Supplemental Table 1

Chromosome	Start	End	TranscriptID	Gene Name
scaffold_1	51423264	51533455	3HIDH_g422.t1	HIBADH
scaffold_1	3624399	3638648	5HT5A_g24.t1	HTR5A
scaffold_1	46969956	47025012	5NT3A_g386.t1	NT5C3A
scaffold_1	31523069	31575969	AASS_g318.t1	AASS
scaffold_1	6725007	6741473	ABCF2_g43.t1	ABCF2
scaffold_1	6722324	6742987	MSTRG.39.1	ABCF2
scaffold_1	5376152	5451499	MSTRG.29.1	ACTR3B
scaffold_1	77607814	77821793	MSTRG.527.2	ADAM22
scaffold_1	15515418	15531623	ADCK2_g194.t1	ADCK2
scaffold_1	108296410	108442046	ADCY1_g729.t1	ADCY1
scaffold_1	109635565	109646229	AEBP1_g748.t1	AEBP1
scaffold_1	40082574	40122960	MSTRG.300.1	AFP
scaffold_1	6799740	6857953	AGAP3_g48.t1	AGAP3
scaffold_1	14743317	14818018	AGK_g190.t1	AGK
scaffold_1	14742391	14818018	MSTRG.116.1	AGK
scaffold_1	14742391	14823393	MSTRG.116.2	AGK
scaffold_1	60270808	60314055	AHR_g483.t1	AHR
scaffold_1	19848975	19849274	MSTRG.166.1	AHRR
scaffold_1	16843672	16995457	MSTRG.145.4	AKAP5
scaffold_1	74286330	74436872	AKAP9_g553.t1	AKAP9
scaffold_1	74027114	74112244	AKIB1_g548.t1	ANKIB1
scaffold_1	21395318	21412043	ALDR_g242.t1	AKR1B1
scaffold_1	60902059	60941378	ANKY2_g486.t1	ANKMY2
scaffold_1	44113547	44168962	ANLN_g371.t1	ANLN
scaffold_1	44112360	44168962	MSTRG.310.1	ANLN
scaffold_1	43879679	44066836	AOAH_g370.t1	AOAH
scaffold_1	95986062	95988197	APC4_g676.t1	ANAPC4
scaffold_1	48630918	48642351	AQP1_g402.t1	AQP1
scaffold_1	27124869	27127405	ARF5_g294.t1	ARF5
scaffold_1	64472288	64472976	ARL4A_g495.t1	ARL4A
scaffold_1	88976421	89008210	ARM10_g623.t1	ARMC10
scaffold_1	5376931	5451499	ARP3B_g31.t1	ACTR3B
scaffold_1	99793538	99793822	ARSB_g694.t1	ARSB
scaffold_1	30315360	30335790	ASB15_g308.t1	ASB15
scaffold_1	71212805	71275861	ASB4_g523.t1	ASB4
scaffold_1	15502473	15510989	MSTRG.117.1	ASCC1
scaffold_1	6891026	6894750	ASIC3_g54.t1	ASIC3
scaffold_1	69283129	69302337	ASNS_g514.t1	ASNS
scaffold_1	69283066	69302337	ASNS_g514.t2	ASNS
scaffold_1	69280007	69302337	MSTRG.456.1	ASNS
scaffold_1	47211479	47270963	AVL9_g393.t1	AVL9
scaffold_1	47206775	47270963	MSTRG.336.1	AVL9
scaffold_1	6868749	6881205	B3A2_g51.t1	SLC4A2

scaffold_1	16843672	16995457	MSTRG.145.3	B3GNT5
scaffold_1	92839909	92888307	BAP29_g650.t1	BCAP29
scaffold_1	46466185	46896279	MSTRG.322.1	BBS9
scaffold_1	92838828	92888307	MSTRG.611.4	BCAP29
scaffold_1	92839045	92888307	MSTRG.611.5	BCAP29
scaffold_1	109867674	109934057	BIEA_g755.t1	BLVRA
scaffold_1	20510984	20511445	MSTRG.178.1	BNC2
scaffold_1	21005947	21034333	MSTRG.196.1	BPGM
scaffold_1	15348829	15491672	BRAF_g192.t1	BRAF
scaffold_1	15348496	15437095	MSTRG.119.1	BRAF
scaffold_1	15348624	15497811	MSTRG.119.2	BRAF
scaffold_1	15348624	15497811	MSTRG.119.3	BRAF
scaffold_1	15348624	15497811	MSTRG.119.4	BRAF
scaffold_1	15438715	15488256	MSTRG.119.6	BRAF
scaffold_1	69107538	69136636	C1GLT_g513.t1	C1GALT1
scaffold_1	55348479	55351673	MSTRG.392.2	AOPEP
scaffold_1	21695320	21695529	MSTRG.203.1	C2ORF76
scaffold_1	51161404	51161844	FBN2_g420.t1	C6ORF118
scaffold_1	53532924	53577975	CG031_g446.t1	SPMIP4
scaffold_1	20595489	20601354	MSTRG.175.1	CYREN
scaffold_1	20595527	20601354	MSTRG.175.2	CYREN
scaffold_1	39340346	39425769	MSTRG.287.1	BMT2
scaffold_1	19442653	19457446	MSTRG.162.1	STMP1
scaffold_1	19444539	19457446	MSTRG.162.2	STMP1
scaffold_1	83201182	83564511	CA2D1_g590.t1	CACNA2D1
scaffold_1	83200786	83704391	MSTRG.538.1	CACNA2D1
scaffold_1	83200786	83535007	MSTRG.538.2	CACNA2D1
scaffold_1	83200827	83412567	MSTRG.538.3	CACNA2D1
scaffold_1	30901927	31400627	MSTRG.265.1	CADPS2
scaffold_1	30901927	31400627	MSTRG.265.2	CADPS2
scaffold_1	20732007	20824453	CALD1_g237.t1	CALD1
scaffold_1	20729659	20932649	MSTRG.202.1	CALD1
scaffold_1	20729663	20912555	MSTRG.202.2	CALD1
scaffold_1	26240839	26258441	CALU_g283.t1	CALU
scaffold_1	31244192	31400627	CAPS2_g315.t1	CAPRIN2
scaffold_1	72014758	72062432	CASD1_g531.t1	CASD1
scaffold_1	72013217	72062432	MSTRG.477.2	CASD1
scaffold_1	13027219	13040217	CASP2_g143.t1	CASP2
scaffold_1	36313330	36318700	CAV2_g339.t1	CAV2
scaffold_1	35941137	35991794	CAZA2_g336.t1	CAPZA2
scaffold_1	92985020	93002317	S26A4_g651.t2	CBLL1
scaffold_1	20632082	20719537	CBPC3_g236.t1	AGBL3
scaffold_1	52640492	52649738	CBX3_g441.t1	CBX3
scaffold_1	52639216	52650968	MSTRG.376.1	CBX3
scaffold_1	52639347	52651481	MSTRG.376.2	CBX3

scaffold_1	26198531	26222318	CC136_g281.t1	CCDC136
scaffold_1	88575276	88671857	CC146_g619.t1	CCDC146
scaffold_1	92049195	92049905	CC71L_g643.t1	CCDC71L
scaffold_1	54897386	54934369	MSTRG.384.1	CCDC126
scaffold_1	108885593	108925088	CCM2_g733.t2	CCM2
scaffold_1	108885170	108937000	MSTRG.699.2	CCM2
scaffold_1	85562470	85620950	MSTRG.552.1	CD36
scaffold_1	85584179	85605592	MSTRG.552.3	CD36
scaffold_1	24420515	24471935	MSTRG.216.4	CD3G
scaffold_1	56313259	56360917	CDA7L_g466.t1	CDCA7L
scaffold_1	73623767	73841178	CDK6_g541.t1	CDK6
scaffold_1	73620414	73851116	MSTRG.485.1	CDK6
scaffold_1	73622959	73851116	MSTRG.485.2	CDK6
scaffold_1	24865978	24917278	CEP41_g257.t1	CEP41
scaffold_1	75743954	75794500	CFA69_g562.t1	CFAP69
scaffold_1	35278099	35445397	CFTR_g333.t1	CFTR
scaffold_1	110682121	110683371	CG025_g761.t1	C7ORF25
scaffold_1	49739811	49877445	DER_g415.t1	CHN2
scaffold_1	49738161	50026861	MSTRG.357.1	CHN2
scaffold_1	6712435	6718119	CHPF2_g42.t1	CHPF2
scaffold_1	70510435	70703375	CMC2_g520.t1	CMC2
scaffold_1	611707	685459	CNDG2_g5.t1	NCAPG2
scaffold_1	19637669	19723852	CNOT4_g227.t1	CNOT4
scaffold_1	19581946	19723852	MSTRG.169.1	CNOT4
scaffold_1	19581946	19723852	MSTRG.169.2	CNOT4
scaffold_1	19581956	19723852	MSTRG.169.3	CNOT4
scaffold_1	19581956	19723852	MSTRG.169.4	CNOT4
scaffold_1	19581956	19723852	MSTRG.169.5	CNOT4
scaffold_1	20126857	20138549	MSTRG.189.1	CNOT4
scaffold_1	20282920	20288299	MSTRG.192.1	CNOT4
scaffold_1	19808406	19809193	MSTRG.165.1	CNTLN
scaffold_1	19677869	19723852	MSTRG.169.8	CNTLN
scaffold_1	8776346	9907184	CNTP2_g101.t1	CNTNAP2
scaffold_1	72137492	72180469	CO1A2_g532.t1	COL1A2
scaffold_1	108230869	108231219	CO4A6_g726.t1	COL4A6
scaffold_1	110044244	110052645	COA1_g756.t1	COA1
scaffold_1	103315750	103528165	COBL_g702.t1	COBL
scaffold_1	103552120	103599603	COBL_g704.t1	COBL
scaffold_1	92460085	92821547	COG5_g647.t1	COG5
scaffold_1	24663690	24805923	COPG2_g255.t1	COPG2
scaffold_1	97296711	97300322	CP046_g683.t1	C16ORF46
scaffold_1	32266158	32432605	CPED1_g323.t1	CPED1
scaffold_1	32266252	32515296	MSTRG.270.2	CPED1
scaffold_1	50089706	50200537	CPVL_g416.t1	CPVL
scaffold_1	50069046	50200537	MSTRG.364.1	CPVL

scaffold_1	50081268	50145017	MSTRG.365.1	CPVL
scaffold_1	17572245	17672962	CR3L2_g216.t1	CREB3L2
scaffold_1	17571856	17678194	MSTRG.157.1	CREB3L2
scaffold_1	17571856	17678194	MSTRG.157.2	CREB3L2
scaffold_1	50283634	50489950	CREB5_g418.t1	CREB5
scaffold_1	24282046	24290069	MSTRG.216.1	CREBBP
scaffold_1	48860406	48890799	CRFR2_g405.t1	CRHR2
scaffold_1	47124725	47125912	CSF2_g390.t1	CSF2
scaffold_1	35073087	35222801	CTTB2_g332.t1	CTTNBP2
scaffold_1	8508957	8576611	CUL1_g100.t1	CUL1
scaffold_1	8508396	8607617	MSTRG.86.2	CUL1
scaffold_1	20597189	20600497	CYREN_g234.t1	CYREN
scaffold_1	45286143	45391069	D19L1_g380.t1	DPY19L1
scaffold_1	77545291	77558926	DAAF9_g568.t1	DNAAF9
scaffold_1	77836280	77866123	DBF4A_g571.t1	DBF4
scaffold_1	109701366	109714265	DBNL_g751.t1	DBNL
scaffold_1	70721712	71040017	DC1I1_g521.t1	DYNC1I1
scaffold_1	421628	487948	DC2I1_g2.t1	DYNC2I1
scaffold_1	104002150	104085804	DDC_g706.t2	DDC
scaffold_1	109217863	109225939	DDX56_g741.t1	DDX56
scaffold_1	6902920	6907531	MSTRG.50.2	RIGI
scaffold_1	14691328	14727322	DEN11_g189.t2	DEN11
scaffold_1	15538146	15644336	DEN2A_g195.t1	DENND2A
scaffold_1	15673744	15692591	DEN2A_g195.t2	DENND2A
scaffold_1	14397196	14400891	MSTRG.107.2	DGKH
scaffold_1	44607507	44608073	DIAP3_g375.t1	DIAPH3
scaffold_1	93140324	93164552	DLDH_g654.t1	DLD
scaffold_1	93140216	93164552	DLDH_g654.t2	DLD
scaffold_1	69914238	69918033	DLX5_g517.t2	DLX5
scaffold_1	78832039	78864655	DMTF1_g580.t1	DMTF1
scaffold_1	78830482	78876695	MSTRG.537.1	DMTF1
scaffold_1	78831994	78876695	MSTRG.537.3	DMTF1
scaffold_1	78841174	78853616	MSTRG.537.5	DMTF1
scaffold_1	1718209	1797372	MSTRG.9.1	DNAJB6
scaffold_1	42964619	42972537	MSTRG.303.1	DNAJB9
scaffold_1	42964619	42972537	MSTRG.303.2	DNAJB9
scaffold_1	89103609	89134537	MSTRG.577.3	DNAJC2
scaffold_1	1719843	1772962	DNJB6_g9.t1	DNAJB6
scaffold_1	42968989	42970635	DNJB9_g364.t1	DNAJB9
scaffold_1	89103258	89134537	DNJC2_g626.t1	DNAJC2
scaffold_1	39958252	40404985	DOCK4_g357.t1	DOCK4
scaffold_1	109628913	109635141	DPOD2_g747.t1	POLD2
scaffold_1	109666078	109674353	DPOLM_g749.t1	POLM
scaffold_1	45285988	45393407	MSTRG.321.1	DPY19L1
scaffold_1	45286014	45393407	MSTRG.321.2	DPY19L1

scaffold_1	45382227	45393407	MSTRG.321.4	DPY19L1
scaffold_1	92826707	92839044	DUS4L_g649.t1	DUS4L
scaffold_1	16843650	16995457	MSTRG.145.2	DUSP16
scaffold_1	44251168	44358466	EEPD1_g373.t1	EEPD1
scaffold_1	44250658	44359356	MSTRG.315.1	EEPD1
scaffold_1	91030494	91039320	EFC10_g637.t1	EFCAB10
scaffold_1	99612462	99651083	MSTRG.655.3	EGFR
scaffold_1	81822101	81823693	MSTRG.532.1	EHF
scaffold_1	78967523	79153818	ELAP2_g581.t1	ELAPOR2
scaffold_1	43313880	43659935	ELMO1_g368.t1	ELMO1
scaffold_1	43710318	43751987	ELMO1_g369.t1	ELMO1
scaffold_1	5507173	5507378	MSTRG.25.1	ENHO
scaffold_1	93881282	93908963	EPDR1_g662.t1	EPDR1
scaffold_1	12935879	12950451	EPHA1_g139.t1	EPHA1
scaffold_1	13399227	13406006	EPHB6_g158.t1	EPHB6
scaffold_1	499983	597165	ESYT2_g3.t1	ESYT2
scaffold_1	499791	597165	MSTRG.1.1	ESYT2
scaffold_1	63311019	63399066	ETV1_g494.t1	ETV1
scaffold_1	26213070	26215927	MSTRG.236.2	EXOC3L4
scaffold_1	21705465	22440806	EXOC4_g245.t1	EXOC4
scaffold_1	8430564	8503800	EZH2_g99.t1	EZH2
scaffold_1	12979537	12986154	F131B_g141.t1	F131B
scaffold_1	73859941	73884006	F133B_g542.t1	FAM133B
scaffold_1	88690758	88781448	F185A_g621.t1	FAM185A
scaffold_1	54837491	54861703	F221A_g455.t1	FAM221A
scaffold_1	26310584	26320842	F71F2_g285.t1	GARIN1A
scaffold_1	108854485	108863068	FAKD4_g731.t1	TBRG4
scaffold_1	55440059	55532759	MSTRG.394.1	FAM126A
scaffold_1	32172510	32208953	FAM3C_g321.t1	FAM3C
scaffold_1	77490587	77512037	FBX42_g566.t1	FBX42
scaffold_1	53329620	53549047	MSTRG.373.2	FCER2
scaffold_1	58692465	58692938	FER3L_g478.t1	FERD3L
scaffold_1	88646953	88651454	FGL2_g620.t1	FGL2
scaffold_1	104098817	104101560	FIGL1_g707.t1	FIGL1
scaffold_1	104095757	104101560	MSTRG.683.1	FIGNL1
scaffold_1	104095898	104101560	MSTRG.683.2	FIGNL1
scaffold_1	104096021	104101560	MSTRG.683.3	FIGNL1
scaffold_1	49434288	49441472	MSTRG.351.2	FKBP4H
scaffold_1	47031940	47074349	FKBP9_g387.t1	FKBP9
scaffold_1	26160625	26188272	FLNC_g280.t1	FLNC
scaffold_1	16576567	16599236	MSTRG.139.1	FOCAD
scaffold_1	16576576	16650989	MSTRG.139.2	FOCAD
scaffold_1	16783779	16790725	MSTRG.143.1	FOCAD
scaffold_1	37957172	38197118	FOXP2_g344.t1	FOXP2
scaffold_1	21699339	21699570	MSTRG.201.1	FREM1

scaffold_1	5988911	6055450	MSTRG.34.1	GALNT11
scaffold_1	29824123	29834476	CO7_g302.t1	GALNT7
scaffold_1	48897415	48939770	GARS_g406.t1	GARS1
scaffold_1	48897262	48939770	MSTRG.341.1	GARS
scaffold_1	73971799	73980257	GATD1_g546.t1	GATD1
scaffold_1	72635351	72640203	GBG11_g533.t1	GNG11
scaffold_1	27130779	27133986	GCC1_g295.t1	GCC1
scaffold_1	27130764	27133986	GCC1_g295.t2	GCC1
scaffold_1	106280450	106282294	GEMI5_g715.t1	GEMI5
scaffold_1	49000842	49007874	GGCT_g407.t1	GGCT
scaffold_1	32250940	32251338	MSTRG.264.1	GHSR
scaffold_1	68362174	68769876	MSTRG.446.2	GLCCI1
scaffold_1	68362174	68745868	MSTRG.446.3	GLCCI1
scaffold_1	68364717	68473166	GLCI1_g507.t1	GLCCI1
scaffold_1	98179114	98438313	GLI3_g687.t1	GLI3
scaffold_1	5990111	6022372	GLT11_g35.t1	GLT11
scaffold_1	85986580	86066135	GNAI1_g608.t1	GNAI1
scaffold_1	43013979	43014887	GP141_g366.t1	GP141
scaffold_1	55224800	55249580	GPNMB_g460.t1	GPNMB
scaffold_1	92730410	92733541	GPR22_g648.t1	GPR22
scaffold_1	103838222	103972554	GRB10_g705.t1	GRB10
scaffold_1	79161869	79251905	GRM3_g582.t1	GRM3
scaffold_1	27370161	27377565	GRM8_g297.t1	GRM8
scaffold_1	27484954	28086586	GRM8_g298.t1	GRM8
scaffold_1	88487509	88568179	GSAP_g618.t1	GSAP
scaffold_1	88531885	88568179	MSTRG.566.2	GSAP
scaffold_1	53953870	54002318	GSDME_g449.t1	GSDME
scaffold_1	52661011	52666917	GTD2B_g443.t1	GTF2IRD2B
scaffold_1	75692024	75713813	GTPBA_g561.t1	GTPBA
scaffold_1	109027279	109042195	H2AV_g736.t1	H2AZ2
scaffold_1	6741474	6743948	H2BE1_g44.t1	H2BE1
scaffold_1	18164652	18164853	MSTRG.152.1	HAUS6
scaffold_1	92431913	92459096	HBP1_g646.t1	HBP1
scaffold_1	58807067	59374447	HDAC9_g480.t1	HDAC9
scaffold_1	110146535	110548709	HECW1_g758.t1	HECW1
scaffold_1	44697124	44740270	HERP2_g376.t1	HERP2
scaffold_1	44696520	44740270	MSTRG.318.2	HERPUD2
scaffold_1	44696326	44740270	MSTRG.318.1	HERPUD2
scaffold_1	84138583	84180765	HGF_g592.t1	HGF
scaffold_1	83942438	83942762	MSTRG.541.1	HGF
scaffold_1	16216377	16405077	MSTRG.132.2	HIPK2
scaffold_1	34873423	34873680	PKD1_g331.t1	HMBOX1
scaffold_1	52651612	52667265	MSTRG.377.4	HNRNPA2B1
scaffold_1	52651544	52667265	MSTRG.377.1	HNRNPA2B1
scaffold_1	52651544	52660842	MSTRG.377.2	HNRNPA2B1

scaffold_1	52651544	52667265	MSTRG.377.3	HNRNPA2B1
scaffold_1	52652166	52666917	MSTRG.377.5	HNRNPA2B1
scaffold_1	52661011	52666917	MSTRG.377.7	HNRNPA2B1
scaffold_1	5716980	5717459	MSTRG.37.1	HSP90AB1
scaffold_1	3622877	3673919	MSTRG.19.1	HTR5A
scaffold_1	3636685	3673919	MSTRG.19.3	HTR5A
scaffold_1	106377803	106391816	HUS1_g718.t1	HUS1
scaffold_1	55485964	55529032	HYCCI_g463.t1	HYCC1
scaffold_1	108257541	108261857	IBP1_g728.t2	IGFBP1
scaffold_1	68227326	68347667	ICA69_g506.t1	ICA69
scaffold_1	19805780	19806110	MSTRG.163.1	ICE2
scaffold_1	55045975	55190444	IF2B3_g458.t1	IF2B3
scaffold_1	16478745	16544009	MSTRG.137.1	IFNA2
scaffold_1	16478745	16544009	MSTRG.137.2	IFNA2
scaffold_1	16216377	16405077	MSTRG.132.1	IFNWP2
scaffold_1	39730469	39752841	IFRD1_g353.t1	IFRD1
scaffold_1	39728128	39752841	MSTRG.292.1	IFRD1
scaffold_1	16664193	16711043	IFT56_g207.t1	IFT56
scaffold_1	99360810	99362363	ILDR2_g691.t1	ILDR2
scaffold_1	26379704	26395495	IMDH1_g286.t1	IMDH1
scaffold_1	40510503	40896254	IMP2L_g358.t1	IMP2L
scaffold_1	26379619	26396157	MSTRG.241.2	IMPDH1
scaffold_1	26379619	26396157	MSTRG.241.1	IMPDH1
scaffold_1	26379620	26396157	MSTRG.241.3	IMPDH1
scaffold_1	32527278	32550398	ING3_g325.t1	ING3
scaffold_1	97930295	97949073	MSTRG.651.1	INHBA
scaffold_1	97935463	97946214	INHBA_g685.t1	INHBA
scaffold_1	32533050	32541512	MSTRG.269.2	INPP4A
scaffold_1	3469905	3484601	MSTRG.20.1	INSIG1
scaffold_1	3476646	3484601	MSTRG.20.3	INSIG1
scaffold_1	26086757	26097334	IRF5_g275.t1	IRF5
scaffold_1	53589873	53593015	MSTRG.375.1	ISCA1
scaffold_1	53589997	53593015	MSTRG.375.2	ISCA1
scaffold_1	61135913	61354823	ISPD_g490.t1	CRPPA
scaffold_1	61083890	61245885	MSTRG.424.3	CRPPA
scaffold_1	57660763	57745955	MSTRG.403.1	ITGB8
scaffold_1	13242650	13243918	FV1_g150.t1	IZUMO3
scaffold_1	50957047	51280837	MSTRG.366.1	JAZF1
scaffold_1	16843634	16995457	K1549_g210.t2	KIAA1549
scaffold_1	47171759	47183036	KBTB2_g392.t1	KBTB2
scaffold_1	47161638	47183036	MSTRG.334.2	KBTBD2
scaffold_1	47161520	47183036	MSTRG.334.1	KBTBD2
scaffold_1	109428481	109520937	KCC2B_g743.t1	KCC2B
scaffold_1	32706982	32842800	KCND2_g327.t1	KCND2
scaffold_1	32723082	33177508	MSTRG.272.2	KCND2

scaffold_1	6985677	6989266	KCNH2_g58.t2	KCNH2
scaffold_1	6956090	6985164	MSTRG.53.1	KCNH2
scaffold_1	19978869	20048450	MSTRG.186.10	KCNQ1
scaffold_1	26116336	26142623	KCP_g276.t1	KCP
scaffold_1	15884499	15963084	KDM7A_g198.t2	KDM7A
scaffold_1	15884433	15967583	MSTRG.127.1	KDM7A
scaffold_1	13320644	13340096	KELL_g153.t1	KELL
scaffold_1	5727128	5727895	MSTRG.38.1	KIF24
scaffold_1	18159017	18159230	MSTRG.151.1	KIRREL3
scaffold_1	25118107	25170302	KLD10_g266.t1	KLD10
scaffold_1	24605645	24606628	KLF14_g253.t1	KLF14
scaffold_1	25113057	25130332	MSTRG.223.1	KLHDC10
scaffold_1	25113117	25170302	MSTRG.223.2	KLHDC10
scaffold_1	55311362	55378945	KLHL7_g462.t1	KLHL7
scaffold_1	55348877	55365290	MSTRG.392.3	KLHL7
scaffold_1	16460067	16476925	KLRG2_g203.t1	KLRG2
scaffold_1	5699530	5976387	KMT2C_g34.t1	KMT2C
scaffold_1	5699283	5976387	MSTRG.36.1	KMT2C
scaffold_1	5699283	5976387	MSTRG.36.2	KMT2C
scaffold_1	5699284	5976387	MSTRG.36.3	KMT2C
scaffold_1	90583621	90649015	KMT2E_g633.t1	KMT2E
scaffold_1	90562100	90649015	MSTRG.586.2	KMT2E
scaffold_1	7895071	7910644	KRBA1_g89.t1	KRBA1
scaffold_1	7892829	7917494	MSTRG.65.2	KRBA1
scaffold_1	74169091	74201966	KRIT1_g549.t1	KRIT1
scaffold_1	74164150	74201966	MSTRG.490.2	KRIT1
scaffold_1	74164463	74201966	MSTRG.490.3	KRIT1
scaffold_1	93277691	93401726	LAMB1_g655.t2	LAMB1
scaffold_1	93258742	93277690	LAMB4_g656.t1	LAMB4
scaffold_1	93353424	93360422	LAMB4_g657.t1	LAMB4
scaffold_1	93294701	93300544	MSTRG.617.2	LAMB4
scaffold_1	93353424	93369702	MSTRG.617.6	LAMB4
scaffold_1	94850638	94850925	LAP2A_g668.t1	LAP2A
scaffold_1	16486274	16544009	LC7L2_g204.t1	LC7L2
scaffold_1	16555102	16559321	LC7L2_g204.t2	LC7L2
scaffold_1	13340816	13341729	LCFC1_g154.t1	LCFC1
scaffold_1	19357036	19362267	LDB3_g223.t1	LDB3
scaffold_1	90330260	90477086	LHPL3_g632.t1	LHPL3
scaffold_1	106073983	106074185	MSTRG.681.1	LIPK
scaffold_1	2152712	2309536	LMBR1_g13.t1	LMBR1
scaffold_1	2310898	2311156	MSTRG.14.1	LMBR1
scaffold_1	4867439	4867724	MSTRG.21.1	LMBR1
scaffold_1	64621674	64634904	MSTRG.432.2	LOC102150213
scaffold_1	20542265	20542483	MSTRG.180.1	LOC111770601
scaffold_1	13234882	13235829	OR6V1_g149.t1	LRFN2

scaffold_1	21564273	21667280	LRGUK_g244.t1	LRGUK
scaffold_1	21564273	21667418	LRGUK_g244.t2	LRGUK
scaffold_1	74221945	74248680	LRRD1_g550.t1	LRRD1
scaffold_1	40923272	40925257	LRRN3_g359.t1	LRRN3
scaffold_1	40923272	40925398	LRRN3_g359.t2	LRRN3
scaffold_1	47276075	47279731	LSM5_g394.t1	LSM5
scaffold_1	34793696	34800439	LSM8_g329.t1	LSM8
scaffold_1	34791027	34800439	MSTRG.273.1	LSM8
scaffold_1	57921972	57941559	MACC1_g474.t1	MACC1
scaffold_1	55191987	55202427	MSTRG.391.1	MALSU1
scaffold_1	55193234	55202427	MSTRG.391.3	MALSU1
scaffold_1	39754727	39769436	MAS_g354.t1	MAS
scaffold_1	55192604	55202427	MASU1_g459.t1	MALSU1
scaffold_1	37666222	37758996	MSTRG.284.2	MDFIC
scaffold_1	37666222	37758996	MSTRG.284.1	MDFIC
scaffold_1	37666322	37758996	MSTRG.284.3	MDFIC
scaffold_1	37666322	37758765	MSTRG.284.4	MDFIC
scaffold_1	37666431	37737304	MSTRG.284.5	MDFIC
scaffold_1	78491072	78581216	MDR1_g575.t1	ABCB1
scaffold_1	24807227	24819153	MEST_g256.t1	MEST
scaffold_1	24806759	24825030	MSTRG.219.1	MEST
scaffold_1	22585636	22853683	MIC19_g247.t1	MIC19
scaffold_1	48662636	48774223	MINY4_g403.t1	MINY4
scaffold_1	68790274	68830913	MSTRG.449.1	MIOS
scaffold_1	68790323	68830913	MSTRG.449.2	MIOS
scaffold_1	6898858	6913648	MITOS_g55.t1	MITOS
scaffold_1	23961568	24155547	MSTRG.212.1	MKLN1
scaffold_1	24059880	24080534	MSTRG.212.3	MKLN1
scaffold_1	17177070	17177282	MSTRG.146.1	MLLT3
scaffold_1	74473735	74474175	MPDZ_g554.t2	MPDZ
scaffold_1	96421675	96423516	MPLKI_g680.t1	MPLKI
scaffold_1	54009077	54115275	MSTRG.385.1	MPP6
scaffold_1	89087249	89102945	MPPB_g625.t1	PMPCB
scaffold_1	78126652	78532228	MSTRG.534.1	ABCC1
scaffold_1	15278606	15291179	MSTRG.115.1	MTAP
scaffold_1	74478960	74480451	MTEF1_g555.t1	MTEF1
scaffold_1	19162448	19218336	MTPN_g222.t1	MTPN
scaffold_1	49313316	49336150	MTURN_g410.t1	MTURN
scaffold_1	49307660	49335738	MSTRG.350.1	MTURN
scaffold_1	100090816	100091124	MYD88_g697.t1	MYD88
scaffold_1	108951823	108971447	MYO1G_g734.t1	MYO1G
scaffold_1	91628060	91661843	NAMPT_g641.t1	NAMPT
scaffold_1	89011785	89031288	NAPEP_g624.t1	NAPEPLD
scaffold_1	89010528	89010852	MSTRG.574.1	NAPEPLD
scaffold_1	609464	685459	MSTRG.4.1	NCAPG2

scaffold_1	66026916	66033359	NDUA4_g504.t1	NDUA4
scaffold_1	15503735	15510989	NDUB2_g193.t1	NDUB2
scaffold_1	30374311	30390526	MSTRG.261.1	NDUFA5
scaffold_1	71445083	71761920	NEB1_g527.t1	NEB1
scaffold_1	73902284	73911909	MSTRG.486.2	NECAB1
scaffold_1	52667263	52698225	NF2L3_g444.t1	NFE2L3
scaffold_1	25191355	25207058	NIPA_g267.t1	NIPA
scaffold_1	25191181	25207058	NIPA_g267.t2	NIPA
scaffold_1	47220941	47248460	MSTRG.336.3	NLRP1
scaffold_1	12017942	12023869	NOBOX_g103.t1	NOBOX
scaffold_1	49040705	49073913	NOD1_g408.t1	NOD1
scaffold_1	2102172	2117303	NOM1_g12.t1	NOM1
scaffold_1	6924564	6942862	NOS3_g57.t1	NOS3
scaffold_1	6244713	6451209	AAKG2_g37.t1	AAKG2_g37.t1
scaffold_1	16783931	16790725	DUT_g209.t1	DUT_g209.t1
scaffold_1	95050260	95050841	DUT_g672.t1	DUT_g672.t1
scaffold_1	6867707	6868514	FASTK_g50.t2	FASTK_g50.t2
scaffold_1	95045827	95047332	FV1_g671.t1	FV1_g671.t1
scaffold_1	39215414	39217844	GPR85_g347.t1	GPR85_g347.t1
scaffold_1	55678725	55683698	IL6_g464.t1	IL6_g464.t1
scaffold_1	92316806	92421975	KAP3_g645.t1	KAP3_g645.t1
scaffold_1	81841685	81843195	LRC20_g587.t1	LRC20_g587.t1
scaffold_1	13025095	13028162	MSTRG.102.1	MSTRG.102.1
scaffold_1	13054970	13055972	MSTRG.103.1	MSTRG.103.1
scaffold_1	13048913	13049123	MSTRG.104.1	MSTRG.104.1
scaffold_1	14636106	14652913	MSTRG.106.1	MSTRG.106.1
scaffold_1	14670561	14670779	MSTRG.109.1	MSTRG.109.1
scaffold_1	2100351	2101177	MSTRG.11.1	MSTRG.11.1
scaffold_1	15268977	15269529	MSTRG.112.1	MSTRG.112.1
scaffold_1	15292069	15292412	MSTRG.114.1	MSTRG.114.1
scaffold_1	15669995	15670229	MSTRG.120.1	MSTRG.120.1
scaffold_1	15671377	15671616	MSTRG.121.1	MSTRG.121.1
scaffold_1	15670685	15670911	MSTRG.122.1	MSTRG.122.1
scaffold_1	15672894	15673119	MSTRG.123.1	MSTRG.123.1
scaffold_1	15728073	15769630	MSTRG.126.1	MSTRG.126.1
scaffold_1	15728073	15769630	MSTRG.126.2	MSTRG.126.2
scaffold_1	15728094	15769630	MSTRG.126.3	MSTRG.126.3
scaffold_1	15728094	15769630	MSTRG.126.4	MSTRG.126.4
scaffold_1	15728115	15769630	MSTRG.126.5	MSTRG.126.5
scaffold_1	15931662	15935819	MSTRG.127.4	MSTRG.127.4
scaffold_1	16012760	16012982	MSTRG.129.1	MSTRG.129.1
scaffold_1	16051831	16052046	MSTRG.131.1	MSTRG.131.1
scaffold_1	16469332	16469541	MSTRG.134.1	MSTRG.134.1
scaffold_1	16470648	16470854	MSTRG.135.1	MSTRG.135.1
scaffold_1	16479736	16544009	MSTRG.137.3	MSTRG.137.3

scaffold_1	16532215	16544009	MSTRG.137.6	MSTRG.137.6
scaffold_1	16561268	16561493	MSTRG.138.1	MSTRG.138.1
scaffold_1	16576581	16650989	MSTRG.139.3	MSTRG.139.3
scaffold_1	16755471	16763706	MSTRG.142.1	MSTRG.142.1
scaffold_1	16755573	16763706	MSTRG.142.2	MSTRG.142.2
scaffold_1	17181279	17181571	MSTRG.147.1	MSTRG.147.1
scaffold_1	17042309	17091617	MSTRG.148.2	MSTRG.148.2
scaffold_1	17678631	17678835	MSTRG.150.1	MSTRG.150.1
scaffold_1	18345445	18345650	MSTRG.154.1	MSTRG.154.1
scaffold_1	18684809	18685023	MSTRG.155.1	MSTRG.155.1
scaffold_1	19346109	19346344	MSTRG.159.1	MSTRG.159.1
scaffold_1	19579628	19581982	MSTRG.168.2	MSTRG.168.2
scaffold_1	19582122	19723852	MSTRG.169.6	MSTRG.169.6
scaffold_1	2367650	2367914	MSTRG.17.1	MSTRG.17.1
scaffold_1	3667071	3673919	MSTRG.19.5	MSTRG.19.5
scaffold_1	21351119	21351351	MSTRG.206.1	MSTRG.206.1
scaffold_1	24508400	24508613	MSTRG.213.1	MSTRG.213.1
scaffold_1	24282504	24489570	MSTRG.216.2	MSTRG.216.2
scaffold_1	24423248	24471935	MSTRG.216.5	MSTRG.216.5
scaffold_1	24430115	24452751	MSTRG.216.6	MSTRG.216.6
scaffold_1	26335350	26337261	MSTRG.237.1	MSTRG.237.1
scaffold_1	26335353	26337261	MSTRG.237.2	MSTRG.237.2
scaffold_1	32398805	32425474	MSTRG.270.3	MSTRG.270.3
scaffold_1	32160365	32209181	MSTRG.271.2	MSTRG.271.2
scaffold_1	36064606	36064824	MSTRG.279.1	MSTRG.279.1
scaffold_1	36479672	36479883	MSTRG.283.1	MSTRG.283.1
scaffold_1	39236071	39236271	MSTRG.289.1	MSTRG.289.1
scaffold_1	39213563	39217844	MSTRG.291.1	MSTRG.291.1
scaffold_1	41367702	41367906	MSTRG.295.1	MSTRG.295.1
scaffold_1	43414753	43414964	MSTRG.306.1	MSTRG.306.1
scaffold_1	43515997	43516212	MSTRG.307.1	MSTRG.307.1
scaffold_1	43558049	43558249	MSTRG.308.1	MSTRG.308.1
scaffold_1	5556413	5556634	MSTRG.31.1	MSTRG.31.1
scaffold_1	44802249	44802474	MSTRG.313.1	MSTRG.313.1
scaffold_1	45743405	45794073	MSTRG.320.1	MSTRG.320.1
scaffold_1	46600004	46600232	MSTRG.323.1	MSTRG.323.1
scaffold_1	47081903	47115146	MSTRG.327.2	MSTRG.327.2
scaffold_1	47002585	47017834	MSTRG.330.3	MSTRG.330.3
scaffold_1	47117873	47118088	MSTRG.333.1	MSTRG.333.1
scaffold_1	49223299	49223515	MSTRG.346.1	MSTRG.346.1
scaffold_1	49515091	49515295	MSTRG.353.1	MSTRG.353.1
scaffold_1	50751867	50752316	MSTRG.360.1	MSTRG.360.1
scaffold_1	50238600	50238978	MSTRG.361.1	MSTRG.361.1
scaffold_1	50239211	50241212	MSTRG.362.1	MSTRG.362.1
scaffold_1	57363289	57363513	MSTRG.401.1	MSTRG.401.1

scaffold_1	60823009	60823238	MSTRG.416.1	MSTRG.416.1
scaffold_1	64284936	64285144	MSTRG.421.1	MSTRG.421.1
scaffold_1	64326352	64326557	MSTRG.422.1	MSTRG.422.1
scaffold_1	65490528	65490731	MSTRG.438.1	MSTRG.438.1
scaffold_1	73606302	73606503	MSTRG.480.1	MSTRG.480.1
scaffold_1	76817062	76817276	MSTRG.505.1	MSTRG.505.1
scaffold_1	77015680	77015952	MSTRG.514.1	MSTRG.514.1
scaffold_1	77074544	77075211	MSTRG.516.1	MSTRG.516.1
scaffold_1	77866372	77930370	MSTRG.529.3	MSTRG.529.3
scaffold_1	83722968	83736506	MSTRG.542.1	MSTRG.542.1
scaffold_1	88976290	89008210	MSTRG.576.2	MSTRG.576.2
scaffold_1	88976318	89008210	MSTRG.576.3	MSTRG.576.3
scaffold_1	92962545	92984976	MSTRG.606.1	MSTRG.606.1
scaffold_1	93605795	93606024	MSTRG.614.1	MSTRG.614.1
scaffold_1	95889486	95889686	MSTRG.631.1	MSTRG.631.1
scaffold_1	103819415	103819623	MSTRG.679.1	MSTRG.679.1
scaffold_1	103849723	103850130	MSTRG.680.1	MSTRG.680.1
scaffold_1	108282915	108442046	MSTRG.691.2	MSTRG.691.2
scaffold_1	109959141	110053314	MSTRG.733.2	MSTRG.733.2
scaffold_1	110691043	110691255	MSTRG.737.1	MSTRG.737.1
scaffold_1	8430575	8503800	MSTRG.78.2	MSTRG.78.2
scaffold_1	10436329	10436560	MSTRG.79.1	MSTRG.79.1
scaffold_1	10437019	10437232	MSTRG.80.1	MSTRG.80.1
scaffold_1	10544286	10544495	MSTRG.81.1	MSTRG.81.1
scaffold_1	10526606	10526836	MSTRG.83.1	MSTRG.83.1
scaffold_1	11191608	11191809	MSTRG.85.1	MSTRG.85.1
scaffold_1	68769573	68769839	NR2C1_g509.t1	NR2C1_g509.t1
scaffold_1	78787162	78789911	PGBD1_g578.t1	PGBD1_g578.t1
scaffold_1	812948	813769	PTPRG_g7.t1	PTPRG_g7.t1
scaffold_1	6473900	6520392	RHEB_g38.t1	RHEB_g38.t1
scaffold_1	14147564	14149253	SOX30_g173.t1	SOX30_g173.t1
scaffold_1	14643566	14652206	SSBP_g187.t1	SSBP_g187.t1
scaffold_1	30004610	30005758	T229A_g303.t2	T229A_g303.t2
scaffold_1	5689208	5690878	TCPQM_g33.t1	TCPQM_g33.t1
scaffold_1	13041820	13042669	TM139_g144.t1	TM139_g144.t1
scaffold_1	20601356	20601913	TM140_g235.t1	TM140_g235.t1
scaffold_1	7729606	7732903	ZB6CL_g85.t1	ZB6CL_g85.t1
scaffold_1	17684372	17684594	MSTRG.158.1	NOTHING
scaffold_1	19806678	19806885	MSTRG.164.1	NOTHING
scaffold_1	19580305	19582156	MSTRG.168.3	NOTHING
scaffold_1	19667929	19672269	MSTRG.170.1	NOTHING
scaffold_1	20603728	20604471	MSTRG.172.1	NOTHING
scaffold_1	20509221	20509526	MSTRG.174.1	NOTHING
scaffold_1	20595596	20597427	MSTRG.175.3	NOTHING
scaffold_1	20605078	20605370	MSTRG.177.1	NOTHING

scaffold_1	2152595	2310575	MSTRG.18.1	NOTHING
scaffold_1	2152599	2310575	MSTRG.18.2	NOTHING
scaffold_1	2152715	2309536	MSTRG.18.4	NOTHING
scaffold_1	2152715	2309536	MSTRG.18.5	NOTHING
scaffold_1	2152715	2277290	MSTRG.18.6	NOTHING
scaffold_1	20656041	20656253	MSTRG.183.1	NOTHING
scaffold_1	19930764	19987205	MSTRG.186.1	NOTHING
scaffold_1	20293885	20310822	MSTRG.186.12	NOTHING
scaffold_1	19969938	20325563	MSTRG.186.9	NOTHING
scaffold_1	19967481	19969660	MSTRG.187.1	NOTHING
scaffold_1	20198786	20199167	MSTRG.190.1	NOTHING
scaffold_1	20245701	20262403	MSTRG.191.1	NOTHING
scaffold_1	20245701	20262403	MSTRG.191.2	NOTHING
scaffold_1	20293885	20442730	MSTRG.193.1	NOTHING
scaffold_1	20401611	20408552	MSTRG.194.1	NOTHING
scaffold_1	21537708	21538008	MSTRG.197.1	NOTHING
scaffold_1	21416272	21416669	MSTRG.198.1	NOTHING
scaffold_1	21538442	21540580	MSTRG.199.1	NOTHING
scaffold_1	24208888	24280869	MSTRG.215.1	NOTHING
scaffold_1	24208971	24280869	MSTRG.215.2	NOTHING
scaffold_1	24209064	24260170	MSTRG.215.3	NOTHING
scaffold_1	24266483	24280869	MSTRG.215.4	NOTHING
scaffold_1	24271877	24280869	MSTRG.215.5	NOTHING
scaffold_1	24319062	24321884	MSTRG.217.1	NOTHING
scaffold_1	24339114	24353552	MSTRG.218.1	NOTHING
scaffold_1	25187360	25187706	MSTRG.222.1	NOTHING
scaffold_1	25328684	25364395	MSTRG.225.3	NOTHING
scaffold_1	25299707	25308228	MSTRG.226.1	NOTHING
scaffold_1	25322061	25396803	MSTRG.227.1	NOTHING
scaffold_1	26224955	26225499	MSTRG.232.1	NOTHING
scaffold_1	26230023	26230264	MSTRG.234.1	NOTHING
scaffold_1	26232583	26232851	MSTRG.235.1	NOTHING
scaffold_1	5546732	5546946	MSTRG.24.1	NOTHING
scaffold_1	26631663	26637865	MSTRG.242.1	NOTHING
scaffold_1	26642072	26642403	MSTRG.244.1	NOTHING
scaffold_1	26430127	26435095	MSTRG.245.1	NOTHING
scaffold_1	26644952	26645971	MSTRG.246.1	NOTHING
scaffold_1	26991274	27087702	MSTRG.251.1	NOTHING
scaffold_1	27134499	27134798	MSTRG.252.1	NOTHING
scaffold_1	29722242	29722457	MSTRG.257.1	NOTHING
scaffold_1	30176009	30204559	MSTRG.258.1	NOTHING
scaffold_1	30176416	30204559	MSTRG.258.2	NOTHING
scaffold_1	3485359	3485567	MSTRG.26.1	NOTHING
scaffold_1	30279763	30285877	MSTRG.260.1	NOTHING
scaffold_1	32249721	32249925	MSTRG.263.1	NOTHING

scaffold_1	32615013	32615224	MSTRG.268.1	NOTHING
scaffold_1	4915992	4916241	MSTRG.27.1	NOTHING
scaffold_1	32160304	32209181	MSTRG.271.1	NOTHING
scaffold_1	32161485	32209181	MSTRG.271.3	NOTHING
scaffold_1	35938449	35938676	MSTRG.276.1	NOTHING
scaffold_1	5552679	5552882	MSTRG.28.1	NOTHING
scaffold_1	35696248	35746462	MSTRG.280.6	NOTHING
scaffold_1	35892566	35901132	MSTRG.281.1	NOTHING
scaffold_1	39188724	39190669	MSTRG.288.1	NOTHING
scaffold_1	39212569	39213367	MSTRG.290.1	NOTHING
scaffold_1	40405347	40405600	MSTRG.294.1	NOTHING
scaffold_1	40099026	40404985	MSTRG.296.2	NOTHING
scaffold_1	40099068	40404985	MSTRG.296.3	NOTHING
scaffold_1	40050877	40051264	MSTRG.297.1	NOTHING
scaffold_1	40063295	40064358	MSTRG.298.1	NOTHING
scaffold_1	40066346	40069871	MSTRG.299.1	NOTHING
scaffold_1	40199069	40208605	MSTRG.301.1	NOTHING
scaffold_1	43752848	43753056	MSTRG.302.1	NOTHING
scaffold_1	42968747	42972537	MSTRG.303.3	NOTHING
scaffold_1	44174450	44223480	MSTRG.309.1	NOTHING
scaffold_1	44770854	44771070	MSTRG.314.1	NOTHING
scaffold_1	44335025	44340031	MSTRG.316.1	NOTHING
scaffold_1	44800656	44800876	MSTRG.317.1	NOTHING
scaffold_1	44753267	44753497	MSTRG.319.1	NOTHING
scaffold_1	45790824	45794073	MSTRG.320.2	NOTHING
scaffold_1	46873643	46873873	MSTRG.325.1	NOTHING
scaffold_1	47185572	47185775	MSTRG.331.1	NOTHING
scaffold_1	47198055	47198265	MSTRG.332.1	NOTHING
scaffold_1	49060845	49069048	MSTRG.339.1	NOTHING
scaffold_1	49074306	49074598	MSTRG.340.1	NOTHING
scaffold_1	49096583	49096815	MSTRG.343.1	NOTHING
scaffold_1	49106006	49106221	MSTRG.344.1	NOTHING
scaffold_1	49086563	49086778	MSTRG.345.1	NOTHING
scaffold_1	49268498	49268701	MSTRG.347.1	NOTHING
scaffold_1	49280037	49280269	MSTRG.348.1	NOTHING
scaffold_1	49720744	49720961	MSTRG.356.1	NOTHING
scaffold_1	50752703	50752954	MSTRG.359.1	NOTHING
scaffold_1	50957047	50959464	MSTRG.366.2	NOTHING
scaffold_1	51410141	51410351	MSTRG.370.1	NOTHING
scaffold_1	59453468	59461984	MSTRG.407.1	NOTHING
scaffold_1	59462274	59471235	MSTRG.409.1	NOTHING
scaffold_1	59482012	59609913	MSTRG.412.1	NOTHING
scaffold_1	59472865	59481704	MSTRG.410.1	NOTHING
scaffold_1	53314618	53549047	MSTRG.373.1	NPVF
scaffold_1	93404592	93483441	NRCAM_g658.t1	NRCAM

scaffold_1	25431488	25562349	MSTRG.228.1	NRF1
scaffold_1	25432086	25562349	MSTRG.228.2	NRF1
scaffold_1	25432086	25562349	MSTRG.228.3	NRF1
scaffold_1	25433948	25515020	NRF1_g269.t1	NRF1
scaffold_1	2351802	2352017	MSTRG.16.1	NSUN6
scaffold_1	46969927	47025012	MSTRG.330.1	NT5C3A
scaffold_1	19468223	19552646	NU205_g226.t1	NU205
scaffold_1	6602670	6611978	MSTRG.46.3	NUB1
scaffold_1	6602815	6629526	NUB1_g40.t1	NUB1
scaffold_1	109299645	109391981	NUDC3_g742.t1	NUDCD3
scaffold_1	19467669	19495846	MSTRG.167.1	NUP205
scaffold_1	19467726	19514034	MSTRG.167.2	NUP205
scaffold_1	19552863	19582461	MSTRG.168.1	NUP205
scaffold_1	55291208	55304329	NUP42_g461.t1	NUP42
scaffold_1	55290072	55304329	MSTRG.390.1	NUPL2
scaffold_1	67782719	68061770	NXPH1_g505.t1	NXPH1
scaffold_1	109120603	109200349	ODO1_g739.t1	ODO1
scaffold_1	26235164	26268056	MSTRG.240.1	OPN1SW
scaffold_1	26235164	26268056	MSTRG.240.2	OPN1SW
scaffold_1	26234034	26237157	OPSB_g282.t1	OPSB
scaffold_1	12078948	12079889	OR2A1_g105.t1	OR2A1
scaffold_1	12099043	12099669	OR2A1_g106.t1	OR2A1
scaffold_1	12118483	12119013	OR2A7_g108.t1	OR2A7
scaffold_1	13250602	13251543	OR6V1_g151.t1	OR6V1
scaffold_1	53706479	53898859	MSTRG.381.1	OSBPL3
scaffold_1	53706521	53896662	MSTRG.381.2	OSBPL3
scaffold_1	15981513	16017714	PAR12_g199.t1	PAR12
scaffold_1	3674410	3728150	PAXI1_g26.t1	PAXI1
scaffold_1	3692523	3729264	MSTRG.32.3	PAXIP1
scaffold_1	3674320	3729264	MSTRG.32.1	PAXIP1
scaffold_1	82523012	82917080	PCLO_g589.t1	PCLO
scaffold_1	47637467	47924184	PDE1C_g396.t1	PDE1C
scaffold_1	51357734	51369600	MSTRG.369.1	PDGFRA
scaffold_1	8311696	8333255	PDIA4_g98.t1	PDIA4
scaffold_1	71154623	71166920	PDK4_g522.t1	PDK4
scaffold_1	71897122	71910017	MSTRG.472.1	PEG10
scaffold_1	71901319	71902463	PEG10_g528.t1	PEG10
scaffold_1	73912050	73954510	PEX1_g545.t1	PEX1
scaffold_1	109696919	109699464	PGAM2_g750.t1	PGAM2
scaffold_1	47123443	47124303	PGAP6_g389.t1	PGAP6
scaffold_1	15278042	15278296	MSTRG.111.1	PGBP
scaffold_1	67685279	67685499	MSTRG.441.1	PGBP
scaffold_1	65826863	65886434	MSTRG.444.2	PHF14
scaffold_1	65826971	66022979	PHF14_g503.t1	PHF14
scaffold_1	88023449	88117031	PHTF2_g613.t1	PHTF2

scaffold_1	106400036	106542752	PK1L1_g719.t1	PKD1L1
scaffold_1	92180834	92209676	PK3CG_g644.t1	PK3CG
scaffold_1	92180768	92209676	PK3CG_g644.t2	PK3CG
scaffold_1	49381535	49428134	PKHA8_g411.t1	PLEKHA8
scaffold_1	93694750	93732136	PLPL8_g659.t1	PNPLA8
scaffold_1	23111776	23475558	PLXA4_g249.t1	PLXA4
scaffold_1	19918038	19918239	MSTRG.185.1	PLXDC2
scaffold_1	23036536	23482188	MSTRG.210.1	PLXNA4
scaffold_1	21006513	21022093	PMGE_g238.t1	PMGE
scaffold_1	16394173	16394526	PO121_g201.t1	PO121
scaffold_1	95527186	95958308	PO6F2_g675.t1	PO6F2
scaffold_1	23914121	23954745	PODXL_g250.t1	PODXL
scaffold_1	71406608	71439239	PON1_g526.t1	PON1
scaffold_1	71323378	71349825	PON2_g524.t1	PON2
scaffold_1	71362941	71386396	PON3_g525.t1	PON3
scaffold_1	29312350	29402424	MSTRG.259.1	POT1
scaffold_1	29312472	29401609	MSTRG.259.2	POT1
scaffold_1	29312510	29324057	MSTRG.259.3	POT1
scaffold_1	29313368	29401609	POTE1_g300.t1	POT1
scaffold_1	47973374	48014826	PPR17_g397.t1	PPR17
scaffold_1	38572175	38607512	PPR3A_g345.t1	PPR3A
scaffold_1	6355057	6452096	MSTRG.35.2	PRKAG2
scaffold_1	59731294	59732250	PRPS1_g481.t1	PRPS1
scaffold_1	47306127	47306453	PRPS2_g395.t1	PRPS2
scaffold_1	107654131	107654841	PRR9_g725.t1	PRR9
scaffold_1	26417502	26425507	PRRT4_g287.t1	PRRT4
scaffold_1	26417502	26425507	PRRT4_g287.t2	PRRT4
scaffold_1	14550402	14573058	PRS58_g183.t1	PRS58
scaffold_1	89137494	89154745	PRS7_g627.t1	PRS7
scaffold_1	110664746	110675585	PSA2_g760.t1	PSA2
scaffold_1	31842535	31862351	PSMD6_g320.t1	PSMD6
scaffold_1	75613982	75640733	PTIP2_g559.t1	PTIP2
scaffold_1	18232242	18235819	PTN_g219.t1	PTN
scaffold_1	88291875	88383993	PTN12_g617.t1	PTPN12
scaffold_1	711614	1229348	PTPR2_g6.t1	PTPR2
scaffold_1	108999652	109000560	PURB_g735.t1	PURB
scaffold_1	90947587	90996554	PUS7_g635.t1	PUS7
scaffold_1	100768542	100792891	PYGL_g699.t1	PYGL
scaffold_1	14691328	14734186	MSTRG.110.2	RAD50
scaffold_1	96158041	96177795	RALA_g678.t1	RALA
scaffold_1	36055942	36165764	RARR2_g337.t1	RARR2
scaffold_1	7719755	7721798	RARR2_g83.t1	RARR2
scaffold_1	26430227	26457552	RBM28_g288.t1	RBM28
scaffold_1	3071039	3117300	MSTRG.22.1	RBM33
scaffold_1	3072789	3223183	MSTRG.22.2	RBM33

scaffold_1	3077438	3223183	RBM33_g17.t1	RBM33
scaffold_1	73904955	73911909	RBM48_g544.t2	RBM48
scaffold_1	89189891	89697721	RELN_g629.t1	RELN
scaffold_1	7698931	7702250	REPI1_g82.t1	REPIN1
scaffold_1	7697480	7703125	MSTRG.57.2	REPIN1
scaffold_1	7697881	7703125	MSTRG.57.3	REPIN1
scaffold_1	7697881	7703125	MSTRG.57.4	REPIN1
scaffold_1	68770054	68773205	RFA3_g510.t1	RFA3
scaffold_1	91003178	91030364	RINT1_g636.t1	RINT1
scaffold_1	102251032	102251244	RL23A_g700.t1	RPL23A
scaffold_1	5414193	5414621	RL7_g32.t1	RPL7
scaffold_1	110660393	110664506	RM32_g759.t1	MRPL32
scaffold_1	31056754	31057884	RN133_g314.t1	RN133
scaffold_1	31053296	31054207	RN148_g313.t1	RN148
scaffold_1	2323148	2363757	RNF32_g14.t1	RNF32
scaffold_1	46904571	46929785	MSTRG.328.2	RP9
scaffold_1	46902375	46929785	MSTRG.328.1	RP9
scaffold_1	46904587	46929785	RP9_g385.t1	RP9
scaffold_1	47081777	47115146	RP9_g388.t1	RP9
scaffold_1	58265567	58276872	RPA43_g476.t1	RPA43
scaffold_1	58265612	58276872	RPA43_g476.t2	RPA43
scaffold_1	19438552	19438968	MSTRG.161.1	RPUSD4
scaffold_1	52684910	52685335	RS19_g445.t1	RS19
scaffold_1	109817831	109859731	RT24_g754.t1	RT24
scaffold_1	15283205	15289237	RT33_g191.t1	MRPS33
scaffold_1	15283115	15289237	RT33_g191.t2	MRPS33
scaffold_1	77925861	78094361	RUN3B_g573.t1	RUNDC3B
scaffold_1	77922939	77938326	MSTRG.529.6	RUNDC3B
scaffold_1	19397714	19438221	S13A4_g225.t1	S13A4
scaffold_1	19967498	19969934	S23A1_g229.t1	S23A1
scaffold_1	19917794	19948121	S23A2_g228.t1	SLC23A2
scaffold_1	20283987	20285185	S23A2_g230.t3	SLC23A2
scaffold_1	77891706	77919464	S2540_g572.t1	S2540
scaffold_1	77891652	77919464	S2540_g572.t2	S2540
scaffold_1	93026575	93050459	S26A3_g653.t1	SLC26A3
scaffold_1	92912151	92957804	S26A4_g651.t1	SLC26A4
scaffold_1	89159828	89189836	S26A5_g628.t1	SLC26A5
scaffold_1	21515273	21536605	S35B4_g243.t1	S35B4
scaffold_1	25696706	25868540	SAHH3_g271.t1	SAHH3
scaffold_1	73402080	73406843	SAM9L_g539.t1	SAMD9L
scaffold_1	73437414	73442012	SAMD9_g540.t1	SAMD9
scaffold_1	73437246	73442012	SAMD9_g540.t2	SAMD9
scaffold_1	39340506	39424725	SAMTR_g348.t1	BMT2
scaffold_1	100037758	100064419	SC61G_g696.t1	SEC61G
scaffold_1	64523319	64595731	ADSV_g496.t1	SCIN

scaffold_1	49473122	49509881	SCRN1_g412.t1	SCRN1
scaffold_1	49430093	49439730	SCRN1_g412.t2	SCRN1
scaffold_1	69797195	69856330	SDHF3_g516.t1	SDHAF3
scaffold_1	70200661	70223132	SEM1_g519.t1	SEM1
scaffold_1	81599474	81818437	SEM3A_g586.t1	SEM3A
scaffold_1	44492720	44577050	MSTRG.311.1	SEPTIN7
scaffold_1	44493744	44636580	SEPT7_g374.t1	SEPTIN7
scaffold_1	93867451	93877391	MSTRG.623.1	SFRP4
scaffold_1	93867755	93877391	SFRP4_g661.t1	SFRP4
scaffold_1	71910388	71976458	SGCE_g530.t1	SGCE
scaffold_1	15528865	15531623	MSTRG.118.2	SKA1
scaffold_1	52075545	52242309	SKAP2_g439.t1	SKAP2
scaffold_1	20055478	20086395	S23A2_g230.t2	SLC23A1
scaffold_1	19936538	19947249	MSTRG.184.2	SLC23A1
scaffold_1	20298439	20449960	MSTRG.186.13	SLC23A1
scaffold_1	19968384	19987205	MSTRG.186.5	SLC23A1
scaffold_1	19968395	19987205	MSTRG.186.6	SLC23A1
scaffold_1	19968395	19987205	MSTRG.186.7	SLC23A1
scaffold_1	19968536	20325563	MSTRG.186.8	SLC23A1
scaffold_1	25875826	25896301	SMO_g272.t1	SMO
scaffold_1	6702075	6712143	SMRD3_g41.t1	SMRD3
scaffold_1	26651481	27071865	SND1_g290.t1	SND1
scaffold_1	52512432	52524295	SNX10_g440.t1	SNX10
scaffold_1	59801016	59929535	MSTRG.414.2	SNX13
scaffold_1	77587214	77604231	SORCN_g569.t1	SORCN
scaffold_1	61051067	61054186	SOSD1_g488.t1	SOSD1
scaffold_1	56690443	56769610	MSTRG.398.1	SP4
scaffold_1	56693100	56724060	MSTRG.398.2	SP4
scaffold_1	46855555	46855784	MSTRG.324.1	SPATA31D1
scaffold_1	2312152	2312364	MSTRG.13.1	SPIN1
scaffold_1	13057029	13061469	GSTK1_g145.t1	SPRING1
scaffold_1	15736170	15769041	SPX3_g197.t1	SPX3
scaffold_1	90651103	90880032	MSTRG.587.3	SRPK2
scaffold_1	90652522	90678305	MSTRG.587.5	SRPK2
scaffold_1	48700894	48774223	MSTRG.337.2	SRRM2
scaffold_1	7796124	7849968	SSPO_g87.t2	SSPOP
scaffold_1	110068650	110107016	ST17A_g757.t1	STK17A
scaffold_1	35654291	35906950	MSTRG.280.2	ST7
scaffold_1	35654293	35846584	MSTRG.280.4	ST7
scaffold_1	35654535	35906950	ST7_g335.t1	ST7
scaffold_1	35651881	35846584	MSTRG.280.1	ST7
scaffold_1	35654291	35846584	MSTRG.280.3	ST7
scaffold_1	35754499	35770645	MSTRG.280.7	ST7
scaffold_1	75857235	75863557	STEA1_g564.t1	STEAP1
scaffold_1	77522706	77545053	STEA4_g567.t1	STEA4

scaffold_1	26646971	26647495	MSTRG.247.1	STEAP2
scaffold_1	94150694	94173682	STR3N_g663.t1	STARD3NL
scaffold_1	20418790	20424693	MSTRG.195.1	STRA8
scaffold_1	20524057	20543272	STRA8_g232.t1	STRA8
scaffold_1	25648466	25690390	STRP2_g270.t2	STRP2
scaffold_1	96423756	97155012	SUCHY_g681.t1	SUGCT
scaffold_1	17182739	17288612	MSTRG.149.1	SVOPL
scaffold_1	7091451	7095209	T176A_g60.t1	T176A
scaffold_1	7099443	7104043	T176B_g61.t1	T176B
scaffold_1	4936002	4936243	MSTRG.23.1	TAPT1
scaffold_1	15274644	15274893	MSTRG.113.1	TAS2R5
scaffold_1	51280217	51357671	MSTRG.368.1	TAX1BP1
scaffold_1	51281142	51350817	TAXB1_g421.t1	TAX1BP1
scaffold_1	12556308	12575924	TCAF2_g127.t1	TCAF2
scaffold_1	106830363	106964863	TENS3_g721.t1	TENS3
scaffold_1	36522825	36568498	MSTRG.282.2	TES
scaffold_1	36457393	36568498	TES_g340.t1	TES
scaffold_1	77086276	77087037	TEX47_g565.t1	TEX47
scaffold_1	72668423	72672141	TFPI2_g535.t1	TFPI2
scaffold_1	42972649	42980064	MSTRG.304.1	THAP5
scaffold_1	42972649	42978040	MSTRG.304.2	THAP5
scaffold_1	42973135	42980064	MSTRG.304.4	THAP5
scaffold_1	42972855	42978040	THAP5_g365.t1	THAP5
scaffold_1	74255775	74256395	THOC7_g551.t1	THOC7
scaffold_1	65207453	65626011	THS7A_g502.t1	THSD7A
scaffold_1	65626617	65626848	MSTRG.436.1	THSD7A
scaffold_1	17185037	17288612	TIF1A_g214.t1	TIF1A
scaffold_1	12493632	12507411	TITIN_g126.t1	TTN
scaffold_1	35646968	35647183	MSTRG.275.1	TJP2
scaffold_1	69373251	69388417	TKN1_g515.t1	TAC1
scaffold_1	39444297	39471159	TM168_g349.t1	TMEM168
scaffold_1	25056812	25101180	TM209_g265.t1	TM209
scaffold_1	78810691	78830510	TM243_g579.t1	TM243
scaffold_1	6864348	6868514	MSTRG.48.1	TM6SF1
scaffold_1	6864348	6868514	MSTRG.48.2	TM6SF1
scaffold_1	6864348	6868514	MSTRG.48.3	TM6SF1
scaffold_1	6864352	6868514	MSTRG.48.5	TM6SF1
scaffold_1	6865320	6867616	MSTRG.48.7	TM6SF1
scaffold_1	109212097	109213787	TMED4_g740.t1	TMED4
scaffold_1	109212064	109213787	TMED4_g740.t2	TMED4
scaffold_1	39437436	39471159	MSTRG.285.1	TMEM168
scaffold_1	25056781	25090851	MSTRG.221.1	TMEM209
scaffold_1	25057555	25090851	MSTRG.221.3	TMEM209
scaffold_1	90318366	90318569	MSTRG.580.1	TMEM89
scaffold_1	88150550	88151255	TMM60_g614.t1	TMM60

scaffold_1	6862764	6864059	TMUB1_g49.t1	TMUB1
scaffold_1	25986621	26077633	TNPO3_g274.t1	TNPO3
scaffold_1	25985814	26080714	MSTRG.231.1	TNPO3
scaffold_1	106828072	106964863	MSTRG.690.1	TNS3
scaffold_1	106829979	106964863	MSTRG.690.3	TNS3
scaffold_1	46896291	46896608	TOM70_g384.t1	TOMM70
scaffold_1	55622519	55630097	MSTRG.393.1	TOMM7
scaffold_1	11661200	11987564	TPK1_g102.t1	TPK1
scaffold_1	3654907	3673919	TPST2_g25.t1	TPST2
scaffold_1	54994020	55015990	TRA2A_g457.t1	TRA2A
scaffold_1	54993864	55015990	MSTRG.388.1	TRA2A
scaffold_1	54993864	54998994	MSTRG.388.2	TRA2A
scaffold_1	54993889	55015990	MSTRG.388.3	TRA2A
scaffold_1	50241224	50243653	TRIL_g417.t1	TRIL
scaffold_1	92967903	92984976	TS1R3_g652.t1	TS1R3
scaffold_1	32615380	32676616	TSN12_g326.t1	TSN12
scaffold_1	60752096	60784747	TSN13_g484.t1	TSN13
scaffold_1	25910250	25928070	TSN33_g273.t1	TSN33
scaffold_1	39572265	39581898	TTC16_g351.t2	TTC16
scaffold_1	106990462	106992602	TTLL2_g722.t1	TTLL2
scaffold_1	547496	547819	TVA21_g4.t1	TVA21
scaffold_1	58719743	58724896	MSTRG.408.1	TWIST1
scaffold_1	58265565	58276872	MSTRG.404.1	TWISTNB
scaffold_1	25315979	25364395	MSTRG.225.2	UBE2H
scaffold_1	25259168	25361542	UBE2H_g268.t1	UBE2H
scaffold_1	1856727	1995640	UBE3C_g10.t1	UBE3C
scaffold_1	16586744	16650989	UBN2_g205.t1	UBN2
scaffold_1	12114281	12114541	UBP18_g107.t1	USP18
scaffold_1	106240674	106254147	UPP1_g714.t1	UPP1
scaffold_1	109807082	109812158	URGCP_g753.t1	URGCP
scaffold_1	26151242	26153314	VAFNB_g278.t2	VAFNB
scaffold_1	26154162	26156730	VATF_g279.t1	ATP6V1F
scaffold_1	99241708	99360389	VOPP1_g690.t1	VOPP1
scaffold_1	17040656	17091617	VPP4_g212.t1	ATP6V0A4
scaffold_1	95246515	95417336	VPS41_g674.t1	VPS41
scaffold_1	73112136	73315223	VPS50_g537.t1	VPS50
scaffold_1	76374503	76374733	MSTRG.501.1	VRK2
scaffold_1	100267110	100292013	VTM2A_g698.t1	VTM2A
scaffold_1	20607404	20607615	MSTRG.181.1	WASHC1
scaffold_1	30204874	30272888	WASL_g306.t1	WASL
scaffold_1	421458	460956	MSTRG.3.1	WDR60
scaffold_1	6575247	6598589	WDR86_g39.t2	WDR86
scaffold_1	20563881	20591523	MSTRG.173.1	WDR91
scaffold_1	20318443	20325563	MSTRG.186.14	WDR91
scaffold_1	20318493	20325563	MSTRG.186.15	WDR91

scaffold_1	20318493	20451940	MSTRG.186.16	WDR91
scaffold_1	20318494	20451940	MSTRG.186.17	WDR91
scaffold_1	20444018	20451940	MSTRG.186.19	WDR91
scaffold_1	19938753	19987205	MSTRG.186.2	WDR91
scaffold_1	19938768	19987205	MSTRG.186.3	WDR91
scaffold_1	19960010	19987205	MSTRG.186.4	WDR91
scaffold_1	20563910	20566637	WDR91_g233.t1	WDR91
scaffold_1	14658042	14680433	WEE2_g188.t1	WEE2
scaffold_1	49515702	49609823	MSTRG.354.1	WIPF3
scaffold_1	64852454	64867649	Y450_g500.t1	Y450
scaffold_1	96052074	96058008	YAE1_g677.t1	YAE1
scaffold_1	109527174	109537078	YKT6_g744.t1	YKT6
scaffold_1	16790784	16804034	K1549_g210.t1	ZC3HAV1L
scaffold_1	16723386	16780513	ZCCHV_g208.t1	ZC3HAV1
scaffold_1	16723326	16780513	ZCCHV_g208.t2	ZC3HAV1
scaffold_1	109090818	109107803	MSTRG.704.2	ZMIZ1
scaffold_1	109090822	109107803	MSTRG.704.4	ZMIZ2
scaffold_1	109091624	109101377	ZMIZ2_g738.t1	ZMIZ2
scaffold_1	8156343	8170484	ZN212_g93.t1	ZNF212
scaffold_1	39839663	39890861	ZN277_g355.t1	ZNF277
scaffold_1	39839663	39890937	ZN277_g355.t2	ZNF277
scaffold_1	39955114	39957661	ZN277_g356.t1	ZNF277
scaffold_1	8177747	8200220	ZN282_g94.t1	ZNF282
scaffold_1	8210904	8232627	ZN398_g95.t1	ZNF398
scaffold_1	8249025	8264900	ZN425_g96.t1	ZNF425
scaffold_1	7992819	8011739	ZN746_g90.t1	ZNF746
scaffold_1	7674691	7676313	ZN775_g81.t1	ZNF775
scaffold_1	8027428	8055496	ZN777_g91.t1	ZNF777
scaffold_1	8130227	8150673	ZN783_g92.t1	ZNF783
scaffold_1	8270195	8284697	ZN786_g97.t1	ZNF786
scaffold_1	27258922	27278110	ZN800_g296.t1	ZNF800
scaffold_1	8155158	8160256	MSTRG.73.2	ZNF212
scaffold_1	39838139	39957661	MSTRG.293.1	ZNF277
scaffold_1	8173446	8200220	MSTRG.73.5	ZNF282
scaffold_1	39300113	39352224	MSTRG.286.1	ZNF383
scaffold_1	26640189	26640412	MSTRG.243.1	ZNF391
scaffold_1	50237151	50237372	MSTRG.358.1	ZNF510
scaffold_1	16492771	16512642	MSTRG.137.5	ZNF709
scaffold_1	5698659	5698996	MSTRG.33.1	ZNF709
scaffold_1	27257991	27283037	MSTRG.253.1	ZNF800
scaffold_1	7756960	7787840	SSPO_g87.t1	ZNF862
scaffold_1	49106702	49203049	MSTRG.349.1	ZNRF2
scaffold_1	12950716	12960856	MSTRG.100.1	ZYX
scaffold_1	12950822	12960856	MSTRG.100.2	ZYX
scaffold_1	12951285	12959912	ZYX_g140.t2	ZYX

scaffold_10	16194525	16199870	MSTRG.869.4	ABCC4
scaffold_10	4998535	4999568	ABHDD_g816.t1	ABHD13
scaffold_10	65298296	65298541	MSTRG.1090.1	ADHFE1
scaffold_10	55155043	55333829	AKA11_g950.t1	AKAP11
scaffold_10	72422033	72444399	AL5AP_g1067.t1	ALOX5AP
scaffold_10	64313956	64326637	ALG11_g1022.t1	ALG11
scaffold_10	64313959	64329355	MSTRG.1070.2	ALG11
scaffold_10	64313959	64326637	MSTRG.1070.3	ALG11
scaffold_10	64313980	64329355	MSTRG.1070.4	ALG11
scaffold_10	66653750	66699767	ALG5_g1038.t1	ALG5
scaffold_10	66652895	66699767	MSTRG.1095.1	ALG5
scaffold_10	2796603	2830822	ANR10_g803.t1	ANKRD10
scaffold_10	6375431	6400838	ARGL1_g820.t1	ARGLU1
scaffold_10	2532975	2679107	ARHG7_g801.t1	ARHGEF7
scaffold_10	2528249	2650915	MSTRG.764.1	ARHGEF7
scaffold_10	757044	773560	ARHL1_g777.t1	ADPRHL1
scaffold_10	62005015	62005548	ARL11_g1000.t1	ARL11
scaffold_10	1248859	1369606	AT11A_g787.t1	ATP11A
scaffold_10	76629744	77218300	AT8A2_g1102.t1	ATP8A2
scaffold_10	581095	587590	ATP4B_g773.t1	ATP4B
scaffold_10	64219840	64282254	ATP7B_g1020.t1	ATP7B
scaffold_10	64218376	64218607	MSTRG.1065.1	ATP7B
scaffold_10	76857121	77076389	MSTRG.1170.2	ATP8A2
scaffold_10	71909525	72025664	MSTRG.1135.1	B3GLCT
scaffold_10	71909534	72025664	MSTRG.1135.2	B3GLCT
scaffold_10	71909536	71949926	MSTRG.1135.3	B3GLCT
scaffold_10	71911645	72025664	B3GLT_g1063.t1	B3GLCT
scaffold_10	60503870	60523289	MSTRG.1022.2	B3GNT5
scaffold_10	9684694	9709084	BIVM_g828.t1	BIVM
scaffold_10	9683233	9715099	MSTRG.802.2	BIVM
scaffold_10	36560897	36586098	BORA_g912.t1	BORA
scaffold_10	70821613	70888733	BRCA2_g1057.t1	BRCA2
scaffold_10	61687943	61688167	MSTRG.1042.1	CAB39L
scaffold_10	61689395	61845069	MSTRG.1043.1	CAB39L
scaffold_10	2937279	2976246	MSTRG.768.1	CARS2
scaffold_10	61689749	61769659	CB39L_g997.t1	CAB39L
scaffold_10	58446258	58500699	CBY2_g973.t1	CBY2
scaffold_10	56828536	56863158	CC122_g958.t1	CCDC122
scaffold_10	9755522	9779101	CC168_g830.t1	CCDC168
scaffold_10	67253596	67315655	CC169_g1044.t1	CCDC169
scaffold_10	67315988	67316200	MSTRG.1102.1	CCDC169
scaffold_10	68664865	68665205	MSTRG.1110.1	CCDC180
scaffold_10	78450340	78450554	MSTRG.1178.1	CCR4
scaffold_10	61609204	61648996	CDAC1_g996.t1	CDADC1
scaffold_10	93129	123101	CDC16_g766.t1	CDC16

scaffold_10	76332167	76463333	CDK8_g1098.t1	CDK8
scaffold_10	76348027	76463333	MSTRG.1167.2	CDK8
scaffold_10	82158662	82159760	CENPJ_g1144.t1	CENPJ
scaffold_10	82577612	82577831	MSTRG.1210.1	CENPJ
scaffold_10	19847	23104	CHAP1_g764.t1	UBQLN2
scaffold_10	19631	23104	CHAP1_g764.t2	UBQLN2
scaffold_10	64432819	64449730	CKAP2_g1025.t1	CKAP2
scaffold_10	15761727	15780866	CLD10_g863.t1	CLDN10
scaffold_10	32903840	32910611	CLN5_g898.t1	CLN5
scaffold_10	12137679	12358667	CLYBL_g841.t1	CLYBL
scaffold_10	54114941	54139269	CNMD_g940.t1	CNMD
scaffold_10	3266712	3408787	CO4A1_g810.t1	COL4A1
scaffold_10	3079960	3265891	CO4A2_g809.t1	COL4A2
scaffold_10	58284704	58361143	COG3_g971.t1	COG3
scaffold_10	58284550	58361143	MSTRG.1010.1	COG3
scaffold_10	58284573	58361143	MSTRG.1010.2	COG3
scaffold_10	22657077	22745121	COG6_g881.t1	COG6
scaffold_10	3266712	3408787	MSTRG.772.1	COL4A1
scaffold_10	81042170	81073746	CRYL1_g1133.t1	CRYL1
scaffold_10	81170140	81203548	MSTRG.1194.5	CRYL1
scaffold_10	55578525	55579154	CTGE9_g951.t1	CTAGE9
scaffold_10	874551	925582	CUL4A_g780.t1	CUL4A
scaffold_10	37350182	37360254	DACH1_g915.t1	DACH1
scaffold_10	37496502	37763806	DACH1_g916.t1	DACH1
scaffold_10	37495404	37763806	DACH1_g916.t2	DACH1
scaffold_10	724407	752701	DCNL2_g776.t1	DCUN1D2
scaffold_10	723957	755000	MSTRG.755.2	DCUN1D2
scaffold_10	725128	755000	MSTRG.755.4	DCUN1D2
scaffold_10	725128	755000	MSTRG.755.5	DCUN1D2
scaffold_10	725161	755000	MSTRG.755.7	DCUN1D2
scaffold_10	727858	755000	MSTRG.755.9	DCUN1D2
scaffold_10	47605708	47908353	DIAP3_g929.t1	DIAPH3
scaffold_10	47605520	48084419	MSTRG.969.2	DIAPH3
scaffold_10	56042957	56122221	DJC15_g955.t1	DNAJC15
scaffold_10	15595182	15667839	DNJC3_g861.t1	DNAJC3
scaffold_10	5019849	5022371	DNLI4_g817.t1	LIG4
scaffold_10	5019612	5022371	DNLI4_g817.t2	LIG4
scaffold_10	12797310	13018255	DOCK9_g847.t1	DOCK9
scaffold_10	13018876	13079265	DOCK9_g848.t1	DOCK9
scaffold_10	13021516	13079265	MSTRG.830.4	DOCK9
scaffold_10	1970663	1970962	THBG_g797.t1	DYNC1H1
scaffold_10	15703746	15761721	DZIP1_g862.t1	DZIP1
scaffold_10	62032109	62074170	EBPL_g1001.t1	EBPL
scaffold_10	80847719	80867370	EFMT1_g1130.t1	EEF1AKMT1
scaffold_10	6408454	6449863	EFNB2_g821.t1	EFNB2

scaffold_10	56229259	56435033	ENOX1_g957.t1	ENOX1
scaffold_10	9626	19846	EPG5_g763.t1	EPG5
scaffold_10	9650363	9680441	ERCC5_g827.t1	ERCC5
scaffold_10	59411754	59436032	MSTRG.1017.1	ESD
scaffold_10	59412620	59436032	MSTRG.1017.2	ESD
scaffold_10	55920318	56013669	ESIP1_g954.t1	EPSTI1
scaffold_10	59413668	59430580	ESTD_g981.t1	ESD
scaffold_10	66645678	66652611	EXOS8_g1037.t1	EXOS8
scaffold_10	63456548	63560889	F124A_g1013.t1	F124A
scaffold_10	5255221	5278966	F155A_g818.t1	NALF1
scaffold_10	55815519	55820395	F216B_g953.t1	FAM216B
scaffold_10	963767	984748	FA10_g783.t1	FA10
scaffold_10	989514	998474	FA7_g784.t1	FA7
scaffold_10	13380876	13611172	FARP1_g851.t1	FARP1
scaffold_10	13378461	13668416	MSTRG.836.2	FARP1
scaffold_10	32879559	32899809	MSTRG.935.1	FBXL3
scaffold_10	32880127	32899809	MSTRG.935.2	FBXL3
scaffold_10	74731367	74814104	FLT3_g1079.t1	FLT3
scaffold_10	81070008	81075613	MSTRG.1195.1	FMNL1
scaffold_10	61389550	61574111	FND3A_g994.t1	FND3A
scaffold_10	61389844	61574111	MSTRG.1032.2	FNDC3A
scaffold_10	21827575	21918241	FOXO1_g879.t1	FOXO1
scaffold_10	21827031	21922262	MSTRG.901.1	FOXO1
scaffold_10	64870476	65028064	FREM2_g1031.t1	FREM2
scaffold_10	64843653	64883590	MSTRG.1085.1	FREM2
scaffold_10	64885298	65028064	MSTRG.1085.3	FREM2
scaffold_10	64883521	64927060	MSTRG.1086.1	FREM2
scaffold_10	70907202	71111876	FRY_g1059.t1	FRY
scaffold_10	70905977	70947238	MSTRG.1132.1	FRY
scaffold_10	32339659	32428310	G6PT3_g896.t1	G6PT3
scaffold_10	64655276	64664062	MSTRG.1076.2	GALNT7
scaffold_10	75169838	75250039	MSTRG.1158.1	GALNT7
scaffold_10	75169857	75250039	MSTRG.1158.2	GALNT7
scaffold_10	80387067	80409404	MSTRG.1182.2	GALNT7
scaffold_10	451451	492641	GAS6_g770.t1	GAS6
scaffold_10	1464494	1543963	GCP3_g789.t1	TUBGCP3
scaffold_10	16534805	16560030	GP180_g869.t1	PTPRC
scaffold_10	12622047	12626526	GP183_g845.t1	GP183
scaffold_10	57864222	57897072	GPAM1_g965.t1	GPAM1
scaffold_10	19298710	19370871	GPC5_g874.t1	GPC5
scaffold_10	558604	571413	GRK1_g772.t1	GRK1
scaffold_10	809525	842216	GRTP1_g778.t1	GRTP1
scaffold_10	75355961	75367812	MSTRG.1160.1	GTF3A
scaffold_10	75355961	75367754	MSTRG.1160.2	GTF3A
scaffold_10	65057278	65108526	MSTRG.1087.2	GYPA

scaffold_10	14701935	14702624	H6ST3_g858.t1	HS6ST3
scaffold_10	15139517	15359502	H6ST3_g859.t1	HS6ST3
scaffold_10	6268344	6277489	HDAC6_g819.t2	HDAC6
scaffold_10	72645119	72649007	HMGB1_g1069.t1	HMGB1
scaffold_10	72645083	72649007	HMGB1_g1069.t2	HMGB1
scaffold_10	72642846	72649007	MSTRG.1141.1	HMGB1
scaffold_10	72053665	72078458	HS105_g1064.t1	HSPH1
scaffold_10	59457633	59458066	MSTRG.1021.1	HSF2
scaffold_10	72053772	72078458	MSTRG.1136.2	HSPH1
scaffold_10	71757529	71774323	IF16_g1061.t1	IF16
scaffold_10	75345071	75355966	IF3M_g1090.t1	MTIF3
scaffold_10	75344771	75355966	IF3M_g1090.t2	MTIF3
scaffold_10	80899549	81022671	MSTRG.1196.1	IFT88
scaffold_10	80899759	81022671	MSTRG.1196.2	IFT88
scaffold_10	80899907	81022671	MSTRG.1196.3	IFT88
scaffold_10	80959784	81017477	MSTRG.1196.5	IFT88
scaffold_10	80959784	81005545	MSTRG.1196.6	IFT88
scaffold_10	80869566	80889118	IL17D_g1131.t1	IL17D
scaffold_10	62077893	62166486	IMA4_g1002.t1	KPNA3
scaffold_10	2926745	2932421	ING1_g804.t1	ING1
scaffold_10	2925047	2930749	MSTRG.766.2	ING1
scaffold_10	63667514	63753514	INT6_g1015.t1	INT6
scaffold_10	63664392	63665939	MSTRG.1057.1	INTS6
scaffold_10	63667262	63690081	MSTRG.1064.1	INTS6
scaffold_10	63667514	63753514	MSTRG.1064.2	INTS6
scaffold_10	13756268	13795314	IPO5_g853.t1	IPO5
scaffold_10	32943176	32951030	IRG1_g899.t1	ACOD1
scaffold_10	32943176	32947726	IRG1_g899.t2	ACOD1
scaffold_10	32942428	32951030	MSTRG.939.1	ACOD1
scaffold_10	3708797	3737438	IRS2_g812.t1	IRS2
scaffold_10	3737439	3739602	MSTRG.776.3	IRS2
scaffold_10	10638919	10833843	ITGBL_g835.t1	ITGBL1
scaffold_10	60738607	60765025	ITM2B_g988.t1	ITM2B
scaffold_10	60738359	60767234	MSTRG.1023.1	ITM2B
scaffold_10	72794919	72859736	KATL1_g1070.t1	KATL1
scaffold_10	72861878	72862120	MSTRG.1142.1	KATNAL1
scaffold_10	72862768	72862991	MSTRG.1147.1	KATNAL1
scaffold_10	54381415	54383424	KBTB6_g944.t1	KBTBD6
scaffold_10	54460886	54462925	KBTB7_g945.t1	KBTBD7
scaffold_10	32996529	32997524	KCD12_g900.t1	KCD12
scaffold_10	60582541	60590269	MSTRG.1025.1	KCNQ1
scaffold_10	62333549	62338923	KCNRG_g1004.t1	KCNRG
scaffold_10	58047194	58047973	KCTD4_g967.t1	KCTD4
scaffold_10	59074921	59118224	MSTRG.1013.1	KIAA0226L
scaffold_10	59079062	59091288	MSTRG.1013.2	KIAA0226L

scaffold_10	59079518	59107183	MSTRG.1013.3	KIAA0226L
scaffold_10	35467938	35745237	KLF12_g906.t1	KLF12
scaffold_10	36287597	36303664	KLF5_g909.t1	KLF5
scaffold_10	58248933	58262472	KMCP1_g970.t1	KMCP1
scaffold_10	56877500	56884009	LACC1_g959.t1	LACC1
scaffold_10	56874845	56888359	MSTRG.1000.1	LACC1
scaffold_10	56875824	56886798	MSTRG.1000.2	LACC1
scaffold_10	56875851	56886798	MSTRG.1000.3	LACC1
scaffold_10	56877325	56933774	MSTRG.1000.4	LACC1
scaffold_10	56880641	56884009	MSTRG.1000.6	LACC1
scaffold_10	845543	866196	LAMP1_g779.t1	LAMP1
scaffold_10	80546148	80639046	LATS2_g1128.t1	LATS2
scaffold_10	80532035	80639412	MSTRG.1186.1	LATS2
scaffold_10	58879408	58931107	MSTRG.1012.1	LCP1
scaffold_10	22793599	23028380	LHPL6_g882.t1	LHPL6
scaffold_10	33879176	34082390	LMO7_g901.t1	LMO7
scaffold_10	75169873	75250039	MSTRG.1158.3	LNX2
scaffold_10	75170001	75248263	MSTRG.1158.5	LNX2
scaffold_10	60911550	60912584	LPAR6_g990.t1	LPAR6
scaffold_10	13731587	13738047	LPIN2_g852.t1	LPIN2
scaffold_10	58961300	59030271	LRC63_g978.t2	LRRC63
scaffold_10	59200575	59398021	LRCH1_g980.t1	LRCH1
scaffold_10	59200263	59398021	MSTRG.1018.1	LRCH1
scaffold_10	743142	747690	MSTRG.755.11	LRRC32
scaffold_10	64827467	64827706	MSTRG.1079.1	PTPRC
scaffold_10	68382661	68386673	MSTRG.1105.1	MALT1
scaffold_10	1010689	1088628	MCF2L_g785.t1	MCF2L
scaffold_10	60608334	60628945	MED4_g987.t1	MED4
scaffold_10	72284324	72300217	MEDAG_g1066.t1	MEDAG
scaffold_10	80142723	80274104	MICU2_g1121.t1	MICU2
scaffold_10	81932760	81932993	MSTRG.1204.1	MPHOSPH8
scaffold_10	81934068	81981034	MSTRG.1205.1	MPHOSPH8
scaffold_10	81934708	81981034	MPP8_g1143.t1	MPP8
scaffold_10	15943528	16199421	MRP4_g865.t1	ABCC4
scaffold_10	76050550	76068220	MSTRG.1165.3	MRPS31
scaffold_10	81042089	81240108	MSTRG.1194.1	MS4A7
scaffold_10	9819224	9826954	MT21C_g832.t1	METTL21C
scaffold_10	75332866	75355966	MSTRG.1159.1	MTIF3
scaffold_10	75332874	75355966	MSTRG.1159.2	MTIF3
scaffold_10	77327617	77372466	MSTRG.1172.1	MTMR6
scaffold_10	77346725	77371532	MTMR6_g1104.t1	MTMR6
scaffold_10	73493357	73909574	MSTRG.1153.1	MTUS2
scaffold_10	73494002	74064248	MSTRG.1153.2	MTUS2
scaffold_10	73494002	74064248	MSTRG.1153.3	MTUS2
scaffold_10	73494810	74064248	MSTRG.1153.4	MTUS2

scaffold_10	73496680	74064248	MSTRG.1153.6	MTUS2
scaffold_10	73614879	73898668	MTUS2_g1074.t1	MTUS2
scaffold_10	32612736	32867820	MYCB2_g897.t1	MYCB2
scaffold_10	32702033	32839788	MSTRG.943.2	MYCBP2
scaffold_10	4197474	4660708	MYO16_g813.t1	MYO16
scaffold_10	36587426	36610222	MZT1_g913.t1	MZT1
scaffold_10	70785366	70817298	N42L1_g1056.t1	N4BP2L1
scaffold_10	70817389	70890255	MSTRG.1127.1	N4BP2L1
scaffold_10	70818018	70818265	MSTRG.1128.1	N4BP2L1
scaffold_10	70704896	70777385	MSTRG.1129.1	N4BP2L2
scaffold_10	54524398	54593143	NAA16_g947.t1	NAA16
scaffold_10	10874669	11161318	NALCN_g836.t1	NALCN
scaffold_10	67855712	68546669	MSTRG.1103.1	NBEA
scaffold_10	67858607	68546669	NBEA_g1048.t1	NBEA
scaffold_10	64403754	64422318	NEK3_g1024.t1	NEK3
scaffold_10	64330555	64399784	NEK5_g1023.t1	NEK5
scaffold_10	30705653	30767497	NFIP2_g890.t1	NFIP2
scaffold_10	23293267	23303715	NHLC3_g883.t1	NHLRC3
scaffold_10	2984623	3006885	NNRD_g806.t1	NAXD
scaffold_10	80379568	80387008	MSTRG.1181.1	NOL10
scaffold_10	63191383	63193250	APCL_g1008.t1	APCL_g1008.t1
scaffold_10	6268344	6277482	HDAC6_g819.t1	HDAC6_g819.t1
scaffold_10	56928398	56933774	MSTRG.1000.7	MSTRG.1000.7
scaffold_10	57864157	57901285	MSTRG.1003.1	MSTRG.1003.1
scaffold_10	58107308	58107868	MSTRG.1006.1	MSTRG.1006.1
scaffold_10	58155026	58155226	MSTRG.1007.1	MSTRG.1007.1
scaffold_10	59115414	59117475	MSTRG.1014.1	MSTRG.1014.1
scaffold_10	59154790	59155018	MSTRG.1016.1	MSTRG.1016.1
scaffold_10	59432615	59436032	MSTRG.1017.4	MSTRG.1017.4
scaffold_10	60613076	60613306	MSTRG.1020.1	MSTRG.1020.1
scaffold_10	60572473	60572688	MSTRG.1024.1	MSTRG.1024.1
scaffold_10	60586612	60590269	MSTRG.1025.2	MSTRG.1025.2
scaffold_10	60957224	60957448	MSTRG.1027.1	MSTRG.1027.1
scaffold_10	61574643	61574852	MSTRG.1031.1	MSTRG.1031.1
scaffold_10	61500673	61538873	MSTRG.1032.3	MSTRG.1032.3
scaffold_10	61675173	61675471	MSTRG.1033.1	MSTRG.1033.1
scaffold_10	61624067	61624280	MSTRG.1035.1	MSTRG.1035.1
scaffold_10	61628174	61628423	MSTRG.1036.1	MSTRG.1036.1
scaffold_10	61628740	61629115	MSTRG.1037.1	MSTRG.1037.1
scaffold_10	62031899	62074170	MSTRG.1038.1	MSTRG.1038.1
scaffold_10	61919620	61977431	MSTRG.1046.1	MSTRG.1046.1
scaffold_10	61919620	61977431	MSTRG.1046.2	MSTRG.1046.2
scaffold_10	63068148	63068354	MSTRG.1047.1	MSTRG.1047.1
scaffold_10	63131821	63132021	MSTRG.1049.1	MSTRG.1049.1
scaffold_10	62318194	62344092	MSTRG.1051.1	MSTRG.1051.1

scaffold_10	62355542	62355774	MSTRG.1052.1	MSTRG.1052.1
scaffold_10	62359911	62363947	MSTRG.1053.1	MSTRG.1053.1
scaffold_10	62366719	62390272	MSTRG.1054.1	MSTRG.1054.1
scaffold_10	62369707	62390699	MSTRG.1054.2	MSTRG.1054.2
scaffold_10	62406973	62431932	MSTRG.1055.2	MSTRG.1055.2
scaffold_10	62553623	62553845	MSTRG.1056.1	MSTRG.1056.1
scaffold_10	63142009	63193505	MSTRG.1059.1	MSTRG.1059.1
scaffold_10	63174649	63193505	MSTRG.1059.2	MSTRG.1059.2
scaffold_10	63174649	63193505	MSTRG.1059.3	MSTRG.1059.3
scaffold_10	63174664	63193505	MSTRG.1059.4	MSTRG.1059.4
scaffold_10	63174664	63178347	MSTRG.1059.5	MSTRG.1059.5
scaffold_10	63176121	63194028	MSTRG.1059.6	MSTRG.1059.6
scaffold_10	63170662	63170888	MSTRG.1060.1	MSTRG.1060.1
scaffold_10	63173822	63174344	MSTRG.1061.1	MSTRG.1061.1
scaffold_10	63754570	63754797	MSTRG.1063.1	MSTRG.1063.1
scaffold_10	64630522	64634303	MSTRG.1075.1	MSTRG.1075.1
scaffold_10	64655391	64663049	MSTRG.1076.3	MSTRG.1076.3
scaffold_10	64657729	64664062	MSTRG.1076.4	MSTRG.1076.4
scaffold_10	64841344	64841557	MSTRG.1078.1	MSTRG.1078.1
scaffold_10	64801913	64808618	MSTRG.1080.1	MSTRG.1080.1
scaffold_10	64801916	64808618	MSTRG.1081.1	MSTRG.1081.1
scaffold_10	64802408	64820720	MSTRG.1082.1	MSTRG.1082.1
scaffold_10	64817897	64824576	MSTRG.1083.1	MSTRG.1083.1
scaffold_10	64800955	64801212	MSTRG.1084.1	MSTRG.1084.1
scaffold_10	65089547	65126746	MSTRG.1087.3	MSTRG.1087.3
scaffold_10	65064608	65072117	MSTRG.1088.1	MSTRG.1088.1
scaffold_10	66158492	66158701	MSTRG.1093.1	MSTRG.1093.1
scaffold_10	66597942	66645339	MSTRG.1099.1	MSTRG.1099.1
scaffold_10	66598187	66645339	MSTRG.1099.10	MSTRG.1099.10
scaffold_10	66597942	66645339	MSTRG.1099.2	MSTRG.1099.2
scaffold_10	66597942	66645339	MSTRG.1099.3	MSTRG.1099.3
scaffold_10	66597986	66645339	MSTRG.1099.4	MSTRG.1099.4
scaffold_10	66597986	66645339	MSTRG.1099.5	MSTRG.1099.5
scaffold_10	66597986	66645339	MSTRG.1099.6	MSTRG.1099.6
scaffold_10	66597986	66645339	MSTRG.1099.7	MSTRG.1099.7
scaffold_10	66598048	66645339	MSTRG.1099.8	MSTRG.1099.8
scaffold_10	66598187	66645339	MSTRG.1099.9	MSTRG.1099.9
scaffold_10	67918346	67967465	MSTRG.1104.1	MSTRG.1104.1
scaffold_10	68459267	68460506	MSTRG.1106.1	MSTRG.1106.1
scaffold_10	68546698	68549623	MSTRG.1107.1	MSTRG.1107.1
scaffold_10	68551591	68551853	MSTRG.1108.1	MSTRG.1108.1
scaffold_10	68552122	68552574	MSTRG.1109.1	MSTRG.1109.1
scaffold_10	68747618	68882812	MSTRG.1111.1	MSTRG.1111.1
scaffold_10	68823361	68823583	MSTRG.1112.1	MSTRG.1112.1
scaffold_10	69612682	69612900	MSTRG.1114.1	MSTRG.1114.1

scaffold_10	69507183	69539923	MSTRG.1115.1	MSTRG.1115.1
scaffold_10	69725511	69725848	MSTRG.1116.1	MSTRG.1116.1
scaffold_10	69018464	69018675	MSTRG.1118.1	MSTRG.1118.1
scaffold_10	69771997	69772201	MSTRG.1120.1	MSTRG.1120.1
scaffold_10	70175331	70175583	MSTRG.1122.1	MSTRG.1122.1
scaffold_10	70805446	70805682	MSTRG.1126.1	MSTRG.1126.1
scaffold_10	71165535	71165756	MSTRG.1130.1	MSTRG.1130.1
scaffold_10	71754170	71754376	MSTRG.1133.1	MSTRG.1133.1
scaffold_10	72595237	72595468	MSTRG.1137.1	MSTRG.1137.1
scaffold_10	72543592	72543807	MSTRG.1139.1	MSTRG.1139.1
scaffold_10	72549036	72549237	MSTRG.1140.1	MSTRG.1140.1
scaffold_10	72652594	72652813	MSTRG.1144.1	MSTRG.1144.1
scaffold_10	73264978	73265192	MSTRG.1149.1	MSTRG.1149.1
scaffold_10	74158662	74178443	MSTRG.1151.1	MSTRG.1151.1
scaffold_10	75122987	75149197	MSTRG.1157.1	MSTRG.1157.1
scaffold_10	75998808	75999032	MSTRG.1162.1	MSTRG.1162.1
scaffold_10	76000723	76068220	MSTRG.1165.1	MSTRG.1165.1
scaffold_10	76031869	76050493	MSTRG.1165.2	MSTRG.1165.2
scaffold_10	77263416	77263686	MSTRG.1169.1	MSTRG.1169.1
scaffold_10	78957288	78957579	MSTRG.1176.1	MSTRG.1176.1
scaffold_10	78440201	78511627	MSTRG.1177.1	MSTRG.1177.1
scaffold_10	80357320	80369909	MSTRG.1180.4	MSTRG.1180.4
scaffold_10	80413744	80414107	MSTRG.1184.1	MSTRG.1184.1
scaffold_10	80889541	80889929	MSTRG.1188.1	MSTRG.1188.1
scaffold_10	80874380	80874587	MSTRG.1191.1	MSTRG.1191.1
scaffold_10	80841873	80867370	MSTRG.1192.5	MSTRG.1192.5
scaffold_10	80847671	80867370	MSTRG.1192.6	MSTRG.1192.6
scaffold_10	81279889	81280180	MSTRG.1193.1	MSTRG.1193.1
scaffold_10	81042113	81203548	MSTRG.1194.2	MSTRG.1194.2
scaffold_10	80986176	80998603	MSTRG.1196.7	MSTRG.1196.7
scaffold_10	81022081	81022289	MSTRG.1197.1	MSTRG.1197.1
scaffold_10	81916328	81930454	MSTRG.1202.5	MSTRG.1202.5
scaffold_10	81931614	81931867	MSTRG.1203.1	MSTRG.1203.1
scaffold_10	81991739	82132981	MSTRG.1207.1	MSTRG.1207.1
scaffold_10	81991739	82132981	MSTRG.1207.2	MSTRG.1207.2
scaffold_10	81991815	82132981	MSTRG.1207.3	MSTRG.1207.3
scaffold_10	82617609	82617830	MSTRG.1212.1	MSTRG.1212.1
scaffold_10	9625	23104	MSTRG.741.1	MSTRG.741.1
scaffold_10	167661	167866	MSTRG.743.1	MSTRG.743.1
scaffold_10	448675	451210	MSTRG.748.1	MSTRG.748.1
scaffold_10	247216	247441	MSTRG.751.1	MSTRG.751.1
scaffold_10	3079058	3266429	MSTRG.770.1	MSTRG.770.1
scaffold_10	3079132	3266429	MSTRG.770.2	MSTRG.770.2
scaffold_10	5379912	5471615	MSTRG.780.1	MSTRG.780.1
scaffold_10	5476621	5630038	MSTRG.782.1	MSTRG.782.1

scaffold_10	5506580	5554585	MSTRG.783.1	MSTRG.783.1
scaffold_10	6061107	6061338	MSTRG.793.1	MSTRG.793.1
scaffold_10	12282305	12282537	MSTRG.814.1	MSTRG.814.1
scaffold_10	12548550	12626526	MSTRG.821.1	MSTRG.821.1
scaffold_10	12851553	12851791	MSTRG.829.1	MSTRG.829.1
scaffold_10	13829551	13830045	MSTRG.834.1	MSTRG.834.1
scaffold_10	14639550	14639761	MSTRG.844.1	MSTRG.844.1
scaffold_10	14695411	14697180	MSTRG.845.1	MSTRG.845.1
scaffold_10	14945581	15359502	MSTRG.859.2	MSTRG.859.2
scaffold_10	15171624	15359502	MSTRG.859.5	MSTRG.859.5
scaffold_10	15076681	15106990	MSTRG.860.2	MSTRG.860.2
scaffold_10	15396721	15561997	MSTRG.862.1	MSTRG.862.1
scaffold_10	16716296	16716591	MSTRG.874.1	MSTRG.874.1
scaffold_10	16724240	17777354	MSTRG.883.1	MSTRG.883.1
scaffold_10	17394900	17537316	MSTRG.883.5	MSTRG.883.5
scaffold_10	22151289	22151514	MSTRG.909.1	MSTRG.909.1
scaffold_10	23630282	23630501	MSTRG.914.1	MSTRG.914.1
scaffold_10	26529826	26530057	MSTRG.919.1	MSTRG.919.1
scaffold_10	30829701	30935794	MSTRG.932.4	MSTRG.932.4
scaffold_10	30829701	30935794	MSTRG.932.6	MSTRG.932.6
scaffold_10	37326195	37353698	MSTRG.955.1	MSTRG.955.1
scaffold_10	37660944	37669125	MSTRG.959.2	MSTRG.959.2
scaffold_10	49907718	49907944	MSTRG.967.1	MSTRG.967.1
scaffold_10	62402547	62430262	OBSCN_g1005.t1	OBSCN_g1005.t1
scaffold_10	79389230	79400895	PK2L2_g1117.t1	PK2L2_g1117.t1
scaffold_10	38709349	38713349	PPIA_g918.t1	PPIA_g918.t1
scaffold_10	2453136	2453438	RAI1_g799.t1	RAI1_g799.t1
scaffold_10	65182298	65317773	UB2L3_g1032.t1	UB2L3_g1032.t1
scaffold_10	9480458	9497796	NTCP2_g826.t1	NTCP2
scaffold_10	60590286	60600537	NUD15_g986.t1	NUDT15
scaffold_10	60590220	60600466	MSTRG.1026.1	NUDT15
scaffold_10	57819391	57864027	MSTRG.1002.1	NUFIP1
scaffold_10	57819845	57864027	NUFP1_g964.t1	NUFIP1
scaffold_10	77270546	77308001	NUP58_g1103.t1	NUP58
scaffold_10	31464794	31517966	OBI1_g892.t1	OBI1
scaffold_10	15869989	15943442	OR1FC_g864.t2	OR1FC
scaffold_10	64660047	64666148	ORNT1_g1029.t1	SLC25A15
scaffold_10	78359270	78373313	ORNT1_g1112.t1	SLC25A15
scaffold_10	78364393	78369077	ORNT1_g1113.t1	SLC25A15
scaffold_10	80869194	80869409	MSTRG.1189.1	PABPC4L
scaffold_10	59079518	59104821	PACER_g979.t1	RUBCNL
scaffold_10	74551055	74586238	MSTRG.1156.1	PAN3
scaffold_10	74551704	74688205	MSTRG.1156.2	PAN3
scaffold_10	74554453	74688205	PAN3_g1078.t1	PAN3
scaffold_10	82088954	82132981	MSTRG.1207.4	PARP4

scaffold_10	22513705	22515931	MSTRG.905.1	PAX9
scaffold_10	20105396	20162082	PBCG_g876.t1	PBCG
scaffold_10	11562740	11985304	PCCA_g838.t1	PCCA
scaffold_10	49693169	49783717	PCD17_g931.t1	PCDH17
scaffold_10	49692459	49692670	MSTRG.968.1	PCDH17
scaffold_10	70474411	70668280	MSTRG.1123.1	PDS5B
scaffold_10	70475031	70668280	MSTRG.1123.2	PDS5B
scaffold_10	70475031	70668280	MSTRG.1123.3	PDS5B
scaffold_10	74879620	74883740	PDX1_g1083.t1	PDX1
scaffold_10	65057254	65126746	MSTRG.1087.1	PEX3
scaffold_10	58241705	58248928	VGF_g969.t1	PEX3
scaffold_10	61844701	61845015	PHF11_g998.t1	PHF11
scaffold_10	36335451	36530952	PIBF1_g910.t1	PIBF1
scaffold_10	64465729	64496100	MSTRG.1071.2	PLEKHA2
scaffold_10	9744516	9748005	PLGT2_g829.t2	POGLUT2
scaffold_10	1807051	1826489	PLPP5_g794.t1	PLPP5
scaffold_10	58881042	58911253	PLSL_g977.t1	PLSL
scaffold_10	31518190	31518828	PO4F1_g893.t1	POU4F1
scaffold_10	75166374	75168558	MSTRG.1157.3	POLR1D
scaffold_10	74190807	74208309	POMP_g1076.t1	POMP
scaffold_10	66032657	66067238	MSTRG.1094.1	POSTN
scaffold_10	66032943	66067238	MSTRG.1094.2	POSTN
scaffold_10	66033001	66067238	POSTN_g1035.t1	POSTN
scaffold_10	64719900	64745513	MSTRG.1077.2	PROSER1
scaffold_10	952488	960748	PROZ_g782.t1	PROZ
scaffold_10	81821248	81930454	MSTRG.1202.1	PSPC1
scaffold_10	81821248	81882841	MSTRG.1202.2	PSPC1
scaffold_10	81821428	81901332	PSPC1_g1142.t2	PSPC1
scaffold_10	3041988	3074881	RAB20_g808.t1	RAB20
scaffold_10	14160373	14198422	RAP2A_g854.t1	RAP2A
scaffold_10	14153899	14198422	MSTRG.842.1	RAP2A
scaffold_10	204772	343982	RASA3_g768.t1	RASA3
scaffold_10	60811504	60956480	RB_g989.t1	RB
scaffold_10	60811007	60880922	MSTRG.1028.1	RB1
scaffold_10	60811036	60883821	MSTRG.1028.2	RB1
scaffold_10	60947012	60956777	MSTRG.1028.4	RB1
scaffold_10	30829491	30881453	MSTRG.932.2	RBM26
scaffold_10	30829701	30927072	RBM26_g891.t1	RBM26
scaffold_10	79506507	79517423	RBP2_g1118.t1	RBP2
scaffold_10	61929377	61960120	RCBT1_g999.t1	RCBT1
scaffold_10	60962227	60994404	RCBT2_g991.t1	RCBTB2
scaffold_10	61927514	61977431	MSTRG.1046.3	RCBTB1
scaffold_10	61943650	61959604	MSTRG.1046.5	RCBTB1
scaffold_10	60960001	61005496	MSTRG.1030.1	RCBTB2
scaffold_10	60960001	61006222	MSTRG.1030.2	RCBTB2

scaffold_10	60962029	61005496	MSTRG.1030.3	RCBTB2
scaffold_10	55552	75873	REN3A_g765.t1	UPF3A
scaffold_10	54473239	54508773	RF1M_g946.t1	MTRF1
scaffold_10	69523966	69539923	RFC3_g1049.t1	RFC3
scaffold_10	66804197	66804428	MSTRG.1096.1	RFXAP
scaffold_10	66805108	66812420	RFXAP_g1040.t1	RFXAP
scaffold_10	75169873	75248263	MSTRG.1158.4	RIPOR3
scaffold_10	75519142	75521616	RL21_g1093.t1	RPL21
scaffold_10	36067994	36068206	RL23A_g908.t1	RPL23A
scaffold_10	81272688	81273038	RL7A_g1136.t1	RPL7A
scaffold_10	63190869	63194028	MSTRG.1059.10	RNASEH2B
scaffold_10	63189778	63193505	MSTRG.1059.8	RNASEH2B
scaffold_10	63189778	63193505	MSTRG.1059.9	RNASEH2B
scaffold_10	63192980	63246976	MSTRG.1062.1	RNASEH2B
scaffold_10	82399502	82426677	RNF17_g1145.t1	RNF17
scaffold_10	76480530	76490200	MSTRG.1168.1	RNF6
scaffold_10	76483006	76489311	RNF6_g1099.t2	RNF6
scaffold_10	63194169	63258424	RNH2B_g1009.t1	RNH2B
scaffold_10	75167026	75167401	RPAC2_g1088.t1	POLR1D
scaffold_10	75124468	75168558	RPC22_g1087.t1	POLR1D
scaffold_10	75515196	75524326	MSTRG.1166.1	RPL21
scaffold_10	36532594	36556726	RRP44_g911.t1	RRP44
scaffold_10	75506195	75508189	RSLBA_g1092.t1	RSLBA
scaffold_10	21744137	21777283	RT31_g878.t1	RT31
scaffold_10	59118261	59145336	MSTRG.1015.2	RUBCNL
scaffold_10	59118356	59170495	MSTRG.1015.3	RUBCNL
scaffold_10	59118257	59145336	MSTRG.1015.1	RUBCNL
scaffold_10	13081713	13179241	S15A1_g849.t1	S15A1
scaffold_10	67375553	67389062	S28A3_g1046.t1	SLC28A3
scaffold_10	74159555	74178443	S46A3_g1075.t1	SLC46A3
scaffold_10	78467114	78511627	MSTRG.1177.2	SACS
scaffold_10	78467300	78511627	SACS_g1114.t1	SACS
scaffold_10	80415087	80415851	MSTRG.1183.1	SAP18
scaffold_10	80416893	80423401	SAP18_g1125.t1	SAP18
scaffold_10	22503269	22507710	MSTRG.906.1	SDR42E1
scaffold_10	63636624	63663593	SERP3_g1014.t1	SERP3
scaffold_10	63666484	63666716	MSTRG.1058.1	SERPINE3
scaffold_10	61845100	61919588	MSTRG.1045.1	SETDB2
scaffold_10	61903162	61924848	MSTRG.1045.4	SETDB2
scaffold_10	61845100	61924848	MSTRG.1045.2	SETDB2
scaffold_10	54156934	54196205	SGT1_g941.t1	SUGT1
scaffold_10	76606462	76610478	SHSA2_g1101.t1	SHISA2
scaffold_10	80387001	80409404	SKA3_g1124.t1	SKA3
scaffold_10	73463923	73489241	SL7A1_g1072.t1	SLC7A2
scaffold_10	32256173	32313194	SLAI1_g895.t1	SLAIN1

scaffold_10	78359312	78373313	MSTRG.1175.2	SLC25A15
scaffold_10	78359312	78369077	MSTRG.1175.3	SLC25A15
scaffold_10	58241816	58263202	MSTRG.1009.2	SLC25A30
scaffold_10	58241821	58263202	MSTRG.1009.3	SLC25A30
scaffold_10	74166780	74178443	MSTRG.1151.3	SLC46A3
scaffold_10	73411374	73490170	MSTRG.1150.1	SLC7A1
scaffold_10	73411406	73475747	MSTRG.1150.2	SLC7A1
scaffold_10	73463923	73489241	MSTRG.1150.3	SLC7A1
scaffold_10	27160689	27162779	SLIK1_g887.t1	SLITRK1
scaffold_10	23954813	23957638	SLIK5_g884.t1	SLIK5
scaffold_10	25485991	25488381	SLIK6_g886.t1	SLIK6
scaffold_10	25485862	25488381	SLIK6_g886.t2	SLIK6
scaffold_10	66790406	66790630	MSTRG.1098.1	SMAD9
scaffold_10	66757696	66779472	SMAD9_g1039.t2	SMAD9
scaffold_10	67333714	67358462	SOLH2_g1045.t1	SOLH2
scaffold_10	1839239	1840408	SOX1_g795.t1	SOX1
scaffold_10	67211768	67246855	MSTRG.1119.2	SPART
scaffold_10	77881949	77882253	MSTRG.1171.1	SPATA13
scaffold_10	62250889	62266758	SPRY7_g1003.t1	SPRYD7
scaffold_10	62249776	62249991	MSTRG.1039.1	SPRYD7
scaffold_10	62250250	62250620	MSTRG.1040.1	SPRYD7
scaffold_10	77533322	77880108	SPT13_g1107.t1	SPT13
scaffold_10	30132673	30134330	SPY2_g889.t1	SPY2
scaffold_10	64649542	64664062	MSTRG.1076.1	ST6GALNAC5
scaffold_10	64649542	64661723	MSTRG.1074.3	ST6GALNAC5
scaffold_10	70120736	70179586	STA13_g1050.t1	STARD13
scaffold_10	70010196	70174058	MSTRG.1121.1	STARD13
scaffold_10	70084559	70174056	MSTRG.1121.2	STARD13
scaffold_10	13262474	13378379	MSTRG.835.2	STK24
scaffold_10	13262474	13376922	STK24_g850.t1	STK24
scaffold_10	29116649	29122408	STK31_g888.t1	STK31
scaffold_10	60491966	60536606	SUCB1_g985.t1	SUCLA2
scaffold_10	2937344	2981434	SYCM_g805.t1	CARS2
scaffold_10	57393983	57395988	T22D1_g963.t1	T22D1
scaffold_10	57980199	58117957	T2FB_g966.t1	T2FB
scaffold_10	74795406	74795812	MSTRG.1155.1	TAF1D
scaffold_10	82578215	82635129	TBCB_g1146.t1	TBCB
scaffold_10	58165154	58168854	TCTP_g968.t1	TCTP
scaffold_10	47254641	47412021	MSTRG.961.2	TDRD3
scaffold_10	47291087	47378452	TDRD3_g927.t1	TDRD3
scaffold_10	41413155	41421687	TEN1_g921.t1	TEN1
scaffold_10	2502063	2523283	TEX29_g800.t1	TEX29
scaffold_10	9741282	9748005	MSTRG.804.1	TEX30
scaffold_10	75356029	75367812	TF3A_g1091.t1	GTF3A
scaffold_10	591402	634786	TFDP1_g774.t1	TFDP1

scaffold_10	16563021	16582047	TGDS_g870.t1	TGDS
scaffold_10	64502931	64525494	THSD1_g1027.t1	THSD1
scaffold_10	12390264	12444915	TM9S2_g842.t1	TM9S2
scaffold_10	677379	723900	MSTRG.754.2	TMCC3
scaffold_10	677431	718160	MSTRG.754.3	TMCC3
scaffold_10	677905	718160	TMCO3_g775.t1	TMCO3
scaffold_10	11448555	11504179	TMTC4_g837.t1	TMTC4
scaffold_10	4934613	4964787	TN13B_g815.t2	TNFSF13B
scaffold_10	9843057	9915334	TPP2_g833.t1	TPP2
scaffold_10	58164639	58168854	MSTRG.1008.1	TPT1
scaffold_10	64567773	64661723	TPTE2_g1028.t1	TPTE2
scaffold_10	64634688	64649283	MSTRG.1074.2	TPTE2
scaffold_10	64765836	64766105	MSTRG.1072.1	TPTE2P2
scaffold_10	63176382	63193920	TRI18_g1007.t1	TRI18
scaffold_10	62319263	62338923	MSTRG.1051.2	TRIM13
scaffold_10	65772430	65992536	MSTRG.1092.1	TRPC4
scaffold_10	65772577	65992536	MSTRG.1092.2	TRPC4
scaffold_10	65773334	66003598	MSTRG.1092.3	TRPC4
scaffold_10	65773334	65933651	MSTRG.1092.4	TRPC4
scaffold_10	65840128	65992536	TRPC4_g1034.t2	TRPC4
scaffold_10	57389938	57528081	MSTRG.1001.1	TSC22D1
scaffold_10	57390072	57396868	MSTRG.1001.2	TSC22D1
scaffold_10	57392539	57528081	MSTRG.1001.3	TSC22D1
scaffold_10	57490368	57528081	MSTRG.1001.5	TSC22D1
scaffold_10	16662738	16700816	TYRP2_g871.t2	DCT
scaffold_10	12540813	12706104	UBAC2_g844.t1	UBAC2
scaffold_10	73191642	73191863	MSTRG.1143.1	UBL3
scaffold_10	73262027	73263024	MSTRG.1146.1	UBL3
scaffold_10	73263684	73263891	MSTRG.1148.1	UBL3
scaffold_10	73192397	73261475	UBL3_g1071.t1	UBL3
scaffold_10	67854042	67854244	MSTRG.1113.1	UBOX5
scaffold_10	34096672	34146558	UCHL3_g902.t1	UCHL3
scaffold_10	65333422	65359664	UFM1_g1033.t1	UFM1
scaffold_10	15396797	15585152	UGGG2_g860.t1	UGGT2
scaffold_10	54697	75873	MSTRG.740.1	UPF3A
scaffold_10	72500911	72534205	MSTRG.1138.1	USPL1
scaffold_10	72501461	72534832	MSTRG.1138.2	USPL1
scaffold_10	72501461	72531020	USPL1_g1068.t1	USPL1
scaffold_10	64464749	64496100	VPS36_g1026.t1	VPS36
scaffold_10	54902639	55079131	VWA8_g949.t1	VWA8
scaffold_10	76102298	76110790	MSTRG.1164.1	WASF3
scaffold_10	76102961	76231267	MSTRG.1164.2	WASF3
scaffold_10	76105301	76149298	WASF3_g1097.t1	WASF3
scaffold_10	54279486	54350199	WBP4_g943.t1	WBP4
scaffold_10	63843406	64034547	MSTRG.1066.1	WDFY2

scaffold_10	63843543	64034547	MSTRG.1066.2	WDFY2
scaffold_10	63843757	64029785	WDFY2_g1016.t1	WDFY2
scaffold_10	53060668	53201152	XKR4_g933.t1	XKR4
scaffold_10	80673741	80867370	MSTRG.1192.1	XPO4
scaffold_10	80714161	80776892	MSTRG.1192.3	XPO4
scaffold_10	80674013	80797577	XPO4_g1129.t1	XPO4
scaffold_10	80798094	80803081	XPO4_g1129.t2	XPO4
scaffold_10	80532838	80533128	XRCC3_g1127.t1	XRCC3
scaffold_10	7984374	7984823	YJU2_g822.t1	YJU2
scaffold_10	70890746	70890954	MSTRG.1131.1	ZAR1L
scaffold_10	70891440	70898734	ZAR1L_g1058.t1	ZAR1L
scaffold_10	70891395	70898734	ZAR1L_g1058.t2	ZAR1L
scaffold_10	58715551	58741071	MSTRG.1011.1	ZC3H13
scaffold_10	58715782	58815133	MSTRG.1011.2	ZC3H13
scaffold_10	58719302	58808302	ZC3HD_g975.t1	ZC3H13
scaffold_10	58814396	58815133	ZC3HD_g975.t2	ZC3H13
scaffold_10	80299361	80367476	ZDH20_g1122.t1	ZDHHC20
scaffold_10	80299280	80367476	MSTRG.1180.1	ZDHHC20
scaffold_10	80299306	80369909	MSTRG.1180.2	ZDHHC20
scaffold_10	12057905	12062137	ZIC2_g839.t1	ZIC2
scaffold_10	12072537	12078962	ZIC5_g840.t2	ZIC5
scaffold_10	81558471	81635614	MSTRG.1200.1	ZMYM2
scaffold_10	81761947	81790336	MSTRG.1201.2	ZMYM2
scaffold_10	81561773	81639977	ZMYM2_g1140.t1	ZMYM2
scaffold_10	81663109	81664338	ZMYM2_g1140.t2	ZMYM2
scaffold_10	81665608	81665916	MSTRG.1199.1	ZMYM5
scaffold_10	81761782	81790336	MSTRG.1201.1	ZMYM5
scaffold_10	81762129	81790336	MSTRG.1201.3	ZMYM5
scaffold_10	81767503	81790336	ZMYM5_g1141.t1	ZMYM5
scaffold_11	68231032	68268635	1433T_g1643.t1	YWHAQ
scaffold_11	60741521	60762704	5NT1B_g1595.t1	NT5C1B
scaffold_11	16447388	16607793	AAK1_g1292.t1	AAK1
scaffold_11	16446606	16613287	MSTRG.1356.1	AAK1
scaffold_11	16594607	16613287	MSTRG.1356.3	AAK1
scaffold_11	66055230	66055433	MSTRG.1728.1	ABCA13
scaffold_11	38803359	38820747	ABCG8_g1422.t1	ABCG8
scaffold_11	53417494	53425543	ABHD1_g1532.t1	ABHD1
scaffold_11	53417647	53422012	MSTRG.1641.2	ABHD1
scaffold_11	53417672	53425543	MSTRG.1641.3	ABHD1
scaffold_11	53417750	53422012	MSTRG.1641.4	ABHD1
scaffold_11	75939871	75956690	MSTRG.1805.2	ACP1
scaffold_11	29947734	29948160	ACYP2_g1380.t1	ACYP2
scaffold_11	29779207	29948160	MSTRG.1456.1	ACYP2
scaffold_11	68286650	68345372	ADA17_g1644.t1	ADAM17
scaffold_11	68286512	68345372	MSTRG.1756.1	ADAM17

scaffold_11	68338345	68345372	MSTRG.1756.3	ADAM17
scaffold_11	68343904	68361105	MSTRG.1757.1	ADAM17
scaffold_11	47091651	47091877	MSTRG.1588.1	ADGRE1
scaffold_11	20772227	20812061	AFTIN_g1327.t1	AFTPH
scaffold_11	20771257	20840108	MSTRG.1381.1	AFTPH
scaffold_11	20771257	20840108	MSTRG.1381.2	AFTPH
scaffold_11	20771280	20840108	MSTRG.1381.3	AFTPH
scaffold_11	53466676	53499653	MSTRG.1656.1	AGBL5
scaffold_11	53466676	53485194	MSTRG.1656.2	AGBL5
scaffold_11	53466679	53485194	MSTRG.1656.4	AGBL5
scaffold_11	53466679	53485194	MSTRG.1656.5	AGBL5
scaffold_11	54137846	54147711	AGRF3_g1548.t1	ADGRF3
scaffold_11	23694069	23719605	MSTRG.1414.1	AHSA1
scaffold_11	23694428	23718048	MSTRG.1414.2	AHSA1
scaffold_11	12976813	13201746	ALMS1_g1252.t1	ALMS1
scaffold_11	12975708	13201746	MSTRG.1324.1	ALMS1
scaffold_11	12976519	13201746	MSTRG.1324.2	ALMS1
scaffold_11	12976558	13201746	MSTRG.1324.3	ALMS1
scaffold_11	15242480	15247850	ANR53_g1272.t1	ANKRD53
scaffold_11	16784430	17003906	ANTR1_g1295.t1	ANTXR1
scaffold_11	16292737	16355438	MSTRG.1355.1	ANXA4
scaffold_11	11755576	11760325	MSTRG.1278.1	AOC1
scaffold_11	17362488	17451095	APLF_g1304.t1	APLF
scaffold_11	17361395	17361633	MSTRG.1359.1	APLF
scaffold_11	17362186	17451095	MSTRG.1361.1	APLF
scaffold_11	16174594	16175373	APRV1_g1287.t1	ASPRV1
scaffold_11	53330980	53335075	ARAID_g1526.t1	ATRAID
scaffold_11	43147837	43199114	ARG33_g1445.t1	ARHGEF33
scaffold_11	68886007	69003868	MSTRG.1762.3	KIDINS220
scaffold_11	68886007	69003868	MSTRG.1762.4	KIDINS220
scaffold_11	20192699	20224660	ARP2_g1322.t1	ACTR2
scaffold_11	68420835	68598967	ASAP2_g1648.t1	ASAP2
scaffold_11	30245068	30313542	ASB3_g1385.t1	ASB3
scaffold_11	13156072	13201746	MSTRG.1324.5	ASPH
scaffold_11	16154323	16169698	MSTRG.1350.2	ASPRV1
scaffold_11	54481687	54542864	MSTRG.1659.1	ASXL2
scaffold_11	54481704	54631895	MSTRG.1659.2	ASXL2
scaffold_11	56127054	56277786	MSTRG.1686.1	ATAD2B
scaffold_11	56127054	56277786	MSTRG.1686.2	ATAD2B
scaffold_11	56127066	56277786	MSTRG.1686.3	ATAD2B
scaffold_11	56127103	56269712	MSTRG.1686.4	ATAD2B
scaffold_11	56127103	56277786	MSTRG.1686.5	ATAD2B
scaffold_11	56244475	56274829	MSTRG.1686.7	ATAD2B
scaffold_11	56255505	56274829	MSTRG.1686.8	ATAD2B
scaffold_11	1996458	1996672	MSTRG.1231.1	ATG2A

scaffold_11	43644703	43713726	MSTRG.1556.2	ATL2
scaffold_11	43675131	43713726	MX1_g1454.t1	ATL2
scaffold_11	43644669	43645862	ATLA2_g1453.t1	ATL2
scaffold_11	15239812	15241813	MSTRG.1338.1	ATPAF1
scaffold_11	12186713	12189673	AUP1_g1220.t1	AUP1
scaffold_11	22843917	22845119	B3GN2_g1338.t1	B3GNT2
scaffold_11	22839570	22868208	MSTRG.1391.1	B3GNT2
scaffold_11	24258001	24348879	BC11A_g1355.t1	BCL11A
scaffold_11	24346834	24348879	BC11A_g1356.t1	BCL11A
scaffold_11	48369168	48605164	BIRC6_g1477.t1	BIRC6
scaffold_11	48367654	48605164	MSTRG.1594.1	BIRC6
scaffold_11	48367654	48605164	MSTRG.1594.2	BIRC6
scaffold_11	48367905	48605164	MSTRG.1594.3	BIRC6
scaffold_11	48506288	48526010	MSTRG.1594.5	BIRC6
scaffold_11	12546822	12557301	BOLA3_g1240.t1	BOLA3
scaffold_11	12551193	12563464	MSTRG.1308.2	BOLA3
scaffold_11	44261476	44264769	BORG2_g1458.t1	CDC42EP3
scaffold_11	9246028	9356113	MSTRG.1262.1	BRCC3
scaffold_11	52338320	52786912	MSTRG.1616.1	BABAM2
scaffold_11	43496817	43497060	MSTRG.1552.1	C15ORF40
scaffold_11	17780049	17785897	C1D_g1312.t1	C1D
scaffold_11	15982251	16004972	MSTRG.1347.2	C2ORF42
scaffold_11	2158971	2164495	MSTRG.1233.1	C2ORF68
scaffold_11	2159095	2161458	T150A_g1172.t1	C2ORF68
scaffold_11	12503862	12504746	MSTRG.1299.1	C2ORF78
scaffold_11	12505357	12506174	MSTRG.1300.1	C2ORF78
scaffold_11	12486399	12486712	MSTRG.1307.1	C2ORF78
scaffold_11	43642855	43643072	MSTRG.1558.1	C8ORF48
scaffold_11	48746329	48746627	MSTRG.1601.1	CA5B
scaffold_11	53306455	53334415	MSTRG.1642.1	CAD
scaffold_11	53306476	53335075	MSTRG.1642.2	CAD
scaffold_11	35866195	35880916	CALM_g1399.t1	CALM2
scaffold_11	49772592	49831917	CAN14_g1488.t1	CAPN14
scaffold_11	17610552	17670085	CANB1_g1309.t1	PPP3R1
scaffold_11	2330325	2336984	CAPG_g1180.t1	CAPG
scaffold_11	2323621	2336984	MSTRG.1245.1	CAPG
scaffold_11	62860861	62861370	CASP4_g1610.t1	CASP4
scaffold_11	15983383	16004523	CB042_g1284.t1	C2ORF42
scaffold_11	15982909	16004523	CB042_g1284.t2	C2ORF42
scaffold_11	66915343	66922042	CB050_g1628.t1	C2ORF50
scaffold_11	12274574	12279041	CB081_g1234.t1	C2orf81
scaffold_11	53466676	53483507	CBPC5_g1536.t1	AGBL5
scaffold_11	53491783	53499653	CBPC5_g1536.t2	AGBL5
scaffold_11	53020793	53021605	CC121_g1508.t1	CCDC121
scaffold_11	12227570	12233660	CC142_g1227.t1	CCDC142

scaffold_11	27853906	28043671	CC85A_g1361.t1	CCDC85A
scaffold_11	53022087	53022319	MSTRG.1627.1	CCDC121
scaffold_11	27850340	28043671	MSTRG.1433.2	CCDC88A
scaffold_11	27858482	27866672	MSTRG.1434.1	CCDC88A
scaffold_11	28740545	28850916	MSTRG.1444.2	CCDC88A
scaffold_11	28740576	28850916	MSTRG.1444.4	CCDC88A
scaffold_11	28740576	28850916	MSTRG.1444.5	CCDC88A
scaffold_11	28805740	28819304	MSTRG.1445.1	CCDC88A
scaffold_11	28819357	28826577	MSTRG.1446.1	CCDC88A
scaffold_11	23088993	23103047	CCL26_g1343.t1	CCL26
scaffold_11	23102280	23116963	MSTRG.1405.1	CCT4
scaffold_11	44239287	44271169	MSTRG.1561.1	CDC42EP3
scaffold_11	44239287	44271459	MSTRG.1561.2	CDC42EP3
scaffold_11	42883256	42915512	CDKL4_g1443.t1	CDKL4
scaffold_11	44615826	44641128	CEBPZ_g1463.t1	CEBPZ
scaffold_11	44615806	44641128	MSTRG.1572.1	CEBPZ
scaffold_11	44639621	44648273	MSTRG.1573.1	CEBPZ
scaffold_11	53708480	53713154	CENPA_g1538.t1	CENPA
scaffold_11	53706847	53713154	MSTRG.1662.1	CENPA
scaffold_11	55392494	55403428	CENPO_g1562.t1	CENPO
scaffold_11	55391890	55405311	MSTRG.1677.1	CENPO
scaffold_11	55391894	55405311	MSTRG.1677.2	CENPO
scaffold_11	55391894	55405311	MSTRG.1677.3	CENPO
scaffold_11	20356013	20356427	MSTRG.1374.1	CEP68
scaffold_11	20357831	20380885	MSTRG.1375.1	CEP68
scaffold_11	28593792	28625641	CFA36_g1365.t1	CFAP36
scaffold_11	53437630	53439962	CGRE1_g1533.t1	CGREF1
scaffold_11	22908219	22908527	CH10_g1339.t1	HSPE1
scaffold_11	30233087	30241193	CHAC2_g1384.t1	CHAC2
scaffold_11	4346616	4346818	MSTRG.1255.1	CHCHD5
scaffold_11	1247541	1330595	CHMP3_g1159.t1	CHMP3
scaffold_11	1246976	1330595	MSTRG.1224.1	CHMP3
scaffold_11	29142039	29142243	MSTRG.1449.1	CHRNA3
scaffold_11	28899396	28942889	CLHC1_g1372.t1	CLHC1
scaffold_11	51611840	51662951	CLIP4_g1494.t1	CLIP4
scaffold_11	66022993	66023202	MSTRG.1724.1	CLOCK
scaffold_11	37987325	38355521	CMKMT_g1417.t1	CAMKMT
scaffold_11	70518814	70529112	CMPK2_g1656.t1	CMPK2
scaffold_11	70529257	70529490	MSTRG.1767.1	CMPK2
scaffold_11	54408336	54408735	CO6A5_g1553.t1	COL6A5
scaffold_11	59062005	59067107	CO6A5_g1583.t1	COL6A5
scaffold_11	73041656	73072493	COL11_g1669.t1	COLEC11
scaffold_11	55109155	55112153	COLI_g1558.t1	POMC
scaffold_11	22921042	23086885	COMD1_g1340.t1	COMMD1
scaffold_11	22920116	22978304	MSTRG.1399.1	COMMD1

scaffold_11	40031092	40045288	COX7R_g1433.t1	COX7R
scaffold_11	43896651	43901584	CP1B1_g1456.t1	CYP1B1
scaffold_11	14320223	14336069	CP26B_g1266.t1	CYP26B1
scaffold_11	68363166	68404465	CPSF3_g1646.t1	CPSF3
scaffold_11	68362982	68398444	MSTRG.1758.1	CPSF3
scaffold_11	45191184	45381668	CRIM1_g1471.t1	CRIM1
scaffold_11	45189061	45189958	MSTRG.1583.1	CRIM1
scaffold_11	45190130	45381668	MSTRG.1584.1	CRIM1
scaffold_11	45192928	45381668	MSTRG.1584.3	CRIM1
scaffold_11	36324461	36331309	CRIPT_g1404.t1	CRIPT
scaffold_11	6659144	6938796	CTNA2_g1197.t1	CTNNA2
scaffold_11	7275734	7380487	CTNA2_g1200.t1	CTNNA2
scaffold_11	6655613	6696845	MSTRG.1266.1	CTNNA2
scaffold_11	6658244	7717623	MSTRG.1266.2	CTNNA2
scaffold_11	6699695	6724398	MSTRG.1266.4	CTNNA2
scaffold_11	6880351	6894414	MSTRG.1266.5	CTNNA2
scaffold_11	2183933	2184154	MSTRG.1237.1	CTPS2
scaffold_11	34620881	34621416	MSTRG.1481.1	CXORF38
scaffold_11	43895804	43904189	MSTRG.1557.1	CYP1B1
scaffold_11	67842515	67867886	CYS1_g1639.t1	CYS1
scaffold_11	49087019	49087496	MSTRG.1596.1	CYTB
scaffold_11	17687637	17704111	DAA10_g1311.t1	DNAAF10
scaffold_11	38846432	38887959	DC2L1_g1424.t1	DYNC2LI1
scaffold_11	67536798	67541051	DCOR_g1635.t1	ODC1
scaffold_11	12300154	12330784	MSTRG.1297.1	DCTN1
scaffold_11	12300332	12330784	MSTRG.1297.2	DCTN1
scaffold_11	63177943	63215851	DDX1_g1613.t1	DDX1
scaffold_11	43750887	43751858	DFFA_g1455.t1	DFFA
scaffold_11	12717271	12749084	DGUOK_g1242.t1	DGUOK
scaffold_11	12717082	12749084	MSTRG.1311.1	DGUOK
scaffold_11	12717095	12728487	MSTRG.1311.2	DGUOK
scaffold_11	12717099	12749084	MSTRG.1311.3	DGUOK
scaffold_11	12717099	12749084	MSTRG.1311.4	DGUOK
scaffold_11	43237133	43286840	DHX57_g1446.t1	DHX57
scaffold_11	43228838	43288576	MSTRG.1548.1	DHX57
scaffold_11	43228838	43278510	MSTRG.1548.2	DHX57
scaffold_11	43228844	43288576	MSTRG.1548.3	DHX57
scaffold_11	55248615	55277621	DJC27_g1560.t1	DNAJC27
scaffold_11	54985925	55058588	DNM3A_g1557.t1	DNMT3A
scaffold_11	54959182	55065816	MSTRG.1673.1	DNMT3A
scaffold_11	12161758	12164158	DOK1_g1217.t1	DOK1
scaffold_11	18490889	18491101	MSTRG.1368.1	DPF3
scaffold_11	11778188	11786449	DPOE4_g1211.t1	POLE4
scaffold_11	48876720	48888480	DPY30_g1482.t1	DPY30
scaffold_11	53504850	53508696	DPYL5_g1537.t1	DPYSL5

scaffold_11	53581574	53630134	DPYL5_g1537.t2	DPYSL5
scaffold_11	12190601	12196928	DQX1_g1221.t1	DQX1
scaffold_11	54010213	54058937	DRC1_g1546.t1	DRC1
scaffold_11	54701944	54893697	DTNB_g1556.t1	DTNB
scaffold_11	54674586	54931757	MSTRG.1670.1	DTNB
scaffold_11	54674586	54931757	MSTRG.1670.2	DTNB
scaffold_11	12491905	12496352	DUS11_g1238.t1	DUSP11
scaffold_11	12851664	12868117	DUS11_g1245.t1	DUSP11
scaffold_11	12880982	12885770	DUS11_g1245.t2	DUSP11
scaffold_11	2863148	3132403	DYH6_g1190.t2	DYH6
scaffold_11	14754063	14947319	DYSF_g1267.t1	DYSF
scaffold_11	44688834	44711993	E2AK2_g1465.t2	EIF2AK2
scaffold_11	446415	518163	E2AK3_g1148.t1	EIF2AK3
scaffold_11	66618226	66637120	E2F6_g1624.t1	E2F6
scaffold_11	66617775	66639860	MSTRG.1736.1	E2F6
scaffold_11	66617954	66639860	MSTRG.1736.2	E2F6
scaffold_11	66617989	66639860	MSTRG.1736.3	E2F6
scaffold_11	66618054	66639860	MSTRG.1736.4	E2F6
scaffold_11	66618226	66639860	MSTRG.1736.5	E2F6
scaffold_11	54187728	54234019	ECHA_g1550.t1	HADHA
scaffold_11	54155638	54187605	ECHB_g1549.t1	HADHB
scaffold_11	56137696	56274829	EFG_g1575.t1	GFM1
scaffold_11	55117605	55201581	EFR3B_g1559.t1	EFR3B
scaffold_11	55115338	55115920	MSTRG.1671.1	EFR3B
scaffold_11	55117850	55118081	MSTRG.1676.1	EFR3B
scaffold_11	22120596	22416545	EHBP1_g1335.t1	EHBP1
scaffold_11	22119624	22463873	MSTRG.1387.1	EHBP1
scaffold_11	22463469	22463952	MSTRG.1388.1	EHBP1
scaffold_11	49713734	49740405	EHD3_g1487.t1	EHD3
scaffold_11	53213399	53217698	EI2BD_g1519.t1	EIF2B4
scaffold_11	44712766	44713138	MSTRG.1565.1	EIF2AK2
scaffold_11	44716118	44716323	MSTRG.1567.1	EIF2AK2
scaffold_11	446222	518163	MSTRG.1214.1	EIF2AK3
scaffold_11	53213082	53217698	MSTRG.1635.1	EIF2B4
scaffold_11	53213772	53217698	MSTRG.1635.3	EIF2B4
scaffold_11	73287892	73435194	EIPR1_g1674.t1	EIPR1
scaffold_11	2338139	2367253	MSTRG.1247.1	ELMOD3
scaffold_11	2338563	2367253	MSTRG.1247.2	ELMOD3
scaffold_11	2339859	2367253	MSTRG.1247.3	ELMOD3
scaffold_11	40067611	40166696	EMAL4_g1434.t1	EML4
scaffold_11	29134634	29397333	EMAL6_g1374.t1	EML6
scaffold_11	53452159	53459120	EMIL1_g1535.t1	EMILIN1
scaffold_11	40062060	40166696	MSTRG.1526.1	EML4
scaffold_11	40062060	40224713	MSTRG.1526.2	EML4
scaffold_11	40064671	40224713	MSTRG.1526.3	EML4

scaffold_11	40065255	40133416	MSTRG.1526.4	EML4
scaffold_11	40065296	40125252	MSTRG.1526.5	EML4
scaffold_11	29398695	29398901	MSTRG.1450.1	EML6
scaffold_11	36523538	36607472	EPAS1_g1410.t1	EPAS1
scaffold_11	35676740	35688367	EPCAM_g1398.t1	EPCAM
scaffold_11	54075007	54115094	EPT1_g1547.t1	SELENOI
scaffold_11	30179258	30207413	ERLEC_g1383.t1	ERLEC1
scaffold_11	30207405	30315080	MSTRG.1467.1	ERLEC1
scaffold_11	18311305	18324053	ETAA1_g1315.t1	ETAA1
scaffold_11	18308834	18324053	MSTRG.1370.1	ETAA1
scaffold_11	11293457	11309720	EVA1A_g1209.t1	EVA1A
scaffold_11	13697299	14292982	MSTRG.1332.1	EXOC6B
scaffold_11	76153630	76154571	F110C_g1692.t1	F110C
scaffold_11	23130303	23153122	F161A_g1345.t1	F161A
scaffold_11	47506766	47554068	FA98A_g1472.t1	FAM98A
scaffold_11	872486	878366	FABPL_g1151.t1	FABPL
scaffold_11	15884310	15889014	MSTRG.1340.1	FAM136A
scaffold_11	12563622	12563849	MSTRG.1309.1	FAM151B
scaffold_11	23129882	23153122	MSTRG.1408.1	FAM161A
scaffold_11	55933901	55994357	MSTRG.1693.1	FAM228B
scaffold_11	55933908	55957633	MSTRG.1693.2	FAM228B
scaffold_11	55933912	55988449	MSTRG.1693.3	FAM228B
scaffold_11	55933912	55988449	MSTRG.1693.4	FAM228B
scaffold_11	27716437	27716665	MSTRG.1428.1	TENT5A
scaffold_11	64023208	64057253	MSTRG.1718.1	LRATD1
scaffold_11	47537223	47555401	MSTRG.1577.2	FAM98A
scaffold_11	26320596	26406468	MSTRG.1422.1	FANCL
scaffold_11	26320596	26406468	MSTRG.1422.2	FANCL
scaffold_11	26320596	26406468	MSTRG.1422.3	FANCL
scaffold_11	26406333	26511997	VRK2_g1358.t1	FANCL
scaffold_11	28283187	28339101	FBLN3_g1362.t1	EFEMP1
scaffold_11	28283163	28339101	FBLN3_g1362.t2	FBLN3
scaffold_11	35250489	35340981	FBX11_g1394.t1	FBX11
scaffold_11	13292814	13302292	FBX41_g1254.t1	FBX41
scaffold_11	17453625	17456112	FBX48_g1305.t1	FBXO48
scaffold_11	35249725	35319277	MSTRG.1487.1	FBXO11
scaffold_11	35334149	35340981	MSTRG.1487.3	FBXO11
scaffold_11	17451489	17456762	MSTRG.1362.1	FBXO48
scaffold_11	45147708	45187598	FEZ2_g1470.t1	FEZ2
scaffold_11	45147708	45187598	MSTRG.1574.1	FEZ2
scaffold_11	56007963	56017751	FKB1B_g1570.t1	FKB1B
scaffold_11	70338001	70482464	MSTRG.1764.1	FMO4
scaffold_11	53119135	53121780	FNDC4_g1512.t1	FNDC4
scaffold_11	53118518	53121780	MSTRG.1629.1	FNDC4
scaffold_11	52263839	52281802	FOSL2_g1500.t1	FOSL2

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scaffold_11	34859778	34916440	MSTRG.1485.1	FOXN2
scaffold_11	21687928	22065999	FRITZ_g1333.t1	FRITZ
scaffold_11	34204458	34398576	MSTRG.1484.1	FSHR
scaffold_11	34204458	34398576	MSTRG.1484.2	FSHR
scaffold_11	34204458	34380114	MSTRG.1484.3	FSHR
scaffold_11	34204467	34446391	MSTRG.1484.4	FSHR
scaffold_11	34204467	34380114	MSTRG.1484.5	FSHR
scaffold_11	66031601	66088346	MSTRG.1726.2	GABRB1
scaffold_11	43348500	43401717	GALM_g1450.t1	GALM
scaffold_11	43347405	43347699	MSTRG.1545.1	GALM
scaffold_11	2211991	2214118	MSTRG.1242.1	GALNT7
scaffold_11	54237186	54249877	GARE2_g1551.t1	GAREM2
scaffold_11	11085263	11127521	GCFC2_g1207.t1	GCFC2
scaffold_11	11085182	11128365	MSTRG.1276.1	GCFC2
scaffold_11	11085200	11128365	MSTRG.1276.2	GCFC2
scaffold_11	53095742	53116903	GCKR_g1511.t1	GCKR
scaffold_11	58953298	58957089	GDF7_g1581.t1	GDF7
scaffold_11	43299918	43302862	GEMI6_g1447.t1	GEMIN6
scaffold_11	43299090	43303514	MSTRG.1550.1	GEMIN6
scaffold_11	43299722	43303456	MSTRG.1550.2	GEMIN6
scaffold_11	61398819	61418469	GEN_g1600.t1	GEN
scaffold_11	61394765	61425861	MSTRG.1709.3	GEN1
scaffold_11	61398819	61425861	MSTRG.1709.4	GEN1
scaffold_11	61394064	61425861	MSTRG.1709.2	GEN1
scaffold_11	16654936	16717154	GFPT1_g1294.t1	GFPT1
scaffold_11	66030511	66043567	MSTRG.1726.1	GIPC2
scaffold_11	16240593	16289820	GMCL1_g1290.t1	GMCL1
scaffold_11	16239076	16289820	MSTRG.1354.1	GMCL1
scaffold_11	16240087	16271869	MSTRG.1354.2	GMCL1
scaffold_11	53001483	53019580	GPN1_g1506.t1	GPN1
scaffold_11	53000647	53000902	MSTRG.1623.1	GPN1
scaffold_11	30155869	30157491	GPR75_g1382.t1	GPR75
scaffold_11	44721199	44730230	GPT11_g1466.t1	GPATCH11
scaffold_11	28705816	28802733	GRDN_g1366.t1	CCDC88A
scaffold_11	66463819	66541366	GREB1_g1623.t1	GREB1
scaffold_11	66460940	66607364	MSTRG.1731.1	GREB1
scaffold_11	66460940	66607364	MSTRG.1731.2	GREB1
scaffold_11	66460940	66607364	MSTRG.1731.3	GREB1
scaffold_11	66460940	66607364	MSTRG.1731.4	GREB1
scaffold_11	66460940	66607364	MSTRG.1731.5	GREB1
scaffold_11	66462178	66605197	MSTRG.1731.6	GREB1
scaffold_11	67929758	67979270	GRHL1_g1641.t1	GRHL1
scaffold_11	67968013	67970950	MSTRG.1741.2	GRHL1
scaffold_11	34623243	34680673	STON1_g1390.t1	GTF2A1L

scaffold_11	53220449	53241444	MSTRG.1636.1	GTF3C2
scaffold_11	53220845	53241444	MSTRG.1636.2	GTF3C2
scaffold_11	58973071	59003962	H1BP3_g1582.t1	HS1BP3
scaffold_11	44730289	44832316	MSTRG.1581.1	HEATR5B
scaffold_11	68270307	68270643	MSTRG.1748.1	HMX3
scaffold_11	43457701	43493454	HNRLL_g1451.t1	HNRLL
scaffold_11	43494032	43494359	MSTRG.1551.1	HNRNPLL
scaffold_11	43451967	43458346	MSTRG.1553.1	HNRNPLL
scaffold_11	43457149	43493454	MSTRG.1554.1	HNRNPLL
scaffold_11	43457364	43493454	MSTRG.1554.2	HNRNPLL
scaffold_11	43457364	43493454	MSTRG.1554.3	HNRNPLL
scaffold_11	43457515	43480073	MSTRG.1554.4	HNRNPLL
scaffold_11	67551250	67668866	MSTRG.1752.2	HPCAL1
scaffold_11	67551250	67668866	MSTRG.1752.1	HPCAL1
scaffold_11	67552536	67559005	HPCL1_g1636.t1	HPCL1
scaffold_11	59005463	59005689	MSTRG.1690.1	HS1BP3
scaffold_11	39993735	39994031	HSP7C_g1432.t1	HSPA8
scaffold_11	73156959	73157171	MSTRG.1774.1	HTR1E
scaffold_11	44731207	44832316	HTR5B_g1467.t1	HTR5B
scaffold_11	12183380	12186330	HTRA2_g1219.t1	HTRA2
scaffold_11	12183200	12186330	MSTRG.1284.1	HTRA2
scaffold_11	11838242	11896227	HXK2_g1213.t1	HXK2
scaffold_11	68345657	68361105	IAH1_g1645.t1	IAH1
scaffold_11	68345788	68361105	MSTRG.1757.3	IAH1
scaffold_11	68351404	68361105	MSTRG.1757.4	IAH1
scaffold_11	69033002	69033708	ID2_g1653.t1	ID2
scaffold_11	69031324	69033708	MSTRG.1761.1	ID2
scaffold_11	53123435	53155977	IF172_g1513.t1	IF172
scaffold_11	28872231	28890022	IF2M_g1370.t1	IF2M
scaffold_11	53149019	53154913	MSTRG.1630.2	IFT172
scaffold_11	44717179	44717459	MSTRG.1569.1	IKBKG
scaffold_11	12245606	12249337	IN80B_g1231.t1	IN80B
scaffold_11	12242212	12249337	MSTRG.1293.1	INO80B
scaffold_11	12242807	12249337	MSTRG.1293.2	INO80B
scaffold_11	40579462	40589644	ITA3_g1436.t1	ITGA3
scaffold_11	68408931	68417728	ITBP1_g1647.t1	ITGB1BP1
scaffold_11	68404563	68417728	MSTRG.1759.1	ITGB1BP1
scaffold_11	23959666	24000290	MSTRG.1417.1	ITIH6
scaffold_11	23959848	24000290	MSTRG.1417.2	ITIH6
scaffold_11	55775068	55881584	MSTRG.1680.1	ITSN2
scaffold_11	55775396	55915838	MSTRG.1680.2	ITSN2
scaffold_11	55775520	55881584	MSTRG.1680.3	ITSN2
scaffold_11	55775520	55915838	MSTRG.1680.4	ITSN2
scaffold_11	55815194	55825793	MSTRG.1680.6	ITSN2
scaffold_11	55826665	55831320	MSTRG.1680.7	ITSN2

scaffold_11	55831399	55881584	MSTRG.1680.8	ITSN2
scaffold_11	23778601	23839393	K1841_g1350.t1	SANBR
scaffold_11	2645447	2652018	KCMF1_g1186.t1	KCMF1
scaffold_11	2640412	2713095	MSTRG.1257.1	KCMF1
scaffold_11	39927662	39965096	KCNG3_g1431.t1	KCNG3
scaffold_11	39927662	39965096	KCNG3_g1431.t2	KCNG3
scaffold_11	70395396	70456478	MSTRG.1764.5	KCNJ4
scaffold_11	53758236	53758496	KCNK3_g1540.t1	KCNK3
scaffold_11	53758681	53794355	KCNK3_g1541.t1	KCNK3
scaffold_11	53755958	53758112	MSTRG.1644.1	KCNK3
scaffold_11	56077276	56077494	KCNKG_g1574.t1	KCNKG
scaffold_11	68898771	69003868	KDIS_g1652.t1	KIDINS220
scaffold_11	1357139	1406704	KDM3A_g1160.t1	KDM3A
scaffold_11	1355960	1407372	MSTRG.1228.1	KDM3A
scaffold_11	1356208	1407372	MSTRG.1228.2	KDM3A
scaffold_11	1374191	1386358	MSTRG.1228.4	KDM3A
scaffold_11	1389616	1393929	MSTRG.1228.5	KDM3A
scaffold_11	53441573	53450824	KHK_g1534.t1	KHK
scaffold_11	23776784	23839393	MSTRG.1418.1	KIAA1841
scaffold_11	68886003	69003868	MSTRG.1762.1	KIDINS220
scaffold_11	68886006	69003868	MSTRG.1762.2	KIDINS220
scaffold_11	54408865	54442313	KIF3C_g1554.t1	KIF3C
scaffold_11	54443933	54444140	MSTRG.1666.1	KIF3C
scaffold_11	67879422	67888146	KLF11_g1640.t1	KLF11
scaffold_11	56303630	56610080	KLH29_g1576.t1	KLH29
scaffold_11	44517290	44596532	KPCD3_g1461.t1	PRKD3
scaffold_11	36698688	37182130	KPCE_g1411.t1	PRKCE
scaffold_11	955754	957229	KRCC1_g1153.t1	KRCC1
scaffold_11	939202	957229	MSTRG.1220.1	KRCC1
scaffold_11	939202	957229	MSTRG.1220.2	KRCC1
scaffold_11	939202	957229	MSTRG.1220.3	KRCC1
scaffold_11	26644852	26645112	L2GL1_g1360.t1	L2GL1
scaffold_11	59502071	59518134	LAP4A_g1589.t1	LAP4A
scaffold_11	50631880	50654570	LBH_g1492.t1	LBH
scaffold_11	12214596	12216223	LBX2_g1225.t1	LBX2
scaffold_11	50266641	50456512	MSTRG.1608.1	LCLAT1
scaffold_11	50270197	50377400	MSTRG.1608.2	LCLAT1
scaffold_11	50270499	50387731	LCLT1_g1491.t1	LCLAT1
scaffold_11	58852552	58938766	LDAH_g1580.t1	LDAH
scaffold_11	20893241	20900557	MSTRG.1383.1	LGALSL
scaffold_11	34561482	34617120	MSTRG.1471.1	LHCGR
scaffold_11	34561527	34616448	MSTRG.1471.2	LHCGR
scaffold_11	67807263	67871726	MSTRG.1744.1	LIPM
scaffold_11	68280094	68280551	MSTRG.1749.1	LIPM
scaffold_11	17925137	17925352	LOC000000019_g1313.t1	LOC000000019

scaffold_11	70339092	70482464	MSTRG.1764.3	LOC111770601
scaffold_11	16023484	16023729	MSTRG.1346.1	LOC111775555
scaffold_11	12164950	12183184	MSTRG.1283.1	LOXL3
scaffold_11	66312052	66381500	MSTRG.1721.1	LPIN1
scaffold_11	66312052	66381500	MSTRG.1721.2	LPIN1
scaffold_11	64020852	64021769	LRAT1_g1615.t1	LRAT1
scaffold_11	34623675	34623893	MSTRG.1474.1	LRP4
scaffold_11	38795960	38796625	MSTRG.1514.1	LRPPRC
scaffold_11	6992525	7059894	LRRT1_g1198.t1	LRRTM1
scaffold_11	6992210	7059894	LRRT1_g1198.t2	LRRTM1
scaffold_11	9481916	9485298	LRRT4_g1204.t1	LRRT4
scaffold_11	6989419	7104049	MSTRG.1268.1	LRRTM1
scaffold_11	6992525	7177150	MSTRG.1268.4	LRRTM1
scaffold_11	47701223	48082514	MSTRG.1585.2	LTBP1
scaffold_11	47701223	48084449	MSTRG.1585.1	LTBP1
scaffold_11	42665834	42865992	M4K3_g1442.t1	MAP4K3
scaffold_11	16195661	16216546	MAD1_g1288.t1	MAD1
scaffold_11	42665381	42865992	MSTRG.1543.1	MAP4K3
scaffold_11	42665557	42865992	MSTRG.1543.2	MAP4K3
scaffold_11	42665742	42838283	MSTRG.1543.3	MAP4K3
scaffold_11	53504341	53504753	MSTRG.1668.1	MAPRE3
scaffold_11	2214399	2217876	MSTRG.1243.1	MAT2A
scaffold_11	2214472	2221272	MSTRG.1243.2	MAT2A
scaffold_11	68744613	68872416	MSTRG.1760.1	MBOAT2
scaffold_11	36086825	36090870	MCFD2_g1402.t1	MCFD2
scaffold_11	36080670	36090870	MSTRG.1494.1	MCFD2
scaffold_11	21670594	21687611	MDHC_g1332.t1	MDFIC
scaffold_11	19049341	19175844	MEIS1_g1317.t1	MEIS1
scaffold_11	48962290	49042462	MEMO1_g1483.t1	MEMO1
scaffold_11	48895596	49042462	MSTRG.1599.1	MEMO1
scaffold_11	48895918	49042462	MSTRG.1599.2	MEMO1
scaffold_11	48896158	49028687	MSTRG.1599.3	MEMO1
scaffold_11	49020158	49042462	MSTRG.1599.5	MEMO1
scaffold_11	49045982	49046267	MSTRG.1602.1	MEMO1
scaffold_11	2214988	2221272	METK2_g1177.t1	MAT2A
scaffold_11	56051607	56063743	MFS2B_g1572.t1	MFS2B
scaffold_11	27698671	27698878	MSTRG.1431.1	MGAT5
scaffold_11	1606859	1651389	MIC60_g1163.t1	IMMT
scaffold_11	36700529	36700761	MSTRG.1506.1	MICB
scaffold_11	70882733	70882981	MKRN3_g1659.t1	MKRN3
scaffold_11	12521085	12539333	MOB1A_g1239.t1	MOB1A
scaffold_11	12539666	12542490	MSTRG.1302.1	MOB1A
scaffold_11	12238650	12242465	MSTRG.1292.1	MOGS
scaffold_11	19270260	19270742	MOT10_g1318.t1	MOT10
scaffold_11	53244407	53254814	MSTRG.1637.1	MPV17

scaffold_11	1587984	1602123	MSTRG.1227.1	MRPL35
scaffold_11	1594699	1596402	MSTRG.1227.3	MRPL35
scaffold_11	35592697	35665890	MSH2_g1397.t1	MSH2
scaffold_11	35341996	35345439	MSH6_g1395.t1	MSH6
scaffold_11	35341710	35362608	MSTRG.1489.1	MSH6
scaffold_11	39737711	39737914	MSTRG.1518.1	MTA3
scaffold_11	39759419	39892975	MSTRG.1522.2	MTA3
scaffold_11	39759447	39882942	MSTRG.1522.3	MTA3
scaffold_11	12458434	12468528	MTDC_g1237.t1	MTHFD2
scaffold_11	27883686	27902346	MSTRG.1433.4	MTERF1
scaffold_11	12445037	12468528	MSTRG.1305.1	MTHFD2
scaffold_11	12446847	12468528	MSTRG.1305.2	MTHFD2
scaffold_11	12455003	12496352	MSTRG.1305.5	MTHFD2
scaffold_11	12455005	12496352	MSTRG.1305.6	MTHFD2
scaffold_11	28870296	28890022	MSTRG.1453.1	MTIF2
scaffold_11	28870303	28887524	MSTRG.1453.2	MTIF2
scaffold_11	73165657	73171285	MTND_g1672.t1	MTND
scaffold_11	16191560	16216546	MSTRG.1351.1	MXD1
scaffold_11	62915669	62915964	MSTRG.1711.1	MYCN
scaffold_11	62916144	62919643	MYCN_g1611.t1	MYCN
scaffold_11	62916144	62919643	MYCN_g1611.t2	MYCN
scaffold_11	16008320	16022814	MYOF_g1285.t1	MYOF
scaffold_11	74545416	74600508	MYT1L_g1678.t1	MYT1L
scaffold_11	52959680	52989032	NADAP_g1504.t1	NADAP
scaffold_11	15201119	15210131	NAGK_g1270.t1	NAGK
scaffold_11	63245271	63582957	MSTRG.1714.1	NBAS
scaffold_11	63245271	63582957	NBAS_g1614.t1	NBAS
scaffold_11	55421339	55653338	MSTRG.1679.3	NCOA1
scaffold_11	55432024	55445402	MSTRG.1679.6	NCOA1
scaffold_11	55421218	55653338	MSTRG.1679.1	NCOA1
scaffold_11	55421339	55653338	MSTRG.1679.2	NCOA1
scaffold_11	44600891	44615688	NDUF7_g1462.t1	NDUF7
scaffold_11	16623885	16653601	MSTRG.1357.1	NFU1
scaffold_11	16623885	16649352	NFU1_g1293.t1	NFU1
scaffold_11	40338406	40348154	MSTRG.1524.1	NHS
scaffold_11	40338413	40348154	MSTRG.1524.3	NHS
scaffold_11	26406830	26514314	MSTRG.1424.3	NIPSNAP2
scaffold_11	11531237	11531629	NK1R_g1210.t1	TACR1
scaffold_11	48671484	48743868	NLRC4_g1479.t1	NLRC4
scaffold_11	67299530	67405087	MSTRG.1738.1	NOL10
scaffold_11	67299565	67405087	MSTRG.1738.2	NOL10
scaffold_11	67299572	67340043	MSTRG.1738.3	NOL10
scaffold_11	67299647	67340043	NOL10_g1633.t1	NOL10
scaffold_11	67371032	67403104	NOL10_g1634.t1	NOL10
scaffold_11	66144094	66144306	AL1A1_g1619.t1	AL1A1_g1619.t1

scaffold_11	62386538	62425410	BRD2_g1607.t1	BRD2_g1607.t1
scaffold_11	22985008	22985589	DUT_g1342.t1	DUT_g1342.t1
scaffold_11	50230227	50232916	FPG_g1490.t1	FPG_g1490.t1
scaffold_11	10371167	10372495	FV1_g1206.t1	FV1_g1206.t1
scaffold_11	22980911	22982080	FV1_g1341.t1	FV1_g1341.t1
scaffold_11	66827208	66827837	FV1_g1626.t1	FV1_g1626.t1
scaffold_11	187936	188168	MSTRG.1209.1	MSTRG.1209.1
scaffold_11	663622	663960	MSTRG.1213.1	MSTRG.1213.1
scaffold_11	462151	495234	MSTRG.1215.1	MSTRG.1215.1
scaffold_11	935956	936241	MSTRG.1219.1	MSTRG.1219.1
scaffold_11	1354367	1354594	MSTRG.1225.1	MSTRG.1225.1
scaffold_11	1606680	1651389	MSTRG.1229.1	MSTRG.1229.1
scaffold_11	1606755	1651389	MSTRG.1229.2	MSTRG.1229.2
scaffold_11	1606859	1651389	MSTRG.1229.3	MSTRG.1229.3
scaffold_11	1691947	1770306	MSTRG.1235.1	MSTRG.1235.1
scaffold_11	2797575	2797778	MSTRG.1251.1	MSTRG.1251.1
scaffold_11	6169375	6169591	MSTRG.1253.1	MSTRG.1253.1
scaffold_11	6648399	6648614	MSTRG.1256.1	MSTRG.1256.1
scaffold_11	6505375	6505732	MSTRG.1258.1	MSTRG.1258.1
scaffold_11	6628221	6628919	MSTRG.1259.1	MSTRG.1259.1
scaffold_11	6249164	6249382	MSTRG.1260.1	MSTRG.1260.1
scaffold_11	7796951	7797151	MSTRG.1261.1	MSTRG.1261.1
scaffold_11	9964174	9964382	MSTRG.1264.1	MSTRG.1264.1
scaffold_11	10133677	10133907	MSTRG.1265.1	MSTRG.1265.1
scaffold_11	7275734	7717623	MSTRG.1266.6	MSTRG.1266.6
scaffold_11	6957304	6989361	MSTRG.1267.1	MSTRG.1267.1
scaffold_11	7128270	7133279	MSTRG.1269.1	MSTRG.1269.1
scaffold_11	7177271	7236007	MSTRG.1270.1	MSTRG.1270.1
scaffold_11	10348726	10348991	MSTRG.1271.1	MSTRG.1271.1
scaffold_11	10344768	10347332	MSTRG.1272.1	MSTRG.1272.1
scaffold_11	10628447	10628802	MSTRG.1273.1	MSTRG.1273.1
scaffold_11	10352018	10367068	MSTRG.1274.1	MSTRG.1274.1
scaffold_11	10352018	10361121	MSTRG.1274.2	MSTRG.1274.2
scaffold_11	10352092	10373263	MSTRG.1274.3	MSTRG.1274.3
scaffold_11	10352092	10367068	MSTRG.1274.4	MSTRG.1274.4
scaffold_11	10352092	10359184	MSTRG.1274.5	MSTRG.1274.5
scaffold_11	10354093	10367068	MSTRG.1274.6	MSTRG.1274.6
scaffold_11	10367227	10373263	MSTRG.1274.7	MSTRG.1274.7
scaffold_11	11141906	11182282	MSTRG.1277.1	MSTRG.1277.1
scaffold_11	12205935	12206139	MSTRG.1287.1	MSTRG.1287.1
scaffold_11	12499660	12500744	MSTRG.1298.1	MSTRG.1298.1
scaffold_11	12445032	12445316	MSTRG.1304.1	MSTRG.1304.1
scaffold_11	12849442	12850130	MSTRG.1313.1	MSTRG.1313.1
scaffold_11	12871210	12871422	MSTRG.1315.1	MSTRG.1315.1
scaffold_11	12871943	12872251	MSTRG.1316.1	MSTRG.1316.1

scaffold_11	12873378	12873736	MSTRG.1317.1	MSTRG.1317.1
scaffold_11	12917666	12917889	MSTRG.1321.1	MSTRG.1321.1
scaffold_11	12887830	12889077	MSTRG.1322.1	MSTRG.1322.1
scaffold_11	13327200	13328147	MSTRG.1326.1	MSTRG.1326.1
scaffold_11	16008591	16022814	MSTRG.1344.2	MSTRG.1344.2
scaffold_11	16008615	16022814	MSTRG.1344.3	MSTRG.1344.3
scaffold_11	16060854	16085411	MSTRG.1348.1	MSTRG.1348.1
scaffold_11	16060858	16085411	MSTRG.1348.2	MSTRG.1348.2
scaffold_11	16064370	16070242	MSTRG.1348.3	MSTRG.1348.3
scaffold_11	16237821	16238034	MSTRG.1353.1	MSTRG.1353.1
scaffold_11	17765951	17785897	MSTRG.1367.1	MSTRG.1367.1
scaffold_11	20185409	20185637	MSTRG.1369.1	MSTRG.1369.1
scaffold_11	20366562	20368040	MSTRG.1376.1	MSTRG.1376.1
scaffold_11	20684379	20684627	MSTRG.1378.1	MSTRG.1378.1
scaffold_11	20772227	20840108	MSTRG.1381.4	MSTRG.1381.4
scaffold_11	20900685	20902409	MSTRG.1384.1	MSTRG.1384.1
scaffold_11	21272544	21382067	MSTRG.1386.4	MSTRG.1386.4
scaffold_11	22623572	22623781	MSTRG.1389.1	MSTRG.1389.1
scaffold_11	22661773	22661974	MSTRG.1393.1	MSTRG.1393.1
scaffold_11	22464205	22464410	MSTRG.1394.1	MSTRG.1394.1
scaffold_11	22579610	22613897	MSTRG.1397.1	MSTRG.1397.1
scaffold_11	22983613	22983829	MSTRG.1401.1	MSTRG.1401.1
scaffold_11	23096957	23101650	MSTRG.1404.1	MSTRG.1404.1
scaffold_11	23316945	23317162	MSTRG.1406.1	MSTRG.1406.1
scaffold_11	23202561	23202791	MSTRG.1407.1	MSTRG.1407.1
scaffold_11	23147238	23147610	MSTRG.1409.1	MSTRG.1409.1
scaffold_11	23449768	23452063	MSTRG.1411.1	MSTRG.1411.1
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scaffold_11	23945512	23945737	MSTRG.1416.1	MSTRG.1416.1
scaffold_11	24059174	24096368	MSTRG.1419.1	MSTRG.1419.1
scaffold_11	27226111	27226371	MSTRG.1420.1	MSTRG.1420.1
scaffold_11	26332362	26406468	MSTRG.1422.5	MSTRG.1422.5
scaffold_11	26333559	26399926	MSTRG.1422.6	MSTRG.1422.6
scaffold_11	26401158	26404370	MSTRG.1423.1	MSTRG.1423.1
scaffold_11	26483757	26514314	MSTRG.1424.4	MSTRG.1424.4
scaffold_11	27556895	27557098	MSTRG.1425.1	MSTRG.1425.1
scaffold_11	27764753	27764956	MSTRG.1426.1	MSTRG.1426.1
scaffold_11	27792758	27792963	MSTRG.1427.1	MSTRG.1427.1
scaffold_11	27756400	27756619	MSTRG.1429.1	MSTRG.1429.1
scaffold_11	27693071	27693277	MSTRG.1430.1	MSTRG.1430.1
scaffold_11	27824020	28043671	MSTRG.1433.1	MSTRG.1433.1
scaffold_11	28489255	28489470	MSTRG.1437.1	MSTRG.1437.1
scaffold_11	28498379	28517061	MSTRG.1438.1	MSTRG.1438.1
scaffold_11	28648779	28648999	MSTRG.1439.1	MSTRG.1439.1
scaffold_11	28740545	28843841	MSTRG.1444.3	MSTRG.1444.3

scaffold_11	29986226	29986452	MSTRG.1455.1	MSTRG.1455.1
scaffold_11	30008479	30008684	MSTRG.1458.1	MSTRG.1458.1
scaffold_11	30058643	30058844	MSTRG.1459.1	MSTRG.1459.1
scaffold_11	30322366	30322591	MSTRG.1461.1	MSTRG.1461.1
scaffold_11	32734557	32734777	MSTRG.1463.1	MSTRG.1463.1
scaffold_11	34684047	34684273	MSTRG.1469.1	MSTRG.1469.1
scaffold_11	34682966	34683288	MSTRG.1470.1	MSTRG.1470.1
scaffold_11	34684633	34684878	MSTRG.1472.1	MSTRG.1472.1
scaffold_11	34627439	34627640	MSTRG.1475.1	MSTRG.1475.1
scaffold_11	34650198	34650423	MSTRG.1476.1	MSTRG.1476.1
scaffold_11	34663116	34663469	MSTRG.1477.1	MSTRG.1477.1
scaffold_11	34663720	34664889	MSTRG.1478.1	MSTRG.1478.1
scaffold_11	34496835	34497064	MSTRG.1479.1	MSTRG.1479.1
scaffold_11	34530648	34530871	MSTRG.1480.1	MSTRG.1480.1
scaffold_11	34811811	34812020	MSTRG.1483.1	MSTRG.1483.1
scaffold_11	34920609	34920835	MSTRG.1486.1	MSTRG.1486.1
scaffold_11	35672602	35672811	MSTRG.1490.1	MSTRG.1490.1
scaffold_11	35866313	35880916	MSTRG.1493.2	MSTRG.1493.2
scaffold_11	36319607	36319917	MSTRG.1497.1	MSTRG.1497.1
scaffold_11	36320729	36321070	MSTRG.1499.1	MSTRG.1499.1
scaffold_11	36365240	36403855	MSTRG.1501.1	MSTRG.1501.1
scaffold_11	36558022	36558286	MSTRG.1504.1	MSTRG.1504.1
scaffold_11	37102679	37182130	MSTRG.1505.2	MSTRG.1505.2
scaffold_11	37125732	37125933	MSTRG.1507.1	MSTRG.1507.1
scaffold_11	38012740	38012970	MSTRG.1509.1	MSTRG.1509.1
scaffold_11	37217243	37430003	MSTRG.1510.2	MSTRG.1510.2
scaffold_11	37217257	37430003	MSTRG.1510.3	MSTRG.1510.3
scaffold_11	37217259	37340517	MSTRG.1510.4	MSTRG.1510.4
scaffold_11	38468324	38555140	MSTRG.1513.1	MSTRG.1513.1
scaffold_11	38977746	38999452	MSTRG.1516.4	MSTRG.1516.4
scaffold_11	39426731	39426951	MSTRG.1517.1	MSTRG.1517.1
scaffold_11	39357804	39358015	MSTRG.1519.1	MSTRG.1519.1
scaffold_11	39967366	39967627	MSTRG.1520.1	MSTRG.1520.1
scaffold_11	39970927	39971272	MSTRG.1521.1	MSTRG.1521.1
scaffold_11	39036581	39357406	MSTRG.1523.1	MSTRG.1523.1
scaffold_11	39063489	39068293	MSTRG.1523.4	MSTRG.1523.4
scaffold_11	39251150	39357406	MSTRG.1523.5	MSTRG.1523.5
scaffold_11	40375318	40375540	MSTRG.1525.1	MSTRG.1525.1
scaffold_11	40387701	40388036	MSTRG.1528.1	MSTRG.1528.1
scaffold_11	41916918	41917164	MSTRG.1530.1	MSTRG.1530.1
scaffold_11	41968966	41969171	MSTRG.1531.1	MSTRG.1531.1
scaffold_11	39974417	39975164	MSTRG.1536.1	MSTRG.1536.1
scaffold_11	42551601	42551896	MSTRG.1538.1	MSTRG.1538.1
scaffold_11	42594329	42594536	MSTRG.1539.1	MSTRG.1539.1
scaffold_11	44681913	44711993	MSTRG.1566.1	MSTRG.1566.1

scaffold_11	44715007	44715373	MSTRG.1568.1	MSTRG.1568.1
scaffold_11	47342966	47343194	MSTRG.1578.1	MSTRG.1578.1
scaffold_11	47563082	47642792	MSTRG.1582.1	MSTRG.1582.1
scaffold_11	48624999	48632343	MSTRG.1590.1	MSTRG.1590.1
scaffold_11	48876375	48888480	MSTRG.1597.1	MSTRG.1597.1
scaffold_11	51784528	51784814	MSTRG.1609.1	MSTRG.1609.1
scaffold_11	52922652	52922853	MSTRG.1619.1	MSTRG.1619.1
scaffold_11	52943726	52943943	MSTRG.1620.1	MSTRG.1620.1
scaffold_11	53013101	53019580	MSTRG.1625.2	MSTRG.1625.2
scaffold_11	54106100	54106332	MSTRG.1654.1	MSTRG.1654.1
scaffold_11	54180769	54186571	MSTRG.1657.2	MSTRG.1657.2
scaffold_11	54933841	54934049	MSTRG.1661.1	MSTRG.1661.1
scaffold_11	54425591	54425794	MSTRG.1665.1	MSTRG.1665.1
scaffold_11	56508285	56508509	MSTRG.1698.1	MSTRG.1698.1
scaffold_11	59163417	59163636	MSTRG.1699.1	MSTRG.1699.1
scaffold_11	61514915	61515122	MSTRG.1706.1	MSTRG.1706.1
scaffold_11	61716616	61716832	MSTRG.1707.1	MSTRG.1707.1
scaffold_11	61434682	61508971	MSTRG.1710.2	MSTRG.1710.2
scaffold_11	65521625	65539397	MSTRG.1715.2	MSTRG.1715.2
scaffold_11	66459793	66460313	MSTRG.1720.1	MSTRG.1720.1
scaffold_11	66010799	66011026	MSTRG.1722.1	MSTRG.1722.1
scaffold_11	66217694	66225048	MSTRG.1726.10	MSTRG.1726.10
scaffold_11	66212961	66231746	MSTRG.1726.8	MSTRG.1726.8
scaffold_11	66216451	66231746	MSTRG.1726.9	MSTRG.1726.9
scaffold_11	66140597	66171982	MSTRG.1729.1	MSTRG.1729.1
scaffold_11	67416693	67416894	MSTRG.1735.1	MSTRG.1735.1
scaffold_11	66638931	66640896	MSTRG.1737.1	MSTRG.1737.1
scaffold_11	67529491	67529707	MSTRG.1739.1	MSTRG.1739.1
scaffold_11	73088338	73088569	MSTRG.1763.1	MSTRG.1763.1
scaffold_11	70338001	70482464	MSTRG.1764.2	MSTRG.1764.2
scaffold_11	69090688	69090890	MSTRG.1768.1	MSTRG.1768.1
scaffold_11	73440382	73440583	MSTRG.1778.1	MSTRG.1778.1
scaffold_11	74880209	74880535	MSTRG.1779.1	MSTRG.1779.1
scaffold_11	75071269	75071489	MSTRG.1789.1	MSTRG.1789.1
scaffold_11	75184121	75184427	MSTRG.1798.1	MSTRG.1798.1
scaffold_11	75188128	75188423	MSTRG.1800.1	MSTRG.1800.1
scaffold_11	75189089	75189820	MSTRG.1801.1	MSTRG.1801.1
scaffold_11	75193081	75193380	MSTRG.1802.1	MSTRG.1802.1
scaffold_11	75203400	75203626	MSTRG.1803.1	MSTRG.1803.1
scaffold_11	75203981	75204234	MSTRG.1804.1	MSTRG.1804.1
scaffold_11	39739636	39882942	MTA3_g1430.t1	MTA3_g1430.t1
scaffold_11	2221375	2230956	RBSK_g1178.t1	RBSK_g1178.t1
scaffold_11	12363889	12454317	S4A5_g1236.t1	S4A5_g1236.t1
scaffold_11	39930327	39930551	MSTRG.1534.1	NOTHING
scaffold_11	42871154	42871365	MSTRG.1540.1	NOTHING

scaffold_11	42654369	42654571	MSTRG.1542.1	NOTHING
scaffold_11	43720663	43720876	MSTRG.1555.1	NOTHING
scaffold_11	44422014	44422229	MSTRG.1562.1	NOTHING
scaffold_11	45382609	45382821	MSTRG.1575.1	NOTHING
scaffold_11	44720353	44720610	MSTRG.1579.1	NOTHING
scaffold_11	47563436	47642792	MSTRG.1582.2	NOTHING
scaffold_11	48366722	48366950	MSTRG.1587.1	NOTHING
scaffold_11	48876375	48888480	MSTRG.1597.2	NOTHING
scaffold_11	49372395	49372598	MSTRG.1598.1	NOTHING
scaffold_11	49234083	49234653	MSTRG.1603.1	NOTHING
scaffold_11	51899573	51899802	MSTRG.1613.1	NOTHING
scaffold_11	52342323	52343017	MSTRG.1617.1	NOTHING
scaffold_11	53011336	53011657	MSTRG.1626.1	NOTHING
scaffold_11	54033244	54033463	MSTRG.1648.1	NOTHING
scaffold_11	54103526	54103743	MSTRG.1652.1	NOTHING
scaffold_11	54104781	54104985	MSTRG.1653.1	NOTHING
scaffold_11	54941495	54941705	MSTRG.1667.1	NOTHING
scaffold_11	56171780	56177513	MSTRG.1687.1	NOTHING
scaffold_11	58835874	58940985	MSTRG.1689.1	NOTHING
scaffold_11	59332993	59333217	MSTRG.1700.1	NOTHING
scaffold_11	61393340	61430323	MSTRG.1709.1	NOTHING
scaffold_11	65791767	65791973	MSTRG.1716.1	NOTHING
scaffold_11	64005194	64023014	MSTRG.1717.1	NOTHING
scaffold_11	65981354	65981586	MSTRG.1719.1	NOTHING
scaffold_11	66020002	66020313	MSTRG.1723.1	NOTHING
scaffold_11	66027000	66027478	MSTRG.1725.1	NOTHING
scaffold_11	66225049	66231746	MSTRG.1726.11	NOTHING
scaffold_11	66062913	66231746	MSTRG.1726.4	NOTHING
scaffold_11	66088347	66231746	MSTRG.1726.5	NOTHING
scaffold_11	66090689	66114647	MSTRG.1726.6	NOTHING
scaffold_11	66045600	66045804	MSTRG.1727.1	NOTHING
scaffold_11	66551397	66553865	MSTRG.1731.8	NOTHING
scaffold_11	67859235	67873566	MSTRG.1744.3	NOTHING
scaffold_11	67848993	67849205	MSTRG.1745.1	NOTHING
scaffold_11	68282820	68283089	MSTRG.1747.1	NOTHING
scaffold_11	68493588	68493790	MSTRG.1754.1	NOTHING
scaffold_11	70446164	70482464	MSTRG.1764.6	NOTHING
scaffold_11	73086661	73087006	MSTRG.1765.1	NOTHING
scaffold_11	73098435	73100785	MSTRG.1770.1	NOTHING
scaffold_11	73091500	73091718	MSTRG.1771.1	NOTHING
scaffold_11	73081900	73082111	MSTRG.1772.1	NOTHING
scaffold_11	74884223	74884444	MSTRG.1780.1	NOTHING
scaffold_11	74622640	74626428	MSTRG.1781.1	NOTHING
scaffold_11	74886234	74967454	MSTRG.1783.1	NOTHING
scaffold_11	74886306	74945899	MSTRG.1783.3	NOTHING

scaffold_11	74965712	75186361	MSTRG.1783.4	NOTHING
scaffold_11	74953057	74953261	MSTRG.1785.1	NOTHING
scaffold_11	74953967	74954212	MSTRG.1786.1	NOTHING
scaffold_11	74983392	74983612	MSTRG.1787.1	NOTHING
scaffold_11	75007872	75008086	MSTRG.1788.1	NOTHING
scaffold_11	75078869	75079097	MSTRG.1790.1	NOTHING
scaffold_11	75101207	75101427	MSTRG.1791.1	NOTHING
scaffold_11	75109042	75109244	MSTRG.1793.1	NOTHING
scaffold_11	75112548	75112898	MSTRG.1794.1	NOTHING
scaffold_11	75139724	75140358	MSTRG.1795.1	NOTHING
scaffold_11	75176826	75177054	MSTRG.1796.1	NOTHING
scaffold_11	75177919	75178132	MSTRG.1797.1	NOTHING
scaffold_11	75187636	75187875	MSTRG.1799.1	NOTHING
scaffold_11	53158283	53165788	NRBP_g1515.t1	NRBP1
scaffold_11	53157701	53168838	MSTRG.1633.1	NRBP1
scaffold_11	32491169	33574276	MSTRG.1462.1	NRXN1
scaffold_11	32491208	32493354	MSTRG.1462.2	NRXN1
scaffold_11	32921004	33043444	MSTRG.1462.4	NRXN1
scaffold_11	66446751	66453937	NTR2_g1622.t1	NTSR2
scaffold_11	66060094	66062891	MSTRG.1726.3	NUDT15
scaffold_11	67533938	67541731	MSTRG.1751.1	ODC1
scaffold_11	67534065	67541051	MSTRG.1751.2	ODC1
scaffold_11	12480627	12480931	MSTRG.1306.1	OR10G3
scaffold_11	53465215	53466482	MSTRG.1655.1	OST4
scaffold_11	22109893	22113184	OTX1_g1334.t1	OTX1
scaffold_11	39728030	39729172	OXER1_g1429.t1	OXER1
scaffold_11	33158710	33159225	MSTRG.1464.1	P2RY8
scaffold_11	13326443	13331026	PADC1_g1256.t1	PRADC1
scaffold_11	15194588	15200068	MSTRG.1335.1	PAIP2B
scaffold_11	67786765	67792364	PALB2_g1637.t1	PALB2
scaffold_11	24067839	24096368	PAPOG_g1354.t1	PAPOG
scaffold_11	24064631	24096368	MSTRG.1419.2	PAPOLG
scaffold_11	51697377	51705269	PCARE_g1495.t1	PCARE
scaffold_11	16058876	16059946	PCBP1_g1286.t1	PCBP1
scaffold_11	12206410	12208571	PCGF1_g1224.t1	PCGF1
scaffold_11	15902607	15922082	PCYOX_g1282.t1	PCYOX1
scaffold_11	74952236	74952670	MSTRG.1784.1	PCYT1B
scaffold_11	67193845	67216900	PDIA6_g1631.t1	PDIA6
scaffold_11	21164380	21225888	MSTRG.1385.1	PELI1
scaffold_11	21164380	21223392	MSTRG.1385.2	PELI1
scaffold_11	21206001	21216592	MSTRG.1385.3	PELI1
scaffold_11	21208690	21219862	MYO7A_g1329.t1	PELI1
scaffold_11	12839469	12847374	MSTRG.1312.1	PELI3
scaffold_11	74790098	74842609	PERT_g1681.t1	PERT
scaffold_11	23864934	23889977	PEX13_g1351.t1	PEX13

scaffold_11	23472067	23477195	MSTRG.1413.1	PGBP
scaffold_11	36331577	36365171	MSTRG.1500.1	PIGF
scaffold_11	36333627	36365171	PIGF_g1405.t1	PIGF
scaffold_11	62919694	62921114	PKD2_g1612.t1	PKD2
scaffold_11	40327729	40337669	MSTRG.1532.1	PKDCC
scaffold_11	40327742	40337669	MSTRG.1532.2	PKDCC
scaffold_11	38896456	38999452	PKHH2_g1425.t1	PLEKHH2
scaffold_11	34071253	34072080	PLA1A_g1387.t1	PLA1A
scaffold_11	69634201	69634494	PLCB3_g1654.t1	PLCB3
scaffold_11	17499437	17522913	PLEK_g1307.t1	PLEK
scaffold_11	38894279	38999452	MSTRG.1516.1	PLEKHH2
scaffold_11	38894279	38976867	MSTRG.1516.2	PLEKHH2
scaffold_11	28462396	28475629	MSTRG.1436.2	PNPT1
scaffold_11	28455207	28498309	PNPT1_g1363.t1	PNPT1
scaffold_11	34618758	34619803	MSTRG.1465.1	POFUT1
scaffold_11	1692303	1770306	MSTRG.1235.3	POLR1A
scaffold_11	38357776	38397776	PPCEL_g1418.t1	PPCEL
scaffold_11	38468324	38555140	MSTRG.1513.2	PPM1B
scaffold_11	38481104	38509421	PPM1B_g1420.t1	PPM1B
scaffold_11	51916678	51956830	MSTRG.1614.1	PPP1CB
scaffold_11	51916678	51956830	MSTRG.1614.2	PPP1CB
scaffold_11	28517358	28592199	MSTRG.1441.1	PPP4R3B
scaffold_11	28517360	28591807	MSTRG.1441.2	PPP4R3B
scaffold_11	34745285	34811441	PPR21_g1391.t1	PPP1R21
scaffold_11	13326399	13331026	MSTRG.1325.1	PRADC1
scaffold_11	13328271	13331026	MSTRG.1325.4	PRADC1
scaffold_11	13328271	13331700	MSTRG.1325.5	PRADC1
scaffold_11	53413920	53417496	MSTRG.1640.1	PREB
scaffold_11	53413920	53417496	MSTRG.1640.2	PREB
scaffold_11	53414113	53417496	PREB_g1531.t1	PREB
scaffold_11	53414113	53417496	PREB_g1531.t2	PREB
scaffold_11	38355850	38397776	MSTRG.1511.1	PREPL
scaffold_11	38356005	38397776	MSTRG.1511.2	PREPL
scaffold_11	38356038	38374439	MSTRG.1511.3	PREPL
scaffold_11	36697371	36697586	MSTRG.1502.1	PRKCE
scaffold_11	44509026	44598227	MSTRG.1570.1	PRKD3
scaffold_11	44509026	44599290	MSTRG.1570.2	PRKD3
scaffold_11	44509033	44599290	MSTRG.1570.3	PRKD3
scaffold_11	44596415	44615688	MSTRG.1571.1	PRKD3
scaffold_11	28851734	28851937	MSTRG.1443.1	PRORSD1P
scaffold_11	12891019	12891639	NAT8B_g1246.t1	PRR13
scaffold_11	28824701	28826577	PRXD1_g1367.t1	PRORSD1
scaffold_11	28853219	28854876	PRXD1_g1369.t1	PRORSD1
scaffold_11	30059243	30149711	MSTRG.1460.1	PSME4
scaffold_11	30059243	30149711	MSTRG.1460.2	PSME4

scaffold_11	30059257	30144265	PSME4_g1381.t1	PSME4
scaffold_11	2104955	2112272	PSPB_g1170.t2	SFTPB
scaffold_11	1655646	1691821	MSTRG.1234.1	PTCD3
scaffold_11	1655678	1691821	MSTRG.1234.2	PTCD3
scaffold_11	1656560	1691821	PTCD3_g1164.t1	PTCD3
scaffold_11	55405314	55408161	PTRD1_g1563.t1	PTRD1
scaffold_11	59232250	59327092	MSTRG.1702.1	PUM2
scaffold_11	59232250	59326762	MSTRG.1702.2	PUM2
scaffold_11	59232257	59326762	MSTRG.1702.3	PUM2
scaffold_11	23893929	23955492	PUS10_g1352.t1	PUS10
scaffold_11	74626452	74716972	MSTRG.1782.1	PXDN
scaffold_11	74626526	74716972	MSTRG.1782.2	PXDN
scaffold_11	53306731	53330979	PYR1_g1525.t1	PYR1
scaffold_11	55972991	55975570	QORX_g1567.t1	QORX
scaffold_11	55988716	55994626	QORX_g1568.t1	QORX
scaffold_11	44461122	44489066	QPCT_g1459.t1	QPCT
scaffold_11	54283065	54361905	RAB10_g1552.t1	RAB10
scaffold_11	13423459	13461856	MSTRG.1327.1	RAB11FIP5
scaffold_11	20326017	20353639	RAB1A_g1323.t1	RAB1A
scaffold_11	52880434	52889450	MSTRG.1618.1	RBKS
scaffold_11	52880582	52882591	MSTRG.1618.2	RBKS
scaffold_11	68681998	68682312	RBX1_g1650.t1	RBX1
scaffold_11	68681986	68682312	RBX1_g1650.t2	RBX1
scaffold_11	12279734	12284159	RDH11_g1235.t1	RDH11
scaffold_11	60765821	60770272	RDH14_g1596.t1	RDH14
scaffold_11	1483298	1584288	REEP1_g1161.t1	REEP1
scaffold_11	2379029	2383368	MSTRG.1248.2	RETSAT
scaffold_11	13423630	13446071	RFIP5_g1259.t1	RAB11FIP5
scaffold_11	13446072	13460977	RFIP5_g1260.t1	RAB11FIP5
scaffold_11	59147537	59148127	RHOB_g1584.t1	RHOB
scaffold_11	36365324	36403855	RHOQ_g1406.t1	RHOQ
scaffold_11	67801330	67806899	RIR2_g1638.t1	RRM2
scaffold_11	61850641	61851037	RL10_g1605.t1	RPL10
scaffold_11	7073835	7104049	RL21_g1199.t1	RPL21
scaffold_11	48048493	48048762	RL36_g1475.t1	RPL36
scaffold_11	11148593	11155816	RM19_g1208.t1	MRPL19
scaffold_11	43525680	43526183	RM32_g1452.t1	MRPL32
scaffold_11	52880729	52889450	RM33_g1503.t1	RM33
scaffold_11	12234709	12235251	RM53_g1228.t1	MRPL53
scaffold_11	43954999	44013136	RMD2_g1457.t1	RMDN2
scaffold_11	1055557	1112860	RMD5A_g1157.t1	RMND5A
scaffold_11	43943959	44028752	MSTRG.1560.1	RMDN2
scaffold_11	2172137	2173879	RN181_g1173.t1	RNF181
scaffold_11	73117332	73154130	MSTRG.1773.1	RNASEH1
scaffold_11	73117391	73130034	MSTRG.1773.2	RNASEH1

scaffold_11	1187718	1207834	MSTRG.1222.2	RNF103
scaffold_11	1212215	1214221	MSTRG.1223.1	RNF103
scaffold_11	2171664	2173879	MSTRG.1239.1	RNF181
scaffold_11	2172032	2173879	MSTRG.1239.2	RNF181
scaffold_11	73117495	73130034	RNH1_g1671.t1	RNH1
scaffold_11	66725042	66885542	MSTRG.1733.1	ROCK2
scaffold_11	66725042	66882680	ROCK2_g1625.t1	ROCK2
scaffold_11	371351	392732	RPIA_g1147.t1	RPIA
scaffold_11	43272728	43273131	MSTRG.1549.1	RPL32
scaffold_11	28891209	28893731	MSTRG.1451.1	RPS27A
scaffold_11	67805699	67806899	MSTRG.1743.2	RRM2
scaffold_11	58845328	58940985	MSTRG.1689.2	RRP1
scaffold_11	28891250	28894728	RS27A_g1371.t1	RPS27A
scaffold_11	73092149	73097949	RS7_g1670.t1	RPS7
scaffold_11	70364903	70406658	RSAD2_g1655.t1	RSAD2
scaffold_11	29058326	29132501	MSTRG.1447.1	RTN4
scaffold_11	29097244	29135810	MSTRG.1448.1	RTN4
scaffold_11	29058947	29132501	RTN4_g1373.t1	RTN4
scaffold_11	15890302	15898978	RUXG_g1281.t1	SNRPG
scaffold_11	53717949	53731378	S35F6_g1539.t1	SLC35F6
scaffold_11	66887729	66903158	S66A3_g1627.t1	S66A3
scaffold_11	20414489	20438429	SATT_g1325.t1	SLC1A4
scaffold_11	13749481	13750230	SBSPO_g1264.t1	SBSPON
scaffold_11	13747876	13749267	MSTRG.1333.1	SBSPON
scaffold_11	53339376	53346874	SC5A6_g1527.t1	SLC5A6
scaffold_11	53383304	53383963	SC5A6_g1528.t1	SLC5A6
scaffold_11	40338406	40348154	MSTRG.1524.2	SCN8A
scaffold_11	59343421	59365363	SDC1_g1588.t1	SDC1
scaffold_11	54063658	54073092	MSTRG.1649.1	SELENOI
scaffold_11	12041504	12065838	SEM4F_g1215.t1	SEMA4F
scaffold_11	12040033	12065838	MSTRG.1281.1	SEMA4F
scaffold_11	12045246	12065838	MSTRG.1281.3	SEMA4F
scaffold_11	20732022	20735682	MSTRG.1380.1	SERTAD2
scaffold_11	55987034	56003725	MSTRG.1696.1	SF3B6
scaffold_11	55994627	56003725	SF3B6_g1569.t1	SF3B6
scaffold_11	13463563	13575441	MSTRG.1328.1	SFXN5
scaffold_11	13575530	13576159	MSTRG.1329.1	SFXN5
scaffold_11	13463564	13573128	SFXN5_g1261.t1	SFXN5
scaffold_11	2299735	2303673	MSTRG.1244.1	SH2D6
scaffold_11	2300182	2307215	SH2D6_g1179.t1	SH2D6
scaffold_11	75956700	76004305	SH3Y1_g1690.t1	SH3Y1
scaffold_11	3520423	3521478	SIA7B_g1192.t1	ST6GALNAC2
scaffold_11	1878181	1934308	SIAT9_g1166.t1	SIAT9
scaffold_11	48745451	48745714	MSTRG.1592.1	SLC30A6
scaffold_11	38397833	38432658	SLC31_g1419.t1	SLC31

scaffold_11	53715603	53721393	MSTRG.1650.1	SLC35F6
scaffold_11	12440318	12447460	MSTRG.1303.2	SLC4A5
scaffold_11	12446847	12468528	MSTRG.1305.3	SLC4A5
scaffold_11	12449403	12496352	MSTRG.1305.4	SLC4A5
scaffold_11	53334764	53346874	MSTRG.1643.1	SLC5A6
scaffold_11	53335483	53346874	MSTRG.1643.2	SLC5A6
scaffold_11	66886297	66902002	MSTRG.1732.1	SLC66A3
scaffold_11	66892283	66903158	MSTRG.1732.3	SLC66A3
scaffold_11	41794025	42089772	NAC1_g1438.t1	SLC8A1
scaffold_11	56106926	56113930	MSTRG.1684.1	SMARCC2
scaffold_11	61426241	61510458	MSTRG.1710.1	SMC6
scaffold_11	61434682	61508971	SMC6_g1601.t1	SMC6
scaffold_11	888401	888626	MSTRG.1217.1	SMYD1
scaffold_11	891837	931278	SMYD1_g1152.t1	SMYD1
scaffold_11	13332446	13343623	SMYD5_g1257.t1	SMYD5
scaffold_11	16228101	16234781	SNR27_g1289.t1	SNR27
scaffold_11	16224773	16234781	MSTRG.1352.1	SNRNP27
scaffold_11	75040839	75050718	MSTRG.1783.5	SNTG2
scaffold_11	74886238	75211393	SNTG2_g1683.t1	SNTG2
scaffold_11	53206704	53212967	MSTRG.1634.1	SNX17
scaffold_11	53206938	53212809	SNX17_g1518.t1	SNX17
scaffold_11	36199915	36262166	MSTRG.1496.1	SOCS5
scaffold_11	36202876	36204498	SOCS5_g1403.t1	SOCS5
scaffold_11	42969391	43139907	MSTRG.1544.1	SOS1
scaffold_11	42969395	43139907	MSTRG.1544.2	SOS1
scaffold_11	42969538	43136844	MSTRG.1544.3	SOS1
scaffold_11	42969649	43136844	SOS1_g1444.t1	SOS1
scaffold_11	71462503	71463849	SOX11_g1664.t1	SOX11
scaffold_11	71414684	71420297	SPART_g1662.t1	SPART
scaffold_11	48804150	48861523	MSTRG.1595.1	SPAST
scaffold_11	48805252	48861523	SPAST_g1481.t1	SPAST
scaffold_11	51876621	51904066	SPDYA_g1498.t1	SPDYA
scaffold_11	20039144	20151692	SPRE2_g1320.t1	SPRED2
scaffold_11	20038509	20153850	MSTRG.1371.1	SPRED2
scaffold_11	29444342	29548974	SPTB2_g1375.t1	SPTBN1
scaffold_11	29442199	29634955	MSTRG.1454.1	SPTBN1
scaffold_11	37217241	37430003	SRBD1_g1412.t1	SRBD1
scaffold_11	43328975	43335416	SRSF7_g1449.t1	SRSF7
scaffold_11	20730654	20731598	SRTD2_g1326.t1	SRTD2
scaffold_11	52991325	52999669	ST65G_g1505.t1	SUPT7L
scaffold_11	12804171	12824981	STABP_g1244.t1	STAMBP
scaffold_11	12802045	12826881	MSTRG.1314.1	STAMBP
scaffold_11	12802050	12826881	MSTRG.1314.2	STAMBP
scaffold_11	34685694	34735484	MSTRG.1482.1	STON1
scaffold_11	34688668	34700392	STON1_g1390.t2	STON1

scaffold_11	35885039	35925146	STPG4_g1400.t1	STPG4
scaffold_11	44843743	44942388	MSTRG.1576.1	STRN
scaffold_11	44843984	44913996	STRN_g1468.t1	STRN
scaffold_11	3168311	3207962	SUCA_g1191.t1	SUCLG1
scaffold_11	52989339	52999669	MSTRG.1624.1	SUPT7L
scaffold_11	52989339	52999669	MSTRG.1624.2	SUPT7L
scaffold_11	2167819	2170833	T150A_g1172.t2	TMEM150A
scaffold_11	42437548	42487699	T178A_g1440.t1	TMEM178A
scaffold_11	67997228	68067400	MSTRG.1750.1	TAF1B
scaffold_11	67997932	68067400	TAF1B_g1642.t1	TAF1B
scaffold_11	75105051	75105268	MSTRG.1792.1	TAX1BP1
scaffold_11	53387858	53391097	TCF23_g1529.t1	TCF23
scaffold_11	23104069	23116963	TCPD_g1344.t1	CCT4
scaffold_11	13308255	13325172	TCPH_g1255.t1	TCPH
scaffold_11	12592476	12677789	MSTRG.1310.1	TET3
scaffold_11	12598429	12692150	TET3_g1241.t1	TET3
scaffold_11	15237943	15239711	MSTRG.1337.2	TEX261
scaffold_11	53228759	53241444	TF3C2_g1520.t1	GTF3C2
scaffold_11	53244944	53254814	TF3C2_g1520.t2	GTF3C2
scaffold_11	2399106	2487843	TF7L1_g1184.t1	TF7L1
scaffold_11	2399106	2487843	TF7L1_g1184.t2	TF7L1
scaffold_11	2537339	2593184	TF7L1_g1185.t1	TF7L1
scaffold_11	15637862	15737652	TGFA_g1279.t1	TGFA_g1279.t1
scaffold_11	2386642	2390586	TGON2_g1183.t1	TGON2
scaffold_11	51717346	51756015	TGRM2_g1496.t1	TGRM2
scaffold_11	39041380	39349331	THADA_g1426.t1	THADA
scaffold_11	39041356	39349331	THADA_g1426.t2	THADA
scaffold_11	821900	833771	THNS2_g1150.t1	THNSL2
scaffold_11	819768	833959	MSTRG.1218.1	THNSL2
scaffold_11	819850	837103	MSTRG.1218.2	THNSL2
scaffold_11	16151238	16157203	MSTRG.1350.1	THOC2
scaffold_11	42371711	42420545	THUM2_g1439.t1	THUM2
scaffold_11	15930972	15960501	MSTRG.1343.1	TIA1
scaffold_11	15930998	15960501	MSTRG.1343.2	TIA1
scaffold_11	15950847	15960501	MSTRG.1343.4	TIA1
scaffold_11	15937884	15960501	TIA1_g1283.t1	TIA1
scaffold_11	2804390	2860736	TIKI1_g1189.t1	TRABD2A
scaffold_11	39353671	39357406	TISD_g1427.t1	ZFP36L2
scaffold_11	16076895	16077115	MSTRG.1349.1	TLR10
scaffold_11	12198909	12200311	TLX2_g1222.t1	TLX2
scaffold_11	22614084	22619080	MSTRG.1398.2	TMEM17
scaffold_11	75602607	75607504	MSTRG.1806.2	TMEM18
scaffold_11	75607770	75611167	MSTRG.1806.3	TMEM18
scaffold_11	22613995	22619080	TMM17_g1336.t1	TMM17
scaffold_11	75602298	75613358	TMM18_g1686.t1	TMEM18

scaffold_11	2776800	2777787	MSTRG.1249.1	TMSB10
scaffold_11	12878576	12885770	MSTRG.1320.1	TPRKB
scaffold_11	12878662	12885770	MSTRG.1320.2	TPRKB
scaffold_11	51856858	51876367	TR61B_g1497.t1	TRMT61B
scaffold_11	51856210	51876367	TR61B_g1497.t2	TRMT61B
scaffold_11	73186548	73285010	MSTRG.1776.1	TRAPPC12
scaffold_11	53257069	53276312	TRI54_g1522.t1	TRI54
scaffold_11	65516714	65539397	TRIB2_g1616.t1	TRIB2
scaffold_11	73287776	73435194	MSTRG.1777.1	TSSC1
scaffold_11	29836330	29837166	TSYL6_g1379.t1	TSYL6
scaffold_11	43309566	43311335	TT39B_g1448.t1	TTC39B
scaffold_11	48181659	48353894	TTC27_g1476.t1	TTC27
scaffold_11	12219238	12227312	MSTRG.1290.1	TTC31
scaffold_11	12220564	12227312	TTC31_g1226.t1	TTC31
scaffold_11	43328475	43341314	MSTRG.1547.1	TTC39B
scaffold_11	35934405	36052923	MSTRG.1495.2	TTC7A
scaffold_11	35953601	35958776	MSTRG.1495.3	TTC7A
scaffold_11	35973449	36052923	MSTRG.1495.4	TTC7A
scaffold_11	35993922	36052923	MSTRG.1495.5	TTC7A
scaffold_11	36037347	36052923	MSTRG.1495.6	TTC7A
scaffold_11	35934405	36052923	TTC7A_g1401.t1	TTC7A
scaffold_11	15233762	15239711	TX261_g1271.t1	TEX261
scaffold_11	56070198	56124481	UBX2A_g1573.t1	UBX2A
scaffold_11	56064530	56114576	MSTRG.1682.1	UBXN2A
scaffold_11	21383236	21438838	MSTRG.1395.1	UGP2
scaffold_11	21383848	21452953	UGPA_g1331.t1	UGPA
scaffold_11	23452619	23694376	UBP34_g1347.t1	USP34
scaffold_11	23452522	23694376	MSTRG.1412.1	USP39
scaffold_11	2122990	2157355	MSTRG.1232.1	USP39
scaffold_11	36404344	36405043	UTP20_g1407.t1	UTP20
scaffold_11	2176140	2183327	VAMP5_g1174.t1	VAMP5
scaffold_11	2185675	2189203	VAMP8_g1175.t1	VAMP8
scaffold_11	67217043	67269278	VATC2_g1632.t1	ATP6V1C2
scaffold_11	2201146	2210619	VKGC_g1176.t1	GGCX
scaffold_11	21272024	21382067	MSTRG.1386.1	VPS54
scaffold_11	21272492	21382067	MSTRG.1386.2	VPS54
scaffold_11	21301190	21382067	VPS54_g1330.t1	VPS54
scaffold_11	26406266	26514314	MSTRG.1424.1	VRK2
scaffold_11	12242807	12244925	WBP1_g1230.t1	WBP1
scaffold_11	56030126	56041711	WDCP_g1571.t1	WDCP
scaffold_11	59556076	59611382	WDR35_g1591.t1	WDR35
scaffold_11	51788958	51841533	MSTRG.1611.1	WDR43
scaffold_11	12270143	12274368	MSTRG.1294.1	WDR54
scaffold_11	12272876	12274324	MSTRG.1294.3	WDR54
scaffold_11	12270197	12274368	WDR54_g1233.t1	WDR54

scaffold_11	17687329	17710378	MSTRG.1366.1	DNAAF10
scaffold_11	17687693	17701020	MSTRG.1366.4	DNAAF10
scaffold_11	49378372	49400809	MSTRG.1604.1	XDH
scaffold_11	49423844	49441910	MSTRG.1604.3	XDH
scaffold_11	49379269	49446980	XDH_g1485.t1	XDH
scaffold_11	49592479	49661452	XDH_g1486.t1	XDH
scaffold_11	23375844	23418226	MSTRG.1410.1	XPO1
scaffold_11	23380056	23418226	XPO1_g1346.t1	XPO1
scaffold_11	48641807	48668071	MSTRG.1591.1	YIPF4
scaffold_11	48654393	48668071	YIPF4_g1478.t1	YIPF4
scaffold_11	50717119	50732518	MSTRG.1606.1	YPEL5
scaffold_11	68230510	68268635	MSTRG.1746.1	YWHAQ
scaffold_11	39348110	39357406	MSTRG.1523.6	ZFP36L2
scaffold_11	53027668	53059802	ZN512_g1509.t1	ZNF512
scaffold_11	53203120	53206234	ZN513_g1517.t1	ZNF513
scaffold_11	14979421	15045989	ZN638_g1269.t1	ZNF638
scaffold_11	27439292	27439517	MSTRG.1421.1	ZNF157
scaffold_11	12874136	12874507	MSTRG.1318.1	ZNF621
scaffold_11	14978148	15064665	MSTRG.1336.1	ZNF638
scaffold_11	14978148	15064665	MSTRG.1336.2	ZNF638
scaffold_11	14978792	15064665	MSTRG.1336.3	ZNF638
scaffold_11	53290520	53298667	ZNT3_g1524.t1	SLC30A3
scaffold_11	48747732	48792389	ZNT6_g1480.t1	SLC30A6
scaffold_12	67575993	67664666	2ABA_g2010.t1	PPP2R2A
scaffold_12	34244658	34267524	ABCE1_g1839.t1	ABCE1
scaffold_12	20354370	20398073	ABD18_g1793.t1	ABHD18
scaffold_12	67058002	67162433	ADA1A_g2005.t1	ADRA1A
scaffold_12	61713888	61716095	ADA20_g1959.t1	ADAM20
scaffold_12	61508771	61511158	ADA29_g1958.t1	ADAM29
scaffold_12	59797499	59797716	MSTRG.2142.1	ADGRE1
scaffold_12	10214346	10214557	MSTRG.1882.1	AGBL2
scaffold_12	47685634	47685849	MSTRG.2088.1	AK8
scaffold_12	7321617	7380657	ALPK1_g1739.t1	ALPK1
scaffold_12	65117860	65118082	MSTRG.2167.1	ALPK2
scaffold_12	5739123	5817488	AMPE_g1732.t1	ENPEP
scaffold_12	34164882	34241034	MSTRG.2007.1	ANAPC10
scaffold_12	7882017	8203417	ANK2_g1743.t1	ANK2
scaffold_12	7880924	8203417	MSTRG.1875.1	ANK2
scaffold_12	7881012	8203417	MSTRG.1875.2	ANK2
scaffold_12	7881952	8203417	MSTRG.1875.3	ANK2
scaffold_12	2315644	2368253	MSTRG.1825.5	ANKAR
scaffold_12	17548455	17554597	MSTRG.1923.3	ANKRD50
scaffold_12	36424510	36461112	ANM9_g1851.t1	PRMT9
scaffold_12	52220882	52221100	MSTRG.2115.1	ANO5
scaffold_12	17503971	17552792	ANR50_g1785.t1	ANKRD50

scaffold_12	14929861	14972003	ANXA5_g1769.t1	ANXA5
scaffold_12	7214024	7244715	AP1AR_g1737.t1	AP1AR
scaffold_12	34241179	34268483	MSTRG.2008.1	ANAPC10
scaffold_12	51878150	51895499	MSTRG.2110.1	APELA
scaffold_12	51895573	51911059	MSTRG.2112.1	APELA
scaffold_12	40942250	41069061	MSTRG.2049.2	ARFIP1
scaffold_12	40942250	41069061	MSTRG.2049.3	ARFIP1
scaffold_12	40942270	41069061	MSTRG.2049.4	ARFIP1
scaffold_12	40942281	41069061	MSTRG.2049.5	ARFIP1
scaffold_12	40939476	41067734	ARFP1_g1869.t1	ARFIP1
scaffold_12	36496955	36788096	MSTRG.2032.2	ARHGAP10
scaffold_12	73823892	73838316	ARHGB_g2059.t1	ARHGEF11
scaffold_12	13211975	13212191	MSTRG.1902.1	ARSJ
scaffold_12	15962857	15978842	MSTRG.1924.5	ASPH
scaffold_12	4311510	4329947	AT2L1_g1721.t1	ETNPPL
scaffold_12	43226904	43227169	MSTRG.2057.1	ATR
scaffold_12	15065433	15099888	BBS7_g1773.t1	BBS7
scaffold_12	15064062	15099888	MSTRG.1915.3	BBS7
scaffold_12	71213674	71270785	MSTRG.2232.1	BIN3
scaffold_12	71213695	71259914	MSTRG.2232.2	BIN3
scaffold_12	71642172	71683498	MSTRG.2246.1	BMP1
scaffold_12	71643054	71683498	MSTRG.2246.2	BMP1
scaffold_12	71643054	71683498	MSTRG.2246.3	BMP1
scaffold_12	67503909	67521633	BNI3L_g2009.t1	BNIP3L
scaffold_12	12862013	12862231	MSTRG.1894.1	BTN3A3
scaffold_12	42595276	42633912	C1RL_g1884.t1	C1RL
scaffold_12	73651673	73651889	MSTRG.2258.1	ARMH2
scaffold_12	56517655	56541774	MSTRG.2135.1	HPF1
scaffold_12	56517655	56541774	MSTRG.2135.2	HPF1
scaffold_12	13023658	13028668	MSTRG.1898.1	C4ORF3
scaffold_12	46264066	46264604	MSTRG.2073.1	C4ORF46
scaffold_12	8268491	8268693	MSTRG.1874.1	CAMK2D
scaffold_12	5099069	5129514	MSTRG.1853.1	CASP6
scaffold_12	5099069	5112428	MSTRG.1853.2	CASP6
scaffold_12	5101462	5112061	MSTRG.1853.4	CASP6
scaffold_12	5101462	5112061	MSTRG.1853.5	CASP6
scaffold_12	62394904	62402916	CATB_g1962.t1	TYRP1
scaffold_12	43734203	43757316	CATO_g1893.t1	CATO
scaffold_12	55862982	55882436	CBR4_g1938.t1	CBR4
scaffold_12	71259969	71275276	MSTRG.2233.1	CCAR2
scaffold_12	66133046	66184966	CCD25_g1996.t1	CCDC25
scaffold_12	15057747	15064061	CCNA2_g1772.t1	CCNA2
scaffold_12	15057659	15099888	MSTRG.1915.1	CCNA2
scaffold_12	21234137	21244704	CD033_g1801.t1	C4ORF33
scaffold_12	46264745	46266870	CD046_g1904.t1	C4ORF46

scaffold_12	68336391	68385951	CDCA2_g2013.t1	CDCA2
scaffold_12	68334002	68386128	MSTRG.2201.1	CDCA2
scaffold_12	68335782	68386128	MSTRG.2201.2	CDCA2
scaffold_12	68336391	68386128	MSTRG.2201.3	CDCA2
scaffold_12	20617141	20617880	CE295_g1797.t1	CEP295
scaffold_12	60837339	60853957	CEP44_g1955.t1	CEP44
scaffold_12	60829474	60854310	MSTRG.2152.1	CEP44
scaffold_12	5138470	5184815	CFAI_g1726.t1	CFI
scaffold_12	70657834	70668618	CHMP7_g2030.t1	CHMP7
scaffold_12	56435494	56510633	CLCN3_g1941.t1	CLCN3
scaffold_12	56424532	56512103	MSTRG.2136.1	CLCN3
scaffold_12	56463168	56512103	MSTRG.2136.3	CLCN3
scaffold_12	56463197	56512103	MSTRG.2136.4	CLCN3
scaffold_12	36319953	36325485	MSTRG.2026.2	CLEC7A
scaffold_12	30647152	30697943	CLGN_g1823.t1	CLGN
scaffold_12	66304495	66319471	MSTRG.2187.1	CLU
scaffold_12	66304506	66319471	MSTRG.2187.2	CLU
scaffold_12	66307177	66319471	CLUS_g1998.t1	CLU
scaffold_12	4803596	4805061	COPA1_g1722.t1	COL25A1
scaffold_12	3665822	3691837	CP2U1_g1714.t1	CYP2U1
scaffold_12	62382745	62402916	MSTRG.2156.1	CTSB
scaffold_12	43732489	43732831	MSTRG.2067.1	CTSO
scaffold_12	872954	891817	CXXC4_g1695.t1	CXXC4
scaffold_12	869058	894252	MSTRG.1812.1	CXXC4
scaffold_12	871234	894616	MSTRG.1812.2	CXXC4
scaffold_12	876080	891817	MSTRG.1812.4	CXXC4
scaffold_12	3665984	3691837	MSTRG.1835.2	CYP2U1
scaffold_12	28733164	28780971	MSTRG.1964.5	DCAF16
scaffold_12	38517242	38559021	DCLK2_g1856.t1	DCLK2
scaffold_12	38640117	38640564	MSTRG.2036.1	DCLK2
scaffold_12	55176025	55280251	DDX60_g1935.t1	DDX60
scaffold_12	55357799	55361985	MSTRG.2123.2	DDX60
scaffold_12	55314402	55400166	DDX6L_g1936.t1	DDX60L
scaffold_12	71758449	71767963	DEMA_g2049.t1	DMTN
scaffold_12	52103755	52103964	MSTRG.2114.1	DGKQ
scaffold_12	2867400	2968108	DKK2_g1710.t1	DKK2
scaffold_12	68435598	68650834	MSTRG.2211.1	DOCK5
scaffold_12	71923673	71927664	DOK2_g2052.t2	DOK2
scaffold_12	67274043	67357144	DPYL2_g2006.t1	DPYSL2
scaffold_12	36263197	36314228	EDNRA_g1849.t1	EDNRA
scaffold_12	36258682	36314228	MSTRG.2027.1	EDNRA
scaffold_12	36258747	36314228	MSTRG.2027.2	EDNRA
scaffold_12	5275459	5354050	EGF_g1730.t1	EGF
scaffold_12	71189257	71191733	EGR3_g2034.t1	EGR3
scaffold_12	71192229	71194353	MSTRG.2230.1	EGR3

scaffold_12	54437527	54438054	MSTRG.2121.1	EIF5
scaffold_12	29490759	29557057	ELF2_g1813.t1	ELF2
scaffold_12	29486036	29584450	MSTRG.1966.4	ELF2
scaffold_12	29486036	29563152	MSTRG.1966.5	ELF2
scaffold_12	29489434	29584450	MSTRG.1966.6	ELF2
scaffold_12	30765953	30799231	ELMD2_g1825.t1	ELMOD2
scaffold_12	30764708	30799231	MSTRG.1983.1	ELMOD2
scaffold_12	5389245	5531368	MSTRG.1856.1	ELOVL6
scaffold_12	65738526	65837126	ELP3_g1991.t1	ELP3
scaffold_12	25259082	25259289	MSTRG.1948.1	ENO1
scaffold_12	70462241	70465786	MSTRG.2215.5	ENTPD4
scaffold_12	66367257	66395415	MSTRG.2189.2	EPHX2
scaffold_12	66106643	66121249	PAN1_g1995.t1	ESCO2
scaffold_12	66105304	66130936	MSTRG.2178.1	ESCO2
scaffold_12	46267529	46299442	ETFD_g1905.t1	ETFDH
scaffold_12	15044365	15057645	EXOS9_g1771.t1	EXOSC9
scaffold_12	15044272	15057645	MSTRG.1914.1	EXOSC9
scaffold_12	65124518	65165226	EXTL3_g1984.t1	EXTL3
scaffold_12	65121492	65192717	MSTRG.2172.2	EXTL3
scaffold_12	65121492	65192717	MSTRG.2172.1	EXTL3
scaffold_12	30799617	30800229	MSTRG.1984.1	EYA3
scaffold_12	7119395	7156254	F241A_g1736.t1	FAM241A
scaffold_12	13045223	13049210	FABPI_g1761.t1	FABPI
scaffold_12	66491481	66554711	FAK2_g2002.t1	FAK2
scaffold_12	71738923	71753658	MSTRG.2249.1	FAM160B2
scaffold_12	45792497	45843806	MSTRG.2075.2	FAM193B
scaffold_12	45796057	45843653	MSTRG.2075.4	FAM193B
scaffold_12	45843833	45915894	MSTRG.2076.1	GASK1B
scaffold_12	45792497	45843806	MSTRG.2075.1	FAM198B
scaffold_12	45843833	45915894	MSTRG.2076.2	FAM198B
scaffold_12	45843833	45874604	MSTRG.2076.3	FAM198B
scaffold_12	47753493	47753694	MSTRG.2086.1	FAM60A
scaffold_12	18086402	18242950	FAT4_g1786.t2	FAT4
scaffold_12	60782678	60808576	FBX8_g1954.t1	FBXO8
scaffold_12	60782602	60785744	MSTRG.2151.2	FBXO8
scaffold_12	60779525	60829234	MSTRG.2151.1	FBXO8
scaffold_12	60803717	60829234	MSTRG.2151.4	FBXO8
scaffold_12	60808328	60819766	MSTRG.2151.5	FBXO8
scaffold_12	40509609	40541805	MSTRG.2046.3	FBXW7
scaffold_12	40509622	40734988	MSTRG.2046.4	FBXW7
scaffold_12	40599219	40734988	MSTRG.2046.5	FBXW7
scaffold_12	62406950	62441671	FDFT_g1963.t1	FDFT
scaffold_12	71785186	71790382	FGF17_g2050.t1	FGF17
scaffold_12	71795847	71815208	FGF17_g2050.t2	FGF17
scaffold_12	15922598	15978842	MSTRG.1924.3	FGF2

scaffold_12	15922208	15958531	MSTRG.1925.1	FGF2
scaffold_12	41084698	41123395	MSTRG.2050.1	FHDC1
scaffold_12	41086721	41123395	MSTRG.2050.2	FHDC1
scaffold_12	71741142	71753658	FHI2B_g2048.t1	FHI2B
scaffold_12	46346945	46475779	FNIP2_g1907.t1	FNIP2
scaffold_12	46346937	46478058	MSTRG.2079.1	FNIP2
scaffold_12	73823997	73824698	MSTRG.2266.1	FRAT1
scaffold_12	48711781	49388770	FSTL5_g1912.t1	FSTL5
scaffold_12	65354846	65427574	FZD3_g1986.t2	FZD3
scaffold_12	57826826	57827092	G6PD1_g1945.t1	G6PD1
scaffold_12	33053766	33168353	GAB1_g1834.t1	GAB1
scaffold_12	33169512	33170637	MSTRG.1991.1	GAB1
scaffold_12	33130136	33155000	MSTRG.1998.2	GAB1
scaffold_12	45799908	45842563	GAK1B_g1899.t1	GASK1B
scaffold_12	59757976	59902917	MSTRG.2141.1	GALNT7
scaffold_12	59758021	59886766	MSTRG.2141.2	GALNT7
scaffold_12	59758143	59883617	GALT7_g1947.t1	GALT7
scaffold_12	5203271	5214051	MSTRG.1852.1	GAR1
scaffold_12	62476127	62524366	GATA4_g1965.t1	GATA4
scaffold_12	62474444	62529847	MSTRG.2160.1	GATA4
scaffold_12	62474450	62539090	MSTRG.2160.2	GATA4
scaffold_12	39930020	40004908	GATB_g1863.t1	GATB
scaffold_12	39927832	40004908	MSTRG.2042.1	GATB
scaffold_12	43525671	43555553	GCYA1_g1889.t1	GCYA1
scaffold_12	66326452	66358437	GGLO_g1999.t1	GGLO
scaffold_12	61169164	61371371	GLRA3_g1957.t2	GLRA3
scaffold_12	44914362	44914582	MSTRG.2064.1	GLRB
scaffold_12	1861800	1987459	GSTCD_g1704.t1	GSTCD
scaffold_12	43493102	43561515	MSTRG.2062.4	GUCY1A1
scaffold_12	43493102	43561515	MSTRG.2062.3	GUCY1A1
scaffold_12	43586026	43616376	MSTRG.2062.7	GUCY1B3
scaffold_12	43586261	43589082	MSTRG.2062.8	GUCY1B3
scaffold_12	43616600	43628674	MSTRG.2062.9	GUCY1B3
scaffold_12	12496558	12517702	MSTRG.1890.1	GYPA
scaffold_12	71716958	71729949	HAIR_g2046.t1	HAIR
scaffold_12	3704457	3743891	HCDH_g1716.t1	HADH
scaffold_12	1650396	1651018	MSTRG.1815.1	HDHD5
scaffold_12	40733776	40734861	MSTRG.2047.1	HERPUD1
scaffold_12	64794672	64990702	MSTRG.2170.3	HMBOX1
scaffold_12	64808170	64911146	MSTRG.2170.4	HMBOX1
scaffold_12	64811011	64911146	MSTRG.2170.6	HMBOX1
scaffold_12	59910566	59912155	HMGB2_g1948.t1	HMGB2
scaffold_12	59909833	59912855	MSTRG.2143.1	HMGB2
scaffold_12	20198231	20245558	HS74L_g1790.t1	HS74L
scaffold_12	29647999	29658500	HUMMR_g1814.t1	MGARP

scaffold_12	29647999	29659206	HUMMR_g1814.t2	MGARP
scaffold_12	66368017	66451017	HYES_g2000.t1	HYES
scaffold_12	40157170	40174393	IFNB_g1865.t1	IFNB
scaffold_12	60775501	60775723	MSTRG.2146.1	IMPA2
scaffold_12	31989985	32329378	INP4B_g1832.t1	INP4B
scaffold_12	1839063	1854138	INT12_g1703.t1	INTS12
scaffold_12	64991215	65109607	INT9_g1983.t1	INTS9
scaffold_12	1837867	1861750	MSTRG.1818.2	INTS12
scaffold_12	1837594	1861425	MSTRG.1818.1	INTS12
scaffold_12	20080978	20153816	INTU_g1788.t1	INTU
scaffold_12	20135848	20137481	MSTRG.1933.2	INTU
scaffold_12	33081427	33081659	MSTRG.2001.1	IRP2
scaffold_12	70598851	70646323	MSTRG.2216.1	ITIH6
scaffold_12	70598851	70601730	MSTRG.2216.2	ITIH6
scaffold_12	21005414	21047133	JADE1_g1798.t1	JADE1
scaffold_12	20991025	21047133	JADE1_g1798.t2	JADE1
scaffold_12	20987707	21047133	MSTRG.1940.1	JADE1
scaffold_12	20989338	21047133	MSTRG.1940.2	JADE1
scaffold_12	51814858	51865157	JHD2C_g1920.t1	JMJD1C
scaffold_12	15365951	15541645	K1109_g1776.t1	BLTP1
scaffold_12	8269966	8563369	KCC2D_g1744.t1	CAMK2D
scaffold_12	68387145	68418091	KCTD9_g2014.t1	KCTD9
scaffold_12	68387105	68418091	MSTRG.2202.1	KCTD9
scaffold_12	68387105	68418091	MSTRG.2202.2	KCTD9
scaffold_12	64587004	64788946	KI13B_g1981.t1	KI13B
scaffold_12	64789003	64792864	MSTRG.2171.1	KIF13B
scaffold_12	64788980	64990702	MSTRG.2170.1	KIF13B
scaffold_12	64788980	64990702	MSTRG.2170.2	KIF13B
scaffold_12	30633120	30633417	MSTRG.1977.1	KIF26B
scaffold_12	52225564	52325856	KLHL2_g1929.t1	KLHL2
scaffold_12	17490767	17554597	MSTRG.1923.1	KLRA6
scaffold_12	20426996	20457331	LAR1B_g1795.t1	LARP1B
scaffold_12	20426754	20459192	MSTRG.1937.2	LARP1B
scaffold_12	20426829	20459192	MSTRG.1937.3	LARP1B
scaffold_12	20426660	20459192	MSTRG.1937.1	LARP1B
scaffold_12	7515497	7529006	LARP7_g1742.t1	LARP7
scaffold_12	7509737	7529006	MSTRG.1872.1	LARP7
scaffold_12	7509746	7529006	MSTRG.1872.2	LARP7
scaffold_12	7509791	7529006	MSTRG.1872.3	LARP7
scaffold_12	3753626	3867215	MSTRG.1838.1	LEF1
scaffold_12	71692857	71701304	MSTRG.2245.1	LGI3
scaffold_12	73665069	73693614	LIPL_g2058.t1	LIPL
scaffold_12	44215944	44216156	LOC000000063_g1894.t1	LOC000000063
scaffold_12	70534449	70597583	LOXL2_g2028.t1	LOXL2
scaffold_12	70506020	70597583	MSTRG.2214.1	LOXL2

scaffold_12	42723503	42727988	LRAT_g1885.t1	LRAT
scaffold_12	38678422	38973863	LRBA_g1857.t1	LRBA
scaffold_12	38668781	39392241	MSTRG.2040.1	LRBA
scaffold_12	38668831	38824772	MSTRG.2040.3	LRBA
scaffold_12	39316158	39375922	MSTRG.2040.6	LRBA
scaffold_12	38668831	39392698	MSTRG.2040.2	LRBA
scaffold_12	5237200	5249266	LRIT3_g1729.t1	LRIT3
scaffold_12	35098316	35117867	LSM6_g1844.t1	LSM6
scaffold_12	244683	248047	LSRA_g1693.t1	LSRA
scaffold_12	45857654	45861784	MSTRG.2077.1	LY75
scaffold_12	73385305	73391090	LZTS1_g2055.t1	LZTS1
scaffold_12	13489330	13497365	MSTRG.1904.1	MAD2L1
scaffold_12	30012710	30411621	MAML3_g1820.t1	MAML3
scaffold_12	30005200	30443491	MSTRG.1979.1	MAML3
scaffold_12	30009695	30411621	MSTRG.1979.2	MAML3
scaffold_12	30010075	30443491	MSTRG.1979.3	MAML3
scaffold_12	43227367	43261799	MSTRG.2058.1	MAP9
scaffold_12	43228558	43253182	MSTRG.2058.2	MAP9
scaffold_12	43229848	43261799	MSTRG.2058.3	MAP9
scaffold_12	50679072	50973161	MARH1_g1919.t1	MARH1
scaffold_12	62445281	62445507	MSTRG.2158.1	MARS2
scaffold_12	38976761	38977840	MB212_g1858.t1	MB212
scaffold_12	1651954	1652311	MSTRG.1816.1	MBD1
scaffold_12	33105040	33105300	MSTRG.2002.1	MCCC2
scaffold_12	36796674	37136384	MCR_g1853.t1	MCR
scaffold_12	12503675	12531193	MET14_g1756.t1	METTL14
scaffold_12	12521434	12535640	MSTRG.1891.3	METTL14
scaffold_12	56734342	56748348	MFA3L_g1943.t1	MFA3L
scaffold_12	70349857	70386585	MFRN1_g2027.t1	SLC25A37
scaffold_12	20320201	20354272	MFSD8_g1792.t1	MFSD8
scaffold_12	29646080	29659206	MSTRG.1971.1	MGARP
scaffold_12	29981926	30008513	MSTRG.1978.1	MGST2
scaffold_12	29982411	30006487	MSTRG.1978.2	MGST2
scaffold_12	47166139	47166440	MSTRG.2092.1	MIOS
scaffold_12	34682358	34695439	MMAA_g1842.t1	MMAA
scaffold_12	34671318	34695439	MSTRG.2013.1	MMAA
scaffold_12	41440636	41514266	MND1_g1872.t1	MND1
scaffold_12	52335555	52346043	MSMO1_g1930.t1	MSMO1
scaffold_12	52330229	52346043	MSTRG.2119.2	MSMO1
scaffold_12	63973607	64362776	MSRA_g1980.t1	MSRA
scaffold_12	62943947	62945149	MSTRG.2161.1	MTMR9
scaffold_12	62945783	62946827	MSTRG.2162.1	MTMR9
scaffold_12	62947986	63001103	MTMR9_g1970.t1	MTMR9
scaffold_12	29675100	29752436	NAA15_g1816.t1	NAA15
scaffold_12	50368142	50368452	MSTRG.2101.1	NAF1

scaffold_12	50323443	50367290	NAF1_g1914.t2	NAF1
scaffold_12	14301809	14311399	NDNF_g1766.t1	NDNF
scaffold_12	29667825	29670446	NDUC1_g1815.t1	NDUFC1
scaffold_12	29667825	29670446	MSTRG.1969.1	NDUFC1
scaffold_12	62447863	62466057	MSTRG.2159.1	NEIL2
scaffold_12	56230997	56411307	MSTRG.2131.1	NEK1
scaffold_12	56230997	56403324	NEK1_g1940.t1	NEK1
scaffold_12	56229766	56230058	MSTRG.2130.1	NEK1
scaffold_12	12361322	12436244	NETR_g1755.t1	NETR
scaffold_12	68872698	68876478	NFL_g2016.t1	NFL
scaffold_12	68902360	68906961	NFM_g2017.t1	NFM
scaffold_12	280631	357150	NK3R_g1694.t1	NK3R
scaffold_12	70242286	70244142	NKX31_g2026.t1	NKX31
scaffold_12	29454217	29481349	NOCT_g1812.t1	NOCT
scaffold_12	29454021	29481349	MSTRG.1963.1	NOCT
scaffold_12	69366025	69440128	ADAM7_g2018.t1	ADAM7_g2018.t1
scaffold_12	52415680	52483117	BRCA2_g1931.t1	BRCA2_g1931.t1
scaffold_12	3074402	3074893	FV1_g1711.t1	FV1_g1711.t1
scaffold_12	1673596	1676357	LACB2_g1701.t1	LACB2_g1701.t1
scaffold_12	1861907	1965905	MSTRG.1819.4	MSTRG.1819.4
scaffold_12	1862094	1989211	MSTRG.1819.6	MSTRG.1819.6
scaffold_12	2435631	2521860	MSTRG.1822.1	MSTRG.1822.1
scaffold_12	2538802	2539775	MSTRG.1824.1	MSTRG.1824.1
scaffold_12	2147487	2368253	MSTRG.1825.2	MSTRG.1825.2
scaffold_12	2368287	2396294	MSTRG.1826.2	MSTRG.1826.2
scaffold_12	2368417	2381383	MSTRG.1826.3	MSTRG.1826.3
scaffold_12	2542966	2543215	MSTRG.1829.1	MSTRG.1829.1
scaffold_12	4902970	4986259	MSTRG.1851.4	MSTRG.1851.4
scaffold_12	5299919	5300147	MSTRG.1862.1	MSTRG.1862.1
scaffold_12	7860007	7862139	MSTRG.1871.1	MSTRG.1871.1
scaffold_12	8982567	8982848	MSTRG.1877.1	MSTRG.1877.1
scaffold_12	12449958	12450160	MSTRG.1878.1	MSTRG.1878.1
scaffold_12	13533578	13533796	MSTRG.1903.1	MSTRG.1903.1
scaffold_12	15346740	15541645	MSTRG.1919.3	MSTRG.1919.3
scaffold_12	15346740	15541645	MSTRG.1919.4	MSTRG.1919.4
scaffold_12	15346760	15541645	MSTRG.1919.6	MSTRG.1919.6
scaffold_12	21814805	21815024	MSTRG.1941.1	MSTRG.1941.1
scaffold_12	22837127	22837341	MSTRG.1942.1	MSTRG.1942.1
scaffold_12	24005558	24005767	MSTRG.1943.1	MSTRG.1943.1
scaffold_12	21116015	21116220	MSTRG.1955.1	MSTRG.1955.1
scaffold_12	28699043	28780971	MSTRG.1964.1	MSTRG.1964.1
scaffold_12	28699305	28780971	MSTRG.1964.3	MSTRG.1964.3
scaffold_12	31062997	31063222	MSTRG.1986.1	MSTRG.1986.1
scaffold_12	33583200	33583407	MSTRG.1995.1	MSTRG.1995.1
scaffold_12	35104725	35117867	MSTRG.2017.3	MSTRG.2017.3

scaffold_12	36362282	36362505	MSTRG.2030.1	MSTRG.2030.1
scaffold_12	39757762	39921979	MSTRG.2044.1	MSTRG.2044.1
scaffold_12	39776332	39776535	MSTRG.2045.1	MSTRG.2045.1
scaffold_12	40499535	40734988	MSTRG.2046.1	MSTRG.2046.1
scaffold_12	41316509	41434575	MSTRG.2051.2	MSTRG.2051.2
scaffold_12	43329757	43329959	MSTRG.2061.1	MSTRG.2061.1
scaffold_12	45795190	45843653	MSTRG.2075.3	MSTRG.2075.3
scaffold_12	46587150	46587364	MSTRG.2083.1	MSTRG.2083.1
scaffold_12	50671433	50671674	MSTRG.2103.1	MSTRG.2103.1
scaffold_12	50672093	50672456	MSTRG.2104.1	MSTRG.2104.1
scaffold_12	50718862	50719069	MSTRG.2108.1	MSTRG.2108.1
scaffold_12	51882292	51883779	MSTRG.2111.1	MSTRG.2111.1
scaffold_12	55828105	55828320	MSTRG.2124.1	MSTRG.2124.1
scaffold_12	55732650	55821897	MSTRG.2128.3	MSTRG.2128.3
scaffold_12	55732710	55821897	MSTRG.2128.4	MSTRG.2128.4
scaffold_12	56247710	56290481	MSTRG.2131.3	MSTRG.2131.3
scaffold_12	56328805	56329016	MSTRG.2133.1	MSTRG.2133.1
scaffold_12	58782658	58782861	MSTRG.2139.1	MSTRG.2139.1
scaffold_12	58573616	58573831	MSTRG.2145.1	MSTRG.2145.1
scaffold_12	61887337	61887559	MSTRG.2147.1	MSTRG.2147.1
scaffold_12	62051337	62051671	MSTRG.2148.1	MSTRG.2148.1
scaffold_12	62328116	62328338	MSTRG.2150.1	MSTRG.2150.1
scaffold_12	64598229	64788946	MSTRG.2169.2	MSTRG.2169.2
scaffold_12	66133046	66184966	MSTRG.2183.1	MSTRG.2183.1
scaffold_12	66213595	66213829	MSTRG.2184.1	MSTRG.2184.1
scaffold_12	67085133	67085347	MSTRG.2193.1	MSTRG.2193.1
scaffold_12	71444417	71487094	MSTRG.2239.1	MSTRG.2239.1
scaffold_12	71554934	71555155	MSTRG.2241.1	MSTRG.2241.1
scaffold_12	71701967	71702450	MSTRG.2244.1	MSTRG.2244.1
scaffold_12	73663172	73693614	MSTRG.2261.1	MSTRG.2261.1
scaffold_12	10283	14644	MSTRG.1807.1	NOTHING
scaffold_12	137969	138204	MSTRG.1808.1	NOTHING
scaffold_12	362813	363042	MSTRG.1810.1	NOTHING
scaffold_12	1861720	1901304	MSTRG.1819.1	NOTHING
scaffold_12	1861821	1989211	MSTRG.1819.3	NOTHING
scaffold_12	1862020	1989211	MSTRG.1819.5	NOTHING
scaffold_12	2400909	2401130	MSTRG.1820.1	NOTHING
scaffold_12	2527156	2527381	MSTRG.1821.1	NOTHING
scaffold_12	2435680	2510029	MSTRG.1822.2	NOTHING
scaffold_12	2435722	2453725	MSTRG.1822.3	NOTHING
scaffold_12	2147487	2368253	MSTRG.1825.1	NOTHING
scaffold_12	2282496	2356227	MSTRG.1825.4	NOTHING
scaffold_12	2368287	2396294	MSTRG.1826.1	NOTHING
scaffold_12	2368621	2381383	MSTRG.1826.4	NOTHING
scaffold_12	2548297	2548520	MSTRG.1830.1	NOTHING

scaffold_12	3505176	3505575	MSTRG.1831.1	NOTHING
scaffold_12	2553101	2553322	MSTRG.1833.1	NOTHING
scaffold_12	3577283	3653956	MSTRG.1834.1	NOTHING
scaffold_12	4032294	4032515	MSTRG.1839.1	NOTHING
scaffold_12	4036707	4037043	MSTRG.1840.1	NOTHING
scaffold_12	4051848	4052062	MSTRG.1842.1	NOTHING
scaffold_12	4059102	4059303	MSTRG.1843.1	NOTHING
scaffold_12	4063378	4063578	MSTRG.1844.1	NOTHING
scaffold_12	4072354	4072561	MSTRG.1845.1	NOTHING
scaffold_12	4093529	4093741	MSTRG.1846.1	NOTHING
scaffold_12	4173247	4173563	MSTRG.1847.1	NOTHING
scaffold_12	4934351	4939871	MSTRG.1851.7	NOTHING
scaffold_12	7045178	7045389	MSTRG.1854.1	NOTHING
scaffold_12	5489747	5496551	MSTRG.1857.1	NOTHING
scaffold_12	5489813	5495146	MSTRG.1857.2	NOTHING
scaffold_12	7088427	7092498	MSTRG.1858.1	NOTHING
scaffold_12	7119741	7160582	MSTRG.1863.2	NOTHING
scaffold_12	7805625	7805826	MSTRG.1868.1	NOTHING
scaffold_12	7842958	7843174	MSTRG.1869.1	NOTHING
scaffold_12	7749653	7749875	MSTRG.1870.1	NOTHING
scaffold_12	7516582	7516956	MSTRG.1872.5	NOTHING
scaffold_12	8208563	8208886	MSTRG.1873.1	NOTHING
scaffold_12	7905363	7910672	MSTRG.1876.1	NOTHING
scaffold_12	8269250	8269450	MSTRG.1885.1	NOTHING
scaffold_12	8279994	8341481	MSTRG.1886.2	NOTHING
scaffold_12	12510084	12535640	MSTRG.1891.2	NOTHING
scaffold_12	12535701	12644648	MSTRG.1892.1	NOTHING
scaffold_12	12706741	12712392	MSTRG.1896.1	NOTHING
scaffold_12	13052454	13063633	MSTRG.1900.1	NOTHING
scaffold_12	13274492	13274696	MSTRG.1901.1	NOTHING
scaffold_12	13066342	13096871	MSTRG.1905.1	NOTHING
scaffold_12	13102809	13113385	MSTRG.1907.1	NOTHING
scaffold_12	13102902	13107060	MSTRG.1907.2	NOTHING
scaffold_12	13187663	13202688	MSTRG.1908.1	NOTHING
scaffold_12	14925726	14925934	MSTRG.1910.1	NOTHING
scaffold_12	14928239	14928575	MSTRG.1911.1	NOTHING
scaffold_12	15844954	15845160	MSTRG.1916.1	NOTHING
scaffold_12	15833026	15843471	MSTRG.1917.1	NOTHING
scaffold_12	15346688	15541645	MSTRG.1919.1	NOTHING
scaffold_12	15346756	15541645	MSTRG.1919.5	NOTHING
scaffold_12	15922208	15978300	MSTRG.1924.1	NOTHING
scaffold_12	15922221	15978842	MSTRG.1924.2	NOTHING
scaffold_12	17467040	17467271	MSTRG.1929.1	NOTHING
scaffold_12	17486464	17486710	MSTRG.1930.1	NOTHING
scaffold_12	20318326	20318527	MSTRG.1936.1	NOTHING

scaffold_12	20618485	20618692	MSTRG.1939.1	NOTHING
scaffold_12	24484825	24485031	MSTRG.1945.1	NOTHING
scaffold_12	24485349	24485575	MSTRG.1946.1	NOTHING
scaffold_12	21119607	21224281	MSTRG.1949.3	NOTHING
scaffold_12	21073657	21073860	MSTRG.1950.1	NOTHING
scaffold_12	21084073	21084283	MSTRG.1951.1	NOTHING
scaffold_12	21100346	21100645	MSTRG.1952.1	NOTHING
scaffold_12	21101598	21102073	MSTRG.1953.1	NOTHING
scaffold_12	21104312	21104525	MSTRG.1954.1	NOTHING
scaffold_12	21224652	21244704	MSTRG.1956.1	NOTHING
scaffold_12	26828675	26828882	MSTRG.1958.1	NOTHING
scaffold_12	28699305	28780971	MSTRG.1964.2	NOTHING
scaffold_12	29663012	29663231	MSTRG.1968.1	NOTHING
scaffold_12	29784893	29785117	MSTRG.1972.1	NOTHING
scaffold_12	29959637	29959861	MSTRG.1975.1	NOTHING
scaffold_12	30309888	30385373	MSTRG.1980.1	NOTHING
scaffold_12	30399505	30434996	MSTRG.1981.1	NOTHING
scaffold_12	30890279	30892347	MSTRG.1988.1	NOTHING
scaffold_12	33171812	33172034	MSTRG.1992.1	NOTHING
scaffold_12	33176418	33176644	MSTRG.1994.1	NOTHING
scaffold_12	33068439	33068816	MSTRG.1999.1	NOTHING
scaffold_12	33078912	33079112	MSTRG.2000.1	NOTHING
scaffold_12	33110879	33111096	MSTRG.2003.1	NOTHING
scaffold_12	33122019	33122223	MSTRG.2004.1	NOTHING
scaffold_12	34270809	34271018	MSTRG.2009.1	NOTHING
scaffold_12	34375209	34375413	MSTRG.2010.1	NOTHING
scaffold_12	34822174	34840994	MSTRG.2015.1	NOTHING
scaffold_12	35152260	35152476	MSTRG.2016.1	NOTHING
scaffold_12	35104681	35117867	MSTRG.2017.2	NOTHING
scaffold_12	35235455	35235666	MSTRG.2018.1	NOTHING
scaffold_12	35258134	35258359	MSTRG.2019.1	NOTHING
scaffold_12	35272349	35272568	MSTRG.2021.1	NOTHING
scaffold_12	35292432	35293546	MSTRG.2022.1	NOTHING
scaffold_12	35331890	35332117	MSTRG.2023.1	NOTHING
scaffold_12	36318315	36325485	MSTRG.2026.1	NOTHING
scaffold_12	36280631	36282306	MSTRG.2028.1	NOTHING
scaffold_12	36551533	36561222	MSTRG.2033.1	NOTHING
scaffold_12	36640281	36641184	MSTRG.2034.1	NOTHING
scaffold_12	39459981	39460204	MSTRG.2038.1	NOTHING
scaffold_12	39463769	39463988	MSTRG.2039.1	NOTHING
scaffold_12	40735902	40736211	MSTRG.2043.1	NOTHING
scaffold_12	41316400	41434575	MSTRG.2051.1	NOTHING
scaffold_12	43310925	43311212	MSTRG.2056.1	NOTHING
scaffold_12	43254760	43254978	MSTRG.2059.1	NOTHING
scaffold_12	43255937	43256138	MSTRG.2060.1	NOTHING

scaffold_12	43483656	43549125	MSTRG.2062.2	NOTHING
scaffold_12	43466694	43482464	MSTRG.2063.2	NOTHING
scaffold_12	43731656	43732229	MSTRG.2065.1	NOTHING
scaffold_12	45790540	45790746	MSTRG.2068.1	NOTHING
scaffold_12	45918116	45918337	MSTRG.2070.1	NOTHING
scaffold_12	45930330	45930559	MSTRG.2072.1	NOTHING
scaffold_12	45863296	45868286	MSTRG.2076.4	NOTHING
scaffold_12	45863296	45868286	MSTRG.2076.5	NOTHING
scaffold_12	45903694	45911651	MSTRG.2078.1	NOTHING
scaffold_12	47689368	47740917	MSTRG.2085.1	NOTHING
scaffold_12	47126315	47143209	MSTRG.2090.1	NOTHING
scaffold_12	47146131	47162360	MSTRG.2091.1	NOTHING
scaffold_12	47167926	47462151	MSTRG.2093.1	NOTHING
scaffold_12	47435991	47462151	MSTRG.2093.3	NOTHING
scaffold_12	47237587	47248450	MSTRG.2094.1	NOTHING
scaffold_12	47586053	47586262	MSTRG.2096.1	NOTHING
scaffold_12	47591806	47598711	MSTRG.2097.1	NOTHING
scaffold_12	47607231	47609209	MSTRG.2098.1	NOTHING
scaffold_12	50313938	50314148	MSTRG.2100.1	NOTHING
scaffold_12	50674832	50675052	MSTRG.2106.1	NOTHING
scaffold_12	52277715	52277940	MSTRG.2118.1	NOTHING
scaffold_12	52330229	52346043	MSTRG.2119.1	NOTHING
scaffold_12	53414785	53414998	MSTRG.2120.1	NOTHING
scaffold_12	55414665	55414892	MSTRG.2122.1	NOTHING
scaffold_12	55847885	55848100	MSTRG.2125.1	NOTHING
scaffold_12	55850573	55850785	MSTRG.2126.1	NOTHING
scaffold_12	55547322	55821897	MSTRG.2128.2	NOTHING
scaffold_12	56110761	56120447	MSTRG.2129.4	NOTHING
scaffold_12	56302451	56378537	MSTRG.2131.4	NOTHING
scaffold_12	56233343	56233567	MSTRG.2132.1	NOTHING
scaffold_12	56330484	56330703	MSTRG.2134.1	NOTHING
scaffold_12	59756830	59757045	MSTRG.2137.1	NOTHING
scaffold_12	59909016	59909259	MSTRG.2140.1	NOTHING
scaffold_12	62306330	62306656	MSTRG.2149.1	NOTHING
scaffold_12	62403582	62403946	MSTRG.2153.1	NOTHING
scaffold_12	62334530	62334736	MSTRG.2154.1	NOTHING
scaffold_12	62381162	62381364	MSTRG.2155.1	NOTHING
scaffold_12	63474469	63579325	MSTRG.2164.1	NOTHING
scaffold_12	63497254	63497463	MSTRG.2165.1	NOTHING
scaffold_12	63520952	63521208	MSTRG.2166.1	NOTHING
scaffold_12	65991138	65991388	MSTRG.2175.1	NOTHING
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scaffold_12	66077090	66101029	MSTRG.2177.2	NOTHING
scaffold_12	66188374	66188610	MSTRG.2179.1	NOTHING
scaffold_12	66192429	66192660	MSTRG.2180.1	NOTHING

scaffold_12	66196546	66196773	MSTRG.2181.1	NOTHING
scaffold_12	66201229	66201436	MSTRG.2182.1	NOTHING
scaffold_12	66242993	66243194	MSTRG.2185.1	NOTHING
scaffold_12	66320113	66320331	MSTRG.2188.1	NOTHING
scaffold_12	66359551	66376711	MSTRG.2189.1	NOTHING
scaffold_12	67962725	67963022	MSTRG.2199.1	NOTHING
scaffold_12	69758817	69759019	MSTRG.2203.1	NOTHING
scaffold_12	69238180	69238445	MSTRG.2207.1	NOTHING
scaffold_12	70071975	70072177	MSTRG.2210.1	NOTHING
scaffold_12	70446623	70477511	MSTRG.2215.1	NOTHING
scaffold_12	70446623	70462240	MSTRG.2215.2	NOTHING
scaffold_12	70446639	70477511	MSTRG.2215.3	NOTHING
scaffold_12	70446640	70477511	MSTRG.2215.4	NOTHING
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scaffold_12	70848000	70860166	MSTRG.2221.1	NOTHING
scaffold_12	70730885	70731373	MSTRG.2223.1	NOTHING
scaffold_12	70846639	70847353	MSTRG.2225.1	NOTHING
scaffold_12	70890173	70890394	MSTRG.2227.1	NOTHING
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scaffold_12	73410514	73410724	MSTRG.2252.1	NOTHING
scaffold_12	73411340	73411853	MSTRG.2253.1	NOTHING
scaffold_12	71831834	71918027	MSTRG.2255.2	NOTHING
scaffold_12	73525499	73525717	MSTRG.2256.1	NOTHING
scaffold_12	73549200	73639111	MSTRG.2259.1	NOTHING
scaffold_12	73545982	73546777	MSTRG.2260.1	NOTHING
scaffold_12	73867346	73867547	MSTRG.2262.1	NOTHING
scaffold_12	73869331	73869544	MSTRG.2264.1	NOTHING
scaffold_12	73945545	73945768	MSTRG.2267.1	NOTHING
scaffold_12	2025644	2103519	MSTRG.1817.1	NPNT
scaffold_12	2025731	2103519	NPNT_g1705.t1	NPNT
scaffold_12	50508273	50509643	NPY5R_g1916.t1	NPY5R
scaffold_12	46195793	46256650	NRBP_g1903.t1	NRBP1
scaffold_12	71735301	71737445	NUD18_g2047.t1	NUD18
scaffold_12	71737655	71737861	MSTRG.2251.1	NUDT18
scaffold_12	15978103	15984005	MSTRG.1926.1	NUDT6
scaffold_12	15978566	16008709	NUDT6_g1781.t1	NUDT6
scaffold_12	15978869	16008709	MSTRG.1926.3	NUDT6
scaffold_12	33052932	33053516	MSTRG.1997.1	OBSCN
scaffold_12	7092946	7093202	MSTRG.1859.1	OR4C15P
scaffold_12	4234160	4247958	MSTRG.1849.1	OSTC
scaffold_12	34274686	34274888	MSTRG.2005.1	OTUD4
scaffold_12	34272702	34274056	MSTRG.2006.1	OTUD4
scaffold_12	34276652	34315037	OTUD4_g1840.t1	OTUD4
scaffold_12	11923981	11926817	MSTRG.1881.1	PABPC1

scaffold_12	25297909	25298166	MSTRG.1957.1	PABPC4L
scaffold_12	25302436	25302747	MSTRG.1959.1	PABPC4L
scaffold_12	55779164	55821044	PALLD_g1937.t1	PALLD
scaffold_12	3415923	3500969	PAPS1_g1712.t1	PAPSS1
scaffold_12	2533339	2533570	MSTRG.1823.1	PAQR8
scaffold_12	28156838	28157505	PCD18_g1809.t1	PCD18
scaffold_12	24482659	24482901	MSTRG.1944.1	PCDH10
scaffold_12	24442875	24462962	MSTRG.1947.2	PCDH10
scaffold_12	18200119	18226455	MSTRG.1927.3	PCDH15
scaffold_12	28155623	28169555	MSTRG.1962.1	PCDH18
scaffold_12	36317397	36317866	MSTRG.2025.1	PCDHA3
scaffold_12	20154268	20154620	MSTRG.1928.1	PCP
scaffold_12	13071845	13204511	MSTRG.1906.1	PDE5A
scaffold_12	13076136	13204511	PDE5A_g1762.t1	PDE5A
scaffold_12	44522040	44730994	MSTRG.2066.1	PDGFC
scaffold_12	44529063	44730994	PDGFC_g1896.t1	PDGFC
scaffold_12	71285995	71298005	PDLI2_g2037.t1	PDLIM2
scaffold_12	71285642	71293123	MSTRG.2234.1	PDLIM2
scaffold_12	47387314	47387559	PDS5A_g1910.t1	PDS5A
scaffold_12	71112781	71172064	PEBP4_g2033.t1	PEBP4
scaffold_12	3404510	3404721	MSTRG.1827.1	PGBP
scaffold_12	61032242	61060972	PGDH_g1956.t1	HPGD
scaffold_12	20581134	20597326	PGRC2_g1796.t1	PGRC2
scaffold_12	20579064	20597326	MSTRG.1938.1	PGRMC2
scaffold_12	63474584	63579325	PINX1_g1973.t1	PINX1
scaffold_12	5869262	5873543	PITX2_g1733.t1	PITX2
scaffold_12	71495593	71593473	PIWL2_g2040.t1	PIWIL2
scaffold_12	20289545	20305398	MSTRG.1935.1	PLK4
scaffold_12	20290529	20305398	MSTRG.1935.3	PLK4
scaffold_12	42506560	42520100	PLRG1_g1880.t1	PLRG1
scaffold_12	42505706	42520100	MSTRG.2055.1	PLRG1
scaffold_12	65576220	65586562	PNOC_g1990.t1	PNOC
scaffold_12	71610136	71617881	MSTRG.2242.1	POL3RD
scaffold_12	71610308	71617881	MSTRG.2242.2	POLR3D
scaffold_12	70668974	70671462	MSTRG.2218.1	POLR3D
scaffold_12	1570208	1634551	MSTRG.1814.1	PPA2
scaffold_12	46299443	46314114	MSTRG.2081.1	PPID
scaffold_12	47758962	47761609	MSTRG.2087.1	PPIG
scaffold_12	67575035	67664666	MSTRG.2197.1	PPP2R2A
scaffold_12	67574142	67574678	MSTRG.2200.1	PPP2R2A
scaffold_12	71330498	71433675	MSTRG.2238.1	PPP3CC
scaffold_12	71330504	71433675	MSTRG.2238.2	PPP3CC
scaffold_12	14025201	14034093	MSTRG.1909.1	PRDM5
scaffold_12	36424400	36461536	MSTRG.2031.1	PRMT9
scaffold_12	63837857	63850863	PRS55_g1978.t1	PRSS55

scaffold_12	12357871	12367090	MSTRG.1879.1	PRSS12
scaffold_12	71684855	71687124	PSPC_g2043.t1	PSPC
scaffold_12	66490553	66618456	MSTRG.2190.1	PTK2B
scaffold_12	14585434	14635326	MSTRG.1912.3	QRFPR
scaffold_12	14587078	14635326	QRFPR_g1768.t1	QRFPR
scaffold_12	14585184	14635326	MSTRG.1912.1	QRFPR
scaffold_12	14585374	14622090	MSTRG.1912.2	QRFPR
scaffold_12	70598992	70607191	R3HC1_g2029.t1	R3HCC1
scaffold_12	29795125	29814926	MSTRG.1973.1	RAB33B
scaffold_12	8292484	8292688	MSTRG.1887.1	RABGAP1L
scaffold_12	46648864	46900875	MSTRG.2084.1	RAPGEF2
scaffold_12	46648923	46900875	MSTRG.2084.2	RAPGEF2
scaffold_12	46777532	46900875	MSTRG.2084.4	RAPGEF2
scaffold_12	46777545	46900875	MSTRG.2084.5	RAPGEF2
scaffold_12	29795573	29814121	RB33B_g1817.t1	RAB33B
scaffold_12	42762838	42795841	RBM46_g1886.t1	RBM46
scaffold_12	71704889	71708443	REEP4_g2045.t1	REEP4
scaffold_12	35138211	35149832	RELD1_g1845.t1	REELD1
scaffold_12	35138106	35149832	RELD1_g1845.t2	REELD1
scaffold_12	70903046	70936994	RHBT2_g2032.t1	RHOBTB2
scaffold_12	36496930	36787774	RHG10_g1852.t1	ARHGAP10
scaffold_12	30443520	30443852	RHG40_g1821.t1	RHG40
scaffold_12	4207750	4211011	RL34_g1719.t1	RPL34
scaffold_12	31088949	31160281	RN150_g1828.t1	RNF150
scaffold_12	31227604	31282778	RN150_g1829.t1	RNF150
scaffold_12	46650014	46899170	RPGF2_g1909.t1	RAPGEF2
scaffold_12	4206381	4211011	MSTRG.1848.1	RPL34
scaffold_12	4206564	4211011	MSTRG.1848.2	RPL34
scaffold_12	5214953	5215169	MSTRG.1855.1	RRH
scaffold_12	39450027	39454934	RS3A_g1860.t1	RPS3A
scaffold_12	71448034	71460179	S39AE_g2039.t1	SLC39A14
scaffold_12	4916365	4986259	SC24B_g1723.t1	SC24B
scaffold_12	12543140	12642283	SC24D_g1757.t1	SEC24D
scaffold_12	66248630	66291341	SCAR3_g1997.t1	SCAR3
scaffold_12	65912445	66034883	SCAR5_g1993.t1	ZNF592
scaffold_12	66248133	66291341	MSTRG.2186.1	SCARA3
scaffold_12	21055470	21197219	SCLT1_g1799.t1	SCLT1
scaffold_12	21055173	21224281	MSTRG.1949.1	SCLT1
scaffold_12	30631668	30640589	SCOC_g1822.t1	SCOC
scaffold_12	59961803	60095815	SCRG1_g1950.t1	SCRG1
scaffold_12	47314812	47585608	MSTRG.2093.2	SDR42E1
scaffold_12	4899351	4986259	MSTRG.1851.1	SEC24B
scaffold_12	4899382	4986259	MSTRG.1851.2	SEC24B
scaffold_12	4899528	4986259	MSTRG.1851.3	SEC24B
scaffold_12	4916365	4986259	MSTRG.1851.5	SEC24B

scaffold_12	12540250	12644648	MSTRG.1892.2	SEC24D
scaffold_12	12638299	12644648	MSTRG.1892.4	SEC24D
scaffold_12	29853522	29892568	SETD7_g1818.t1	SETD7
scaffold_12	41828589	41835914	SFRP2_g1876.t1	SFRP2
scaffold_12	39475874	39498289	MSTRG.2053.3	SH3D19
scaffold_12	39464563	39632702	MSTRG.2053.1	SH3D19
scaffold_12	55956091	56120447	SH3R1_g1939.t1	SH3RF1
scaffold_12	55953809	56122201	MSTRG.2129.1	SH3RF1
scaffold_12	55954168	56122201	MSTRG.2129.2	SH3RF1
scaffold_12	35172406	35221480	MSTRG.2020.1	SLC10A7
scaffold_12	35400629	35413996	MSTRG.2024.1	SLC10A7
scaffold_12	65848342	65892157	SLIP_g1992.t1	NUGGC
scaffold_12	34552389	34633556	MSTRG.2012.1	SMAD1
scaffold_12	34589017	34631826	SMAD1_g1841.t1	SMAD1
scaffold_12	33259256	33259601	MSTRG.1993.1	SMARCA5
scaffold_12	33218170	33258458	SMCA5_g1835.t1	SMCA5
scaffold_12	43438705	43631769	MSTRG.2062.1	SNPH
scaffold_12	43438705	43482464	MSTRG.2063.1	SNPH
scaffold_12	71328621	71329122	MSTRG.2236.1	SORBS3
scaffold_12	71301309	71310410	MSTRG.2237.1	SORBS3
scaffold_12	71301309	71322224	MSTRG.2237.2	SORBS3
scaffold_12	63614720	63619615	SOX7_g1975.t1	SOX7
scaffold_12	16009180	16355517	MSTRG.1931.1	SPATA5
scaffold_12	16425948	16426562	MSTRG.1920.1	SPRY1
scaffold_12	16425958	16427200	MSTRG.1921.1	SPRY1
scaffold_12	16427253	16432589	MSTRG.1922.1	SPRY1
scaffold_12	16428251	16432589	MSTRG.1922.2	SPRY1
scaffold_12	16430455	16431664	SPY1_g1784.t1	SPY1
scaffold_12	70071656	70080953	STC1_g2024.t1	STC1
scaffold_12	70081908	70082135	MSTRG.2204.1	STC1
scaffold_12	70082571	70083119	MSTRG.2212.1	STC1
scaffold_12	56796471	56796714	MSTRG.2138.1	STYK1
scaffold_12	12697303	12858347	SYNP2_g1758.t1	SYNPO2
scaffold_12	12858769	12859540	MSTRG.1889.1	SYNPO2
scaffold_12	12859856	12860145	MSTRG.1893.1	SYNPO2
scaffold_12	66714084	66714301	MSTRG.2191.1	SYT5
scaffold_12	41557259	41714053	T131L_g1873.t1	TMEM131L
scaffold_12	36325858	36424187	T184C_g1850.t1	T184C
scaffold_12	43712838	43729924	T23O_g1892.t1	TDO2
scaffold_12	3698072	3703006	TAF1L_g1715.t1	TAF1L
scaffold_12	4045899	4046121	MSTRG.1841.1	TAF8
scaffold_12	30849642	30960909	MSTRG.1987.1	TBC1D9
scaffold_12	30902924	30920728	MSTRG.1987.3	TBC1D9
scaffold_12	30851354	30960612	TBCD9_g1827.t1	TBCD9
scaffold_12	2156541	2355741	TBCK_g1706.t1	TBCK

scaffold_12	201307	201508	MSTRG.1809.1	TBL1XR1
scaffold_12	1379498	1504527	MSTRG.1813.1	TET2
scaffold_12	1379682	1437337	MSTRG.1813.2	TET2
scaffold_12	1462645	1502563	TET2_g1698.t1	TET2
scaffold_12	1462447	1502563	TET2_g1698.t2	TET2
scaffold_12	7250733	7257889	MSTRG.1865.1	TIFA
scaffold_12	7251541	7252122	TIFA_g1738.t1	TIFA
scaffold_12	40934221	40934444	MSTRG.2048.1	TIGD4
scaffold_12	40933038	40934136	TIGD4_g1868.t1	TIGD4
scaffold_12	50624006	50625883	TKTL2_g1917.t1	TKTL2
scaffold_12	41753247	41755601	TLR2_g1874.t1	TLR2
scaffold_12	45882968	45915894	TM144_g1900.t1	TM144
scaffold_12	52113688	52142049	TM192_g1928.t1	TMEM192
scaffold_12	50640407	50670489	TMA16_g1918.t1	TMA16
scaffold_12	27089464	27089774	MSTRG.1961.1	TMED5
scaffold_12	36398719	36424187	MSTRG.2029.2	TMEM184C
scaffold_12	52112616	52142289	MSTRG.2116.1	TMEM192
scaffold_12	70696671	70697594	MSTRG.2219.1	TNFRSF10B
scaffold_12	70696671	70697594	MSTRG.2219.2	TNFRSF10B
scaffold_12	70828804	70845712	MSTRG.2222.1	TNFRSF10B
scaffold_12	70828804	70837163	MSTRG.2222.2	TNFRSF10B
scaffold_12	70715524	70730125	MSTRG.2224.1	TNFRSF10B
scaffold_12	14391819	14423854	TNIP3_g1767.t1	TNIP3
scaffold_12	15845967	15846176	MSTRG.1918.1	TOP2B
scaffold_12	66090872	66100552	TOPK_g1994.t1	TOPK
scaffold_12	70890805	70891062	TR10A_g2031.t1	TNFRSF10A
scaffold_12	11391532	11392644	TR1L1_g1752.t1	TRAM1L1
scaffold_12	11391023	11391314	MSTRG.1883.1	TRAM1L1
scaffold_12	66630094	66656759	TRI35_g2003.t1	TRI35
scaffold_12	51909896	51911326	TRI60_g1921.t1	TRI60
scaffold_12	51939892	51940761	TRI60_g1922.t1	TRI60
scaffold_12	32926903	32955559	UBP38_g1833.t1	USP38
scaffold_12	12981232	13024789	UBP53_g1760.t1	USP53
scaffold_12	12981166	13024789	UBP53_g1760.t2	USP53
scaffold_12	32926370	32956192	MSTRG.1990.1	USP38
scaffold_12	32939961	32956192	MSTRG.1990.3	USP38
scaffold_12	12959757	13025363	MSTRG.1897.1	USP53
scaffold_12	73415059	73437494	VATB2_g2056.t1	ATP6V1B2
scaffold_12	71302051	71324347	VINEX_g2038.t1	SORBS3
scaffold_12	71333970	71414055	VINEX_g2038.t2	SORBS3
scaffold_12	28710645	28780971	XCT_g1811.t1	SLC7A11
scaffold_12	71820922	71829661	MSTRG.2254.1	XPO7
scaffold_12	71847032	71857338	MSTRG.2255.3	XPO7
scaffold_12	71826162	71918027	XPO7_g2051.t1	XPO7
scaffold_12	70071318	70071548	Z324B_g2023.t1	Z324B

scaffold_12	29484654	29513672	MSTRG.1966.1	ZC3HAV1
scaffold_12	29484654	29584450	MSTRG.1966.2	ZC3HAV1
scaffold_12	29484654	29584450	MSTRG.1966.3	ZC3HAV1
scaffold_12	7498364	7499384	MSTRG.1867.1	ZGRF1
scaffold_12	7449243	7487906	ZGRF1_g1741.t1	ZGRF1
scaffold_12	31352084	31367381	ZN330_g1830.t1	ZNF330
scaffold_12	65556737	65567992	ZN395_g1989.t1	ZNF395
scaffold_12	34763922	34934025	ZN827_g1843.t1	ZNF827
scaffold_12	31350059	31367381	MSTRG.1989.1	ZNF330
scaffold_12	47121114	47125979	MSTRG.2089.1	ZNF343
scaffold_12	65530985	65563446	MSTRG.2176.1	ZNF395
scaffold_12	65531128	65571310	MSTRG.2176.2	ZNF395
scaffold_12	45922983	45925166	MSTRG.2071.1	ZNF570
scaffold_12	34760804	34934025	MSTRG.2014.1	ZNF827
scaffold_12	34760923	34934025	MSTRG.2014.2	ZNF827
scaffold_13	43271216	43288565	2A5D_g2653.t1	PPP2R5D
scaffold_13	43270988	43288565	2A5D_g2653.t2	PPP2R5D
scaffold_13	44375652	44383126	MSTRG.2809.1	AARS2
scaffold_13	44375652	44388397	MSTRG.2809.2	AARS2
scaffold_13	43617007	43636377	MSTRG.2784.1	ABCC10
scaffold_13	43617298	43618738	MSTRG.2784.3	ABCC10
scaffold_13	43628292	43630580	MSTRG.2784.4	ABCC10
scaffold_13	31411727	31427333	MSTRG.2574.1	ABCF1
scaffold_13	32762960	32776126	ABHGA_g2454.t1	ABHD16A
scaffold_13	25257203	25262204	ABT1_g2252.t1	ABT1
scaffold_13	22671334	22689567	ACO13_g2188.t1	ACOT13
scaffold_13	7238678	7238898	MSTRG.2315.1	ACOD1
scaffold_13	31184052	31185562	MSTRG.2569.1	ACVR1B
scaffold_13	41758813	41764475	MSTRG.2740.2	ADCY10
scaffold_13	41723414	41764475	ADCYA_g2618.t1	ADCY10
scaffold_13	33138280	33146207	MSTRG.2644.1	AGPAT1
scaffold_13	33138509	33144052	MSTRG.2644.2	AGPAT1
scaffold_13	62189366	62192064	AGRB3_g2779.t1	ADGRB3
scaffold_13	62453567	62846146	AGRB3_g2780.t1	ADGRB3
scaffold_13	47419124	47429694	AGRF4_g2712.t1	ADGRF4
scaffold_13	22510919	22543664	MSTRG.2402.1	ALDH5A1
scaffold_13	58279929	58280202	MSTRG.2889.1	ANKAR
scaffold_13	36106417	36288688	MSTRG.2689.1	ANKS1A
scaffold_13	3014152	3023995	MSTRG.2289.1	AOC1
scaffold_13	3015728	3023995	MSTRG.2289.2	AOC1
scaffold_13	3015794	3023995	MSTRG.2289.3	AOC1
scaffold_13	10032650	10046986	AP2A_g2120.t1	TFAP2A
scaffold_13	32735503	32737897	APOM_g2448.t1	APOM
scaffold_13	32733907	32738502	MSTRG.2605.1	APOM
scaffold_13	32733984	32737897	MSTRG.2605.2	APOM

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scaffold_13	31455618	31469303	ATAT_g2411.t1	ATAT1
scaffold_13	31455618	31469303	MSTRG.2583.2	ATAT1
scaffold_13	31455618	31469303	MSTRG.2583.3	ATAT1
scaffold_13	31455630	31469303	MSTRG.2583.4	ATAT1
scaffold_13	33094773	33100277	MSTRG.2636.1	ATF6B
scaffold_13	33095121	33109343	MSTRG.2636.2	ATF6B
scaffold_13	32648103	32648366	MSTRG.2601.1	ATP6V1G2
scaffold_13	15430334	15447817	ATX1_g2153.t1	ATXN1
scaffold_13	15427823	15447817	ATX1_g2153.t2	ATXN1
scaffold_13	15430848	15447817	ATX1_g2153.t3	ATXN1
scaffold_13	15430334	15813381	MSTRG.2364.4	ATXN1
scaffold_13	15813478	15823401	MSTRG.2367.1	ATXN1
scaffold_13	64071086	64123620	B3GA2_g2788.t1	B3GAT2
scaffold_13	34746224	34747378	B3GT4_g2516.t1	B3GALT4
scaffold_13	55652954	55665252	BAG2_g2765.t1	BAG2
scaffold_13	32721901	32732363	BAG6_g2447.t1	BAG6
scaffold_13	32721113	32733206	MSTRG.2604.1	BAG6
scaffold_13	32721774	32733206	MSTRG.2604.2	BAG6
scaffold_13	32721774	32733206	MSTRG.2604.3	BAG6
scaffold_13	32721774	32732936	MSTRG.2604.4	BAG6
scaffold_13	34966175	34972841	MSTRG.2673.1	BAK1
scaffold_13	2027403	2028329	BCCIP_g2070.t1	BCCIP
scaffold_13	55458892	55488087	BEND6_g2762.t1	BEND6
scaffold_13	43132254	43200373	MSTRG.2760.1	BICRAL
scaffold_13	43167502	43198525	BICRL_g2646.t1	BICRAL
scaffold_13	7816075	7860483	BL1S5_g2116.t1	BLOC1S5
scaffold_13	36036198	36093376	URFB1_g2544.t1	BLTP3A
scaffold_13	54373118	54481478	BMP5_g2757.t2	BMP5
scaffold_13	37384876	37395313	BNIP5_g2569.t1	BNIP5
scaffold_13	3024025	3054342	BPHL_g2081.t1	BPHL
scaffold_13	3024045	3054342	MSTRG.2290.2	BPHL
scaffold_13	34548168	34552191	BRD2_g2507.t1	BRD2
scaffold_13	34552192	34559896	BRD2_g2507.t2	BRD2
scaffold_13	34546830	34548083	MSTRG.2651.1	BRD2
scaffold_13	34547767	34559896	MSTRG.2652.1	BRD2
scaffold_13	34547839	34559896	MSTRG.2652.2	BRD2
scaffold_13	34548168	34559896	MSTRG.2652.3	BRD2
scaffold_13	34548168	34559896	MSTRG.2652.4	BRD2
scaffold_13	34550233	34559896	MSTRG.2652.6	BRD2
scaffold_13	34550247	34559896	MSTRG.2652.7	BRD2
scaffold_13	37275090	37306073	BRPF3_g2567.t1	BRPF3
scaffold_13	37271919	37306073	MSTRG.2702.1	BRPF3
scaffold_13	33708249	33708635	BT1A1_g2494.t1	BTN1A1
scaffold_13	24481917	24489728	BT3A3_g2245.t1	BTN3A3

scaffold_13	39013671	39409141	BTBD9_g2595.t1	BTBD9
scaffold_13	33218397	33254403	BTNL1_g2491.t1	BTN1A1
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scaffold_13	42431001	42442304	MSTRG.2749.2	BYSL
scaffold_13	42431044	42440412	BYST_g2632.t1	BYSL
scaffold_13	35571797	35574743	MSTRG.2677.1	C3ORF18
scaffold_13	35572189	35573305	SIM29_g2537.t1	C3ORF18
scaffold_13	31469375	31473866	MSTRG.2584.1	C6ORF136
scaffold_13	48865470	48871817	MSTRG.2831.2	MRPS18B
scaffold_13	48864991	48871817	MSTRG.2831.1	C6ORF141
scaffold_13	32793035	32794910	MSTRG.2610.2	MPIG6B
scaffold_13	22692135	22707694	MSTRG.2406.1	C6ORF62
scaffold_13	37851611	37888089	MSTRG.2709.1	C6ORF89
scaffold_13	37851611	37888089	MSTRG.2709.2	C6ORF89
scaffold_13	37851621	37888089	MSTRG.2709.3	C6ORF89
scaffold_13	30899213	30920852	MSTRG.2556.3	C8ORF89
scaffold_13	38883163	38884717	MSTRG.2721.1	CA5A
scaffold_13	7172021	7200343	CAGE1_g2110.t1	CAGE1
scaffold_13	16316351	16465218	CAP2_g2160.t1	CAP2
scaffold_13	23289685	23611614	CARL1_g2195.t1	CARMIL1
scaffold_13	10778373	10823388	CASL_g2131.t1	NEDD9
scaffold_13	7247393	7259027	MSTRG.2318.1	CBY3
scaffold_13	7247393	7259027	MSTRG.2318.2	CBY3
scaffold_13	7247418	7259027	MSTRG.2318.3	CBY3
scaffold_13	7248055	7259027	MSTRG.2318.4	CBY3
scaffold_13	38372499	38387593	CC167_g2590.t1	CCDC167
scaffold_13	38371986	38387593	MSTRG.2717.1	CCDC167
scaffold_13	38372379	38374432	MSTRG.2717.2	CCDC167
scaffold_13	31843424	31855893	MSTRG.2587.1	CCHCR1
scaffold_13	31843424	31855893	MSTRG.2587.2	CCHCR1
scaffold_13	31849094	31855893	MSTRG.2587.4	CCHCR1
scaffold_13	31854284	31855893	MSTRG.2587.5	CCHCR1
scaffold_13	42442800	42448607	CCND3_g2633.t1	CCND3
scaffold_13	42442726	42524741	MSTRG.2750.1	CCND3
scaffold_13	47201700	47342650	CD2AP_g2710.t1	CD2AP
scaffold_13	47201300	47390730	MSTRG.2821.1	CD2AP
scaffold_13	47201313	47409761	MSTRG.2821.2	CD2AP
scaffold_13	13476091	13509536	CD83_g2146.t1	CD83
scaffold_13	13492017	13509536	MSTRG.2353.2	CD83
scaffold_13	44441747	44482916	CDC5L_g2691.t1	CDC5L
scaffold_13	44483691	44483937	MSTRG.2808.1	CDC5L
scaffold_13	19019701	19667790	MSTRG.2388.2	CDKAL1
scaffold_13	19019701	19310634	MSTRG.2388.3	CDKAL1
scaffold_13	19019701	19432212	MSTRG.2388.4	CDKAL1
scaffold_13	19019702	19436109	MSTRG.2388.5	CDKAL1

scaffold_13	19019702	19486572	MSTRG.2388.6	CDKAL1
scaffold_13	37669328	37676831	MSTRG.2707.1	CDKN1A
scaffold_13	37674093	37674709	CDN1A_g2575.t1	CDKN1A
scaffold_13	4665662	4849546	CDYL_g2094.t1	CDYL
scaffold_13	4669057	4850881	MSTRG.2298.2	CDYL
scaffold_13	4830921	4836498	MSTRG.2298.3	CDYL
scaffold_13	4830921	4849546	MSTRG.2298.4	CDYL
scaffold_13	48814181	48827227	CENPQ_g2718.t1	CENPQ
scaffold_13	43505859	43506077	MSTRG.2779.1	CERS2
scaffold_13	32738640	32739530	CF047_g2449.t1	C6ORF47
scaffold_13	22694058	22706696	CF062_g2189.t1	C6ORF62
scaffold_13	37862008	37888089	CF089_g2580.t1	C6ORF89
scaffold_13	42567535	42599060	CF132_g2635.t1	C6ORF132
scaffold_13	31469696	31473866	CF136_g2412.t1	C6ORF136
scaffold_13	48865666	48866395	CF141_g2720.t1	C6ORF141
scaffold_13	43215010	43215249	CF226_g2648.t1	C6ORF226
scaffold_13	32968868	32971911	CFAB_g2470.t1	CFB
scaffold_13	32972225	32973345	CFAB_g2471.t1	CFB
scaffold_13	52003035	52034606	CILK1_g2743.t1	CILK1
scaffold_13	32799580	32804562	CLIC1_g2459.t1	CLIC1
scaffold_13	45793965	45893432	CLIC5_g2694.t1	CLIC5
scaffold_13	23040034	23141120	CMAH_g2194.t1	CMAHP
scaffold_13	38309716	38370417	CMTR1_g2589.t2	CMTR1
scaffold_13	38307641	38370417	MSTRG.2718.1	CMTR1
scaffold_13	38307643	38370417	MSTRG.2718.2	CMTR1
scaffold_13	38360487	38370417	MSTRG.2718.4	CMTR1
scaffold_13	38364178	38370417	MSTRG.2718.5	CMTR1
scaffold_13	43236298	43244145	CNPY3_g2650.t1	CNPY3
scaffold_13	43236298	43244145	MSTRG.2763.2	CNPY3
scaffold_13	54702500	54815887	MSTRG.2860.8	CNTNAP4
scaffold_13	33018851	33032964	CO4A_g2480.t1	C4A
scaffold_13	36090200	36090920	MSTRG.2686.1	COL1A2
scaffold_13	54635111	54815887	MSTRG.2860.5	COL21A1
scaffold_13	54638207	54694954	COLA1_g2758.t1	COL21A1
scaffold_13	46380774	46470457	CP39A_g2702.t1	CYP39A1
scaffold_13	43518759	43521318	CRIP3_g2665.t1	CRIP3
scaffold_13	43518439	43521318	MSTRG.2783.1	CRIP3
scaffold_13	43518440	43521318	MSTRG.2783.2	CRIP3
scaffold_13	43518440	43521318	MSTRG.2783.3	CRIP3
scaffold_13	43518441	43521318	MSTRG.2783.4	CRIP3
scaffold_13	32745585	32750021	CSK2B_g2451.t1	CSNK2B
scaffold_13	32740788	32744593	MSTRG.2607.1	CSNK2B
scaffold_13	32744855	32751755	MSTRG.2608.1	CSNK2B
scaffold_13	32901397	32913686	CTL4_g2466.t1	SLC44A4
scaffold_13	43307657	43321016	CUL7_g2657.t1	CUL7

scaffold_13	43322597	43326547	CUL7_g2657.t2	CUL7
scaffold_13	43306739	43322179	MSTRG.2773.1	CUL7
scaffold_13	43307624	43313260	MSTRG.2773.2	CUL7
scaffold_13	43412402	43449162	CUL9_g2661.t1	CUL9
scaffold_13	43412521	43449162	MSTRG.2781.2	CUL9
scaffold_13	43412521	43434795	MSTRG.2781.3	CUL9
scaffold_13	43412521	43434795	MSTRG.2781.4	CUL9
scaffold_13	34852907	34853944	CUTA_g2525.t1	CUTA
scaffold_13	34852877	34854463	MSTRG.2670.1	CUTA
scaffold_13	34852881	34854463	MSTRG.2670.2	CUTA
scaffold_13	40560847	40601961	DAAM2_g2605.t1	DAAM2
scaffold_13	40500561	40604243	MSTRG.2731.1	DAAM2
scaffold_13	40500561	40604243	MSTRG.2731.2	DAAM2
scaffold_13	40500596	40604243	MSTRG.2731.3	DAAM2
scaffold_13	34780654	34783864	DAXX_g2522.t1	DAXX
scaffold_13	34780503	34784796	MSTRG.2659.1	DAXX
scaffold_13	22225116	22385790	DCDC2_g2182.t1	DCDC2
scaffold_13	32795937	32797974	DDAH2_g2458.t1	DDAH2
scaffold_13	32795492	32799062	MSTRG.2611.1	DDAH2
scaffold_13	32795752	32796928	MSTRG.2611.2	DDAH2
scaffold_13	31637993	31651916	DDR1_g2421.t1	DDR1
scaffold_13	31637196	31651916	MSTRG.2582.1	DDR1
scaffold_13	31637779	31651916	MSTRG.2582.2	DDR1
scaffold_13	32632477	32644264	MSTRG.2599.1	DDX39B
scaffold_13	32632477	32644264	MSTRG.2599.2	DDX39B
scaffold_13	36468968	36488677	DEFI6_g2550.t1	DEF6
scaffold_13	16984529	17014132	DEK_g2167.t1	DEK
scaffold_13	16982818	17014715	MSTRG.2379.1	DEK
scaffold_13	7326953	7367716	DESP_g2112.t1	DSP
scaffold_13	34676174	34678317	DHB8_g2512.t1	HSD17B8
scaffold_13	31473937	31488440	DHX16_g2414.t1	DHX16
scaffold_13	43636498	43640341	DLK2_g2668.t1	DLK2
scaffold_13	43449735	43452133	DNPH1_g2662.t1	DNPH1
scaffold_13	44357510	44363868	DRC5_g2688.t2	TCTE1
scaffold_13	7326309	7367716	MSTRG.2322.1	DSP
scaffold_13	55006228	55438259	MSTRG.2870.1	DST
scaffold_13	55006279	55438259	MSTRG.2870.3	DST
scaffold_13	55006279	55215957	MSTRG.2870.4	DST
scaffold_13	55006279	55086063	MSTRG.2870.5	DST
scaffold_13	55122901	55150681	MSTRG.2870.8	DST
scaffold_13	55150682	55151859	MSTRG.2870.9	DST
scaffold_13	14735286	14844988	DTBP1_g2149.t1	DTNBP1
scaffold_13	14734650	14739628	MSTRG.2357.1	DTNBP1
scaffold_13	166123	218154	MSTRG.2263.1	DUSP22
scaffold_13	32633166	32642898	DX39B_g2439.t1	DDX39B

scaffold_13	33008633	33010427	DXO_g2478.t1	DXO
scaffold_13	33008583	33010918	MSTRG.2631.1	DXO
scaffold_13	39491685	39664464	DYH8_g2597.t1	DNAH8
scaffold_13	39664635	39784796	DYH8_g2597.t2	DNAH8
scaffold_13	55007169	55171071	DYST_g2760.t1	DST
scaffold_13	18911430	18983621	E2F3_g2174.t1	E2F3
scaffold_13	18910035	18985375	MSTRG.2384.1	E2F3
scaffold_13	18911225	18985375	MSTRG.2384.2	E2F3
scaffold_13	18970951	18985375	MSTRG.2384.4	E2F3
scaffold_13	4013476	4035192	CF201_g2092.t1	ECI2
scaffold_13	11804090	11809432	EDN1_g2136.t1	EDN1
scaffold_13	7872807	7894772	MSTRG.2328.1	EEF1E1
scaffold_13	51447526	51509197	EFHC1_g2735.t1	EFHC1
scaffold_13	32914512	32928036	EHMT2_g2467.t1	EHMT2
scaffold_13	32914256	32927319	MSTRG.2623.1	EHMT2
scaffold_13	27650482	27665276	MSTRG.2533.1	EIF4E3
scaffold_13	52195243	52264148	MSTRG.2852.1	ELOVL5
scaffold_13	45996971	46003073	ENPP4_g2697.t1	ENPP4
scaffold_13	46014549	46023272	ENPP5_g2698.t1	ENPP5
scaffold_13	30870655	30872391	MSTRG.2554.1	EQMHCB2
scaffold_13	31856046	31857046	ETAA1_g2429.t1	ETAA1
scaffold_13	15421182	15813381	MSTRG.2364.1	ETNPPL
scaffold_13	15421182	15813381	MSTRG.2364.2	ETNPPL
scaffold_13	37427773	37446471	ETV7_g2570.t1	ETV7
scaffold_13	47320515	47353803	MSTRG.2821.4	EVI5
scaffold_13	27070619	27083203	MSTRG.2504.1	EXO5
scaffold_13	362384	514041	EXOC2_g2062.t1	EXOC2
scaffold_13	360816	562191	MSTRG.2272.1	EXOC2
scaffold_13	58274136	58601519	EYS_g2775.t1	EYS
scaffold_13	7107970	7119192	MSTRG.2307.2	F
scaffold_13	63735601	63838708	F135A_g2785.t1	FAM135A
scaffold_13	3998298	4004977	F217A_g2091.t1	FAM217A
scaffold_13	53610773	53617897	FA83B_g2752.t1	FA83B
scaffold_13	63715957	63839053	MSTRG.2901.1	FAM135A
scaffold_13	63716047	63838708	MSTRG.2901.2	FAM135A
scaffold_13	63716815	63838708	MSTRG.2901.3	FAM135A
scaffold_13	33662593	33668379	MSTRG.2637.2	ABRAXAS2
scaffold_13	16494479	16496373	MSTRG.2369.1	FAM8A1
scaffold_13	36602297	36614129	FANCE_g2553.t1	FANCE
scaffold_13	36602297	36614129	FANCE_g2553.t2	FANCE
scaffold_13	36602103	36614129	MSTRG.2695.1	FANCE
scaffold_13	52056356	52056773	FBX9_g2745.t1	FBX9
scaffold_13	52056774	52079325	FBX9_g2745.t2	FBX9
scaffold_13	52056356	52079325	MSTRG.2848.1	FBXO9
scaffold_13	37955782	37976563	FGD2_g2583.t1	FGD2

scaffold_13	14799564	14799785	MSTRG.2360.1	FGD3
scaffold_13	36737063	36799950	FKBP5_g2556.t1	FKBP5
scaffold_13	36734509	36839881	MSTRG.2698.1	FKBP5
scaffold_13	36734509	36837302	MSTRG.2698.2	FKBP5
scaffold_13	36734509	36839881	MSTRG.2698.3	FKBP5
scaffold_13	33109919	33110968	FKBPL_g2483.t1	FKBPL
scaffold_13	31529669	31539106	FLOT1_g2419.t1	FLOT1
scaffold_13	31529081	31541344	MSTRG.2580.1	FLOT1
scaffold_13	31529081	31540786	MSTRG.2580.2	FLOT1
scaffold_13	1507275	1508930	FOXC1_g2067.t1	FOXC1
scaffold_13	1509740	1509948	MSTRG.2271.1	FOXC1
scaffold_13	42118648	42152080	FOXP4_g2624.t1	FOXP4
scaffold_13	42118480	42152080	FOXP4_g2624.t2	FOXP4
scaffold_13	42100554	42152080	MSTRG.2742.1	FOXP4
scaffold_13	42100600	42152080	MSTRG.2742.2	FOXP4
scaffold_13	42118480	42152080	MSTRG.2742.3	FOXP4
scaffold_13	42134750	42152080	MSTRG.2742.6	FOXP4
scaffold_13	1223110	1224333	FOXQ1_g2065.t1	FOXQ1
scaffold_13	42304925	42310097	FRS3_g2627.t1	FRS3
scaffold_13	32791973	32794910	G6B_g2457.t1	G6B
scaffold_13	29996311	30023607	MSTRG.2544.1	GABBR1
scaffold_13	29996315	30024226	MSTRG.2544.2	GABBR1
scaffold_13	30003159	30020966	MSTRG.2544.4	GABBR1
scaffold_13	29996324	30023607	GABR1_g2388.t1	GABBR1
scaffold_13	52374663	52420174	MSTRG.2849.1	GCLC
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scaffold_13	22754612	22769474	GEMI_g2190.t1	GEMI
scaffold_13	12793776	12900964	GFOD1_g2140.t1	GFOD1
scaffold_13	12790989	12791203	MSTRG.2345.1	GFOD1
scaffold_13	2725966	2743233	GLGB_g2075.t1	GLGB
scaffold_13	1520993	2138579	GMDS_g2068.t1	GMDS
scaffold_13	22759853	22769474	MSTRG.2407.2	GMNN
scaffold_13	15378177	15420034	GMPR1_g2152.t1	GMPR
scaffold_13	31389225	31398090	GNL1_g2406.t1	GNL1
scaffold_13	31387511	31398969	MSTRG.2572.1	GNL1
scaffold_13	31387511	31398310	MSTRG.2572.2	GNL1
scaffold_13	31398414	31411098	MSTRG.2573.1	GNL1
scaffold_13	43252344	43254998	GNMT_g2651.t1	GNMT
scaffold_13	43251007	43267146	MSTRG.2765.1	GNMT
scaffold_13	32741582	32743261	GPAN1_g2450.t1	GPANK1
scaffold_13	51802138	51811978	GSTA1_g2739.t2	GSTA1
scaffold_13	51894824	51903209	GSTA1_g2740.t1	GSTA1
scaffold_13	51801884	51817802	MSTRG.2840.1	GSTA1
scaffold_13	51893660	51909780	MSTRG.2843.1	GSTA1
scaffold_13	51944834	51961352	GSTA4_g2741.t1	GSTA4

scaffold_13	51979896	51995184	GSTA4_g2742.t1	GSTA4
scaffold_13	51978876	51996232	MSTRG.2844.1	GSTA4
scaffold_13	31656900	31662085	DDR1_g2421.t2	GTF2H4
scaffold_13	31656284	31673688	MSTRG.2586.1	GTF2H4
scaffold_13	43778839	43785611	GTPB2_g2675.t1	GTPB2
scaffold_13	43777996	43785611	MSTRG.2798.3	GTPBP2
scaffold_13	43773944	43782829	MSTRG.2798.1	GTPBP2
scaffold_13	43777278	43785611	MSTRG.2798.2	GTPBP2
scaffold_13	15791619	15812490	GTSF1_g2155.t1	GTSF1
scaffold_13	14754676	14844988	MSTRG.2357.3	GYPA
scaffold_13	24056729	24065622	MSTRG.2427.1	H1-2
scaffold_13	26860303	26861063	MSTRG.2497.1	H1-5
scaffold_13	24016556	24017209	H11_g2206.t1	H11
scaffold_13	24057713	24058354	H13_g2215.t1	HM13
scaffold_13	24188736	24189359	H13_g2225.t1	HM13
scaffold_13	24217002	24217667	H13_g2235.t1	HM13
scaffold_13	24148538	24149197	H14_g2221.t1	H1-4
scaffold_13	24099710	24100465	H1T_g2218.t1	H1-6
scaffold_13	24047744	24048136	H2A1_g2213.t1	H2AC11
scaffold_13	25936662	25937054	H2A1_g2260.t1	H2AC11
scaffold_13	26839084	26839476	H2A1_g2283.t1	H2AC11
scaffold_13	26858755	26859851	H2A1_g2286.t1	H2AC11
scaffold_13	26858755	26859147	H2A1_g2286.t2	H2AC11
scaffold_13	26876829	26877221	H2A1_g2290.t1	H2AC11
scaffold_13	23733239	23733634	H2A1A_g2200.t1	H2A1A
scaffold_13	24121526	24121918	H2A1C_g2220.t1	H2A1C
scaffold_13	24191306	24191698	H2A1D_g2227.t1	H2AC7
scaffold_13	25949521	25949790	H2A1D_g2264.t1	H2AC7
scaffold_13	24196886	24197278	H2A1E_g2230.t1	H2A1E
scaffold_13	24258929	24259321	H2A1E_g2241.t1	H2A1E
scaffold_13	26818623	26819009	H2A1H_g2279.t1	H2A1H
scaffold_13	24036038	24036430	H2A1P_g2211.t1	H2A1P
scaffold_13	26813399	26813812	MSTRG.2485.1	H2AC11
scaffold_13	24216270	24216662	H2A1E_g2234.t1	H2AC4
scaffold_13	24176587	24177643	H2B1_g2223.t1	H2B1
scaffold_13	24196186	24196566	H2B1_g2229.t1	H2B1
scaffold_13	24241470	24241850	H2B1_g2239.t1	H2B1
scaffold_13	24241470	24242067	H2B1_g2239.t2	H2B1
scaffold_13	24259727	24260107	H2B1_g2242.t1	H2B1
scaffold_13	24259727	24260329	H2B1_g2242.t3	H2B1
scaffold_13	26812369	26813114	H2B1_g2276.t1	H2B1
scaffold_13	26812506	26813114	H2B1_g2276.t2	H2B1
scaffold_13	26877541	26877921	H2B1_g2291.t1	H2B1
scaffold_13	26877541	26878138	H2B1_g2291.t2	H2B1
scaffold_13	23722668	23723051	H2B1A_g2198.t1	H2B1A

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scaffold_13	24207819	24208199	H2B2E_g2232.t1	H2BC21
scaffold_13	24019841	24020251	H31_g2207.t1	H3C1
scaffold_13	24034637	24035047	H31_g2210.t1	H3C1
scaffold_13	24049135	24049545	H31_g2214.t1	H3C1
scaffold_13	24049099	24049545	H31_g2214.t2	H3C1
scaffold_13	24189562	24190071	H31_g2226.t1	H3C1
scaffold_13	24209461	24209871	H31_g2233.t1	H3C1
scaffold_13	24240034	24240444	H31_g2238.t1	H3C1
scaffold_13	25937250	25937817	H31_g2261.t1	H3C1
scaffold_13	26816555	26816965	H31_g2278.t1	H3C1
scaffold_13	26864455	26864867	H31_g2287.t1	H3C1
scaffold_13	26865712	26866023	H31_g2288.t1	H3C1
scaffold_13	26864455	26866023	H31_g2288.t2	H3C1
scaffold_13	26875304	26875897	H31_g2289.t1	H3C1
scaffold_13	24222380	24229681	MSTRG.2453.1	H3C1
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scaffold_13	26812034	26812330	H4_g2275.t1	H4C1
scaffold_13	26824517	26824828	H4_g2281.t1	H4C1
scaffold_13	26832143	26832454	H4_g2282.t1	H4C1
scaffold_13	24021092	24021403	H4_g2208.t1	H4C6
scaffold_13	24029761	24030072	H4_g2209.t1	H4C6
scaffold_13	24096528	24096839	H4_g2217.t1	H4C6
scaffold_13	24184235	24184546	H4_g2224.t1	H4C6
scaffold_13	24204038	24204349	H4_g2231.t1	H4C6
scaffold_13	24222404	24222735	H4_g2236.t1	H4C6
scaffold_13	28963862	28964346	HA1A_g2353.t1	HLA-A
scaffold_13	33892836	33898246	HA2D_g2498.t1	HA2D
scaffold_13	33813934	33822622	HB2D_g2497.t1	HB2D
scaffold_13	34372380	34384159	HB2D_g2501.t1	HB2D
scaffold_13	20753342	20754031	HDGF_g2180.t1	HDGF
scaffold_13	24084906	24090700	MSTRG.2430.4	HFE
scaffold_13	24081571	24090700	MSTRG.2430.1	HFE
scaffold_13	24081720	24086781	MSTRG.2430.2	HFE
scaffold_13	24153071	24153331	MSTRG.2436.1	HIST1H2BM
scaffold_13	11559323	11700698	MSTRG.2342.2	HIVEP1
scaffold_13	11559318	11700698	MSTRG.2342.1	HIVEP1
scaffold_13	31116793	31127576	1A01_g2400.t1	HLA-A
scaffold_13	32044502	32047445	1A01_g2433.t1	HLA-A
scaffold_13	31027261	31028378	MSTRG.2553.4	HLA-A
scaffold_13	30871880	30874400	MSTRG.2555.1	HLA-A
scaffold_13	32101344	32308346	MSTRG.2593.1	HLA-A

scaffold_13	32305253	32307483	1A01_g2435.t1	HLA-B
scaffold_13	32307638	32308346	1C03_g2436.t1	HLA-B
scaffold_13	31029043	31029960	MSTRG.2557.1	HLA-B
scaffold_13	32002658	32004913	MSTRG.2590.2	HLA-B
scaffold_13	32432918	32604494	MSTRG.2597.4	HLA-B
scaffold_13	28895658	28898919	MSTRG.2543.1	HLA-B
scaffold_13	28896261	28964736	MSTRG.2543.3	HLA-B
scaffold_13	30866621	31028378	MSTRG.2553.1	HLA-B
scaffold_13	30907881	30981046	MSTRG.2556.4	HLA-B
scaffold_13	32001517	32004913	MSTRG.2590.1	HLA-B
scaffold_13	32303758	32606433	MSTRG.2597.1	HLA-B
scaffold_13	32432890	32605654	MSTRG.2597.3	HLA-B
scaffold_13	32433676	32436478	MSTRG.2597.5	HLA-B
scaffold_13	32604506	32605654	MSTRG.2597.8	HLA-B
scaffold_13	30276184	30276500	MSTRG.2549.1	HLA-C
scaffold_13	33892795	33898702	MSTRG.2641.1	HLA-DQA2
scaffold_13	34021279	34026756	MSTRG.2642.1	HLA-DQA2
scaffold_13	33812900	33822622	MSTRG.2638.1	HLA-DRB1
scaffold_13	31148874	31152172	HLAA_g2401.t1	HLA-A
scaffold_13	35561787	35571590	MSTRG.2676.1	HMGA1
scaffold_13	35561787	35571590	MSTRG.2676.2	HMGA1
scaffold_13	25209585	25210622	HMGN4_g2251.t1	HMGN4
scaffold_13	25202895	25211255	MSTRG.2461.2	HMGN4
scaffold_13	32857504	32859429	HS71L_g2464.t1	HS71L
scaffold_13	44308972	44313610	HS90B_g2684.t1	HSP90AB1
scaffold_13	44327670	44332730	HS90B_g2684.t2	HSP90AB1
scaffold_13	34672383	34678317	MSTRG.2654.1	HSD17B8
scaffold_13	34672383	34678317	MSTRG.2654.2	HSD17B8
scaffold_13	32871635	32874529	MSTRG.2615.1	HSPAIA
scaffold_13	32861106	32863512	MSTRG.2617.1	HSPAIA
scaffold_13	26714125	26725846	I18RA_g2274.t1	IL18RAP
scaffold_13	18360237	18361118	ID4_g2170.t1	ID4
scaffold_13	31540787	31541344	IEX1_g2420.t1	IER3
scaffold_13	44337577	44343722	IKBE_g2686.t1	NFKBIE
scaffold_13	32649064	32656246	IKBL1_g2441.t1	NFKBIL1
scaffold_13	25975152	25976966	MSTRG.2472.1	IL1F10
scaffold_13	2679876	2686423	ILEU_g2074.t1	SERPINB1
scaffold_13	35878242	35972889	ILRUN_g2542.t1	ILRUN
scaffold_13	59654196	59654510	IMP4_g2778.t1	IMP4
scaffold_13	35086790	35098535	IP6K3_g2532.t1	IP6K3
scaffold_13	35098625	35108277	ISPD_g2533.t1	CRPPA
scaffold_13	34997214	35061802	ITPR3_g2530.t1	ITPR3
scaffold_13	14475199	14734212	JARD2_g2148.t1	JARID2
scaffold_13	14477383	14734212	MSTRG.2356.2	JARID2
scaffold_13	22550227	22610464	K0319_g2186.t1	KIAA0319

scaffold_13	55511410	55515108	K1586_g2763.t1	KIAA1586
scaffold_13	37514106	37528919	KCD20_g2572.t1	KCTD20
scaffold_13	2922752	2922959	MSTRG.2283.1	KCNH5
scaffold_13	39937150	39972748	KCNK5_g2600.t1	KCNK5
scaffold_13	16935730	16980323	KDM1B_g2166.t1	KDM1B
scaffold_13	16982026	16982233	MSTRG.2378.1	KDM1B
scaffold_13	56687232	57202459	KHDR2_g2769.t1	KHDR2
scaffold_13	16601184	16794544	KI13A_g2163.t1	KI13A
scaffold_13	55506616	55515108	MSTRG.2864.1	KIAA1586
scaffold_13	16599673	16794544	MSTRG.2372.1	KIF13A
scaffold_13	16599678	16794544	MSTRG.2372.2	KIF13A
scaffold_13	34832606	34846259	KIFC1_g2523.t1	KIFC1
scaffold_13	43326612	43338274	MSTRG.2775.1	KLC4
scaffold_13	43326632	43338274	MSTRG.2775.2	KLC4
scaffold_13	43293345	43297013	KLDC3_g2655.t1	KLHDC3
scaffold_13	43290904	43297566	MSTRG.2772.1	KLHDC3
scaffold_13	43290904	43297566	MSTRG.2772.2	KLHDC3
scaffold_13	47551043	47751010	MSTRG.2827.1	L3MBTL4
scaffold_13	35128843	35145478	LEMD2_g2534.t1	LEMD2
scaffold_13	35128729	35145478	MSTRG.2675.1	LEMD2
scaffold_13	57946085	57974591	LGSN_g2770.t1	LGSN
scaffold_13	36926139	36938105	LHPL5_g2562.t1	LHFPL5
scaffold_13	55006228	55354002	MSTRG.2870.2	LHX9
scaffold_13	55006290	55024161	MSTRG.2870.6	LHX9
scaffold_13	63064347	63176662	LMBD1_g2781.t1	LMBRD1
scaffold_13	31217260	31217555	MSTRG.2552.1	LOC100056231
scaffold_13	44484755	44484987	MSTRG.2812.1	LOC100629368
scaffold_13	24198182	24198552	MSTRG.2446.1	LOC101392920
scaffold_13	24198193	24209841	MSTRG.2447.1	LOC101392920
scaffold_13	32177181	32178296	MSTRG.2594.1	LOC101393291
scaffold_13	31030292	31031269	MSTRG.2558.1	LOC101395826
scaffold_13	30870109	31028378	MSTRG.2553.2	LOC101399194
scaffold_13	30870109	31028378	MSTRG.2553.3	LOC101399194
scaffold_13	32435274	32606433	MSTRG.2597.6	LOC101399194
scaffold_13	28961230	28964736	MSTRG.2543.4	LOC101407024
scaffold_13	24257323	24257733	H31_g2240.t1	LOC101407346
scaffold_13	24236160	24236471	H4_g2237.t1	LOC101407346
scaffold_13	24265723	24266034	H4_g2243.t1	LOC101407346
scaffold_13	43681105	43683657	LRC73_g2670.t1	LRC73
scaffold_13	26452222	26472362	LRC8E_g2272.t2	LRC8E
scaffold_13	41078372	41079775	LRFN2_g2609.t1	LRFN2
scaffold_13	52673982	52797920	MSTRG.2853.1	LRRC1
scaffold_13	23289213	23586870	MSTRG.2414.2	CARMIL1
scaffold_13	23289213	23611614	MSTRG.2414.1	LRRC16A
scaffold_13	23592448	23611614	MSTRG.2414.4	LRRC16A

scaffold_13	32850532	32855355	MSTRG.2620.1	LSM2
scaffold_13	32681398	32682772	LST1_g2445.t1	LST1
scaffold_13	59088820	59089230	MSTRG.2891.1	LTA
scaffold_13	27119200	27119451	MSTRG.2514.1	LUZP1
scaffold_13	32754235	32758297	LY65C_g2453.t1	LY6G5C
scaffold_13	5031802	5205917	LYRM4_g2099.t1	LYRM4
scaffold_13	5030351	5206535	MSTRG.2304.2	LYRM4
scaffold_13	5030351	5205910	MSTRG.2304.1	LYRM4
scaffold_13	32835371	32849775	MSTRG.2614.1	MAGEA13P
scaffold_13	43277965	43278212	MSTRG.2769.1	MALT1
scaffold_13	1526526	1526789	MAN1_g2069.t1	LEMD3
scaffold_13	37119591	37189615	MSTRG.2700.1	MAPK14
scaffold_13	342931	343166	MSTRG.2268.1	MAPK6
scaffold_13	18635499	18732725	MSTRG.2380.1	MBOAT1
scaffold_13	7875081	7894772	MCA3_g2117.t1	EEF1E1
scaffold_13	51299465	51316669	MCM3_g2731.t1	MCM3
scaffold_13	43791048	43794157	MD2BP_g2676.t1	MAD2L1BP
scaffold_13	31507507	31520641	MDC1_g2417.t1	MDC1
scaffold_13	31506046	31521194	MSTRG.2579.2	MDC1
scaffold_13	31507507	31513790	MSTRG.2579.3	MDC1
scaffold_13	31515771	31521747	MSTRG.2579.5	MDC1
scaffold_13	31506046	31521194	MSTRG.2579.1	MDC1
scaffold_13	42182887	42197094	MDFI_g2625.t1	MDFI
scaffold_13	43289268	43290180	MEA1_g2654.t1	MEA1
scaffold_13	43289217	43290731	MSTRG.2771.1	MEA1
scaffold_13	33135611	33138818	MSTRG.2643.1	MEGF8
scaffold_13	32268631	32283802	MICB_g2434.t1	MICB
scaffold_13	32276523	32279783	MSTRG.2595.2	MICB
scaffold_13	37206296	37214408	MK13_g2566.t1	MAPK13
scaffold_13	37120212	37189147	MK14_g2565.t1	MAPK14
scaffold_13	36587296	36599921	MKRN1_g2552.t1	MKRN1
scaffold_13	52879308	53114602	MLIP_g2750.t1	MLIP
scaffold_13	52879225	53114602	MSTRG.2855.1	MLIP
scaffold_13	52879308	53114602	MSTRG.2855.2	MLIP
scaffold_13	52994217	53114602	MSTRG.2855.4	MLIP
scaffold_13	52994217	53114602	MSTRG.2855.5	MLIP
scaffold_13	48770921	48809725	MSTRG.2830.1	MMUT
scaffold_13	48771095	48809725	MSTRG.2830.2	MMUT
scaffold_13	40605678	40639145	MOCS1_g2606.t1	MOCS1
scaffold_13	40604884	40639145	MSTRG.2732.1	MOCS1
scaffold_13	30043723	30054603	MOG_g2389.t1	MOG
scaffold_13	43617085	43636377	MRP7_g2667.t1	ABCC10
scaffold_13	44230415	44258243	CSCL2_g2681.t1	MRPL14
scaffold_13	44221432	44234649	MSTRG.2804.1	MRPL14
scaffold_13	43322576	43327099	MSTRG.2774.1	MRPL2

scaffold_13	31450635	31455100	MSTRG.2576.2	MRPS18B
scaffold_13	22428590	22451006	MRS2_g2183.t1	MRS2
scaffold_13	32808302	32824146	MSH5_g2460.t1	MSH5
scaffold_13	32807850	32826062	MSTRG.2613.1	MSH5
scaffold_13	32807870	32826062	MSTRG.2613.4	MSH5
scaffold_13	32807854	32826062	MSTRG.2613.2	MSH5
scaffold_13	32807854	32826062	MSTRG.2613.3	MSH5
scaffold_13	32810621	32820561	MSTRG.2613.6	MSH5
scaffold_13	37921369	37939837	MSTRG.2712.1	MTCH1
scaffold_13	37922185	37939837	MTCH1_g2582.t1	MTCH1
scaffold_13	54611659	54815887	MSTRG.2860.4	MTERF1
scaffold_13	48771295	48806098	MUTA_g2717.t1	MUTA
scaffold_13	15226857	15247328	MSTRG.2361.1	MYLIP
scaffold_13	15226996	15247328	MYLIP_g2150.t1	MYLIP
scaffold_13	2538791	2549269	MYLK4_g2072.t1	MYLK4
scaffold_13	32973377	32975349	CFAB_g2472.t1	NELFE
scaffold_13	32975396	32981446	NELFE_g2473.t1	NELFE
scaffold_13	32992308	32994870	NELFE_g2475.t1	NELFE
scaffold_13	32994901	32998166	NELFE_g2476.t1	NELFE
scaffold_13	32897087	32900959	MSTRG.2618.1	NEU1
scaffold_13	26726036	26726509	MSTRG.2480.1	NFAT5
scaffold_13	41688168	41722357	MSTRG.2734.1	NFYA
scaffold_13	41688173	41722357	MSTRG.2734.2	NFYA
scaffold_13	41694492	41716881	NFYA_g2617.t1	NFYA
scaffold_13	16901751	16902938	NHLC1_g2164.t1	NHLC1
scaffold_13	27567927	27569153	NKAPL_g2316.t1	NKAPL
scaffold_13	13040288	13045623	NOL7_g2143.t1	NOL7
scaffold_13	13040147	13045623	NOL7_g2143.t2	NOL7
scaffold_13	33164193	33185336	NOTC4_g2490.t2	NOTC4
scaffold_13	31523381	31528032	MSTRG.2578.1	NOTCH4
scaffold_13	28963862	28964736	1C04_g2354.t1	1C04_g2354.t1
scaffold_13	32603349	32606433	1C04_g2437.t1	1C04_g2437.t1
scaffold_13	24259727	24260329	H2B1_g2242.t2	H2B1_g2242.t2
scaffold_13	41287195	41287668	LOC000000086_g2610.t1	LOC000000086_g2610.t1
scaffold_13	570591	570816	MSTRG.2270.1	MSTRG.2270.1
scaffold_13	6245047	6245258	MSTRG.2303.1	MSTRG.2303.1
scaffold_13	5205963	5722620	MSTRG.2305.1	MSTRG.2305.1
scaffold_13	7261500	7261714	MSTRG.2319.1	MSTRG.2319.1
scaffold_13	10227570	10227800	MSTRG.2330.1	MSTRG.2330.1
scaffold_13	10261939	10262161	MSTRG.2332.1	MSTRG.2332.1
scaffold_13	12432549	12432764	MSTRG.2343.1	MSTRG.2343.1
scaffold_13	14143452	14143655	MSTRG.2354.1	MSTRG.2354.1
scaffold_13	15642977	15650916	MSTRG.2365.2	MSTRG.2365.2
scaffold_13	17651163	17651378	MSTRG.2381.1	MSTRG.2381.1
scaffold_13	20249318	20249550	MSTRG.2392.1	MSTRG.2392.1

scaffold_13	20007982	20009951	MSTRG.2394.1	MSTRG.2394.1
scaffold_13	20879334	20879564	MSTRG.2396.1	MSTRG.2396.1
scaffold_13	22335460	22428561	MSTRG.2397.2	MSTRG.2397.2
scaffold_13	22277186	22277391	MSTRG.2399.1	MSTRG.2399.1
scaffold_13	22428709	22452344	MSTRG.2401.2	MSTRG.2401.2
scaffold_13	23238220	23238433	MSTRG.2408.1	MSTRG.2408.1
scaffold_13	23136708	23136913	MSTRG.2410.1	MSTRG.2410.1
scaffold_13	26358366	26358575	MSTRG.2474.1	MSTRG.2474.1
scaffold_13	27140853	27141059	MSTRG.2518.1	MSTRG.2518.1
scaffold_13	27173993	27174249	MSTRG.2521.1	MSTRG.2521.1
scaffold_13	27680738	27696517	MSTRG.2535.2	MSTRG.2535.2
scaffold_13	28893568	28893945	MSTRG.2541.1	MSTRG.2541.1
scaffold_13	28895047	28895327	MSTRG.2542.1	MSTRG.2542.1
scaffold_13	30238382	30238587	MSTRG.2548.1	MSTRG.2548.1
scaffold_13	30870655	30872391	MSTRG.2554.2	MSTRG.2554.2
scaffold_13	30899213	30981046	MSTRG.2556.2	MSTRG.2556.2
scaffold_13	31032020	31032249	MSTRG.2559.1	MSTRG.2559.1
scaffold_13	31219292	31219759	MSTRG.2563.1	MSTRG.2563.1
scaffold_13	32296480	32298784	MSTRG.2596.1	MSTRG.2596.1
scaffold_13	33791012	33795742	MSTRG.2639.1	MSTRG.2639.1
scaffold_13	34717935	34736930	MSTRG.2656.2	MSTRG.2656.2
scaffold_13	35817604	35817814	MSTRG.2681.1	MSTRG.2681.1
scaffold_13	37492425	37528919	MSTRG.2704.2	MSTRG.2704.2
scaffold_13	39889280	39889499	MSTRG.2727.1	MSTRG.2727.1
scaffold_13	40218271	40218482	MSTRG.2729.1	MSTRG.2729.1
scaffold_13	43276616	43276832	MSTRG.2768.1	MSTRG.2768.1
scaffold_13	43425058	43425258	MSTRG.2782.1	MSTRG.2782.1
scaffold_13	44326106	44333060	MSTRG.2806.1	MSTRG.2806.1
scaffold_13	44492169	44492570	MSTRG.2811.1	MSTRG.2811.1
scaffold_13	47601405	47651824	MSTRG.2827.5	MSTRG.2827.5
scaffold_13	50137538	50137764	MSTRG.2829.1	MSTRG.2829.1
scaffold_13	52672750	52673345	MSTRG.2851.1	MSTRG.2851.1
scaffold_13	54816160	54824105	MSTRG.2858.1	MSTRG.2858.1
scaffold_13	54586640	54815887	MSTRG.2860.2	MSTRG.2860.2
scaffold_13	57189985	57190186	MSTRG.2876.1	MSTRG.2876.1
scaffold_13	58187277	58274130	MSTRG.2886.4	MSTRG.2886.4
scaffold_13	58166403	58166622	MSTRG.2887.1	MSTRG.2887.1
scaffold_13	58311176	58322811	MSTRG.2890.1	MSTRG.2890.1
scaffold_13	62597181	62597412	MSTRG.2899.1	MSTRG.2899.1
scaffold_13	63725607	63838708	MSTRG.2901.4	MSTRG.2901.4
scaffold_13	64417985	64469743	MSTRG.2911.1	MSTRG.2911.1
scaffold_13	65230467	65237179	MSTRG.2916.2	MSTRG.2916.2
scaffold_13	65230467	65237179	MSTRG.2916.3	MSTRG.2916.3
scaffold_13	13195954	13277110	RANB9_g2144.t2	RANB9_g2144.t2
scaffold_13	4920953	4924507	RGL2_g2096.t1	RGL2_g2096.t1

scaffold_13	352309	352614	MSTRG.2269.1	NOTHING
scaffold_13	2719033	2719254	MSTRG.2276.1	NOTHING
scaffold_13	2969765	2969981	MSTRG.2284.1	NOTHING
scaffold_13	4895753	4896076	MSTRG.2297.1	NOTHING
scaffold_13	4909858	4910079	MSTRG.2299.1	NOTHING
scaffold_13	5005303	5005506	MSTRG.2302.1	NOTHING
scaffold_13	5206193	5722620	MSTRG.2305.2	NOTHING
scaffold_13	7236951	7237330	MSTRG.2314.1	NOTHING
scaffold_13	7263410	7263641	MSTRG.2320.1	NOTHING
scaffold_13	7314364	7314581	MSTRG.2321.1	NOTHING
scaffold_13	7813629	7813934	MSTRG.2324.1	NOTHING
scaffold_13	7871875	7872083	MSTRG.2325.1	NOTHING
scaffold_13	11562220	11700698	MSTRG.2342.3	NOTHING
scaffold_13	13318162	13320352	MSTRG.2348.1	NOTHING
scaffold_13	13354652	13354875	MSTRG.2349.1	NOTHING
scaffold_13	12991052	13045623	MSTRG.2351.1	NOTHING
scaffold_13	13511024	13511242	MSTRG.2355.1	NOTHING
scaffold_13	14746053	14746264	MSTRG.2359.1	NOTHING
scaffold_13	15557506	15805835	MSTRG.2364.7	NOTHING
scaffold_13	15586380	15813381	MSTRG.2364.8	NOTHING
scaffold_13	15642856	15652165	MSTRG.2365.1	NOTHING
scaffold_13	15813471	15815006	MSTRG.2366.1	NOTHING
scaffold_13	18633445	18633675	MSTRG.2373.1	NOTHING
scaffold_13	18629278	18629510	MSTRG.2374.1	NOTHING
scaffold_13	16924934	16935627	MSTRG.2375.3	NOTHING
scaffold_13	19736286	19736487	MSTRG.2386.1	NOTHING
scaffold_13	19741955	19742161	MSTRG.2387.1	NOTHING
scaffold_13	19464746	19471007	MSTRG.2390.1	NOTHING
scaffold_13	19976294	19984157	MSTRG.2391.3	NOTHING
scaffold_13	22378397	22378626	MSTRG.2400.1	NOTHING
scaffold_13	23986252	23998977	MSTRG.2413.1	NOTHING
scaffold_13	24022258	24022484	MSTRG.2415.1	NOTHING
scaffold_13	24028364	24028654	MSTRG.2416.1	NOTHING
scaffold_13	24024434	24024663	MSTRG.2420.1	NOTHING
scaffold_13	25838549	25838779	MSTRG.2464.1	NOTHING
scaffold_13	25971495	25971742	MSTRG.2470.1	NOTHING
scaffold_13	25974210	25974463	MSTRG.2471.1	NOTHING
scaffold_13	26739660	26739909	MSTRG.2478.1	NOTHING
scaffold_13	26893234	26896671	MSTRG.2500.1	NOTHING
scaffold_13	26893234	26895801	MSTRG.2500.2	NOTHING
scaffold_13	26894170	26894494	MSTRG.2501.1	NOTHING
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scaffold_13	27083785	27083994	MSTRG.2505.1	NOTHING
scaffold_13	27090992	27091325	MSTRG.2507.1	NOTHING
scaffold_13	27111366	27111745	MSTRG.2510.1	NOTHING

scaffold_13	27112939	27113344	MSTRG.2511.1	NOTHING
scaffold_13	27115257	27115484	MSTRG.2512.1	NOTHING
scaffold_13	27118507	27118847	MSTRG.2513.1	NOTHING
scaffold_13	27123818	27124143	MSTRG.2516.1	NOTHING
scaffold_13	27160533	27160759	MSTRG.2519.1	NOTHING
scaffold_13	28356945	28357210	MSTRG.2538.1	NOTHING
scaffold_13	28891075	28891452	MSTRG.2540.1	NOTHING
scaffold_13	30148893	30149218	MSTRG.2546.1	NOTHING
scaffold_13	31114021	31114254	MSTRG.2551.1	NOTHING
scaffold_13	30898066	30907818	MSTRG.2556.1	NOTHING
scaffold_13	31224989	31225216	MSTRG.2560.1	NOTHING
scaffold_13	31241598	31243421	MSTRG.2561.1	NOTHING
scaffold_13	31251341	31251569	MSTRG.2562.1	NOTHING
scaffold_13	31149500	31151143	MSTRG.2565.2	NOTHING
scaffold_13	31152235	31168251	MSTRG.2566.1	NOTHING
scaffold_13	31156120	31156610	MSTRG.2567.1	NOTHING
scaffold_13	31178109	31183410	MSTRG.2568.1	NOTHING
scaffold_13	31973282	32047854	MSTRG.2589.2	NOTHING
scaffold_13	32878027	32880946	MSTRG.2616.1	NOTHING
scaffold_13	32895117	32895378	MSTRG.2619.1	NOTHING
scaffold_13	34560585	34560791	MSTRG.2648.1	NOTHING
scaffold_13	34562445	34562664	MSTRG.2649.1	NOTHING
scaffold_13	34565413	34565650	MSTRG.2650.1	NOTHING
scaffold_13	34834923	34835140	MSTRG.2661.1	NOTHING
scaffold_13	34837993	34838205	MSTRG.2662.1	NOTHING
scaffold_13	34751520	34751874	MSTRG.2665.1	NOTHING
scaffold_13	34885452	34885652	MSTRG.2672.1	NOTHING
scaffold_13	36942999	37016844	MSTRG.2699.1	NOTHING
scaffold_13	37492414	37528919	MSTRG.2704.1	NOTHING
scaffold_13	37920090	37920317	MSTRG.2710.1	NOTHING
scaffold_13	38186524	38225112	MSTRG.2715.2	NOTHING
scaffold_13	38825141	38838450	MSTRG.2720.1	NOTHING
scaffold_13	39236102	39240968	MSTRG.2724.1	NOTHING
scaffold_13	39935609	39936596	MSTRG.2728.1	NOTHING
scaffold_13	40735740	40736155	MSTRG.2738.1	NOTHING
scaffold_13	42080492	42100514	MSTRG.2741.1	NOTHING
scaffold_13	42403290	42403503	MSTRG.2744.1	NOTHING
scaffold_13	42380311	42380527	MSTRG.2746.1	NOTHING
scaffold_13	42414058	42430619	MSTRG.2747.1	NOTHING
scaffold_13	42646793	42647021	MSTRG.2753.1	NOTHING
scaffold_13	43217516	43217748	MSTRG.2764.1	NOTHING
scaffold_13	43795239	43795515	MSTRG.2789.1	NOTHING
scaffold_13	44052340	44063315	MSTRG.2794.1	NOTHING
scaffold_13	43728292	43740822	MSTRG.2796.3	NOTHING
scaffold_13	45989898	46003073	MSTRG.2815.1	NOTHING

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scaffold_13	47374521	47378121	MSTRG.2822.1	NOTHING
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scaffold_13	51999585	52053406	MSTRG.2845.1	NOTHING
scaffold_13	52150552	52150762	MSTRG.2847.1	NOTHING
scaffold_13	52670616	52670918	MSTRG.2850.1	NOTHING
scaffold_13	53333624	53334003	MSTRG.2854.1	NOTHING
scaffold_13	52887880	52903855	MSTRG.2856.1	NOTHING
scaffold_13	53823690	53823922	MSTRG.2857.1	NOTHING
scaffold_13	54521109	54586586	MSTRG.2859.1	NOTHING
scaffold_13	54586640	54815887	MSTRG.2860.1	NOTHING
scaffold_13	54659493	54663801	MSTRG.2861.1	NOTHING
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scaffold_13	57985227	57985468	MSTRG.2869.1	NOTHING
scaffold_13	56803605	56803818	MSTRG.2873.1	NOTHING
scaffold_13	56840080	56840286	MSTRG.2874.1	NOTHING
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scaffold_13	57991563	57992113	MSTRG.2877.1	NOTHING
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scaffold_13	57974961	57975188	MSTRG.2881.1	NOTHING
scaffold_13	55841703	55841917	MSTRG.2883.1	NOTHING
scaffold_13	55920084	55920763	MSTRG.2884.1	NOTHING
scaffold_13	55989554	55989763	MSTRG.2885.1	NOTHING
scaffold_13	62281849	62282059	MSTRG.2896.1	NOTHING
scaffold_13	62333804	62334012	MSTRG.2897.1	NOTHING
scaffold_13	64470742	64470995	MSTRG.2904.1	NOTHING
scaffold_13	64094812	64102426	MSTRG.2907.2	NOTHING
scaffold_13	64398116	64398344	MSTRG.2908.1	NOTHING
scaffold_13	64401378	64414075	MSTRG.2909.1	NOTHING
scaffold_13	64415858	64416115	MSTRG.2910.1	NOTHING
scaffold_13	65230464	65237179	MSTRG.2916.1	NOTHING
scaffold_13	31501312	31504270	MSTRG.2581.1	NRM
scaffold_13	31501935	31504270	NRM_g2416.t1	NRM
scaffold_13	43805741	43805991	MSTRG.2792.1	NSMCE3
scaffold_13	14614060	14734212	MSTRG.2356.3	NTRK3
scaffold_13	16500064	16569929	NU153_g2162.t1	NUP153
scaffold_13	35591044	35716487	MSTRG.2678.1	NUDT3
scaffold_13	35599491	35716487	NUDT3_g2538.t1	NUDT3

scaffold_13	35591078	35702163	MSTRG.2678.2	NUDT3
scaffold_13	47734588	47750473	MSTRG.2827.9	NUMB
scaffold_13	15835532	15856710	NWD1_g2157.t2	NWD1
scaffold_13	41682674	41686530	OARD1_g2616.t1	OARD1
scaffold_13	41681742	41687950	MSTRG.2733.1	OARD1
scaffold_13	41682674	41687950	MSTRG.2733.2	OARD1
scaffold_13	64366275	64366588	MSTRG.2902.1	OGFRL1
scaffold_13	64365054	64365541	MSTRG.2903.1	OGFRL1
scaffold_13	64349544	64356454	MSTRG.2912.1	OGFRL1
scaffold_13	64349545	64363253	MSTRG.2912.2	OGFRL1
scaffold_13	64367319	64367555	MSTRG.2913.1	OGFRL1
scaffold_13	64349614	64361809	OGRL1_g2789.t1	OGFRL1
scaffold_13	16977192	16977402	MSTRG.2377.1	OMA1
scaffold_13	27094905	27095864	OR2B8_g2299.t1	OR2B8P
scaffold_13	27109750	27110109	OR2B8_g2300.t1	OR2B8P
scaffold_13	27133215	27134153	OR2B8_g2301.t1	OR2B8P
scaffold_13	28652289	28653227	OR2BB_g2340.t1	OR2B11
scaffold_13	28741187	28742038	OR2BB_g2344.t1	OR2B11
scaffold_13	28741187	28742110	OR2BB_g2344.t2	OR2B11
scaffold_13	27085536	27086102	OR2G6_g2298.t1	OR2G6
scaffold_13	27172441	27173433	OR2G6_g2302.t1	OR2G6
scaffold_13	27254058	27254990	OR2G6_g2304.t1	OR2G6
scaffold_13	28409379	28410302	OR2W1_g2334.t1	OR2W1
scaffold_13	27679619	27721411	MSTRG.2535.1	OR4K76P
scaffold_13	26384926	26385849	OSGI2_g2269.t1	OSGI2
scaffold_13	26264346	26267465	P12L2_g2268.t1	P12L2
scaffold_13	35818208	35823790	PACN1_g2540.t1	PACN1
scaffold_13	46524498	46542132	PAFA_g2705.t1	PAFA
scaffold_13	10366248	10376359	MSTRG.2334.1	PAK1IP1
scaffold_13	10366433	10378605	MSTRG.2334.2	PAK1IP1
scaffold_13	51433110	51433318	MSTRG.2835.1	PAQR8
scaffold_13	51394618	51432315	PAQR8_g2733.t1	PAQR8
scaffold_13	51431251	51432315	PAQR8_g2734.t1	PAQR8
scaffold_13	33152329	33159460	MSTRG.2635.3	PBX2
scaffold_13	33152331	33159460	MSTRG.2635.5	PBX2
scaffold_13	33152790	33159460	MSTRG.2635.6	PBX2
scaffold_13	33156299	33159460	PBX2_g2489.t1	PBX2
scaffold_13	33151094	33159460	MSTRG.2635.1	PBX2
scaffold_13	33152331	33159460	MSTRG.2635.4	PBX2
scaffold_13	27121268	27121702	MSTRG.2515.1	PCMT1
scaffold_13	55556828	55649363	MSTRG.2866.6	PEX3
scaffold_13	43255655	43267146	PEX6_g2652.t1	PEX6
scaffold_13	34756310	34757266	PFD6_g2518.t1	PFD6
scaffold_13	34755831	34757266	MSTRG.2666.1	PFDN6
scaffold_13	34757311	34765431	MSTRG.2667.1	PFDN6

scaffold_13	34757311	34764479	MSTRG.2667.2	PFDN6
scaffold_13	15825922	15834666	PGAM5_g2156.t1	PGAM5
scaffold_13	27595042	27607288	PGBD1_g2318.t1	PGBD1
scaffold_13	49167199	49192116	PGK2_g2726.t2	PGK2
scaffold_13	12184589	12425534	PHAR1_g2137.t1	PHAR1
scaffold_13	12509549	12710443	PHAR1_g2138.t1	PHAR1
scaffold_13	34847481	34852709	MSTRG.2669.1	PHF1
scaffold_13	34847481	34852709	MSTRG.2669.2	PHF1
scaffold_13	34848476	34852709	PHF1_g2524.t1	PHF1
scaffold_13	58163328	58266972	PHF3_g2774.t1	PHF3
scaffold_13	58187277	58274130	MSTRG.2886.2	PHF3
scaffold_13	58187277	58252509	MSTRG.2886.3	PHF3
scaffold_13	37907664	37915004	PI16_g2581.t1	PI16
scaffold_13	37907499	37918457	MSTRG.2711.1	PI16
scaffold_13	38072987	38082923	PIM1_g2585.t1	PIM1
scaffold_13	50718836	50732910	MSTRG.2832.1	PKHD1
scaffold_13	50736601	50866463	MSTRG.2833.1	PKHD1
scaffold_13	50879351	50957153	MSTRG.2834.1	PKHD1
scaffold_13	50736608	50775512	PKHD1_g2729.t1	PKHD1
scaffold_13	46523895	46562040	MSTRG.2819.1	PLA2G7
scaffold_13	33139583	33141839	PLCA_g2486.t1	PLCA
scaffold_13	37335139	37378300	PLPL1_g2568.t1	PLPL1
scaffold_13	31861375	31866029	PO5F1_g2431.t1	POU5F1
scaffold_13	31970747	31973896	PO5F1_g2431.t2	POU5F1
scaffold_13	43745368	43774065	MSTRG.2797.1	POLH
scaffold_13	43748564	43774065	POLH_g2674.t1	POLH
scaffold_13	43748525	43774065	POLH_g2674.t2	POLH
scaffold_13	43745368	43774065	MSTRG.2797.2	POLH
scaffold_13	43745563	43766443	MSTRG.2797.3	POLH
scaffold_13	26197157	26197610	POLI_g2267.t1	POLI
scaffold_13	43690279	43696642	MSTRG.2795.1	POLR1C
scaffold_13	5003557	5004618	PP13G_g2097.t1	PPP1R3G
scaffold_13	31431823	31441559	PP1RA_g2409.t1	PPP1R10
scaffold_13	31431823	31441559	PP1RA_g2409.t2	PPP1R10
scaffold_13	30085276	30087758	PP1RB_g2392.t1	PP1RB
scaffold_13	36504397	36582003	MSTRG.2694.1	PPARD
scaffold_13	36504397	36582003	MSTRG.2694.2	PPARD
scaffold_13	36504407	36582003	MSTRG.2694.3	PPARD
scaffold_13	36504433	36582003	MSTRG.2694.4	PPARD
scaffold_13	37824313	37843859	MSTRG.2708.1	PPIL1
scaffold_13	37824313	37844341	MSTRG.2708.2	PPIL1
scaffold_13	37827832	37844341	PPIL1_g2579.t1	PPIL1
scaffold_13	31427440	31448690	MSTRG.2575.2	PPP1R10
scaffold_13	31427440	31449055	MSTRG.2575.1	PPP1R10
scaffold_13	31427440	31449055	MSTRG.2575.3	PPP1R10

scaffold_13	31430693	31448690	MSTRG.2575.4	PPP1R10
scaffold_13	31431823	31448690	MSTRG.2575.5	PPP1R10
scaffold_13	30085028	30087758	MSTRG.2547.5	PPP1R11
scaffold_13	30085147	30087758	MSTRG.2547.6	PPP1R11
scaffold_13	31490967	31500481	MSTRG.2577.1	PPP1R18
scaffold_13	31491852	31499289	PPR18_g2415.t1	PPP1R18
scaffold_13	33127391	33134763	MSTRG.2640.1	PPT2
scaffold_13	33127693	33134763	MSTRG.2640.2	PPT2
scaffold_13	33127831	33134763	MSTRG.2640.3	PPT2
scaffold_13	33128244	33134763	PPT2_g2484.t1	PPT2
scaffold_13	32707374	32720599	PRC2A_g2446.t2	PRRC2A
scaffold_13	55777196	56045802	PRI2_g2767.t1	PRI2
scaffold_13	20507958	20514809	MSTRG.2395.1	PRL
scaffold_13	7236293	7236522	MSTRG.2313.1	PRP
scaffold_13	3955730	3989532	PRP4B_g2090.t1	PRPF4B
scaffold_13	3955652	3993490	MSTRG.2294.2	PRPF4B
scaffold_13	3955730	3993490	MSTRG.2294.4	PRPF4B
scaffold_13	3955730	3993490	MSTRG.2294.5	PRPF4B
scaffold_13	3955730	3993490	MSTRG.2294.6	PRPF4B
scaffold_13	3955730	3993490	MSTRG.2294.7	PRPF4B
scaffold_13	3955651	3993490	MSTRG.2294.1	PRPF4B
scaffold_13	3955678	3993490	MSTRG.2294.3	PRPF4B
scaffold_13	43075406	43090726	PRPH2_g2644.t1	PRPH2
scaffold_13	32704822	32720599	MSTRG.2603.1	PRR2CA
scaffold_13	31399087	31405290	MSTRG.2573.3	PRR3
scaffold_13	31398694	31411098	MSTRG.2573.2	PRR3
scaffold_13	32705047	32720599	MSTRG.2603.2	PRRC2A
scaffold_13	34462362	34463568	PSB9_g2505.t2	PSB9
scaffold_13	34446516	34450059	TAP2_g2503.t2	PSMB8
scaffold_13	23692810	23703893	PSMD4_g2197.t1	PSMD4
scaffold_13	3143854	3151945	MSTRG.2291.1	PSMG4
scaffold_13	47698888	47750473	MSTRG.2827.7	PTCHD4
scaffold_13	47777652	47785341	RBM34_g2715.t1	PTCHD4
scaffold_13	43230842	43233884	PTCRA_g2649.t1	PTCRA
scaffold_13	47573339	47758768	PTHD4_g2714.t1	PTCHD4
scaffold_13	48270234	48270611	PTHD4_g2716.t1	PTCHD4
scaffold_13	43339683	43396003	PTK7_g2659.t1	PTK7
scaffold_13	58125816	58137347	MSTRG.2879.1	PTP4A1
scaffold_13	3608279	3634238	PXDC1_g2087.t1	PXDC1
scaffold_13	37449359	37473485	PXT1_g2571.t2	PXT1
scaffold_13	2900566	2922443	MSTRG.2285.1	QR2
scaffold_13	2900566	2905630	MSTRG.2285.2	QR2
scaffold_13	2907657	2922443	MSTRG.2285.4	QR2
scaffold_13	17118253	17179948	R144B_g2168.t1	RNF144B
scaffold_13	55669221	55702425	MSTRG.2868.1	RAB23

scaffold_13	55672559	55692031	RAB23_g2766.t1	RAB23
scaffold_13	37688315	37713895	RAB44_g2576.t1	RAB44
scaffold_13	33151377	33156298	RAGE_g2488.t1	RAGE
scaffold_13	13046776	13142744	RANB9_g2144.t1	RANBP9
scaffold_13	22245098	22245318	MSTRG.2398.1	RAPGEF4
scaffold_13	20120421	20120631	MSTRG.2393.1	RBBP6
scaffold_13	16252837	16262639	RBM24_g2159.t1	RBM24
scaffold_13	34758667	34765054	RGL2_g2519.t1	RGL2
scaffold_13	34758230	34764231	MSTRG.2667.3	RGL3
scaffold_13	65250467	65265214	MSTRG.2915.3	RIMS1
scaffold_13	65253770	65265214	MSTRG.2915.4	RIMS1
scaffold_13	64899407	65265214	RIMS1_g2790.t1	RIMS1
scaffold_13	34680017	34683864	MSTRG.2655.1	RING1
scaffold_13	34680315	34683864	RING1_g2513.t1	RING1
scaffold_13	7232580	7233176	MSTRG.2311.1	RIOK1
scaffold_13	7234214	7234497	MSTRG.2312.1	RIOK1
scaffold_13	7202947	7231035	RIOK1_g2111.t1	RIOK1
scaffold_13	2970674	3014644	MSTRG.2288.1	RIPK1
scaffold_13	2970674	3012644	MSTRG.2288.2	RIPK1
scaffold_13	2970796	3012568	MSTRG.2288.3	RIPK1
scaffold_13	2980695	3012568	RIPK1_g2080.t1	RIPK1
scaffold_13	22786017	22840447	RIPR2_g2192.t1	RIPOR2
scaffold_13	42042736	42042952	MSTRG.2739.1	RIT1
scaffold_13	44222702	44234051	RM14_g2680.t1	MRPL14
scaffold_13	13366393	13367133	RN182_g2145.t1	RNF182
scaffold_13	30089240	30093763	RNF39_g2393.t1	RNF39
scaffold_13	33148673	33150979	MSTRG.2634.1	RNF5
scaffold_13	33148694	33150979	RNF5_g2487.t1	RNF5
scaffold_13	38239160	38276210	CMTR1_g2589.t1	RNF8
scaffold_13	38239012	38276210	MSTRG.2716.1	RNF8
scaffold_13	43690349	43695188	RPAC1_g2672.t1	POLR1C
scaffold_13	43690322	43695188	RPAC1_g2672.t2	POLR1C
scaffold_13	14739701	14739932	MSTRG.2358.1	RPL23A
scaffold_13	43207022	43215004	MSTRG.2761.1	RPL7L1
scaffold_13	43207089	43215004	MSTRG.2761.3	RPL7L1
scaffold_13	43208146	43215004	MSTRG.2761.4	RPL7L1
scaffold_13	31280426	31281981	RPP21_g2404.t1	RPP21
scaffold_13	31280393	31281981	MSTRG.2571.1	RPP21
scaffold_13	4910329	4920870	MSTRG.2300.1	RPP40
scaffold_13	4910741	4920870	RPP40_g2095.t1	RPP40
scaffold_13	35735778	35741952	MSTRG.2680.1	RPS10
scaffold_13	6949777	7082533	MSTRG.2306.1	RREB1
scaffold_13	6949802	7082533	MSTRG.2306.2	RREB1
scaffold_13	7015088	7079969	RREB1_g2108.t1	RREB1
scaffold_13	7015031	7079969	RREB1_g2108.t2	RREB1

scaffold_13	43297984	43302952	RRP36_g2656.t1	RRP36
scaffold_13	43297929	43302952	MSTRG.2770.1	RRP36
scaffold_13	35735828	35741088	RS10_g2539.t1	RPS10
scaffold_13	34739969	34745186	RS18_g2515.t1	RS18
scaffold_13	43811876	43828845	MSTRG.2793.1	RSPH9
scaffold_13	43797755	43811792	RSPH9_g2677.t1	RSPH9
scaffold_13	43797755	43812026	RSPH9_g2677.t2	RSPH9
scaffold_13	42650249	42658799	RT10_g2639.t1	MRPS10
scaffold_13	31449173	31455100	RT18B_g2410.t1	MRPS18B
scaffold_13	36006284	36027997	RU1C_g2543.t1	SNRPC
scaffold_13	34665493	34672221	MSTRG.2653.1	RXRB
scaffold_13	3157348	3323677	S22AN_g2086.t1	S22AN
scaffold_13	37046015	37111527	S26A8_g2564.t1	SLC26A8
scaffold_13	44333057	44335785	S35B2_g2685.t1	SLC35B2
scaffold_13	8143470	8169295	S35B3_g2118.t1	SLC35B3
scaffold_13	34672762	34676173	S39A7_g2511.t1	S39A7
scaffold_13	32824147	32826062	SAPC1_g2461.t2	SAPC1
scaffold_13	27736461	27743776	SCND3_g2322.t1	ZBED9
scaffold_13	27934480	27950144	SCND3_g2329.t1	ZBED9
scaffold_13	36393502	36428216	SCUB3_g2548.t1	SCUBE3
scaffold_13	36393124	36425158	MSTRG.2691.1	SCUBE3
scaffold_13	36424949	36435382	MSTRG.2692.1	SCUBE3
scaffold_13	63856288	63865897	MSTRG.2905.2	SDHAF4
scaffold_13	63856288	64070831	MSTRG.2905.3	SDHAF4
scaffold_13	63845257	63864779	SDHF4_g2786.t1	SDHF4
scaffold_13	55667339	55667558	MSTRG.2867.1	SERINC4
scaffold_13	2679164	2679550	MSTRG.2278.1	SERPINB1
scaffold_13	2826103	2855369	MSTRG.2281.1	SERPINB6
scaffold_13	2826103	2855512	MSTRG.2281.2	SERPINB6
scaffold_13	2764571	2779797	MSTRG.2280.1	SERPINB9
scaffold_13	19671359	19671919	SFI1_g2177.t1	SFI1
scaffold_13	59316384	59316749	SKA2_g2776.t1	SKA2
scaffold_13	59313871	59316115	MSTRG.2892.1	SKA2
scaffold_13	32998907	33008550	SKIV2_g2477.t1	SKIV2L
scaffold_13	32998907	33008550	SKIV2_g2477.t2	SKIV2L
scaffold_13	32982061	32987719	MSTRG.2627.1	SKIV2L
scaffold_13	32994901	32998736	MSTRG.2629.1	SKIV2L
scaffold_13	32998855	33001154	MSTRG.2630.1	SKIV2L
scaffold_13	46488127	46494837	MSTRG.2817.2	SLC25A27
scaffold_13	12789215	12789428	MSTRG.2344.1	SLC25A53
scaffold_13	44303523	44313610	MSTRG.2799.1	SLC29A1
scaffold_13	44303525	44313610	MSTRG.2799.2	SLC29A1
scaffold_13	8143069	8169295	MSTRG.2329.1	SLC35B3
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scaffold_13	63918036	64012302	MSTRG.2905.5	SMAP1

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scaffold_13	10735081	10736954	MSTRG.2338.1	SMIM13
scaffold_13	10737354	10737682	MSTRG.2339.1	SMIM13
scaffold_13	7371724	7387525	SNR48_g2113.t1	SNRNP48
scaffold_13	7371732	7392449	MSTRG.2323.2	SNRNP48
scaffold_13	19953677	19984157	MSTRG.2391.1	SOX4
scaffold_13	19956891	19958315	SOX4_g2178.t1	SOX4
scaffold_13	2826237	2844465	SPB6_g2077.t1	SERPINB6
scaffold_13	2766819	2777199	SPB9_g2076.t1	SERPINB9
scaffold_13	35844455	35844684	MSTRG.2682.1	SPDEF
scaffold_13	35829595	35836386	SPDEF_g2541.t1	SPDEF
scaffold_13	43410807	43411856	MSTRG.2776.1	SRF
scaffold_13	43402696	43410536	SRF_g2660.t1	SRF
scaffold_13	36945413	36979631	SRPK1_g2563.t1	SRPK1
scaffold_13	37606054	37625330	MSTRG.2706.1	SRSF3
scaffold_13	37606054	37625330	MSTRG.2706.2	SRSF3
scaffold_13	37607937	37614922	SRSF3_g2574.t1	SRSF3
scaffold_13	22510925	22543324	SSDH_g2185.t1	ALDH5A1
scaffold_13	7142313	7182282	MSTRG.2309.1	SSR1
scaffold_13	7101593	7142397	SSRA_g2109.t1	SSRA
scaffold_13	42957313	42967665	MSTRG.2759.4	STARD13
scaffold_13	33011164	33018172	MSTRG.2632.1	STK19
scaffold_13	33011164	33018172	MSTRG.2632.2	STK19
scaffold_13	33011182	33018172	STK19_g2479.t1	STK19
scaffold_13	37532350	37572692	MSTRG.2705.1	STK38
scaffold_13	37545905	37572692	MSTRG.2705.3	STK38
scaffold_13	37534256	37567257	STK38_g2573.t1	STK38
scaffold_13	16113892	16137342	STMD1_g2158.t1	STMND1
scaffold_13	39474864	39476145	MSTRG.2725.1	STRA6
scaffold_13	44805349	45339024	MSTRG.2814.1	SUPT3H
scaffold_13	44376387	44388397	SYAM_g2689.t1	AARS2
scaffold_13	5322658	5323323	SYFM_g2101.t1	SYFM
scaffold_13	34856570	34886208	SYGP1_g2526.t1	SYNGAP1
scaffold_13	34852907	34862166	MSTRG.2670.3	SYNGAP1
scaffold_13	34861811	34873148	MSTRG.2671.2	SYNGAP1
scaffold_13	34873149	34878589	MSTRG.2671.3	SYNGAP1
scaffold_13	34878984	34886768	MSTRG.2671.4	SYNGAP1
scaffold_13	32835424	32849213	SYVC_g2463.t1	VARS1
scaffold_13	32850879	32855580	SYVC_g2463.t2	VARS1
scaffold_13	31662731	31673688	SYVM_g2422.t1	SYVM
scaffold_13	44348798	44353875	T151B_g2687.t1	T151B
scaffold_13	11109157	11147244	T170B_g2132.t2	T170B
scaffold_13	36098136	36098437	MSTRG.2687.1	TAF11
scaffold_13	42525912	42544246	TAF8_g2634.t1	TAF8

scaffold_13	42544906	42546045	MSTRG.2751.1	TAF8
scaffold_13	42526326	42526911	MSTRG.2752.2	TAF8
scaffold_13	42543561	42544246	MSTRG.2752.3	TAF8
scaffold_13	34451691	34458663	TAP1_g2504.t1	TAP1
scaffold_13	34433667	34444622	MSTRG.2646.1	TAP2
scaffold_13	34433803	34444082	TAP2_g2503.t1	TAP2
scaffold_13	34766146	34779836	MSTRG.2658.1	TAPBP
scaffold_13	34766146	34776418	MSTRG.2658.2	TAPBP
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scaffold_13	3055008	3056090	TBB2A_g2082.t1	TBB2A
scaffold_13	3055008	3058698	TBB2A_g2083.t1	TBB2A
scaffold_13	3112756	3115546	TBB2B_g2084.t1	TUBB2B
scaffold_13	12727934	12749364	MSTRG.2346.1	TBC1D7
scaffold_13	12727937	12749364	MSTRG.2346.2	TBC1D7
scaffold_13	12727946	12749364	MSTRG.2346.3	TBC1D7
scaffold_13	12748252	12749364	MSTRG.2346.5	TBC1D7
scaffold_13	43106629	43107666	TBCC_g2645.t1	TBCC
scaffold_13	12728460	12747426	TBCD7_g2139.t1	TBC1D7
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scaffold_13	31856154	31859998	MSTRG.2588.3	TCF19
scaffold_13	31856154	31859998	MSTRG.2588.4	TCF19
scaffold_13	31857047	31859998	TCF19_g2430.t1	TCF19
scaffold_13	36300825	36321768	TCP11_g2547.t1	TCP11
scaffold_13	22655463	22670978	MSTRG.2403.1	TDP2
scaffold_13	46507893	46521183	TDRD6_g2704.t1	TDRD6
scaffold_13	36625971	36648025	MSTRG.2697.2	TEAD3
scaffold_13	36625971	36648025	MSTRG.2697.1	TEAD3
scaffold_13	33038708	33086447	TENX_g2482.t1	TENX
scaffold_13	33100278	33109343	TENX_g2482.t2	TENX
scaffold_13	4031041	4054233	ECI2_g2093.t1	TEX56P
scaffold_13	47691729	47751010	MSTRG.2827.6	TIGD1
scaffold_13	53140548	53238929	TINAG_g2751.t1	TINAG
scaffold_13	43655131	43680387	MSTRG.2786.2	TJAP1
scaffold_13	43655146	43680387	MSTRG.2786.3	TJAP1
scaffold_13	43655131	43680387	MSTRG.2786.1	TJAP1
scaffold_13	43655440	43680387	MSTRG.2786.4	TJAP1
scaffold_13	10391708	10397799	TM14C_g2125.t1	TM14C
scaffold_13	51667786	51681623	MSTRG.2839.2	TMEM14A
scaffold_13	10390560	10398562	MSTRG.2335.1	TMEM14C
scaffold_13	44354691	44354996	MSTRG.2800.1	TMEM151B
scaffold_13	44234751	44258243	MSTRG.2805.2	TMEM63B
scaffold_13	44244281	44251417	MSTRG.2805.3	TMEM63B
scaffold_13	32670434	32672233	TNFA_g2443.t1	TNF
scaffold_13	47004857	47026388	MSTRG.2820.1	TNFRSF21
scaffold_13	44342779	44342998	MSTRG.2802.1	TNFRSF6

scaffold_13	47005982	47067902	TNR21_g2709.t1	TNR21
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scaffold_13	42319518	42320203	TOM6_g2629.t1	TOMM6
scaffold_13	42323768	42335642	MSTRG.2743.1	TOMM6
scaffold_13	42319382	42320735	MSTRG.2745.1	TOMM6
scaffold_13	58129868	58137347	TP4A1_g2773.t1	PTP4A1
scaffold_13	16911257	16930869	TPMT_g2165.t1	TPMT
scaffold_13	16910758	16935627	MSTRG.2375.1	TPMT
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scaffold_13	51513625	51589997	MSTRG.2838.1	TRAM2
scaffold_13	51518995	51589997	TRAM2_g2736.t1	TRAM2
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scaffold_13	41857362	41864040	TREM1_g2622.t1	TREM1
scaffold_13	41857362	41864040	TREM1_g2622.t2	TREM1
scaffold_13	41779805	41806073	TREM2_g2620.t1	TREM2
scaffold_13	42702943	42858066	B4GN4_g2641.t1	TRERF1
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scaffold_13	28283860	28284285	TRI27_g2331.t1	TRI27
scaffold_13	28299242	28316081	TRI27_g2331.t2	TRI27
scaffold_13	23972903	23981117	TRI38_g2205.t1	TRI38
scaffold_13	31268242	31277940	TRI39_g2403.t1	TRIM39
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scaffold_13	23972057	23981117	MSTRG.2412.1	TRIM38
scaffold_13	31265050	31279305	MSTRG.2570.1	TRIM39
scaffold_13	30159827	30172283	MSTRG.2545.1	TRIM40
scaffold_13	63882630	63882878	MSTRG.2906.1	TRIT1
scaffold_13	33543523	33611851	TSBP1_g2493.t2	TSBP1
scaffold_13	33640450	33669654	TSBP1_g2493.t3	TSBP1
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scaffold_13	22656655	22670978	TYDP2_g2187.t1	TDP2
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scaffold_13	42956873	42957312	BCL9_g2642.t1	UBR2
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scaffold_13	42956873	43003632	MSTRG.2759.1	UBR2
scaffold_13	43004135	43012682	MSTRG.2759.6	UBR2
scaffold_13	43042546	43049474	MSTRG.2759.7	UBR2
scaffold_13	42957313	43070782	UBR2_g2643.t1	UBR2

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scaffold_13	35063630	35076991	MSTRG.2674.3	UQCC2
scaffold_13	35063671	35077568	UQCC2_g2531.t1	UQCC2
scaffold_13	35063579	35071274	MSTRG.2674.1	UQCC2
scaffold_13	35063671	35073057	MSTRG.2674.4	UQCC2
scaffold_13	31662102	31673688	MSTRG.2586.3	VARS2
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scaffold_13	43910287	43926449	MSTRG.2813.1	VEGFA
scaffold_13	43910365	43926449	MSTRG.2813.2	VEGFA
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scaffold_13	32826369	32834938	VWA7_g2462.t1	VWA7
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scaffold_13	43696639	43745127	XPO5_g2673.t1	XPO5
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scaffold_13	32929959	32931981	MSTRG.2622.2	ZBTB12
scaffold_13	32929647	32932030	MSTRG.2622.1	ZBTB12
scaffold_13	34888817	34891776	MSTRG.2668.1	ZBTB9
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scaffold_13	38753507	38995823	ZFAN3_g2594.t1	ZFAND3
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scaffold_13	27445622	27446446	ZKSC8_g2312.t1	ZKSCAN8
scaffold_13	27418522	27439118	MSTRG.2525.1	ZKSCAN8
scaffold_13	27418522	27435808	MSTRG.2525.2	ZKSCAN8
scaffold_13	27448227	27458054	MSTRG.2527.1	ZKSCAN8
scaffold_13	27760544	27768415	MSTRG.2537.1	ZKSCAN8
scaffold_13	27353692	27357408	ZN165_g2308.t1	ZNF165
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scaffold_13	43545208	43570508	ZN318_g2666.t1	ZNF318
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scaffold_13	26392086	26393162	ZN391_g2270.t1	ZNF391
scaffold_13	27380342	27389507	ZN397_g2309.t1	ZNF397
scaffold_13	55556432	55623151	ZN451_g2764.t1	ZNF451
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scaffold_13	43544391	43544753	MSTRG.2785.1	ZNF318
scaffold_13	25543581	25566417	MSTRG.2462.1	ZNF322
scaffold_13	24101625	24101830	MSTRG.2434.1	ZNF367
scaffold_13	7231135	7232188	MSTRG.2317.1	ZNF383
scaffold_13	26393395	26393610	MSTRG.2477.1	ZNF391
scaffold_13	27378249	27389507	MSTRG.2524.1	ZNF397
scaffold_13	55556220	55649363	MSTRG.2866.1	ZNF451
scaffold_13	55556244	55649363	MSTRG.2866.3	ZNF451
scaffold_13	55650059	55650280	MSTRG.2865.1	ZNF451
scaffold_13	55556244	55580268	MSTRG.2866.2	ZNF451
scaffold_13	55556432	55649363	MSTRG.2866.4	ZNF451
scaffold_13	35825144	35825347	MSTRG.2679.1	ZNF618
scaffold_13	47732421	47751010	MSTRG.2827.8	ZNF709
scaffold_13	36453415	36467123	ZNF76_g2549.t1	ZNF76
scaffold_13	36435630	36467123	MSTRG.2693.1	ZNF76
scaffold_13	26321534	26321846	MSTRG.2473.1	ZNF883
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scaffold_13	30078992	30082366	MSTRG.2547.2	ZNRD1
scaffold_13	27395036	27403829	ZSC16_g2310.t1	ZSCAN16
scaffold_13	27749465	27751235	ZSC23_g2323.t2	ZSCAN23
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scaffold_13	27623603	27626566	ZSC31_g2319.t1	ZSCAN31
scaffold_13	27483310	27489250	ZSC9_g2314.t1	ZSCAN9
scaffold_13	27701600	27721411	MSTRG.2535.5	ZSCAN12
scaffold_13	27701600	27721411	MSTRG.2535.3	ZSCAN12
scaffold_13	27701600	27720654	MSTRG.2535.4	ZSCAN12
scaffold_13	27394299	27403829	MSTRG.2522.1	ZSCAN16
scaffold_13	27736058	27740468	MSTRG.2534.1	ZSCAN23
scaffold_13	27622315	27635165	MSTRG.2532.1	ZSCAN31
scaffold_14	9849970	9887036	ABHD3_g2857.t1	ABHD3
scaffold_14	9849856	9855617	MSTRG.3033.1	ABHD3
scaffold_14	9849957	9855617	MSTRG.3033.2	ABHD3
scaffold_14	64879655	64896556	ADNP2_g3119.t2	ADNP2
scaffold_14	64860246	64897967	MSTRG.3330.1	ADNP2
scaffold_14	64860246	64881197	MSTRG.3330.2	ADNP2
scaffold_14	7577751	7616208	AFG32_g2835.t1	AFG3L2
scaffold_14	2168323	2168540	MSTRG.2945.1	ALDH2

scaffold_14	3605656	3732332	MSTRG.2961.1	ANKRD12
scaffold_14	3605702	3732332	MSTRG.2961.2	ANKRD12
scaffold_14	3638346	3708587	MSTRG.2961.3	ANKRD12
scaffold_14	3638396	3730920	ANR12_g2810.t1	ANKRD12
scaffold_14	8053773	8154031	ANR29_g2845.t1	ANKRD29
scaffold_14	8166907	8220505	ANR29_g2845.t2	ANKRD29
scaffold_14	4746324	4778214	APCD1_g2818.t1	APCDD1
scaffold_14	18319174	18327920	AQP4_g2906.t1	AQP4
scaffold_14	1587440	1587927	MSTRG.2929.1	ARHGAP28
scaffold_14	1490081	1520770	MSTRG.2932.2	ARHGAP28
scaffold_14	1500733	1552374	MSTRG.2932.3	ARHGAP28
scaffold_14	1585371	1586248	MSTRG.2939.1	ARHGAP28
scaffold_14	24259608	24432826	ASXL3_g2929.t1	ASXL3
scaffold_14	45605520	45664232	AT8B1_g3033.t1	ATP8B1
scaffold_14	63797431	64096348	ATP9B_g3107.t1	ATP9B
scaffold_14	35543657	35552249	ATPA_g2971.t1	ATP5F1A
scaffold_14	9904855	9906750	MSTRG.3030.1	B3GNT5
scaffold_14	11129338	11151183	MSTRG.3043.1	BCKDHA
scaffold_14	50052190	50220413	BCL2_g3056.t1	BCL2
scaffold_14	26352370	26361409	MSTRG.3139.1	C18ORF21
scaffold_14	26352582	26361409	MSTRG.3139.2	C18ORF21
scaffold_14	26352645	26361409	MSTRG.3139.3	C18ORF21
scaffold_14	35604164	35696873	MSTRG.3165.1	ARK2N
scaffold_14	35604177	35684395	MSTRG.3165.2	ARK2N
scaffold_14	38484338	38490821	MSTRG.3199.1	C18ORF32
scaffold_14	42656174	42682774	MSTRG.3234.1	C18ORF54
scaffold_14	8517264	8627002	CABL1_g2849.t1	CABLES1
scaffold_14	15778016	15796310	CABYR_g2891.t1	CABYR
scaffold_14	48729657	48775993	CAD20_g3048.t2	CDH20
scaffold_14	19297959	19506449	CADH2_g2908.t1	CDH2
scaffold_14	15260652	15260871	MSTRG.3068.1	CBL
scaffold_14	58170181	58174272	CBLN2_g3080.t2	CBLN2
scaffold_14	47061364	47292793	CCBE1_g3046.t1	CCBE1
scaffold_14	47052888	47292793	MSTRG.3267.4	CCBE1
scaffold_14	47084895	47292793	MSTRG.3267.6	CCBE1
scaffold_14	43147518	43180379	CCD68_g3022.t1	CCDC68
scaffold_14	43144691	43168565	MSTRG.3237.1	CCDC68
scaffold_14	43144708	43195983	MSTRG.3237.2	CCDC68
scaffold_14	43172510	43195983	MSTRG.3237.4	CCDC68
scaffold_14	15318460	15318812	MSTRG.3071.1	CCDC74B
scaffold_14	56087230	56136430	CD226_g3076.t1	CD226
scaffold_14	19506769	19507287	MSTRG.3100.1	CDH2
scaffold_14	19400851	19470371	MSTRG.3106.1	CDH2
scaffold_14	36965392	36991668	MSTRG.3183.1	CDX2
scaffold_14	6828352	6992324	MSTRG.2984.1	CEP192

scaffold_14	6828407	6961372	MSTRG.2984.2	CEP192
scaffold_14	6828407	6961372	MSTRG.2984.3	CEP192
scaffold_14	7225121	7257871	CEP76_g2831.t1	CEP76
scaffold_14	7226365	7241507	MSTRG.2988.2	CEP76
scaffold_14	8053571	8080889	MSTRG.3004.1	CEP76
scaffold_14	15945730	15964566	MSTRG.3099.1	CEP76
scaffold_14	39167478	39228766	MSTRG.3209.1	CFAP53
scaffold_14	7882192	7882791	CHM1B_g2842.t1	CHMP1B
scaffold_14	7808699	7832640	CLIP1_g2839.t1	CLIP1
scaffold_14	10991820	11029047	CLUL1_g2867.t1	CLUL1
scaffold_14	59735824	59753352	CNDP2_g3087.t1	CNDP2
scaffold_14	59732861	59753352	MSTRG.3303.1	CNDP2
scaffold_14	59732892	59753352	MSTRG.3303.2	CNDP2
scaffold_14	59732892	59753352	MSTRG.3303.3	CNDP2
scaffold_14	59732992	59753352	MSTRG.3303.4	CNDP2
scaffold_14	59735824	59753352	MSTRG.3303.5	CNDP2
scaffold_14	59739842	59753352	MSTRG.3303.7	CNDP2
scaffold_14	10732854	10911909	COL12_g2865.t1	COLEC12
scaffold_14	15338700	15340798	COL12_g2887.t1	COLEC12
scaffold_14	37966428	37966633	MSTRG.3196.1	CPA1
scaffold_14	46952765	46979590	CPLX4_g3044.t1	CPLX4
scaffold_14	46951182	47005216	MSTRG.3255.1	CPLX4
scaffold_14	26352645	26361409	CR021_g2945.t1	C18ORF21
scaffold_14	35636666	35680612	CR025_g2973.t1	ARK2N
scaffold_14	35636666	35696873	CR025_g2973.t2	ARK2N
scaffold_14	59580840	59603758	CR063_g3085.t1	C18ORF63
scaffold_14	64397367	64477809	CTDP1_g3110.t1	CTDP1
scaffold_14	64397456	64478311	MSTRG.3331.2	CTDP1
scaffold_14	64397456	64400591	MSTRG.3331.3	CTDP1
scaffold_14	7260392	7260608	MSTRG.2985.1	CTDSP1
scaffold_14	37693965	37909720	CTIF_g2986.t1	CTIF
scaffold_14	37912276	37912483	MSTRG.3194.1	CTIF
scaffold_14	37913160	37913370	MSTRG.3195.1	CTIF
scaffold_14	8716068	8730262	CTIP_g2850.t1	RBBP8
scaffold_14	8733908	8799172	CTIP_g2851.t1	RBBP8
scaffold_14	39230132	39235415	CXXC1_g2997.t1	CXXC1
scaffold_14	59529676	59563406	CYB5_g3084.t1	CYB5
scaffold_14	64740127	64755409	MSTRG.3334.1	DGLUCY
scaffold_14	64740811	64755409	MSTRG.3334.2	DGLUCY
scaffold_14	59672488	59692078	DIK1C_g3086.t1	DIPK1C
scaffold_14	13633943	13700689	DLGP1_g2881.t2	DLGAP1
scaffold_14	13745361	13957165	DLGP1_g2883.t1	DLGAP1
scaffold_14	22044067	22075808	DSC2_g2912.t1	DSC2
scaffold_14	22039641	22075808	MSTRG.3108.1	DSC2
scaffold_14	22039641	22075808	MSTRG.3108.2	DSC2

scaffold_14	22041458	22075808	MSTRG.3108.3	DSC2
scaffold_14	21971636	22016574	DSC3_g2911.t1	DSC3
scaffold_14	21970947	21971336	MSTRG.3103.1	DSC3
scaffold_14	54053462	54057992	DSEL_g3071.t1	DSEL
scaffold_14	54040054	54059123	MSTRG.3290.1	DSEL
scaffold_14	54040054	54059123	MSTRG.3290.2	DSEL
scaffold_14	22289814	22443095	MSTRG.3110.1	DSG1
scaffold_14	22289854	22443095	MSTRG.3110.2	DSG1
scaffold_14	22323559	22370738	DSG4_g2915.t1	DSG4
scaffold_14	22397104	22426436	DSG4_g2915.t2	DSG4
scaffold_14	25340829	25475924	DTNA_g2932.t1	DTNA
scaffold_14	25227362	25483413	MSTRG.3123.1	DTNA
scaffold_14	38081699	38439221	DYM_g2988.t1	DYM
scaffold_14	38079809	38463955	MSTRG.3197.1	DYM
scaffold_14	42700553	42713702	DYNAP_g3014.t1	DYNAP
scaffold_14	42810896	42823537	DYNAP_g3015.t1	DYNAP
scaffold_14	170037	295586	E41L3_g2794.t1	EPB41L3
scaffold_14	43421293	43421499	MSTRG.3236.1	EDEM3
scaffold_14	9483798	9484753	ELAP1_g2854.t1	ELAPOR1
scaffold_14	26504391	26551786	ELP2_g2948.t1	ELP2
scaffold_14	13089095	13141162	EMIL2_g2876.t1	EMILIN2
scaffold_14	13089752	13141162	MSTRG.3046.2	EMILIN2
scaffold_14	11055290	11083526	ENOF1_g2869.t1	ENOSF1
scaffold_14	11054505	11083526	MSTRG.3041.1	ENOSF1
scaffold_14	11057170	11058527	MSTRG.3041.3	ENOSF1
scaffold_14	168936	258394	MSTRG.2917.2	EPB41L3
scaffold_14	168953	264033	MSTRG.2917.4	EPB41L3
scaffold_14	168903	306635	MSTRG.2917.1	EPB41L3
scaffold_14	168953	405693	MSTRG.2917.3	EPB41L3
scaffold_14	191592	258394	MSTRG.2917.6	EPB41L3
scaffold_14	35333819	35440881	EPG5_g2969.t1	EPG5
scaffold_14	1808420	1808839	MSTRG.2942.1	ERICH4
scaffold_14	9934046	10017053	MSTRG.3034.1	ESCO1
scaffold_14	8111708	8111933	MSTRG.3007.1	FAM19A3
scaffold_14	6210334	6246812	MSTRG.2982.1	FAM210A
scaffold_14	15755580	15758967	MSTRG.3074.6	FAM83C
scaffold_14	59383338	59430827	FBX15_g3082.t1	FBX15
scaffold_14	26638112	27101554	FHOD3_g2950.t1	FHOD3
scaffold_14	64939853	64940082	MSTRG.3340.1	FOXJ2
scaffold_14	23109798	23297947	GARE1_g2925.t1	GAREM1
scaffold_14	23104288	23297947	MSTRG.3117.1	GAREM1
scaffold_14	23108719	23164380	MSTRG.3117.2	GAREM1
scaffold_14	9454205	9481374	GATA6_g2853.t1	GATA6
scaffold_14	9483020	9486803	MSTRG.3024.5	GATA6
scaffold_14	9451182	9483035	MSTRG.3023.3	GATA6

scaffold_14	9482923	9486803	MSTRG.3024.1	GATA6
scaffold_14	9482923	9530826	MSTRG.3024.2	GATA6
scaffold_14	9482923	9486803	MSTRG.3024.3	GATA6
scaffold_14	9482931	9486803	MSTRG.3024.4	GATA6
scaffold_14	46898028	46898549	GCSH_g3041.t1	GCSH
scaffold_14	7855809	7994696	GNAL_g2841.t1	GNAL
scaffold_14	1080633	1080836	MSTRG.2925.1	GPR83
scaffold_14	10020257	10143973	GRB1L_g2861.t1	GRB1L
scaffold_14	10013978	10281377	MSTRG.3035.1	GREB1L
scaffold_14	10023407	10281377	MSTRG.3035.3	GREB1L
scaffold_14	10036544	10281377	MSTRG.3035.4	GREB1L
scaffold_14	10042751	10281377	MSTRG.3035.5	GREB1L
scaffold_14	35554960	35571885	HAUS1_g2972.t1	HAUS1
scaffold_14	36357967	36358183	MSTRG.3176.1	HDHD2
scaffold_14	36359199	36403002	MSTRG.3178.1	HDHD2
scaffold_14	45515653	45547666	HEMH_g3030.t1	FECH
scaffold_14	47051547	47084894	MSTRG.3267.2	MTIF2
scaffold_14	47051547	47084894	MSTRG.3267.3	MTIF2
scaffold_14	47051547	47292793	MSTRG.3267.1	IF2
scaffold_14	47042622	47042950	MSTRG.3259.1	IFT80
scaffold_14	54876226	54877318	MSTRG.3291.1	IL27RA
scaffold_14	7726507	7771726	IMPA2_g2838.t1	IMPA2
scaffold_14	7725973	7777542	MSTRG.2996.1	IMPA2
scaffold_14	7743584	7799606	MSTRG.2996.3	IMPA2
scaffold_14	16145739	16175452	MSTRG.3081.1	IMPACT
scaffold_14	16145821	16174250	IMPCT_g2895.t1	IMPACT
scaffold_14	25936529	25959277	IN80C_g2941.t1	INO80C
scaffold_14	36408252	36422762	IR3IP_g2981.t1	IR3IP
scaffold_14	46928766	46929041	ITA2B_g3042.t1	ITA2B
scaffold_14	43426094	43478112	ITF2_g3023.t1	TCF4
scaffold_14	13604876	13605548	MSTRG.3054.1	JAML
scaffold_14	64610216	64611127	KCNG2_g3111.t1	KCNG2
scaffold_14	17963200	18054226	KCTD1_g2905.t1	KCTD1
scaffold_14	17958703	18150177	MSTRG.3091.1	KCTD1
scaffold_14	17962513	18055045	MSTRG.3091.2	KCTD1
scaffold_14	50231577	50268305	KDSR_g3057.t1	KDSR
scaffold_14	50230113	50268305	MSTRG.3278.1	KDSR
scaffold_14	27463079	27528525	ATPO_g2953.t1	KIAA1328
scaffold_14	27179299	27531217	MSTRG.3153.1	KIAA1328
scaffold_14	27179305	27531217	MSTRG.3153.2	KIAA1328
scaffold_14	49319738	49328010	MSTRG.3277.3	RELCH
scaffold_14	8850520	8850731	MSTRG.3018.1	KRBA1
scaffold_14	1647748	1805962	LAMA1_g2801.t1	LAMA1
scaffold_14	1644376	1805962	MSTRG.2946.1	LAMA1
scaffold_14	15366464	15616553	MSTRG.3083.2	LAMA3

scaffold_14	15367077	15618952	MSTRG.3083.4	LAMA3
scaffold_14	15367077	15616553	MSTRG.3083.5	LAMA3
scaffold_14	15367077	15616553	MSTRG.3083.7	LAMA3
scaffold_14	15366163	15395104	MSTRG.3083.1	LAMA3
scaffold_14	15366541	15561866	MSTRG.3083.3	LAMA3
scaffold_14	15480495	15484744	MSTRG.3083.8	LAMA3
scaffold_14	42659086	42681504	LAS2_g3013.t1	C18orf54
scaffold_14	15124891	15125283	LDOC1_g2885.t1	LDOC1
scaffold_14	46979591	47005216	LMAN1_g3045.t1	LMAN1
scaffold_14	964232	990208	LMBL4_g2797.t1	L3MBTL4
scaffold_14	25787059	25793070	PSMD8_g2936.t1	LOC100052677
scaffold_14	881939	882158	MSTRG.2920.1	LOC111770847
scaffold_14	35849207	36024653	LOXH1_g2975.t1	LOXHD1
scaffold_14	13143375	13229681	MSTRG.3048.3	LPIN2
scaffold_14	13143464	13230047	MSTRG.3048.4	LPIN2
scaffold_14	13143146	13230047	MSTRG.3048.1	LPIN2
scaffold_14	13143146	13229681	MSTRG.3048.2	LPIN2
scaffold_14	6261784	6292331	LRAD4_g2826.t1	LRAD4
scaffold_14	1899370	1900275	LRC30_g2802.t1	LRRC30
scaffold_14	42472591	42472811	MSTRG.3227.1	LRGUK
scaffold_14	51049172	51049719	MSTRG.3288.1	LRRC29
scaffold_14	64459509	64461515	MSTRG.3332.1	LY75
scaffold_14	39659625	39701995	MAOM_g3002.t1	ME2
scaffold_14	39547427	39547692	MSTRG.3212.1	MAPK4
scaffold_14	39487356	39487700	MSTRG.3210.1	MAPK4
scaffold_14	25597322	25688563	MARE2_g2933.t1	MAPRE2
scaffold_14	39216687	39227190	MBD1_g2996.t1	MBD1
scaffold_14	39211872	39228766	MSTRG.3209.3	MBD1
scaffold_14	39211872	39228766	MSTRG.3209.4	MBD1
scaffold_14	39211908	39228766	MSTRG.3209.5	MBD1
scaffold_14	39211908	39228766	MSTRG.3209.6	MBD1
scaffold_14	39211943	39228766	MSTRG.3209.7	MBD1
scaffold_14	39211943	39228766	MSTRG.3209.8	MBD1
scaffold_14	39214874	39223892	MSTRG.3209.9	MBD1
scaffold_14	42530233	42547929	MBD2_g3010.t1	MBD2
scaffold_14	42480521	42547929	MSTRG.3232.1	MBD2
scaffold_14	61873396	61905558	MBP_g3097.t1	MBP
scaffold_14	6184570	6207079	MCES_g2824.t1	RNMT
scaffold_14	39652610	39701995	MSTRG.3223.1	ME2
scaffold_14	39652677	39701995	MSTRG.3223.2	ME2
scaffold_14	12815293	12848847	METL4_g2873.t1	METL4
scaffold_14	12815293	12850757	MSTRG.3044.1	METTL4
scaffold_14	39899758	39920767	MEX3C_g3006.t1	MEX3C
scaffold_14	39890825	39891211	MSTRG.3222.1	MFSD9
scaffold_14	9705762	9823871	MSTRG.3027.1	MIB1

scaffold_14	9705988	9823871	MSTRG.3027.2	MIB1
scaffold_14	39488130	39546999	MK04_g3000.t1	MAPK4
scaffold_14	13430044	13434699	ML12B_g2879.t1	ML12B
scaffold_14	26564388	26618867	MOCOS_g2949.t1	MOCOS
scaffold_14	7843054	7852874	MPPE1_g2840.t1	MPPE1
scaffold_14	25690209	25690503	MSTRG.3126.1	MPRE2
scaffold_14	39588195	39611283	MSTRG.3213.1	MRO
scaffold_14	24636275	24636557	MSTRG.3120.1	MRPL50
scaffold_14	39595721	39611283	MSTRO_g3001.t1	MRO
scaffold_14	3201739	3334411	MTCL1_g2806.t1	MTCL1
scaffold_14	13405875	13434699	MSTRG.3052.1	MYL9
scaffold_14	13411012	13416203	MYL9_g2878.t1	MYL9
scaffold_14	38804346	39146865	MYO5B_g2994.t1	MYO5B
scaffold_14	13146457	13229681	MYOM1_g2877.t1	MYOM1
scaffold_14	13261827	13381571	MYOM1_g2877.t2	MYOM1
scaffold_14	4325138	4325453	MSTRG.2975.1	NAALADL2
scaffold_14	4817180	4841621	MSTRG.2976.1	NAPG
scaffold_14	12852344	12897815	NDC80_g2874.t1	NDC80
scaffold_14	12852299	12897815	NDC80_g2874.t2	NDC80
scaffold_14	3569194	3602709	MSTRG.2956.1	NDUFV2
scaffold_14	3583402	3601708	NDUV2_g2809.t1	NDUV2
scaffold_14	46158242	46231776	NED4L_g3034.t1	NEDD4L
scaffold_14	45897487	46231776	MSTRG.3248.1	NEDD4L
scaffold_14	58340510	58446743	NETO1_g3081.t1	NETO1
scaffold_14	64126245	64249074	NFAC1_g3109.t1	NFAC1
scaffold_14	23062458	23063345	NIPA2_g2924.t1	NIPA2
scaffold_14	37080092	37085736	NOL11_g2984.t1	NOL11
scaffold_14	24532702	24911196	NOL4_g2930.t1	NOL4
scaffold_14	63419452	63419907	ADIPL_g3103.t1	ADIPL_g3103.t1
scaffold_14	9980308	10013575	AGRG1_g2860.t1	AGRG1_g2860.t1
scaffold_14	15859305	15859517	F16PA_g2893.t1	F16PA_g2893.t1
scaffold_14	52745538	52756659	LIPS_g3069.t1	LIPS_g3069.t1
scaffold_14	9712194	9823871	MIB1_g2856.t1	MIB1_g2856.t1
scaffold_14	379874	380083	MSTRG.2918.1	MSTRG.2918.1
scaffold_14	1402645	1402928	MSTRG.2934.1	MSTRG.2934.1
scaffold_14	1440217	1440493	MSTRG.2935.1	MSTRG.2935.1
scaffold_14	1486995	1487300	MSTRG.2937.1	MSTRG.2937.1
scaffold_14	3157537	3157746	MSTRG.2948.1	MSTRG.2948.1
scaffold_14	3774598	3815900	MSTRG.2960.3	MSTRG.2960.3
scaffold_14	3874911	3933303	MSTRG.2965.2	MSTRG.2965.2
scaffold_14	3874911	3933303	MSTRG.2965.3	MSTRG.2965.3
scaffold_14	3875685	3933303	MSTRG.2965.4	MSTRG.2965.4
scaffold_14	6662727	6662959	MSTRG.2980.1	MSTRG.2980.1
scaffold_14	15221897	15222099	MSTRG.3066.1	MSTRG.3066.1
scaffold_14	15272104	15282034	MSTRG.3070.1	MSTRG.3070.1

scaffold_14	15923761	15923986	MSTRG.3079.1	MSTRG.3079.1
scaffold_14	16162976	16163182	MSTRG.3082.1	MSTRG.3082.1
scaffold_14	17781859	17782076	MSTRG.3090.1	MSTRG.3090.1
scaffold_14	18114435	18114698	MSTRG.3094.1	MSTRG.3094.1
scaffold_14	18143732	18143964	MSTRG.3095.1	MSTRG.3095.1
scaffold_14	24870674	24870884	MSTRG.3122.1	MSTRG.3122.1
scaffold_14	26177171	26177399	MSTRG.3136.1	MSTRG.3136.1
scaffold_14	26031780	26160106	MSTRG.3137.2	MSTRG.3137.2
scaffold_14	26571177	26571473	MSTRG.3145.1	MSTRG.3145.1
scaffold_14	26577574	26577776	MSTRG.3146.1	MSTRG.3146.1
scaffold_14	26594601	26594853	MSTRG.3147.1	MSTRG.3147.1
scaffold_14	27047158	27047359	MSTRG.3150.1	MSTRG.3150.1
scaffold_14	34880609	34880827	MSTRG.3158.1	MSTRG.3158.1
scaffold_14	35721608	35722350	MSTRG.3168.1	MSTRG.3168.1
scaffold_14	36991886	37054033	MSTRG.3184.3	MSTRG.3184.3
scaffold_14	37078859	37086972	MSTRG.3186.4	MSTRG.3186.4
scaffold_14	37078935	37086972	MSTRG.3186.5	MSTRG.3186.5
scaffold_14	37078951	37086972	MSTRG.3186.6	MSTRG.3186.6
scaffold_14	37507989	37508191	MSTRG.3190.1	MSTRG.3190.1
scaffold_14	39277212	39295286	MSTRG.3214.3	MSTRG.3214.3
scaffold_14	39882150	39886842	MSTRG.3220.1	MSTRG.3220.1
scaffold_14	41594171	41594386	MSTRG.3231.1	MSTRG.3231.1
scaffold_14	47038645	47038948	MSTRG.3258.1	MSTRG.3258.1
scaffold_14	47309202	47309406	MSTRG.3265.1	MSTRG.3265.1
scaffold_14	48745786	48746003	MSTRG.3270.1	MSTRG.3270.1
scaffold_14	49008363	49008569	MSTRG.3271.1	MSTRG.3271.1
scaffold_14	50140159	50140362	MSTRG.3287.1	MSTRG.3287.1
scaffold_14	60448223	60448428	MSTRG.3312.1	MSTRG.3312.1
scaffold_14	61410205	61410433	MSTRG.3317.1	MSTRG.3317.1
scaffold_14	63797410	64096348	MSTRG.3321.2	MSTRG.3321.2
scaffold_14	63817412	64096348	MSTRG.3321.7	MSTRG.3321.7
scaffold_14	64902770	64902989	MSTRG.3335.1	MSTRG.3335.1
scaffold_14	64772238	64772468	MSTRG.3336.1	MSTRG.3336.1
scaffold_14	64948859	64949087	MSTRG.3341.1	MSTRG.3341.1
scaffold_14	34107571	34114864	PCDA4_g2962.t1	PCDA4_g2962.t1
scaffold_14	7217920	7221839	PSMG2_g2830.t2	PSMG2_g2830.t2
scaffold_14	63800544	63800870	SO1C1_g3108.t1	SO1C1_g3108.t1
scaffold_14	77457	77686	MSTRG.2914.1	NOTHING
scaffold_14	392338	393529	MSTRG.2919.1	NOTHING
scaffold_14	997102	997329	MSTRG.2922.1	NOTHING
scaffold_14	1003959	1004267	MSTRG.2923.1	NOTHING
scaffold_14	1106025	1106240	MSTRG.2926.1	NOTHING
scaffold_14	1110430	1110722	MSTRG.2927.1	NOTHING
scaffold_14	1115817	1131972	MSTRG.2928.1	NOTHING
scaffold_14	1613444	1613684	MSTRG.2931.1	NOTHING

scaffold_14	1393551	1393753	MSTRG.2933.1	NOTHING
scaffold_14	1461889	1462118	MSTRG.2936.1	NOTHING
scaffold_14	1577244	1577457	MSTRG.2938.1	NOTHING
scaffold_14	1642569	1642822	MSTRG.2940.1	NOTHING
scaffold_14	1807337	1808039	MSTRG.2941.1	NOTHING
scaffold_14	1810032	1810268	MSTRG.2943.1	NOTHING
scaffold_14	1810621	1811166	MSTRG.2944.1	NOTHING
scaffold_14	3108107	3114536	MSTRG.2947.1	NOTHING
scaffold_14	3194208	3194428	MSTRG.2949.1	NOTHING
scaffold_14	3198664	3198866	MSTRG.2950.1	NOTHING
scaffold_14	2363785	2372308	MSTRG.2952.1	NOTHING
scaffold_14	2383684	2389779	MSTRG.2953.1	NOTHING
scaffold_14	2414013	2415709	MSTRG.2954.1	NOTHING
scaffold_14	3735410	3735614	MSTRG.2959.1	NOTHING
scaffold_14	3654036	3659428	MSTRG.2962.1	NOTHING
scaffold_14	3817402	3817784	MSTRG.2963.1	NOTHING
scaffold_14	4320073	4320489	MSTRG.2967.1	NOTHING
scaffold_14	4317129	4317522	MSTRG.2969.1	NOTHING
scaffold_14	4319390	4319627	MSTRG.2972.1	NOTHING
scaffold_14	4321271	4321655	MSTRG.2973.1	NOTHING
scaffold_14	6176621	6176839	MSTRG.2977.1	NOTHING
scaffold_14	6171382	6171623	MSTRG.2978.1	NOTHING
scaffold_14	6178866	6179087	MSTRG.2979.1	NOTHING
scaffold_14	7075780	7141664	MSTRG.2983.2	NOTHING
scaffold_14	7217920	7224676	MSTRG.2986.5	NOTHING
scaffold_14	7223152	7224676	MSTRG.2986.7	NOTHING
scaffold_14	7522774	7523014	MSTRG.2990.1	NOTHING
scaffold_14	7525384	7525651	MSTRG.2991.1	NOTHING
scaffold_14	7526994	7527249	MSTRG.2992.1	NOTHING
scaffold_14	7564679	7580049	MSTRG.2993.1	NOTHING
scaffold_14	7797079	7800085	MSTRG.2996.4	NOTHING
scaffold_14	7794979	7796926	MSTRG.2997.1	NOTHING
scaffold_14	7807425	7828791	MSTRG.2998.1	NOTHING
scaffold_14	7807460	7832640	MSTRG.2998.2	NOTHING
scaffold_14	7837873	7838238	MSTRG.2999.1	NOTHING
scaffold_14	8082506	8082727	MSTRG.3005.1	NOTHING
scaffold_14	8085835	8086066	MSTRG.3006.1	NOTHING
scaffold_14	8155335	8155546	MSTRG.3008.1	NOTHING
scaffold_14	8339159	8342115	MSTRG.3011.1	NOTHING
scaffold_14	8565689	8565921	MSTRG.3017.1	NOTHING
scaffold_14	9442015	9442219	MSTRG.3020.1	NOTHING
scaffold_14	9681196	9681424	MSTRG.3022.1	NOTHING
scaffold_14	9487254	9502423	MSTRG.3025.1	NOTHING
scaffold_14	9826143	9826371	MSTRG.3026.1	NOTHING
scaffold_14	9900526	9900758	MSTRG.3028.1	NOTHING

scaffold_14	9917964	9918265	MSTRG.3029.1	NOTHING
scaffold_14	10705536	10705770	MSTRG.3040.1	NOTHING
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scaffold_14	13585773	13585988	MSTRG.3049.1	NOTHING
scaffold_14	13436359	13436681	MSTRG.3050.1	NOTHING
scaffold_14	13599131	13599354	MSTRG.3051.1	NOTHING
scaffold_14	13606950	13607304	MSTRG.3053.1	NOTHING
scaffold_14	13601556	13601760	MSTRG.3056.1	NOTHING
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scaffold_14	21784070	21784289	MSTRG.3102.1	NOTHING
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scaffold_14	26562340	26562553	MSTRG.3142.1	NOTHING
scaffold_14	26607913	26608120	MSTRG.3148.1	NOTHING
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scaffold_14	36406125	36406357	MSTRG.3177.1	NOTHING

scaffold_14	36942191	36942400	MSTRG.3181.1	NOTHING
scaffold_14	36944495	36963136	MSTRG.3182.1	NOTHING
scaffold_14	37016803	37019937	MSTRG.3184.5	NOTHING
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scaffold_14	37153785	37156376	MSTRG.3192.1	NOTHING
scaffold_14	37150757	37150987	MSTRG.3193.1	NOTHING
scaffold_14	38139583	38455603	MSTRG.3197.3	NOTHING
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scaffold_14	38745106	38745319	MSTRG.3203.1	NOTHING
scaffold_14	38747828	38748142	MSTRG.3204.1	NOTHING
scaffold_14	38782994	38783220	MSTRG.3205.1	NOTHING
scaffold_14	38828363	38828589	MSTRG.3208.1	NOTHING
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scaffold_14	47044705	47046732	MSTRG.3260.1	NOTHING
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scaffold_14	60434980	60435186	MSTRG.3311.1	NOTHING
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scaffold_14	63797437	64070744	MSTRG.3321.5	NOTHING
scaffold_14	63817381	64096348	MSTRG.3321.6	NOTHING
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scaffold_14	64034409	64037355	MSTRG.3324.1	NOTHING

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scaffold_14	8236604	8287374	MSTRG.3012.1	NPC
scaffold_14	8236716	8281135	MSTRG.3012.2	NPC
scaffold_14	8287256	8308034	MSTRG.3013.1	NPC
scaffold_14	8287396	8308034	MSTRG.3013.3	NPC
scaffold_14	8287396	8308034	MSTRG.3013.4	NPC
scaffold_14	8287396	8308034	RMC1_g2846.t1	NPC1
scaffold_14	7833523	7833796	MSTRG.3000.1	NR0B2
scaffold_14	1634317	1634550	MSTRG.2930.1	NSRP1
scaffold_14	49587083	49587303	MSTRG.3274.1	NWD2
scaffold_14	37409121	37409325	MSTRG.3189.1	OBSCN
scaffold_14	45405998	45451119	ONEC2_g3029.t1	ONEC2
scaffold_14	45458697	45458929	MSTRG.3241.1	ONECUT2
scaffold_14	45451452	45451821	MSTRG.3240.1	ONECUT2
scaffold_14	15799530	15863269	OSBL1_g2892.t1	OSBL1
scaffold_14	15798114	15906569	MSTRG.3076.1	OSBPL1A
scaffold_14	50927188	50948158	MSTRG.3283.1	OVAAL
scaffold_14	51003372	51023190	PAI2_g3066.t2	SERPINB2
scaffold_14	64929840	64930835	PAR6G_g3120.t1	PARD6G
scaffold_14	64929840	65027381	PAR6G_g3121.t1	PARD6G
scaffold_14	3199390	3199620	MSTRG.2957.1	PFKFB2
scaffold_14	49722087	49903621	PHLP1_g3055.t1	PHLPP1
scaffold_14	49721741	49945010	MSTRG.3280.1	PHLPP1
scaffold_14	5349491	5349863	PI3R5_g2821.t1	PI3R5
scaffold_14	36178313	36258889	PIAS2_g2977.t1	PIAS2
scaffold_14	36152867	36258889	MSTRG.3179.1	PIAS2
scaffold_14	36152867	36258889	MSTRG.3179.2	PIAS2
scaffold_14	64689227	64689946	PIGB_g3113.t1	PIGB
scaffold_14	49118099	49240508	MSTRG.3276.1	PIGN
scaffold_14	49118116	49242183	MSTRG.3276.2	PIGN
scaffold_14	49119760	49220789	PIGN_g3050.t1	PIGN
scaffold_14	31870411	32007416	PK3C3_g2958.t1	PIK3C3
scaffold_14	7521289	7544758	PLD3A_g2834.t1	PLD3A
scaffold_14	9447293	9483035	MSTRG.3023.1	PLXNB2
scaffold_14	9447293	9482679	MSTRG.3023.2	PLXNB2
scaffold_14	47412331	47416534	MSTRG.3266.1	PMAIP1
scaffold_14	42582801	42614932	MSTRG.3233.2	POLI
scaffold_14	3949624	4013711	PP4R1_g2813.t1	PP4R1

scaffold_14	35453256	35527371	PPIP2_g2970.t1	PPIP2
scaffold_14	3948398	4013711	MSTRG.2966.2	PPP4R1
scaffold_14	3949252	3962665	MSTRG.2966.3	PPP4R1
scaffold_14	3951946	3962665	MSTRG.2966.5	PPP4R1
scaffold_14	3947725	4013711	MSTRG.2966.1	PPP4R1
scaffold_14	3991258	4013390	MSTRG.2966.6	PPP4R1
scaffold_14	64640502	64682473	MSTRG.3327.2	PQLC1
scaffold_14	25793142	25797124	PR2B1_g2937.t1	PR2B1
scaffold_14	7528399	7544758	MSTRG.2989.2	PRELID3A
scaffold_14	9326830	9330086	P52K_g2852.t1	THAP12
scaffold_14	9326802	9330086	MSTRG.3021.1	PRKRIR
scaffold_14	7204007	7217918	MSTRG.2986.1	PSMG2
scaffold_14	7204046	7224676	MSTRG.2986.2	PSMG2
scaffold_14	7204072	7224676	MSTRG.2986.4	PSMG2
scaffold_14	8023441	8053301	PSMG2_g2844.t1	PSMG2
scaffold_14	60391489	60400218	PTGR3_g3091.t1	PTGR3
scaffold_14	45512938	45513202	MSTRG.3242.1	PTPRC
scaffold_14	2168831	2937376	MSTRG.2951.1	PTPRM
scaffold_14	2168842	2937376	MSTRG.2951.2	PTPRM
scaffold_14	2169213	2684489	MSTRG.2951.3	PTPRM
scaffold_14	2169213	2502785	PTPRM_g2803.t1	PTPRM
scaffold_14	3380907	3406631	MSTRG.2955.1	RAB12
scaffold_14	3384487	3406631	MSTRG.2955.3	RAB12
scaffold_14	3382033	3406631	RAB12_g2808.t1	RAB12
scaffold_14	4109648	4233399	RAB31_g2814.t1	RAB31
scaffold_14	4234105	4234443	MSTRG.2970.1	RAB31
scaffold_14	31401649	31401915	MSTRG.3154.1	RAD54B
scaffold_14	3874794	3933303	MSTRG.2965.1	RALBP1
scaffold_14	37078733	37086972	MSTRG.3186.2	RANBP10
scaffold_14	37078737	37086972	MSTRG.3186.3	RANBP10
scaffold_14	3868325	3868553	MSTRG.2964.1	RAPGEF4
scaffold_14	64121199	64249074	MSTRG.3320.1	RASD1
scaffold_14	43076640	43134462	RB27B_g3021.t1	RB27B
scaffold_14	8715712	8802378	MSTRG.3019.1	RBBP8
scaffold_14	8715758	8802087	MSTRG.3019.3	RBBP8
scaffold_14	8715712	8802378	MSTRG.3019.2	RBBP8
scaffold_14	64756768	64769323	MSTRG.3329.1	RBFA
scaffold_14	64756794	64769323	MSTRG.3329.2	RBFA
scaffold_14	3906328	3933303	RBP1_g2812.t1	RBP1
scaffold_14	19365025	19400777	MSTRG.3105.1	RC3H1
scaffold_14	1393228	1584842	RHG28_g2800.t1	RHG28
scaffold_14	8326276	8357256	RIOK3_g2847.t1	RIOK3
scaffold_14	32581145	32809879	RIT2_g2959.t2	RIT2
scaffold_14	38491897	38494872	RL17_g2990.t1	RPL17
scaffold_14	22900302	22934000	RN125_g2920.t1	RN125

scaffold_14	48986678	48987289	RN152_g3049.t1	RN152
scaffold_14	35732144	35835626	RN165_g2974.t1	ARK2C
scaffold_14	22958683	22982779	MEP1B_g2922.t1	RNF138
scaffold_14	22957980	22963492	TBC9B_g2921.t1	RNF138
scaffold_14	22957822	22982779	MSTRG.3115.1	RNF138
scaffold_14	22957835	22982779	MSTRG.3115.2	RNF138
scaffold_14	22958604	22982779	MSTRG.3115.4	RNF138
scaffold_14	4318117	4318969	MSTRG.2974.1	RNMT
scaffold_14	6179418	6210258	MSTRG.2981.1	RNMT
scaffold_14	39727098	39736091	RNZ1_g3003.t1	ELAC1
scaffold_14	10387817	10538755	MSTRG.3037.1	ROCK1
scaffold_14	10387887	10505580	MSTRG.3037.2	ROCK1
scaffold_14	10388739	10538755	ROCK1_g2862.t1	ROCK1
scaffold_14	26374643	26461095	RPR1A_g2946.t1	RPRD1A
scaffold_14	26371414	26372596	MSTRG.3138.1	RPRD1A
scaffold_14	26413318	26461095	MSTRG.3140.2	RPRD1A
scaffold_14	38690705	38691097	RS24_g2992.t1	RPS24
scaffold_14	35143004	35143405	RS9_g2966.t1	RS9
scaffold_14	56194509	56308291	MSTRG.3295.1	RTTN
scaffold_14	56213914	56354104	MSTRG.3295.3	RTTN
scaffold_14	56194741	56381186	RTTN_g3077.t1	RTTN
scaffold_14	26483366	26501635	S39A6_g2947.t1	SLC39A6
scaffold_14	64618039	64689202	S66A2_g3112.t1	SLC66A2
scaffold_14	46835497	46846458	SC11C_g3039.t1	SC11C
scaffold_14	61451046	61451390	SCRB2_g3095.t1	SCARB2
scaffold_14	46835407	46848353	MSTRG.3253.1	SEC11C
scaffold_14	6967242	6992324	SEH1_g2828.t1	SEH1
scaffold_14	6964986	6992324	MSTRG.2984.6	SEH1L
scaffold_14	50896208	50924880	MSTRG.3279.1	SERPINB7
scaffold_14	51058113	51075170	MSTRG.3289.1	SERPINB8
scaffold_14	34208460	34544531	SETBP_g2963.t1	SETBP1
scaffold_14	36046376	36105890	SIA8E_g2976.t1	ST8SIA5
scaffold_14	15621274	15621490	MSTRG.3073.1	SIX1
scaffold_14	39277996	39295286	SKA1_g2999.t1	SKA1
scaffold_14	26482239	26503847	MSTRG.3141.1	SLC39A6
scaffold_14	38480789	38481095	MSTRG.3198.1	SLC6A16
scaffold_14	36991745	37079026	MSTRG.3184.1	SMAD2
scaffold_14	36991745	37079026	MSTRG.3184.2	SMAD2
scaffold_14	37078579	37086972	MSTRG.3186.1	SMAD2
scaffold_14	37001515	37054033	SMAD2_g2983.t1	SMAD2
scaffold_14	39774609	39835920	MSTRG.3216.2	SMAD4
scaffold_14	39790291	39835920	SMAD4_g3005.t1	SMAD4
scaffold_14	37967396	37996098	SMAD7_g2987.t1	SMAD7
scaffold_14	12925776	13054712	MSTRG.3047.1	SMCHD1
scaffold_14	9921041	9930872	SMD1_g2858.t1	SMD1

scaffold_14	12926163	13054712	SMHD1_g2875.t1	SMCHD1
scaffold_14	4817307	4840798	SNAG_g2819.t1	SNAG
scaffold_14	9930950	9931237	LORF2_g2859.t1	SNRPD1
scaffold_14	56408264	56443842	MSTRG.3294.1	SOCS6
scaffold_14	56438454	56441033	SOCS6_g3078.t1	SOCS6
scaffold_14	50464009	50484448	SPB13_g3060.t2	SPB13
scaffold_14	50328953	50393721	SPB5_g3059.t1	SERPINB5
scaffold_14	50900888	50924880	SPB7_g3064.t1	SERPINB7
scaffold_14	50930472	50948158	SPB7_g3065.t1	SERPINB7
scaffold_14	7261116	7479927	SPIR1_g2832.t1	SPIRE1
scaffold_14	7497349	7509767	SPIR1_g2833.t3	SPIRE1
scaffold_14	7261116	7511527	MSTRG.2987.1	SPIRE1
scaffold_14	17606508	17689424	MSTRG.3087.1	SS18
scaffold_14	17607841	17689424	MSTRG.3087.2	SS18
scaffold_14	17609549	17689424	SSXT_g2901.t1	SSXT
scaffold_14	36036832	36037032	MSTRG.3170.1	ST8SIA5
scaffold_14	36037585	36038340	MSTRG.3171.1	ST8SIA5
scaffold_14	36045049	36045261	MSTRG.3173.1	ST8SIA5
scaffold_14	36046073	36049981	MSTRG.3174.1	ST8SIA5
scaffold_14	42631843	42653278	STAR6_g3012.t1	STARD6
scaffold_14	64739701	64739960	MSTRG.3333.1	STX8
scaffold_14	45560213	45575804	SYNC_g3031.t1	SYNC
scaffold_14	39945084	39974439	SYTC2_g3007.t1	TARS3
scaffold_14	51548434	51548772	SYYM_g3067.t1	YARS2
scaffold_14	17833853	17849404	MSTRG.3088.3	TAF4B
scaffold_14	17893154	17893605	MSTRG.3097.1	TAF4B
scaffold_14	17767603	17892255	TAF4B_g2903.t1	TAF4B
scaffold_14	7619290	7637011	TBB6_g2836.t1	TBB6
scaffold_14	39891501	39891850	MSTRG.3218.1	TBCC
scaffold_14	43422464	43771525	MSTRG.3239.1	TCF4
scaffold_14	43425241	43771525	MSTRG.3239.2	TCF4
scaffold_14	43425272	43596962	MSTRG.3239.3	TCF4
scaffold_14	13588211	13598661	MSTRG.3055.2	TGIF1
scaffold_14	13591075	13598661	TGIF1_g2880.t1	TGIF1
scaffold_14	13588211	13598661	MSTRG.3055.1	TGIF1
scaffold_14	16325723	16332241	THAS_g2897.t1	THAS
scaffold_14	38749435	38782343	THIM_g2993.t1	THIM
scaffold_14	10627720	10682404	THOC1_g2864.t1	THOC1
scaffold_14	39277137	39295286	MSTRG.3214.1	TIGD1
scaffold_14	59431432	59443190	MSTRG.3299.1	TIMM21
scaffold_14	59431505	59440896	MSTRG.3299.2	TIMM21
scaffold_14	59431589	59443190	MSTRG.3299.3	TIMM21
scaffold_14	59431791	59438925	MSTRG.3299.4	TIMM21
scaffold_14	8362675	8475875	TM241_g2848.t1	TM241
scaffold_14	8486077	8486386	MSTRG.3015.1	TMEM241

scaffold_14	55039277	55083171	MSTRG.3293.1	TMX3
scaffold_14	55039277	55083171	MSTRG.3293.2	TMX3
scaffold_14	49398933	49427121	MSTRG.3272.2	TNFRSF11A
scaffold_14	49404047	49429356	MSTRG.3272.3	TNFRSF11A
scaffold_14	49376186	49427121	TNR11_g3052.t1	TNFRSF11A
scaffold_14	27113683	27178901	TPGS2_g2951.t1	TPGS2
scaffold_14	22759761	22845673	TPPC8_g2919.t1	TPPC8
scaffold_14	65028027	65035103	TRXR3_g3123.t1	TXNRD3
scaffold_14	32153753	32154543	MSTRG.3155.1	TS
scaffold_14	60403023	60478015	TSH1_g3092.t1	TSH1
scaffold_14	60478406	60478864	MSTRG.3309.1	TSHZ1
scaffold_14	60401975	60402692	MSTRG.3313.1	TSHZ1
scaffold_14	15665880	15769700	TT39C_g2890.t1	TTC39C
scaffold_14	15665219	15776969	MSTRG.3074.1	TTC39C
scaffold_14	15665278	15773443	MSTRG.3074.2	TTC39C
scaffold_14	15665880	15776969	MSTRG.3074.3	TTC39C
scaffold_14	15709979	15758967	MSTRG.3074.5	TTC39C
scaffold_14	7618364	7637011	MSTRG.2995.1	TUBB6
scaffold_14	7618863	7626796	MSTRG.2995.2	TUBB6
scaffold_14	3759304	3815900	TWSG1_g2811.t1	TWSG1
scaffold_14	3757075	3815900	MSTRG.2960.1	TWSG1
scaffold_14	64718821	64733130	TXN4A_g3115.t1	TXNL4A
scaffold_14	44666083	44696790	TXNL1_g3025.t1	TXNL1
scaffold_14	64718123	64733598	MSTRG.3325.1	TXNL4A
scaffold_14	64718595	64733532	MSTRG.3325.2	TXNL4A
scaffold_14	11042090	11052317	TYSY_g2868.t1	TYSY
scaffold_14	13709414	13723909	UB2J1_g2882.t1	UB2J1
scaffold_14	10583903	10627708	UBP14_g2863.t1	USP14
scaffold_14	10580049	10627708	MSTRG.3038.1	USP14
scaffold_14	37152852	37153113	MSTRG.3191.1	USP25
scaffold_14	36050887	36051138	MSTRG.3175.1	USP43
scaffold_14	35183612	35208237	UT1_g2967.t1	UT1
scaffold_14	4278542	4316270	VAPA_g2816.t1	VAPA
scaffold_14	50292640	50321237	MSTRG.3282.1	VPS4B
scaffold_14	50294369	50321237	VPS4B_g3058.t1	VPS4B
scaffold_14	44732982	44876280	WDR7_g3026.t1	WDR7
scaffold_14	44921121	45071567	WDR7_g3027.t1	WDR7
scaffold_14	44711328	45072058	MSTRG.3243.1	WDR7
scaffold_14	44711328	45072058	MSTRG.3243.2	WDR7
scaffold_14	44711331	45072058	MSTRG.3243.3	WDR7
scaffold_14	11100213	11124138	YES_g2870.t1	YES
scaffold_14	11097451	11170254	MSTRG.3042.2	YES1
scaffold_14	11097321	11170254	MSTRG.3042.1	YES1
scaffold_14	60388297	60388628	MSTRG.3304.1	ZADH2
scaffold_14	60391615	60392716	MSTRG.3308.1	ZADH2

scaffold_14	15171070	15173883	ZBT14_g2886.t1	ZBTB14
scaffold_14	37162340	37309349	ZBT7C_g2985.t1	ZBTB7C
scaffold_14	15170970	15175622	MSTRG.3065.1	ZBTB14
scaffold_14	37174746	37446355	MSTRG.3188.2	ZBTB7C
scaffold_14	49614028	49614243	MSTRG.3275.1	ZCCHC2
scaffold_14	49561689	49613755	ZCHC2_g3053.t1	ZCCHC2
scaffold_14	61738067	61855452	ZN236_g3096.t1	ZNF236
scaffold_14	25801510	25812263	ZN271_g2938.t1	ZNF271P
scaffold_14	25856906	25860586	ZN396_g2940.t1	ZNF396
scaffold_14	59849858	59862346	ZN407_g3089.t1	ZNF407
scaffold_14	61408331	61471596	ZN516_g3094.t1	ZNF516
scaffold_14	16736328	17061236	ZN521_g2899.t1	ZNF521
scaffold_14	16891274	16894882	ZN521_g2900.t1	ZNF521
scaffold_14	46651789	46712600	ZN532_g3037.t1	ZNF532
scaffold_14	61738049	61855955	MSTRG.3319.1	ZNF236
scaffold_14	18096860	18097118	MSTRG.3092.1	ZNF341
scaffold_14	25854569	25864089	MSTRG.3133.1	ZNF396
scaffold_14	25854569	25864089	MSTRG.3133.2	ZNF396
scaffold_14	25766695	25777321	MSTRG.3127.1	ZNF397
scaffold_14	25766981	25775401	MSTRG.3127.2	ZNF397
scaffold_14	25777397	25792938	MSTRG.3128.1	ZNF397
scaffold_14	25800663	25801410	MSTRG.3130.1	ZNF397
scaffold_14	59818150	60275909	MSTRG.3305.1	ZNF407
scaffold_14	61408347	61425025	MSTRG.3316.2	ZNF516
scaffold_14	61407878	61408102	MSTRG.3315.1	ZNF516
scaffold_14	46604343	46712600	MSTRG.3251.1	ZNF532
scaffold_14	46604356	46702738	MSTRG.3251.4	ZNF532
scaffold_14	46604427	46712600	MSTRG.3251.5	ZNF532
scaffold_14	46604343	46712600	MSTRG.3251.2	ZNF532
scaffold_14	46604349	46712600	MSTRG.3251.3	ZNF532
scaffold_14	46605659	46712600	MSTRG.3251.6	ZNF532
scaffold_14	21190353	21198703	MSTRG.3101.1	ZNF804A
scaffold_15	24946225	25025827	MSTRG.3485.2	ABCC5
scaffold_15	24945665	25024898	MSTRG.3485.1	ABCC5
scaffold_15	24995670	25025827	MSTRG.3485.4	ABCC5
scaffold_15	25159905	25168865	ABCF3_g3259.t1	ABCF3
scaffold_15	25159907	25173238	MSTRG.3490.2	ABCF3
scaffold_15	49606649	49724752	MSTRG.3683.3	ABHD10
scaffold_15	49604262	49725533	MSTRG.3683.1	ABHD10
scaffold_15	49604262	49618655	ABHDA_g3472.t1	ABHD10
scaffold_15	58787977	58798428	MSTRG.3731.2	ABI3BP
scaffold_15	58789781	58795921	MSTRG.3731.3	ABI3BP
scaffold_15	34609684	34759315	ACAP2_g3336.t1	ACAP2
scaffold_15	34605277	34608455	MSTRG.3539.1	ACAP2
scaffold_15	34608827	34759315	MSTRG.3545.1	ACAP2

scaffold_15	36964287	36985290	ACK1_g3365.t1	TNK2
scaffold_15	21209721	21238806	ACL6A_g3224.t1	ACTL6A
scaffold_15	27422770	27424747	ADIPO_g3298.t1	ADIPOQ
scaffold_15	43078209	43085123	ADPRH_g3428.t1	ADPRH
scaffold_15	43073978	43084927	MSTRG.3625.1	ADPRH
scaffold_15	43073978	43083697	MSTRG.3625.2	ADPRH
scaffold_15	43073979	43084927	MSTRG.3625.3	ADPRH
scaffold_15	24110017	24110281	MSTRG.3471.1	AGMAT
scaffold_15	55013035	55197622	MSTRG.3715.1	ALCAM
scaffold_15	25212721	25218599	ALG3_g3261.t1	ALG3
scaffold_15	25212129	25218599	MSTRG.3496.1	ALG3
scaffold_15	49602644	49603448	MSTRG.3681.1	ANKRD33
scaffold_15	25150785	25157981	AP2M1_g3258.t1	AP2M1
scaffold_15	25148646	25157981	MSTRG.3489.1	AP2M1
scaffold_15	25148646	25157981	MSTRG.3489.2	AP2M1
scaffold_15	25148646	25157981	MSTRG.3489.3	AP2M1
scaffold_15	25148650	25157981	MSTRG.3489.4	AP2M1
scaffold_15	34834464	34850701	APOD_g3338.t1	APOD
scaffold_15	34834409	34854401	MSTRG.3544.1	APOD
scaffold_15	64108336	64187583	AR13B_g3561.t1	ARL13B
scaffold_15	58119800	58129075	F172B_g3513.t1	ARB2BP
scaffold_15	43215926	43324605	MSTRG.3633.1	ARHGAP31
scaffold_15	43215936	43324605	MSTRG.3633.2	ARHGAP31
scaffold_15	43213578	43213848	MSTRG.3629.1	ARHGAP31
scaffold_15	43214948	43215386	MSTRG.3630.1	ARHGAP31
scaffold_15	43219161	43220778	MSTRG.3633.5	ARHGAP31
scaffold_15	61218148	61255136	MSTRG.3767.1	ARL6
scaffold_15	14437843	14438057	MSTRG.3424.1	BMAL2
scaffold_15	47938876	48034191	ASTRC_g3450.t1	GRAMD1C
scaffold_15	23963343	24063510	AT11B_g3239.t1	ATP11B
scaffold_15	33845824	33927362	AT133_g3330.t1	EGR4
scaffold_15	49090251	49115676	ATG3_g3464.t1	ATG3
scaffold_15	49089802	49115676	MSTRG.3675.1	ATG3
scaffold_15	49089839	49100455	MSTRG.3675.2	ATG3
scaffold_15	49096292	49101865	MSTRG.3675.4	ATG3
scaffold_15	24065652	24066092	MSTRG.3460.1	ATP11B
scaffold_15	33842801	33902883	MSTRG.3538.4	ATP13A3
scaffold_15	33842558	33927815	MSTRG.3538.1	ATP13A3
scaffold_15	33842558	33927815	MSTRG.3538.2	ATP13A3
scaffold_15	33842635	33902883	MSTRG.3538.3	ATP13A3
scaffold_15	28524807	29190025	MSTRG.3525.6	ATP1A1
scaffold_15	48063035	48123793	MSTRG.3657.1	ATP6V1A
scaffold_15	48063035	48123793	MSTRG.3657.2	ATP6V1A
scaffold_15	829766	834223	MSTRG.3359.2	AVL9
scaffold_15	5143707	5144736	B3GL1_g3160.t1	B3GALNT1

scaffold_15	24360521	24361736	B3GN5_g3244.t1	B3GNT5
scaffold_15	24360389	24361736	B3GN5_g3244.t2	B3GNT5
scaffold_15	24363491	24364159	MSTRG.3475.1	B3GNT5
scaffold_15	43354246	43380945	MSTRG.3635.1	B4GALT4
scaffold_15	43354280	43380945	MSTRG.3635.3	B4GALT4
scaffold_15	43354246	43380945	MSTRG.3635.2	B4GALT4
scaffold_15	43364548	43380945	B4GT4_g3435.t1	B4GALT4
scaffold_15	53163720	53254301	BBX_g3497.t1	BBX
scaffold_15	53158075	53419451	MSTRG.3707.2	BBX
scaffold_15	53158070	53163647	MSTRG.3706.1	BBX
scaffold_15	53158075	53419451	MSTRG.3707.1	BBX
scaffold_15	53158090	53419451	MSTRG.3707.3	BBX
scaffold_15	53163764	53419451	MSTRG.3707.5	BBX
scaffold_15	53163764	53419451	MSTRG.3707.6	BBX
scaffold_15	9063058	9063433	MSTRG.3390.1	BCHE
scaffold_15	28151021	28174824	MSTRG.3522.1	BCL6
scaffold_15	64033957	64034682	FAIM3_g3559.t1	BNIP5
scaffold_15	48504925	48539012	BOC_g3457.t1	BOC
scaffold_15	48574321	48579760	MSTRG.3664.2	BOC
scaffold_15	48504305	48574362	MSTRG.3663.1	BOC
scaffold_15	48504387	48539012	MSTRG.3663.2	BOC
scaffold_15	48504391	48539012	MSTRG.3663.3	BOC
scaffold_15	48574321	48579760	MSTRG.3664.1	BOC
scaffold_15	25956369	25969144	MSTRG.3503.2	C3ORF70
scaffold_15	35409377	35409607	MSTRG.3547.1	C3ORF84
scaffold_15	9179046	9179454	MSTRG.3392.1	C9ORF40
scaffold_15	54689350	54903344	CBLB_g3501.t1	CBLB
scaffold_15	54689350	54938266	MSTRG.3711.1	CBLB
scaffold_15	54735968	54792264	MSTRG.3711.3	CBLB
scaffold_15	54800350	54833609	MSTRG.3711.5	CBLB
scaffold_15	54837629	54857916	MSTRG.3711.6	CBLB
scaffold_15	25954884	26046741	CC070_g3276.t1	C3ORF70
scaffold_15	527953	528630	CC080_g3132.t1	C3ORF80
scaffold_15	47851517	47922004	CC191_g3448.t1	CCDC191
scaffold_15	39088153	39126338	CCD14_g3385.t1	CCDC14
scaffold_15	39088153	39126338	CCD14_g3385.t2	CCDC14
scaffold_15	22083718	22124966	CCD39_g3230.t1	CCDC39
scaffold_15	31246637	31308557	CCD50_g3316.t1	CCDC50
scaffold_15	49018537	49051365	CCD80_g3462.t1	CCDC80
scaffold_15	49018171	49051365	CCD80_g3462.t2	CCDC80
scaffold_15	31245940	31312787	MSTRG.3533.2	CCDC50
scaffold_15	31245940	31312787	MSTRG.3533.1	CCDC50
scaffold_15	49016947	49051365	MSTRG.3671.1	CCDC80
scaffold_15	49044290	49051365	MSTRG.3671.4	CCDC80
scaffold_15	27592464	27592681	MSTRG.3521.1	CCL22

scaffold_15	3295179	3307921	CCNL1_g3153.t1	CCNL1
scaffold_15	3283396	3307921	MSTRG.3372.1	CCNL1
scaffold_15	3294672	3307921	MSTRG.3372.2	CCNL1
scaffold_15	3294672	3307921	MSTRG.3372.3	CCNL1
scaffold_15	3295024	3307921	MSTRG.3372.4	CCNL1
scaffold_15	3295179	3307921	MSTRG.3372.5	CCNL1
scaffold_15	49306632	49309448	MSTRG.3672.2	CD200
scaffold_15	52868908	52912007	CD47_g3495.t1	CD47
scaffold_15	52868860	52912007	MSTRG.3705.1	CD47
scaffold_15	52868860	52912007	MSTRG.3705.2	CD47
scaffold_15	43098250	43115282	CD80_g3429.t1	CD80
scaffold_15	41140280	41167479	CD86_g3406.t1	CD86
scaffold_15	52074445	52080207	MSTRG.3686.1	CDKN2AIP
scaffold_15	36421754	36422840	CEP19_g3351.t2	CEP19
scaffold_15	36422959	36423179	MSTRG.3557.1	CEP19
scaffold_15	53149845	53150068	MSTRG.3702.1	CEP70
scaffold_15	57990425	58015976	CEP97_g3509.t1	CEP97
scaffold_15	57986221	58025012	MSTRG.3718.1	CEP97
scaffold_15	48404701	48500337	CFA44_g3456.t1	CFAP44
scaffold_15	42879456	42908780	CFA91_g3425.t1	CFAP91
scaffold_15	42931991	42987848	CFA91_g3425.t2	CFAP91
scaffold_15	9063543	9127348	CHLE_g3173.t1	BCHE
scaffold_15	25329415	25337885	CHRD_g3271.t1	CHRD
scaffold_15	52424088	52457893	CIP2A_g3490.t1	CIP2A
scaffold_15	25298765	25313024	CLCN2_g3268.t1	CLCN2
scaffold_15	25289472	25298568	MSTRG.3500.2	CLCN2
scaffold_15	25289781	25298568	MSTRG.3500.3	CLCN2
scaffold_15	30364826	30378340	CLD1_g3310.t1	CLDN1
scaffold_15	13134999	13148753	CLD11_g3196.t1	CLDN11
scaffold_15	60632442	60638895	CLDN1_g3538.t1	CLDN1
scaffold_15	60632376	60638895	CLDN1_g3538.t2	CLDN1
scaffold_15	13149150	13149350	MSTRG.3417.1	CLDN11
scaffold_15	60631034	60638895	MSTRG.3757.1	CLDND1
scaffold_15	36627817	36628018	MSTRG.3560.1	CLHC1
scaffold_15	59253561	59307385	CMS1_g3528.t1	CMSS1
scaffold_15	59252215	59610486	MSTRG.3747.1	CMSS1
scaffold_15	59253340	59291669	MSTRG.3747.2	CMSS1
scaffold_15	59631993	59768918	CO8A1_g3531.t1	COL8A1
scaffold_15	1870787	1878886	COMD5_g3142.t1	COMMD5
scaffold_15	26638633	26638848	MSTRG.3515.1	COMMD9
scaffold_15	42995653	43008126	MSTRG.3623.1	COX17
scaffold_15	33785139	33786785	CPN2_g3327.t1	CPN2
scaffold_15	33784868	33794782	MSTRG.3535.1	CPN2
scaffold_15	61128727	61195401	CRBG3_g3555.t1	CRYBG3
scaffold_15	61103247	61195401	MSTRG.3759.1	CRYBG3

scaffold_15	61128727	61195401	MSTRG.3759.2	CRYBG3
scaffold_15	50684298	50684930	CTGE9_g3480.t1	CTAGE9
scaffold_15	60326576	60401913	DCBD2_g3533.t2	DCBLD2
scaffold_15	24115637	24143518	DCNL1_g3240.t1	DCUN1D1
scaffold_15	24110559	24143131	MSTRG.3470.1	DCUN1D1
scaffold_15	24112230	24143131	MSTRG.3470.2	DCUN1D1
scaffold_15	26847801	27020258	DGKG_g3287.t1	DGKG
scaffold_15	58906040	58906293	MSTRG.3730.1	DHODH
scaffold_15	40117380	40186250	DIRC2_g3392.t1	SLC49A4
scaffold_15	40117380	40187229	DIRC2_g3392.t2	SLC49A4
scaffold_15	40106358	40186835	MSTRG.3599.1	SLC49A4
scaffold_15	35250337	35407388	DLG1_g3340.t1	DLG1
scaffold_15	35124049	35407388	MSTRG.3548.2	DLG1
scaffold_15	35124759	35407388	MSTRG.3548.6	DLG1
scaffold_15	35123519	35375378	MSTRG.3548.1	DLG1
scaffold_15	35124049	35407388	MSTRG.3548.3	DLG1
scaffold_15	35124628	35407388	MSTRG.3548.4	DLG1
scaffold_15	35124759	35407388	MSTRG.3548.5	DLG1
scaffold_15	53030089	53030303	MSTRG.3699.1	DLGAP4
scaffold_15	27213848	27231123	MSTRG.3517.1	DNAJB11
scaffold_15	22365621	22369964	MSTRG.3458.1	DNAJC19
scaffold_15	41583924	41674854	DPOLQ_g3413.t1	POLQ
scaffold_15	37372737	37413731	DRC9_g3372.t1	IQCG
scaffold_15	25130654	25145697	DVL3_g3257.t1	DVL3
scaffold_15	25130390	25147126	MSTRG.3487.1	DVL3
scaffold_15	25130702	25139111	MSTRG.3487.3	DVL3
scaffold_15	53569402	53654073	DYM_g3499.t1	DYM
scaffold_15	36738214	36758484	DYT2B_g3360.t1	DYNLT2B
scaffold_15	52327410	52423943	MSTRG.3694.2	DVL3
scaffold_15	52327462	52423943	MSTRG.3694.3	DVL3
scaffold_15	52355614	52423943	MSTRG.3694.7	DVL3
scaffold_15	52329140	52398646	DZIP3_g3489.t1	DZIP3
scaffold_15	52327410	52423943	MSTRG.3694.1	DZIP3
scaffold_15	52327468	52423943	MSTRG.3694.4	DZIP3
scaffold_15	52329140	52423943	MSTRG.3694.5	DZIP3
scaffold_15	52362574	52423943	MSTRG.3694.8	DZIP3
scaffold_15	41325970	41370151	EAF2_g3409.t1	EAF2
scaffold_15	25236635	25249380	ECE2_g3264.t1	ECE2
scaffold_15	26081545	26121718	ECHP_g3277.t1	EHHADH
scaffold_15	15190294	15262837	MSTRG.3432.3	ECT2
scaffold_15	15190294	15262837	MSTRG.3432.4	ECT2
scaffold_15	15193601	15262837	MSTRG.3432.6	ECT2
scaffold_15	15190274	15262837	MSTRG.3432.1	ECT2
scaffold_15	25219316	25225329	EFMT4_g3262.t1	EEF1AKMT4
scaffold_15	25117512	25125793	EI2BE_g3256.t1	EIF2B5

scaffold_15	25117523	25125793	MSTRG.3483.2	EIF2B5
scaffold_15	27367888	27374705	MSTRG.3519.1	EIF4A2
scaffold_15	27368369	27374705	MSTRG.3519.2	EIF4A2
scaffold_15	27368369	27374705	MSTRG.3519.3	EIF4A2
scaffold_15	27368376	27374705	MSTRG.3519.4	EIF4A2
scaffold_15	27368376	27374705	MSTRG.3519.5	EIF4A2
scaffold_15	27374461	27387764	MSTRG.3520.1	EIF4A2
scaffold_15	25268869	25289139	MSTRG.3498.3	EIF4G1
scaffold_15	25268849	25289139	MSTRG.3498.2	EIF4G1
scaffold_15	25268909	25289139	MSTRG.3498.4	EIF4G1
scaffold_15	25268849	25289139	MSTRG.3498.1	EIF4G1
scaffold_15	13537556	13554489	MSTRG.3420.1	EIF5A2
scaffold_15	61270451	62063465	EPHA6_g3557.t1	EPHA6
scaffold_15	61517280	61699072	MSTRG.3769.3	EPHA6
scaffold_15	61255175	61287787	MSTRG.3768.1	EPHA6
scaffold_15	61256139	61287787	MSTRG.3768.3	EPHA6
scaffold_15	61256239	61287787	MSTRG.3768.5	EPHA6
scaffold_15	61271708	61287787	MSTRG.3768.6	EPHA6
scaffold_15	61262921	61272827	MSTRG.3769.1	EPHA6
scaffold_15	61901858	61949442	MSTRG.3769.4	EPHA6
scaffold_15	25496986	25515596	EPHB3_g3273.t1	EPHB3
scaffold_15	26758276	26813606	ETV5_g3286.t1	ETV5
scaffold_15	25291477	25298568	F131A_g3267.t1	FAM131A
scaffold_15	25291450	25298568	F131A_g3267.t2	FAM131A
scaffold_15	40904874	40927696	F162A_g3402.t1	FAM162A
scaffold_15	34093411	34094685	FA43A_g3333.t1	FA43A
scaffold_15	25289472	25298568	MSTRG.3500.1	FAM131A
scaffold_15	40904741	40927696	MSTRG.3607.1	FAM162A
scaffold_15	2952461	2952669	MSTRG.3366.1	FAM188B
scaffold_15	36523141	36535230	FBSP1_g3353.t1	FBXO45
scaffold_15	36521322	36521721	MSTRG.3559.1	FBXO45
scaffold_15	36520770	36521003	MSTRG.3563.1	FBXO45
scaffold_15	31891248	32125142	FGF12_g3317.t1	FGF12
scaffold_15	59492571	59599912	FIL1L_g3529.t1	FILIP1L
scaffold_15	59568249	59610486	MSTRG.3747.4	FILIP1L
scaffold_15	14627281	14893284	FND3B_g3204.t1	FND3B
scaffold_15	14557324	14889210	MSTRG.3426.1	FND3CB
scaffold_15	14557324	14889210	MSTRG.3426.2	FNDC3B
scaffold_15	22293934	22359343	FXR1_g3233.t1	FXR1
scaffold_15	37238282	37262955	MSTRG.3577.6	FYTTD1
scaffold_15	37228227	37371614	MSTRG.3577.1	FYTTD1
scaffold_15	37237779	37371614	MSTRG.3577.3	FYTTD1
scaffold_15	37238276	37262955	MSTRG.3577.4	FYTTD1
scaffold_15	37238282	37262955	MSTRG.3577.5	FYTTD1
scaffold_15	5124559	5124819	MSTRG.3381.1	GAB1

scaffold_15	3308761	3308963	MSTRG.3371.1	GALNT7
scaffold_15	37829630	37921968	MSTRG.3585.5	GALNT7
scaffold_15	30876468	30883306	GEMC1_g3313.t1	GMNC
scaffold_15	659671	711062	MSTRG.3360.1	GFM1
scaffold_15	14932467	14935750	GHSR_g3205.t1	GHSR
scaffold_15	21076137	21140805	MSTRG.3450.1	GNB4
scaffold_15	41447734	41511915	GOGB1_g3411.t1	GOGB1
scaffold_15	41516330	41539326	GOGB1_g3411.t2	GOGB1
scaffold_15	41434278	41511915	MSTRG.3613.1	GOLGB1
scaffold_15	41436533	41511915	MSTRG.3613.2	GOLGB1
scaffold_15	11050971	11125536	GOLI4_g3180.t1	GOLIM4
scaffold_15	11049228	11125536	MSTRG.3403.1	GOLIM4
scaffold_15	11049229	11125536	MSTRG.3403.2	GOLIM4
scaffold_15	11049693	11125536	MSTRG.3403.3	GOLIM4
scaffold_15	11055885	11125536	MSTRG.3403.5	GOLIM4
scaffold_15	42673251	42870774	GSK3B_g3424.t1	GSK3B
scaffold_15	42872242	42872443	MSTRG.3620.1	GSK3B
scaffold_15	42872700	42875742	MSTRG.3621.1	GSK3B
scaffold_15	42672872	42842423	MSTRG.3622.1	GSK3B
scaffold_15	42147190	42163880	MSTRG.3615.2	GTF2E1
scaffold_15	42146873	42170528	MSTRG.3615.1	GTF2E1
scaffold_15	12854497	12892604	MSTRG.3409.1	GTF3C2
scaffold_15	48740253	48749226	GTPB8_g3460.t1	GTPB8
scaffold_15	48739377	48739792	MSTRG.3665.1	GTPBP8
scaffold_15	48740253	48749226	MSTRG.3668.1	GTPBP8
scaffold_15	13623311	13650014	GTR2_g3200.t1	RRAGC
scaffold_15	39436995	39534611	HACD2_g3387.t1	HACD2
scaffold_15	38079336	38164552	HEG1_g3378.t1	HEG1
scaffold_15	38079487	38168411	MSTRG.3581.2	HEG1
scaffold_15	60568010	60579180	HEM6_g3535.t1	CPOX
scaffold_15	33598826	33601409	MSTRG.3536.1	HES1
scaffold_15	42216197	42259038	HGD_g3417.t1	HGD
scaffold_15	52630715	52641873	HHLA2_g3493.t1	HHLA2
scaffold_15	52627341	52627675	MSTRG.3693.1	HHLA2
scaffold_15	27298337	27308187	HRG_g3293.t1	HRG
scaffold_15	40187218	40242100	MSTRG.3600.1	HSPBAP1
scaffold_15	26415614	26565561	IF2B2_g3283.t1	IF2B2
scaffold_15	27368384	27374705	IF4A2_g3295.t1	EIF4A2
scaffold_15	25270096	25289139	IF4G1_g3266.t1	IF4G1
scaffold_15	13542727	13553713	IF5A2_g3199.t1	EIF5A2
scaffold_15	52754536	52807706	IFT57_g3494.t1	IFT57
scaffold_15	378191	506591	IFT80_g3131.t1	IFT80
scaffold_15	373245	527945	MSTRG.3354.1	IFT80
scaffold_15	373365	527945	MSTRG.3354.4	IFT80
scaffold_15	373365	508231	MSTRG.3354.6	IFT80

scaffold_15	373245	387437	MSTRG.3354.2	IFT80
scaffold_15	373245	480311	MSTRG.3354.3	IFT80
scaffold_15	373365	527945	MSTRG.3354.5	IFT80
scaffold_15	373374	515073	MSTRG.3354.7	IFT80
scaffold_15	26414756	26414957	MSTRG.3512.1	IGF2BP2
scaffold_15	43513788	43628941	IGS11_g3437.t1	IGS11
scaffold_15	43513273	43628941	MSTRG.3636.1	IGSF11
scaffold_15	36669666	36669896	MSTRG.3567.1	IGSF21
scaffold_15	57905081	57914810	IKBZ_g3507.t1	IKBZ
scaffold_15	30695774	30696667	IL1AP_g3312.t1	IL1AP
scaffold_15	30644093	30690234	MSTRG.3529.2	IL1RAP
scaffold_15	41226021	41256967	ILDR1_g3407.t1	ILDR1
scaffold_15	214992	275356	IMA3_g3127.t1	IMA3
scaffold_15	58269491	58338745	IMPG2_g3515.t1	IMPG2
scaffold_15	34794608	34817094	IPP2_g3337.t1	PPP1R2
scaffold_15	22372738	22376661	IQCB1_g3235.t1	IQCB1
scaffold_15	41374996	41415524	IQCB1_g3410.t1	IQCB1
scaffold_15	41374532	41415524	MSTRG.3611.2	IQCB1
scaffold_15	41370680	41415524	MSTRG.3611.1	IQCB1
scaffold_15	41397593	41415524	MSTRG.3611.4	IQCB1
scaffold_15	38238260	38343918	ITB5_g3380.t1	ITB5
scaffold_15	13016959	13017177	MSTRG.3413.1	IVD
scaffold_15	38387557	38496255	KALRN_g3382.t1	KALRN
scaffold_15	38678819	39014829	KALRN_g3383.t1	KALRN
scaffold_15	38433808	38496255	MSTRG.3590.2	KALRN
scaffold_15	3854103	4103947	KCAB1_g3157.t1	KCNAB1
scaffold_15	20953562	20969326	KCMB3_g3220.t1	KCNMB3
scaffold_15	20950195	20969326	KCMB3_g3220.t2	KCNMB3
scaffold_15	3704383	3733830	MSTRG.3373.2	KCNAB1
scaffold_15	4198877	4217510	MSTRG.3384.1	KITLG
scaffold_15	5142035	5174869	MSTRG.3385.1	KITLG
scaffold_15	24712220	24744007	KLH24_g3248.t1	KLH24
scaffold_15	24699014	24744007	MSTRG.3480.1	KLHL24
scaffold_15	24699014	24744007	MSTRG.3480.2	KLHL24
scaffold_15	24700130	24744007	MSTRG.3480.3	KLHL24
scaffold_15	24708955	24744007	MSTRG.3480.4	KLHL24
scaffold_15	32529590	32529795	MSTRG.3532.1	KLRK1
scaffold_15	12993486	13061534	KPCI_g3194.t1	PRKCI
scaffold_15	40819196	40896426	MSTRG.3602.1	KPNA1
scaffold_15	40857395	40866221	MSTRG.3602.2	KPNA1
scaffold_15	250293	284005	MSTRG.3348.2	KPNA4
scaffold_15	26315710	26361937	LIPH_g3281.t1	LIPH
scaffold_15	26300875	26361937	MSTRG.3509.3	LIPH
scaffold_15	26307996	26361937	MSTRG.3509.5	LIPH
scaffold_15	37425299	37504042	LMLN_g3374.t1	LMLN

scaffold_15	37505645	37505879	MSTRG.3580.1	LMLN
scaffold_15	59008245	59024164	LNP1_g3521.t1	LNP1
scaffold_15	37210804	37212628	MSTRG.3574.1	LOC100629324
scaffold_15	11724037	11737950	EGFEM_g3182.t1	LOC101390896
scaffold_15	58023673	58024090	MSTRG.3720.1	LOC111771480
scaffold_15	32400608	32400972	LONM_g3318.t1	LONM
scaffold_15	28694939	29186880	LPP_g3305.t1	LPP
scaffold_15	33801079	33802830	LRC15_g3328.t1	LRC15
scaffold_15	42465834	42483134	LRC58_g3421.t1	LRRC58
scaffold_15	37267413	37365688	LRCH3_g3371.t1	LRCH3
scaffold_15	63018958	63019218	MSTRG.3763.1	LRCH3
scaffold_15	37267550	37371614	MSTRG.3577.8	LRCH3
scaffold_15	50398956	50434164	LRTM2_g3479.t1	LRTM2
scaffold_15	45712650	46141276	LSAMP_g3438.t2	LSAMP
scaffold_15	46314404	46314793	MSTRG.3649.1	LSAMP
scaffold_15	46316315	46316575	MSTRG.3650.1	LSAMP
scaffold_15	46319944	46320341	MSTRG.3652.1	LSAMP
scaffold_15	46293628	46320967	MSTRG.3648.1	LSAMP
scaffold_15	34049561	34079628	MSTRG.3546.1	LSG1
scaffold_15	1927890	1935798	MSTRG.3361.1	LXN
scaffold_15	24535322	24535615	MSTRG.3478.1	LY75
scaffold_15	32454039	32568038	M21D2_g3320.t1	MB21D2
scaffold_15	26168783	26298526	MSTRG.3508.1	MAP3K13
scaffold_15	24169811	24228098	MCCA_g3241.t1	MCCA
scaffold_15	24200290	24228098	MSTRG.3472.2	MCCC1
scaffold_15	27398825	27404295	DAPLE_g3297.t1	MCF2L
scaffold_15	11982924	12083082	MECOM_g3184.t1	MECOM
scaffold_15	6842443	6842654	MSTRG.3386.1	MEGF8
scaffold_15	3005237	3209112	MELT_g3151.t1	VEPH1
scaffold_15	9155613	9155844	MSTRG.3394.1	MEPE
scaffold_15	24287513	24332189	MF2L2_g3242.t1	MF2L2
scaffold_15	24366776	24524686	MF2L2_g3245.t1	MF2L2
scaffold_15	21039285	21074074	MFN1_g3221.t1	MFN1
scaffold_15	21037822	21075761	MSTRG.3449.1	MFN1
scaffold_15	1797920	1819673	MFSD1_g3141.t1	MFSD1
scaffold_15	61084532	61102049	MSTRG.3758.2	RIOX2
scaffold_15	61085053	61102049	MSTRG.3758.4	RIOX2
scaffold_15	61084532	61102049	MSTRG.3758.1	MINA
scaffold_15	61084733	61102049	MSTRG.3758.3	MINA
scaffold_15	40928769	40951464	MIX23_g3403.t1	MIX23
scaffold_15	1984784	2035813	MLF1_g3146.t1	MLF1
scaffold_15	24950001	25022520	MRP5_g3252.t1	ABCC5
scaffold_15	58329491	58329708	MSTRG.3728.1	MRPS5
scaffold_15	39148649	39422840	MYLK_g3386.t1	MYLK
scaffold_15	12614774	12630308	MSTRG.3404.3	MYNN

scaffold_15	12614138	12630308	MYNN_g3187.t1	MYNN
scaffold_15	12614763	12630308	MSTRG.3404.2	MYNN
scaffold_15	12614774	12630308	MSTRG.3404.4	MYNN
scaffold_15	48124518	48146868	NAA50_g3452.t1	NAA50
scaffold_15	48124215	48147981	MSTRG.3658.1	NAA50
scaffold_15	17472804	18077524	NADL2_g3213.t1	NAALADL2
scaffold_15	35495261	35495758	NCAS2_g3344.t1	NCBP2AS2
scaffold_15	35495946	35503087	NCBP2_g3345.t1	NCBP2
scaffold_15	35503308	35504574	MSTRG.3552.1	NCBP2
scaffold_15	35495946	35528830	MSTRG.3551.1	NCBP2
scaffold_15	35494553	35495758	MSTRG.3550.1	NCBP2AS2
scaffold_15	15091793	15151646	NCEH1_g3207.t1	NCEH1
scaffold_15	42269678	42275628	NDUB4_g3418.t1	NDUFB4
scaffold_15	21258112	21270107	NDUB5_g3226.t1	NDUB5
scaffold_15	24402249	24402479	NDUC1_g3246.t1	NDUFC1
scaffold_15	50229418	50376749	MSTRG.3684.1	NECTIN3
scaffold_15	50312313	50376749	MSTRG.3684.2	NECTIN3
scaffold_15	50312313	50376586	MSTRG.3684.3	NECTIN3
scaffold_15	48721832	48736155	NEPRO_g3459.t1	NEPRO
scaffold_15	10845933	10871326	NEUS_g3179.t1	NEUS
scaffold_15	57903579	57934301	MSTRG.3717.1	NFKBIZ
scaffold_15	57903579	57914810	MSTRG.3717.2	NFKBIZ
scaffold_15	59109199	59125471	NIT2_g3524.t1	NIT2
scaffold_15	59105306	59124885	MSTRG.3738.1	NIT2
scaffold_15	59105314	59125471	MSTRG.3738.2	NIT2
scaffold_15	659761	711062	NL1B5_g3134.t1	NL1B5
scaffold_15	5206381	5337980	NMD3_g3161.t1	NMD3
scaffold_15	9062072	9062698	MSTRG.3388.1	NMD3
scaffold_15	5290198	5324766	MSTRG.3389.2	NMD3
scaffold_15	5290478	5324766	MSTRG.3389.3	NMD3
scaffold_15	53020280	53039505	ATPG_g3496.t1	ATPG_g3496.t1
scaffold_15	36618868	36619643	CALM_g3356.t1	CALM_g3356.t1
scaffold_15	42377789	42417902	FSTL1_g3419.t1	FSTL1_g3419.t1
scaffold_15	7236	7436	MSTRG.3343.1	MSTRG.3343.1
scaffold_15	52548	78351	MSTRG.3345.1	MSTRG.3345.1
scaffold_15	260385	260775	MSTRG.3349.1	MSTRG.3349.1
scaffold_15	1819875	1824940	MSTRG.3358.2	MSTRG.3358.2
scaffold_15	670950	711062	MSTRG.3360.3	MSTRG.3360.3
scaffold_15	3188261	3188481	MSTRG.3369.1	MSTRG.3369.1
scaffold_15	9032412	9032626	MSTRG.3387.1	MSTRG.3387.1
scaffold_15	9950514	9950721	MSTRG.3396.1	MSTRG.3396.1
scaffold_15	10051627	10051829	MSTRG.3399.1	MSTRG.3399.1
scaffold_15	12604992	12605422	MSTRG.3405.1	MSTRG.3405.1
scaffold_15	13399669	13399886	MSTRG.3418.1	MSTRG.3418.1
scaffold_15	19579248	19579471	MSTRG.3435.1	MSTRG.3435.1

scaffold_15	16999219	16999426	MSTRG.3438.1	MSTRG.3438.1
scaffold_15	17142119	17142326	MSTRG.3440.1	MSTRG.3440.1
scaffold_15	20873120	20936595	MSTRG.3447.2	MSTRG.3447.2
scaffold_15	22008468	22080160	MSTRG.3456.3	MSTRG.3456.3
scaffold_15	23907459	23913601	MSTRG.3459.1	MSTRG.3459.1
scaffold_15	23907459	23913601	MSTRG.3459.2	MSTRG.3459.2
scaffold_15	23973743	23973972	MSTRG.3465.1	MSTRG.3465.1
scaffold_15	24346140	24363305	MSTRG.3474.1	MSTRG.3474.1
scaffold_15	26133080	26141670	MSTRG.3505.1	MSTRG.3505.1
scaffold_15	25705932	25952787	MSTRG.3507.1	MSTRG.3507.1
scaffold_15	26370821	26404122	MSTRG.3510.2	MSTRG.3510.2
scaffold_15	26386581	26394708	MSTRG.3510.4	MSTRG.3510.4
scaffold_15	27394273	27402601	MSTRG.3518.1	MSTRG.3518.1
scaffold_15	29983122	29983328	MSTRG.3524.1	MSTRG.3524.1
scaffold_15	28524508	29190025	MSTRG.3525.1	MSTRG.3525.1
scaffold_15	28524534	29190025	MSTRG.3525.2	MSTRG.3525.2
scaffold_15	28524780	29190025	MSTRG.3525.3	MSTRG.3525.3
scaffold_15	28524780	29190025	MSTRG.3525.4	MSTRG.3525.4
scaffold_15	28524807	29190025	MSTRG.3525.5	MSTRG.3525.5
scaffold_15	30467190	30516320	MSTRG.3528.2	MSTRG.3528.2
scaffold_15	37798606	37916066	MSTRG.3585.2	MSTRG.3585.2
scaffold_15	40103346	40103547	MSTRG.3596.1	MSTRG.3596.1
scaffold_15	37669372	37737124	MSTRG.3597.1	MSTRG.3597.1
scaffold_15	41437075	41449145	MSTRG.3613.3	MSTRG.3613.3
scaffold_15	42377668	42433491	MSTRG.3618.1	MSTRG.3618.1
scaffold_15	43955830	44000136	MSTRG.3638.1	MSTRG.3638.1
scaffold_15	43955931	44000136	MSTRG.3638.2	MSTRG.3638.2
scaffold_15	43459200	43474561	MSTRG.3639.1	MSTRG.3639.1
scaffold_15	45385399	45385620	MSTRG.3643.1	MSTRG.3643.1
scaffold_15	45856044	45856268	MSTRG.3645.1	MSTRG.3645.1
scaffold_15	45879425	45879654	MSTRG.3646.1	MSTRG.3646.1
scaffold_15	46881626	47657867	MSTRG.3655.1	MSTRG.3655.1
scaffold_15	46927495	47657867	MSTRG.3655.2	MSTRG.3655.2
scaffold_15	46927495	47657867	MSTRG.3655.3	MSTRG.3655.3
scaffold_15	46927991	47657867	MSTRG.3655.4	MSTRG.3655.4
scaffold_15	47041056	47657867	MSTRG.3655.5	MSTRG.3655.5
scaffold_15	47176856	47196514	MSTRG.3655.6	MSTRG.3655.6
scaffold_15	48159663	48210441	MSTRG.3659.3	MSTRG.3659.3
scaffold_15	48672342	48672552	MSTRG.3661.1	MSTRG.3661.1
scaffold_15	53147627	53147851	MSTRG.3697.1	MSTRG.3697.1
scaffold_15	53636650	53650498	MSTRG.3709.1	MSTRG.3709.1
scaffold_15	62578206	62578425	MSTRG.3761.1	MSTRG.3761.1
scaffold_15	63017587	63018442	MSTRG.3762.1	MSTRG.3762.1
scaffold_15	61256134	61287787	MSTRG.3768.2	MSTRG.3768.2
scaffold_15	61256141	61287787	MSTRG.3768.4	MSTRG.3768.4

scaffold_15	61293074	61293843	MSTRG.3770.1	MSTRG.3770.1
scaffold_15	61395724	61395943	MSTRG.3771.1	MSTRG.3771.1
scaffold_15	61439233	61439449	MSTRG.3772.1	MSTRG.3772.1
scaffold_15	1785808	1786056	PAR2_g3140.t1	PAR2_g3140.t1
scaffold_15	40698519	40700290	PARP9_g3397.t1	PARP9_g3397.t1
scaffold_15	27374733	27386302	RFC4_g3296.t1	RFC4_g3296.t1
scaffold_15	6228773	6237761	UBP11_g3167.t2	UBP11_g3167.t2
scaffold_15	80821	90871	MSTRG.3344.1	NOTHING
scaffold_15	52549	78351	MSTRG.3345.2	NOTHING
scaffold_15	156251	214573	MSTRG.3346.1	NOTHING
scaffold_15	328169	328377	MSTRG.3350.1	NOTHING
scaffold_15	530899	531547	MSTRG.3353.1	NOTHING
scaffold_15	1819861	1824940	MSTRG.3358.1	NOTHING
scaffold_15	1819878	1828787	MSTRG.3358.3	NOTHING
scaffold_15	1826512	1828787	MSTRG.3358.4	NOTHING
scaffold_15	1944937	1947835	MSTRG.3362.2	NOTHING
scaffold_15	2436858	2441535	MSTRG.3370.3	NOTHING
scaffold_15	3853191	3853404	MSTRG.3375.1	NOTHING
scaffold_15	4835921	4836145	MSTRG.3378.1	NOTHING
scaffold_15	5126707	5126987	MSTRG.3379.1	NOTHING
scaffold_15	5125937	5126192	MSTRG.3380.1	NOTHING
scaffold_15	4836870	5121811	MSTRG.3382.1	NOTHING
scaffold_15	5121909	5122971	MSTRG.3383.1	NOTHING
scaffold_15	5142202	5174483	MSTRG.3385.2	NOTHING
scaffold_15	11302972	11303180	MSTRG.3401.1	NOTHING
scaffold_15	11304582	11309350	MSTRG.3402.1	NOTHING
scaffold_15	12468428	12468749	MSTRG.3406.1	NOTHING
scaffold_15	13000207	13000435	MSTRG.3412.1	NOTHING
scaffold_15	14385823	14389548	MSTRG.3422.1	NOTHING
scaffold_15	14394969	14395817	MSTRG.3423.1	NOTHING
scaffold_15	14897814	14916220	MSTRG.3427.1	NOTHING
scaffold_15	14893630	14893861	MSTRG.3428.1	NOTHING
scaffold_15	14894268	14895089	MSTRG.3431.1	NOTHING
scaffold_15	19116740	19308197	MSTRG.3433.1	NOTHING
scaffold_15	19122777	19308197	MSTRG.3433.2	NOTHING
scaffold_15	19248003	19267722	MSTRG.3434.1	NOTHING
scaffold_15	16781836	18014725	MSTRG.3436.1	NOTHING
scaffold_15	16789831	16790048	MSTRG.3437.1	NOTHING
scaffold_15	17083207	17083461	MSTRG.3439.1	NOTHING
scaffold_15	14896349	14896564	MSTRG.3446.1	NOTHING
scaffold_15	21209886	21238806	MSTRG.3451.2	NOTHING
scaffold_15	21410292	21410592	MSTRG.3454.1	NOTHING
scaffold_15	22008427	22033179	MSTRG.3456.1	NOTHING
scaffold_15	22008435	22080160	MSTRG.3456.2	NOTHING
scaffold_15	22025354	22033179	MSTRG.3456.4	NOTHING

scaffold_15	22064367	22080160	MSTRG.3456.5	NOTHING
scaffold_15	22293931	22362222	MSTRG.3457.1	NOTHING
scaffold_15	22293931	22362222	MSTRG.3457.2	NOTHING
scaffold_15	23907459	23913601	MSTRG.3459.3	NOTHING
scaffold_15	23907493	23913137	MSTRG.3459.4	NOTHING
scaffold_15	24073716	24073920	MSTRG.3461.1	NOTHING
scaffold_15	23963738	23963947	MSTRG.3464.1	NOTHING
scaffold_15	23977978	23978181	MSTRG.3466.1	NOTHING
scaffold_15	23978896	23979108	MSTRG.3467.1	NOTHING
scaffold_15	24076323	24076536	MSTRG.3468.1	NOTHING
scaffold_15	24078596	24078823	MSTRG.3469.1	NOTHING
scaffold_15	24547637	24553242	MSTRG.3479.1	NOTHING
scaffold_15	25126108	25126319	MSTRG.3484.1	NOTHING
scaffold_15	25159105	25159498	MSTRG.3488.1	NOTHING
scaffold_15	25227117	25227383	MSTRG.3492.1	NOTHING
scaffold_15	25210277	25210521	MSTRG.3495.1	NOTHING
scaffold_15	25312563	25312836	MSTRG.3502.1	NOTHING
scaffold_15	26031800	26032020	MSTRG.3504.1	NOTHING
scaffold_15	30514241	30516320	MSTRG.3528.10	NOTHING
scaffold_15	30690453	30691854	MSTRG.3530.1	NOTHING
scaffold_15	34048161	34048384	MSTRG.3537.1	NOTHING
scaffold_15	34224270	34224475	MSTRG.3540.1	NOTHING
scaffold_15	36662485	36662698	MSTRG.3566.1	NOTHING
scaffold_15	36759334	36759536	MSTRG.3569.1	NOTHING
scaffold_15	38353169	38353670	MSTRG.3584.1	NOTHING
scaffold_15	38354095	38355784	MSTRG.3586.1	NOTHING
scaffold_15	38352444	38352658	MSTRG.3587.1	NOTHING
scaffold_15	38365391	38365602	MSTRG.3589.1	NOTHING
scaffold_15	41426696	41426909	MSTRG.3612.1	NOTHING
scaffold_15	43208537	43208739	MSTRG.3628.1	NOTHING
scaffold_15	43631561	43631771	MSTRG.3634.1	NOTHING
scaffold_15	44044065	44044279	MSTRG.3640.1	NOTHING
scaffold_15	44797200	44797407	MSTRG.3641.1	NOTHING
scaffold_15	44821914	44822143	MSTRG.3642.1	NOTHING
scaffold_15	48673695	48673910	MSTRG.3662.1	NOTHING
scaffold_15	48736529	48736831	MSTRG.3667.1	NOTHING
scaffold_15	48742203	48742493	MSTRG.3669.1	NOTHING
scaffold_15	49059136	49059368	MSTRG.3670.1	NOTHING
scaffold_15	49559828	49560096	MSTRG.3678.1	NOTHING
scaffold_15	49562218	49562436	MSTRG.3679.1	NOTHING
scaffold_15	52297566	52297767	MSTRG.3689.1	NOTHING
scaffold_15	52299167	52299377	MSTRG.3690.1	NOTHING
scaffold_15	52315639	52315968	MSTRG.3691.1	NOTHING
scaffold_15	52913443	52914994	MSTRG.3696.1	NOTHING
scaffold_15	53150812	53151146	MSTRG.3701.1	NOTHING

scaffold_15	53152812	53153101	MSTRG.3704.1	NOTHING
scaffold_15	54938592	54938820	MSTRG.3712.1	NOTHING
scaffold_15	54939349	54939704	MSTRG.3713.1	NOTHING
scaffold_15	54940491	54940699	MSTRG.3714.1	NOTHING
scaffold_15	58022095	58022313	MSTRG.3719.1	NOTHING
scaffold_15	58024465	58024752	MSTRG.3721.1	NOTHING
scaffold_15	58031879	58032235	MSTRG.3722.1	NOTHING
scaffold_15	58833083	58833385	MSTRG.3729.1	NOTHING
scaffold_15	58760032	58760261	MSTRG.3732.1	NOTHING
scaffold_15	58778433	58778635	MSTRG.3733.1	NOTHING
scaffold_15	58782155	58782411	MSTRG.3734.1	NOTHING
scaffold_15	59095743	59095994	MSTRG.3737.1	NOTHING
scaffold_15	59096574	59096908	MSTRG.3741.1	NOTHING
scaffold_15	60261322	60261986	MSTRG.3745.1	NOTHING
scaffold_15	60287775	60291344	MSTRG.3746.1	NOTHING
scaffold_15	59538369	59542463	MSTRG.3750.1	NOTHING
scaffold_15	61196074	61200763	MSTRG.3760.1	NOTHING
scaffold_15	63216023	63216248	MSTRG.3764.1	NOTHING
scaffold_15	63230981	63231181	MSTRG.3765.1	NOTHING
scaffold_15	53040678	53061903	MSTRG.3700.1	NOTHING
scaffold_15	53654074	53663342	MSTRG.3710.1	NOTHING
scaffold_15	58130374	58260701	MSTRG.3726.2	NOTHING
scaffold_15	59414248	59424395	MSTRG.3748.1	NOTHING
scaffold_15	63240392	63257623	MSTRG.3779.1	NOTHING
scaffold_15	63240392	63257623	MSTRG.3779.2	NOTHING
scaffold_15	63247530	63257623	MSTRG.3779.3	NOTHING
scaffold_15	63247669	63257623	MSTRG.3779.4	NOTHING
scaffold_15	64044649	64101377	MSTRG.3780.1	NSUN3
scaffold_15	64046379	64101377	MSTRG.3780.2	NSUN3
scaffold_15	64046379	64101377	MSTRG.3780.3	NSUN3
scaffold_15	64068892	64101377	MSTRG.3780.5	NSUN3
scaffold_15	64071109	64101377	MSTRG.3780.6	NSUN3
scaffold_15	41579675	41625288	MSTRG.3614.1	NUMB
scaffold_15	41583674	41585612	MSTRG.3614.2	NUMB
scaffold_15	57938773	57972939	NXPE3_g3508.t1	NXPE3
scaffold_15	57937916	57978232	MSTRG.3716.1	NXPE3
scaffold_15	33136094	33225988	MSTRG.3534.1	OPA1
scaffold_15	33136329	33220905	OPA1_g3325.t1	OPA1
scaffold_15	33136094	33225988	MSTRG.3534.2	OPA1
scaffold_15	37566308	37650898	MSTRG.3576.1	OSBPL11
scaffold_15	9142787	9143031	MSTRG.3395.1	OTOGL
scaffold_15	49299218	49315841	OX2G_g3466.t1	CD200
scaffold_15	30084179	30231568	MSTRG.3526.1	P3H2
scaffold_15	6689214	6689486	PADI2_g3168.t1	PADI2
scaffold_15	36302676	36344273	PAK2_g3349.t1	PAK2

scaffold_15	36294231	36382532	MSTRG.3554.1	PAK2
scaffold_15	47285128	47309100	PAP1L_g3441.t1	PAP1L
scaffold_15	40246866	40290107	PAR14_g3394.t1	PARP14
scaffold_15	40635777	40636046	PAR15_g3396.t1	PAR15
scaffold_15	24873949	24921885	PARL_g3251.t1	PARL
scaffold_15	40720333	40744075	DTX3L_g3398.t1	PARP15
scaffold_15	40797564	40801002	PARP9_g3399.t1	PARP9
scaffold_15	40801749	40807239	PARP9_g3400.t1	PARP9
scaffold_15	3706037	3730966	PARPT_g3155.t1	TIPARP
scaffold_15	24074469	24074674	MSTRG.3462.1	PCMT1
scaffold_15	58082582	58100947	PCNP_g3512.t1	PCNP
scaffold_15	36774077	36795003	PCY1A_g3361.t1	PCY1A
scaffold_15	36759989	36796956	MSTRG.3570.1	PCYT1A
scaffold_15	10749683	10773351	PDC10_g3177.t1	PDC10
scaffold_15	10748655	10791165	MSTRG.3400.1	PDCD10
scaffold_15	10748720	10791165	MSTRG.3400.2	PDCD10
scaffold_15	39850751	39923403	PDIA5_g3390.t1	PDIA5
scaffold_15	39850464	39938456	MSTRG.3595.1	PDIA5
scaffold_15	21415847	21624620	PEX5R_g3228.t1	PEX5R
scaffold_15	43152748	43172168	PGLT1_g3431.t1	PGLT1
scaffold_15	12893439	12969610	MSTRG.3410.2	PHC3
scaffold_15	12902117	12969846	PHC3_g3193.t1	PHC3
scaffold_15	12892865	12968654	MSTRG.3410.1	PHC3
scaffold_15	12901104	12929222	MSTRG.3410.3	PHC3
scaffold_15	46317496	46317702	MSTRG.3651.1	PHC3
scaffold_15	49621644	49706955	PHLB2_g3473.t1	PHLDB2
scaffold_15	49660745	49724752	MSTRG.3683.6	PHLDB2
scaffold_15	49649203	49724752	MSTRG.3683.5	PHLDB2
scaffold_15	36386067	36418597	PIGX_g3350.t1	PIGX
scaffold_15	36384352	36419218	MSTRG.3555.1	PIGX
scaffold_15	36384703	36419218	MSTRG.3555.2	PIGX
scaffold_15	35487240	35491553	PIGZ_g3343.t1	PIGZ
scaffold_15	20873093	20950171	MSTRG.3447.1	PIK3CA
scaffold_15	1034	3664	PK1L1_g3125.t1	PKD1L1
scaffold_15	20916444	20947679	PK3CA_g3219.t1	PIK3CA
scaffold_15	32822115	32847647	PLAT1_g3322.t1	PLAT1
scaffold_15	49842367	49885230	PLCX2_g3474.t1	PLCXD2
scaffold_15	14161071	14381182	MSTRG.3425.2	PLD1
scaffold_15	14161203	14327811	MSTRG.3425.5	PLD1
scaffold_15	14163180	14381182	MSTRG.3425.6	PLD1
scaffold_15	14165824	14290506	PLD1_g3202.t1	PLD1
scaffold_15	14161071	14381182	MSTRG.3425.1	PLD1
scaffold_15	14161071	14366680	MSTRG.3425.3	PLD1
scaffold_15	14161203	14366680	MSTRG.3425.4	PLD1
scaffold_15	43150570	43172168	MSTRG.3627.2	POGLUT1

scaffold_15	43150378	43172168	MSTRG.3627.1	POGLUT1
scaffold_15	25314791	25318723	MSTRG.3499.1	POLR2H
scaffold_15	43011258	43026070	POPD2_g3426.t1	POPDC2
scaffold_15	34795641	34806283	MSTRG.3543.2	PPP1R2
scaffold_15	2948050	2953131	MSTRG.3365.1	SLC66A1
scaffold_15	13061605	13062131	MSTRG.3414.1	PRKCI
scaffold_15	64193792	64253878	PROS_g3563.t1	PROS
scaffold_15	25255709	25265060	PSMD2_g3265.t1	PSMD2
scaffold_15	6981968	6998210	PTC2_g3169.t2	PTCH2
scaffold_15	3049624	3054920	PTX3_g3152.t1	PTX3
scaffold_15	47828649	47845397	QTRT2_g3447.t1	QTRT2
scaffold_15	47828301	47828519	MSTRG.3653.1	QTRT2
scaffold_15	42201613	42209278	MSTRG.3616.3	RABL3
scaffold_15	42170786	42207879	RABL3_g3416.t1	RABL3
scaffold_15	42170786	42209278	MSTRG.3616.1	RABL3
scaffold_15	52284028	52285765	RETNB_g3488.t1	RETNB
scaffold_15	43217681	43324605	RHG31_g3434.t1	ARHGAP31
scaffold_15	61086248	61102049	RIOX2_g3554.t1	RIOX2
scaffold_15	13520728	13525746	RL22L_g3198.t1	RPL22L1
scaffold_15	58025313	58029979	RL24_g3510.t1	RPL24
scaffold_15	37417259	37421691	RL35A_g3373.t1	RPL35A
scaffold_15	21239323	21257919	RM47_g3225.t1	MRPL47
scaffold_15	36589014	36618867	RN168_g3355.t1	RNF168
scaffold_15	10657777	10657999	MSTRG.3398.1	RNF225
scaffold_15	25315017	25318723	RPAB3_g3269.t1	RPAB3
scaffold_15	12815581	12815859	RPAB5_g3192.t1	RPAB5
scaffold_15	13519998	13525746	MSTRG.3419.1	RPL22L1
scaffold_15	58025313	58029979	MSTRG.3723.1	RPL24
scaffold_15	37417808	37421691	MSTRG.3575.2	RPL35A
scaffold_15	309834	310502	MSTRG.3347.1	RPL39
scaffold_15	32604322	32604789	RS27A_g3321.t1	RPS27A
scaffold_15	2059441	2074580	MSTRG.3370.2	RSRC1
scaffold_15	2059398	2445905	RSRC1_g3148.t1	RSRC1
scaffold_15	36641356	36642219	RSSA_g3357.t1	RSSA
scaffold_15	28125296	28129176	BCL6_g3304.t1	RTP2
scaffold_15	37147103	37171864	MSTRG.3573.1	RUBCN
scaffold_15	37174175	37227428	MSTRG.3573.3	RUBCN
scaffold_15	37149812	37227428	RUBIC_g3369.t1	RUBIC
scaffold_15	37933499	38058642	S12A8_g3377.t1	SLC12A8
scaffold_15	41284784	41317381	S15A2_g3408.t1	SLC15A2
scaffold_15	49064187	49088598	S35A5_g3463.t1	S35A5
scaffold_15	13178382	13231961	S7A14_g3197.t1	SLC7A14
scaffold_15	39737879	39839043	SC22A_g3389.t1	SEC22A
scaffold_15	829774	958396	SCHI1_g3136.t1	SCHI1
scaffold_15	829280	884207	MSTRG.3359.1	SCHIP1

scaffold_15	12784140	12811178	SEC62_g3191.t2	SEC62
scaffold_15	40047147	40086670	SEM5B_g3391.t2	SEMA5B
scaffold_15	26370821	26404122	MSTRG.3510.3	SENP2
scaffold_15	26370765	26402938	SENP2_g3282.t1	SENP2
scaffold_15	35507957	35513506	MSTRG.3553.3	SENP5
scaffold_15	35505097	35551315	MSTRG.3553.1	SENP5
scaffold_15	35505097	35551315	MSTRG.3553.2	SENP5
scaffold_15	58130338	58131756	MSTRG.3726.1	SENP7
scaffold_15	58130465	58266673	SENP7_g3514.t1	SENP7
scaffold_15	2035224	2036156	SFI1_g3147.t1	SFI1
scaffold_15	49715277	49724752	MSTRG.3683.7	SGSM1
scaffold_15	60406974	60434604	SIA10_g3534.t1	ST3GAL6
scaffold_15	27557992	27589841	SIAT1_g3299.t2	ST6GAL1
scaffold_15	13091495	13118358	MSTRG.3415.1	SKIL
scaffold_15	3496051	3590696	CE290_g3154.t1	SLC25A17
scaffold_15	49061538	49088598	MSTRG.3674.1	SLC35A5
scaffold_15	49061687	49089787	MSTRG.3674.2	SLC35A5
scaffold_15	49080444	49088598	MSTRG.3674.4	SLC35A5
scaffold_15	357715	372986	MSTRG.3352.3	SMC4
scaffold_15	338185	357714	SMC4_g3129.t1	SMC4
scaffold_15	357715	372173	SMC4_g3130.t1	SMC4
scaffold_15	3851964	3852369	MSTRG.3376.1	SMKR1
scaffold_15	28106840	28108047	SMS_g3303.t1	SMS
scaffold_15	48347121	48392444	MSTRG.3660.1	SPICE1
scaffold_15	58380579	58380980	SPP2C_g3516.t1	SPP2C
scaffold_15	3836457	3850866	SSRG_g3156.t1	SSRG
scaffold_15	60406294	60466427	MSTRG.3753.1	ST3GAL6
scaffold_15	60406484	60432315	MSTRG.3753.2	ST3GAL6
scaffold_15	60431708	60466427	MSTRG.3753.4	ST3GAL6
scaffold_15	60456741	60480068	MSTRG.3754.1	ST3GAL6
scaffold_15	41697420	42034180	STB5L_g3414.t1	STXBP5L
scaffold_15	49373994	49376005	MSTRG.3673.1	STK24
scaffold_15	64141325	64142209	STX19_g3562.t1	STX19
scaffold_15	19176820	19311407	PCNT_g3216.t1	SULT6B1
scaffold_15	53658790	53663342	SUZ12_g3500.t1	SUZ12
scaffold_15	42148523	42165590	T2EA_g3415.t1	GTF2E1
scaffold_15	58636596	58798428	TARSH_g3517.t1	ABI3BP
scaffold_15	59140953	59198046	MSTRG.3743.1	TBC1D23
scaffold_15	59140953	59198046	MSTRG.3743.2	TBC1D23
scaffold_15	59142522	59178584	TBC23_g3525.t1	TBC1D23
scaffold_15	27193799	27213575	TBCC1_g3289.t1	TBCCD1
scaffold_15	27185115	27185445	MSTRG.3514.1	TBCCD1
scaffold_15	27190471	27210856	MSTRG.3516.1	TBCCD1
scaffold_15	19133029	19176819	TBL1R_g3215.t1	TBL1R
scaffold_15	36738045	36756365	MSTRG.3568.1	TCTEX1D2

scaffold_15	36738060	36758484	MSTRG.3568.2	TCTEX1D2
scaffold_15	6106413	6148132	TFAP4_g3166.t1	TFAP4
scaffold_15	58798498	58831651	MSTRG.3735.1	TFG
scaffold_15	58798552	58831651	MSTRG.3735.2	TFG
scaffold_15	58798976	58831651	MSTRG.3735.3	TFG
scaffold_15	36887683	36930030	TFR1_g3364.t1	TFR1
scaffold_15	36903247	36930030	MSTRG.3571.2	TFRC
scaffold_15	17181013	17181235	MSTRG.3441.1	TGIF2
scaffold_15	43126175	43147530	TIDC1_g3430.t1	TIDC1
scaffold_15	1889438	1917706	TIG1_g3143.t1	TIG1
scaffold_15	24759743	24858077	MSTRG.3482.2	TIGD1
scaffold_15	47664201	47680170	TIGIT_g3444.t1	TIGIT
scaffold_15	22365680	22370465	TIM14_g3234.t1	DNAJC19
scaffold_15	49546420	49546623	MSTRG.3677.1	TIMMDC1
scaffold_15	43125600	43147530	MSTRG.3626.1	TIMMDC1
scaffold_15	5454415	5487444	TIP_g3164.t1	TIP
scaffold_15	3295179	3307921	MSTRG.3372.6	TIPARP
scaffold_15	3703429	3733830	MSTRG.3373.1	TIPARP
scaffold_15	3731038	3733830	MSTRG.3373.4	TIPARP
scaffold_15	43177162	43206868	TM39A_g3433.t1	TMEM39A
scaffold_15	26300875	26308601	TM41A_g3280.t1	TM41A
scaffold_15	58916164	58930564	TM45A_g3520.t1	TMEM45A
scaffold_15	30484204	30514120	MSTRG.3528.9	TMEM207
scaffold_15	30467190	30516320	MSTRG.3528.1	TMEM207
scaffold_15	30467516	30504929	MSTRG.3528.3	TMEM207
scaffold_15	30468716	30514120	MSTRG.3528.4	TMEM207
scaffold_15	30468716	30516320	MSTRG.3528.5	TMEM207
scaffold_15	30468716	30514120	MSTRG.3528.6	TMEM207
scaffold_15	30477218	30501345	MSTRG.3528.7	TMEM207
scaffold_15	30484199	30514120	MSTRG.3528.8	TMEM207
scaffold_15	59228950	59249215	CC50C_g3527.t1	TMEM30CP
scaffold_15	43175652	43206868	MSTRG.3631.1	TMEM39A
scaffold_15	43177162	43206868	MSTRG.3631.2	TMEM39A
scaffold_15	26298924	26361937	MSTRG.3509.2	TMEM41A
scaffold_15	26298613	26361937	MSTRG.3509.1	TMEM41A
scaffold_15	58915461	58986947	MSTRG.3736.1	TMEM45A
scaffold_15	34005938	34037179	TMM44_g3331.t1	TMM44
scaffold_15	49532945	49572237	TMPS7_g3471.t1	TMPS7
scaffold_15	49584151	49597129	TMPS7_g3471.t2	TMPS7
scaffold_15	13675452	14060888	MSTRG.3421.1	TNIK
scaffold_15	36947881	36987155	MSTRG.3572.3	TNK2
scaffold_15	36964287	36987155	MSTRG.3572.5	TNK2
scaffold_15	36980035	36987155	MSTRG.3572.7	TNK2
scaffold_15	36983496	36984999	MSTRG.3572.8	TNK2
scaffold_15	36947881	36987155	MSTRG.3572.1	TNK2

scaffold_15	36947881	36987155	MSTRG.3572.2	TNK2
scaffold_15	36948027	36987155	MSTRG.3572.4	TNK2
scaffold_15	59059384	59095107	TOM70_g3523.t1	TOMM70
scaffold_15	59058238	59059239	MSTRG.3739.1	TOMM70
scaffold_15	25322233	25325495	TPO_g3270.t1	TPO
scaffold_15	25322318	25325495	TPO_g3270.t2	TPO
scaffold_15	15187464	15187678	MSTRG.3430.1	TPR
scaffold_15	29442883	29548637	TPRG1_g3306.t1	TPRG1
scaffold_15	26652306	26673970	TRA2B_g3284.t1	TRA2B
scaffold_15	26642084	26673970	MSTRG.3513.1	TRA2B
scaffold_15	26652631	26673970	MSTRG.3513.3	TRA2B
scaffold_15	35415079	35439924	TRFM_g3341.t1	TRFM
scaffold_15	332959	334496	TRI59_g3128.t1	TRI59
scaffold_15	328677	337091	MSTRG.3351.1	TRIM59
scaffold_15	334031	372986	MSTRG.3352.1	TRIM59
scaffold_15	58077208	58103675	MSTRG.3725.1	TRMT10C
scaffold_15	58077635	58103675	MSTRG.3725.2	TRMT10C
scaffold_15	58080442	58100947	MSTRG.3725.3	TRMT10C
scaffold_15	59195003	59195362	TRNK1_g3526.t1	TRANK1
scaffold_15	22070489	22080160	TTC14_g3229.t1	TTC14
scaffold_15	49500519	49525770	TTMP_g3470.t1	TTMP
scaffold_15	21292522	21398404	UBP13_g3227.t1	USP13
scaffold_15	21292522	21398404	UBP13_g3227.t2	USP13
scaffold_15	36661587	36708393	UBXN7_g3358.t1	UBXN7
scaffold_15	60580982	60581206	MSTRG.3756.1	UCHL3
scaffold_15	38356501	38379504	UMPS_g3381.t1	UMPS
scaffold_15	37798606	37921968	MSTRG.3585.1	UMPS
scaffold_15	38368239	38379504	MSTRG.3588.2	UMPS
scaffold_15	43392267	43403948	UPK1B_g3436.t2	UPK1B
scaffold_15	48159622	48210441	MSTRG.3659.1	USF3
scaffold_15	48159651	48210441	MSTRG.3659.2	USF3
scaffold_15	48190363	48205946	USF3_g3453.t1	USF3
scaffold_15	31208303	31215650	UTS2B_g3315.t2	UTS2B
scaffold_15	48065308	48093028	VATA_g3451.t1	ATP6V1A
scaffold_15	25715436	25949468	VPS8_g3275.t1	VPS8
scaffold_15	25196074	25212279	VW5B2_g3260.t1	VW5B2
scaffold_15	36540316	36548283	WDR53_g3354.t1	WDR53
scaffold_15	36535575	36548283	MSTRG.3558.1	WDR53
scaffold_15	40900890	40901879	WDR5B_g3401.t1	WDR5B
scaffold_15	40902742	40903113	MSTRG.3606.1	WDR5B
scaffold_15	43175795	43176028	WDR73_g3432.t1	WDR73
scaffold_15	17464590	17464803	MSTRG.3442.1	WFDC1
scaffold_15	34423533	34599665	XXLT1_g3335.t1	XXLT1
scaffold_15	24759743	24859592	MSTRG.3482.1	YEATS2
scaffold_15	24759743	24787187	MSTRG.3482.3	YEATS2

scaffold_15	24759747	24787187	MSTRG.3482.4	YEATS2
scaffold_15	24777310	24858077	YETS2_g3249.t1	YEATS2
scaffold_15	22125127	22125432	Z518A_g3231.t1	ZNF518A
scaffold_15	10618497	10723050	ZBBX_g3176.t1	ZBBX
scaffold_15	10541212	10571691	ZBBX_g3176.t2	ZBBX
scaffold_15	10389115	10484692	ZBBX_g3176.t3	ZBBX
scaffold_15	58033773	58061922	ZBT11_g3511.t1	ZBTB11
scaffold_15	47592879	47634584	ZBT20_g3442.t1	ZBT20
scaffold_15	58033435	58061922	MSTRG.3724.1	ZBTB11
scaffold_15	47928508	47935829	ZDH23_g3449.t1	ZDHHC23
scaffold_15	47924161	47936601	MSTRG.3656.1	ZDHHC23
scaffold_15	12813070	12813301	MSTRG.3407.1	ZKSCAN8
scaffold_15	20790172	20817338	MSTRG.3444.2	ZMAT3
scaffold_15	20792668	20813591	ZMAT3_g3218.t1	ZMAT3
scaffold_15	20786047	20786271	MSTRG.3443.1	ZMAT3
scaffold_15	20787171	20817338	MSTRG.3444.1	ZMAT3
scaffold_15	37669412	37737124	ZN148_g3376.t1	ZNF148
scaffold_15	37849630	37916066	ZN148_g3376.t2	ZNF148
scaffold_15	59553499	59553732	ZN318_g3530.t1	ZNF318
scaffold_15	37798617	37921968	MSTRG.3585.3	ZNF148
scaffold_15	37813591	37916066	MSTRG.3585.4	ZNF148
scaffold_15	21014927	21025823	MSTRG.3445.2	ZNF639
scaffold_15	21014909	21025823	MSTRG.3445.1	ZNF639
scaffold_16	16549564	16588382	1433E_g3883.t1	YWHAE
scaffold_16	41096687	41104571	5NT3B_g4295.t1	NT5C3B
scaffold_16	16259966	16265090	A2AP_g3870.t1	SERPINF2
scaffold_16	2949392	2975501	AA2BR_g3620.t1	ADORA2B
scaffold_16	41935730	41944177	AASD1_g4337.t1	AARSD1
scaffold_16	25512613	25609661	AATF_g4027.t1	AATF
scaffold_16	50683601	50738404	ABCA5_g4482.t1	ABCA5
scaffold_16	50683463	50749390	MSTRG.4637.2	ABCA5
scaffold_16	50547139	50599568	ABCA6_g4481.t1	ABCA6
scaffold_16	50546098	50578155	MSTRG.4631.2	ABCA6
scaffold_16	50546192	50578555	MSTRG.4631.3	ABCA6
scaffold_16	50463142	50516606	ABCA9_g4480.t1	ABCA9
scaffold_16	18366156	18370207	ABH15_g3912.t1	ABHD15
scaffold_16	17259629	17393945	ABR_g3898.t1	ABR
scaffold_16	17259139	17337536	MSTRG.4088.1	ABR
scaffold_16	11267345	11272500	ACADV_g3742.t1	ACADVL
scaffold_16	11156783	11168087	ACAP1_g3730.t1	ACAP1
scaffold_16	11888466	11892954	ACHE_g3763.t1	ACHE
scaffold_16	56329583	56350222	ACOX1_g4558.t1	ACOX1
scaffold_16	35867071	35870271	ACSF2_g4117.t1	ACSF2
scaffold_16	35875987	35901984	ACSF2_g4119.t1	ACSF2
scaffold_16	60950071	60951670	ACTG_g4646.t1	ACTG1

scaffold_16	60947829	60952163	MSTRG.4780.1	ACTG1
scaffold_16	43236665	43254407	ADA11_g4382.t1	ADAM11
scaffold_16	21216658	21239441	ADAP2_g3966.t1	ADAP2
scaffold_16	2927378	2949388	MSTRG.3866.1	ADORA2B
scaffold_16	2927782	2949388	MSTRG.3866.3	ADORA2B
scaffold_16	8311163	8323693	ADPRM_g3654.t1	ADPRM
scaffold_16	55437909	55447310	ADRO_g4518.t1	FDXR
scaffold_16	38646776	38667395	AF17_g4193.t1	MLLT6
scaffold_16	13127609	13135691	AIPL1_g3788.t2	AIPL1
scaffold_16	3308840	3389631	AKA10_g3623.t1	AKAP10
scaffold_16	30416068	30429042	AKAP1_g4082.t1	AKAP1
scaffold_16	3308630	3369910	MSTRG.3871.1	AKAP10
scaffold_16	3317221	3365293	MSTRG.3871.3	AKAP10
scaffold_16	3598869	3614963	AL3A2_g3626.t1	ALDH3A2
scaffold_16	3594742	3615759	MSTRG.3875.1	ALDH3A2
scaffold_16	3595881	3614963	MSTRG.3875.2	ALDH3A2
scaffold_16	1741060	1761153	ALKB5_g3593.t1	ALKBH5
scaffold_16	49913724	49919583	AMZ2_g4472.t1	AMZ2
scaffold_16	49912152	49919583	MSTRG.4615.1	AMZ2
scaffold_16	18324010	18339958	AN13B_g3909.t1	ANKRD13B
scaffold_16	41632733	41639171	ANAG_g4315.t1	NAGLU
scaffold_16	30917713	30933647	ANKF1_g4088.t1	ANKFN1
scaffold_16	13878843	13907266	MSTRG.4021.4	ANKFY1
scaffold_16	13815304	13907266	MSTRG.4021.1	ANKFY1
scaffold_16	13821470	13907266	MSTRG.4021.3	ANKFY1
scaffold_16	35661454	35674864	ANR40_g4110.t1	ANKRD40
scaffold_16	7733574	7748461	MSTRG.3902.1	AOC1
scaffold_16	41856626	41861489	AOC2_g4333.t1	AOC2
scaffold_16	41862562	41869037	AOC3_g4334.t1	AOC3
scaffold_16	26358447	26417812	APBP2_g4039.t1	APPBP2
scaffold_16	61234947	61239668	APC11_g4662.t1	ANAPC11
scaffold_16	44247566	44262119	ARF2_g4410.t1	ARF2
scaffold_16	44247515	44262119	ARF2_g4410.t2	ARF2
scaffold_16	6298579	6306115	MSTRG.3895.1	ARHGAP44
scaffold_16	61207360	61211387	MSTRG.4800.2	ARHGDIA
scaffold_16	10317050	10324766	ARHGF_g3683.t1	ARHGEF15
scaffold_16	61089296	61091456	ARL16_g4652.t1	ARL16
scaffold_16	61084778	61091672	MSTRG.4792.2	ARL16
scaffold_16	42209191	42209796	ARL4D_g4349.t1	ARL4D
scaffold_16	42209922	42210127	MSTRG.4506.1	ARL4D
scaffold_16	38956501	38961672	ARL5C_g4203.t1	ARL5C
scaffold_16	55647940	55663777	ARMC7_g4529.t1	ARMC7
scaffold_16	17403472	17403688	MSTRG.4083.1	BMAL2
scaffold_16	11724469	11733454	ARRB2_g3754.t1	ARRB2
scaffold_16	11724073	11733454	MSTRG.3987.1	ARRB2

scaffold_16	49962595	50029897	ARSG_g4474.t1	ARSG
scaffold_16	61313325	61344242	MSTRG.4809.3	ASPSCR1
scaffold_16	10908272	10913259	AT1B2_g3707.t1	ATP1B2
scaffold_16	14085803	14118761	AT2A3_g3809.t1	ATP2A3
scaffold_16	37135532	37143194	AT5G1_g4151.t1	ATP5MC1
scaffold_16	42817461	42821046	AT7L3_g4369.t1	ATXN7L3
scaffold_16	21149358	21193911	ATAD5_g3964.t1	ATAD5
scaffold_16	55588475	55591354	ATP5H_g4526.t1	ATP5PD
scaffold_16	37135449	37138684	MSTRG.4367.3	ATP5MC1
scaffold_16	1604312	1622132	MSTRG.3824.1	ATPAF2
scaffold_16	1604862	1622132	ATPF2_g3589.t1	ATPAF2
scaffold_16	10416531	10421946	MSTRG.3929.1	AURKB
scaffold_16	49459670	49487148	AXIN2_g4469.t1	AXIN2
scaffold_16	25951213	25956848	MSTRG.4236.1	B3GNT5
scaffold_16	62482417	62483213	MSTRG.4842.5	B3GNTL1
scaffold_16	36902020	36957038	B4GN2_g4145.t1	B4GALNT2
scaffold_16	2262393	2276028	B9D1_g3606.t1	B9D1
scaffold_16	19381258	19385744	BACD2_g3949.t1	TNFAIP1
scaffold_16	60838132	60903118	BAHC1_g4644.t1	BAHCC1
scaffold_16	60514734	60585110	MSTRG.4770.2	BAIAP2
scaffold_16	60514831	60592569	BAIP2_g4637.t1	BAIAP2
scaffold_16	26574915	27149760	BCAS3_g4041.t1	BCAS3
scaffold_16	11438053	11448660	BCL6B_g3748.t1	BCL6B
scaffold_16	41829742	41839334	BECN1_g4331.t1	BECN1
scaffold_16	58151903	58159089	BIRC5_g4598.t1	BIRC5
scaffold_16	17742022	17788660	BLMH_g3904.t1	BLMH
scaffold_16	17741807	17788660	MSTRG.4092.1	BLMH
scaffold_16	10432016	10433080	BORC6_g3688.t1	BORCS6
scaffold_16	10433376	10433673	MSTRG.3928.1	BORCS6
scaffold_16	54049304	54050481	BORG4_g4497.t1	CDC42EP4
scaffold_16	47518810	47660469	BPTF_g4457.t1	BPTF
scaffold_16	47516724	47660672	MSTRG.4597.2	BPTF
scaffold_16	47516724	47660672	MSTRG.4597.4	BPTF
scaffold_16	47516956	47660672	MSTRG.4597.5	BPTF
scaffold_16	47516956	47660237	MSTRG.4597.6	BPTF
scaffold_16	47517980	47660672	MSTRG.4597.7	BPTF
scaffold_16	42005593	42074072	BRCA1_g4344.t1	BRCA1
scaffold_16	42004523	42074072	MSTRG.4490.3	BRCA1
scaffold_16	29361094	29372705	MSTRG.4292.3	TSPOAP1
scaffold_16	54007557	54021987	MSTRG.4646.2	C17ORF80
scaffold_16	12336021	12341782	C1QBP_g3780.t1	C1QBP
scaffold_16	58779794	58785365	C1QT1_g4613.t1	C1QTNF1
scaffold_16	58764146	58785365	MSTRG.4746.1	C1QTNF1
scaffold_16	58764409	58785365	MSTRG.4746.2	C1QTNF1
scaffold_16	58667383	58669071	C295L_g4610.t1	CEP295NL

scaffold_16	35733837	35796661	CAC1G_g4112.t1	CACNA1G
scaffold_16	38968143	38985515	CACB1_g4204.t1	CACNB1
scaffold_16	35733528	35796661	MSTRG.4338.1	CACNA1G
scaffold_16	35733570	35796661	MSTRG.4338.2	CACNA1G
scaffold_16	38968188	38985515	MSTRG.4406.2	CACNB1
scaffold_16	37177573	37193724	CACO2_g4152.t1	CALCOCO2
scaffold_16	34432027	34886018	CAH10_g4103.t1	CA10
scaffold_16	26058417	26067153	CAH4_g4036.t1	CAH4
scaffold_16	14145493	14173047	MSTRG.4026.1	CAMKK1
scaffold_16	14145504	14173047	MSTRG.4026.2	CAMKK1
scaffold_16	11941050	11957885	MSTRG.3999.2	CAMTA2
scaffold_16	11941822	11958620	MSTRG.3999.3	CAMTA2
scaffold_16	11941049	11958620	MSTRG.3999.1	CAMTA2
scaffold_16	58741712	58745932	CANT1_g4612.t1	CANT1
scaffold_16	59726921	59774603	CAR14_g4626.t1	CARD14
scaffold_16	39702180	39720769	CASC3_g4232.t1	CASC3
scaffold_16	41542284	41553589	CAVN1_g4313.t2	CAVIN1
scaffold_16	17599923	17666564	CBPD_g3902.t1	CPD
scaffold_16	37831361	37836839	CBX1_g4168.t1	CBX1
scaffold_16	59377951	59420248	CBX2_g4619.t2	CBX2
scaffold_16	59429480	59431740	CBX8_g4620.t1	CBX8
scaffold_16	43363571	43365615	CC103_g4386.t1	CCDC103
scaffold_16	61077378	61083180	CC137_g4651.t1	CCDC137
scaffold_16	61077351	61083180	CC137_g4651.t2	CCDC137
scaffold_16	3614982	3615759	CC180_g3627.t1	CCDC180
scaffold_16	42109757	42112851	CC200_g4348.t1	CCDC200
scaffold_16	59633604	59681653	CCD40_g4623.t1	CCDC40
scaffold_16	43178783	43189398	CCD43_g4380.t1	CCDC43
scaffold_16	61459395	61595757	CCD57_g4679.t1	CCDC57
scaffold_16	61550992	61578514	MSTRG.4820.3	CCDC57
scaffold_16	48297327	48356101	CCG4_g4463.t1	CACNG4
scaffold_16	23103147	23104420	CCL13_g3986.t1	CCL13
scaffold_16	23021296	23022793	CCL2_g3983.t1	CCL2
scaffold_16	23043693	23045205	CCL2_g3984.t1	CCL2
scaffold_16	23053346	23055249	CCL2_g3984.t2	CCL2
scaffold_16	24422373	24423788	CCL3_g4014.t1	CCL3
scaffold_16	24434652	24436016	CCL4_g4015.t1	CCL4
scaffold_16	23088588	23090028	CCL8_g3985.t1	CCL8
scaffold_16	40024294	40035003	CCR7_g4240.t1	CCR7
scaffold_16	21556096	21557019	CD5R1_g3973.t1	CD5R1
scaffold_16	10952727	10960713	MSTRG.3957.1	CD68
scaffold_16	44819428	44885646	CDC27_g4416.t1	CDC27
scaffold_16	39776143	39796537	CDC6_g4234.t1	CDC6
scaffold_16	39801187	39811150	CDC6_g4234.t2	CDC6
scaffold_16	39174059	39216649	CDK12_g4210.t1	CDK12

scaffold_16	56372331	56376885	CDK3_g4560.t1	CDK3
scaffold_16	55549129	55561087	CDR2L_g4524.t1	CDR2L
scaffold_16	48965984	49407783	CE112_g4468.t1	CEP112
scaffold_16	2628289	2639083	CENPV_g3615.t1	CENPV
scaffold_16	2638195	2643743	MSTRG.3854.1	CENPV
scaffold_16	61346212	61349839	CENPX_g4670.t1	CENPX
scaffold_16	48972956	49053911	MSTRG.4609.3	CEP112
scaffold_16	60654433	60670844	MSTRG.4773.4	CEP131
scaffold_16	47232206	47280791	CEP95_g4452.t1	CEP95
scaffold_16	47232091	47280791	MSTRG.4589.1	CEP95
scaffold_16	9231236	9274494	CFA52_g3670.t1	CFAP52
scaffold_16	35872491	35875661	CHAD_g4118.t1	CHAD
scaffold_16	10692842	10740145	CHD3_g3702.t1	CHD3
scaffold_16	10691703	10712142	MSTRG.3941.2	CHD3
scaffold_16	10691703	10712142	MSTRG.3941.3	CHD3
scaffold_16	10691718	10712914	MSTRG.3941.4	CHD3
scaffold_16	10691718	10712224	MSTRG.3941.5	CHD3
scaffold_16	10691721	10712224	MSTRG.3941.7	CHD3
scaffold_16	10691703	10712142	MSTRG.3941.1	CHD3
scaffold_16	10691721	10712224	MSTRG.3941.6	CHD3
scaffold_16	60483585	60491202	CHMP6_g4635.t1	CHMP6
scaffold_16	38670089	38672777	CISD3_g4194.t1	CISD3
scaffold_16	38670095	38672777	MSTRG.4399.2	CISD3
scaffold_16	11235127	11237165	CLD7_g3736.t1	CLDN7
scaffold_16	28171938	28237572	CLH1_g4051.t1	CLTC
scaffold_16	55289864	55309374	CLM1_g4512.t1	CD300LF
scaffold_16	28167778	28237572	MSTRG.4268.1	CLTC
scaffold_16	15458350	15478659	CLU_g3855.t1	CLUH
scaffold_16	15458237	15479075	MSTRG.4038.1	CLUH
scaffold_16	11941822	11957243	CMTA2_g3771.t1	CAMTA2
scaffold_16	41198483	41204380	CN37_g4300.t1	CNP
scaffold_16	11244192	11251108	CNEP1_g3738.t1	CTDNEP1
scaffold_16	41198592	41204380	MSTRG.4451.2	CNP
scaffold_16	61069794	61077197	CNRG_g4650.t1	PDE6G
scaffold_16	41739680	41752560	CNTP1_g4324.t1	CNTNAP1
scaffold_16	10649126	10674106	CNTRB_g3698.t1	CNTROB
scaffold_16	10648299	10674106	MSTRG.3937.1	CNTROB
scaffold_16	36082440	36098423	CO1A1_g4125.t1	COL1A1
scaffold_16	41819960	41820634	COA3_g4329.t1	COA3
scaffold_16	41654653	41658767	COASY_g4317.t1	COASY
scaffold_16	53974069	53989159	COG1_g4493.t1	COG1
scaffold_16	30538393	30554478	COIL_g4084.t1	COIL
scaffold_16	37865098	37873659	COPZ2_g4170.t1	COPZ2
scaffold_16	37865094	37875193	MSTRG.4376.1	COPZ2
scaffold_16	18316262	18321872	CORO6_g3908.t1	CORO6

scaffold_16	5247229	5372440	MSTRG.3887.1	COX10
scaffold_16	5247229	5372440	MSTRG.3887.2	COX10
scaffold_16	32271235	32276858	COX11_g4097.t1	COX11
scaffold_16	32270923	32276858	COX11_g4097.t2	COX11
scaffold_16	60677360	60695121	CP131_g4639.t1	CEP131
scaffold_16	60649925	60668028	CP131_g4639.t2	CEP131
scaffold_16	47508580	47513429	CQ058_g4456.t1	C17ORF58
scaffold_16	54010847	54021987	CQ080_g4495.t1	MTNAP1
scaffold_16	13324985	13325368	CQ100_g3795.t1	C17ORF100
scaffold_16	11889487	11890418	CQ107_g3764.t1	C17ORF107
scaffold_16	41253003	41256560	CQ113_g4303.t1	C17ORF113
scaffold_16	16498223	16524106	CRK_g3882.t1	CRK
scaffold_16	16498095	16524106	MSTRG.4064.1	CRK
scaffold_16	21100128	21141238	CRLF3_g3963.t2	CRLF3
scaffold_16	39603410	39605026	CSF3_g4227.t1	CSF3
scaffold_16	55951567	55962979	CSKI2_g4541.t1	CASKIN2
scaffold_16	61400627	61406050	CSN1_g4676.t1	GPS1
scaffold_16	925488	952640	CSN3_g3578.t1	CSN3
scaffold_16	61632675	61668632	MSTRG.4822.1	CSNK1D
scaffold_16	61632675	61668632	MSTRG.4822.2	CSNK1D
scaffold_16	10392028	10400222	CTC1_g3687.t1	CTC1
scaffold_16	10395113	10400222	MSTRG.3923.3	CTC1
scaffold_16	10379664	10400222	MSTRG.3923.1	CTC1
scaffold_16	14325566	14344539	MSTRG.4037.1	CTNS
scaffold_16	14325566	14344539	MSTRG.4037.2	CTNS
scaffold_16	14327920	14344539	MSTRG.4037.3	CTNS
scaffold_16	38729728	38751948	CWC25_g4197.t1	CWC25
scaffold_16	43273815	43274996	CXG1_g4383.t1	GJC1
scaffold_16	11742919	11745972	CXL16_g3756.t1	CXCL16
scaffold_16	46358195	46361000	CY561_g4426.t1	CYB561
scaffold_16	61866077	61869886	CYBC1_g4689.t1	CYBC1
scaffold_16	56809265	56817444	CYGB_g4577.t1	CYGB
scaffold_16	3011746	3151380	CYTSB_g3621.t1	SPECC1
scaffold_16	46459580	46488623	DCAF7_g4430.t1	DCAF7
scaffold_16	46459348	46493398	MSTRG.4569.2	DCAF7
scaffold_16	43463419	43471039	DCAKD_g4391.t1	DCAKD
scaffold_16	43463325	43488077	MSTRG.4532.2	DCAKD
scaffold_16	47224940	47231859	DDX5_g4451.t1	DDX5
scaffold_16	47221990	47232090	MSTRG.4588.1	DDX5
scaffold_16	47224647	47232090	MSTRG.4588.2	DDX5
scaffold_16	12366510	12379731	MSTRG.4011.1	DERL2
scaffold_16	30626849	30653080	DGKE_g4086.t1	DGKE
scaffold_16	41639834	41641739	DHB1_g4316.t1	HSD17B1
scaffold_16	25910196	25918113	DHR11_g4031.t1	DHRS11
scaffold_16	18917359	18922270	DHR13_g3922.t1	DHRS13

scaffold_16	12345817	12362468	DHX33_g3781.t1	DHX33
scaffold_16	28247740	28291217	DHX40_g4052.t1	DHX40
scaffold_16	41297753	41305663	KAT2A_g4304.t1	DHX58
scaffold_16	42276171	42306137	DHX8_g4350.t1	DHX8
scaffold_16	42276132	42306137	DHX8_g4350.t2	DHX8
scaffold_16	61118595	61126191	DIC_g4655.t1	SLC25A10
scaffold_16	11275363	11297746	DLG4_g3743.t1	DLG4
scaffold_16	11275305	11298013	MSTRG.3980.2	DLG4
scaffold_16	11282672	11298013	MSTRG.3980.4	DLG4
scaffold_16	11274942	11298013	MSTRG.3980.1	DLG4
scaffold_16	54890148	54913519	DNAI2_g4502.t1	DNAI2
scaffold_16	41206966	41235859	DNJC7_g4301.t1	DNAJC7
scaffold_16	23651888	23653000	DNLI3_g3990.t1	LIG3
scaffold_16	23669667	23688188	DNLI3_g3990.t2	LIG3
scaffold_16	16617837	16642145	DOC2B_g3884.t1	DOC2B
scaffold_16	16614283	16642145	MSTRG.4073.1	DOC2B
scaffold_16	16026628	16035369	DPH1_g3865.t1	DPH1
scaffold_16	16024659	16035369	MSTRG.4050.3	DPH1
scaffold_16	16024174	16035369	MSTRG.4050.1	DPH1
scaffold_16	16024659	16035369	MSTRG.4050.2	DPH1
scaffold_16	1565717	1604539	MSTRG.3821.1	DRC3
scaffold_16	1595718	1604539	MSTRG.3821.3	DRC3
scaffold_16	1651856	1673332	DRG2_g3591.t1	DRG2
scaffold_16	1651856	1673332	MSTRG.3827.1	DRG2
scaffold_16	456864	513084	DRS7B_g3572.t1	DHRS7B
scaffold_16	25126422	25127110	DUS14_g4024.t1	DUSP14
scaffold_16	61406780	61412600	DUS1L_g4677.t1	DUS1L
scaffold_16	61406399	61414230	MSTRG.4816.1	DUS1L
scaffold_16	61406555	61414230	MSTRG.4816.5	DUS1L
scaffold_16	61406555	61414230	MSTRG.4816.6	DUS1L
scaffold_16	42500583	42508274	DUS3_g4354.t1	DUS3L
scaffold_16	11259089	11266519	DVL2_g3741.t1	DVL2
scaffold_16	10765302	10859767	DYH2_g3705.t2	DNAH2
scaffold_16	10869065	10873011	DYH2_g3705.t3	DNAH2
scaffold_16	7199651	7489394	DYH9_g3648.t1	DNAH9
scaffold_16	44990290	45327576	EFC13_g4419.t1	EFCAB13
scaffold_16	17915937	17979911	MSTRG.4097.1	EFCAB5
scaffold_16	17933087	18050035	EFCB5_g3906.t2	EFCAB5
scaffold_16	40989580	40991209	EIF1_g4289.t1	EIF1
scaffold_16	6284782	6298553	MSTRG.3892.2	ELAC2
scaffold_16	11237612	11243029	ELP5_g3737.t1	ELP5
scaffold_16	11236727	11243029	MSTRG.3975.1	ELP5
scaffold_16	11237165	11243611	MSTRG.3975.2	ELP5
scaffold_16	14320676	14321055	EMC6_g3814.t1	EMC6
scaffold_16	35935248	35941159	EME1_g4121.t1	EME1

scaffold_16	58802385	58812045	ENASE_g4614.t1	ENGASE
scaffold_16	59944226	59958712	ENDOV_g4631.t1	ENDOV
scaffold_16	11931442	11935641	ENOB_g3769.t1	ENO3
scaffold_16	59369972	59377850	ENPP7_g4618.t1	ENPP7
scaffold_16	2209208	2254802	EPN2_g3605.t1	EPN2
scaffold_16	2209181	2254802	EPN2_g3605.t2	EPN2
scaffold_16	2172689	2256686	MSTRG.3843.1	EPN2
scaffold_16	35813689	35819447	EPN3_g4114.t1	EPN3
scaffold_16	18956197	18960059	ERAL1_g3924.t1	ERAL1
scaffold_16	39359017	39382262	ERBB2_g4217.t1	ERBB2
scaffold_16	46843389	46921835	ERN1_g4445.t1	ERN1
scaffold_16	12392532	12392897	ETAA1_g3785.t1	ETAA1
scaffold_16	42308110	42321285	ETV4_g4351.t1	ETV4
scaffold_16	56377470	56393765	EVPL_g4561.t1	EVPL
scaffold_16	56448964	56468238	EXOC7_g4565.t1	EXOC7
scaffold_16	41753915	41773236	MSTRG.4475.2	EZH1
scaffold_16	53990148	54007210	F104A_g4494.t1	F104A
scaffold_16	36446182	36487867	F117A_g4136.t1	F117A
scaffold_16	42943851	42953178	F1712_g4375.t1	FAM171A2
scaffold_16	43366754	43367887	F187A_g4387.t1	F187A
scaffold_16	43366643	43367887	F187A_g4387.t2	F187A
scaffold_16	19022746	19032078	F222B_g3925.t1	FAM222B
scaffold_16	19022686	19032078	F222B_g3925.t2	FAM222B
scaffold_16	50118999	50170381	FA20A_g4477.t1	FA20A
scaffold_16	2060387	2086109	FA83G_g3602.t1	FAM83G
scaffold_16	55452567	55474989	FADS6_g4519.t1	FADS6
scaffold_16	18964709	19034797	MSTRG.4115.1	FAM222B
scaffold_16	18964709	19034797	MSTRG.4115.2	FAM222B
scaffold_16	18996136	19032078	MSTRG.4115.3	FAM222B
scaffold_16	13141638	13146860	MSTRG.4012.1	FAM64A
scaffold_16	2060232	2086607	MSTRG.3841.1	FAM83G
scaffold_16	61437544	61458082	FAS_g4678.t1	FASN
scaffold_16	4062995	4099761	FBW10_g3633.t2	FBXW10
scaffold_16	13422319	13425591	FBX39_g3798.t3	FBX39
scaffold_16	38839893	38858430	FBX47_g4201.t1	FBX47
scaffold_16	41087153	41094624	FKB10_g4294.t1	FKB10
scaffold_16	41086578	41094624	MSTRG.4442.1	FKBP10
scaffold_16	898329	912012	FLCN_g3577.t1	FLCN
scaffold_16	897270	918085	MSTRG.3811.1	FLCN
scaffold_16	897270	918085	MSTRG.3811.2	FLCN
scaffold_16	1789960	1802950	FLII_g3595.t1	FLII
scaffold_16	1789676	1802950	MSTRG.3832.1	FLII
scaffold_16	18922410	18938566	FLOT2_g3923.t1	FLOT2
scaffold_16	18917208	18938566	MSTRG.4112.1	FLOT2
scaffold_16	18922271	18938566	MSTRG.4112.3	FLOT2

scaffold_16	43595325	43614103	FMNL1_g4397.t1	FMNL1
scaffold_16	62135994	62144663	FN3K_g4696.t1	FN3K
scaffold_16	56491825	56494844	FOXJ1_g4566.t1	FOXJ1
scaffold_16	61925372	62005129	FOXK2_g4692.t1	FOXK2
scaffold_16	60977180	60988146	FP100_g4648.t1	FP100
scaffold_16	60967510	60972926	FSCN2_g4647.t1	FSCN2
scaffold_16	39039315	39140627	FXL20_g4208.t1	FBXL20
scaffold_16	10935063	10949698	FXR2_g3709.t1	FXR2
scaffold_16	43093739	43095436	FZD2_g4378.t1	FZD2
scaffold_16	42723918	42729888	G6PC3_g4364.t1	G6PC3
scaffold_16	24170811	24177341	GA2L2_g4005.t1	GA2L2
scaffold_16	59683265	59701367	MSTRG.4756.2	GAA
scaffold_16	59683265	59701367	MSTRG.4756.3	GAA
scaffold_16	59683265	59701367	MSTRG.4756.4	GAA
scaffold_16	59683270	59701367	MSTRG.4756.5	GAA
scaffold_16	59683270	59701367	MSTRG.4756.6	GAA
scaffold_16	11243517	11253053	MSTRG.3976.1	GABARAP
scaffold_16	56170619	56177199	GALK1_g4549.t1	GALK1
scaffold_16	56440678	56442491	GALR2_g4563.t1	GALR2
scaffold_16	8762883	8982416	GAS7_g3665.t1	GAS7
scaffold_16	8881927	8984044	MSTRG.3908.2	GAS7
scaffold_16	11251109	11253053	GBRAP_g3739.t1	GBRAP
scaffold_16	58172608	58178127	GCSP_g4601.t1	GCSP
scaffold_16	61208376	61209756	GDIR1_g4660.t1	GDIR1
scaffold_16	17045060	17051406	GEMI4_g3890.t1	GEMIN4
scaffold_16	43370198	43377957	GFAP_g4388.t1	GFAP
scaffold_16	25920694	25950469	GGNB2_g4032.t1	GGNBP2
scaffold_16	13540716	13543133	GGT6_g3801.t1	GGT6
scaffold_16	41366580	41369861	GHDC_g4309.t1	GHDC
scaffold_16	1622610	1639357	GID4_g3590.t1	GID4
scaffold_16	37088586	37091988	GIP_g4148.t1	GIP
scaffold_16	18344196	18359591	GIT1_g3910.t1	GIT1
scaffold_16	17058048	17075228	GLOD4_g3893.t1	GLOD4
scaffold_16	61160689	61165413	GLR_g4656.t1	GLR
scaffold_16	11798769	11800109	GLTD2_g3760.t1	GLTD2
scaffold_16	11218333	11223442	GLUT4_g3735.t1	GLUT4
scaffold_16	1868260	1888127	GLYC_g3599.t1	SHMT1
scaffold_16	49845247	49883148	GNA13_g4471.t1	GNA13
scaffold_16	17538514	17586865	GOSR1_g3901.t1	GOSR1
scaffold_16	17534476	17586865	MSTRG.4089.1	GOSR1
scaffold_16	43943275	43959772	GOSR2_g4406.t1	GOSR2
scaffold_16	38350306	38365242	GP179_g4186.t1	GPR179
scaffold_16	11913103	11914992	GP1BA_g3765.t1	GP1BA
scaffold_16	42976829	43058911	GPTC8_g4377.t1	GPTC8
scaffold_16	2103947	2127674	GRAP_g3604.t1	GRAP2

scaffold_16	55815975	55875548	GRB2_g4539.t1	GRB2
scaffold_16	55813998	55883364	MSTRG.4675.2	GRB2
scaffold_16	55421233	55436032	MSTRG.4658.2	GRIN2C
scaffold_16	55421514	55436790	MSTRG.4658.7	GRIN2C
scaffold_16	42941963	42942964	GRN_g4374.t1	GRN
scaffold_16	39524840	39534451	GSDMB_g4222.t1	GSDMB
scaffold_16	47221710	47222009	GSTT3_g4450.t1	GSTT3
scaffold_16	56187684	56188306	H33_g4550.t1	H33
scaffold_16	41018933	41027115	HAP1_g4291.t1	HAP1
scaffold_16	24811734	24844026	HEAT6_g4019.t2	HEATR6
scaffold_16	48124339	48256291	HELZ_g4461.t1	HELZ
scaffold_16	61844809	61864252	HEXD_g4688.t1	HEXD
scaffold_16	61842351	61864252	MSTRG.4827.1	HEXD
scaffold_16	43555723	43556802	HEXI1_g4395.t1	HEXI1
scaffold_16	43569584	43570429	HEXI2_g4396.t1	HEXIM2
scaffold_16	61091933	61108390	HGS_g4653.t1	HGS
scaffold_16	16012348	16014489	HIC1_g3863.t1	HIC1
scaffold_16	55518913	55536564	HID1_g4523.t1	HID1
scaffold_16	55526365	55536564	MSTRG.4664.3	HID1
scaffold_16	43318669	43320521	HIG1B_g4384.t1	HIG1B
scaffold_16	31966280	32018144	HLF_g4094.t1	HLF
scaffold_16	55668323	55708441	MSTRG.4667.1	MTRNR2L1
scaffold_16	24933047	24944976	HNF1B_g4020.t1	HNF1B
scaffold_16	41663969	41669506	HOP2_g4319.t1	PSMC3IP
scaffold_16	37428714	37430536	HXB2_g4164.t2	HOXB2
scaffold_16	42780555	42795047	HROB_g4366.t1	HROB
scaffold_16	5162769	5162998	MSTRG.3884.1	HS3ST3B1
scaffold_16	29228373	29266697	HSF5_g4065.t1	HSF5
scaffold_16	41315358	41315840	HSPB9_g4305.t1	HSPB9
scaffold_16	37439679	37441042	HXB1_g4165.t1	HOXB1
scaffold_16	39934341	39946043	IBP4_g4238.t1	IGFBP4
scaffold_16	55566331	55573567	ICT1_g4525.t1	MRPL58
scaffold_16	37030141	37068103	IF2B1_g4147.t1	IF2B1
scaffold_16	10962022	10967785	IF4A1_g3713.t1	IF4A1
scaffold_16	11189428	11194068	IF5A1_g3733.t1	IF5A1
scaffold_16	19391052	19397217	IFT20_g3950.t1	IFT20
scaffold_16	19389179	19397217	MSTRG.4140.2	IFT20
scaffold_16	19389214	19397217	MSTRG.4140.3	IFT20
scaffold_16	19389233	19397217	MSTRG.4140.4	IFT20
scaffold_16	60825429	60832466	EDEM1_g4642.t1	IL17RA
scaffold_16	47478641	47485813	IMA1_g4455.t1	IMA1
scaffold_16	41970670	41979573	IN35_g4341.t1	IFI35
scaffold_16	16449438	16467487	INP5K_g3879.t1	INPP5K
scaffold_16	16449438	16468324	MSTRG.4063.5	INPP5K
scaffold_16	16449445	16456163	MSTRG.4063.7	INPP5K

scaffold_16	27450529	27600272	INT2_g4044.t1	INTS2
scaffold_16	27606323	27667187	INT2_g4044.t2	INTS2
scaffold_16	36189574	36216050	ITA3_g4131.t1	ITGA3
scaffold_16	14219336	14279958	ITAE_g3812.t1	ITGAE
scaffold_16	14181646	14209521	ITAE_g3812.t2	ITGAE
scaffold_16	44934068	44981909	ITB3_g4418.t1	ITGB3
scaffold_16	42965767	42968196	MSTRG.4523.2	ITGA2B
scaffold_16	35311793	35443019	JIP4_g4107.t1	JIP4
scaffold_16	35527796	35529915	JIP4_g4107.t2	JIP4
scaffold_16	56960469	56967544	JMJD6_g4582.t1	JMJD6
scaffold_16	55669826	55684704	JUPI1_g4531.t1	JPT1
scaffold_16	19123166	19149264	K0100_g3935.t1	K0100
scaffold_16	40885340	40887584	K1C14_g4285.t1	KRT14
scaffold_16	40932479	40937583	K1C17_g4287.t1	KRT17
scaffold_16	40848639	40852467	K1C19_g4284.t1	KRT19
scaffold_16	40299419	40306669	K1C20_g4248.t1	K1C20
scaffold_16	44592833	44735679	KANL1_g4415.t1	KANL1
scaffold_16	44591691	44655798	MSTRG.4552.2	KANSL1
scaffold_16	50099359	50114633	KAP0_g4476.t1	PRKAR1A
scaffold_16	41306893	41314136	KAT2A_g4304.t2	KAT2A
scaffold_16	36400667	36426912	KAT7_g4135.t1	KAT7
scaffold_16	41239783	41242847	KBRS2_g4302.t1	NKIRAS2
scaffold_16	61634716	61668632	KC1D_g4682.t1	KC1D
scaffold_16	10677281	10683167	KCAB3_g3700.t1	KCAB3
scaffold_16	11154499	11155575	KCD11_g3729.t1	KCTD11
scaffold_16	51419375	51420634	KCJ16_g4485.t1	KCJ16
scaffold_16	41344084	41360152	KCNH4_g4307.t1	KCNH4
scaffold_16	46434344	46455615	KCNH6_g4429.t1	KCNH6
scaffold_16	51454840	51456383	KCNJ2_g4486.t1	KCNJ2
scaffold_16	55593425	55606802	MSTRG.4659.3	KCTD2
scaffold_16	58121732	58140985	KFA_g4597.t1	AFMID
scaffold_16	43385782	43396697	KI18B_g4389.t1	KIF18B
scaffold_16	19123136	19149264	MSTRG.4125.1	BLTP2
scaffold_16	13258050	13313835	MSTRG.4013.2	KIAA0753
scaffold_16	13258018	13309807	MSTRG.4013.1	KIAA0753
scaffold_16	13258135	13309807	MSTRG.4013.3	KIAA0753
scaffold_16	43384504	43404392	MSTRG.4531.1	KIF18B
scaffold_16	54920581	54946589	KIF19_g4503.t1	KIF19
scaffold_16	11967656	11988107	KIF1C_g3773.t1	KIF1C
scaffold_16	11965399	11988107	MSTRG.4001.2	KIF1C
scaffold_16	11965391	11988413	MSTRG.4001.1	KIF1C
scaffold_16	14153136	14173047	KKCC1_g3811.t1	KKCC1
scaffold_16	41115381	41122147	KLH11_g4297.t1	KLHL11
scaffold_16	48490732	48614369	KPCA_g4465.t1	PRKCA
scaffold_16	48728505	48895511	KPCA_g4466.t1	PRKCA

scaffold_16	56630940	56658255	KPRA_g4572.t1	KPRA
scaffold_16	1985394	2030942	KPRB_g3600.t1	PRPSAP2
scaffold_16	40503848	40504438	KRA47_g4262.t1	KRTAP4-7
scaffold_16	10263858	10265791	KRBA2_g3681.t1	KRBA2
scaffold_16	58172506	58172913	KRI1_g4600.t1	KRI1
scaffold_16	27958695	27996246	KS6B1_g4047.t1	RPS6KB1
scaffold_16	19149724	19155681	KS6R_g3936.t1	KS6R
scaffold_16	62117620	62127466	KT3K_g4695.t1	KT3K
scaffold_16	1772333	1788337	L2GL1_g3594.t1	L2GL1
scaffold_16	55965428	55972035	L2GL2_g4543.t1	LLGL2
scaffold_16	55984484	56016050	L2GL2_g4543.t2	LLGL2
scaffold_16	43823979	43874526	L37A2_g4402.t1	LRRC37A2
scaffold_16	38790202	38825808	LASP1_g4200.t1	LASP1
scaffold_16	19900259	19912186	LEG9_g3955.t1	LEG9
scaffold_16	58721839	58733117	LG3BP_g4611.t1	LGALS3BP
scaffold_16	25615536	25620465	LHX1_g4028.t1	LHX1
scaffold_16	16829377	16832689	LIAT1_g3886.t2	LIAT1
scaffold_16	46575922	46577847	LIMD2_g4433.t1	LIMD2
scaffold_16	1772333	1789625	MSTRG.3831.4	LLGL1
scaffold_16	1772264	1789625	MSTRG.3831.1	LLGL1
scaffold_16	1772278	1789625	MSTRG.3831.2	LLGL1
scaffold_16	1772333	1789625	MSTRG.3831.3	LLGL1
scaffold_16	60593746	60607066	LMTK1_g4638.t1	LMTK1
scaffold_16	50763817	50775362	LOC000000096_g4483.t1	LOC000000096
scaffold_16	2507230	2550702	LR75A_g3612.t1	LRRC75A
scaffold_16	38027334	38031877	LRC46_g4177.t1	LRRC46
scaffold_16	35921010	35933152	LRC59_g4120.t1	LRRC59
scaffold_16	39555249	39556100	LRR3C_g4224.t1	LRR3C
scaffold_16	61350511	61358063	LRC45_g4671.t1	LRRC45
scaffold_16	42700762	42720903	LSM12_g4363.t1	LSM12
scaffold_16	10740282	10741033	LSMD1_g3703.t1	NAA38
scaffold_16	9881216	9881424	MSTRG.3914.1	LUC7L2
scaffold_16	10549798	10562951	LX15B_g3696.t1	LX15B
scaffold_16	59686430	59701367	LYAG_g4624.t1	LYAG
scaffold_16	11917687	11919909	M2OM_g3766.t1	SLC25A11
scaffold_16	43636865	43654988	M3K14_g4399.t1	MAP3K14
scaffold_16	46513036	46571462	M3K3_g4432.t1	M3K3
scaffold_16	7021793	7151628	MSTRG.3900.1	MAP2K4
scaffold_16	7068853	7151628	MSTRG.3900.3	MAP2K4
scaffold_16	2305750	2310396	MSTRG.3839.3	MAPK7
scaffold_16	2304958	2310396	MSTRG.3839.1	MAPK7
scaffold_16	2304958	2310396	MSTRG.3839.2	MAPK7
scaffold_16	3779922	3780128	MSTRG.3873.1	SLC47A1
scaffold_16	13544435	13561013	MBB1A_g3802.t1	MYBBP1A
scaffold_16	13544492	13561013	MBB1A_g3802.t2	MYBBP1A

scaffold_16	35230051	35267518	MBTD1_g4105.t1	MBTD1
scaffold_16	35233598	35267518	MSTRG.4328.5	MBTD1
scaffold_16	39145490	39167854	MED1_g4209.t1	MED1
scaffold_16	11740485	11742296	MED11_g3755.t1	MED11
scaffold_16	27676599	27768953	MED13_g4045.t1	MED13
scaffold_16	39608084	39631447	MED24_g4228.t1	MED24
scaffold_16	13318044	13324530	MED31_g3794.t1	MED31
scaffold_16	1126408	1139605	MED9_g3582.t1	MED9
scaffold_16	1126285	1139605	MSTRG.3809.1	MED9
scaffold_16	43158737	43174101	MEIOC_g4379.t1	MEIOC
scaffold_16	15637519	15709479	MET16_g3857.t1	METTL16
scaffold_16	56970390	56972851	MET23_g4583.t1	MET23
scaffold_16	62509036	62525148	MSTRG.4837.2	METRNL
scaffold_16	17075299	17088701	MSTRG.4079.2	METTL1
scaffold_16	15631586	15716530	MSTRG.4040.1	METTL16
scaffold_16	45496306	45510186	MSTRG.4557.4	METTL2A
scaffold_16	2311425	2313716	MFAP4_g3609.t1	MFAP4
scaffold_16	56977149	57002923	MFS11_g4585.t1	MFSD11
scaffold_16	9903923	9905932	MFS6L_g3675.t1	MFSD6L
scaffold_16	33617149	33617487	MGAP_g4101.t1	MGAP
scaffold_16	55771709	55774665	MI4GD_g4536.t1	MIF4GD
scaffold_16	1806346	1809845	MID49_g3596.t1	MIEF2
scaffold_16	39383357	39384370	MIEN1_g4218.t1	MIEN1
scaffold_16	11837075	11887585	MINK1_g3762.t1	MINK1
scaffold_16	11836804	11887585	MSTRG.3991.1	MINK1
scaffold_16	11836848	11887585	MSTRG.3991.2	MINK1
scaffold_16	11836860	11887585	MSTRG.3991.3	MINK1
scaffold_16	21281896	21342196	MIRO1_g3968.t1	MIRO1
scaffold_16	12384078	12385960	MIS12_g3783.t2	MIS12
scaffold_16	12380119	12385960	MSTRG.4007.1	MIS12
scaffold_16	12380629	12385960	MSTRG.4007.2	MIS12
scaffold_16	2305750	2310396	MK07_g3608.t1	MK07
scaffold_16	29462710	29475189	MKS1_g4070.t1	MKS1
scaffold_16	38646776	38667395	MSTRG.4394.3	MLLT6
scaffold_16	41659082	41663542	MLX_g4318.t1	MLX
scaffold_16	24188172	24210438	MMP28_g4006.t1	MMP28
scaffold_16	15723090	15739728	MNT_g3858.t1	MNT
scaffold_16	15730806	15739728	MSTRG.4041.2	MNT
scaffold_16	15731522	15739728	MSTRG.4041.3	MNT
scaffold_16	10342503	10344042	MOG1_g3685.t1	MOG1
scaffold_16	13259510	13308420	MOONR_g3791.t1	MOONR
scaffold_16	61625202	61629219	MOT4_g4681.t1	SLC16A3
scaffold_16	55633808	55645084	MOT6_g4528.t1	MOT6
scaffold_16	49929262	49939860	MOT7_g4473.t1	MOT7
scaffold_16	365150	391359	MP2K3_g3569.t1	MP2K3

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scaffold_16	42521598	42550404	MPP3_g4356.t1	MPP3
scaffold_16	715361	844296	MSTRG.3803.5	MPRIP
scaffold_16	10953562	10958562	MPU1_g3711.t1	MPU1
scaffold_16	45680798	45732555	MSTRG.4566.1	MRC2
scaffold_16	45680798	45732555	MSTRG.4566.3	MRC2
scaffold_16	45701998	45732555	MRC2_g4422.t1	MRC2
scaffold_16	25905338	25908666	MRM1_g4030.t1	MRM1
scaffold_16	17075296	17088794	MRM3_g3894.t1	MRM3
scaffold_16	35676944	35725714	MRP3_g4111.t1	MRP3
scaffold_16	3659615	3743479	MSTRG.3876.2	KGD4
scaffold_16	3659588	3743479	MSTRG.3876.1	MRPS36
scaffold_16	29923573	30312595	MSTRG.4303.2	MSI2
scaffold_16	29948287	30312595	MSI2H_g4081.t1	MSI2H
scaffold_16	39688076	39699926	MSL1_g4231.t1	MSL1
scaffold_16	29207413	29227846	MTMR4_g4064.t2	MTMR4
scaffold_16	56023675	56029555	MY15B_g4544.t1	MY15B
scaffold_16	56036246	56057529	MY15B_g4544.t2	MY15B
scaffold_16	18682763	18683791	MY18A_g3917.t1	MY18A
scaffold_16	18731839	18762853	MY18A_g3918.t1	MY18A
scaffold_16	35824364	35843248	MYBPP_g4115.t1	MYCBPAP
scaffold_16	8475857	8499786	MYH1_g3658.t1	MYH1
scaffold_16	10033523	10169278	MYH10_g3677.t1	MYH10
scaffold_16	10030094	10171499	MSTRG.3918.1	MYH10
scaffold_16	8663383	8676640	MYH13_g3663.t2	MYH13
scaffold_16	44900940	44913654	MYL4_g4417.t1	MYL4
scaffold_16	1682883	1735525	MYO15_g3592.t1	MYO15A
scaffold_16	56042120	56057529	MSTRG.4682.2	MYO15B
scaffold_16	18732381	18769143	MSTRG.4110.2	MYO18A
scaffold_16	18755414	18782257	MSTRG.4110.4	MYO18A
scaffold_16	18672379	18731137	MSTRG.4108.1	MYO18A
scaffold_16	18732381	18769143	MSTRG.4110.3	MYO18A
scaffold_16	25963776	26002805	MYO19_g4034.t1	MYO19
scaffold_16	16470600	16491911	MSTRG.4065.2	MYO1C
scaffold_16	16470059	16490823	MYO1C_g3880.t1	MYO1C
scaffold_16	16474826	16491911	MSTRG.4065.3	MYO1C
scaffold_16	21561202	21801130	MSTRG.4187.1	MYO1D
scaffold_16	21563484	21818227	MYO1D_g3974.t1	MYO1D
scaffold_16	6496927	6591594	MSTRG.3897.1	MYOCD
scaffold_16	6522754	6571772	MSTRG.3897.3	MYOCD
scaffold_16	42677782	42681689	NAGS_g4361.t1	NAGS
scaffold_16	55354390	55357372	NAT9_g4515.t1	NAT9
scaffold_16	412978	424923	NATD1_g3570.t1	NATD1
scaffold_16	42074516	42101153	MSTRG.4496.1	NBR1

scaffold_16	42074516	42101153	NBR1_g4347.t1	NBR1
scaffold_16	42102752	42106886	NBR1_g4347.t2	NBR1
scaffold_16	14181627	14214369	MSTRG.4027.1	NCBP3
scaffold_16	2796224	2896837	NCOR1_g3617.t1	NCOR1
scaffold_16	2801493	2896837	MSTRG.3863.3	NCOR1
scaffold_16	2801493	2899173	MSTRG.3863.4	NCOR1
scaffold_16	2834709	2896837	MSTRG.3863.5	NCOR1
scaffold_16	2842021	2880482	MSTRG.3863.6	NCOR1
scaffold_16	2859851	2927214	MSTRG.3865.1	NCOR1
scaffold_16	2877957	2927214	MSTRG.3865.2	NCOR1
scaffold_16	2886975	2927214	MSTRG.3865.3	NCOR1
scaffold_16	10178178	10201144	NDEL1_g3678.t1	NDEL1
scaffold_16	10172070	10209059	MSTRG.3916.1	NDEL1
scaffold_16	35272935	35284401	NDKB_g4106.t1	NDKB
scaffold_16	60695377	60697876	NDUF8_g4640.t1	NDUFAF8
scaffold_16	36129161	36144908	NEB2_g4128.t1	NEB2
scaffold_16	19044412	19052548	NEK8_g3927.t1	NEK8
scaffold_16	19043196	19052548	MSTRG.4118.1	NEK8
scaffold_16	13912707	13924934	NEUFC_g3807.t1	CYB5D2
scaffold_16	11173276	11185059	NEUL4_g3732.t1	NEURL4
scaffold_16	11185817	11188361	NEUL4_g3732.t2	NEURL4
scaffold_16	11173376	11185059	MSTRG.3972.2	NEURL4
scaffold_16	11173376	11185059	MSTRG.3972.3	NEURL4
scaffold_16	13310492	13311535	NEXMI_g3792.t1	NEXMI
scaffold_16	20314415	20374012	NF1_g3958.t1	NF1
scaffold_16	20471141	20626019	NF1_g3958.t2	NF1
scaffold_16	37845591	37854586	NF2L1_g4169.t1	NFE2L1
scaffold_16	37845591	37856141	MSTRG.4375.7	NFE2L1
scaffold_16	55334424	55351013	NHRF1_g4514.t1	NHRF1
scaffold_16	41124317	41166179	NIT1_g4298.t1	NIT1
scaffold_16	21428094	21438851	NJMU_g3970.t1	C17ORF75
scaffold_16	23793719	23801427	NLE1_g3994.t1	NLE1
scaffold_16	11109436	11119102	NLGN2_g3724.t1	NLGN2
scaffold_16	11122015	11122443	STON1_g3725.t1	NLGN2
scaffold_16	11109436	11122235	MSTRG.3968.1	NLGN2
scaffold_16	19418146	19582707	NLK_g3952.t1	NLK
scaffold_16	12413796	12467956	NLRP1_g3786.t1	NLRP1
scaffold_16	55421993	55436790	NMDE3_g4517.t1	NMDE3
scaffold_16	43488394	43517054	NMT1_g4392.t1	NMT1
scaffold_16	47716257	47739530	NOL11_g4458.t1	NOL11
scaffold_16	19814274	19848391	NOS2_g3954.t1	NOS2
scaffold_16	24037173	24153890	AP1B1_g4003.t1	AP1B1_g4003.t1
scaffold_16	62375176	62484381	B3GNL_g4700.t1	B3GNL_g4700.t1
scaffold_16	42019472	42020053	DUT_g4346.t1	DUT_g4346.t1
scaffold_16	61526117	61526449	FBXW9_g4680.t1	FBXW9_g4680.t1

scaffold_16	42015372	42015881	FV1_g4345.t1	FV1_g4345.t1
scaffold_16	115576	119018	GNDS_g3566.t1	GNDS_g3566.t1
scaffold_16	56569302	56580565	IP3KB_g4568.t1	IP3KB_g4568.t1
scaffold_16	544595	544822	MSTRG.3794.1	MSTRG.3794.1
scaffold_16	607606	613593	MSTRG.3799.2	MSTRG.3799.2
scaffold_16	1292553	1407938	MSTRG.3814.4	MSTRG.3814.4
scaffold_16	1322223	1322424	MSTRG.3815.1	MSTRG.3815.1
scaffold_16	1408055	1419403	MSTRG.3817.1	MSTRG.3817.1
scaffold_16	2630698	2630924	MSTRG.3853.1	MSTRG.3853.1
scaffold_16	3566999	3567227	MSTRG.3868.1	MSTRG.3868.1
scaffold_16	3584515	3592397	MSTRG.3874.3	MSTRG.3874.3
scaffold_16	4055156	4055457	MSTRG.3885.1	MSTRG.3885.1
scaffold_16	5493930	5494144	MSTRG.3890.1	MSTRG.3890.1
scaffold_16	7522717	7634316	MSTRG.3901.1	MSTRG.3901.1
scaffold_16	10408390	10408645	MSTRG.3927.1	MSTRG.3927.1
scaffold_16	10922826	10923037	MSTRG.3952.1	MSTRG.3952.1
scaffold_16	11258874	11266166	MSTRG.3978.1	MSTRG.3978.1
scaffold_16	11928841	11929052	MSTRG.3992.1	MSTRG.3992.1
scaffold_16	13544485	13561013	MSTRG.4018.2	MSTRG.4018.2
scaffold_16	15631591	15716530	MSTRG.4040.2	MSTRG.4040.2
scaffold_16	16062881	16063103	MSTRG.4053.1	MSTRG.4053.1
scaffold_16	16649547	16649885	MSTRG.4066.1	MSTRG.4066.1
scaffold_16	19206325	19206549	MSTRG.4133.1	MSTRG.4133.1
scaffold_16	19963747	19963975	MSTRG.4146.1	MSTRG.4146.1
scaffold_16	20097076	20097319	MSTRG.4147.1	MSTRG.4147.1
scaffold_16	20196558	20212370	MSTRG.4149.2	MSTRG.4149.2
scaffold_16	20471141	20629213	MSTRG.4156.4	MSTRG.4156.4
scaffold_16	21828708	21828974	MSTRG.4169.1	MSTRG.4169.1
scaffold_16	21831444	21831796	MSTRG.4170.1	MSTRG.4170.1
scaffold_16	21860537	21860792	MSTRG.4185.1	MSTRG.4185.1
scaffold_16	21859143	21859492	MSTRG.4199.1	MSTRG.4199.1
scaffold_16	23886438	23891986	MSTRG.4210.1	MSTRG.4210.1
scaffold_16	24219573	24246838	MSTRG.4219.2	MSTRG.4219.2
scaffold_16	25161069	25161294	MSTRG.4227.1	MSTRG.4227.1
scaffold_16	25045401	25121883	MSTRG.4229.2	MSTRG.4229.2
scaffold_16	25045401	25121883	MSTRG.4229.3	MSTRG.4229.3
scaffold_16	27582799	27583012	MSTRG.4254.1	MSTRG.4254.1
scaffold_16	27927195	27927440	MSTRG.4262.1	MSTRG.4262.1
scaffold_16	28352284	28352500	MSTRG.4272.1	MSTRG.4272.1
scaffold_16	28420132	28481261	MSTRG.4273.2	MSTRG.4273.2
scaffold_16	30483798	30484016	MSTRG.4304.1	MSTRG.4304.1
scaffold_16	30599223	30599469	MSTRG.4311.1	MSTRG.4311.1
scaffold_16	30604014	30604482	MSTRG.4313.1	MSTRG.4313.1
scaffold_16	31988268	31988489	MSTRG.4319.1	MSTRG.4319.1
scaffold_16	32004053	32004254	MSTRG.4320.1	MSTRG.4320.1

scaffold_16	32277945	32336332	MSTRG.4325.1	MSTRG.4325.1
scaffold_16	37255603	37255807	MSTRG.4370.1	MSTRG.4370.1
scaffold_16	41306451	41314136	MSTRG.4459.3	MSTRG.4459.3
scaffold_16	41970479	41979218	MSTRG.4486.1	MSTRG.4486.1
scaffold_16	41970510	41979573	MSTRG.4486.2	MSTRG.4486.2
scaffold_16	42183392	42190500	MSTRG.4499.1	MSTRG.4499.1
scaffold_16	43200709	43232175	MSTRG.4528.3	MSTRG.4528.3
scaffold_16	43200709	43231795	MSTRG.4528.4	MSTRG.4528.4
scaffold_16	45496300	45510186	MSTRG.4557.3	MSTRG.4557.3
scaffold_16	48407379	48407596	MSTRG.4603.1	MSTRG.4603.1
scaffold_16	48825842	48826066	MSTRG.4607.1	MSTRG.4607.1
scaffold_16	50464308	50464514	MSTRG.4630.1	MSTRG.4630.1
scaffold_16	50809156	50809387	MSTRG.4634.1	MSTRG.4634.1
scaffold_16	51580588	51580811	MSTRG.4639.1	MSTRG.4639.1
scaffold_16	54081391	54081609	MSTRG.4643.1	MSTRG.4643.1
scaffold_16	56034442	56034655	MSTRG.4679.1	MSTRG.4679.1
scaffold_16	56185212	56188856	MSTRG.4694.1	MSTRG.4694.1
scaffold_16	56834766	56840344	MSTRG.4710.3	MSTRG.4710.3
scaffold_16	59549612	59550092	MSTRG.4751.1	MSTRG.4751.1
scaffold_16	61201685	61203333	MSTRG.4796.1	MSTRG.4796.1
scaffold_16	62235836	62349004	MSTRG.4838.2	MSTRG.4838.2
scaffold_16	62349653	62349874	MSTRG.4841.1	MSTRG.4841.1
scaffold_16	10688575	10689221	RN227_g3701.t1	RN227_g3701.t1
scaffold_16	62214406	62215338	TITIN_g4698.t1	TITIN_g4698.t1
scaffold_16	475627	509003	MSTRG.3795.2	NOTHING
scaffold_16	554566	561484	MSTRG.3796.1	NOTHING
scaffold_16	614622	623571	MSTRG.3801.1	NOTHING
scaffold_16	715336	862380	MSTRG.3803.1	NOTHING
scaffold_16	715336	862380	MSTRG.3803.2	NOTHING
scaffold_16	715350	862380	MSTRG.3803.3	NOTHING
scaffold_16	715350	859265	MSTRG.3803.4	NOTHING
scaffold_16	978248	1014726	MSTRG.3806.1	NOTHING
scaffold_16	978296	1014726	MSTRG.3806.2	NOTHING
scaffold_16	1803122	1809845	MSTRG.3833.1	NOTHING
scaffold_16	3581911	3593346	MSTRG.3874.2	NOTHING
scaffold_16	3712752	3742415	MSTRG.3876.5	NOTHING
scaffold_16	10716534	10726036	MSTRG.3943.1	NOTHING
scaffold_16	16283646	16291479	MSTRG.4060.1	NOTHING
scaffold_16	61292709	61299291	NOTUM_g4668.t1	NOTUM
scaffold_16	60993147	61057703	NPL4_g4649.t1	NPL4
scaffold_16	2742225	2795244	MSTRG.3858.1	NPM1
scaffold_16	59996165	60001848	NPTX1_g4632.t1	NPTX1
scaffold_16	39663309	39667156	NR1D1_g4230.t1	NR1D1
scaffold_16	44092702	44236767	NSF_g4409.t1	NSF
scaffold_16	17851024	17926018	MSTRG.4096.1	NSRP1

scaffold_16	17851694	17925655	MSTRG.4096.2	NSRP1
scaffold_16	55665684	55666196	MSTRG.4665.2	NT5C
scaffold_16	55665259	55666721	NT5C_g4530.t1	NT5C
scaffold_16	978296	1014220	NT5M_g3579.t1	NT5M
scaffold_16	18595190	18617780	NUFP2_g3914.t1	NUFIP2
scaffold_16	55719262	55750215	NUP85_g4533.t1	NUP85
scaffold_16	12291737	12323103	NUP88_g3778.t1	NUP88
scaffold_16	12291480	12323386	MSTRG.4005.1	NUP88
scaffold_16	12291503	12323386	MSTRG.4005.2	NUP88
scaffold_16	17089260	17232140	NXN_g3895.t1	NXN
scaffold_16	36595024	36597910	NXPH3_g4139.t1	NXPH3
scaffold_16	41175927	41196582	ODAD4_g4299.t1	ODAD4
scaffold_16	61815392	61842602	OGFD3_g4687.t1	OGFD3
scaffold_16	41362999	41364211	OREX_g4308.t1	HCRT
scaffold_16	39539086	39540725	ORML3_g4223.t1	ORMDL3
scaffold_16	38040775	38053447	OSBL7_g4179.t1	OSBL7
scaffold_16	55498219	55505178	OTOP2_g4521.t1	OTOP2
scaffold_16	14315222	14316099	MSTRG.4032.1	P2RX5
scaffold_16	10895666	10900201	P53_g3706.t1	TP53
scaffold_16	61263716	61267083	P5CR1_g4666.t1	P5CR1
scaffold_16	61274416	61277698	P5CR1_g4666.t2	P5CR1
scaffold_16	18360661	18364361	P5I13_g3911.t1	TP53I13
scaffold_16	15482986	15553648	MSTRG.4039.1	PAFAH1B1
scaffold_16	15482986	15553648	MSTRG.4039.2	PAFAH1B1
scaffold_16	42631767	42632440	PAHO_g4359.t1	PAHO
scaffold_16	31893533	31919378	PAQRB_g4093.t1	MMD
scaffold_16	19328447	19334791	PCFT_g3943.t1	SLC46A1
scaffold_16	38672574	38682407	MSTRG.4400.2	PCGF2
scaffold_16	38674382	38684772	MSTRG.4400.3	PCGF2
scaffold_16	61245880	61252741	PCY2_g4664.t1	PCYT2
scaffold_16	17180079	17180579	PDES1_g3896.t1	PEDS1
scaffold_16	61189301	61201110	PDIA1_g4659.t1	PDIA1
scaffold_16	19369164	19377343	PDIP2_g3947.t1	PDIP2
scaffold_16	36166974	36181404	DCTN1_g4130.t1	PDK2
scaffold_16	47081717	47134954	PECA1_g4447.t1	PECAM1
scaffold_16	11697020	11719347	PELP1_g3753.t1	PELP1
scaffold_16	1146466	1232272	PEMT_g3584.t1	PEMT
scaffold_16	1146227	1165279	MSTRG.3813.1	PEMT
scaffold_16	10470911	10480451	PER1_g3692.t1	PER1
scaffold_16	10465237	10480451	MSTRG.3936.1	PER1
scaffold_16	10467159	10480451	MSTRG.3936.2	PER1
scaffold_16	29402924	29427611	PERL_g4069.t1	PERL
scaffold_16	24022781	24025224	PEX12_g4002.t1	PEX12
scaffold_16	45650101	45666135	MSTRG.4563.4	PEX3
scaffold_16	10356736	10374175	MSTRG.3922.1	PFAS

scaffold_16	10356741	10374175	MSTRG.3922.2	PFAS
scaffold_16	39336569	39349187	PGAP3_g4216.t1	PGAP3
scaffold_16	58271400	58304863	PGPS1_g4603.t1	PGPS1
scaffold_16	58271401	58310706	MSTRG.4736.3	PGS1
scaffold_16	36730217	36739102	PHB_g4141.t1	PHB1
scaffold_16	22181114	22181341	PHC1_g3979.t1	PHC1
scaffold_16	18877221	18914784	PHF12_g3921.t1	PHF12
scaffold_16	11254146	11256856	PHF23_g3740.t1	PHF23
scaffold_16	11256857	11258624	PHF23_g3740.t2	PHF23
scaffold_16	9809783	9838386	PI3R5_g3673.t1	PI3R5
scaffold_16	9861458	9900237	PI3R6_g3674.t1	PI3R6
scaffold_16	2664370	2741326	PIGL_g3616.t1	PIGL
scaffold_16	2663261	2741326	MSTRG.3856.1	PIGL
scaffold_16	19190701	19204982	PIGS_g3938.t1	PIGS
scaffold_16	13142310	13145836	PIMRE_g3789.t1	PIMRE
scaffold_16	8200618	8201025	PIRT_g3652.t1	PIRT
scaffold_16	8200612	8201025	PIRT_g3652.t2	PIRT
scaffold_16	47760362	47998319	PITC1_g4459.t1	PITC1
scaffold_16	16429760	16446151	MSTRG.4063.4	PITPNA
scaffold_16	16409645	16468324	MSTRG.4063.1	PITPNA
scaffold_16	16426674	16453271	MSTRG.4063.3	PITPNA
scaffold_16	41726212	41734669	PKHH3_g4323.t1	PKHH3
scaffold_16	43734077	43744489	PKHM1_g4401.t1	PLEKHM1
scaffold_16	43757469	43759708	PKHM1_g4401.t2	PLEKHM1
scaffold_16	43765979	43781112	PKHM1_g4401.t3	PLEKHM1
scaffold_16	55214535	55215319	TEFM_g4511.t1	PLAGL1
scaffold_16	41046583	41069152	PLAK_g4292.t1	PLAK
scaffold_16	43524223	43541936	PLCD3_g4393.t1	PLCD3
scaffold_16	11809181	11811093	PLD2_g3761.t1	PLD2
scaffold_16	11819818	11831614	PLD2_g3761.t2	PLD2
scaffold_16	11819378	11831614	MSTRG.3990.1	PLD2
scaffold_16	41727665	41728704	MSTRG.4474.3	PLEKHH3
scaffold_16	11130800	11134315	PLS3_g3727.t1	PLS3
scaffold_16	38895175	38953832	MSTRG.4405.3	PLXDC1
scaffold_16	4393265	4420808	PMP22_g3638.t1	PMP22
scaffold_16	4391532	4420808	MSTRG.3881.1	PMP22
scaffold_16	39332640	39334222	PNMT_g4215.t1	PNMT
scaffold_16	39332493	39334222	PNMT_g4215.t2	PNMT
scaffold_16	37938727	37943605	PNPO_g4173.t1	PNPO
scaffold_16	11032374	11058009	MSTRG.3961.1	POLR2A
scaffold_16	31482547	31616091	PPCT_g4089.t1	PCTP
scaffold_16	54673294	54688108	PPR3B_g4499.t1	PPP1R3B
scaffold_16	1020253	1020519	PPR3E_g3580.t1	PPP1R3E
scaffold_16	57033990	57039029	PR2A1_g4586.t1	PR2A1
scaffold_16	19069964	19077974	PRCA1_g3932.t1	PRCA1

scaffold_16	19069839	19077974	MSTRG.4122.1	PROCA1
scaffold_16	16307662	16337948	PRP8_g3873.t1	PRP8
scaffold_16	16307388	16337948	MSTRG.4061.1	PRPF8
scaffold_16	16307392	16337948	MSTRG.4061.2	PRPF8
scaffold_16	1980071	2030942	MSTRG.3836.1	PRPSAP2
scaffold_16	1980071	2030942	MSTRG.3836.2	PRPSAP2
scaffold_16	1980071	2030942	MSTRG.3836.3	PRPSAP2
scaffold_16	1980071	2030942	MSTRG.3836.4	PRPSAP2
scaffold_16	1980082	2030942	MSTRG.3836.5	PRPSAP2
scaffold_16	28589571	28612805	MSTRG.4277.1	PRR11
scaffold_16	28592882	28603891	PRR11_g4057.t1	PRR11
scaffold_16	46682984	46687506	PRS8_g4438.t1	PRS8
scaffold_16	38212883	38297870	PSA_g4184.t1	PSA
scaffold_16	38689076	38698080	PSB3_g4195.t1	PSB3
scaffold_16	21519064	21549621	PSD11_g3972.t1	PSMD11
scaffold_16	41948061	41952707	PTG3L_g4338.t1	PTGES3L
scaffold_16	56834795	56838271	PTSS2_g4578.t1	PTSS2
scaffold_16	10357001	10371837	PUR4_g3686.t1	PUR4
scaffold_16	61270880	61278146	MSTRG.4807.1	PYCR1
scaffold_16	61271986	61278146	MSTRG.4807.3	PYCR2
scaffold_16	61271986	61278146	MSTRG.4807.4	PYCR2
scaffold_16	2497	13359	PYRD2_g3564.t1	PYROXD2
scaffold_16	56593627	56607026	QRIC2_g4570.t1	QRICH2
scaffold_16	56593627	56607026	QRIC2_g4570.t2	QRICH2
scaffold_16	56611854	56627419	QRIC2_g4571.t1	QRICH2
scaffold_16	16039603	16105306	R4RL1_g3866.t1	R4RL1
scaffold_16	28990308	29032665	RA51C_g4060.t1	RA51C
scaffold_16	23768384	23782240	RA51D_g3992.t1	RAD51D
scaffold_16	19063276	19066324	RAB34_g3931.t1	RAB34
scaffold_16	41317496	41321695	RAB5C_g4306.t1	RAB5C
scaffold_16	12174807	12288976	RABE1_g3777.t1	RABEP1
scaffold_16	12174615	12288976	MSTRG.4003.1	RABEP1
scaffold_16	12174807	12288976	MSTRG.4003.3	RABEP1
scaffold_16	61359227	61361794	RAC3_g4672.t1	RAC3
scaffold_16	50847548	50847775	MSTRG.4635.1	RAD9B
scaffold_16	1288180	1407938	MSTRG.3814.2	RAI1
scaffold_16	1288180	1407938	MSTRG.3814.3	RAI1
scaffold_16	41792821	41794411	RAMP2_g4326.t1	RAMP2
scaffold_16	10342503	10344042	MSTRG.3921.2	RANGRF
scaffold_16	39846896	39861165	RARA_g4235.t1	RARA
scaffold_16	1141167	1142281	RASD1_g3583.t1	RASD1
scaffold_16	24219658	24247930	RBP56_g4007.t1	TAF15
scaffold_16	43874993	43882947	RDM1_g4403.t1	RDM1
scaffold_16	56058191	56092830	RECQ5_g4545.t1	RECQL5
scaffold_16	24363074	24367524	REG1_g4012.t1	REG1

scaffold_16	41671346	41689650	RETR3_g4320.t1	RETR3
scaffold_16	16133007	16196987	RFA1_g3867.t1	RFA1
scaffold_16	23692848	23759779	MSTRG.4207.2	RFFL
scaffold_16	23693383	23702581	RFFL_g3991.t1	RFFL
scaffold_16	20720848	20757246	RFIP4_g3959.t1	RAB11FIP4
scaffold_16	16846997	16852723	RFLB_g3887.t1	RFLB
scaffold_16	61397026	61400484	RFNG_g4675.t1	RFNG
scaffold_16	49681370	49792303	RGS9_g4470.t1	RGS9
scaffold_16	19194304	19196569	RHBD3_g3939.t1	RHBDD3
scaffold_16	21375178	21420876	RHBL3_g3969.t1	RHBDL3
scaffold_16	56762234	56771646	RHDF2_g4576.t1	RHBDF2
scaffold_16	38441757	38490610	RHG23_g4188.t1	RHG23
scaffold_16	6300015	6480182	RHG44_g3644.t1	RHG44
scaffold_16	21281750	21342196	MSTRG.4163.1	RHOT1
scaffold_16	21281750	21342196	MSTRG.4163.2	RHOT1
scaffold_16	21281779	21342196	MSTRG.4163.3	RHOT1
scaffold_16	21281788	21342196	MSTRG.4163.4	RHOT1
scaffold_16	16338715	16343944	RILP_g3874.t1	RILP
scaffold_16	29357625	29380094	RIMB1_g4068.t1	RIMB1
scaffold_16	12323504	12335709	RIP_g3779.t1	RPAIN
scaffold_16	30498623	30525728	RISC_g4083.t1	SCPEP1
scaffold_16	38988016	38992483	RL19_g4205.t1	RPL19
scaffold_16	19057439	19061066	RL23A_g3929.t1	RPL23A
scaffold_16	41966104	41969021	RL27_g4340.t1	RPL27
scaffold_16	38032348	38037365	RM10_g4178.t1	MRPL10
scaffold_16	61109950	61113807	RM12_g4654.t1	RM12
scaffold_16	35942612	35948208	RM27_g4122.t1	MRPL27
scaffold_16	56286026	56290858	RM38_g4556.t1	MRPL38
scaffold_16	38328836	38345676	RM45_g4185.t1	MRPL45
scaffold_16	38328767	38345676	RM45_g4185.t2	MRPL45
scaffold_16	2337832	2343163	RN112_g3610.t1	RN112
scaffold_16	21258538	21270896	RN135_g3967.t1	RN135
scaffold_16	11920890	11924736	RN167_g3767.t1	RNF167
scaffold_16	59880310	59939490	RN213_g4630.t1	RNF213
scaffold_16	10245300	10245929	RN222_g3679.t1	RN222
scaffold_16	11455121	11458110	BAP18_g3749.t1	RNASEK
scaffold_16	41988335	41993273	RND2_g4343.t1	RND2
scaffold_16	59818295	59939490	MSTRG.4764.3	RNF213
scaffold_16	29273730	29331195	RNF43_g4066.t1	RNF43
scaffold_16	27942473	27955099	MSTRG.4263.2	RNFT1
scaffold_16	27943950	27955099	RNFT1_g4046.t1	RNFT1
scaffold_16	11458111	11459573	RNK_g3750.t1	RNASEK
scaffold_16	6275689	6298553	RNZ2_g3643.t1	ELAC2
scaffold_16	39726925	39730340	RPGFL_g4233.t1	RPGFL
scaffold_16	39731265	39738693	RPGFL_g4233.t2	RPGFL

scaffold_16	15195742	15416371	RPGP2_g3853.t1	RAP1GAP2
scaffold_16	16666037	16808047	MSTRG.4069.1	RPH3AL
scaffold_16	16668892	16782374	MSTRG.4069.3	RPH3AL
scaffold_16	60052989	60464641	RPTOR_g4633.t1	RPTOR
scaffold_16	21675085	21675336	RRS1_g3975.t1	RRS1
scaffold_16	60219981	60220841	RS2_g4634.t1	RS2
scaffold_16	38613457	38613867	RS6_g4191.t1	RPS6
scaffold_16	35858839	35865555	MSTRG.4341.2	RSAD1
scaffold_16	35858974	35865555	MSTRG.4341.3	RSAD1
scaffold_16	35859481	35865555	RSAD1_g4116.t1	RSAD1
scaffold_16	55767965	55771359	RT07_g4535.t1	MRPS7
scaffold_16	55767866	55771359	RT07_g4535.t2	MRPS7
scaffold_16	29791847	29798329	RT23_g4079.t1	MRPS23
scaffold_16	41952770	41961654	RUND1_g4339.t1	RUND1
scaffold_16	19256244	19277584	S13A2_g3942.t1	SLC13A2
scaffold_16	10339216	10341957	S2535_g3684.t1	SLC25A35
scaffold_16	42916572	42919593	S2539_g4373.t1	S2539
scaffold_16	59785672	59810340	S2611_g4628.t1	SLC26A11
scaffold_16	56093629	56130393	S30BP_g4547.t1	SAP30BP
scaffold_16	56093365	56130393	S30BP_g4547.t2	SAP30BP
scaffold_16	36491262	36497304	S35B1_g4137.t1	S35B1
scaffold_16	60701915	60743277	S38AA_g4641.t1	SLC38A10
scaffold_16	3744764	3779459	S47A1_g3628.t1	SLC47A1
scaffold_16	3571082	3595874	S47A2_g3625.t1	SLC47A2
scaffold_16	19338630	19355196	SARM1_g3944.t1	SARM1
scaffold_16	10925141	10926635	SAT2_g3708.t1	SAT2
scaffold_16	10924898	10933155	MSTRG.3950.1	SAT2
scaffold_16	2043301	2064794	SC5AA_g3601.t1	SLC5A10
scaffold_16	41080043	41086012	SC65_g4293.t1	SC65
scaffold_16	10698193	10698429	MSTRG.3942.1	SCARNA21
scaffold_16	8323887	8339451	MSTRG.3906.3	SCO1
scaffold_16	8323692	8339451	SCO1_g3655.t1	SCO1
scaffold_16	8323669	8339451	MSTRG.3906.1	SCO1
scaffold_16	38023122	38026252	SCRN2_g4176.t1	SCRN2
scaffold_16	19112181	19119074	SDF2_g3934.t1	SDF2
scaffold_16	57285310	57337428	MSTRG.4722.1	SEC14L1
scaffold_16	10969145	10975569	SENP3_g3714.t1	SENP3
scaffold_16	10967904	10976608	MSTRG.3959.1	SENP3
scaffold_16	29190519	29202354	SEPT4_g4062.t1	SEPTIN4
scaffold_16	57440539	57546965	SEPT9_g4590.t1	SEPTIN9
scaffold_16	18828167	18872540	SEZ6_g3920.t1	SEZ6
scaffold_16	25212416	25490553	MSTRG.4233.2	SFMBT2
scaffold_16	19151297	19155681	MSTRG.4129.3	RSKR
scaffold_16	19397217	19404343	SGMR2_g3951.t1	SGMR2
scaffold_16	59775598	59784452	MSTRG.4758.2	SGSH

scaffold_16	15743790	15776692	SGSM2_g3859.t1	SGSM2
scaffold_16	15742133	15749376	MSTRG.4042.1	SGSM2
scaffold_16	7529978	7817716	MSTRG.3901.2	SHISA6
scaffold_16	7529978	7817716	MSTRG.3901.3	SHISA6
scaffold_16	7817013	7843935	MSTRG.3903.1	SHISA6
scaffold_16	1865793	1894709	MSTRG.3844.1	SHMT1
scaffold_16	14344982	14370073	SHPK_g3817.t1	SHPK
scaffold_16	56842134	56854337	SIA7B_g4579.t1	ST6GALNAC2
scaffold_16	61253763	61259244	SIR7_g4665.t1	SIRT7
scaffold_16	37759905	37768000	SKAP1_g4166.t2	SKAP1
scaffold_16	61617460	61629219	MSTRG.4818.2	SLC16A3
scaffold_16	55632507	55645084	MSTRG.4666.2	SLC16A5
scaffold_16	55632507	55645084	MSTRG.4666.3	SLC16A5
scaffold_16	55636663	55645084	MSTRG.4666.6	SLC16A5
scaffold_16	16360255	16403258	MSTRG.4062.2	SLC43A2
scaffold_16	16360171	16403258	MSTRG.4062.1	SLC43A2
scaffold_16	16360714	16403258	MSTRG.4062.3	SLC43A2
scaffold_16	16360722	16403258	MSTRG.4062.4	SLC43A2
scaffold_16	3674869	3743288	MSTRG.3876.4	SLC47A2
scaffold_16	3674852	3743479	MSTRG.3876.3	SLC47A2
scaffold_16	2086934	2102414	SC5AA_g3603.t1	SLC5A10
scaffold_16	23850031	23883230	SLFN5_g3996.t1	SLFN5
scaffold_16	23900623	23957000	SLFN9_g3997.t1	SLFN9
scaffold_16	23980225	23981573	SLN13_g3998.t1	SLFN13
scaffold_16	24004464	24005177	SLN14_g4000.t1	SLFN14
scaffold_16	40074478	40092076	SMCE1_g4241.t1	SMARCE1
scaffold_16	1853866	1862902	SMCR8_g3598.t1	SMCR8
scaffold_16	28579051	28583732	SMG8_g4056.t1	SMG8
scaffold_16	56070512	56071293	SMIM5_g4546.t1	SMIM5
scaffold_16	46688352	46696988	SMRD2_g4439.t1	SMARCD2
scaffold_16	47285958	47343092	SMUF2_g4453.t1	SMUF2
scaffold_16	16198666	16223696	MSTRG.4055.1	SMYD4
scaffold_16	16234018	16240545	MSTRG.4057.1	SMYD4
scaffold_16	58103462	58106501	SNG2L_g4595.t1	SNG2L
scaffold_16	37801203	37813266	SNX11_g4167.t1	SNX11
scaffold_16	58257472	58258249	SOCS3_g4602.t1	SOCS3
scaffold_16	38372223	38394188	SOCS7_g4187.t1	SOCS7
scaffold_16	18782914	18794493	SOX_g3919.t1	SOX
scaffold_16	10951396	10952717	SOX15_g3710.t1	SOX15
scaffold_16	37951407	37977051	SP2_g4174.t1	SP2
scaffold_16	38015623	38016753	SP6_g4175.t1	SP6
scaffold_16	19160128	19188772	MSTRG.4131.2	SPAG5
scaffold_16	19160201	19184931	SPAG5_g3937.t1	SPAG5
scaffold_16	19186367	19188772	SPAG5_g3937.t2	SPAG5
scaffold_16	11936849	11940835	SPAG7_g3770.t1	SPAG7

scaffold_16	3083131	3151380	MSTRG.3861.2	SPECC1
scaffold_16	3108325	3193240	MSTRG.3861.3	SPECC1
scaffold_16	11093187	11094818	SPEM3_g3721.t1	SPEM3
scaffold_16	56681209	56685383	MSTRG.4707.1	SPHK1
scaffold_16	56682989	56685383	SPHK1_g4573.t1	SPHK1
scaffold_16	59776409	59784452	SPHM_g4627.t1	SGSH
scaffold_16	13562756	13596276	SPNS2_g3803.t1	SPNS2
scaffold_16	36558719	36578399	SPOP_g4138.t1	SPOP
scaffold_16	35801550	35809389	SPT20_g4113.t1	SPT20
scaffold_16	29334192	29339406	SPT4H_g4067.t1	SUPT4H1
scaffold_16	19080020	19103004	SPT6H_g3933.t1	SUPT6H
scaffold_16	1410071	1430404	SRBP1_g3586.t1	SRBP1
scaffold_16	38503827	38571628	SRCN1_g4189.t1	SRCIN1
scaffold_16	16344808	16355508	SREC_g3875.t1	SREC
scaffold_16	56402958	56436263	SRP68_g4562.t1	SRP68
scaffold_16	15787767	15793756	SRR_g3861.t1	SRR
scaffold_16	15782054	15787684	MSTRG.4043.4	SRR
scaffold_16	15787713	15793583	MSTRG.4044.1	SRR
scaffold_16	29656913	29659117	SRSF1_g4077.t1	SRSF1
scaffold_16	56975107	56976176	SRSF2_g4584.t1	SRSF2
scaffold_16	18207892	18307660	SSH2_g3907.t1	SSH2
scaffold_16	18060833	18311763	MSTRG.4099.1	SSH2
scaffold_16	56880387	56898577	SIA7A_g4580.t2	ST6GALNAC3
scaffold_16	41446969	41465377	STA5A_g4311.t1	STAT5A
scaffold_16	41446918	41465377	STA5A_g4311.t2	STAT5A
scaffold_16	38998925	39010125	STAC2_g4206.t1	STAC2
scaffold_16	39318344	39329559	STAR3_g4213.t1	STAR3
scaffold_16	41468725	41529912	STAT3_g4312.t1	STAT3
scaffold_16	41445148	41465377	MSTRG.4464.1	STAT5A
scaffold_16	41445251	41465377	MSTRG.4464.2	STAT5A
scaffold_16	41380840	41390146	MSTRG.4463.4	STAT5B
scaffold_16	46581101	46599749	STRAA_g4434.t1	STRADA
scaffold_16	46579377	46609211	MSTRG.4573.2	STRADA
scaffold_16	46579535	46609211	MSTRG.4573.3	STRADA
scaffold_16	46580153	46609211	MSTRG.4573.5	STRADA
scaffold_16	9275307	9515898	MSTRG.3910.2	STX8
scaffold_16	9275268	9515898	STX8_g3671.t1	STX8
scaffold_16	32113805	32258725	STXB4_g4096.t1	STXB4
scaffold_16	55694137	55708441	SUMO2_g4532.t1	SUMO2
scaffold_16	19078762	19111871	MSTRG.4123.2	SUPT6H
scaffold_16	19078803	19111871	MSTRG.4123.3	SUPT6H
scaffold_16	19078803	19111871	MSTRG.4123.4	SUPT6H
scaffold_16	19078762	19111871	MSTRG.4123.1	SUPT6H
scaffold_16	21045189	21084696	SUZ12_g3962.t1	SUZ12
scaffold_16	25056510	25121883	SYNRG_g4023.t1	SYNRG

scaffold_16	11777248	11794760	T4S5_g3758.t1	T4S5
scaffold_16	46498976	46504358	TACO1_g4431.t1	TACO1
scaffold_16	46498832	46504358	TACO1_g4431.t2	TACO1
scaffold_16	25163513	25207382	MSTRG.4232.2	TADA2A
scaffold_16	45951735	46353172	MSTRG.4567.1	TANC2
scaffold_16	46182460	46353172	TANC2_g4425.t1	TANC2
scaffold_16	18386428	18465888	TAOK1_g3913.t1	TAOK1
scaffold_16	18375246	18524261	MSTRG.4104.1	TAOK1
scaffold_16	44562221	44585916	TAU_g4414.t1	TAU
scaffold_16	10453723	10454175	TBB5_g3690.t1	TUBB
scaffold_16	10454979	10455287	TBB5_g3691.t1	TUBB
scaffold_16	59554640	59615992	TBC16_g4622.t1	TBC1D16
scaffold_16	62146703	62349004	TBCD_g4697.t1	TBCD
scaffold_16	59818038	59831872	TBCD4_g4629.t1	TBCD4
scaffold_16	27997606	28022124	TBD_g4048.t1	TUBD1
scaffold_16	41690034	41694821	TBG1_g4321.t1	TBG1
scaffold_16	41720617	41725063	TBG2_g4322.t1	TBG2
scaffold_16	38136724	38151601	TBKB1_g4182.t1	TBKB1
scaffold_16	27157168	27165434	TBX2_g4043.t1	TBX2
scaffold_16	27210445	27236560	TBX2_g4043.t2	TBX2
scaffold_16	38104523	38114484	TBX21_g4181.t1	TBX21
scaffold_16	23622489	23651708	TCPW_g3989.t1	TCPW
scaffold_16	13435205	13462636	TEKT1_g3799.t1	TEKT1
scaffold_16	39958455	39974773	TENS4_g4239.t1	TENS4
scaffold_16	60676033	60695121	MSTRG.4775.5	TEPSIN
scaffold_16	29035296	29160689	TEX14_g4061.t1	TEX14
scaffold_16	46941515	47002685	TEX2_g4446.t1	TEX2
scaffold_16	32018391	32018675	TF3C1_g4095.t1	GTF3C1
scaffold_16	39650820	39660430	THA_g4229.t1	THRA
scaffold_16	90852	91197	THAP4_g3565.t1	THAP4
scaffold_16	90852	114614	MSTRG.3786.1	THAP4
scaffold_16	61230675	61234152	THOC4_g4661.t1	ALYREF
scaffold_16	17249594	17255353	TIM22_g3897.t1	TIM22
scaffold_16	17249536	17255353	MSTRG.4080.1	TIMM22
scaffold_16	17249776	17255353	MSTRG.4080.3	TIMM22
scaffold_16	58641022	58689351	TIMP2_g4609.t1	TIMP2
scaffold_16	25961168	25963775	TITIN_g4033.t1	TTN
scaffold_16	36384183	36389515	TKN4_g4134.t1	TKN4
scaffold_16	17035751	17043813	TLC3A_g3889.t1	TLC3A
scaffold_16	19054970	19056575	TLCD1_g3928.t1	TLCD1
scaffold_16	45533211	45669955	TLK2_g4421.t1	TLK2
scaffold_16	42684349	42687273	TM101_g4362.t1	TMEM101
scaffold_16	55357944	55417318	TM104_g4516.t1	TMEM104
scaffold_16	10443642	10445435	TM107_g3689.t1	TM107
scaffold_16	19365623	19368962	TM199_g3946.t1	TMEM199

scaffold_16	1441659	1565192	TM1L2_g3587.t1	TOM1L2
scaffold_16	8292414	8307821	TM220_g3653.t1	TMEM220
scaffold_16	11123069	11124028	TM256_g3726.t1	TM256
scaffold_16	58056606	58079035	MSTRG.4727.3	TMC6
scaffold_16	58058345	58079035	MSTRG.4727.6	TMC6
scaffold_16	58058652	58073267	TMC6_g4592.t1	TMC6
scaffold_16	58078075	58086132	TMC8_g4593.t1	TMC8
scaffold_16	10445332	10454893	MSTRG.3932.1	TMEM107
scaffold_16	10742935	10754681	MSTRG.3955.2	TMEM88
scaffold_16	10742968	10755496	MSTRG.3955.5	TMEM88
scaffold_16	10742935	10754681	MSTRG.3955.1	TMEM88
scaffold_16	10742935	10755496	MSTRG.3955.3	TMEM88
scaffold_16	10742935	10754681	MSTRG.3955.4	TMEM88
scaffold_16	437835	451891	TMM11_g3571.t1	TMEM11
scaffold_16	10742015	10742632	TMM88_g3704.t1	TMM88
scaffold_16	55926348	55951508	TMM94_g4540.t1	TMM94
scaffold_16	21897367	21906598	TMM98_g3976.t1	TMEM98
scaffold_16	42811833	42815821	TMUB2_g4368.t1	TMUB2
scaffold_16	10981356	10988667	TNF12_g3715.t1	TNFSF12
scaffold_16	605141	613593	MSTRG.3799.1	TNFRSF13B
scaffold_16	10980751	10982136	MSTRG.3960.1	TNFSF12
scaffold_16	11130053	11135017	MSTRG.3970.2	TNK1
scaffold_16	11135626	11140699	TNK1_g3728.t1	TNK1
scaffold_16	11129515	11135017	MSTRG.3970.1	TNK1
scaffold_16	57996674	58051257	TNR6C_g4591.t1	TNR6C
scaffold_16	57996570	58053475	MSTRG.4725.2	TNRC6C
scaffold_16	35525579	35530562	MSTRG.4332.1	TOB1
scaffold_16	32278604	32336332	TM1L1_g4098.t1	TOM1L1
scaffold_16	1437600	1565192	MSTRG.3818.1	TOM1L2
scaffold_16	39888258	39913229	TOP2A_g4237.t1	TOP2A
scaffold_16	1812442	1853075	MSTRG.3838.1	TOP3A
scaffold_16	1812442	1853075	MSTRG.3838.2	TOP3A
scaffold_16	1816016	1853075	TOP3A_g3597.t1	TOP3A
scaffold_16	10887766	10900201	MSTRG.3949.1	TP53
scaffold_16	18360463	18364361	MSTRG.4102.2	TP53I13
scaffold_16	55778225	55789079	TPC_g4537.t1	TPC
scaffold_16	10674825	10676335	TPPC1_g3699.t1	TPPC1
scaffold_16	613594	628779	TR13B_g3574.t1	TR13B
scaffold_16	19037410	19043024	TRAF4_g3926.t1	TRAF4
scaffold_16	19037271	19043024	MSTRG.4117.1	TRAF4
scaffold_16	10674681	10676335	MSTRG.3938.1	TRAPPC1
scaffold_16	4033268	4052528	TRI16_g3632.t1	TRIM16
scaffold_16	4033157	4052528	TRI16_g3632.t2	TRIM16
scaffold_16	30577653	30593822	TRI25_g4085.t1	TRI25
scaffold_16	56268691	56272968	TRI47_g4554.t1	TRI47

scaffold_16	56279461	56283578	TRI65_g4555.t1	TRIM65
scaffold_16	56278245	56283578	MSTRG.4692.2	TRIM65
scaffold_16	14387708	14410253	TRPV1_g3818.t1	TRPV1
scaffold_16	2556315	2573298	TRPV2_g3613.t1	TRPV2
scaffold_16	55965428	55972035	MSTRG.4676.1	TSEN54
scaffold_16	15777942	15787684	TSR1_g3860.t1	TSR1
scaffold_16	15777927	15787684	MSTRG.4043.1	TSR1
scaffold_16	15777927	15787684	MSTRG.4043.2	TSR1
scaffold_16	2900361	2927214	TTC19_g3618.t1	TTC19
scaffold_16	2898139	2927214	MSTRG.3865.4	TTC19
scaffold_16	2801493	2899624	MSTRG.3863.2	TTC19
scaffold_16	2918993	2927214	MSTRG.3865.6	TTC19
scaffold_16	37212283	37246998	TTLL6_g4153.t1	TTLL6
scaffold_16	54834056	54872699	TTYH2_g4501.t1	TTYH2
scaffold_16	4101831	4130478	TV23B_g3634.t1	TV23B
scaffold_16	4106717	4130478	MSTRG.3883.2	TVP23B
scaffold_16	14321628	14325563	TX1B3_g3815.t1	TX1B3
scaffold_16	13314257	13316692	TXD17_g3793.t1	TXNDC17
scaffold_16	13313957	13316692	TXD17_g3793.t2	TXNDC17
scaffold_16	19206994	19212763	U119A_g3940.t1	U119A
scaffold_16	43321432	43358814	U5S1_g4385.t1	U5S1
scaffold_16	56584881	56590695	UBAD2_g4569.t1	UBAD2
scaffold_16	2599597	2600466	UBB_g3614.t1	UBB
scaffold_16	2596452	2601593	MSTRG.3851.1	UBB
scaffold_16	13703484	13810955	MSTRG.4017.1	UBE2G1
scaffold_16	56687822	56745253	UBE2O_g4574.t1	UBE2O
scaffold_16	37113079	37127325	UBE2Z_g4150.t1	UBE2Z
scaffold_16	42829602	42840357	UBF1_g4370.t1	UBTF
scaffold_16	58591920	58624447	UBP36_g4607.t1	UBP36
scaffold_16	9166251	9229067	UBP43_g3669.t1	USP43
scaffold_16	42827538	42841764	MSTRG.4520.2	UBTF
scaffold_16	42827538	42841764	MSTRG.4520.3	UBTF
scaffold_16	3413967	3505173	ULK2_g3624.t1	ULK2
scaffold_16	3413733	3507199	MSTRG.3870.1	ULK2
scaffold_16	56230078	56243428	UN13D_g4552.t1	UN13D
scaffold_16	23804825	23834173	UN45B_g3995.t1	UNC45B
scaffold_16	56192835	56228285	MSTRG.4690.3	UNK
scaffold_16	56192835	56226911	UNK_g4551.t1	UNK
scaffold_16	61799380	61800474	UR2R_g4685.t1	UTS2R
scaffold_16	55491747	55496653	USH1G_g4520.t1	USH1G
scaffold_16	35174743	35211071	UTP18_g4104.t1	UTP18
scaffold_16	20996239	21020957	UTP6_g3961.t1	UTP6
scaffold_16	29677073	29691400	VEZF1_g4078.t1	VEZF1
scaffold_16	28038458	28137392	VMP1_g4049.t1	VMP1
scaffold_16	41573406	41627015	VPP1_g4314.t1	VPP1

scaffold_16	41798129	41802444	VPS25_g4327.t1	VPS25
scaffold_16	16870690	17019122	VPS53_g3888.t1	VPS53
scaffold_16	16268028	16278679	WDR81_g3871.t1	WDR81
scaffold_16	35547409	35551819	WFKN2_g4108.t1	WFIKKN2
scaffold_16	50031388	50059950	WIPI1_g4475.t1	WIPI1
scaffold_16	62033476	62059468	WIPI3_g4693.t1	WDR45B
scaffold_16	41804106	41818524	WNK4_g4328.t1	WNK4
scaffold_16	10875159	10886526	DYH2_g3705.t4	WRAP53
scaffold_16	10875159	10886884	MSTRG.3948.1	WRAP53
scaffold_16	12860339	12893683	WSCD1_g3787.t1	WSCD1
scaffold_16	13399237	13416102	XAF1_g3797.t1	XAF1
scaffold_16	35955300	35968813	XYLT2_g4123.t1	XYLT2
scaffold_16	16581695	16610781	MSTRG.4068.1	YWHAE
scaffold_16	3938808	3982034	Z286A_g3629.t2	ZNF286A
scaffold_16	56444437	56448332	ZACN_g4564.t1	ZACN
scaffold_16	56444561	56448332	ZACN_g4564.t2	ZACN
scaffold_16	11061291	11077180	MSTRG.3962.1	ZBTB4
scaffold_16	11062082	11077180	MSTRG.3962.2	ZBTB4
scaffold_16	11070744	11077180	ZBTB4_g3718.t1	ZBTB4
scaffold_16	19061277	19062332	ZCCHV_g3930.t1	ZC3HAV1
scaffold_16	12029445	12043188	MSTRG.4000.1	ZFP3
scaffold_16	12039047	12043188	ZFP3_g3774.t1	ZFP3
scaffold_16	11747199	11752263	ZMY15_g3757.t1	ZMYND15
scaffold_16	21442896	21462789	ZN207_g3971.t1	ZNF207
scaffold_16	2445750	2466908	ZN287_g3611.t1	ZNF287
scaffold_16	12055716	12059653	ZN594_g3775.t1	ZNF594
scaffold_16	12078484	12092222	ZN594_g3775.t2	ZNF594
scaffold_16	36804728	36819490	ZN652_g4142.t1	ZNF652
scaffold_16	36804665	36819490	ZN652_g4142.t2	ZNF652
scaffold_16	62221372	62223662	ZN750_g4699.t1	ZNF750
scaffold_16	21263088	21270896	MSTRG.4158.2	ZNF135
scaffold_16	62648362	62649031	MSTRG.4844.1	ZNF135
scaffold_16	7179996	7197531	ZNF18_g3647.t1	ZNF18
scaffold_16	7175279	7197531	MSTRG.3898.1	ZNF18
scaffold_16	21442758	21474212	MSTRG.4166.3	ZNF207
scaffold_16	21442781	21474212	MSTRG.4166.4	ZNF207
scaffold_16	3961934	3966818	MSTRG.3877.2	ZNF286A
scaffold_16	12075928	12095819	MSTRG.4002.1	ZNF594
scaffold_16	12078484	12095819	MSTRG.4002.2	ZNF594
scaffold_16	3871664	3902924	MSTRG.3879.2	ZNF624
scaffold_16	3873534	3917578	MSTRG.3879.3	ZNF624
scaffold_16	36766811	36824317	MSTRG.4363.1	ZNF652
scaffold_16	26003321	26007941	ZNHI3_g4035.t1	ZNHIT3
scaffold_16	2927459	2946871	ZSWM7_g3619.t1	ZSWIM7
scaffold_16	13925577	14050250	ZZEF1_g3808.t1	ZZEF1

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scaffold_17	52025995	52063432	A2MG_g5328.t1	A2M
scaffold_17	52082282	52136688	A2MG_g5328.t2	A2M
scaffold_17	16272793	16283384	AAAS_g4967.t1	AAAS
scaffold_17	39747774	39753689	ABCC9_g5229.t2	ABCC9
scaffold_17	28310106	28362094	ABCD2_g5169.t1	ABCD2
scaffold_17	61755933	61806148	ACADL_g5460.t1	ACADL
scaffold_17	54244766	54253394	ACRBP_g5378.t1	ACRBP
scaffold_17	17433683	17465758	ACV1B_g5018.t1	ACVR1B
scaffold_17	60612329	60636877	ADA2_g5448.t1	ADA2
scaffold_17	20118549	20133998	ADCY6_g5078.t1	ADCY6
scaffold_17	41601959	41662379	AEBP2_g5241.t1	AEBP2
scaffold_17	21967575	21970052	AMGO2_g5128.t1	AIMGO2
scaffold_17	16180930	16186183	AMHR2_g4965.t1	AMHR2
scaffold_17	21965943	21970052	MSTRG.5132.1	AMIGO2
scaffold_17	31310422	31360522	AMN1_g5182.t1	AMN1
scaffold_17	23372877	23487783	ANO6_g5134.t1	ANO6
scaffold_17	23301434	23487783	MSTRG.5139.1	ANO6
scaffold_17	12557497	12570743	ANR52_g4827.t1	ANKRD52
scaffold_17	47481869	47482609	APLD1_g5275.t1	APOLD1
scaffold_17	11413762	11420426	ARHGP_g4779.t1	ARHGEF25
scaffold_17	22886237	23042738	ARID2_g5132.t1	ARID2
scaffold_17	21078097	21082888	ASB8_g5115.t1	ASB8
scaffold_17	21078085	21082888	ASB8_g5115.t2	ASB8
scaffold_17	18395303	18448603	MSTRG.5078.3	ATF1
scaffold_17	18395303	18448603	MSTRG.5078.4	ATF1
scaffold_17	16037107	16104586	ATF7_g4960.t1	ATF7
scaffold_17	46044732	46150699	MSTRG.5286.2	ATF7IP
scaffold_17	17362218	17368886	MSTRG.5058.1	ATG101
scaffold_17	17362218	17368886	MSTRG.5058.2	ATG101
scaffold_17	17362648	17365700	ATGA1_g5015.t1	ATG101
scaffold_17	54009054	54015788	ATN1_g5361.t1	ATN1
scaffold_17	11103450	11116077	ATP23_g4764.t1	ATP23
scaffold_17	11228038	11240284	UBP54_g4767.t1	AVIL
scaffold_17	32374919	32375953	AZIN1_g5188.t1	AZIN1
scaffold_17	48086566	48109559	B2L14_g5284.t1	BCL2L14
scaffold_17	11399122	11404911	B4GN1_g4777.t1	B4GALNT1
scaffold_17	58253907	58349630	B4GN3_g5430.t1	B4GALNT3
scaffold_17	12269287	12276054	BAZ2A_g4813.t1	BAZ2A
scaffold_17	12278040	12312065	BAZ2A_g4813.t2	BAZ2A
scaffold_17	12295287	12303552	MSTRG.4959.3	BAZ2A
scaffold_17	36981500	37093889	BCAT1_g5221.t1	BCAT1
scaffold_17	36048847	36051534	BHE41_g5214.t1	BHLHE41
scaffold_17	19325020	19348936	BI1_g5053.t1	TMBIM6
scaffold_17	30770711	30979963	BICD1_g5180.t1	BICD1

scaffold_17	61061261	61073204	BID_g5455.t1	BID
scaffold_17	17955713	17985850	BIN2_g5026.t1	BIN2
scaffold_17	12992801	12996271	BL1S1_g4850.t1	BLOC1S1
scaffold_17	34967378	35041904	BMAL2_g5206.t1	BMAL2
scaffold_17	19253351	19258293	BN3D2_g5051.t1	BCDIN3D
scaffold_17	47742664	47829404	BORC5_g5280.t1	BORCS5
scaffold_17	54005891	54008051	C10_g5360.t1	C12ORF57
scaffold_17	53254131	53387954	C163B_g5347.t1	CD163L1
scaffold_17	53862688	53872450	MSTRG.5362.1	C1RL
scaffold_17	53848980	53859167	C1RL_g5353.t1	C1RL
scaffold_17	53887400	53894706	C1S_g5355.t1	C1S
scaffold_17	39105199	39195462	C2CD5_g5226.t1	C2CD5
scaffold_17	39104796	39195462	MSTRG.5255.1	C2CD5
scaffold_17	39104802	39195462	MSTRG.5255.2	C2CD5
scaffold_17	39104813	39195462	MSTRG.5255.4	C2CD5
scaffold_17	52904804	52906258	C3AR_g5342.t1	C3AR1
scaffold_17	20077539	20085613	CACB3_g5077.t1	CACNB3
scaffold_17	15930846	15943222	CACO1_g4958.t1	CALCOCO1
scaffold_17	15930726	15943222	CACO1_g4958.t2	CALCOCO1
scaffold_17	3623411	3657593	CAND1_g4734.t1	CAND1
scaffold_17	31768475	31811104	CAPR2_g5186.t1	CAPRIN2
scaffold_17	31767148	31811104	MSTRG.5197.1	CAPRIN2
scaffold_17	31767432	31811104	MSTRG.5197.6	CAPRIN2
scaffold_17	15455049	15468329	CBX5_g4947.t1	CBX5
scaffold_17	58210418	58237335	CCD77_g5429.t1	CCDC77
scaffold_17	33920248	34273265	CCD91_g5196.t1	CCDC91
scaffold_17	56367355	56391446	CCND2_g5406.t1	CCND2
scaffold_17	20176496	20203546	CCNT1_g5080.t1	CCNT1
scaffold_17	12985021	12988481	CD63_g4848.t1	CD63
scaffold_17	54619217	54650856	CD9_g5391.t1	CD9
scaffold_17	54077006	54078982	CDCA3_g5367.t1	CDCA3
scaffold_17	54075966	54078982	MSTRG.5372.1	CDCA3
scaffold_17	54075966	54078982	MSTRG.5372.2	CDCA3
scaffold_17	54077032	54078982	MSTRG.5372.4	CDCA3
scaffold_17	26149480	26149821	CDK16_g5150.t1	CDK16
scaffold_17	26149879	26150388	CDK16_g5151.t1	CDK16
scaffold_17	12816097	12820591	SUOX_g4838.t3	CDK2
scaffold_17	11277080	11279647	CDK4_g4773.t1	CDK4
scaffold_17	47532647	47534215	CDN1B_g5276.t1	CDKN1B
scaffold_17	59884685	60480784	CE047_g5443.t1	C5ORF47
scaffold_17	60740032	60904867	MSTRG.5437.2	CECR2
scaffold_17	60575663	60592193	MSTRG.5434.2	HDHD5
scaffold_17	17937326	17952081	CELA1_g5025.t1	CELA1
scaffold_17	60575620	60592193	MSTRG.5434.1	CECR
scaffold_17	54275121	54303134	CHD4_g5380.t1	CHD4

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scaffold_17	12521970	12546277	CISY_g4825.t1	CS
scaffold_17	56158875	56203001	CL004_g5402.t1	FERRY3
scaffold_17	4639831	4645826	CL031_g4740.t1	LLPH
scaffold_17	4639795	4645826	CL031_g4740.t2	LLPH
scaffold_17	6092900	6187251	CL056_g4750.t1	C12ORF56
scaffold_17	6083649	6187251	CL056_g4750.t2	C12ORF56
scaffold_17	45736074	45736511	CL060_g5258.t1	C12ORF60
scaffold_17	51674622	51682756	CLC2D_g5322.t1	CLEC2D
scaffold_17	53084512	53102555	CLC4D_g5346.t1	CLEC4D
scaffold_17	54334926	54361770	CND1_g5384.t1	NCAPD2
scaffold_17	1139105	1193367	CNOT2_g4713.t1	CNOT2
scaffold_17	1136129	1254308	MSTRG.4851.2	CNOT2
scaffold_17	1136129	1254308	MSTRG.4851.3	CNOT2
scaffold_17	12513231	12515426	CNPY2_g4824.t1	CNPY2
scaffold_17	27009433	27171924	CNTN1_g5154.t1	CNTN1
scaffold_17	27008838	27361884	MSTRG.5168.1	CNTN1
scaffold_17	21215492	21245835	CO2A1_g5118.t1	COL2A1
scaffold_17	15386588	15406580	COPZ1_g4944.t1	COPZ1
scaffold_17	2063504	2084893	CPSF6_g4722.t1	CPSF6
scaffold_17	2056380	2084893	MSTRG.4857.2	CPSF6
scaffold_17	12549012	12551993	CQ10A_g4826.t1	COQ10A
scaffold_17	16416470	16427338	CSAD_g4977.t1	CSAD
scaffold_17	16415262	16427338	MSTRG.5049.3	CSAD
scaffold_17	54182726	54187362	CSN7A_g5375.t1	COPS7A
scaffold_17	18135208	18145132	CSRN2_g5031.t1	CSRNP2
scaffold_17	53791779	53816923	CSTN3_g5351.t1	CLSTN3
scaffold_17	11198004	11217399	CTDS2_g4766.t1	CTDSP2
scaffold_17	39321992	39322193	MSTRG.5256.1	CTF2P
scaffold_17	60702793	60703053	CX6B1_g5449.t1	COX6B1
scaffold_17	57798780	57829522	D11L8_g5422.t1	DDX11L8
scaffold_17	18012714	18015533	DAZP2_g5028.t1	DAZAP2
scaffold_17	59745685	59799319	DCP1B_g5442.t1	DCP1B
scaffold_17	59744624	59782158	MSTRG.5429.2	DCP1B
scaffold_17	11474198	11487851	DCTN2_g4784.t1	DCTN2
scaffold_17	11501026	11501828	DDIT3_g4786.t1	DDIT3
scaffold_17	11497133	11501828	MSTRG.4945.1	DDIT3
scaffold_17	57794484	57830263	MSTRG.5416.2	DDX11
scaffold_17	57819963	57826126	MSTRG.5416.4	DDX11
scaffold_17	20051986	20057685	DDX23_g5076.t1	DDX23
scaffold_17	20065714	20075518	DDX23_g5076.t2	DDX23
scaffold_17	20061479	20075518	MSTRG.5111.1	DDX23
scaffold_17	47447977	47462569	DDX47_g5274.t1	DDX47
scaffold_17	47448096	47462569	DDX47_g5274.t2	DDX47
scaffold_17	31436256	31626010	DEN5B_g5184.t1	DENND5B

scaffold_17	19951741	19953726	DEND_g5070.t1	DDN
scaffold_17	31435970	31629138	MSTRG.5194.1	DENND5B
scaffold_17	44640892	44745099	DEOC_g5249.t1	DERA
scaffold_17	19869053	19873180	DHH_g5066.t1	DHH
scaffold_17	18465061	18674271	DIP2B_g5038.t1	DIP2B
scaffold_17	12902915	12909630	DJC14_g4844.t1	DNAJC14
scaffold_17	36801433	36865810	DNAI7_g5219.t1	DNAI7
scaffold_17	12902089	12908890	MSTRG.4998.2	DNAJC14
scaffold_17	30482080	30529697	DNM1L_g5178.t1	DNM1L
scaffold_17	30481822	30529697	MSTRG.5190.4	DNM1L
scaffold_17	20014291	20023865	DRC2_g5075.t1	CCDC65
scaffold_17	47696235	47737031	DUS16_g5279.t1	DUSP16
scaffold_17	3337893	3347113	DYRK2_g4733.t1	DYRK2
scaffold_17	56082951	56129848	DYRK4_g5400.t1	DYRK4
scaffold_17	56909226	56976973	EFC4B_g5410.t2	CRACR2A
scaffold_17	11251112	11256999	EFMT3_g4769.t1	EEF1AKMT3
scaffold_17	11240725	11249341	EFTS_g4768.t1	TSFM
scaffold_17	38965568	39032395	EKI1_g5224.t1	ETNK1
scaffold_17	39032396	39032638	EKI1_g5225.t1	ETNK1
scaffold_17	47103285	47106794	EMP1_g5268.t1	EMP1
scaffold_17	21490072	21505504	ENDOU_g5124.t1	ENDOU
scaffold_17	54026138	54031736	ENOG_g5362.t1	ENO2
scaffold_17	12698711	12716493	ERBB3_g4835.t1	ERBB3
scaffold_17	33422440	33424741	ERGI2_g5195.t1	ERGIC2
scaffold_17	45624427	45644647	ERP27_g5256.t1	ERP27
scaffold_17	45679192	45683386	ERP27_g5256.t2	ERP27
scaffold_17	16294233	16308130	ESPL1_g4970.t1	ESPL1
scaffold_17	16317869	16332735	ESPL1_g4973.t1	ESPL1
scaffold_17	16338584	16339954	ESPL1_g4973.t2	ESPL1
scaffold_17	16295874	16302823	MSTRG.5043.5	ESPL1
scaffold_17	12661709	12674067	ESYT1_g4833.t1	ESYT1
scaffold_17	31364485	31368117	ETKMT_g5183.t1	ETFBKMT
scaffold_17	48240777	48456568	ETV6_g5285.t1	ETV6
scaffold_17	19442603	19451298	F186B_g5056.t1	F186B
scaffold_17	47228941	47261002	F234B_g5270.t1	FAM234B
scaffold_17	40048949	40049335	FA12_g5235.t1	FA12
scaffold_17	32876259	32939294	FACR2_g5193.t1	FACR2
scaffold_17	8110151	8130482	MSTRG.4921.2	TAFA2
scaffold_17	11851584	11851805	FBX30_g4799.t1	FBX30
scaffold_17	30558600	30751272	FGD4_g5179.t1	FGD4
scaffold_17	56303927	56311133	FGF23_g5404.t1	FGF23
scaffold_17	35275720	35286374	FGOP2_g5210.t1	FGOP2
scaffold_17	17574871	17576853	FIGL2_g5021.t1	FIGL2
scaffold_17	20010392	20013796	FKB11_g5074.t1	FKB11
scaffold_17	19359022	19412082	FMNL3_g5054.t1	FMNL3

scaffold_17	52890613	52900178	FOXJ2_g5341.t1	FOXJ2
scaffold_17	57668390	57678203	FOXM1_g5417.t1	FOXM1
scaffold_17	57666129	57679676	MSTRG.5411.2	FOXM1
scaffold_17	57666129	57679676	MSTRG.5411.3	FOXM1
scaffold_17	1752237	1758284	FRS2_g4719.t1	FRS2
scaffold_17	1747277	1867951	MSTRG.4855.2	FRS2
scaffold_17	50958980	50965558	FUT1_g5309.t1	FUT1
scaffold_17	59394784	59396125	FXL14_g5436.t1	FBXL14
scaffold_17	17909477	17931208	GALT6_g5024.t1	GALNT6
scaffold_17	12964904	12971528	GDF11_g4847.t1	GDF11
scaffold_17	45614384	45623369	GDIR2_g5255.t1	ARHGDIB
scaffold_17	45614276	45623369	GDIR2_g5255.t2	ARHGDIB
scaffold_17	11530907	11537828	GLI1_g4789.t1	GLI1
scaffold_17	12399862	12413207	GLSL_g4815.t2	GLS2
scaffold_17	11715241	11720371	GLYM_g4794.t1	SHMT2
scaffold_17	5807755	5846417	GNS_g4746.t1	GNS
scaffold_17	39975190	39983599	GOT1B_g5232.t1	GOT1B
scaffold_17	54098138	54101506	GP162_g5370.t1	GPR162
scaffold_17	47355160	47356126	GPC5D_g5272.t1	GPC5D
scaffold_17	19031958	19049276	MSTRG.5087.3	GPD1
scaffold_17	19028360	19036708	GPDA_g5044.t1	GPDA
scaffold_17	47584183	47585310	GPR19_g5277.t2	GPR19
scaffold_17	15373307	15375009	GPR84_g4942.t1	GPR84
scaffold_17	15373819	15375009	GPR84_g4943.t1	GPR84
scaffold_17	17415052	17421870	GRASP_g5017.t1	GRASP
scaffold_17	4285374	4443428	MSTRG.4882.7	GRIP1
scaffold_17	52795949	52807695	GTR3_g5340.t1	SLC2A3
scaffold_17	45850033	45936037	GUC2C_g5263.t1	GUCY2C
scaffold_17	26102902	26146917	GXLT1_g5149.t1	GXLT1
scaffold_17	45780619	45781008	H2AJ_g5261.t1	H2AJ
scaffold_17	45784264	45784575	H4_g5262.t1	H4C1
scaffold_17	47312613	47337055	HEBP1_g5271.t1	HEBP1
scaffold_17	4457939	4490134	HELB_g4737.t2	HELB
scaffold_17	4786406	4913072	HMGA2_g4741.t1	HMGA2
scaffold_17	15431953	15438608	MSTRG.5009.1	HNRNPA1
scaffold_17	15690502	15694766	HXC10_g4953.t2	HXC10
scaffold_17	15704624	15706790	HXC11_g4955.t1	HXC11
scaffold_17	15626200	15627483	HXC4_g4948.t1	HXC4
scaffold_17	15646143	15647504	HXC5_g4949.t2	HXC5
scaffold_17	15650701	15653590	HXC6_g4950.t1	HOXC6
scaffold_17	15668720	15670827	HXC8_g4951.t1	HXC8
scaffold_17	15677267	15679744	HXC9_g4952.t1	HOXC9
scaffold_17	60529370	60550788	I17RA_g5445.t1	I17RA
scaffold_17	16457663	16460994	IBP6_g4979.t1	IGFBP6
scaffold_17	16511179	16538359	IF4B_g4982.t1	EIF4B

scaffold_17	12761693	12775936	IKZF4_g4837.t1	IKZF4
scaffold_17	60529269	60550788	MSTRG.5436.1	IL17A
scaffold_17	2802159	2843161	IL22_g4729.t1	IL22
scaffold_17	12495507	12497312	MSTRG.4971.2	IL23A
scaffold_17	54236307	54243756	ING4_g5377.t1	ING4
scaffold_17	11543724	11545037	INHBE_g4790.t1	INHBE
scaffold_17	18447855	18448603	INS_g5037.t1	INS
scaffold_17	35302663	35330953	INT13_g5211.t1	INTS13
scaffold_17	31821456	31891884	IPO8_g5187.t1	IPO8
scaffold_17	36866298	36959852	IRAG2_g5220.t1	IRAG2
scaffold_17	4532692	4579847	IRAK3_g4738.t1	IRAK3
scaffold_17	24667117	24684064	IRAK4_g5140.t1	IRAK4
scaffold_17	15324562	15345758	ITA5_g4940.t2	ITGA5
scaffold_17	13002720	13021211	ITA7_g4851.t1	ITA7
scaffold_17	16382682	16391290	ITB7_g4975.t1	ITGB7
scaffold_17	57707112	57717555	ITFG2_g5420.t1	ITFG2
scaffold_17	35402626	35855417	ITPR2_g5212.t1	ITPR2
scaffold_17	16579186	16582939	K1C18_g4983.t1	KRT18
scaffold_17	16663658	16675453	K2C79_g4986.t2	KRT79
scaffold_17	17261196	17279269	K2C80_g5010.t1	K2C80
scaffold_17	20211581	20247587	KANL2_g5081.t1	KANSL2
scaffold_17	20211680	20247587	MSTRG.5113.3	KANSL2
scaffold_17	55657615	55659426	KCNA5_g5394.t1	KCNA5
scaffold_17	19481180	19498395	KCNH3_g5058.t1	KCNH3
scaffold_17	5048359	5049604	MSTRG.4879.1	KCNIP4
scaffold_17	58107114	58195329	KDM5A_g5428.t1	KDM5A
scaffold_17	28439970	28585064	KI21A_g5170.t1	KI21A
scaffold_17	6220617	6237935	KICS2_g4751.t1	KICS2
scaffold_17	6220617	6242419	KICS2_g4751.t2	KICS2
scaffold_17	34624516	34641004	KLH42_g5198.t1	KLH42
scaffold_17	51760648	51773872	KLRB1_g5325.t1	KLRB1
scaffold_17	51760648	51771183	KLRB1_g5325.t2	KLRB1
scaffold_17	51002252	51009635	KLRE1_g5310.t1	KLRE1
scaffold_17	19927743	19933741	KMT2D_g5067.t2	KMT2D
scaffold_17	19894709	19933741	MSTRG.5110.3	KMT2D
scaffold_17	19894731	19933741	MSTRG.5110.5	KMT2D
scaffold_17	19914511	19918051	MSTRG.5110.7	KMT2D
scaffold_17	59378169	59378381	MSTRG.5427.1	KRTAP17-1
scaffold_17	54149678	54153348	LAG3_g5372.t2	LAG3
scaffold_17	18713602	18765647	LARP4_g5039.t1	LARP4
scaffold_17	39848641	39865598	LDHB_g5230.t1	LDHB
scaffold_17	5392546	5395114	MSTRG.4887.1	LEMD3
scaffold_17	18145611	18153163	MSTRG.5075.1	LETMD1
scaffold_17	4594323	4618368	LFG4_g4739.t1	LFG4
scaffold_17	18916872	18972721	LIMA1_g5042.t1	LIMA1

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scaffold_17	19854588	19867011	LMBRL_g5065.t1	LMBR1L
scaffold_17	44101923	44155586	LMO3_g5247.t1	LMO3
scaffold_17	36301172	36579904	LMTD1_g5216.t1	LMTD1
scaffold_17	51720093	51730103	CLC2H_g5323.t1	LOC101406231
scaffold_17	51078675	51090411	MSTRG.5334.1	OLR1
scaffold_17	54262797	54263828	LPAR5_g5379.t1	LPAR5
scaffold_17	54262713	54263828	LPAR5_g5379.t2	LPAR5
scaffold_17	1720015	1720854	LRC10_g4717.t1	LRRC10
scaffold_17	54034310	54038813	LRC23_g5363.t1	LRC23
scaffold_17	11736907	11817229	LRP1_g4796.t1	LRP1
scaffold_17	11736141	11817229	MSTRG.4954.2	LRP1
scaffold_17	11736122	11817229	MSTRG.4954.1	LRP1
scaffold_17	47900233	48073366	LRP6_g5283.t1	LRP6
scaffold_17	47920450	48031883	MSTRG.5315.2	LRP6
scaffold_17	27626521	27760715	LRRK2_g5165.t1	LRRK2
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scaffold_17	20253418	20255704	LYSC1_g5082.t1	LYSC1
scaffold_17	5395711	5460780	MAN1_g4743.t1	LEMD3
scaffold_17	47851044	47863500	MANS1_g5282.t1	MANS1
scaffold_17	34646880	34653274	MANS4_g5200.t2	MANSC4
scaffold_17	47847406	47851043	MLH1_g5281.t1	MANSC1
scaffold_17	26793193	26793425	MSTRG.5166.1	MAP3K7CL
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scaffold_17	11488893	11493848	MBD6_g4785.t1	MBD6
scaffold_17	11488015	11495322	MSTRG.4944.2	MBD6
scaffold_17	11488046	11519436	MSTRG.4944.3	MBD6
scaffold_17	11488046	11489855	MSTRG.4944.4	MBD6
scaffold_17	53929093	53973928	MBOA5_g5356.t1	MBOA5
scaffold_17	46049313	46150699	MCAF1_g5265.t1	MCAF1
scaffold_17	19472515	19480730	MCRS1_g5057.t1	MCRS1
scaffold_17	2770145	2799040	MDM1_g4728.t2	MDM1
scaffold_17	2392610	2414762	MDM2_g4724.t1	MDM2
scaffold_17	2390613	2415303	MSTRG.4861.2	MDM2
scaffold_17	35215893	35220746	MED21_g5208.t1	MED21
scaffold_17	18245114	18250184	MET7A_g5034.t1	TMT1A
scaffold_17	18265906	18270630	MET7A_g5035.t1	TMT1A
scaffold_17	13022197	13024049	MET7B_g4852.t1	METTL7B
scaffold_17	49599393	49606692	MGN2_g5305.t1	MGN2
scaffold_17	61125527	61168700	MSTRG.5443.1	MICAL3
scaffold_17	61125672	61165061	MSTRG.5443.2	MICAL3
scaffold_17	12427084	12430514	MIP_g4817.t1	MIP
scaffold_17	12890933	12896165	MSTRG.4996.1	MMP19
scaffold_17	7402778	7503788	MSTRG.4916.3	MON2
scaffold_17	9588308	9653319	MOT2_g4760.t1	MOT2

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scaffold_17	54363233	54366248	MSTRG.5386.4	MRPL51
scaffold_17	34656904	34704982	MSTRG.5216.1	MRPS35
scaffold_17	34656904	34704982	MSTRG.5216.2	MRPS35
scaffold_17	34657133	34704982	MSTRG.5216.3	MRPS35
scaffold_17	5201921	5392546	MSRB3_g4742.t1	MSRB3
scaffold_17	27464329	27493183	MUC19_g5155.t1	MUC19
scaffold_17	12640659	12643934	MYL6_g4831.t1	MYL6
scaffold_17	12644482	12647102	MYL6B_g4832.t1	MYL6B
scaffold_17	11885085	11903746	MYO1A_g4801.t1	MYO1A
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scaffold_17	12580211	12584873	MSTRG.4977.4	NABP2
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scaffold_17	45718337	45729653	NAR4_g5257.t1	ART4
scaffold_17	45718274	45729653	NAR4_g5257.t2	ART4
scaffold_17	54334631	54363023	MSTRG.5384.1	NCAPD2
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scaffold_17	19262903	19305857	NCK5L_g5052.t1	NCK5L
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scaffold_17	11858803	11878139	NEMP1_g4800.t2	NEMP1
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scaffold_17	39517937	39537133	NEUA_g5228.t1	NEUA
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scaffold_17	56669428	56720860	ARC1B_g5407.t1	ARC1B_g5407.t1
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scaffold_17	60912171	60930537	GHC2_g5452.t1	GHC2_g5452.t1
scaffold_17	61815322	61852777	GNDS_g5461.t1	GNDS_g5461.t1
scaffold_17	1561926	1562137	MSTRG.4850.1	MSTRG.4850.1
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scaffold_17	2510227	2511019	MSTRG.4867.1	MSTRG.4867.1
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scaffold_17	3830705	4454519	MSTRG.4882.2	MSTRG.4882.2
scaffold_17	7113769	7113971	MSTRG.4914.1	MSTRG.4914.1
scaffold_17	7401421	7503788	MSTRG.4916.1	MSTRG.4916.1
scaffold_17	10608292	10608521	MSTRG.4917.1	MSTRG.4917.1

scaffold_17	9390543	9390783	MSTRG.4920.1	MSTRG.4920.1
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scaffold_17	8804123	8804334	MSTRG.4927.1	MSTRG.4927.1
scaffold_17	11858838	11879859	MSTRG.4951.3	MSTRG.4951.3
scaffold_17	15712448	15717856	MSTRG.5026.1	MSTRG.5026.1
scaffold_17	16008747	16008968	MSTRG.5029.1	MSTRG.5029.1
scaffold_17	16508689	16538359	MSTRG.5053.1	MSTRG.5053.1
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scaffold_17	18041283	18041491	MSTRG.5070.1	MSTRG.5070.1
scaffold_17	18048593	18048934	MSTRG.5071.1	MSTRG.5071.1
scaffold_17	18066727	18122652	MSTRG.5073.2	MSTRG.5073.2
scaffold_17	18719324	18719535	MSTRG.5081.1	MSTRG.5081.1
scaffold_17	19103722	19124812	MSTRG.5088.3	MSTRG.5088.3
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scaffold_17	22442655	22548727	MSTRG.5133.1	MSTRG.5133.1
scaffold_17	22442668	22520111	MSTRG.5133.3	MSTRG.5133.3
scaffold_17	22846663	22874109	MSTRG.5136.4	MSTRG.5136.4
scaffold_17	25498704	25498910	MSTRG.5149.1	MSTRG.5149.1
scaffold_17	29663513	29839244	MSTRG.5176.4	MSTRG.5176.4
scaffold_17	32736720	32740190	MSTRG.5199.1	MSTRG.5199.1
scaffold_17	34362630	34362840	MSTRG.5208.1	MSTRG.5208.1
scaffold_17	35227026	35264240	MSTRG.5222.2	MSTRG.5222.2
scaffold_17	36624894	36625098	MSTRG.5235.1	MSTRG.5235.1
scaffold_17	36189619	36208850	MSTRG.5238.2	MSTRG.5238.2
scaffold_17	38054952	38185726	MSTRG.5252.6	MSTRG.5252.6
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scaffold_17	51678029	51678363	MSTRG.5336.1	MSTRG.5336.1
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scaffold_17	54236307	54253394	MSTRG.5377.7	MSTRG.5377.7
scaffold_17	54327078	54332014	MSTRG.5380.1	MSTRG.5380.1
scaffold_17	57562396	57562603	MSTRG.5408.1	MSTRG.5408.1
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scaffold_17	17377271	17398262	MSTRG.5060.1	NR4A1
scaffold_17	17377272	17398262	MSTRG.5060.2	NR4A1
scaffold_17	17377577	17398262	NR4A1_g5016.t1	NR4A1
scaffold_17	18179485	18198408	NRAM2_g5033.t1	NRAM2
scaffold_17	13205849	13206778	OR6C4_g4861.t1	OR6C4
scaffold_17	20630508	20631317	OR8S1_g5099.t1	OR8S1

scaffold_17	20634633	20635454	OR8S1_g5100.t1	OR8S1
scaffold_17	20644174	20644779	OR8S1_g5101.t1	OR8S1
scaffold_17	20659878	20660696	OR8S1_g5102.t1	OR8S1
scaffold_17	20659878	20660813	OR8S1_g5102.t2	OR8S1
scaffold_17	20686821	20687861	OR8S1_g5103.t1	OR8S1
scaffold_17	12910228	12912468	ORML2_g4845.t1	ORML2
scaffold_17	11305577	11336621	OS9_g4776.t1	OS9
scaffold_17	51836650	51840846	MSTRG.5340.1	OVOS2
scaffold_17	51844780	51845733	MSTRG.5343.1	OVOS2
scaffold_17	42597310	42724864	P3C2G_g5246.t1	PIK3C2G
scaffold_17	54087171	54097061	P3H3_g5369.t1	P3H3
scaffold_17	12497474	12512005	MSTRG.4972.2	PAN2
scaffold_17	12502017	12504206	MSTRG.4972.5	PAN2
scaffold_17	12498341	12511114	PAN2_g4822.t1	PAN2
scaffold_17	17515472	17518038	PANKY_g5020.t1	PANKY
scaffold_17	59557099	59609300	PAQR2_g5438.t1	PAQR2
scaffold_17	56761746	56802901	PAR11_g5409.t1	PARP11
scaffold_17	56761561	56802901	MSTRG.5402.2	PARP11
scaffold_17	56761614	56802901	MSTRG.5402.3	PARP11
scaffold_17	16138650	16157447	MSTRG.5033.5	PCBP2
scaffold_17	16138650	16154851	PCBP2_g4964.t1	PCBP2
scaffold_17	51892785	51900618	PDE1C_g5326.t1	PDE1C
scaffold_17	40513061	40799042	PDE3A_g5239.t1	PDE3A
scaffold_17	61405363	61414626	MSTRG.5441.1	PEX26
scaffold_17	61405363	61414626	MSTRG.5441.2	PEX26
scaffold_17	53754469	53771543	MSTRG.5358.1	PEX5
scaffold_17	53754530	53771885	MSTRG.5358.3	PEX5
scaffold_17	53755741	53771089	PEX5_g5350.t1	PEX5
scaffold_17	16290035	16293046	PFD5_g4969.t1	PFDN5
scaffold_17	16308489	16311504	PFD5_g4971.t1	PFDN5
scaffold_17	21085235	21125983	PFKAM_g5116.t1	PFKAM
scaffold_17	12432513	12458375	MSTRG.4967.2	PFKFB2
scaffold_17	52214168	52232945	PHC1_g5331.t1	PHC1
scaffold_17	39928056	39951794	PKHL1_g5231.t1	PKHD1L1
scaffold_17	30350759	30432896	PKP2_g5176.t1	PKP2
scaffold_17	45988982	46044307	PLBL1_g5264.t1	PLBL1
scaffold_17	42300547	42351118	PLCZ1_g5244.t1	PLCZ1
scaffold_17	3080347	3094403	PLPR4_g4731.t1	PLPPR4
scaffold_17	12821407	12829270	PMEL_g4839.t1	PMEL
scaffold_17	25257716	25258051	PP4C_g5143.t1	PP4C
scaffold_17	34807405	34808808	CL071_g5204.t1	PPFIBP1
scaffold_17	34710843	34789796	MSTRG.5217.5	PPFIBP1
scaffold_17	59356976	59357194	PPIA_g5435.t1	PPIA
scaffold_17	7104624	7346991	PPM1H_g4756.t1	PPM1H
scaffold_17	15176977	15184764	PPR1A_g4936.t1	PPP1R1A

scaffold_17	12494115	12497312	PRC2C_g4821.t1	PRRC2C
scaffold_17	12168502	12186312	PRI1_g4810.t1	PRIM1
scaffold_17	25820350	25830730	PRIC1_g5144.t1	PRIC1
scaffold_17	25830227	25958393	MSTRG.5155.2	PRICKLE1
scaffold_17	25830229	25958393	MSTRG.5155.3	PRICKLE1
scaffold_17	48869750	48871779	PROL4_g5287.t1	PROL4
scaffold_17	16163808	16167415	MSTRG.5036.2	PRR13
scaffold_17	34468553	34482826	MSTRG.5211.1	PTHLH
scaffold_17	34471768	34477970	PTHR_g5197.t1	PTHR
scaffold_17	951031	1053689	PTPRB_g4711.t1	PTPRB
scaffold_17	45041031	45262142	PTPRO_g5252.t1	PTPRO
scaffold_17	724410	949287	PTPRR_g4710.t1	PTPRR
scaffold_17	24694276	24721175	PUS7L_g5141.t1	PUS7L
scaffold_17	12852489	12867896	PYM1_g4841.t1	PYM1
scaffold_17	40026419	40049084	MSTRG.5263.4	PYROXD1
scaffold_17	26573480	26918479	PZRN4_g5153.t1	PDZRN4
scaffold_17	11655462	11697886	R3HD2_g4792.t1	R3HD2
scaffold_17	11700734	11706195	R3HD2_g4792.t2	R3HD2
scaffold_17	1576869	1604955	RAB3I_g4715.t1	RAB31P
scaffold_17	12796788	12813768	MSTRG.4990.2	RAB5B
scaffold_17	19097079	19124812	MSTRG.5088.1	RACGAP1
scaffold_17	58671640	58694154	MSTRG.5423.2	RAD52
scaffold_17	58671766	58684067	RAD52_g5433.t1	RAD52
scaffold_17	2533001	2539049	RAP1B_g4727.t1	RAP1B
scaffold_17	16364941	16373224	RARG_g4974.t1	RARG
scaffold_17	5863534	5930712	RASF3_g4747.t1	RASSF3
scaffold_17	36092926	36106956	RASF8_g5215.t1	RASSF8
scaffold_17	36758666	36789379	RASK_g5217.t1	RASK
scaffold_17	3561	24794	RBL2A_g4703.t1	RABL2A
scaffold_17	27524138	27524614	RBM12_g5164.t1	RBM12
scaffold_17	12317686	12399411	RBMS2_g4814.t1	RBMS2
scaffold_17	12001558	12003496	MSTRG.4958.4	RDH16
scaffold_17	11989030	12002471	RDH16_g4807.t1	RDH16
scaffold_17	12988484	12991358	RDH5_g4849.t1	RDH5
scaffold_17	39986147	40023785	RECQ1_g5233.t1	RECQ1
scaffold_17	45353458	45456586	RERG_g5253.t1	RERG
scaffold_17	31093110	31102263	RESF1_g5181.t1	RESF1
scaffold_17	19103722	19124198	RGAP1_g5046.t1	RACGAP1
scaffold_17	19888743	19927742	KMT2D_g5067.t1	RHEB
scaffold_17	11522436	11530467	RHG09_g4788.t1	RHG09
scaffold_17	57659083	57666052	MSTRG.5410.3	RHNO1
scaffold_17	57659864	57661758	RHNO1_g5416.t1	RHNO1
scaffold_17	52362948	52363411	RIMKB_g5333.t1	RIMKLB
scaffold_17	52351818	52429059	MSTRG.5350.4	RIMKLB
scaffold_17	52351818	52429059	MSTRG.5350.5	RIMKLB

scaffold_17	52374619	52413281	MSTRG.5350.8	RIMKLB
scaffold_17	27976533	27977012	RL21_g5167.t1	RPL21
scaffold_17	54363649	54366248	RM51_g5385.t1	MRPL51
scaffold_17	12602863	12609891	RNF41_g4829.t1	RNF41
scaffold_17	15434979	15438608	ROA1_g4946.t1	ROA1
scaffold_17	21517916	21551242	RPAP3_g5125.t1	RPAP3
scaffold_17	21517844	21551242	RPAP3_g5125.t2	RPAP3
scaffold_17	21456997	21478090	RPGF3_g5123.t1	RAPGEF3
scaffold_17	12754488	12756270	RS26_g4836.t1	RPS26
scaffold_17	34658583	34704982	RT35_g5201.t1	MRPS35
scaffold_17	6542835	6564164	RXLT1_g4754.t1	RXLT1
scaffold_17	22555328	22567900	S38A2_g5130.t1	SLC38A2
scaffold_17	22230309	22256199	S38A4_g5129.t1	S38A4
scaffold_17	12574482	12578818	S39A5_g4828.t1	SLC39A5
scaffold_17	12580526	12584502	S39A5_g4828.t2	SLC39A5
scaffold_17	58000926	58020922	S6A12_g5425.t1	S6A12
scaffold_17	12912750	12957323	SARNP_g4846.t1	SARNP
scaffold_17	22622720	22671910	SCAFB_g5131.t1	SCAFB
scaffold_17	22830703	22874109	SCAFB_g5131.t2	SCAFB
scaffold_17	54488785	54508903	SCNNA_g5388.t1	SCNN1A
scaffold_17	21127881	21175443	SENP1_g5117.t1	SENP1
scaffold_17	48980624	48980830	SIML1_g5289.t1	SMIM10L1
scaffold_17	22607433	22675569	MSTRG.5135.1	SLC38A1
scaffold_17	22553850	22567900	MSTRG.5134.1	SLC38A2
scaffold_17	17992214	18010027	MSTRG.5067.2	SMAGP
scaffold_17	12619481	12639745	MSTRG.4979.1	SMARCC2
scaffold_17	19036709	19049276	MSTRG.5087.4	SMARCD1
scaffold_17	45747269	45747946	SMCO3_g5259.t1	SMCO3
scaffold_17	12619526	12639745	SMRC2_g4830.t1	SMRC2
scaffold_17	44910334	45025824	SMUF2_g5251.t1	SMUF2
scaffold_17	37852966	38253255	SOX5_g5222.t1	SOX5
scaffold_17	19507010	19636751	MSTRG.5093.3	SPATS2
scaffold_17	16474205	16488867	SPRY3_g4980.t1	SPRY3
scaffold_17	12414828	12415818	SPRY4_g4816.t1	SPRY4
scaffold_17	16474365	16488867	MSTRG.5051.2	SPRYD3
scaffold_17	54055660	54057691	SPSB2_g5364.t1	SPSB2
scaffold_17	6275788	6511364	SRGP1_g4753.t1	SRGAP1
scaffold_17	35940519	35974783	SSPN_g5213.t1	SSPN
scaffold_17	35051152	35076655	ST38L_g5207.t1	STK38L
scaffold_17	12479576	12490595	STAT2_g4819.t2	STAT2
scaffold_17	11835025	11844270	STAT6_g4797.t2	STAT6
scaffold_17	35048517	35126340	MSTRG.5226.2	STK38L
scaffold_17	49577761	49592482	STYK1_g5304.t2	STYK1
scaffold_17	12790548	12795069	SUOX_g4838.t1	SUOX
scaffold_17	12799375	12802846	SUOX_g4838.t2	SUOX

scaffold_17	11501852	11519436	SYMC_g4787.t1	MARS1
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scaffold_17	21250302	21255141	T106C_g5119.t1	T106C
scaffold_17	2464803	2496958	T126A_g4726.t1	T126A
scaffold_17	7808882	8144246	TAFA2_g4759.t1	TAFA2
scaffold_17	19791812	19792561	TBA1A_g5064.t1	TBA1A
scaffold_17	19717404	19752068	TBA1C_g5062.t1	TUBA1C
scaffold_17	19788689	19791753	TBA1C_g5063.t1	TUBA1C
scaffold_17	61428830	61447542	TBA8_g5457.t2	TUBA8
scaffold_17	5717455	5795473	TBC30_g4745.t1	TBC1D30
scaffold_17	5998925	6045863	MSTRG.4900.1	TBK1
scaffold_17	6003272	6043393	TBK1_g4748.t1	TBK1
scaffold_17	1727461	1744095	TCPB_g4718.t1	CCT2
scaffold_17	57508502	57546853	TEAD4_g5414.t1	TEAD4
scaffold_17	12216919	12259014	TEBP_g4812.t1	PTGES3
scaffold_17	14987901	15010729	TESP1_g4935.t1	TESPA1
scaffold_17	57679861	57685121	TEX52_g5418.t1	TEX52
scaffold_17	18066727	18114299	TFCP2_g5030.t1	TFCP2
scaffold_17	56324333	56348578	TIGAR_g5405.t1	TIGAR
scaffold_17	12445732	12458375	TIM_g4818.t1	TIM
scaffold_17	24160300	24596377	TM117_g5138.t1	TM117
scaffold_17	12897499	12899827	TM198_g4843.t1	TM198
scaffold_17	35227125	35264240	TM7S3_g5209.t1	TM7S3
scaffold_17	12896542	12901027	MSTRG.4997.2	TMEM198
scaffold_17	12896547	12900546	MSTRG.4997.3	TMEM198
scaffold_17	97006	131852	TMM19_g4706.t1	TMEM19
scaffold_17	10929759	10955900	TMPS2_g4763.t1	TMPRSS2
scaffold_17	32482155	32736459	TMTC1_g5190.t1	TMTC1
scaffold_17	54514371	54526047	TNR1A_g5389.t1	TNFRSF1A
scaffold_17	54474901	54480430	TNR3_g5387.t1	TNR3
scaffold_17	16489609	16502266	TNS2_g4981.t1	TNS2
scaffold_17	54058551	54061541	TPIS_g5365.t1	SPAG1
scaffold_17	54389102	54395464	TPSNR_g5386.t1	TAPBPL
scaffold_17	16113078	16118241	TRBP2_g4962.t1	TARBP2
scaffold_17	11257610	11260843	TRMB_g4770.t1	TRMB
scaffold_17	19668078	19674413	TROAP_g5061.t1	TROAP
scaffold_17	19702114	19705272	TROAP_g5061.t2	TROAP
scaffold_17	57199940	57271810	TSN11_g5412.t1	TSN11
scaffold_17	11280297	11282686	TSN31_g4774.t1	TSPAN31
scaffold_17	510026	542185	TSN8_g4709.t1	TSN8
scaffold_17	57285435	57367726	TSN9_g5413.t1	TSPAN9
scaffold_17	57289850	57483231	MSTRG.5406.3	TSPAN9
scaffold_17	19838762	19842334	MSTRG.5100.1	TUBA1A
scaffold_17	57585505	57657978	TULP3_g5415.t1	TULP3
scaffold_17	24639577	24648737	TWF1_g5139.t1	TWF1

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scaffold_17	61493018	61519607	UBP18_g5459.t1	USP18
scaffold_17	54062842	54076561	UBP5_g5366.t1	USP5
scaffold_17	51730168	51735524	ULK1_g5324.t1	ULK1
scaffold_17	27512554	27512904	UNK_g5159.t1	UNK
scaffold_17	49917103	49928879	URE3_g5307.t1	URE3
scaffold_17	60932576	60952332	VATE1_g5453.t1	ATP6V1E1
scaffold_17	21345660	21374507	VDR_g5120.t1	VDR
scaffold_17	22538291	22548727	MSTRG.5133.6	VPS54
scaffold_17	57830261	57878077	WASH1_g5423.t1	WASHC1
scaffold_17	45752574	45766370	WBP11_g5260.t1	WBP11
scaffold_17	5516969	5581956	WIF1_g4744.t1	WIF1
scaffold_17	19997554	20002523	WN10B_g5073.t2	WNT10B
scaffold_17	58504998	58634900	WNK1_g5432.t1	WNK1
scaffold_17	19965653	19968721	WNT1_g5071.t1	WNT1
scaffold_17	6049365	6090667	XPOT_g4749.t1	XPOT
scaffold_17	26029038	26094751	MSTRG.5157.1	YAF2
scaffold_17	26029197	26094751	MSTRG.5157.4	YAF2
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scaffold_17	26029390	26031747	YAF2_g5148.t1	YAF2
scaffold_17	49508129	49531379	YBOX3_g5303.t1	YBOX3
scaffold_17	1933615	1950508	YETS4_g4720.t1	YETS4
scaffold_17	15349472	15369966	Z385A_g4941.t1	ZNF385A
scaffold_17	11925655	11931848	ZBT39_g4803.t1	ZBTB39
scaffold_17	11923460	11931848	MSTRG.4952.1	ZBTB39
scaffold_17	12684368	12685556	MSTRG.4985.1	ZC3H10
scaffold_17	25959722	25977026	ZCRB1_g5146.t1	ZCRB1
scaffold_17	12512041	12512412	ZEP2_g4823.t1	ZEB2
scaffold_17	54221880	54234071	ZN384_g5376.t1	ZNF384
scaffold_17	20923993	20928425	ZN641_g5110.t2	ZNF641
scaffold_17	16395171	16400710	ZN740_g4976.t1	ZNF740
scaffold_17	54214465	54234071	MSTRG.5377.3	ZNF384
scaffold_17	54214796	54262678	MSTRG.5377.4	ZNF384
scaffold_17	20920348	20932141	MSTRG.5112.2	ZNF641
scaffold_17	16392003	16401804	MSTRG.5048.2	ZNF740
scaffold_18	57098339	57105230	6PGL_g5818.t1	PGLS
scaffold_18	33390628	33420049	AAPK1_g5608.t1	PRKAA1
scaffold_18	58633580	58680184	ABCAD_g5874.t1	ABCA13
scaffold_18	57249842	57254614	ABHD8_g5833.t1	ABHD8
scaffold_18	8643652	8660200	ACKMT_g5519.t1	ATPSCKMT
scaffold_18	6258954	6597668	ADCY2_g5514.t1	ADCY2
scaffold_18	58599648	58616887	AKAP8_g5873.t1	AKAP8
scaffold_18	58564807	58616887	MSTRG.5878.2	AKAP8L
scaffold_18	38376220	38385223	AKIP1_g5649.t1	AKIP1
scaffold_18	58565180	58599499	AKP8L_g5872.t1	AKAP8L

scaffold_18	27956149	27974531	AMACR_g5570.t1	AMACR
scaffold_18	27985822	28009453	AMACR_g5570.t2	AMACR
scaffold_18	12583760	12720724	ANKH_g5534.t1	ANKH
scaffold_18	57257501	57261175	ANKL1_g5834.t2	ASZ1
scaffold_18	57225466	57235784	ANO8_g5830.t1	ANO8
scaffold_18	57224547	57235784	MSTRG.5844.5	ANO8
scaffold_18	26910890	26984149	ANPRC_g5564.t1	NPR3
scaffold_18	42845497	42936053	ANR55_g5678.t1	ANKRD55
scaffold_18	58097292	58132896	AP1M1_g5857.t1	AP1M1
scaffold_18	40801432	41216644	MSTRG.5672.1	ARL15
scaffold_18	40801447	41216644	MSTRG.5672.2	ARL15
scaffold_18	55953387	55964931	ARMC6_g5771.t1	ARMC6
scaffold_18	56768694	56774321	ARRD2_g5804.t1	ARRDC2
scaffold_18	55514038	55529388	AT131_g5751.t1	ATP13A1
scaffold_18	55521887	55529388	MSTRG.5764.3	ATP13A1
scaffold_18	4272132	4433056	ATS16_g5504.t1	ADAMTS16
scaffold_18	50778659	51092842	ATS6_g5714.t1	ADAMTS6
scaffold_18	35445627	35446205	AX2R_g5628.t1	ANXA2R
scaffold_18	35488073	35488660	AX2R_g5630.t1	ANXA2R
scaffold_18	57262403	57268036	BABA1_g5835.t1	BABAM1
scaffold_18	14718634	14719528	BASP1_g5540.t1	BASP1
scaffold_18	55863000	55870825	BORC8_g5767.t1	BORCS8
scaffold_18	58680185	58715207	BRD4_g5875.t1	BRD4
scaffold_18	591723	619309	BRD9_g5475.t1	BRD9
scaffold_18	591069	619309	MSTRG.5462.3	BRD9
scaffold_18	28435998	28445809	BRX1_g5574.t1	BRIX1
scaffold_18	57188345	57190306	BST2_g5826.t1	BST2
scaffold_18	56335336	56338163	MSTRG.5790.2	REX1BD
scaffold_18	27984244	28009671	MSTRG.5588.1	C1QTNF3
scaffold_18	27984251	28009671	MSTRG.5588.2	C1QTNF3
scaffold_18	35742143	35749681	MSTRG.5648.1	TMEM267
scaffold_18	35791190	35791465	CAC1S_g5639.t1	C5ORF34
scaffold_18	30421552	30539133	MSTRG.5609.1	CPLANE1
scaffold_18	30421552	30539133	MSTRG.5609.2	CPLANE1
scaffold_18	30421707	30539133	MSTRG.5609.4	CPLANE1
scaffold_18	30421904	30539133	MSTRG.5609.5	CPLANE1
scaffold_18	34353362	34371135	CE051_g5616.t1	RIMOC1
scaffold_18	20329424	20445759	CAD10_g5547.t1	CDH10
scaffold_18	18248776	18532214	CAD12_g5545.t1	CDH12
scaffold_18	25722969	25774314	CADH6_g5552.t1	CDH6
scaffold_18	57870660	57896489	CALR3_g5853.t1	CALR3
scaffold_18	33453599	33464876	CARD6_g5610.t1	CARD6
scaffold_18	58948607	58955936	CC105_g5881.t1	TEKTL1
scaffold_18	56812695	56818000	CC124_g5806.t1	CCDC124
scaffold_18	54308944	54329272	CC125_g5734.t1	CCDC125

scaffold_18	54401519	54402340	CC125_g5734.t2	CCDC125
scaffold_18	106717	114154	CC127_g5464.t1	CCDC127
scaffold_18	106717	114204	CC127_g5464.t2	CCDC127
scaffold_18	35028665	35084313	CC152_g5620.t1	CCDC152
scaffold_18	57194359	57200094	CC194_g5827.t2	CCDC194
scaffold_18	54309193	54323403	MSTRG.5755.3	CCDC125
scaffold_18	106340	115304	MSTRG.5455.2	CCDC127
scaffold_18	57194456	57200094	MSTRG.5839.3	CCDC194
scaffold_18	52556444	52577386	CD180_g5727.t1	CD180
scaffold_18	16374253	16841639	MSTRG.5533.2	CDH18
scaffold_18	54266629	54304476	CDK7_g5733.t1	CDK7
scaffold_18	25956282	25973877	CE022_g5554.t1	C5ORF22
scaffold_18	35762387	35787848	CE034_g5638.t1	C5ORF34
scaffold_18	54220409	54243008	CENPH_g5732.t1	CENPH
scaffold_18	51121054	51151066	CENPK_g5715.t1	CENPK
scaffold_18	51120380	51165091	MSTRG.5727.2	CENPK
scaffold_18	428585	474780	CEP72_g5472.t1	CEP72
scaffold_18	56082377	56099785	CERS1_g5776.t1	CERS1
scaffold_18	1021405	1037739	CLP1L_g5486.t1	CLPTM1L
scaffold_18	8680902	8691421	CMBL_g5521.t1	CMBL
scaffold_18	8680387	8704393	MSTRG.5495.1	CMBL
scaffold_18	42374951	42416332	CNIH4_g5674.t1	CNIH4
scaffold_18	33711090	33762580	CO6_g5613.t1	C6
scaffold_18	56061061	56078902	COPE_g5775.t1	COPE
scaffold_18	58310578	58327480	CP4F3_g5864.t1	CYP4F3
scaffold_18	58428821	58447864	CP4F3_g5867.t1	CYP4F3
scaffold_18	30421904	30536267	CPLN1_g5591.t1	CPLANE1
scaffold_18	27629015	27629238	MSTRG.5585.1	CPLX2
scaffold_18	35444436	35444924	CPNE3_g5627.t1	CPNE3
scaffold_18	56191485	56262679	CRTC1_g5780.t1	CRTC1
scaffold_18	57855717	57866305	CS044_g5852.t1	C19ORF44
scaffold_18	41645759	41718387	CSPG4_g5662.t1	CSPG4
scaffold_18	27863233	27863790	CTF18_g5567.t1	CHTF18
scaffold_18	50444521	50669045	CWC27_g5713.t1	CWC27
scaffold_18	32303264	32353734	MSTRG.5619.1	DAB2
scaffold_18	32303264	32353734	MSTRG.5619.2	DAB2
scaffold_18	9024418	9088769	DAP1_g5525.t1	DAP
scaffold_18	57237619	57244116	DDA1_g5831.t1	DDA1
scaffold_18	42488895	42572523	DDX4_g5675.t1	DDX4
scaffold_18	56053329	56060694	MSTRG.5782.2	DDX49
scaffold_18	46807022	46881879	DEP1B_g5696.t1	DEPDC1B
scaffold_18	46802108	46881879	MSTRG.5706.1	DEPDC1B
scaffold_18	42057956	42105151	DHX29_g5671.t1	DHX29
scaffold_18	42057738	42105151	MSTRG.5685.1	DHX29
scaffold_18	42057751	42105151	MSTRG.5685.2	DHX29

scaffold_18	48303641	48314205	DIM1_g5703.t1	DIMT1
scaffold_18	28449674	28474814	DJC21_g5575.t1	DNAJC21
scaffold_18	28449674	28474565	DJC21_g5575.t2	DNAJC21
scaffold_18	11694982	11963081	DYH5_g5530.t1	DNAH5
scaffold_18	58978131	59009146	EAA4_g5882.t1	SLC1A6
scaffold_18	31373525	31547587	EGFLA_g5596.t1	EGFLAM
scaffold_18	56377017	56448549	ELL_g5788.t1	ELL
scaffold_18	46916535	46939907	ELOV7_g5697.t1	ELOVL7
scaffold_18	37894132	37936563	EMB_g5647.t1	EMB
scaffold_18	35367061	35367456	ENVT1_g5623.t1	ERVS71-1
scaffold_18	57901918	57998487	EP15R_g5854.t1	EPS15L1
scaffold_18	58718574	58721677	EPHX3_g5876.t1	EPHX3
scaffold_18	51524178	51603725	ERBIN_g5721.t1	ERBIN
scaffold_18	51479003	51610635	MSTRG.5733.2	ERBIN
scaffold_18	47021035	47086606	ERCC8_g5698.t1	ERCC8
scaffold_18	269813	293178	EXOC3_g5469.t1	EXOC3
scaffold_18	268063	293178	MSTRG.5458.1	EXOC3
scaffold_18	58136290	58140691	FA32A_g5858.t1	FA32A
scaffold_18	54433292	54437724	FA71A_g5735.t1	FA71A
scaffold_18	6602838	6617739	FAKD3_g5515.t1	FASTKD3
scaffold_18	6627123	6633913	FAKD3_g5515.t2	FASTKD3
scaffold_18	13240598	13622206	FBXL7_g5535.t1	FBXL7
scaffold_18	56902997	56939740	FCHO1_g5813.t1	FCHO1
scaffold_18	56357418	56366716	FKBP8_g5787.t1	FKBP8
scaffold_18	40528708	40534949	FST_g5658.t1	FST
scaffold_18	32076586	32232487	FYB1_g5602.t1	FYB1
scaffold_18	55632001	55730762	MSTRG.5767.2	GATAD2A
scaffold_18	56099786	56101521	GDF1_g5777.t1	GDF1
scaffold_18	56490030	56492146	GDF15_g5792.t1	GDF15
scaffold_18	56490030	56514513	GDF15_g5792.t2	GDF15
scaffold_18	19062541	19062938	MSTRG.5545.1	GEN1
scaffold_18	34744065	34930530	GHR_g5618.t1	GHR
scaffold_18	34744262	35000001	MSTRG.5632.3	GHR
scaffold_18	56667882	56670864	GILT_g5799.t1	IFI30
scaffold_18	55531095	55540538	GMIP_g5752.t1	GMIP
scaffold_18	26397466	26446763	GOLP3_g5559.t1	GOLPH3
scaffold_18	26391041	26446763	MSTRG.5575.4	GOLPH3
scaffold_18	43746707	43823479	MSTRG.5697.2	GPBP1
scaffold_18	41955914	41960441	GPX8_g5668.t1	GPX8
scaffold_18	57061981	57079326	GT251_g5816.t1	COLGALT1
scaffold_18	57220724	57223729	GTPB3_g5829.t1	GTPBP3
scaffold_18	33465807	33467200	MSTRG.5624.1	GTPBP2
scaffold_18	58813784	58840702	HACL2_g5878.t1	ILVBL
scaffold_18	57392828	57413288	HAUS8_g5841.t1	HAUS8
scaffold_18	37185156	37389386	HCN1_g5645.t1	HCN1

scaffold_18	37445782	37572853	HCN1_g5646.t1	HCN1
scaffold_18	35636002	35642883	HMCS1_g5633.t1	HMCS1
scaffold_18	56047359	56052399	HOME3_g5773.t1	HOME3
scaffold_18	55814975	55819412	HPLN4_g5763.t1	HPLN4
scaffold_18	4531542	4592624	ICE1_g5505.t1	ICE1
scaffold_18	56667730	56670864	MSTRG.5819.1	IFI30
scaffold_18	42712908	42750515	IL6RB_g5677.t1	IL6RB
scaffold_18	42707311	42767444	MSTRG.5690.2	IL6ST
scaffold_18	56452967	56456300	INO1_g5789.t1	ISYNA1
scaffold_18	56894632	56896085	INSL3_g5811.t1	INSL3
scaffold_18	48493943	48556069	IPO11_g5704.t2	IPO11
scaffold_18	39987272	40082078	ITA1_g5654.t1	ITGA1
scaffold_18	56879958	56891965	JAK3_g5810.t1	JAK3
scaffold_18	56881282	56892902	MSTRG.5825.3	JAK3
scaffold_18	56590388	56591437	JUND_g5795.t1	JUND
scaffold_18	56776315	56798567	KCNN1_g5805.t1	KCNN1
scaffold_18	54248409	54261879	CENPH_g5732.t2	KGD4
scaffold_18	56603027	56606316	MSTRG.5814.1	IQCN
scaffold_18	48236475	48301834	KIF2A_g5702.t1	KIF2A
scaffold_18	48236097	48305209	MSTRG.5719.2	KIF2A
scaffold_18	58019183	58021091	KLF2_g5856.t1	KLF2
scaffold_18	56272256	56299743	KLH26_g5781.t1	KLHL26
scaffold_18	56344210	56351078	KXDL1_g5786.t1	KXD1
scaffold_18	45157487	45157699	LAMA1_g5691.t1	LAMA1
scaffold_18	26858372	26858926	LIPA2_g5563.t1	PPFIA2
scaffold_18	29561093	29589858	LMBD2_g5585.t1	LMBD2
scaffold_18	29555253	29599984	MSTRG.5600.2	LMBRD2
scaffold_18	29555337	29599984	MSTRG.5600.3	LMBRD2
scaffold_18	29555337	29599984	MSTRG.5600.4	LMBRD2
scaffold_18	35934928	35935134	LOX15_g5642.t1	LOX15
scaffold_18	48490513	48493697	LRR70_g5705.t1	LRRC70
scaffold_18	56563858	56573220	LSM4_g5794.t1	LSM4
scaffold_18	56564112	56573220	MSTRG.5801.2	LSM4
scaffold_18	21997373	22047264	LYPA1_g5548.t1	LYPLA1
scaffold_18	56654300	56656684	M17L2_g5798.t1	MPV17L2
scaffold_18	43440425	43509819	M3K1_g5680.t1	MAP3K1
scaffold_18	33772318	33772545	MSTRG.5626.1	MAL2
scaffold_18	56954783	56969136	MAP1S_g5814.t1	MAP1S
scaffold_18	52218968	52303855	MAST3_g5725.t1	MAST3
scaffold_18	52007873	52303855	MAST4_g5723.t1	MAST4
scaffold_18	52383866	52548072	MSTRG.5741.6	MAST4
scaffold_18	57173707	57176970	MB12A_g5824.t1	MB12A
scaffold_18	5336561	5344153	MED10_g5509.t1	MED10
scaffold_18	57761092	57810128	MED26_g5849.t1	MED26
scaffold_18	55889938	55894067	MEF2B_g5768.t1	MEF2B

scaffold_18	43547140	43575895	MIER3_g5682.t1	MIER3
scaffold_18	35371924	35373497	MMP1_g5624.t1	MMP1
scaffold_18	40207638	40214909	MOC2B_g5656.t1	MOCS2
scaffold_18	33582417	33652512	MRO2B_g5612.t1	MROH2B
scaffold_18	26510307	26547625	MSTRG.5571.2	MTMR12
scaffold_18	26502663	26579820	MTMRC_g5560.t1	MTMRC
scaffold_18	42105571	42206799	MTREX_g5672.t1	MTREX
scaffold_18	6638207	6668863	MTRR_g5516.t1	MTRR
scaffold_18	14248403	14461541	MYO10_g5539.t1	MYO10
scaffold_18	57305413	57392489	MSTRG.5854.2	MYO9B
scaffold_18	57305417	57392489	MSTRG.5854.4	MYO9B
scaffold_18	57305418	57392489	MSTRG.5854.5	MYO9B
scaffold_18	57306395	57374970	MYO9B_g5840.t1	MYO9B
scaffold_18	29640828	29682198	NAKD2_g5587.t1	NAKD2
scaffold_18	55611273	55626999	NDUAD_g5757.t1	NDUFA13
scaffold_18	47086804	47246758	NDUF2_g5699.t1	NDUF2
scaffold_18	1388959	1396913	NDUS6_g5492.t1	NDUFS6
scaffold_18	51330031	51391680	NEUL_g5720.t1	NLN
scaffold_18	57080949	57094720	NIBA3_g5817.t1	NIBA3
scaffold_18	35609417	35626562	NIM1_g5632.t1	NIM1K
scaffold_18	30291055	30403262	NIPBL_g5590.t1	NIPBL
scaffold_18	35849247	35929147	NNTM_g5641.t1	NNTM
scaffold_18	58732195	58762734	NOTC3_g5877.t1	NOTCH3
scaffold_18	31867726	31870076	ADAM7_g5599.t1	ADAM7_g5599.t1
scaffold_18	35446392	35446778	BEND3_g5629.t1	BEND3_g5629.t1
scaffold_18	24663173	24664867	FV1_g5550.t1	FV1_g5550.t1
scaffold_18	43785201	43823479	GPBP1_g5683.t1	GPBP1_g5683.t1
scaffold_18	35713755	35713982	LMNB1_g5635.t1	LMNB1_g5635.t1
scaffold_18	2300753	2303894	LRP2_g5497.t1	LRP2_g5497.t1
scaffold_18	8737494	8814636	MARH6_g5522.t1	MARH6_g5522.t1
scaffold_18	10217181	10233918	MIAB_g5529.t1	MIAB_g5529.t1
scaffold_18	7209	80117	MSTRG.5452.2	MSTRG.5452.2
scaffold_18	5404309	5404510	MSTRG.5477.1	MSTRG.5477.1
scaffold_18	5341255	5344153	MSTRG.5478.2	MSTRG.5478.2
scaffold_18	5867305	5867529	MSTRG.5481.1	MSTRG.5481.1
scaffold_18	7776840	7783992	MSTRG.5491.1	MSTRG.5491.1
scaffold_18	8728049	8737230	MSTRG.5496.2	MSTRG.5496.2
scaffold_18	8728049	8737230	MSTRG.5496.3	MSTRG.5496.3
scaffold_18	12121093	12121327	MSTRG.5513.1	MSTRG.5513.1
scaffold_18	14858849	14862777	MSTRG.5527.1	MSTRG.5527.1
scaffold_18	16970211	16971052	MSTRG.5532.1	MSTRG.5532.1
scaffold_18	17385588	17421132	MSTRG.5536.1	MSTRG.5536.1
scaffold_18	19057971	19058263	MSTRG.5543.1	MSTRG.5543.1
scaffold_18	19091591	19091827	MSTRG.5546.1	MSTRG.5546.1
scaffold_18	19094061	19094303	MSTRG.5547.1	MSTRG.5547.1

scaffold_18	19103243	19103575	MSTRG.5549.1	MSTRG.5549.1
scaffold_18	21356281	21356510	MSTRG.5558.1	MSTRG.5558.1
scaffold_18	21837397	21872047	MSTRG.5559.1	MSTRG.5559.1
scaffold_18	21874030	21875106	MSTRG.5560.1	MSTRG.5560.1
scaffold_18	21909339	21909566	MSTRG.5566.1	MSTRG.5566.1
scaffold_18	26384188	26446763	MSTRG.5575.1	MSTRG.5575.1
scaffold_18	27584169	27584389	MSTRG.5580.1	MSTRG.5580.1
scaffold_18	28700339	28700564	MSTRG.5596.1	MSTRG.5596.1
scaffold_18	31632917	31633119	MSTRG.5615.1	MSTRG.5615.1
scaffold_18	31870256	31932611	MSTRG.5617.1	MSTRG.5617.1
scaffold_18	37453423	37453646	MSTRG.5655.1	MSTRG.5655.1
scaffold_18	37809872	37810073	MSTRG.5657.1	MSTRG.5657.1
scaffold_18	41574053	41574265	MSTRG.5681.1	MSTRG.5681.1
scaffold_18	42707311	42773484	MSTRG.5690.1	MSTRG.5690.1
scaffold_18	43884219	43884433	MSTRG.5698.1	MSTRG.5698.1
scaffold_18	46182067	46182286	MSTRG.5705.1	MSTRG.5705.1
scaffold_18	47363610	47363824	MSTRG.5713.1	MSTRG.5713.1
scaffold_18	47478963	47566352	MSTRG.5716.3	MSTRG.5716.3
scaffold_18	48236475	48305209	MSTRG.5719.4	MSTRG.5719.4
scaffold_18	51799448	51799667	MSTRG.5737.1	MSTRG.5737.1
scaffold_18	53059882	53061180	MSTRG.5740.1	MSTRG.5740.1
scaffold_18	52007498	52548072	MSTRG.5741.1	MSTRG.5741.1
scaffold_18	52257044	52548072	MSTRG.5741.5	MSTRG.5741.5
scaffold_18	54399240	54399443	MSTRG.5752.1	MSTRG.5752.1
scaffold_18	55904130	55917740	MSTRG.5773.3	MSTRG.5773.3
scaffold_18	55862983	55875106	MSTRG.5776.1	MSTRG.5776.1
scaffold_18	55862983	55875106	MSTRG.5776.3	MSTRG.5776.3
scaffold_18	57502565	57502775	MSTRG.5866.1	MSTRG.5866.1
scaffold_18	57901888	57998487	MSTRG.5870.3	MSTRG.5870.3
scaffold_18	57901918	57998487	MSTRG.5870.6	MSTRG.5870.6
scaffold_18	57901918	57993309	MSTRG.5870.7	MSTRG.5870.7
scaffold_18	3700910	3701134	PDE4B_g5502.t1	PDE4B_g5502.t1
scaffold_18	56629157	56629399	PDE4C_g5796.t1	PDE4C_g5796.t1
scaffold_18	26200187	26288424	S39A6_g5556.t1	S39A6_g5556.t1
scaffold_18	26910971	26984149	MSTRG.5578.2	NPR3
scaffold_18	55855537	55857072	MSTRG.5774.1	NR2C2AP
scaffold_18	57284725	57294049	NR2F6_g5837.t1	NR2F6
scaffold_18	5526239	5554124	NSUN2_g5511.t1	NSUN2
scaffold_18	30563932	30625885	NU155_g5592.t1	NU155
scaffold_18	57622183	57687686	NWD1_g5845.t1	NWD1
scaffold_18	57154243	57154596	NXNL1_g5821.t1	NXNL1
scaffold_18	57157339	57157707	NXNL1_g5822.t1	NXNL1
scaffold_18	57296655	57298639	OCEL1_g5838.t1	OCEL1
scaffold_18	12537586	12571544	OTUL_g5533.t1	OTULIN
scaffold_18	12492947	12499961	OTULL_g5532.t1	OTULL

scaffold_18	55635377	55692477	P66A_g5759.t1	GATAD2A
scaffold_18	53393564	53469065	P85A_g5728.t1	PIK3R1
scaffold_18	56674304	56683389	P85B_g5800.t1	PIK3R2
scaffold_18	38885611	39001628	PAI2B_g5652.t1	PAIP2B
scaffold_18	38847494	39001628	PAI2B_g5652.t2	PAIP2B
scaffold_18	35797533	35827264	PAIP1_g5640.t1	PAIP1
scaffold_18	5629948	5676930	MSTRG.5482.2	TENT4A
scaffold_18	5629948	5676930	PAPD7_g5513.t1	TENT4A
scaffold_18	57571307	57572661	PAR4_g5843.t2	F2RL3
scaffold_18	38080408	38249173	MSTRG.5660.2	PARP8
scaffold_18	38080408	38254357	MSTRG.5660.3	PARP8
scaffold_18	1121248	1180851	PCAT1_g5488.t1	PCAT1
scaffold_18	619529	636294	PCH2_g5476.t1	TRIP13
scaffold_18	149389	167067	PDCD6_g5466.t1	PDCD6
scaffold_18	56638124	56644872	MSTRG.5816.2	PDE4C
scaffold_18	56634074	56644872	PDE4C_g5797.t1	PDE4C
scaffold_18	56649479	56653005	PDE4C_g5797.t2	PDE4C
scaffold_18	45382077	45382302	MSTRG.5700.1	PDE4D
scaffold_18	45382720	45382983	MSTRG.5701.1	PDE4D
scaffold_18	46167154	46194628	PDE4D_g5695.t2	PDE4D
scaffold_18	26154774	26155253	PDZD2_g5555.t1	PDZD2
scaffold_18	26288435	26384188	PDZD2_g5557.t1	PDZD2
scaffold_18	33319419	33330861	PE2R4_g5606.t1	PTGER4
scaffold_18	39943284	39960292	MSTRG.5662.1	PELO
scaffold_18	39943563	39945015	PELO_g5653.t1	PELO
scaffold_18	54812604	54814397	PGBD2_g5741.t1	PGBD2
scaffold_18	56520630	56550145	PGPI_g5793.t1	PGPEP1
scaffold_18	53382844	53469065	MSTRG.5744.1	PIK3R1
scaffold_18	53383005	53469065	MSTRG.5744.3	PIK3R1
scaffold_18	53383005	53469065	MSTRG.5744.2	PIK3R1
scaffold_18	56673443	56685377	MSTRG.5822.2	PIK3R2
scaffold_18	7350	90103	PKH4B_g5462.t1	PLEKHG4B
scaffold_18	71306	90650	MSTRG.5452.4	PLEKHG4B
scaffold_18	44899605	44904915	PLK2_g5687.t1	PLK2
scaffold_18	51165276	51186944	MSTRG.5728.2	PPWD1
scaffold_18	51165259	51186944	PPWD1_g5716.t1	PPWD1
scaffold_18	28555526	28570182	PRLR_g5577.t1	PRLR
scaffold_18	57184215	57184475	PTCRA_g5825.t1	PTCRA
scaffold_18	58176877	58192876	RAB8A_g5860.t2	RAB8A
scaffold_18	28428754	28435201	RAD1_g5573.t1	RAD1
scaffold_18	28300247	28355016	RAI14_g5572.t1	RAI14
scaffold_18	58523981	58534158	RASL3_g5870.t2	RASL3
scaffold_18	56104325	56136672	RENT1_g5778.t1	RENT1
scaffold_18	14082511	14220186	RETR1_g5538.t1	RETR1
scaffold_18	56335618	56338163	REX1B_g5784.t1	REX1B

scaffold_18	55857279	55861510	RFXK_g5766.t1	RFXK
scaffold_18	31939634	32052025	RICTR_g5601.t1	RICTR
scaffold_18	56864122	56867303	RL18A_g5809.t1	RPL18A
scaffold_18	33441782	33444300	RL37_g5609.t1	RPL37
scaffold_18	27911934	27913343	RL3R1_g5568.t1	RXFP3
scaffold_18	56339644	56341028	RL40_g5785.t1	RL40
scaffold_18	57246022	57246546	RM34_g5832.t1	MRPL34
scaffold_18	1386088	1386424	RM36_g5491.t1	RM36
scaffold_18	49816163	49883300	RN180_g5708.t1	RNF180
scaffold_18	25837845	25950134	RNC_g5553.t1	DROSHA
scaffold_18	49856793	50061719	MSTRG.5722.4	RNF180
scaffold_18	8824095	8837440	ROP1L_g5523.t1	ROPN1L
scaffold_18	49158935	49212819	RPA12_g5706.t1	RPA12
scaffold_18	57736207	57736458	RRP5_g5847.t1	RRP5
scaffold_18	36764717	36772926	RT30_g5644.t1	MRPS30
scaffold_18	796204	854348	S12A7_g5480.t1	SLC12A7
scaffold_18	55927021	55936590	S2542_g5770.t1	S2542
scaffold_18	57112637	57145071	S27A1_g5819.t1	S27A1
scaffold_18	57812562	57833811	S35E1_g5850.t1	S35E1
scaffold_18	5554149	5578444	S5A1_g5512.t1	SRD5A1
scaffold_18	5554308	5578444	S5A1_g5512.t2	SRD5A1
scaffold_18	1056378	1099035	SC6A3_g5487.t1	SC6A3
scaffold_18	55748792	55776004	SCC4_g5760.t1	MAU2
scaffold_18	34191012	34328260	SCOT1_g5615.t1	SCOT1
scaffold_18	115974	144155	SDHA_g5465.t1	SDHA
scaffold_18	35084447	35094388	MSTRG.5631.1	SELENOP
scaffold_18	7618369	7920010	SEM5A_g5518.t1	SEMA5A
scaffold_18	43533794	43539999	MSTRG.5695.1	SETD9
scaffold_18	43533807	43539999	MSTRG.5695.2	SETD9
scaffold_18	43533813	43539674	SETD9_g5681.t1	SETD9
scaffold_18	51260751	51298425	SGTB_g5719.t1	SGTB
scaffold_18	57577344	57617981	MSTRG.5859.2	SIN3B
scaffold_18	57577344	57617981	MSTRG.5859.3	SIN3B
scaffold_18	57578994	57617981	SIN3B_g5844.t2	SIN3B
scaffold_18	29600285	29630582	SKP2_g5586.t1	SKP2
scaffold_18	57111216	57146769	MSTRG.5832.3	SLC27A1
scaffold_18	57111216	57146769	MSTRG.5832.4	SLC27A1
scaffold_18	57736366	57745169	SMIM7_g5848.t1	SMIM7
scaffold_18	41377298	41404332	SNX18_g5661.t1	SNX18
scaffold_18	28995295	29075475	MSTRG.5598.2	SPEF2
scaffold_18	28995434	29176729	SPEF2_g5578.t1	SPEF2
scaffold_18	50396071	50443900	SR1IP_g5712.t1	SR1IP
scaffold_18	51661473	51702360	MSTRG.5738.1	SREK1
scaffold_18	51662462	51700136	SREK1_g5722.t1	SREK1
scaffold_18	56456895	56471926	SSBP4_g5790.t1	SSBP4

scaffold_18	26800068	26820430	MSTRG.5579.2	SUB1
scaffold_18	55776251	55803867	SUGP1_g5761.t1	SUGP1
scaffold_18	55969334	56003047	MSTRG.5780.4	SUGP2
scaffold_18	55970636	56000239	SUGP2_g5772.t1	SUGP2
scaffold_18	58840865	58846781	SYDE1_g5879.t1	SYDE1
scaffold_18	27533297	27559794	SYTC_g5565.t1	TARS1
scaffold_18	55899848	55917740	T161A_g5769.t1	TMEM161A
scaffold_18	27533087	27559794	MSTRG.5581.1	TARS1
scaffold_18	26802681	26818981	TCP4_g5562.t1	SUB1
scaffold_18	8660632	8674120	TCPE_g5520.t1	TCPE
scaffold_18	59059754	59060188	TIAR_g5883.t1	TIAL1
scaffold_18	59060499	59060882	TIAR_g5884.t1	TIAL1
scaffold_18	57158239	57164943	TM221_g5823.t1	TMEM221
scaffold_18	35742965	35747371	TM267_g5636.t1	TMEM267
scaffold_18	57716440	57735264	TM38A_g5846.t1	TMEM38A
scaffold_18	56314162	56318676	TM59L_g5782.t1	TM59L
scaffold_18	55806862	55813408	TM6S2_g5762.t1	TM6SF2
scaffold_18	58196995	58211757	TPM4_g5861.t1	TPM4
scaffold_18	51191133	51220650	TRI23_g5717.t1	TRI23
scaffold_18	12075727	12432099	MSTRG.5512.3	TRIO
scaffold_18	12075683	12432099	TRIO_g5531.t1	TRIO
scaffold_18	55627860	55628681	TSSK6_g5758.t1	TSSK6
scaffold_18	33345071	33379072	TTC33_g5607.t1	TTC33
scaffold_18	29507237	29524440	UD3A1_g5584.t2	UD3A1
scaffold_18	57271735	57280549	USBP1_g5836.t1	USHBP1
scaffold_18	57301106	57303974	USE1_g5839.t1	USE1
scaffold_18	26384188	26384715	WASC5_g5558.t1	WASC5
scaffold_18	30632532	30938472	WDR70_g5593.t1	WDR70
scaffold_18	31616963	31617316	WFC6B_g5598.t1	WFC6B
scaffold_18	58537716	58561798	WIZ_g5871.t1	WIZ
scaffold_18	55609578	55611143	YJEN3_g5756.t1	YJEN3
scaffold_18	523030	581771	ZDH11_g5474.t1	ZDHHC11
scaffold_18	26597562	26682809	MSTRG.5577.2	ZFR
scaffold_18	26600076	26682809	ZFR_g5561.t1	ZFR
scaffold_18	35528554	35557559	ZN131_g5631.t1	ZNF131
scaffold_18	14062243	14075411	ZN622_g5537.t1	ZNF622
scaffold_18	54929495	54931007	ZN672_g5744.t1	ZNF672
scaffold_18	54920250	54928114	ZN692_g5743.t1	ZNF692
scaffold_18	21875570	21890563	MSTRG.5565.1	ZNF555
scaffold_18	54920351	54922748	MSTRG.5759.5	ZNF692
scaffold_18	54159461	54194807	ZNT5_g5731.t1	SLC30A5
scaffold_18	47515026	47566352	MSTRG.5716.4	ZSWIM6
scaffold_18	47478303	47586294	ZSWM6_g5701.t1	ZSWIM6
scaffold_19	17892941	17919088	ACER2_g6044.t1	ACER2
scaffold_19	6919567	6960068	ACOC_g5981.t1	ACO1

scaffold_19	6918849	6940068	MSTRG.5995.2	ACO1
scaffold_19	16919869	17176451	AF9_g6041.t1	MLLT3
scaffold_19	38807452	38862578	AL1A1_g6143.t1	ALDH1A1
scaffold_19	21249058	21255174	MSTRG.6073.1	ALDH1L2
scaffold_19	21249069	21253276	MSTRG.6073.2	ALDH1L2
scaffold_19	39047805	39059765	ANXA1_g6144.t1	ANXA1
scaffold_19	5647691	5650080	AP4A_g5957.t1	NUDT2
scaffold_19	6551376	6562756	APTX_g5976.t1	APTX
scaffold_19	25885687	27676949	MSTRG.6099.1	ASPH
scaffold_19	550154	567127	ECM2_g5891.t2	ASPN
scaffold_19	18310882	18679944	ATL1_g6051.t1	ATL1
scaffold_19	4454201	4617870	AUHM_g5935.t1	AUH
scaffold_19	6411519	6457962	B4GT1_g5973.t1	B4GALT1
scaffold_19	6323140	6331060	BAG1_g5971.t1	BAG1
scaffold_19	6322514	6331060	BAG1_g5971.t2	BAG1
scaffold_19	749050	807863	BICD2_g5894.t1	BICD2
scaffold_19	20117214	20532281	BNC2_g6058.t1	BNC2
scaffold_19	36137584	36179019	CI135_g6131.t1	CFAP95
scaffold_19	10824620	10847296	MSTRG.6018.3	C9ORF72
scaffold_19	10825075	10847296	MSTRG.6018.5	C9ORF72
scaffold_19	11370441	11420224	CAAP1_g5995.t1	CAAP1
scaffold_19	40844736	40844987	CAF1A_g6157.t1	CHAF1A
scaffold_19	931586	944278	CAR19_g5897.t1	CARD19
scaffold_19	40699707	40737920	CARME_g6154.t1	CARNMT1
scaffold_19	54874904	54876907	CATL1_g6214.t1	CPT1C
scaffold_19	57348468	57351776	CATL1_g6236.t1	CPT1C
scaffold_19	34704884	34747917	CBWD2_g6120.t1	ZNG1B
scaffold_19	56821069	56920468	CC14B_g6230.t1	CDC14B
scaffold_19	20907363	21200438	CC171_g6060.t1	CCDC171
scaffold_19	5389555	5390227	CCL27_g5944.t1	CCL27
scaffold_19	30874091	30891647	CD37L_g6103.t1	CDC37L1
scaffold_19	2024093	2031348	CDK20_g5915.t1	CDK20
scaffold_19	2023192	2031348	MSTRG.5927.4	CDK20
scaffold_19	15195717	15202196	CDN2B_g6006.t1	CDKN2B
scaffold_19	454048	474806	CENPP_g5890.t1	CENPP
scaffold_19	43561563	43593162	CEP78_g6168.t1	CEP78
scaffold_19	6310012	6322413	CHMP5_g5970.t1	CHMP5
scaffold_19	40560730	40571918	CI040_g6149.t1	C9ORF40
scaffold_19	10829183	10847296	CI072_g5985.t1	C9ORF72
scaffold_19	37979529	38031796	CI085_g6138.t1	C9ORF85
scaffold_19	50523663	50524097	CLCN7_g6191.t1	CLCN7
scaffold_19	19575148	19902045	CNTLN_g6057.t1	CNTLN
scaffold_19	19619591	19902045	MSTRG.6070.3	CNTLN
scaffold_19	54873692	54874667	MSTRG.6304.2	CTSL
scaffold_19	54667821	54843556	DAPK1_g6213.t1	DAPK1

scaffold_19	5831345	5864897	DCA12_g5961.t1	DCAF12
scaffold_19	5424433	5430431	DCTN3_g5948.t1	DCTN3
scaffold_19	6873064	6914179	DDX58_g5980.t1	RIGI
scaffold_19	17954919	18043463	DEN4C_g6046.t1	DENND4C
scaffold_19	56549259	56591654	DHB3_g6223.t1	HSD17B3
scaffold_19	14882512	14887333	DMRTA_g6003.t1	DMRTA1
scaffold_19	5509327	5568134	DNAI1_g5952.t1	DNAI1
scaffold_19	6514808	6525329	DNJA1_g5975.t1	DNAJA1
scaffold_19	34470371	34679661	DOCK8_g6118.t1	DOCK8
scaffold_19	30967027	31036243	EAA3_g6107.t1	SLC1A1
scaffold_19	504287	518360	ECM2_g5891.t1	ECM2
scaffold_19	587305	635439	ECM2_g5891.t3	ECM2
scaffold_19	13833248	13906517	ELAV2_g6001.t1	ELAVL2
scaffold_19	13780578	13906840	MSTRG.6031.1	ELAVL2
scaffold_19	5508394	5508624	ENHO_g5951.t1	ENHO
scaffold_19	56215091	56349918	ER6L2_g6222.t1	ERCC6L2
scaffold_19	29839977	29900451	ERMP1_g6092.t1	ERMP1
scaffold_19	54954972	54980539	F16P1_g6217.t1	F16P1
scaffold_19	54892760	54945036	F16P2_g6216.t1	F16P2
scaffold_19	35721891	35780965	F1892_g6128.t1	F1892
scaffold_19	5331108	5350847	F205A_g5941.t1	F205A
scaffold_19	5567854	5618868	MSTRG.5964.1	FAM219A
scaffold_19	5568136	5618868	MSTRG.5964.2	FAM219A
scaffold_19	17890201	17890633	MSTRG.6057.1	GARIN5B
scaffold_19	1992104	2019790	FBW12_g5913.t1	FBXW12
scaffold_19	864311	895646	FGD3_g5895.t1	FGD3
scaffold_19	16574227	16864331	FOCAD_g6040.t1	FOCAD
scaffold_19	49435120	49713014	FRMD3_g6183.t1	FRMD3
scaffold_19	34755889	34757220	FX4L1_g6121.t1	FX4L1
scaffold_19	3169272	3170190	GA45G_g5930.t1	GADD45G
scaffold_19	5870679	5871224	GALT_g5962.t1	GALT
scaffold_19	5871538	5872158	GALT_g5963.t1	GALT
scaffold_19	5390351	5398978	MSTRG.5956.1	GALT
scaffold_19	5390352	5397710	MSTRG.5956.2	GALT
scaffold_19	54169548	54170588	GAS1_g6212.t1	GAS1
scaffold_19	42020473	42021859	GCNT1_g6161.t1	GCNT1
scaffold_19	42020371	42021859	GCNT1_g6161.t2	GCNT1
scaffold_19	51714228	51719524	GDF10_g6203.t1	GDF10
scaffold_19	50338526	50400706	GKAP1_g6189.t1	GKAP1
scaffold_19	29091750	29184363	GCSP_g6084.t1	GLDC
scaffold_19	29091009	29184363	MSTRG.6110.1	GLDC
scaffold_19	31223000	31643307	GLIS3_g6108.t1	GLIS3
scaffold_19	43109989	43392664	GNAQ_g6167.t1	GNAQ
scaffold_19	50213555	50233998	GNTK_g6187.t1	GNTK
scaffold_19	53360551	53422053	MSTRG.6298.2	GOLM1

scaffold_19	15159160	15178027	GP156_g6004.t1	GPR156
scaffold_19	38186469	38274815	GUAD_g6140.t1	GDA
scaffold_19	56767164	56810980	HABP4_g6228.t1	HABP4
scaffold_19	16546024	16567285	HACD4_g6039.t1	HACD4
scaffold_19	18164584	18198742	HAUS6_g6048.t1	HAUS6
scaffold_19	50564219	50573304	HNRPK_g6193.t1	HNRPK
scaffold_19	5390742	5396032	I11RA_g5945.t1	I11RA
scaffold_19	5400756	5403930	I11RA_g5945.t2	I11RA
scaffold_19	19225644	19226936	IF5_g6054.t2	EIF5
scaffold_19	15717075	15717587	IFNA2_g6014.t2	IFNA2
scaffold_19	16415915	16416556	IFNB_g6032.t1	IFNB
scaffold_19	16416002	16416556	IFNB_g6032.t2	IFNB
scaffold_19	16504196	16504837	IFNB_g6037.t1	IFNB
scaffold_19	16054137	16054349	IFNW1_g6021.t1	IFNW1
scaffold_19	16444602	16445174	IFNW2_g6035.t1	IFNW2
scaffold_19	18825039	18825425	IL36G_g6052.t1	IL36G
scaffold_19	30393392	30399520	INSL6_g6098.t1	INSL6
scaffold_19	30443092	30453184	INSL6_g6098.t2	INSL6
scaffold_19	53580939	53592207	GOLM1_g6209.t2	ISCA1
scaffold_19	30475944	30573432	JAK2_g6099.t1	JAK2
scaffold_19	29688550	29776628	K2026_g6089.t1	BRD10
scaffold_19	29688523	29774920	K2026_g6089.t2	BRD10
scaffold_19	29775264	29776628	K2026_g6090.t1	BRD10
scaffold_19	30853979	30867327	KAD3_g6102.t1	AK3
scaffold_19	28709565	28940373	KDM4C_g6083.t1	KDM4C
scaffold_19	36623960	36644857	KLF9_g6134.t1	KLF9
scaffold_19	16021230	16023083	KLHL9_g6019.t1	KLHL9
scaffold_19	6339027	6344160	KRT83_g5972.t1	KRT83
scaffold_19	4158020	4212431	KSYK_g5934.t2	SYK
scaffold_19	10533233	10534990	LIGO2_g5984.t1	LIGO2
scaffold_19	5386048	5386778	DPO4_g5943.t1	LOC101405672
scaffold_19	56609071	56609433	LOXL4_g6224.t1	LOXL4
scaffold_19	11298414	11303075	LRC19_g5993.t1	LRC19
scaffold_19	23522870	23564930	LUR1L_g6071.t1	LUR1L
scaffold_19	40626330	40626824	MACF1_g6153.t1	MACF1
scaffold_19	29786109	29797346	MAR1_g6091.t1	RTL1
scaffold_19	44961453	45054447	MDR1A_g6173.t1	MDR1A
scaffold_19	34664	109598	MF14B_g5885.t1	MFSD14B
scaffold_19	23732125	23733461	MFSD1_g6073.t1	MFSD1
scaffold_19	23732125	23733603	MFSD1_g6074.t1	MFSD1
scaffold_19	16920112	17200742	MSTRG.6055.6	MLLT3
scaffold_19	16920143	17203558	MSTRG.6055.7	MLLT3
scaffold_19	10929455	11043988	MOB3B_g5988.t1	MOB3B
scaffold_19	23143404	23275068	MPDZ_g6070.t1	MPDZ
scaffold_19	5637231	5639276	MYORG_g5956.t1	MYORG

scaffold_19	5637132	5639276	MYORG_g5956.t2	MYORG
scaffold_19	53259220	53354277	MSTRG.6297.2	NAA35
scaffold_19	53260163	53354277	NAA35_g6208.t1	NAA35
scaffold_19	6839510	6848829	NDUB6_g5978.t1	NDUB6
scaffold_19	22216533	22435851	NFIB_g6067.t1	NFIB
scaffold_19	4664274	4665841	NFIL3_g5937.t1	NFIL3
scaffold_19	6238270	6301073	NFX1_g5969.t1	NFX1
scaffold_19	4360962	4361166	MSTRG.5939.1	NHSL2
scaffold_19	955001	963365	NINJ1_g5898.t1	NINJ1
scaffold_19	6154995	6165595	NOL6_g5966.t1	NOL6
scaffold_19	425003	453957	MSTRG.5901.6	NOL8
scaffold_19	421518	452351	NOL8_g5889.t1	NOL8
scaffold_19	34552465	34556891	ANGL3_g6119.t1	ANGL3_g6119.t1
scaffold_19	12378882	12380306	FV1_g5999.t1	FV1_g5999.t1
scaffold_19	28183929	28249326	LRCH1_g6081.t1	LRCH1_g6081.t1
scaffold_19	1842282	1888507	MSTRG.5924.2	MSTRG.5924.2
scaffold_19	1915746	1921381	MSTRG.5925.1	MSTRG.5925.1
scaffold_19	2266258	2338169	MSTRG.5930.1	MSTRG.5930.1
scaffold_19	5660072	5727790	MSTRG.5966.1	MSTRG.5966.1
scaffold_19	5897461	6016976	MSTRG.5972.3	MSTRG.5972.3
scaffold_19	6884185	6884400	MSTRG.5989.1	MSTRG.5989.1
scaffold_19	10067048	10067259	MSTRG.5998.1	MSTRG.5998.1
scaffold_19	9776014	9776231	MSTRG.6006.1	MSTRG.6006.1
scaffold_19	9812327	9812540	MSTRG.6007.1	MSTRG.6007.1
scaffold_19	10229707	10229917	MSTRG.6010.1	MSTRG.6010.1
scaffold_19	12160375	12160590	MSTRG.6028.1	MSTRG.6028.1
scaffold_19	16505659	16536766	MSTRG.6049.1	MSTRG.6049.1
scaffold_19	19745106	19789307	MSTRG.6070.4	MSTRG.6070.4
scaffold_19	23118328	23275068	MSTRG.6092.3	MSTRG.6092.3
scaffold_19	23118358	23275068	MSTRG.6092.4	MSTRG.6092.4
scaffold_19	23118358	23275068	MSTRG.6092.5	MSTRG.6092.5
scaffold_19	29518841	29519041	MSTRG.6112.1	MSTRG.6112.1
scaffold_19	31211309	31211520	MSTRG.6137.1	MSTRG.6137.1
scaffold_19	31286935	31287161	MSTRG.6139.1	MSTRG.6139.1
scaffold_19	31412989	31413200	MSTRG.6146.1	MSTRG.6146.1
scaffold_19	35264037	35264260	MSTRG.6162.1	MSTRG.6162.1
scaffold_19	36018141	36018365	MSTRG.6170.1	MSTRG.6170.1
scaffold_19	36958462	36958759	MSTRG.6181.1	MSTRG.6181.1
scaffold_19	38331647	38331864	MSTRG.6191.1	MSTRG.6191.1
scaffold_19	41974927	42026554	MSTRG.6217.1	MSTRG.6217.1
scaffold_19	42379803	42380005	MSTRG.6218.1	MSTRG.6218.1
scaffold_19	45785297	45785500	MSTRG.6230.1	MSTRG.6230.1
scaffold_19	46622675	46622897	MSTRG.6232.1	MSTRG.6232.1
scaffold_19	48720547	48720749	MSTRG.6241.1	MSTRG.6241.1
scaffold_19	49324739	49324941	MSTRG.6242.1	MSTRG.6242.1

scaffold_19	49779719	49779950	MSTRG.6246.1	MSTRG.6246.1
scaffold_19	52022338	52026206	MSTRG.6291.1	MSTRG.6291.1
scaffold_19	52022338	52026206	MSTRG.6291.2	MSTRG.6291.2
scaffold_19	56220788	56225620	MSTRG.6323.1	MSTRG.6323.1
scaffold_19	56622041	56657016	MSTRG.6327.5	MSTRG.6327.5
scaffold_19	1638740	1656825	PO2F2_g5905.t1	PO2F2_g5905.t1
scaffold_19	51186366	51186731	NPAP1_g6198.t1	NPAP1
scaffold_19	2367932	2374604	NXNL2_g5921.t1	NXNL2
scaffold_19	528289	530093	OMD_g5892.t1	OMD
scaffold_19	53597235	53646976	OSMR_g6210.t1	OSMR
scaffold_19	40786579	40835928	OSTF1_g6156.t1	OSTF1
scaffold_19	35200323	35201186	PBIR1_g6125.t1	PABIR1
scaffold_19	41409171	41683926	PCSK5_g6159.t1	PCSK5
scaffold_19	30193937	30209578	PD1L1_g6095.t1	CD274
scaffold_19	30109475	30140655	PD1L2_g6094.t1	PD1L2
scaffold_19	1326014	1412534	MSTRG.5916.1	PHF2
scaffold_19	35242224	35411656	PI51B_g6126.t1	PIP5K1B
scaffold_19	35482542	35508571	PI51B_g6126.t2	PIP5K1B
scaffold_19	56968464	56968937	PKDRE_g6233.t1	PKDREJ
scaffold_19	11324581	11363515	PLAP_g5994.t1	PLAA
scaffold_19	30220696	30266245	MSTRG.6121.1	PLGRKT
scaffold_19	18134413	18159698	PLIN2_g6047.t1	PLIN2
scaffold_19	30904918	30905799	PLPP6_g6105.t1	PLPP6
scaffold_19	30261081	30266245	PLRKT_g6096.t1	PLRKT
scaffold_19	10866424	10929320	PRP4B_g5986.t1	PRPF4B
scaffold_19	43623781	43654359	SERC_g6169.t1	PSAT1
scaffold_19	21255909	21295281	PSIP1_g6061.t1	PSIP1
scaffold_19	36049135	36094246	PTAR1_g6130.t1	PTAR1
scaffold_19	55790310	55792866	MSTRG.6313.1	PTCH2
scaffold_19	1708207	1724943	PTPC1_g5906.t1	PTPC1
scaffold_19	27288500	27421357	PTPRD_g6079.t2	PTPRD
scaffold_19	27485930	27675110	PTPRD_g6080.t1	PTPRD
scaffold_19	56960687	56968405	PXL2C_g6232.t1	PXL2C
scaffold_19	50537490	50549544	QSPP_g6192.t1	QSPP
scaffold_19	47747457	47819305	MSTRG.6245.1	RASEF
scaffold_19	57404803	57430815	ZN157_g6237.t1	RBAK
scaffold_19	30759996	30815622	RCL1_g6101.t1	RCL1
scaffold_19	11080238	11119442	REXO1_g5990.t1	REXO1
scaffold_19	41914463	41915775	MSTRG.6215.2	RFK
scaffold_19	31851192	32123009	RFX3_g6109.t1	RFX3
scaffold_19	29902063	29933848	MSTRG.6119.2	RIC1
scaffold_19	29942922	30056475	RIC1_g6093.t2	RIC1
scaffold_19	41908780	41915775	RIFK_g6160.t1	RIFK
scaffold_19	14179417	14179701	RL36A_g6002.t1	RPL36A
scaffold_19	50590769	50593338	RMI1_g6195.t1	RMI1

scaffold_19	50590673	50593338	RMI1_g6195.t2	RMI1
scaffold_19	29680612	29684732	RNBP6_g6088.t1	RANBP6
scaffold_19	4889855	4984605	ROR2_g5938.t1	ROR2
scaffold_19	5431930	5433679	RP25L_g5949.t1	RP25L
scaffold_19	18201352	18202227	RRAGA_g6049.t1	RRAGA
scaffold_19	17947184	17951275	RS6_g6045.t1	RPS6
scaffold_19	2679014	2680144	S1PR3_g5925.t1	S1PR3
scaffold_19	51395385	51421365	S28A3_g6200.t1	SLC28A3
scaffold_19	51763897	51826025	S28A3_g6204.t1	SLC28A3
scaffold_19	40572126	40587034	S31D1_g6150.t1	SPATA31D1
scaffold_19	40582565	40587034	S31D1_g6151.t1	SPATA31D1
scaffold_19	40600537	40601553	S31D1_g6152.t1	SPATA31D1
scaffold_19	46843953	46845305	S31D1_g6178.t1	SPATA31D1
scaffold_19	50066138	50067094	S31D1_g6186.t1	SPATA31D1
scaffold_19	2916383	2920460	SEBP2_g5928.t1	SECISBP2
scaffold_19	2922473	2962678	SEBP2_g5928.t2	SECISBP2
scaffold_19	2922385	2962678	MSTRG.5934.1	SECISBP2
scaffold_19	2965833	2977577	SEM4D_g5929.t1	SEM4D
scaffold_19	2979170	2999504	SEM4D_g5929.t2	SEM4D
scaffold_19	45429003	45429230	MSTRG.6231.1	SGK1
scaffold_19	5407457	5410024	SGMR1_g5946.t1	SIGMAR1
scaffold_19	5407340	5410024	SGMR1_g5946.t2	SIGMAR1
scaffold_19	19285447	19496336	SH3G2_g6055.t1	SH3GL2
scaffold_19	5407394	5410024	MSTRG.5959.2	SIGMAR1
scaffold_19	51794689	51798177	MSTRG.6286.2	SLC28A3
scaffold_19	56612958	56657016	MSTRG.6327.1	SLC35D2
scaffold_19	56612963	56657016	MSTRG.6327.3	SLC35D2
scaffold_19	36501696	36576538	SMC5_g6133.t1	SMC5
scaffold_19	6486565	6509124	SMU1_g5974.t1	SMU1
scaffold_19	21298634	21335387	SNPC3_g6062.t1	SNAPC3
scaffold_19	30906250	30950627	SPA6L_g6106.t1	SPA6L
scaffold_19	40584582	40640081	MSTRG.6204.1	SPATA31D1
scaffold_19	2296283	2338169	SPIN1_g5920.t1	SPIN1
scaffold_19	5151387	5214322	SPTC1_g5939.t1	SPTC1
scaffold_19	317442	317972	STRAB_g5887.t1	STRADB
scaffold_19	1251573	1316364	SUCB1_g5901.t1	SUCLA2
scaffold_19	908827	925567	SUSD3_g5896.t1	SUSD3
scaffold_19	338439	370445	SYIC_g5888.t1	IARS1
scaffold_19	11120267	11218832	MSTRG.6019.1	TEK
scaffold_19	11122224	11218832	TIE2_g5991.t1	TIE2
scaffold_19	46512878	46597748	TLE1_g6177.t1	TLE1
scaffold_19	44788636	44928490	MSTRG.6229.2	TLE4
scaffold_19	44788812	44911266	TLE4_g6172.t1	TLE4
scaffold_19	37758030	37771532	MSTRG.6187.2	CEMIP2
scaffold_19	56189236	56189446	MSTRG.6320.1	TMEM217

scaffold_19	56910038	56910298	TOM7_g6231.t1	TOM7
scaffold_19	6849480	6858484	TOPRS_g5979.t1	TOPRS
scaffold_19	30894376	30901648	TRNK1_g6104.t1	TRANK1
scaffold_19	37266733	37266949	MSTRG.6186.1	TRPM3
scaffold_19	36952397	37264028	TRPM3_g6135.t1	TRPM3
scaffold_19	21446308	21574760	TT39B_g6063.t1	TTC39B
scaffold_19	21446431	21447413	MSTRG.6078.1	TTC39B
scaffold_19	12355799	12356392	TUSC1_g5998.t1	TUSC1
scaffold_19	6021552	6144092	UB2R2_g5965.t1	UBE2R2
scaffold_19	5878900	6016976	UBAP2_g5964.t1	UBAP2
scaffold_19	50246469	50295400	UBQL1_g6188.t1	UBQLN1
scaffold_19	29201555	29286068	UHRF2_g6085.t1	UHRF2
scaffold_19	32610484	32639787	VLDLR_g6113.t1	VLDLR
scaffold_19	1001230	1118150	WNK2_g5900.t1	WNK2
scaffold_19	53596208	53661231	MSTRG.6301.2	TUT7
scaffold_19	53596211	53661231	MSTRG.6301.3	TUT7
scaffold_19	2178525	2179628	ZDH17_g5918.t1	ZDHHC17
scaffold_19	21901723	21957725	ZDH21_g6066.t1	ZDHHC21
scaffold_19	38357408	38362431	ZFAN5_g6141.t1	ZFAND5
scaffold_19	1856302	1888507	ZN169_g5909.t1	ZNF169
scaffold_19	56661942	56681759	ZN367_g6226.t1	ZNF367
scaffold_19	249313	257881	ZN484_g5886.t1	ZNF484
scaffold_19	57121457	57147358	ZN510_g6235.t1	ZNF510
scaffold_19	57742112	57785029	ZN658_g6239.t1	ZNF658
scaffold_19	57770839	57773313	ZN658_g6240.t2	ZNF658
scaffold_19	57050984	57091969	ZN782_g6234.t1	ZNF782
scaffold_19	57048929	57052057	MSTRG.6335.4	ZNF782
scaffold_19	31301931	31302163	MSTRG.6140.1	ZNF81
scaffold_19	35591930	35670243	ZO2_g6127.t1	TJP2
scaffold_2	24406117	24473252	2A5A_g6477.t1	PPP2R5A
scaffold_2	70927815	71057249	ABCA4_g7092.t1	ABCA4
scaffold_2	70612737	70685766	ABCD3_g7090.t1	ABCD3
scaffold_2	14556101	14664130	MSTRG.6510.2	ABL2
scaffold_2	87295098	87329836	MSTRG.7206.2	ACADM
scaffold_2	15615632	15813629	ACBD6_g6407.t1	ACBD6
scaffold_2	48097190	48103872	MSTRG.6890.2	ACP6
scaffold_2	49277004	49278995	ADA30_g6910.t1	ADAM30
scaffold_2	42080102	42087714	MSTRG.6758.3	ADAM15
scaffold_2	46047243	46058071	MSTRG.6842.3	ADAMTSL4
scaffold_2	42441030	42483569	MSTRG.6768.4	ADAR
scaffold_2	42458088	42483569	MSTRG.6768.6	ADAR
scaffold_2	81887001	81893141	MSTRG.7183.4	ADGRL2
scaffold_2	81886457	82036025	AGRL2_g7167.t1	ADGRL2
scaffold_2	96212867	96280968	MSTRG.7253.4	AK4
scaffold_2	96212867	96281912	MSTRG.7253.5	AK4

scaffold_2	30350425	30379462	AL9A1_g6527.t1	ALDH9A1
scaffold_2	30350353	30379462	AL9A1_g6527.t2	ALDH9A1
scaffold_2	70124227	70207676	ALG14_g7084.t1	ALG14
scaffold_2	97788748	97841804	ALG6_g7247.t1	ALG6
scaffold_2	97787799	97845137	MSTRG.7266.2	ALG6
scaffold_2	57974599	57984176	ALX3_g7007.t1	ALX3
scaffold_2	57984070	58008646	MSTRG.6984.1	ALX3
scaffold_2	58522575	58524056	AMGO1_g7020.t1	AMIGO1
scaffold_2	58412053	58422733	AMPD2_g7015.t1	AMPD2
scaffold_2	63011951	63078328	MSTRG.7040.1	AMY2A
scaffold_2	63012445	63078328	MSTRG.7040.3	AMY2A
scaffold_2	63012446	63078328	MSTRG.7040.6	AMY2A
scaffold_2	63012445	63078328	MSTRG.7040.4	AMY2B
scaffold_2	63012445	63078328	MSTRG.7040.5	AMY2B
scaffold_2	63007947	63011564	AMYP_g7050.t1	AMY2A
scaffold_2	92033465	92131918	AN13C_g7209.t1	ANKRD13C
scaffold_2	46360418	46369698	AN32E_g6852.t2	ANP32E
scaffold_2	47585760	47587250	AN34A_g6880.t1	ANKRD34A
scaffold_2	23841969	23857999	ANGE2_g6464.t1	ANGEL2
scaffold_2	23841969	23857999	ANGE2_g6464.t2	ANGEL2
scaffold_2	14340325	14362680	ANGL1_g6391.t1	ANGPTL1
scaffold_2	98428641	98556095	DOCK7_g7251.t1	ANGPTL3
scaffold_2	60523828	60525174	ANM6_g7046.t1	PRMT6
scaffold_2	43158316	43170440	ANPRA_g6753.t1	NPR1
scaffold_2	47644245	47659078	ANR35_g6886.t1	ANKRD35
scaffold_2	9750922	9795478	ANR45_g6363.t1	ANKRD45
scaffold_2	45702983	45711558	ANXA9_g6834.t1	ANXA9
scaffold_2	54458401	54467458	MSTRG.6944.3	AP4B1
scaffold_2	54458460	54472065	MSTRG.6944.4	AP4B1
scaffold_2	41424848	41447129	ARHG2_g6695.t1	ARHGEF2
scaffold_2	41675340	41875105	ASH1L_g6703.t1	ASH1L
scaffold_2	52252377	52282730	AT1A1_g6934.t1	ATP1A1
scaffold_2	36243415	36271786	AT1A4_g6592.t1	ATP1A4
scaffold_2	5772727	5796445	AT1B1_g6327.t1	ATP1B1
scaffold_2	496120	539966	AT2B4_g6247.t1	ATP2B4
scaffold_2	56723008	56737256	AT5F1_g6983.t1	ATP5PB
scaffold_2	42693001	42710740	AT8B2_g6738.t1	ATP8B2
scaffold_2	24174744	24188679	MSTRG.6573.2	ATF3
scaffold_2	33700150	33914010	MSTRG.6647.1	ATF6
scaffold_2	33700151	33914720	MSTRG.6647.2	ATF6
scaffold_2	33705246	33914010	ATF6A_g6549.t1	ATF6
scaffold_2	98276975	98346323	ATG4C_g7249.t1	ATG4C
scaffold_2	46047243	46055513	ATL4_g6842.t1	ADAMTSL4
scaffold_2	34478055	34485235	ATS4_g6564.t2	ADAMTS4
scaffold_2	96059100	96188482	AUXI_g7235.t1	DNAJC6

scaffold_2	14794234	14895802	AXDN1_g6395.t1	AXDND1
scaffold_2	54607044	54611468	B2L15_g6960.t1	BCL2L15
scaffold_2	34494481	34499037	B4GT3_g6565.t1	ZBTB32
scaffold_2	53857924	53870588	MSTRG.6941.1	BCAS2
scaffold_2	78959046	78968411	BCL10_g7145.t1	BCL10
scaffold_2	90239831	91060812	MSTRG.7216.1	BCL11B
scaffold_2	48123672	48136564	BCL9_g6898.t1	BCL9
scaffold_2	48122485	48147152	MSTRG.6892.2	BCL9
scaffold_2	48122496	48140120	MSTRG.6892.3	BCL9
scaffold_2	48123882	48135292	MSTRG.6892.5	BCL9
scaffold_2	48123882	48135292	MSTRG.6892.6	BCL9
scaffold_2	46637153	46637569	BOLA1_g6859.t1	BOLA1
scaffold_2	72731491	72777490	BRDT_g7113.t1	BRDT
scaffold_2	6402346	6443478	CA112_g6337.t1	FIRRM
scaffold_2	46290063	46294930	CIART_g6849.t2	C1ORF54
scaffold_2	34368165	34396192	C560_g6556.t1	SDHC
scaffold_2	19315178	19455045	CA021_g6438.t1	C1ORF216
scaffold_2	42778587	42792412	CA043_g6741.t1	C1ORF43
scaffold_2	78977395	78984203	CA052_g7146.t1	C1ORF52
scaffold_2	26583115	26584484	CA074_g6498.t1	C1ORF74
scaffold_2	16596198	16945405	CAC1E_g6415.t1	CACNA1E
scaffold_2	74805022	74805300	CADH3_g7127.t1	CDH3
scaffold_2	46301585	46307046	CAH14_g6851.t1	CA14
scaffold_2	96697566	96897503	CAHD1_g7240.t1	CACHD1
scaffold_2	33339993	33604227	CAPON_g6546.t2	NOS1AP
scaffold_2	36230381	36239084	CASQ1_g6591.t2	CASQ1
scaffold_2	52777388	52839726	CASQ2_g6939.t1	CASQ2
scaffold_2	2403184	2417655	CATE_g6280.t1	CTSE
scaffold_2	45856808	45866779	CATK_g6837.t1	CTSK
scaffold_2	55659653	55706127	CAZA1_g6973.t1	CAPZA1
scaffold_2	65524362	65664237	CC14A_g7060.t1	CDC14A
scaffold_2	6035030	6068796	CC181_g6330.t1	CCDC181
scaffold_2	32823996	32829632	CC190_g6539.t1	CCDC190
scaffold_2	71655215	71761376	CCD18_g7098.t1	CCDC18
scaffold_2	71699943	71765331	MSTRG.7103.4	CCDC18
scaffold_2	78693562	78695597	CCN1_g7144.t1	CCN1
scaffold_2	579483	601807	CCNA2_g6248.t1	CCNA2
scaffold_2	38571847	38624946	CD1A_g6647.t1	CD1A
scaffold_2	38739454	38861521	MSTRG.6705.1	CD1B
scaffold_2	38739631	38742781	CD1D_g6649.t1	CD1D
scaffold_2	38856191	38861521	MSTRG.6705.3	CD1D
scaffold_2	35828117	35839030	CD48_g6581.t1	CD48
scaffold_2	29338545	29366804	MSTRG.6625.2	CD55
scaffold_2	73146199	73169732	CDC7_g7115.t1	CDC7
scaffold_2	73141939	73170101	MSTRG.7118.2	CDC7

scaffold_2	2051395	2060357	CDK18_g6271.t1	CDK18
scaffold_2	2035233	2060357	MSTRG.6385.2	CDK18
scaffold_2	15317705	15383511	CE350_g6403.t1	CEP350
scaffold_2	15384079	15457276	CE350_g6404.t1	CEP350
scaffold_2	58704506	58728248	CELR2_g7028.t1	CELSR2
scaffold_2	22348223	22402226	CENPF_g6457.t1	CENPF
scaffold_2	15296533	15457276	MSTRG.6518.1	CEP350
scaffold_2	15296533	15457276	MSTRG.6518.2	CEP350
scaffold_2	56950949	56981514	CEPT1_g6991.t2	CEPT1
scaffold_2	45712205	45727752	CERS2_g6835.t1	CERS2
scaffold_2	36507820	36532721	CFA45_g6601.t1	CFAP45
scaffold_2	91956417	91975336	CGL_g7208.t1	CTH
scaffold_2	43195951	43203115	CHTOP_g6756.t1	CHTOP
scaffold_2	46283592	46287167	CIART_g6849.t1	CIART
scaffold_2	45253065	45274729	CING_g6814.t1	CGN
scaffold_2	42147483	42150427	CKS1_g6726.t1	CKS1B
scaffold_2	77917973	77947751	CLCA2_g7140.t1	CLCA2
scaffold_2	77955985	77994418	CLCA2_g7140.t2	CLCA2
scaffold_2	38989323	38989627	MSTRG.6700.1	CLHC1
scaffold_2	41934912	41941908	CLK2_g6708.t1	CLK2
scaffold_2	41934912	41941908	MSTRG.6741.2	CLK2
scaffold_2	41934912	41941908	MSTRG.6741.3	CLK2
scaffold_2	70253609	70280640	CNN3_g7086.t1	CNN3
scaffold_2	34676773	34679953	CNTN3_g6577.t1	CNTN3
scaffold_2	78195694	78559713	COOA1_g7142.t1	COL24A1
scaffold_2	11716653	11955482	COP1_g6381.t1	COP1
scaffold_2	36112820	36153605	COPA_g6588.t1	COPA
scaffold_2	28715362	28761517	CR1_g6511.t1	CR1
scaffold_2	28811131	28842242	CR2_g6512.t1	CR2
scaffold_2	44446291	44446572	RAD18_g6790.t1	CRCT1
scaffold_2	4330254	4346238	CREG1_g6312.t1	CREG1
scaffold_2	53677010	53682428	CSDE1_g6946.t1	CSDE1
scaffold_2	53708379	53732060	CSDE1_g6946.t2	CSDE1
scaffold_2	58117711	58130862	CSF1_g7010.t1	CSF1
scaffold_2	55850976	55857549	CT2NL_g6976.t1	CTTNBP2NL
scaffold_2	70282391	70356946	CTL3_g7087.t1	SLC44A3
scaffold_2	87393548	87709904	CTL5_g7190.t1	SLC44A5
scaffold_2	45887822	45906932	MSTRG.6829.1	CTSS
scaffold_2	48021686	48022762	CXA5_g6896.t1	GJA5
scaffold_2	47889226	47890545	CXA8_g6894.t1	GJA8
scaffold_2	10890193	10900415	CYBP_g6375.t1	CACYBP
scaffold_2	29340318	29366804	DAF_g6516.t1	CD55
scaffold_2	4670201	4799737	DCAF6_g6315.t1	DCAF6
scaffold_2	36188788	36214926	DCAF8_g6590.t1	DCAF8
scaffold_2	42090737	42104955	DCST1_g6723.t1	DCST1

scaffold_2	56455502	56465399	DDX20_g6978.t1	DDX20
scaffold_2	34538567	34541946	DEDD_g6568.t1	DEDD
scaffold_2	53819207	53853997	DEN2C_g6949.t1	DENND2C
scaffold_2	56933232	56950737	DEN2D_g6990.t1	DENND2D
scaffold_2	42961666	42971175	DEN4B_g6749.t1	DENND4B
scaffold_2	56950949	56989056	MSTRG.6975.1	DENND2D
scaffold_2	42972386	42987051	MSTRG.6788.2	DENND4B
scaffold_2	93543894	93561902	DEP1A_g7214.t1	DEPDC1
scaffold_2	32862127	32883200	DHB7_g6541.t1	HSD17B7
scaffold_2	26625227	26651696	DHI1_g6501.t1	HSD11B1
scaffold_2	17834371	17890419	DHX9_g6426.t1	DHX9
scaffold_2	17834323	17890419	DHX9_g6426.t3	DHX9
scaffold_2	79554030	79572080	DIAC_g7154.t1	CTBS
scaffold_2	71956475	72064058	DIK1A_g7101.t1	DIPK1A
scaffold_2	93900003	93901326	DIRA3_g7217.t1	DIRAS3
scaffold_2	94817637	94890979	DNAI4_g7225.t1	DNAI4
scaffold_2	85271469	85280200	DNJB4_g7175.t1	DNAJB4
scaffold_2	65099920	65133577	DPH5_g7055.t1	DPH5
scaffold_2	65099582	65133577	MSTRG.7046.2	DPH5
scaffold_2	65099595	65133577	MSTRG.7046.3	DPH5
scaffold_2	67729176	68561576	DPYD_g7078.t1	DPYD
scaffold_2	24621582	24667982	DTL_g6479.t1	DTL
scaffold_2	33920634	33925950	DUS12_g6550.t1	DUSP12
scaffold_2	36619412	36620755	DUS23_g6604.t1	DUSP23
scaffold_2	1754368	1796580	DUSTY_g6266.t1	DSTYK
scaffold_2	49621149	49621833	DYN2_g6914.t1	DNM2
scaffold_2	8122981	8654069	DYN3_g6353.t1	DNM3
scaffold_2	2960990	2970249	DYRK3_g6290.t1	DYRK3
scaffold_2	46096492	46101924	ATL4_g6842.t2	ECM1
scaffold_2	46096419	46101924	MSTRG.6843.2	ECM1
scaffold_2	46096429	46101924	MSTRG.6843.3	ECM1
scaffold_2	19526013	19595468	EDEM3_g6441.t1	EDEM3
scaffold_2	97675419	97714007	EFCB7_g7245.t1	EFCAB7
scaffold_2	42023632	42029276	EFNA1_g6720.t1	EFNA1
scaffold_2	42060769	42068303	EFNA3_g6721.t1	EFNA3
scaffold_2	8065007	8078358	EFNMT_g6352.t1	EFNMT
scaffold_2	2926768	2955167	EIF2D_g6289.t1	EIF2D
scaffold_2	830864	849259	EKI2_g6252.t1	ETNK2
scaffold_2	45998788	46005411	ENSA_g6840.t1	ENSA
scaffold_2	88181940	88253255	ERIC3_g7194.t1	ERIC3
scaffold_2	58215288	58257202	ES8L3_g7011.t1	EPS8L3
scaffold_2	828647	849259	MSTRG.6370.1	ETNK2
scaffold_2	40453040	40463744	MSTRG.6709.2	ETV3
scaffold_2	72107828	72334454	MSTRG.7109.1	EVI5
scaffold_2	72107874	72334454	MSTRG.7109.2	EVI5

scaffold_2	72108038	72330780	EVI5L_g7103.t1	EVI5L
scaffold_2	41948014	41953311	F189B_g6711.t1	F189B
scaffold_2	3359320	3374779	F262_g6300.t1	PFKFB2
scaffold_2	3359248	3381841	F262_g6300.t2	PFKFB2
scaffold_2	6155773	6179547	MSTRG.6438.1	F5
scaffold_2	24170297	24172039	FA71A_g6473.t2	FA71A
scaffold_2	2569583	2580320	FA72A_g6285.t1	FA72A
scaffold_2	42139134	42144608	FAD1_g6725.t1	FAD1
scaffold_2	59234891	59297557	F102B_g7040.t1	EEIG2
scaffold_2	59230633	59238768	MSTRG.7025.1	EEIG2
scaffold_2	59230641	59297557	MSTRG.7025.2	EEIG2
scaffold_2	59230708	59297557	MSTRG.7025.4	EEIG2
scaffold_2	45692666	45702045	MSTRG.6825.3	MINDY1
scaffold_2	45692783	45702045	MSTRG.6825.4	MINDY1
scaffold_2	72054378	72054609	MSTRG.7106.1	FAT1
scaffold_2	41887337	41897200	MSTRG.6742.1	FDPS
scaffold_2	41887390	41897200	MSTRG.6742.2	FDPS
scaffold_2	44629922	44630344	MYH16_g6794.t1	FLG
scaffold_2	34361965	34365237	FLTOP_g6555.t1	FLTOP
scaffold_2	23930525	23969273	FLVC1_g6467.t1	FLVC1
scaffold_2	7768894	7786402	FMO4_g6348.t2	FMO4
scaffold_2	48546068	48570804	FMO5_g6903.t1	FMO5
scaffold_2	48593123	48605342	FMO5_g6903.t2	FMO5
scaffold_2	187261	192738	FMOD_g6244.t1	FMOD
scaffold_2	41887426	41896216	FPPS_g6705.t1	FDPS
scaffold_2	51748709	51815941	FPRP_g6929.t1	PTGFRN
scaffold_2	62165637	62165852	FRIL_g7049.t1	FTL
scaffold_2	66158245	66187747	MSTRG.7060.3	FRRS1
scaffold_2	85316424	85347863	FUBP1_g7176.t1	FUBP1
scaffold_2	26674913	26675265	G0S2_g6502.t1	G0S2
scaffold_2	94188086	94190624	GA45A_g7219.t1	GA45A
scaffold_2	79613792	79618665	GBG5_g7156.t1	GBG5
scaffold_2	34531460	34539202	MSTRG.6662.2	GBGT1
scaffold_2	75331250	75333176	GBP1_g7131.t1	GBP1
scaffold_2	75268594	75277305	GBP5_g7130.t1	GBP5
scaffold_2	74989203	75000379	GBP6_g7128.t1	GBP6
scaffold_2	75137743	75159920	GBP6_g7129.t1	GBP6
scaffold_2	50891080	50947380	GDAP2_g6921.t1	GDAP2
scaffold_2	50881550	50955886	MSTRG.6919.1	GDAP2
scaffold_2	66008636	66076815	GDE_g7070.t1	AGL
scaffold_2	117660	119358	GEMI5_g6242.t1	GEMI5
scaffold_2	29556358	29556584	MSTRG.6626.1	GGT7
scaffold_2	72499734	72537200	GLMN_g7106.t1	GLMN
scaffold_2	41167077	41169729	TCPG_g6683.t2	GLMP
scaffold_2	17431265	17438580	GLNA_g6419.t1	GLUL

scaffold_2	45939604	45983494	GLP3L_g6839.t1	GLP3L
scaffold_2	58430755	58439003	GNAT2_g7016.t1	GNAT2
scaffold_2	47614945	47619228	GNRR2_g6883.t1	GNRR2
scaffold_2	6007792	6031050	GO45_g6329.t1	BLZF1
scaffold_2	45937804	45983494	MSTRG.6830.2	GOLPH3L
scaffold_2	41527352	41599740	GON4L_g6700.t1	GON4L
scaffold_2	41525874	41599740	MSTRG.6737.1	GON4L
scaffold_2	7051270	7072704	GORAB_g6342.t1	GORAB
scaffold_2	4807331	4827664	GP161_g6316.t1	GPR161
scaffold_2	3902325	3940600	GPA33_g6308.t1	GPA33
scaffold_2	47830986	47872827	GPHR_g6893.t1	GPR89A
scaffold_2	29372176	29372399	MSTRG.6619.1	GPR26
scaffold_2	10441213	10442298	GPR52_g6373.t1	GPR52
scaffold_2	58491775	58493130	GPR61_g7018.t1	GPR61
scaffold_2	58493266	58493570	MSTRG.7003.1	GPR61
scaffold_2	65489168	65489390	MSTRG.7048.1	GPR88
scaffold_2	58970761	59005310	GPSM2_g7034.t1	GPSM2
scaffold_2	40918345	40922334	GPTC4_g6676.t1	GPATCH4
scaffold_2	71107848	71121793	GSH0_g7093.t1	GCLM
scaffold_2	58287584	58302719	MSTRG.6997.3	GSTM1
scaffold_2	58287584	58292289	GSTM2_g7013.t1	GSTM2
scaffold_2	58348075	58350401	GSTM2_g7013.t2	GSTM2
scaffold_2	58259883	58262796	GSTM3_g7012.t1	GSTM3
scaffold_2	58313118	58362621	MSTRG.6997.10	GSTM4
scaffold_2	58352556	58371322	GSTM5_g7014.t1	GSTM5
scaffold_2	58298455	58350401	MSTRG.6997.6	GSTM5
scaffold_2	18843417	18954793	GT252_g6436.t1	GT252
scaffold_2	46690275	46690769	H2A2A_g6865.t1	H2A2A
scaffold_2	46699706	46700098	H2A2A_g6868.t1	H2A2A
scaffold_2	46647334	46647726	H2A2B_g6860.t1	H2A2B
scaffold_2	46647888	46648277	H2A2C_g6861.t1	H2A2C
scaffold_2	46648607	46648987	H2B2E_g6862.t1	H2BC21
scaffold_2	46691006	46691386	H2B2E_g6866.t1	H2BC21
scaffold_2	46698988	46699368	H2B2E_g6867.t1	H2BC21
scaffold_2	46726816	46734651	H2B2F_g6872.t1	H2BC18
scaffold_2	46688723	46689133	H32_g6864.t1	H32
scaffold_2	46701238	46701648	H32_g6869.t1	H32
scaffold_2	46725162	46725572	H32_g6871.t1	H32
scaffold_2	46673584	46674042	H4_g6863.t1	H4C1
scaffold_2	46673731	46674042	H4_g6863.t2	H4C1
scaffold_2	46716045	46716503	H4_g6870.t2	H4C1
scaffold_2	42731606	42734354	HAX1_g6739.t1	HAX1
scaffold_2	41921413	41930420	HCN3_g6707.t1	HCN3
scaffold_2	40789133	40797383	HDGF_g6669.t1	HDGF
scaffold_2	59214023	59224043	HENMT_g7039.t1	HENMT

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scaffold_2	73247849	73265110	MSTRG.7119.3	HFM1
scaffold_2	5656296	5727013	HIP1_g6326.t1	HIP1
scaffold_2	54390177	54425499	HIPK1_g6956.t1	HIPK1
scaffold_2	54452887	54457907	HIPK1_g6956.t2	HIPK1
scaffold_2	54385848	54435891	MSTRG.6943.3	HIPK1
scaffold_2	20380794	20845210	HMCN1_g6448.t1	HMCN1
scaffold_2	16257078	16277856	HMR1_g6411.t1	HMR1
scaffold_2	77425028	77610799	HS2ST_g7137.t1	HS2ST
scaffold_2	49662682	49671073	MSTRG.6903.2	HSD3B2
scaffold_2	94410177	94472027	I12R2_g7221.t1	IL12RB2
scaffold_2	40811841	40816247	I20L2_g6672.t1	I20L2
scaffold_2	58502565	58522323	IBTK_g7019.t1	IBTK
scaffold_2	16304679	16304882	IER5_g6412.t1	IER5
scaffold_2	37259757	37271119	IF16_g6617.t1	IF16
scaffold_2	84744240	84758779	IF44L_g7172.t1	IFI44L
scaffold_2	15220174	15221066	IFG15_g6400.t1	IFG15
scaffold_2	37406024	37418749	IFI3_g6618.t2	IFI16
scaffold_2	84715086	84735055	IFI44_g7171.t1	IFI44
scaffold_2	4831993	4833144	FV1_g6317.t1	IFT46
scaffold_2	73606952	73630459	IGJ_g7117.t1	JCHAIN
scaffold_2	51706639	51736756	IGSF2_g6928.t1	IGSF2
scaffold_2	52010530	52100377	IGSF3_g6932.t1	IGSF3
scaffold_2	36323849	36329802	IGSF8_g6594.t1	IGSF8
scaffold_2	2823093	2851137	IKKE_g6287.t1	IKBKE
scaffold_2	3078804	3082536	IL10_g6292.t2	IL10
scaffold_2	42592968	42642997	IL6RA_g6737.t1	IL6RA
scaffold_2	3630282	3687071	ILDR2_g6306.t1	ILDR2
scaffold_2	43176667	43182821	ILF2_g6754.t1	ILF2
scaffold_2	98863646	99109964	INADL_g7254.t1	PATJ
scaffold_2	99110151	99157369	INADL_g7256.t1	PATJ
scaffold_2	94908552	94910954	INSL5_g7226.t1	INSL5
scaffold_2	40701731	40717316	INSRR_g6666.t1	INSRR
scaffold_2	43102578	43141693	INT3_g6752.t1	INTS3
scaffold_2	43102578	43141001	INT3_g6752.t2	INTS3
scaffold_2	24668300	24758536	INT7_g6480.t1	INTS7
scaffold_2	24668300	24758536	INT7_g6480.t2	INTS7
scaffold_2	40942316	40977011	IQGA3_g6679.t1	IQGAP3
scaffold_2	26567131	26578482	IRF6_g6496.t1	IRF6
scaffold_2	40810920	40816907	MSTRG.6717.3	ISG20L2
scaffold_2	9954988	9957728	MSTRG.6476.2	ITGAX
scaffold_2	97714318	97785104	CENPR_g7246.t1	ITGB3BP
scaffold_2	20022277	20042351	MSTRG.6551.3	IVNS1ABP
scaffold_2	96500642	96549183	JAK1_g7238.t1	JAK1
scaffold_2	34618405	34637407	JAM1_g6576.t1	F11R

scaffold_2	34687367	34712735	JAM1_g6576.t2	F11R
scaffold_2	42946277	42948314	JTB_g6746.t1	JTB
scaffold_2	11023298	11023594	K0040_g6378.t1	K0040
scaffold_2	72594910	72672678	K1107_g7109.t1	K1107
scaffold_2	6667558	6667968	K1109_g6340.t1	BLTP1
scaffold_2	16159834	16195788	K1614_g6409.t1	KIAA1614
scaffold_2	16158497	16195788	K1614_g6409.t2	KIAA1614
scaffold_2	96218097	96281308	KAD4_g7236.t1	AK4
scaffold_2	79849818	79970303	KAPCB_g7163.t1	KAPCB
scaffold_2	26739003	26756622	KCC1G_g6504.t1	CAMK1G
scaffold_2	36373858	36374997	KCJ10_g6596.t1	KCJ10
scaffold_2	57470627	57472126	KCNA2_g6997.t1	KCNA2
scaffold_2	57814539	57831817	KCNC4_g7004.t1	KCNC4
scaffold_2	21846701	21847027	KCNK2_g6456.t1	KCNK2
scaffold_2	21937585	21971472	MSTRG.6564.1	KCNK2
scaffold_2	42243524	42390512	KCNN3_g6731.t1	KCNN3
scaffold_2	41471302	41486493	KHDC4_g6697.t1	KHDC4
scaffold_2	6503118	6667533	KIFA3_g6339.t1	KIFA3
scaffold_2	58851616	58854441	KISHB_g7031.t1	TMEM167B
scaffold_2	34556510	34558200	KLDC9_g6571.t1	KLDC9
scaffold_2	23645269	23692952	KS6C1_g6462.t1	RPS6KC1
scaffold_2	4885018	4885242	RL32_g6318.t1	LACC1
scaffold_2	18019377	18143534	LAMC1_g6428.t1	LAMC1
scaffold_2	18179343	18230232	LAMC2_g6429.t1	LAMC2
scaffold_2	1935788	1959343	LEMD1_g6270.t1	LEMD1
scaffold_2	95885509	95939325	LEPR_g7232.t1	LEPR
scaffold_2	52106902	52137740	LFA3_g6933.t1	CD58
scaffold_2	45035220	45037001	LIGO4_g6806.t2	LIGO4
scaffold_2	47589735	47609345	LIX1L_g6881.t1	LIX1L
scaffold_2	41241278	41250099	LMNA_g6689.t2	LMNA
scaffold_2	77189805	77211480	LMO4_g7136.t1	LMO4
scaffold_2	72682190	72683728	PCT2B_g7110.t2	LPCAT2
scaffold_2	3604183	3623962	LRC14_g6305.t1	LRC14
scaffold_2	92183931	92233388	LRC40_g7211.t1	LRC40
scaffold_2	74500698	74503276	LRC8D_g7123.t1	LRRC8D
scaffold_2	57142300	57156802	LRIF1_g6994.t1	LRIF1
scaffold_2	55216699	55273253	LRIG2_g6968.t1	LRIG2
scaffold_2	55209373	55273253	MSTRG.6954.2	LRIG2
scaffold_2	92323430	92765654	LRRC7_g7213.t1	LRRC7
scaffold_2	1257900	1260250	LRRN2_g6259.t1	LRRN2
scaffold_2	57659908	57664050	LTOR5_g7000.t1	LTOR5
scaffold_2	35741352	35756511	LY9_g6579.t2	LY9
scaffold_2	6316977	6353252	LYAM2_g6334.t1	LYAM2
scaffold_2	6238259	6271750	LYAM3_g6333.t1	SELP
scaffold_2	44450404	44450697	LYOX_g6791.t1	LYOX

scaffold_2	45579416	45585016	LYSM1_g6825.t1	LYSMD1
scaffold_2	51260173	51431461	MA1A2_g6923.t1	MAN1A2
scaffold_2	3701493	3730970	MAEL_g6307.t1	MAEL
scaffold_2	54781985	54868689	MAGI3_g6966.t1	MAGI3
scaffold_2	54948259	55013097	MAGI3_g6967.t1	MAGI3
scaffold_2	54777135	54804341	MSTRG.6953.2	MAGI3
scaffold_2	3002610	3049090	MSTRG.6402.2	MAPKAPK2
scaffold_2	46032771	46034375	MCL1_g6841.t1	MCL1
scaffold_2	46032462	46034375	MCL1_g6841.t2	MCL1
scaffold_2	29052566	29087666	MCP_g6513.t1	MCP
scaffold_2	1174385	1194234	MDM4_g6258.t1	MDM4
scaffold_2	41012421	41027400	MEF2D_g6680.t1	MEF2D
scaffold_2	56737615	56746181	MEP50_g6984.t1	MEP50
scaffold_2	6399800	6400921	MET18_g6336.t1	MMS19
scaffold_2	41333814	41339014	MEX3A_g6690.t1	MEX3A
scaffold_2	65875026	65912758	MF14A_g7068.t1	MF14A
scaffold_2	2092609	2120031	MFD4A_g6272.t1	MFSD4A
scaffold_2	2092609	2120595	MFD4A_g6272.t2	MFSD4A
scaffold_2	94736152	94786262	MIER1_g7224.t1	MIER1
scaffold_2	94732903	94790590	MSTRG.7247.3	MIER1
scaffold_2	85410562	85491382	MIGA1_g7178.t2	MIGA1
scaffold_2	45696042	45702045	MINY1_g6833.t1	MINDY1
scaffold_2	37485604	37492758	MNDA_g6620.t1	MNDA
scaffold_2	57675824	57719143	MOT5_g7001.t2	MOT5
scaffold_2	55631113	55654640	MSTRG.6963.2	MOV10
scaffold_2	87185334	87272188	MSH4_g7188.t1	MSH4
scaffold_2	87274429	87283800	MSH4_g7188.t2	MSH4
scaffold_2	41600011	41604077	MSTO1_g6701.t1	MSTO1
scaffold_2	71795609	71869534	MTF2_g7100.t1	MTF2
scaffold_2	46598534	46605951	MTMRB_g6856.t1	MTMRB
scaffold_2	41972151	41976609	MTX1_g6712.t1	MTX1
scaffold_2	7968289	7978910	MYOC_g6350.t2	MYOC
scaffold_2	48792830	48874565	MYOME_g6905.t1	MYOME
scaffold_2	48881190	48961371	MYOME_g6906.t1	MYOME
scaffold_2	91274647	91301365	NALP7_g7202.t1	NALP7
scaffold_2	31138407	31183206	NB5R4_g6533.t1	NB5R4
scaffold_2	48668224	48695696	NBPF4_g6904.t1	NBPF4
scaffold_2	54528897	54534335	NBPF5_g6959.t1	NBPF5
scaffold_2	54535195	54552181	NBPF5_g6959.t2	NBPF5
scaffold_2	71556738	71570584	NC2B_g7097.t1	DR1
scaffold_2	18520324	18550542	NCF2_g6432.t1	NCF2
scaffold_2	34462785	34465718	NDUS2_g6563.t1	NDUFS2
scaffold_2	34466539	34474407	NDUS2_g6563.t2	NDUFS2
scaffold_2	91061950	91062888	MSTRG.7215.1	NEGR1
scaffold_2	90240286	91060812	NEGR1_g7201.t1	NEGR1

scaffold_2	24964965	24976765	NEK2_g6482.t1	NEK2
scaffold_2	24358272	24369956	NENF_g6475.t1	NENF
scaffold_2	85352897	85383653	NEXN_g7177.t1	NEXN
scaffold_2	1447101	1622009	NFASC_g6261.t1	NFASC
scaffold_2	99384515	99729540	NFIA_g7259.t1	NFIA
scaffold_2	13771725	14032290	NGAP_g6387.t1	RASAL2
scaffold_2	47799378	47829533	NHRF3_g6892.t1	NHRF3
scaffold_2	19627681	19776267	NIBA1_g6442.t1	NIBAN1
scaffold_2	36098812	36112594	NICA_g6587.t1	NICA
scaffold_2	34541953	34544549	NIT1_g6569.t2	NIT1
scaffold_2	40923263	40926036	NNRE_g6677.t1	NAXE
scaffold_2	58637753	58670729	NOTC1_g7026.t1	NOTC1
scaffold_2	2248768	2249104	MSTRG.6388.1	NOTCH1
scaffold_2	98346233	98369392	AHNK_g7250.t1	AHNK_g7250.t1
scaffold_2	24445580	24445816	AKAP8_g6478.t1	AKAP8_g6478.t1
scaffold_2	46297461	46301199	APH1A_g6850.t1	APH1A_g6850.t1
scaffold_2	71266789	71400126	BCAR3_g7095.t1	BCAR3_g7095.t1
scaffold_2	156391	158164	BTG2_g6243.t1	BTG2_g6243.t1
scaffold_2	20091295	20327492	CD34_g6447.t1	CD34_g6447.t1
scaffold_2	28701127	28701642	CELR2_g6510.t1	CELR2_g6510.t1
scaffold_2	4403243	4467448	CPZIP_g6313.t1	CPZIP_g6313.t1
scaffold_2	33581004	33581333	CTP5B_g6547.t1	CTP5B_g6547.t1
scaffold_2	70214867	70215184	EFG_g7085.t1	EFG_g7085.t1
scaffold_2	40485710	40490178	ETV3L_g6661.t1	ETV3L_g6661.t1
scaffold_2	24170297	24171217	FA71A_g6473.t1	FA71A_g6473.t1
scaffold_2	30386758	30392794	MGST3_g6528.t1	MGST3_g6528.t1
scaffold_2	216892	223312	MSTRG.6353.1	MSTRG.6353.1
scaffold_2	218464	223312	MSTRG.6353.2	MSTRG.6353.2
scaffold_2	320668	332237	MSTRG.6355.1	MSTRG.6355.1
scaffold_2	1220901	1221113	MSTRG.6373.1	MSTRG.6373.1
scaffold_2	2906785	2906998	MSTRG.6397.1	MSTRG.6397.1
scaffold_2	4025701	4234342	MSTRG.6414.3	MSTRG.6414.3
scaffold_2	4481683	4513333	MSTRG.6423.1	MSTRG.6423.1
scaffold_2	4669297	4799737	MSTRG.6425.2	MSTRG.6425.2
scaffold_2	6482363	6482563	MSTRG.6448.1	MSTRG.6448.1
scaffold_2	8322811	8323012	MSTRG.6457.1	MSTRG.6457.1
scaffold_2	9579143	9579369	MSTRG.6460.1	MSTRG.6460.1
scaffold_2	9746067	9746507	MSTRG.6464.1	MSTRG.6464.1
scaffold_2	9780065	9780334	MSTRG.6467.2	MSTRG.6467.2
scaffold_2	9748691	9748896	MSTRG.6469.1	MSTRG.6469.1
scaffold_2	10187843	10282054	MSTRG.6480.2	MSTRG.6480.2
scaffold_2	14239525	14414551	MSTRG.6504.2	MSTRG.6504.2
scaffold_2	14487340	14537663	MSTRG.6506.3	MSTRG.6506.3
scaffold_2	15529387	15529612	MSTRG.6516.1	MSTRG.6516.1
scaffold_2	19377253	19455045	MSTRG.6540.3	MSTRG.6540.3

scaffold_2	19692313	19692513	MSTRG.6546.1	MSTRG.6546.1
scaffold_2	21845711	21846038	MSTRG.6558.1	MSTRG.6558.1
scaffold_2	21831714	21831916	MSTRG.6561.1	MSTRG.6561.1
scaffold_2	24584938	24667982	MSTRG.6579.2	MSTRG.6579.2
scaffold_2	29052464	29297382	MSTRG.6624.2	MSTRG.6624.2
scaffold_2	30328320	30340571	MSTRG.6630.2	MSTRG.6630.2
scaffold_2	30386758	30408862	MSTRG.6635.1	MSTRG.6635.1
scaffold_2	38964310	38964517	MSTRG.6698.1	MSTRG.6698.1
scaffold_2	42639975	42640192	MSTRG.6771.1	MSTRG.6771.1
scaffold_2	46045167	46045385	MSTRG.6834.1	MSTRG.6834.1
scaffold_2	46039955	46040399	MSTRG.6838.1	MSTRG.6838.1
scaffold_2	46043162	46043445	MSTRG.6840.1	MSTRG.6840.1
scaffold_2	46297461	46301199	MSTRG.6847.2	MSTRG.6847.2
scaffold_2	47300605	47303758	MSTRG.6875.1	MSTRG.6875.1
scaffold_2	47301449	47303758	MSTRG.6875.2	MSTRG.6875.2
scaffold_2	48204422	48204647	MSTRG.6893.1	MSTRG.6893.1
scaffold_2	49007882	49278995	MSTRG.6901.4	MSTRG.6901.4
scaffold_2	49940294	49940661	MSTRG.6912.1	MSTRG.6912.1
scaffold_2	51728350	51728554	MSTRG.6926.1	MSTRG.6926.1
scaffold_2	58393448	58393879	MSTRG.6995.1	MSTRG.6995.1
scaffold_2	58732486	58759229	MSTRG.7013.1	MSTRG.7013.1
scaffold_2	58732486	58759229	MSTRG.7013.2	MSTRG.7013.2
scaffold_2	59173666	59188182	MSTRG.7022.2	MSTRG.7022.2
scaffold_2	59173666	59188182	MSTRG.7022.3	MSTRG.7022.3
scaffold_2	59173682	59188182	MSTRG.7022.4	MSTRG.7022.4
scaffold_2	59294185	59294390	MSTRG.7027.1	MSTRG.7027.1
scaffold_2	59965564	59965765	MSTRG.7031.1	MSTRG.7031.1
scaffold_2	60538187	60538396	MSTRG.7034.1	MSTRG.7034.1
scaffold_2	70116528	70124048	MSTRG.7086.1	MSTRG.7086.1
scaffold_2	72735004	72757645	MSTRG.7113.2	MSTRG.7113.2
scaffold_2	74699412	74776534	MSTRG.7127.1	MSTRG.7127.1
scaffold_2	74936056	75081442	MSTRG.7135.1	MSTRG.7135.1
scaffold_2	75065030	75081442	MSTRG.7135.3	MSTRG.7135.3
scaffold_2	75065193	75087649	MSTRG.7135.4	MSTRG.7135.4
scaffold_2	75106103	75118183	MSTRG.7138.1	MSTRG.7138.1
scaffold_2	80159313	80159527	MSTRG.7178.1	MSTRG.7178.1
scaffold_2	83733784	83734007	MSTRG.7179.1	MSTRG.7179.1
scaffold_2	82127117	82127339	MSTRG.7184.1	MSTRG.7184.1
scaffold_2	85511578	85568911	MSTRG.7194.1	MSTRG.7194.1
scaffold_2	85511602	85568911	MSTRG.7194.4	MSTRG.7194.4
scaffold_2	85580830	85701936	MSTRG.7196.1	MSTRG.7196.1
scaffold_2	85580831	85701936	MSTRG.7196.2	MSTRG.7196.2
scaffold_2	85581210	85701936	MSTRG.7196.4	MSTRG.7196.4
scaffold_2	85581225	85701936	MSTRG.7196.5	MSTRG.7196.5
scaffold_2	87329592	87333617	MSTRG.7207.1	MSTRG.7207.1

scaffold_2	95916214	95916425	MSTRG.7244.1	MSTRG.7244.1
scaffold_2	94671365	94738909	MSTRG.7246.1	MSTRG.7246.1
scaffold_2	96404948	96405158	MSTRG.7251.1	MSTRG.7251.1
scaffold_2	96212332	96281912	MSTRG.7253.1	MSTRG.7253.1
scaffold_2	96212332	96280968	MSTRG.7253.2	MSTRG.7253.2
scaffold_2	99518460	99518664	MSTRG.7279.1	MSTRG.7279.1
scaffold_2	36383488	36384759	PIGM_g6597.t1	PIGM_g6597.t1
scaffold_2	19470823	19471095	PLK1_g6440.t1	PLK1_g6440.t1
scaffold_2	2304844	2363392	S26A9_g6279.t1	S26A9_g6279.t1
scaffold_2	34454259	34456977	TM40L_g6561.t1	TM40L_g6561.t1
scaffold_2	90179868	90223669	VRK2_g7200.t1	VRK2_g7200.t1
scaffold_2	17774896	17810237	NPL_g6425.t1	NPL
scaffold_2	53622590	53634274	NR1H4_g6945.t1	NR1H4
scaffold_2	34449259	34453541	NR1I3_g6560.t1	NR1I3
scaffold_2	20023426	20036382	NS1BP_g6446.t1	IVNS1ABP
scaffold_2	24042006	24078117	NSL1_g6471.t1	NSL1
scaffold_2	24041952	24078117	NSL1_g6471.t2	NSL1
scaffold_2	6738228	6754759	NTM1B_g6341.t1	NTMT2
scaffold_2	60117706	60441836	MSTRG.7033.1	NTNG1
scaffold_2	60170689	60443180	MSTRG.7033.3	NTNG1
scaffold_2	60118764	60435126	NTNG1_g7045.t1	NTNG1
scaffold_2	1867460	1884119	NUAK2_g6268.t1	NUAK2
scaffold_2	2212074	2239705	NUCKS_g6275.t1	NUCKS
scaffold_2	2203411	2239705	MSTRG.6390.1	NUCKS1
scaffold_2	47674734	47675127	MSTRG.6884.4	NUDT17
scaffold_2	32419957	32439811	NUF2_g6536.t1	NUF2
scaffold_2	38042325	38043278	O10R2_g6641.t1	OR10R2
scaffold_2	96038043	96052910	OBRG_g7233.t1	LEPROT
scaffold_2	65728452	65735981	OBSCN_g7063.t1	OBSCN
scaffold_2	65739544	65779253	ODB2_g7064.t2	ODB2
scaffold_2	78012287	78044516	ODF2L_g7141.t1	ODF2L
scaffold_2	21030227	21064150	ODR4_g6451.t1	ODR4
scaffold_2	54381846	54384093	OLFL3_g6955.t1	OLFL3
scaffold_2	33646043	33682848	MSTRG.6646.1	OLFML2B
scaffold_2	33646458	33682848	OLM2B_g6548.t1	OLFML2B
scaffold_2	339688	345786	OPT_g6246.t1	OPT
scaffold_2	98999615	98999872	ORAI2_g7255.t1	ORAI2
scaffold_2	41211619	41215117	OSTCN_g6687.t1	OSTCN
scaffold_2	46540297	46597447	MSTRG.6857.2	OTUD7B
scaffold_2	56756831	56770214	OVGP1_g6985.t1	OVGP1
scaffold_2	42828332	42933031	P210L_g6743.t1	P210L
scaffold_2	1083902	1124658	P3C2B_g6257.t1	PIK3C2B
scaffold_2	42990779	43072576	P66B_g6750.t1	P66B
scaffold_2	21450829	21571747	PA24A_g6455.t1	PA24A
scaffold_2	24377713	24404345	PACC1_g6476.t1	PACC1

scaffold_2	6444099	6475931	PACE1_g6338.t1	PACE1
scaffold_2	94383269	94399003	PAIRB_g7220.t1	PAIRB
scaffold_2	66191924	66240928	PALMD_g7072.t1	PALMD
scaffold_2	12211732	12244743	PAPP2_g6382.t1	PAPPA2
scaffold_2	12483507	12485795	PAPP2_g6383.t1	PAPPA2
scaffold_2	41207895	41211603	PAQR6_g6686.t1	PAQR6
scaffold_2	95855107	95856156	PBIP1_g7231.t1	PBIP1
scaffold_2	31197638	31453895	PBX1_g6534.t2	PBX1
scaffold_2	4901474	4901878	PCLO_g6319.t1	PCLO
scaffold_2	43756056	43760086	PCSK9_g6774.t1	PCSK9
scaffold_2	91344567	91379943	PE2R3_g7204.t1	PE2R3
scaffold_2	40650053	40660086	PEAR1_g6664.t1	PEAR1
scaffold_2	30534389	30538980	PEX1_g6530.t1	PEX1
scaffold_2	36157662	36163417	MSTRG.6686.1	PEX19
scaffold_2	36157673	36163417	PEX19_g6589.t1	PEX19
scaffold_2	34544710	34556062	PFD2_g6570.t1	PFDN2
scaffold_2	72573525	72573938	PFF1_g7108.t1	PFF1
scaffold_2	40869739	40882290	PGCB_g6674.t1	PGCB
scaffold_2	21272903	21278144	PGH2_g6454.t1	PTGS2
scaffold_2	97596467	97655144	PGM1_g7244.t1	PGM1
scaffold_2	43639769	43656282	PGRP4_g6771.t1	PGRP4
scaffold_2	26599615	26599869	PHF12_g6500.t1	PHF12
scaffold_2	21081229	21087754	PHOS_g6452.t1	PHOS
scaffold_2	54722967	54773610	PHTF1_g6963.t1	PHTF1
scaffold_2	45441900	45469548	MSTRG.6813.1	PI4KB
scaffold_2	47664019	47672428	PIAS3_g6887.t1	PIAS3
scaffold_2	8676030	8677139	PIGC_g6354.t1	PIGC
scaffold_2	3225772	3244353	PIGR_g6297.t1	PIGR
scaffold_2	75118635	75159920	MSTRG.7139.1	PIGW
scaffold_2	907372	1043571	PKHA6_g6255.t1	PLEKHA6
scaffold_2	46417770	46426079	PKHO1_g6853.t1	PKHO1
scaffold_2	75892523	76020155	PKN2_g7134.t1	PKN2
scaffold_2	74612541	74626896	PLCZ1_g7124.t1	PLCZ1
scaffold_2	16435360	16493400	PLOD3_g6414.t1	PLOD3
scaffold_2	66752933	66862206	PLPR5_g7075.t2	PLPR5
scaffold_2	2304795	2314115	MSTRG.6392.8	PM20D1
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scaffold_2	4058369	4234342	PO2F1_g6310.t1	POU2F1
scaffold_2	14904311	14923189	PODO_g6396.t1	PODO
scaffold_2	3555207	3570002	MSTRG.6409.1	POGK
scaffold_2	45315548	45359867	MSTRG.6810.3	POGZ
scaffold_2	47572370	47586377	MSTRG.6877.2	POLR3GL
scaffold_2	48086181	48104730	PPA6_g6897.t1	ACP6
scaffold_2	55616508	55621829	PPM1J_g6971.t1	PPM1J
scaffold_2	55628154	55631247	PPM1J_g6971.t2	PPM1J

scaffold_2	34499209	34502816	PPOX_g6566.t1	PPOX
scaffold_2	24437466	24473252	MSTRG.6577.2	PPP2R5A
scaffold_2	1068567	1073943	PR15B_g6256.t1	PR15B
scaffold_2	1068567	1074402	PR15B_g6256.t2	PR15B
scaffold_2	59179799	59188182	PR38B_g7038.t1	PRPF38B
scaffold_2	44662306	44664549	PRAX_g6796.t2	PRX
scaffold_2	7881863	7950837	PRC2C_g6349.t1	PRRC2C
scaffold_2	40753642	40775493	PRCC_g6668.t1	PRCC
scaffold_2	328406	332237	PRELP_g6245.t1	PRELP
scaffold_2	20947834	20964113	PRG4_g6449.t1	PRG4
scaffold_2	65666216	65680373	PROC_g7061.t1	PROC
scaffold_2	22907499	22945759	PROX1_g6461.t1	PROX1
scaffold_2	46240941	46245977	MSTRG.6846.5	PRPF3
scaffold_2	7859121	7950837	MSTRG.6454.1	PRRC2C
scaffold_2	45692665	45702045	MSTRG.6825.2	PRUNE1
scaffold_2	58583350	58605918	PSA5_g7024.t1	PSA5
scaffold_2	45361171	45363585	PSB4_g6816.t1	PSB4
scaffold_2	45502891	45511721	PSMD4_g6820.t1	PSMD4
scaffold_2	58673398	58691573	PSRC1_g7027.t1	PSRC1
scaffold_2	58697551	58700590	PSRC1_g7027.t2	PSRC1
scaffold_2	68732948	68807705	MSTRG.7085.2	PTBP2
scaffold_2	68734782	68807705	MSTRG.7085.4	PTBP2
scaffold_2	68737717	68807705	PTBP2_g7080.t1	PTBP2
scaffold_2	84831071	84832155	MSTRG.7181.1	PTGFR
scaffold_2	84832444	84833452	MSTRG.7182.1	PTGFR
scaffold_2	54620913	54666995	PTN22_g6961.t1	PTN22
scaffold_2	54620913	54666995	PTN22_g6961.t2	PTN22
scaffold_2	47619901	47624681	PX11B_g6884.t1	PEX11B
scaffold_2	42161931	42164434	PYGO2_g6728.t1	PYGO2
scaffold_2	15489573	15527079	QSOX1_g6405.t1	QSOX1
scaffold_2	42938247	42942206	RAB13_g6745.t1	RAB13
scaffold_2	2253017	2257071	RAB7L_g6276.t1	RAB7L
scaffold_2	10188126	10282054	MSTRG.6480.3	RABGAP1L
scaffold_2	10188126	10854478	MSTRG.6480.4	RABGAP1L
scaffold_2	10188157	10282054	MSTRG.6480.5	RABGAP1L
scaffold_2	87274001	87282608	MSTRG.7204.4	RABGGTB
scaffold_2	56505775	56521910	RAP1A_g6980.t1	RAP1A
scaffold_2	2861535	2926688	RASF5_g6288.t1	RASF5
scaffold_2	96551348	96655560	RAVR2_g7239.t1	RAVER2
scaffold_2	1686176	1719934	RBBP5_g6265.t1	RBBP5
scaffold_2	10737170	10747244	RBG10_g6374.t2	RABGAP1L
scaffold_2	57711885	57719143	RBM15_g7002.t1	RBM15
scaffold_2	47613004	47614977	RBM8A_g6882.t1	RBM8A
scaffold_2	10008427	10093395	MSTRG.6478.1	RC3H1
scaffold_2	10017060	10045171	MSTRG.6478.3	RC3H1

scaffold_2	10017144	10058385	RC3H1_g6372.t1	RC3H1
scaffold_2	25273080	25317996	RCOR3_g6487.t1	RCOR3
scaffold_2	851390	861859	RENI_g6253.t1	RENI
scaffold_2	45428316	45433281	MSTRG.6812.1	RFX5
scaffold_2	45428788	45433281	MSTRG.6812.2	RFX5
scaffold_2	18712783	18831999	RGL1_g6435.t1	RGL1
scaffold_2	14279835	14412614	RGPS2_g6390.t1	RGPS2
scaffold_2	17614703	17618608	RGS16_g6423.t1	RGS16
scaffold_2	32647932	32653024	RGS4_g6538.t1	RGS4
scaffold_2	32540313	32588534	RGS5_g6537.t1	RGS5
scaffold_2	70838304	70892267	RHG29_g7091.t1	ARHGAP29
scaffold_2	70838220	70892267	RHG29_g7091.t2	ARHGAP29
scaffold_2	34585866	34599553	RHG30_g6573.t1	ARHGAP30
scaffold_2	45098375	45104694	RIAD1_g6810.t1	RIIAD1
scaffold_2	19819337	19870391	RING2_g6443.t1	RING2
scaffold_2	41488769	41495774	MSTRG.6744.2	RIT1
scaffold_2	41489354	41495774	RIT1_g6698.t1	RIT1
scaffold_2	41451578	41452705	RL3R2_g6696.t1	RL3R2
scaffold_2	72065622	72074880	RL5_g7102.t1	RPL5
scaffold_2	34373257	34373595	RLA1_g6557.t1	RPLP1
scaffold_2	45068303	45071913	RM09_g6809.t1	RM09
scaffold_2	40802121	40803713	RM24_g6670.t1	MRPL24
scaffold_2	47692069	47761462	RN115_g6890.t1	RNF115
scaffold_2	17578220	17599331	RN5A_g6422.t1	RNASEL
scaffold_2	63056061	63078328	RNPC3_g7051.t1	RNPC3
scaffold_2	97135994	97293798	ROR1_g7243.t1	ROR1
scaffold_2	47677075	47690530	RPC3_g6889.t1	RPC3
scaffold_2	93587385	93609171	RPE65_g7215.t1	RPE65
scaffold_2	79623400	79643342	RPF1_g7157.t1	RPF1
scaffold_2	46123981	46125340	RPRD2_g6844.t1	RPRD2
scaffold_2	46125341	46152326	RPRD2_g6845.t1	RPRD2
scaffold_2	46125341	46152369	RPRD2_g6845.t2	RPRD2
scaffold_2	46166545	46226392	RPRD2_g6846.t1	RPRD2
scaffold_2	40804104	40810738	RRNAD_g6671.t1	RRNAD1
scaffold_2	42933522	42935059	RS27_g6744.t1	RPS27
scaffold_2	54681612	54721394	MSTRG.6949.3	RSBN1
scaffold_2	54669165	54717099	RSBN1_g6962.t1	RSBN1
scaffold_2	54668934	54717099	RSBN1_g6962.t2	RSBN1
scaffold_2	10905274	10916350	RT14_g6376.t1	BLOC1S1
scaffold_2	41615112	41646973	RT29_g6702.t1	RT29
scaffold_2	65707636	65728130	RTCA_g7062.t1	RTCA
scaffold_2	41878232	41886295	RUSC1_g6704.t1	RUSC1
scaffold_2	640824	645603	RUXE_g6250.t1	SNRPE
scaffold_2	69978806	69990958	RWDD3_g7082.t1	RWDD3
scaffold_2	69978079	69990958	RWDD3_g7082.t2	RWDD3

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scaffold_2	44825310	44830415	MSTRG.6799.1	S100A11
scaffold_2	44825331	44830415	MSTRG.6799.2	S100A11
scaffold_2	43210321	43220156	MSTRG.6797.2	S100A13
scaffold_2	43210945	43220088	MSTRG.6797.4	S100A13
scaffold_2	43225827	43232080	MSTRG.6794.1	S100A16
scaffold_2	43291533	43292253	S10A6_g6762.t1	S100A6
scaffold_2	44860546	44864058	S10AA_g6801.t1	S100A10
scaffold_2	43466349	43467129	S10AC_g6765.t1	S100A12
scaffold_2	43230877	43232080	S10AG_g6758.t1	S100A16
scaffold_2	43449564	43450106	S115A_g6764.t2	S115A
scaffold_2	6105554	6125078	S19A2_g6331.t1	S19A2
scaffold_2	64903582	64904895	S1PR1_g7054.t1	S1PR1
scaffold_2	52549089	52617474	S22AF_g6937.t1	SLC22A15
scaffold_2	43095850	43100326	S27A3_g6751.t1	SLC27A3
scaffold_2	42957779	42960390	S39A1_g6748.t1	S39A1
scaffold_2	2270032	2288645	S41A1_g6277.t1	SLC41A1
scaffold_2	58029913	58065892	SAHH2_g7009.t1	AHCYL1
scaffold_2	3324737	3335417	SARG_g6299.t1	SARG
scaffold_2	65836959	65871775	SAS6_g7067.t1	SASS6
scaffold_2	45400430	45415554	SBP1_g6817.t1	SELENBP1
scaffold_2	13495721	13529589	SC16B_g6386.t1	SEC16B
scaffold_2	13564779	13598440	SC16B_g6386.t2	SEC16B
scaffold_2	49007882	49027466	SC22B_g6907.t1	SEC22B
scaffold_2	49007825	49027466	SC22B_g6907.t2	SEC22B
scaffold_2	2288646	2290934	SC5D_g6278.t1	SC5D
scaffold_2	41942618	41946861	SCAM3_g6709.t1	SCAMP3
scaffold_2	59459255	59493868	SCMC1_g7042.t1	SCMC1
scaffold_2	45576275	45578518	SCNM1_g6824.t1	SCNM1
scaffold_2	59897893	60014912	SCTM1_g7044.t1	SECTM1
scaffold_2	6443855	6482001	MSTRG.6446.3	SCYL3
scaffold_2	49007603	49042930	MSTRG.6901.2	SEC22B
scaffold_2	6230912	6271750	MSTRG.6439.1	SELP
scaffold_2	6230912	6271750	MSTRG.6439.2	SELP
scaffold_2	45602436	45612086	SEM6C_g6827.t1	SEMA6C
scaffold_2	18970706	19004200	SEN15_g6437.t1	SEN15
scaffold_2	49542006	49575229	SERA_g6913.t1	PHGDH
scaffold_2	45728313	45759128	SETB1_g6836.t1	SETDB1
scaffold_2	5345531	5348155	SETD6_g6324.t1	SETD6
scaffold_2	46606890	46610891	SF3B4_g6857.t1	SF3B4
scaffold_2	4957743	4973325	SFT2B_g6321.t1	SFT2B
scaffold_2	42154455	42161145	SHC1_g6727.t1	SHC1
scaffold_2	42153990	42161145	SHC1_g6727.t3	SHC1
scaffold_2	77733230	77769407	SHLB1_g7139.t1	SH3GLB1
scaffold_2	17897758	17944592	SHP1L_g6427.t1	SHCBP1L

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scaffold_2	35790336	35797755	SLAF7_g6580.t2	SLAF7
scaffold_2	36457077	36459106	SLAF9_g6598.t1	SLAF9
scaffold_2	55392203	55406970	MOT1_g6969.t2	SLC16A1
scaffold_2	94671426	94720047	S35D2_g7223.t1	SLC35D1
scaffold_2	42956974	42961029	MSTRG.6785.3	SLC39A1
scaffold_2	2267649	2291523	MSTRG.6392.3	SLC41A1
scaffold_2	2267665	2324641	MSTRG.6392.4	SLC41A1
scaffold_2	26583043	26584484	CA074_g6498.t2	SMARCC2
scaffold_2	41177997	41207894	SMG5_g6685.t1	SMG5
scaffold_2	18434767	18518929	MSTRG.6535.2	SMG7
scaffold_2	18434767	18518929	SMG7_g6431.t1	SMG7
scaffold_2	22623213	22671643	SMYD2_g6459.t1	SMYD2
scaffold_2	2134259	2138746	ELK4_g6273.t1	SNAPC4
scaffold_2	43184363	43185788	SNAPN_g6755.t1	SNAPN
scaffold_2	45133383	45197837	SNX27_g6812.t1	SNX27
scaffold_2	66979639	67079619	SNX7_g7076.t1	SNX7
scaffold_2	58609925	58658378	MSTRG.7010.3	SORT1
scaffold_2	79573986	79608907	SPAT1_g7155.t1	SPAT1
scaffold_2	53858001	53870588	SPF27_g6950.t1	SPF27
scaffold_2	50650514	50844054	SPG17_g6919.t1	BSCL2
scaffold_2	14097746	14104402	SPTC2_g6389.t1	SPTLC2
scaffold_2	58582603	58582906	SRCRM_g7023.t1	SCART1
scaffold_2	2581775	2819577	MSTRG.6393.2	SRGAP2
scaffold_2	2584174	2819577	SRGP2_g6286.t1	SRGP2
scaffold_2	92140517	92170340	SRS11_g7210.t1	SRS11
scaffold_2	92138104	92183816	MSTRG.7224.4	SRSF11
scaffold_2	92138104	92183816	MSTRG.7224.5	SRSF11
scaffold_2	26115126	26123978	SRTD4_g6492.t1	SRTD4
scaffold_2	26582331	26584484	SSPO_g6497.t1	SSPOP
scaffold_2	41393410	41399388	SSRB_g6694.t1	SSR2
scaffold_2	79463034	79482855	IFFO1_g7152.t1	SSX2IP
scaffold_2	79463235	79507650	MSTRG.7172.3	SSX2IP
scaffold_2	55706839	55777082	ST7L_g6974.t1	ST7L
scaffold_2	54746198	54746896	STAT1_g6964.t1	STAT1
scaffold_2	54746975	54747664	STAT1_g6965.t1	STAT1
scaffold_2	57990983	58008646	STRP1_g7008.t1	STRIP1
scaffold_2	16218297	16248048	STX6_g6410.t1	STX6
scaffold_2	59075937	59131783	STXB3_g7036.t1	STXB3
scaffold_2	3944065	3968631	STYL2_g6309.t1	STYL2
scaffold_2	8759741	8846834	MSTRG.6461.1	SUCO
scaffold_2	8760110	8846834	SUCO_g6356.t1	SUCO
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scaffold_2	42019682	42021732	SWET1_g6719.t1	SWET1

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scaffold_2	9913119	9942634	SYDM_g6368.t1	DARS2
scaffold_2	58551200	58562444	SYPL2_g7022.t1	SYPL2
scaffold_2	58738698	58759229	SYSC_g7029.t1	SARS1
scaffold_2	46102544	46114708	SYTM_g6843.t1	TARS2
scaffold_2	49904020	49992132	SYWM_g6917.t1	WARS2
scaffold_2	26584509	26604406	T3JAM_g6499.t1	T3JAM
scaffold_2	3572890	3588774	TADA1_g6304.t1	TADA1
scaffold_2	55607259	55610336	TAFA3_g6970.t1	TAFA3
scaffold_2	36483663	36491993	TAGL2_g6600.t1	TAGL2
scaffold_2	24023396	24041513	TATD3_g6470.t1	TATDN3
scaffold_2	41146676	41163347	TCPG_g6683.t1	CCT3
scaffold_2	71128360	71144995	TDIF2_g7094.t1	DNTTIP2
scaffold_2	42518368	42562198	TDR10_g6735.t1	TDRD10
scaffold_2	14973402	15034959	TDRD5_g6397.t1	TDRD5
scaffold_2	51166323	51167504	TET5C_g6922.t1	TET5C
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scaffold_2	75831492	75861286	TF2B_g7133.t1	TF2B
scaffold_2	70026930	70071376	TLCD4_g7083.t1	TLCD4
scaffold_2	99178950	99224245	TM2D1_g7257.t1	TM2D1
scaffold_2	1811637	1845394	TMCC2_g6267.t1	TMCC2
scaffold_2	30234816	30322012	TMCO1_g6525.t1	TMCO1
scaffold_2	71764083	71779678	TMED5_g7099.t1	TMED5
scaffold_2	1681167	1719934	MSTRG.6381.1	TMEM81
scaffold_2	1681444	1719934	MSTRG.6381.2	TMEM81
scaffold_2	41171137	41175452	TMM79_g6684.t1	TMM79
scaffold_2	1681765	1684585	TMM81_g6264.t1	TMM81
scaffold_2	45572193	45575602	TMOD4_g6823.t1	TMOD4
scaffold_2	79456317	79456541	MSTRG.7170.1	TMUB2
scaffold_2	15236196	15275409	TOIP1_g6402.t1	TOIP1
scaffold_2	15203568	15210511	TOIP2_g6399.t1	TOR1AIP2
scaffold_2	14539112	14552828	TOR3A_g6393.t1	TOR3A
scaffold_2	45586308	45586862	TP8L2_g6826.t1	TP8L2
scaffold_2	42804806	42825972	TPM3_g6742.t1	TPM3
scaffold_2	20964179	21027894	MSTRG.6556.1	TPR
scaffold_2	20964312	21027894	TPR_g6450.t1	TPR
scaffold_2	53924334	54042095	TRI33_g6953.t1	TRIM33
scaffold_2	51623768	51632650	TRI45_g6926.t1	TRI45
scaffold_2	65812143	65836794	TRM13_g7066.t1	TRMT13
scaffold_2	19884836	19919587	TRM1L_g6444.t1	TRM1L
scaffold_2	18970721	19004200	MSTRG.6539.2	TSEN15
scaffold_2	53396882	53436057	TSN2_g6942.t1	TSN2
scaffold_2	41977986	41987639	TSP3_g6713.t1	TSP3

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scaffold_2	45218697	45250083	TUFT1_g6813.t1	TUFT1
scaffold_2	36466428	36482247	TUTLA_g6599.t1	TUTLA
scaffold_2	47558681	47561182	TXNIP_g6878.t1	TXNIP
scaffold_2	88071306	88088625	TYW3_g7192.t2	TYW3
scaffold_2	33089040	33123245	MSTRG.6643.1	UAP1
scaffold_2	33089510	33177223	UAP1_g6543.t1	UAP1
scaffold_2	42507093	42515656	UB2Q1_g6734.t1	UB2Q1
scaffold_2	42742176	42778126	MSTRG.6779.5	UBAP2L
scaffold_2	42742200	42778126	MSTRG.6779.7	UBAP2L
scaffold_2	42742200	42778126	MSTRG.6779.8	UBAP2L
scaffold_2	34511159	34514529	UBP21_g6567.t2	USP21
scaffold_2	42736218	42773741	UBP2L_g6740.t1	UBAP2L
scaffold_2	85528579	85568911	UBP33_g7180.t1	UBP33
scaffold_2	41356592	41370673	UBQL4_g6693.t1	UBQLN4
scaffold_2	41358460	41368388	MSTRG.6730.2	UBQLN4
scaffold_2	30156323	30228362	UCK2_g6524.t1	UCK2
scaffold_2	33166614	33177223	MSTRG.6643.5	UHMK1
scaffold_2	34601667	34606924	MSTRG.6671.3	USF1
scaffold_2	34603248	34606924	USF1_g6574.t1	USF1
scaffold_2	98620360	98629004	UBP1_g7252.t1	USP1
scaffold_2	34504289	34514529	MSTRG.6661.4	USP21
scaffold_2	54436064	54468075	MSTRG.6944.2	USP25
scaffold_2	26516825	26541158	UTP25_g6495.t1	UTP25
scaffold_2	2505642	2510684	V1BR_g6283.t1	AVPR1B
scaffold_2	8010759	8040397	VAMP4_g6351.t1	VAMP4
scaffold_2	52853638	52890309	VANG1_g6940.t1	VANG1
scaffold_2	36043779	36052524	VANG2_g6585.t1	VANG2
scaffold_2	23863596	23897036	VASH2_g6465.t1	VASH2
scaffold_2	59665211	59860236	VAV3_g7043.t2	VAV3
scaffold_2	65338960	65356152	VCAM1_g7058.t1	VCAM1
scaffold_2	46430995	46497054	VPS45_g6854.t1	VPS45
scaffold_2	45559308	45570149	VPS72_g6822.t1	VPS72
scaffold_2	50850814	50881550	MSTRG.6918.2	WDR3
scaffold_2	58882690	58939349	MSTRG.7018.2	WDR47
scaffold_2	93764372	93855235	WLS_g7216.t1	WLS
scaffold_2	55794742	55807167	WNT2B_g6975.t1	WNT2B
scaffold_2	15921665	16152835	XPR1_g6408.t1	XPR1
scaffold_2	14504179	14533456	XYLK_g6392.t1	XYLK
scaffold_2	38762780	38763601	ZAN_g6650.t1	ZAN
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scaffold_2	589807	593906	ZBED6_g6249.t2	ZBED6
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scaffold_2	74414305	74450079	ZN326_g7122.t1	ZNF326
scaffold_2	45470600	45475468	ZN687_g6819.t1	ZNF687

scaffold_2	49643901	49647377	ZN697_g6915.t1	ZNF697
scaffold_2	74414504	74450079	MSTRG.7126.2	ZNF326
scaffold_2	31642508	31650779	LOC000000105_g6535.t1	ZNF383
scaffold_2	73503596	73507830	MSTRG.7122.1	ZNF644
scaffold_2	78579348	78645326	MSTRG.7163.1	ZNHIT6
scaffold_2	65150496	65222631	ZNT7_g7056.t1	SLC30A7
scaffold_2	91301771	91318503	ZRAB2_g7203.t1	ZRANB2
scaffold_2	91301765	91380595	MSTRG.7221.2	ZRANB2
scaffold_2	42441004	42483569	ZXDC_g6732.t1	ZXDC
scaffold_2	85637176	85700699	ZZZ3_g7181.t1	ZZZ3
scaffold_20	46494625	46545015	5NTD_g7536.t1	NT5E
scaffold_20	26344018	26529971	AFG1L_g7443.t1	AFG1L
scaffold_20	48452512	48473119	AGM1_g7547.t1	PGM3
scaffold_20	2900233	3077125	AHI1_g7288.t1	AHI1
scaffold_20	6634836	6777012	AKA7G_g7325.t1	AKAP7
scaffold_20	44835001	44853923	AKIR2_g7523.t1	AKIRIN2
scaffold_20	3354530	3376552	AL8A1_g7292.t1	ALDH8A1
scaffold_20	43111997	43140248	ANKR6_g7512.t1	ANKRD6
scaffold_20	47993144	48140904	AP180_g7543.t1	SNAP91
scaffold_20	6424103	6435879	ARGI1_g7323.t1	ARG1
scaffold_20	25915466	26024116	ARMC2_g7440.t1	ARMC2
scaffold_20	17387824	17400564	ASF1A_g7370.t1	ASF1A
scaffold_20	14140793	14159436	ASM3A_g7360.t1	SMPDL3A
scaffold_20	28186143	28303098	ATG5_g7458.t1	ATG5
scaffold_20	28177868	28204862	MSTRG.7489.1	ATG5
scaffold_20	28197305	28197864	ATP5L_g7459.t1	ATP5MG
scaffold_20	42768442	42841416	BACH2_g7506.t1	BACH2
scaffold_20	2241489	2261585	BCLF1_g7284.t1	BCLAF1
scaffold_20	27547150	27562145	BEND3_g7453.t1	BEND3
scaffold_20	554876	709330	BIG3_g7271.t1	ARFGEF3
scaffold_20	29230629	29231407	NINL_g7462.t1	BVES
scaffold_20	19542782	19547221	CAHM5_g7391.t1	CALHM5
scaffold_20	19599968	19601612	CAHM6_g7394.t1	CALHM6
scaffold_20	185007	198390	CC28A_g7267.t1	CCDC28A
scaffold_20	55410998	55450347	CC50A_g7578.t1	TMEM30A
scaffold_20	55410998	55438653	CC50A_g7578.t2	TMEM30A
scaffold_20	25568466	25668132	CC162_g7436.t1	CCDC162P
scaffold_20	5891751	5894726	CCN2_g7317.t1	CCN2
scaffold_20	34199578	34225122	CCNC_g7477.t1	CCNC
scaffold_20	34198960	34225122	MSTRG.7511.1	CCNC
scaffold_20	56676734	56813248	CD109_g7584.t1	CD109
scaffold_20	24414887	24605280	CDK19_g7422.t1	CDK19
scaffold_20	47574223	47662226	CE162_g7539.t1	CEP162
scaffold_20	25731755	25869007	CE57L_g7438.t1	CEP57L1
scaffold_20	17588095	17741447	CE85L_g7371.t1	CEP85L

scaffold_20	11073446	11081032	CENPW_g7347.t1	CENPW
scaffold_20	25763091	25788349	MSTRG.7473.1	CEP57L1
scaffold_20	43584094	43584378	MSTRG.7546.1	CES4A
scaffold_20	45096003	45112506	CF163_g7528.t1	C6ORF163
scaffold_20	45018885	45049191	CF206_g7527.t1	CFAP206
scaffold_20	57042060	57065800	CGAS_g7589.t1	CGAS
scaffold_20	23718002	23746671	CIKS_g7413.t1	TRAF3IP2
scaffold_20	22000975	22001191	MSTRG.7431.1	CLEC20A
scaffold_20	13975544	14038980	CLVS2_g7359.t1	CLVS2
scaffold_20	44407409	44408761	CNR1_g7520.t1	CNR1
scaffold_20	44407343	44408761	CNR1_g7520.t2	CNR1
scaffold_20	55493575	55598878	COCA1_g7580.t1	MSH2
scaffold_20	55490135	55598878	MSTRG.7639.1	COL12A1
scaffold_20	55490173	55598878	MSTRG.7639.2	COL12A1
scaffold_20	34349880	34375446	COQ3_g7480.t1	COQ3
scaffold_20	27959474	28154355	CRBG1_g7457.t1	CRYBG1
scaffold_20	55450859	55456031	CX7A2_g7579.t1	COX7A2
scaffold_20	42855098	42856561	CXA10_g7508.t1	GJA10
scaffold_20	45155527	45156333	CXB7_g7529.t1	GJB7
scaffold_20	24317683	24340673	DCAM_g7421.t1	AMD1
scaffold_20	18478218	18538676	DCBD1_g7376.t1	DCBLD1
scaffold_20	57073322	57089041	DDX43_g7590.t1	DDX43
scaffold_20	7015523	7017907	DJC10_g7327.t1	DNAJC10
scaffold_20	27462244	27503330	DLP1_g7452.t1	DNM1L
scaffold_20	19623901	19694159	DSE_g7395.t1	DSE
scaffold_20	56978332	56979358	DUSTY_g7586.t1	DSTYK
scaffold_20	6913853	7005362	E41L2_g7326.t1	EPB41L2
scaffold_20	10174372	10258302	ECHD1_g7343.t1	ECHDC1
scaffold_20	93454	164919	ECT2L_g7266.t1	ECT2L
scaffold_20	56979359	56981809	EF1A1_g7587.t1	EEF1A1
scaffold_20	5938294	5999546	ENPP1_g7318.t1	ENPP1
scaffold_20	6061040	6138479	ENPP3_g7319.t1	ENPP3
scaffold_20	6273281	6358123	ENPP3_g7320.t1	ENPP3
scaffold_20	6815638	7027713	MSTRG.7336.1	EPB41L2
scaffold_20	39742048	39907295	EPHA7_g7498.t1	EPHA7
scaffold_20	19100647	19107742	F162B_g7382.t1	FAM162B
scaffold_20	3678839	3684515	FA5_g7297.t1	FA5
scaffold_20	14163220	14166698	FABP7_g7361.t1	FABP7
scaffold_20	49710840	49717656	MSTRG.7599.2	TENT5A
scaffold_20	34770996	34825449	FBXL4_g7482.t1	FBXL4
scaffold_20	25201676	25325382	FIG4_g7429.t1	FIG4
scaffold_20	55280161	55375302	FLIP1_g7577.t1	FLIP1
scaffold_20	26200358	26302337	FOXO3_g7441.t1	FOXO3
scaffold_20	19969536	20064282	FRK_g7400.t1	FRK
scaffold_20	23609717	23667166	FYN_g7411.t1	FYN

scaffold_20	43403915	43441959	GBRR2_g7515.t2	GBRR2
scaffold_20	18426239	18464216	GOPC_g7375.t1	GOPC
scaffold_20	19052579	19070590	GPC6A_g7380.t1	GPRC6A
scaffold_20	25092252	25093343	GPR6_g7427.t1	GPR6
scaffold_20	36737169	36738428	GPR63_g7489.t1	GPR63
scaffold_20	36737136	36738428	GPR63_g7489.t2	GPR63
scaffold_20	31951316	32625095	MSTRG.7502.1	GRIK2
scaffold_20	4076936	4130357	GTR12_g7299.t1	GTR12
scaffold_20	29476412	29587527	HACE1_g7465.t1	HACE1
scaffold_20	3252573	3344821	HBS1L_g7291.t1	HBS1L
scaffold_20	21653421	21702050	HDAC2_g7404.t1	HDAC2
scaffold_20	11997469	12027139	HDDC2_g7354.t1	HDDC2
scaffold_20	505393	526267	HEBP2_g7270.t1	HEBP2
scaffold_20	11613809	11623344	HEY2_g7352.t1	HEY2
scaffold_20	11404373	11424257	HINT3_g7349.t1	HINT3
scaffold_20	52003186	52032456	HMGN3_g7564.t1	HMGN3
scaffold_20	52002921	52032456	MSTRG.7617.2	HMGN3
scaffold_20	46375064	46396829	HNRPQ_g7534.t1	SYNCRIP
scaffold_20	46375064	46396849	HNRPQ_g7534.t2	SYNCRIP
scaffold_20	21605299	21609876	HS3S5_g7403.t1	HS3ST5
scaffold_20	14450363	14483624	HSF2_g7363.t1	HSF2
scaffold_20	1569394	1608025	I20RA_g7278.t1	IL20RA
scaffold_20	49235079	49329622	IBTK_g7552.t1	IBTK
scaffold_20	49225313	49330551	MSTRG.7595.3	IBTK
scaffold_20	49254225	49268523	MSTRG.7595.5	IBTK
scaffold_20	52281871	52303968	IKBP1_g7566.t1	IRAK1BP1
scaffold_20	19127222	19166091	IMA6_g7383.t1	IMA6
scaffold_20	1458185	1477338	INGR1_g7276.t1	INGR1
scaffold_20	54803871	54894023	JSPR1_g7575.t1	JSPR1
scaffold_20	25326036	25452912	KAD9_g7430.t1	AK9
scaffold_20	36407673	36552344	KLH32_g7486.t1	KLH32
scaffold_20	7582771	7696828	MSTRG.7342.3	L3MBTL3
scaffold_20	8130966	8705394	LAMA2_g7334.t1	LAMA2
scaffold_20	8127212	8705394	MSTRG.7351.1	LAMA2
scaffold_20	23110602	23244713	LAMA4_g7407.t1	LAMA4
scaffold_20	378800	486978	MSTRG.7286.3	LAMP2
scaffold_20	51744536	51793118	LCA5_g7563.t1	LCA5
scaffold_20	9942462	9979239	LEG1H_g7339.t2	C6ORF58
scaffold_20	9979291	9984410	LEG1H_g7340.t1	C6ORF58
scaffold_20	7583027	7675790	LMBL3_g7332.t1	L3MBTL3
scaffold_20	29281993	29409498	LN28B_g7464.t1	LN28B
scaffold_20	43103456	43106037	LYRM2_g7511.t1	LYRM2
scaffold_20	1811165	2000064	M3K5_g7281.t1	MAP3K5
scaffold_20	42245761	42312193	M3K7_g7505.t1	MAP3K7
scaffold_20	16970995	17123888	MA1A1_g7366.t1	MAN1A1

scaffold_20	37753357	37791298	MANEA_g7495.t1	MANEA
scaffold_20	48245762	48436415	MAOX_g7545.t1	ME1
scaffold_20	2006534	2174892	MAP7_g7282.t1	MAP7
scaffold_20	43663480	43966032	MCE1_g7519.t1	MCE1
scaffold_20	33856930	33874836	MCHR2_g7475.t1	MCHR2
scaffold_20	33856813	33874836	MCHR2_g7475.t2	MCHR2
scaffold_20	3480882	3484422	MCM10_g7295.t1	MCM10
scaffold_20	17365954	17450045	MCM9_g7369.t1	MCM9
scaffold_20	42935177	43099329	MDN1_g7510.t1	MDN1
scaffold_20	6374468	6424557	MED23_g7322.t1	MED23
scaffold_20	53147793	53368721	MEI4_g7569.t1	MEI4
scaffold_20	24780843	24841419	MET24_g7424.t1	MET24
scaffold_20	24005709	24011938	MFS4B_g7415.t1	MFSD4B
scaffold_20	25496705	25509916	MICA1_g7432.t1	MICA1
scaffold_20	25495809	25509916	MSTRG.7463.13	MICAL1
scaffold_20	36272977	36402652	MMS22_g7485.t1	MMS22
scaffold_20	24049936	24161906	MOT10_g7417.t1	MOT10
scaffold_20	47670375	47699798	MRAP2_g7540.t1	MRAP2
scaffold_20	27573369	27580063	MRES1_g7454.t1	MTRES1
scaffold_20	2271043	2290644	MTFR2_g7285.t1	MTFR2
scaffold_20	56999141	57029935	MTO1_g7588.t1	MTO1
scaffold_20	25546988	25561774	MUC24_g7435.t1	MUC24
scaffold_20	25546988	25559259	MUC24_g7435.t2	MUC24
scaffold_20	3130233	3159527	MYB_g7290.t1	MYB
scaffold_20	47782083	47862922	NB5R4_g7541.t1	NB5R4
scaffold_20	11437426	11587988	MSTRG.7365.2	NCOA7
scaffold_20	11439780	11566294	NCOA7_g7351.t1	NCOA7
scaffold_20	36627330	36634574	NDUF4_g7487.t1	NDUF4
scaffold_20	367483	495471	NHSL1_g7269.t1	NHSL1
scaffold_20	12389948	13305167	MSTRG.7381.1	NKAIN2
scaffold_20	12390108	13305167	MSTRG.7381.2	NKAIN2
scaffold_20	53520463	53521968	FV1_g7570.t1	FV1_g7570.t1
scaffold_20	10689236	10702064	HD_g7346.t1	HD_g7346.t1
scaffold_20	46805737	46806288	LINES_g7537.t1	LINES_g7537.t1
scaffold_20	950808	951038	MSTRG.7292.1	MSTRG.7292.1
scaffold_20	2271039	2288567	MSTRG.7305.3	MSTRG.7305.3
scaffold_20	2894253	3077125	MSTRG.7312.1	MSTRG.7312.1
scaffold_20	2894253	3077854	MSTRG.7312.2	MSTRG.7312.2
scaffold_20	2895023	3083922	MSTRG.7312.3	MSTRG.7312.3
scaffold_20	2895125	3077854	MSTRG.7312.5	MSTRG.7312.5
scaffold_20	2895271	3077854	MSTRG.7312.7	MSTRG.7312.7
scaffold_20	4138727	4164340	MSTRG.7314.4	MSTRG.7314.4
scaffold_20	6815688	7027713	MSTRG.7336.2	MSTRG.7336.2
scaffold_20	6875594	7027713	MSTRG.7336.3	MSTRG.7336.3
scaffold_20	8081876	8105162	MSTRG.7344.4	MSTRG.7344.4

scaffold_20	8130794	8705394	MSTRG.7351.3	MSTRG.7351.3
scaffold_20	10089917	10090137	MSTRG.7356.1	MSTRG.7356.1
scaffold_20	11206829	11207033	MSTRG.7362.1	MSTRG.7362.1
scaffold_20	11375082	11392589	MSTRG.7364.5	MSTRG.7364.5
scaffold_20	11809950	11810173	MSTRG.7366.1	MSTRG.7366.1
scaffold_20	11699034	11699315	MSTRG.7375.1	MSTRG.7375.1
scaffold_20	11997469	12027139	MSTRG.7376.1	MSTRG.7376.1
scaffold_20	14548781	14548985	MSTRG.7388.1	MSTRG.7388.1
scaffold_20	14816806	14817023	MSTRG.7389.1	MSTRG.7389.1
scaffold_20	15045625	15045844	MSTRG.7390.1	MSTRG.7390.1
scaffold_20	15048891	15049124	MSTRG.7394.1	MSTRG.7394.1
scaffold_20	15271142	15306155	MSTRG.7397.1	MSTRG.7397.1
scaffold_20	19161740	19164086	MSTRG.7412.2	MSTRG.7412.2
scaffold_20	21779722	21841064	MSTRG.7430.1	MSTRG.7430.1
scaffold_20	24447624	24571338	MSTRG.7451.2	MSTRG.7451.2
scaffold_20	27148098	27148382	MSTRG.7476.1	MSTRG.7476.1
scaffold_20	29358640	29358870	MSTRG.7498.1	MSTRG.7498.1
scaffold_20	31935612	31935823	MSTRG.7499.1	MSTRG.7499.1
scaffold_20	33613492	33613702	MSTRG.7504.1	MSTRG.7504.1
scaffold_20	33960884	33989880	MSTRG.7505.1	MSTRG.7505.1
scaffold_20	34750593	34825449	MSTRG.7513.2	MSTRG.7513.2
scaffold_20	34323185	34375446	MSTRG.7514.3	MSTRG.7514.3
scaffold_20	34323197	34375446	MSTRG.7514.6	MSTRG.7514.6
scaffold_20	37734275	37805128	MSTRG.7528.1	MSTRG.7528.1
scaffold_20	37743783	37805128	MSTRG.7528.3	MSTRG.7528.3
scaffold_20	43504002	43504215	MSTRG.7541.1	MSTRG.7541.1
scaffold_20	44592900	44593131	MSTRG.7557.1	MSTRG.7557.1
scaffold_20	48601709	48601915	MSTRG.7586.1	MSTRG.7586.1
scaffold_20	49627065	49627265	MSTRG.7589.1	MSTRG.7589.1
scaffold_20	49671066	49671277	MSTRG.7591.1	MSTRG.7591.1
scaffold_20	49831815	49832017	MSTRG.7597.1	MSTRG.7597.1
scaffold_20	49795271	49795496	MSTRG.7600.1	MSTRG.7600.1
scaffold_20	49720092	49720295	MSTRG.7601.1	MSTRG.7601.1
scaffold_20	50038027	50038229	MSTRG.7602.1	MSTRG.7602.1
scaffold_20	49865125	49865342	MSTRG.7604.1	MSTRG.7604.1
scaffold_20	50121419	50121675	MSTRG.7605.1	MSTRG.7605.1
scaffold_20	50367126	50367343	MSTRG.7607.1	MSTRG.7607.1
scaffold_20	51527576	51527803	MSTRG.7610.1	MSTRG.7610.1
scaffold_20	55278021	55278227	MSTRG.7623.1	MSTRG.7623.1
scaffold_20	56978531	56981809	MSTRG.7651.2	MSTRG.7651.2
scaffold_20	44577062	44577265	PLCB_g7522.t1	PLCB_g7522.t1
scaffold_20	26610139	26628852	NR2E1_g7446.t1	NR2E1
scaffold_20	25506513	25509912	NSMA_g7433.t1	SMPD2
scaffold_20	19787509	19919209	NT5D1_g7398.t1	NT5DC1
scaffold_20	44860157	44918993	MSTRG.7561.2	ORC3

scaffold_20	44860567	44911652	MSTRG.7561.3	ORC3
scaffold_20	26709652	26740513	OSTM1_g7447.t1	OSTM1
scaffold_20	24692748	24715996	OXDD_g7423.t1	DDO
scaffold_20	43515429	43546555	P20D2_g7516.t1	PM20D2
scaffold_20	3499905	3503921	PALM2_g7296.t1	PALM2
scaffold_20	2322320	2470250	PDE7B_g7286.t1	PDE7B
scaffold_20	740773	754395	PERP_g7272.t1	PERP
scaffold_20	1684822	1768153	PEX7_g7280.t1	PEX7
scaffold_20	52136013	52260783	PHIP_g7565.t1	PHIP
scaffold_20	56163441	56249066	PIPNB_g7583.t2	PIPNB
scaffold_20	34323011	34375446	MSTRG.7514.1	PNISR
scaffold_20	34330080	34345544	PNISR_g7479.t2	PNISR
scaffold_20	43593165	43596357	PNRC1_g7518.t1	PNRC1
scaffold_20	29234692	29262199	POPD1_g7463.t1	POPD1
scaffold_20	29234497	29262199	POPD1_g7463.t2	POPD1
scaffold_20	29006711	29123454	PPCE_g7461.t1	PREP
scaffold_20	24852798	24899830	PRP17_g7425.t1	CDC40
scaffold_20	12944	93435	REPS1_g7265.t1	REPS1
scaffold_20	23809168	23984313	MSTRG.7445.1	REV3L
scaffold_20	23810064	23984313	REV3L_g7414.t1	REV3L
scaffold_20	7958754	8081875	RHG18_g7333.t1	ARHGAP18
scaffold_20	47865344	47869605	RIPP2_g7542.t2	RIPP2
scaffold_20	32923544	32923909	RL19_g7471.t1	RPL19
scaffold_20	24227837	24262009	RPF2_g7419.t1	RPF2
scaffold_20	43316717	43357488	RRAGD_g7513.t1	RRAGD
scaffold_20	5126656	5129312	RS12_g7304.t1	RS12
scaffold_20	19204708	19217294	RSH4A_g7386.t1	RSPH4A
scaffold_20	27912864	27956475	RT4I1_g7456.t1	RT4I1
scaffold_20	27912738	27956475	RT4I1_g7456.t2	RT4I1
scaffold_20	48447798	48449798	RWD2A_g7546.t1	RWDD2A
scaffold_20	19465364	19486450	RWDD1_g7389.t1	RWDD1
scaffold_20	56862577	56918542	S17A5_g7585.t1	SLC17A5
scaffold_20	5139230	5165331	S18B1_g7305.t1	SLC18B1
scaffold_20	44981055	45011613	S35A1_g7526.t1	SLC35A1
scaffold_20	1674722	1676791	S35D3_g7279.t1	SLC35D3
scaffold_20	26317850	26318407	S45A1_g7442.t1	SLC45A1
scaffold_20	44482139	44498218	SACA1_g7521.t1	SACA1
scaffold_20	7528360	7578856	SAMD3_g7331.t1	SAMD3
scaffold_20	26797824	26874118	SEC63_g7448.t1	SEC63
scaffold_20	54983010	55014734	MSTRG.7628.3	SENP6
scaffold_20	54983158	55110299	SENP6_g7576.t1	SENP6
scaffold_20	14409075	14445036	SERC1_g7362.t1	SERINC1
scaffold_20	25885340	25905451	SESN1_g7439.t1	SESN1
scaffold_20	3988886	3993472	SGK1_g7298.t1	SGK1
scaffold_20	51580984	51638082	SH3L2_g7560.t1	SH3L2

scaffold_20	33411134	33473412	SIM1_g7473.t1	SIM1
scaffold_20	45115689	45117955	CF163_g7528.t2	SMIM8
scaffold_20	7033459	7040641	SMLR1_g7328.t1	SMLR1
scaffold_20	46418207	46484207	MSTRG.7575.2	SNX14
scaffold_20	46418397	46484207	SNX14_g7535.t1	SNX14
scaffold_20	26550659	26589719	SNX3_g7445.t1	SNX3
scaffold_20	27070362	27210628	SOBP_g7450.t1	SOBP
scaffold_20	3420559	3456112	SOCS4_g7294.t1	SOCS3
scaffold_20	10039198	10079772	SOGA3_g7342.t1	SOGA3
scaffold_20	10091879	10108016	SOGA3_g7342.t2	SOGA3
scaffold_20	50804512	50804880	SOX9_g7554.t1	SOX9
scaffold_20	3418341	3419129	SPIN1_g7293.t1	SPIN1
scaffold_20	43563305	43581981	SRS12_g7517.t1	SRSF12
scaffold_20	5415896	5453780	STX7_g7315.t1	STX7
scaffold_20	46373583	46373870	BEST1_g7533.t1	SYNCRIP
scaffold_20	46396631	46403159	MSTRG.7572.5	SYNCRIP
scaffold_20	11436480	11436689	SYNPO_g7350.t1	SYNPO
scaffold_20	44919164	44978889	SYRM_g7525.t1	RARS2
scaffold_20	7352368	7353843	T200A_g7329.t1	T200A
scaffold_20	23706372	23718857	TANC1_g7412.t1	TANC1
scaffold_20	23260971	23279176	TBE_g7409.t1	TBE
scaffold_20	4134203	4164340	MSTRG.7314.2	TBPL1
scaffold_20	4134734	4141185	TBPL1_g7300.t1	TBPL1
scaffold_20	47126883	47153669	TBX18_g7538.t1	TBX18
scaffold_20	49711108	49717656	TET5A_g7553.t1	TENT5A
scaffold_20	24277109	24283902	TF3C6_g7420.t1	TF3C6
scaffold_20	9612134	9783996	THMS1_g7336.t1	THMS1
scaffold_20	26550002	26550658	TM10B_g7444.t1	TRMT10B
scaffold_20	36686321	36737076	TM87B_g7488.t1	TMEM87B
scaffold_20	900230	909847	TNAP3_g7273.t1	TNFAIP3
scaffold_20	49148199	49149461	TPBG_g7551.t1	TPBG
scaffold_20	19549431	19553107	TPC3L_g7392.t1	TPC3L
scaffold_20	12032715	12134768	TPD53_g7355.t1	TPD53
scaffold_20	19776416	19796154	MSTRG.7424.1	TSPYL4
scaffold_20	34232032	34241480	TSTD3_g7478.t1	TSTD3
scaffold_20	19763269	19764441	TSYL1_g7396.t1	TSPYL1
scaffold_20	19776454	19779552	TSYL4_g7397.t1	TSYL4
scaffold_20	51241047	51277632	TTK_g7558.t1	TTK
scaffold_20	43373263	43396767	UB2J1_g7514.t1	UB2J1
scaffold_20	48567082	48655405	UBE3D_g7550.t1	UBE3D
scaffold_20	36932846	36965111	MSTRG.7525.1	UFL1
scaffold_20	36934661	36965111	UFL1_g7491.t1	UFL1
scaffold_20	34250015	34312434	PNISR_g7479.t1	USP45
scaffold_20	24954736	24968702	WASF1_g7426.t1	WASF1
scaffold_20	25472493	25486761	ZBT24_g7431.t1	ZBTB24

scaffold_20	25471626	25509916	MSTRG.7463.1	ZBTB24
scaffold_20	25471626	25509916	MSTRG.7463.3	ZBTB24
scaffold_20	25471626	25509916	MSTRG.7463.4	ZBTB24
scaffold_20	25471648	25509916	MSTRG.7463.6	ZBTB24
scaffold_20	25471648	25509916	MSTRG.7463.7	ZBTB24
scaffold_20	25471648	25509916	MSTRG.7463.8	ZBTB24
scaffold_20	45177201	45270152	ZN292_g7530.t1	ZNF292
scaffold_20	19174552	19202305	ZUP1_g7385.t1	ZUP1
scaffold_21	20745380	20746612	1433S_g7939.t1	SFN
scaffold_21	14925167	14934458	5HT6R_g7836.t1	HTR6
scaffold_21	25953981	25967973	A3LT2_g8038.t1	A3GALT2
scaffold_21	36801080	36874102	AAPK2_g8157.t1	PRKAA2
scaffold_21	412658	426239	ACAP3_g7615.t1	ACAP3
scaffold_21	411544	426239	MSTRG.7666.2	ACAP3
scaffold_21	411544	426239	MSTRG.7666.3	ACAP3
scaffold_21	38682583	38718687	ACO11_g8171.t1	ACOT11
scaffold_21	19986575	19986859	ACTBL_g7917.t1	ACTBL2
scaffold_21	9869295	9876718	ADCL3_g7766.t1	ALDH18A1
scaffold_21	376116	380690	ADIPL_g7612.t1	C1QTNF12
scaffold_21	28460430	28466071	ADPRS_g8071.t1	ADPRS
scaffold_21	28284435	28315130	AGO1_g8069.t1	AGO1
scaffold_21	28348527	28435014	AGO3_g8070.t1	AGO3
scaffold_21	28456699	28459519	AGO3_g8070.t2	AGO3
scaffold_21	28219402	28253008	AGO4_g8068.t1	AGO4
scaffold_21	24669764	24686065	AGRB2_g8005.t1	ADGRB2
scaffold_21	24764432	24793573	AGRB2_g8005.t2	ADGRB2
scaffold_21	151281	184998	AGRIN_g7602.t1	AGRN
scaffold_21	21239061	21243860	AHDC1_g7955.t1	AHDC1
scaffold_21	47398446	47409080	AK1A1_g8262.t1	AKR1A1
scaffold_21	488144	489187	AKIP_g7622.t1	AURKAIP1
scaffold_21	30921822	30932622	AKIR1_g8112.t1	AKIRIN1
scaffold_21	14535590	14542399	ARK74_g7827.t1	AKR7A2
scaffold_21	8616027	8621025	ANGL7_g7743.t1	ANGPTL7
scaffold_21	12315807	12318115	ANO7_g7796.t1	ANO7
scaffold_21	12313782	12326758	MSTRG.7866.1	ANO7
scaffold_21	25436134	25454193	ARCH_g8024.t1	ZBTB8OS
scaffold_21	13081163	13184565	ARGAL_g7814.t1	ARHGEF10L
scaffold_21	12292110	12301794	ARHGJ_g7795.t1	ARHGEF19
scaffold_21	12309516	12312613	ARHGJ_g7795.t3	ARHGEF19
scaffold_21	20618463	20686671	ARI1A_g7936.t2	ARID1A
scaffold_21	14557824	14564772	ARK74_g7828.t1	AKR7L
scaffold_21	14589583	14596507	ARK74_g7829.t1	AKR7L
scaffold_21	14611772	14617912	ARK74_g7830.t1	AKR7L
scaffold_21	48283761	48322035	ARMD1_g8280.t1	HMCN1
scaffold_21	18042568	18087223	ASAP3_g7884.t1	ASAP3

scaffold_21	12595465	12614124	AT132_g7806.t1	ATP13A2
scaffold_21	537076	560944	ATAD3_g7627.t1	ATAD3A
scaffold_21	21780686	21782580	ATIF1_g7968.t1	ATP5IF1
scaffold_21	46355991	46399036	ATPF1_g8242.t1	ATPAF1
scaffold_21	19940455	19961673	AUNIP_g7916.t1	AUNIP
scaffold_21	25768182	25801566	AZIN2_g8035.t1	AZIN2
scaffold_21	361053	362045	B3GT6_g7611.t1	B3GALT6
scaffold_21	4513330	4631586	BACH_g7691.t1	ACOT7
scaffold_21	43945483	43993904	BEND5_g8225.t1	BEND5
scaffold_21	48223608	48227045	BEST4_g8276.t1	BEST4
scaffold_21	48223608	48227045	BEST4_g8276.t2	BEST4
scaffold_21	29847366	29862467	BOREA_g8094.t1	CDCA8
scaffold_21	38375128	38384013	BSND_g8163.t1	BSND
scaffold_21	40991266	41011188	BT3L4_g8207.t1	BTF3L4
scaffold_21	48203280	48207295	BTBDJ_g8273.t1	BTBD19
scaffold_21	40985119	41011188	MSTRG.8279.2	BTF3L4
scaffold_21	21116346	21120258	C16L2_g7951.t1	CD164L2
scaffold_21	29940082	29941343	MSTRG.8169.4	C1ORF122
scaffold_21	17322786	17324580	C1QA_g7873.t1	C1QA
scaffold_21	17341217	17343142	C1QB_g7876.t1	C1QB
scaffold_21	17328609	17332466	C1QC_g7875.t1	C1QC
scaffold_21	40729720	40743329	C2D1B_g8205.t1	CC2D1B
scaffold_21	50304161	50316974	CA050_g8321.t1	C1ORF50
scaffold_21	29841767	29846869	CA109_g8093.t1	AIRIM
scaffold_21	29940301	29941343	CA122_g8099.t1	C1ORF122
scaffold_21	211254	221613	CA159_g7605.t1	C1ORF159
scaffold_21	2553868	2562789	CA174_g7673.t1	C1ORF174
scaffold_21	41815042	41842366	CA185_g8217.t1	C1ORF185
scaffold_21	49608909	49609381	CA210_g8302.t1	C1ORF210
scaffold_21	28142357	28143046	CA216_g8066.t1	C1ORF216
scaffold_21	6797274	6801810	MSTRG.7792.1	CA6
scaffold_21	6797357	6801810	MSTRG.7792.2	CA6
scaffold_21	342947	360820	CAB45_g7610.t1	SDF4
scaffold_21	6803807	6831980	CAH6_g7719.t1	CA6
scaffold_21	831954	845447	CALL6_g7636.t1	CALML6
scaffold_21	41450781	41482462	CALR_g8213.t1	CALR
scaffold_21	31807278	31819426	CAP1_g8124.t1	CAP1
scaffold_21	14646937	14790632	CAPZB_g7832.t1	CAPZB
scaffold_21	8168470	8223262	CASZ1_g7737.t1	CASZ1
scaffold_21	42882214	43308172	CBPC6_g8224.t1	AGBL4
scaffold_21	48970983	48974249	CCD24_g8288.t1	CCDC24
scaffold_21	48955827	48959041	CCD24_g8288.t2	CCDC24
scaffold_21	2431195	2448986	CCD27_g7668.t1	CCDC27
scaffold_21	50401287	50533457	CCD30_g8326.t1	CCDC30
scaffold_21	50547217	50550517	CCD30_g8326.t2	CCDC30

scaffold_21	11094353	11094568	MSTRG.7846.1	CCL22
scaffold_21	491241	499611	CCNL2_g7623.t1	CCNL2
scaffold_21	490439	499611	MSTRG.7676.2	CCNL2
scaffold_21	651763	667489	CD11B_g7633.t1	CDK11B
scaffold_21	667907	668281	CD11B_g7633.t2	CDK11B
scaffold_21	673888	685831	CD11B_g7633.t3	CDK11B
scaffold_21	49533348	49537655	MSTRG.8377.1	CDC20
scaffold_21	42012178	42013346	DOCK4_g8220.t1	CDKN2C
scaffold_21	16739840	16758304	CEL3B_g7868.t1	CELA3B
scaffold_21	1230630	1231208	CELR1_g7644.t1	CELSR1
scaffold_21	7988932	7998651	MSTRG.7810.2	CENPS
scaffold_21	49628663	49712425	CFA57_g8304.t1	CFAP57
scaffold_21	18167513	18168090	MSTRG.7964.1	CHCHD4
scaffold_21	4386142	4445729	CHD5_g7685.t2	CHD5
scaffold_21	32518868	32519425	CITE4_g8140.t1	CITED4
scaffold_21	15573827	15575632	CK2N1_g7849.t1	CAMK2N1
scaffold_21	9114107	9144813	CLCN6_g7754.t1	CLCN6
scaffold_21	50342416	50346190	CLD19_g8323.t1	CLDN19
scaffold_21	19077577	19140960	CLIC4_g7904.t1	CLIC4
scaffold_21	28158785	28183624	CLSPN_g8067.t1	CLSPN
scaffold_21	7401753	7473674	MSTRG.7804.1	CLSTN1
scaffold_21	5699842	5808901	CMTA1_g7708.t1	CAMTA1
scaffold_21	20217326	20226773	CNKR1_g7927.t1	CNKR1
scaffold_21	36573716	36650902	CO8A_g8155.t1	C8A
scaffold_21	40420247	40435031	COA7_g8199.t1	COA7
scaffold_21	27577286	27578606	CORIN_g8056.t1	CORIN
scaffold_21	12322116	12325731	CPLN2_g7797.t1	CPLANE2
scaffold_21	39892459	39909105	CPT2_g8191.t1	CPT2
scaffold_21	444713	446720	CPTP_g7618.t1	CPTP
scaffold_21	20328975	20362364	CRBG2_g7931.t1	CRYBG2
scaffold_21	12543064	12578216	CROCC_g7803.t1	CROCC
scaffold_21	12579711	12584257	CROCC_g7804.t1	CROCC
scaffold_21	12566802	12571139	MSTRG.7878.3	CROCC
scaffold_21	26199927	26767007	CSMD2_g8042.t1	CSMD2
scaffold_21	7403455	7473674	CSTN1_g7727.t1	CLSTN1
scaffold_21	7494347	7543568	MSTRG.7805.1	CTNNBIP1
scaffold_21	30824294	30825841	CXA9_g8110.t1	GJA9
scaffold_21	27347729	27348544	CXB3_g8047.t1	GJB3
scaffold_21	46143653	46146532	MSTRG.8301.1	CYP4B1
scaffold_21	39877308	39883434	CZIB_g8190.t1	CZIB
scaffold_21	36220454	36494942	DAB1_g8152.t1	DAB1
scaffold_21	25145067	25149815	DCD2B_g8011.t1	DCDC2B
scaffold_21	48002197	48005461	DCUP_g8270.t1	DCUP
scaffold_21	8012762	8021522	DFFA_g7734.t1	DFFA
scaffold_21	2527127	2546394	DFFB_g7672.t1	DFFB

scaffold_21	38461514	38492136	DHC24_g8165.t1	DHCR24
scaffold_21	9762657	9800501	DHRS3_g7765.t1	DHRS3
scaffold_21	4822158	4887765	DJC11_g7705.t1	DNAJC11
scaffold_21	11790729	11824269	DJC16_g7781.t1	DNAJC16
scaffold_21	27421023	27449077	DLGP3_g8051.t2	DLGAP3
scaffold_21	48749644	48758041	DMAP1_g8284.t1	DMAP1
scaffold_21	48749597	48758259	MSTRG.8351.1	DMAP1
scaffold_21	46494729	46499940	DMBX1_g8247.t1	DMBX1
scaffold_21	42525091	42528026	DMTA2_g8222.t1	DMRTA2
scaffold_21	21758729	21778253	DNJC8_g7967.t1	DNAJC8
scaffold_21	48976810	48979322	DPH2_g8289.t1	DPH2
scaffold_21	453711	465519	DVL1_g7620.t1	DVL1
scaffold_21	14791265	14801282	DYH10_g7833.t1	DNAH10
scaffold_21	48209456	48210115	DYLT4_g8274.t1	DYNLT4
scaffold_21	39990145	40037107	EAA5_g8193.t2	GRIK3
scaffold_21	29681365	29706947	EAF6_g8088.t1	MEAF6
scaffold_21	49712952	49719757	EBP2_g8305.t1	EBNABP2
scaffold_21	16221434	16301892	ECE1_g7861.t1	ECE1
scaffold_21	40212660	40235311	ECHD2_g8196.t1	ECHDC2
scaffold_21	18422761	18423069	EDNRB_g7894.t1	EDNRB
scaffold_21	18227991	18238501	EF1A1_g7887.t1	EEF1A1
scaffold_21	46310425	46348655	EFC14_g8239.t1	EFCAB14
scaffold_21	11587388	11603880	EFHD2_g7779.t1	EFHD2
scaffold_21	48144550	48171548	MSTRG.8339.2	EIF2B3
scaffold_21	25155448	25163635	EIF3I_g8013.t1	EIF3I
scaffold_21	15826577	16078056	MSTRG.7932.1	EIF4G3
scaffold_21	15826577	16068719	MSTRG.7932.2	EIF4G3
scaffold_21	18283200	18295829	ELOA1_g7889.t1	ELOA
scaffold_21	49509744	49515226	ELOV1_g8299.t1	ELOVL1
scaffold_21	49525543	49533320	ELOV1_g8299.t2	ELOVL1
scaffold_21	14505989	14529359	EMC1_g7825.t1	EMC1
scaffold_21	10666444	10666824	EMC3_g7773.t1	EMC3
scaffold_21	6740825	6756786	MSTRG.7776.1	ENO1
scaffold_21	6741193	6754328	ENOA_g7718.t1	ENO1
scaffold_21	22357729	22457111	EPB41_g7981.t1	EPB41
scaffold_21	12231902	12258847	EPHA2_g7794.t1	EPHA2
scaffold_21	17256940	17290543	EPHA8_g7872.t1	EPHA8
scaffold_21	17489082	17610515	EPHB2_g7877.t1	EPHB2
scaffold_21	41512868	41649967	EPS15_g8214.t1	EPS15
scaffold_21	6030108	6031977	ERRFI_g7713.t1	ERRFI1
scaffold_21	4681429	4683111	ESPNL_g7695.t1	ESPNL
scaffold_21	50659827	50821744	MSTRG.8385.3	EVI5
scaffold_21	32193011	32197841	EXO5_g8133.t1	EXO5
scaffold_21	8527785	8549878	EXOSX_g7741.t1	EXOSX
scaffold_21	20089238	20101445	EXTL1_g7920.t1	EXTL1

scaffold_21	21575103	21644780	EYA3_g7965.t1	EYA3
scaffold_21	12179964	12198396	F131C_g7793.t1	F131C
scaffold_21	25172337	25173519	F167B_g8015.t1	FAM167B
scaffold_21	46593065	46610964	FAAH1_g8248.t1	FAAH1
scaffold_21	1085971	1091968	FAP20_g7642.t1	FAAP20
scaffold_21	24451335	24458753	FABPH_g8000.t1	FABPH
scaffold_21	31976303	32021490	FACE1_g8128.t1	FACE1
scaffold_21	42019827	42418326	FAF1_g8221.t1	FAF1
scaffold_21	11967575	11984673	FBLI1_g7787.t1	FBLIM1
scaffold_21	8984873	8989882	FBX2_g7747.t1	FBX2
scaffold_21	12339253	12384868	FBX42_g7798.t1	FBX42
scaffold_21	9001247	9005797	FBX6_g7749.t1	FBXO6
scaffold_21	12330836	12426817	MSTRG.7868.3	FBXO42
scaffold_21	34076161	34621587	FGGY_g8145.t1	FGGY
scaffold_21	11442266	11577372	FHAD1_g7777.t1	FHAD1
scaffold_21	611958	612647	FND10_g7630.t1	FND10
scaffold_21	50710897	50821744	FOXJ3_g8329.t1	FOXJ3
scaffold_21	50658862	50821744	MSTRG.8385.1	FOXJ3
scaffold_21	32970591	32990314	FOXO6_g8143.t1	FOXO6
scaffold_21	36684627	36801234	FYB2_g8156.t1	FYB2
scaffold_21	7007275	7032560	G6PE_g7722.t1	G6PE
scaffold_21	18320728	18323233	GALE_g7891.t1	GALE
scaffold_21	18326833	18342038	GALE_g7891.t2	GALE
scaffold_21	39301674	39333372	MSTRG.8258.4	GALNT7
scaffold_21	741171	770404	GBB1_g7635.t1	GNB1
scaffold_21	30823211	30825607	MSTRG.8184.1	GJA9
scaffold_21	22129367	22152357	GMEB1_g7978.t1	GMEB1
scaffold_21	22121913	22152357	MSTRG.8066.2	GMEB1
scaffold_21	29739685	29763972	MSTRG.8165.2	GNL2
scaffold_21	4500230	4505635	GP153_g7690.t1	GPR153
scaffold_21	6919002	6935755	GP157_g7721.t1	GP157
scaffold_21	47316618	47346567	GPBL1_g8259.t1	GPBP1L1
scaffold_21	47348804	47352964	GPBL1_g8259.t2	GPBP1L1
scaffold_21	20756232	20765522	GPN2_g7940.t1	GPN2
scaffold_21	20765523	20772796	GPTC3_g7941.t1	GPATCH3
scaffold_21	20780209	20781964	GPTC3_g7941.t2	GPATCH3
scaffold_21	40492074	40498731	GPX7_g8201.t1	GPX7
scaffold_21	50838256	50840470	GUC2B_g8331.t1	GUC2B
scaffold_21	25196540	25225683	HDAC1_g8017.t1	HDAC1
scaffold_21	45101906	45102217	HDC_g8230.t1	HDC
scaffold_21	48008112	48015833	HECD3_g8271.t1	HECD3
scaffold_21	48005772	48012377	MSTRG.8338.1	HECTD3
scaffold_21	41181556	41259411	HEMGN_g8211.t1	HEMGN
scaffold_21	133543	134645	HES4_g7601.t1	HES4
scaffold_21	31436791	31448752	HEYL_g8116.t1	HEYL

scaffold_21	20454919	20458656	HMGN2_g7934.t1	HMGN2
scaffold_21	17940817	17973689	HNRPR_g7882.t1	HNRNPR
scaffold_21	33965625	34034824	HOOK1_g8144.t1	HOOK1
scaffold_21	15777702	15807391	HP1B3_g7857.t1	HP1B3
scaffold_21	15775832	15813385	MSTRG.7921.3	HP1BP3
scaffold_21	47638769	47639875	HPDL_g8268.t1	HPDL
scaffold_21	12160364	12162657	HSPB7_g7791.t2	HSPB7
scaffold_21	16616030	16721397	MSTRG.7949.1	HSPG2
scaffold_21	16616030	16721397	MSTRG.7949.2	HSPG2
scaffold_21	16616035	16721397	MSTRG.7949.3	HSPG2
scaffold_21	16619702	16721397	MSTRG.7949.4	HSPG2
scaffold_21	49454599	49457259	HYI_g8297.t1	HYI
scaffold_21	29985732	30026923	I5P2_g8101.t1	I5P2
scaffold_21	4482065	4487799	ICMT_g7688.t1	ICMT
scaffold_21	18146049	18146582	ID3_g7886.t1	ID3
scaffold_21	29730933	29737316	IDLC_g8090.t1	IDLC
scaffold_21	15827836	16005692	IF4G3_g7859.t1	EIF4G3
scaffold_21	14219602	14262391	IFFO2_g7823.t1	IFFO2
scaffold_21	39222809	39239855	IFT25_g8180.t1	IFT25
scaffold_21	25058259	25116166	IMA7_g8009.t1	KPNA6
scaffold_21	18588335	18606379	INLR1_g7898.t1	INLR1
scaffold_21	430410	442430	INT11_g7617.t1	INTS11
scaffold_21	48981736	49001981	IPO13_g8290.t1	IPO13
scaffold_21	47233317	47278142	MSTRG.8322.1	IPP
scaffold_21	47233317	47247628	MSTRG.8322.2	IPP
scaffold_21	25142167	25144551	MSTRG.8103.3	IQCC
scaffold_21	34931958	34932962	JUN_g8147.t1	JUN
scaffold_21	25533822	25540634	K1522_g8027.t1	KIAA1522
scaffold_21	9225151	9230693	K2013_g7757.t1	KIAA2013
scaffold_21	27917057	27953681	K319L_g8062.t1	K319L
scaffold_21	25724707	25743262	KAD2_g8034.t1	KAD2
scaffold_21	10893618	11299197	MSTRG.7843.1	KAZN
scaffold_21	11290065	11297918	MSTRG.7843.6	KAZN
scaffold_21	11239137	11341110	KAZRN_g7775.t1	KAZRN
scaffold_21	4327153	4378261	KCAB2_g7683.t1	KCNAB2
scaffold_21	32445895	32497774	KCNQ4_g8139.t1	KCNQ4
scaffold_21	45164032	45195749	KCY_g8233.t1	KCY
scaffold_21	20808221	20810404	KDF1_g7943.t1	KDF1
scaffold_21	17684168	17741917	KDM1A_g7879.t1	KDM1A
scaffold_21	49243754	49283555	KDM4A_g8295.t1	KDM4A
scaffold_21	24991763	25016171	KHDR1_g8007.t1	KHDR1
scaffold_21	15709912	15754558	KIF17_g7855.t1	KIF17
scaffold_21	7821470	7980166	KIF1B_g7732.t1	KIF1B
scaffold_21	48244625	48262887	KIF2C_g8278.t1	KIF2C
scaffold_21	4786899	4796174	KLH21_g7702.t1	KLH21

scaffold_21	96185	96850	AMER1_g7597.t1	KLHL17
scaffold_21	964979	1082479	KPCZ_g7641.t1	PRKCZ
scaffold_21	20497128	20534454	KS6A1_g7935.t1	KS6A1
scaffold_21	41026433	41028039	KTI12_g8209.t1	KTI12
scaffold_21	14622591	14632794	LAAT1_g7831.t1	SLC66A1
scaffold_21	25185256	25193479	LCK_g8016.t1	LCK
scaffold_21	38503166	38528974	LEXM_g8166.t1	LEXM
scaffold_21	38503166	38528188	LEXM_g8166.t2	LEXM
scaffold_21	16731688	16732542	PEG3_g7867.t1	LOC101396888
scaffold_21	47486301	47489122	CC163_g8264.t1	LOC102147438
scaffold_21	16609604	16619896	LRAD2_g7865.t1	LRAD2
scaffold_21	46685020	46705174	LRC41_g8251.t1	LRC41
scaffold_21	46684954	46705174	LRC41_g8251.t2	LRC41
scaffold_21	2456388	2476102	LRC47_g7670.t1	LRC47
scaffold_21	39780583	39858946	MSTRG.8264.2	LRP8
scaffold_21	39193951	39213423	MSTRG.8255.2	LRRC42
scaffold_21	46760154	46769166	LURA1_g8253.t1	LURA1
scaffold_21	17747665	17752711	LUZP1_g7880.t1	LUZP1
scaffold_21	18306321	18313449	LYPA2_g7890.t1	LYPLA2
scaffold_21	7496759	7516086	LZIC_g7728.t1	LZIC
scaffold_21	7559263	7563784	LZIC_g7728.t2	LZIC
scaffold_21	7558258	7567958	MSTRG.7806.3	LZIC
scaffold_21	21096218	21107430	M3K6_g7949.t1	MAP3K6
scaffold_21	19752523	19888436	MA1C1_g7914.t1	MAN1C1
scaffold_21	28516445	28539129	MA7D1_g8074.t1	MA7D1
scaffold_21	31009524	31189760	MACF1_g8113.t1	MACF1
scaffold_21	31009323	31324337	MSTRG.8191.1	MACF1
scaffold_21	19605409	19658048	MACOI_g7912.t1	MACO1
scaffold_21	9005900	9011223	MSTRG.7830.1	MAD2L2
scaffold_21	29929613	29934182	MANEL_g8096.t1	MANEAL
scaffold_21	29933403	29934182	MANEL_g8097.t1	MANEAL
scaffold_21	8484985	8509197	MASP2_g7739.t1	MASP2
scaffold_21	46947113	47175741	MAST2_g8257.t1	MAST2
scaffold_21	9006240	9010694	MD2L2_g7750.t1	MD2L2
scaffold_21	22519770	22545939	MECR_g7984.t1	MECR
scaffold_21	21852251	21858318	MED18_g7971.t1	MED18
scaffold_21	39780574	39858946	MSTRG.8264.1	MED18
scaffold_21	49510051	49515226	MSTRG.8375.3	MED8
scaffold_21	2180206	2286129	MEGF6_g7663.t1	MEGF6
scaffold_21	12586510	12589822	MFAP2_g7805.t1	MFAP2
scaffold_21	9272213	9294807	MFN2_g7759.t1	MFN2
scaffold_21	9266257	9287824	MSTRG.7835.2	MFN2
scaffold_21	9266273	9294807	MSTRG.7835.3	MFN2
scaffold_21	19925100	19938667	MFR1L_g7915.t1	MFR1L
scaffold_21	39865345	39875407	MGN_g8189.t1	MAGOH

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scaffold_21	632982	646442	MSTRG.7685.3	MIB2
scaffold_21	14860756	14893162	MIC10_g7834.t1	MIC10
scaffold_21	9305374	9307651	MSTRG.7838.2	MIIP
scaffold_21	46409224	46453747	MKNK1_g8244.t1	MKNK1
scaffold_21	47481514	47485588	MMAC_g8263.t1	MMACHC
scaffold_21	648215	650456	MMP23_g7632.t1	MMP23B
scaffold_21	46399669	46409223	MOB3C_g8243.t1	MOB3C
scaffold_21	31632630	31675653	MOD5_g8121.t1	MOD5
scaffold_21	1250111	1271283	MORN1_g7646.t1	MORN1
scaffold_21	16744189	16758964	MSTRG.7940.2	MPL
scaffold_21	25226651	25228044	MRP_g8018.t1	MARCKSL1
scaffold_21	14529676	14535634	MRT4_g7826.t1	MRT4
scaffold_21	29946770	29982144	MTF1_g8100.t1	MTF1
scaffold_21	19922104	19940977	MSTRG.8009.2	MTFR1L
scaffold_21	9101142	9111348	MTHR_g7753.t1	MTHR
scaffold_21	25163981	25170300	MTM9L_g8014.t1	MTM9L
scaffold_21	8553549	8676027	MSTRG.7826.2	MTOR
scaffold_21	8566355	8676027	MSTRG.7826.4	MTOR
scaffold_21	8554483	8608873	MTOR_g7742.t1	MTOR
scaffold_21	22985935	22986648	MUC19_g7987.t1	MUC19
scaffold_21	15589544	15596178	MUL1_g7850.t1	MUL1
scaffold_21	47630587	47637949	MUTYH_g8267.t1	MUTYH
scaffold_21	469358	473048	MXRA8_g7621.t1	MXRA8
scaffold_21	30817510	30823148	MYCBP_g8109.t1	MYCBP
scaffold_21	18507496	18553083	MYOM3_g7897.t1	MYOM3
scaffold_21	35010151	35046807	MYSM1_g8148.t1	MYSM1
scaffold_21	12999977	13000208	MSTRG.7885.1	MZF1
scaffold_21	703430	734775	NADK_g7634.t1	NADK
scaffold_21	51028321	51097040	NAGAB_g8332.t1	NAGAB
scaffold_21	47354716	47393284	NASP_g8260.t1	NASP
scaffold_21	39016562	39032314	NB5R5_g8174.t1	NB5R5
scaffold_21	14913053	14919311	MSTRG.7912.2	NBL1
scaffold_21	14916073	14918488	NBL1_g7835.t2	NBL1
scaffold_21	28016126	28023726	NCDN_g8063.t1	NCDN
scaffold_21	39345522	39393922	NDC1_g8183.t1	NDC1
scaffold_21	39345216	39393922	NDC1_g8183.t2	NDC1
scaffold_21	12518281	12534058	NECP2_g7802.t1	NECP2
scaffold_21	5423989	5424273	NEST_g7707.t1	NEST
scaffold_21	32370641	32434600	MSTRG.8207.4	NFYC
scaffold_21	32405749	32434213	NFYC_g8138.t1	NFYC
scaffold_21	24298565	24339613	NKAI1_g7997.t1	NKAIN1
scaffold_21	7567740	7594813	NMNA1_g7729.t1	NMNA1
scaffold_21	82294	96112	NOC2L_g7596.t2	NOC2L
scaffold_21	29739121	29763972	NOG2_g8091.t1	GNL2

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scaffold_21	39858976	39864924	APOB_g8188.t1	APOB_g8188.t1
scaffold_21	39858976	39864924	APOB_g8188.t2	APOB_g8188.t2
scaffold_21	1850096	1850536	BMP2K_g7660.t1	BMP2K_g7660.t1
scaffold_21	41981082	41981741	CLVS2_g8218.t1	CLVS2_g8218.t1
scaffold_21	1631048	1631532	CMLO1_g7657.t1	CMLO1_g7657.t1
scaffold_21	21378539	21400263	FA76A_g7958.t1	FA76A_g7958.t1
scaffold_21	37293655	37294242	IFT74_g8159.t1	IFT74_g8159.t1
scaffold_21	6057	6283	MSTRG.7642.1	MSTRG.7642.1
scaffold_21	2116227	2116435	MSTRG.7716.1	MSTRG.7716.1
scaffold_21	5762439	5763325	MSTRG.7755.1	MSTRG.7755.1
scaffold_21	5787311	5787527	MSTRG.7758.1	MSTRG.7758.1
scaffold_21	6159787	6159987	MSTRG.7767.1	MSTRG.7767.1
scaffold_21	7101012	7129982	MSTRG.7793.2	MSTRG.7793.2
scaffold_21	7007472	7035150	MSTRG.7795.2	MSTRG.7795.2
scaffold_21	7568025	7594813	MSTRG.7807.2	MSTRG.7807.2
scaffold_21	11185204	11299197	MSTRG.7843.3	MSTRG.7843.3
scaffold_21	10134362	10253976	MSTRG.7848.1	MSTRG.7848.1
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scaffold_21	13555506	13555714	MSTRG.7889.1	MSTRG.7889.1
scaffold_21	15019548	15019775	MSTRG.7905.1	MSTRG.7905.1
scaffold_21	14810438	14810651	MSTRG.7909.1	MSTRG.7909.1
scaffold_21	14900344	14919311	MSTRG.7912.1	MSTRG.7912.1
scaffold_21	16177343	16177546	MSTRG.7930.1	MSTRG.7930.1
scaffold_21	16194562	16194774	MSTRG.7931.1	MSTRG.7931.1
scaffold_21	16195389	16301892	MSTRG.7933.1	MSTRG.7933.1
scaffold_21	16195391	16301892	MSTRG.7933.2	MSTRG.7933.2
scaffold_21	16739616	16748642	MSTRG.7939.1	MSTRG.7939.1
scaffold_21	16739899	16745301	MSTRG.7939.2	MSTRG.7939.2
scaffold_21	16775196	16775421	MSTRG.7941.1	MSTRG.7941.1
scaffold_21	16764544	16768563	MSTRG.7942.2	MSTRG.7942.2
scaffold_21	16847440	16847651	MSTRG.7944.1	MSTRG.7944.1
scaffold_21	18974116	18974324	MSTRG.7988.1	MSTRG.7988.1
scaffold_21	19005029	19036008	MSTRG.7992.1	MSTRG.7992.1
scaffold_21	19890049	19890612	MSTRG.8006.1	MSTRG.8006.1
scaffold_21	20422404	20454918	MSTRG.8026.4	MSTRG.8026.4
scaffold_21	21205151	21205365	MSTRG.8043.1	MSTRG.8043.1
scaffold_21	24347689	24347917	MSTRG.8079.1	MSTRG.8079.1
scaffold_21	24336230	24336448	MSTRG.8081.1	MSTRG.8081.1
scaffold_21	25489470	25489690	MSTRG.8114.1	MSTRG.8114.1
scaffold_21	26989813	26990023	MSTRG.8128.1	MSTRG.8128.1
scaffold_21	28561133	28635839	MSTRG.8153.3	MSTRG.8153.3
scaffold_21	28561136	28635839	MSTRG.8153.4	MSTRG.8153.4
scaffold_21	28664972	28701900	MSTRG.8155.4	MSTRG.8155.4
scaffold_21	30068789	30069013	MSTRG.8175.1	MSTRG.8175.1

scaffold_21	30091557	30091788	MSTRG.8178.1	MSTRG.8178.1
scaffold_21	31794104	31819426	MSTRG.8197.2	MSTRG.8197.2
scaffold_21	32645636	32843271	MSTRG.8211.7	MSTRG.8211.7
scaffold_21	34199576	34410888	MSTRG.8213.4	MSTRG.8213.4
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scaffold_21	37041296	37041533	MSTRG.8223.1	MSTRG.8223.1
scaffold_21	37556684	37556894	MSTRG.8231.1	MSTRG.8231.1
scaffold_21	38013834	38014052	MSTRG.8236.1	MSTRG.8236.1
scaffold_21	38076570	38076775	MSTRG.8237.1	MSTRG.8237.1
scaffold_21	43567773	43567994	MSTRG.8292.1	MSTRG.8292.1
scaffold_21	44387361	44388123	MSTRG.8295.1	MSTRG.8295.1
scaffold_21	50354214	50354443	MSTRG.8371.1	MSTRG.8371.1
scaffold_21	14916109	14918488	NBL1_g7835.t1	NBL1_g7835.t1
scaffold_21	24396339	24449578	NO40_g7999.t1	NO40_g7999.t1
scaffold_21	13875094	13875321	PHRF1_g7820.t1	PHRF1_g7820.t1
scaffold_21	23689969	23690203	PZRN3_g7989.t1	PZRN3_g7989.t1
scaffold_21	44251113	44381512	SPAT6_g8226.t1	SPAT6_g8226.t1
scaffold_21	6804043	6831980	MSTRG.7787.3	NOTHING
scaffold_21	18809567	18850320	NPAL3_g7901.t1	NPAL3
scaffold_21	4155382	4288871	NPHP4_g7682.t1	NPHP4
scaffold_21	46631878	46658553	NSUN4_g8249.t1	NSUN4
scaffold_21	20792754	20805713	NUDC_g7942.t1	NUDC
scaffold_21	20792718	20805713	NUDC_g7942.t2	NUDC
scaffold_21	24459208	24461974	OBSL1_g8001.t1	OBSL1
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scaffold_21	35142305	35204025	OMA1_g8150.t2	OMA1
scaffold_21	22227559	22261428	OPRD_g7980.t1	OPRD1
scaffold_21	40704155	40725287	ORC1_g8204.t1	ORC1
scaffold_21	41260371	41430852	OSBL9_g8212.t1	OSBL9
scaffold_21	28718507	28745186	OSCP1_g8080.t1	OSCP1
scaffold_21	15698483	15706815	OST48_g7854.t1	DDOST
scaffold_21	15097127	15121129	OTUD3_g7841.t1	OTUD3
scaffold_21	1271528	1276364	P12LL_g7647.t1	P12LL
scaffold_21	50317289	50335246	P3H1_g8322.t1	P3H1
scaffold_21	46829919	46939494	P55G_g8256.t1	PIK3R3
scaffold_21	2332791	2402829	P73_g7666.t1	P73
scaffold_21	31391889	31406174	PABP4_g8115.t1	PABP4
scaffold_21	31548885	31549505	PABP4_g8119.t1	PABP4
scaffold_21	31390509	31406174	MSTRG.8192.3	PABPC4
scaffold_21	12894672	12931922	PADI4_g7811.t1	PADI4
scaffold_21	12937786	12959140	PADI6_g7812.t1	PADI6
scaffold_21	20047918	20067825	PAFA2_g7919.t1	PAFAH2
scaffold_21	20047672	20054756	MSTRG.8013.3	PAFAH2
scaffold_21	5977479	5994674	MSTRG.7765.2	PARK7
scaffold_21	5979024	5994674	PARK7_g7712.t1	PARK7

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scaffold_21	5827629	5879489	PER3_g7710.t1	PER3
scaffold_21	8023739	8158682	PEX14_g7735.t1	PEX14
scaffold_21	16621248	16721397	PGBM_g7866.t1	HSPG2
scaffold_21	21887410	21994898	MSTRG.8060.3	PHACTR4
scaffold_21	21919876	21994898	MSTRG.8060.5	PHACTR4
scaffold_21	21885463	21993068	PHAR4_g7972.t1	PHAR4
scaffold_21	4803558	4809887	PHF13_g7703.t1	PHF13
scaffold_21	20693444	20703564	MSTRG.8030.1	PIGV
scaffold_21	20696492	20703564	PIGV_g7937.t1	PIGV
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scaffold_21	4692112	4718808	PKHG5_g7698.t1	PLEKHG5
scaffold_21	103743	111087	PKHN1_g7599.t1	PLEKHN1
scaffold_21	11905262	11942718	MSTRG.7857.3	PLEKHM2
scaffold_21	48210463	48215063	PLK3_g8275.t1	PLK3
scaffold_21	9235376	9261334	MSTRG.7834.2	PLOD1
scaffold_21	9235376	9261334	PLOD1_g7758.t1	PLOD1
scaffold_21	36942599	37034930	PLPP3_g8158.t1	PLPP3
scaffold_21	46773371	46781900	PMGT1_g8254.t1	POMGNT1
scaffold_21	46773371	46781610	PMGT1_g8254.t2	POMGNT1
scaffold_21	18422808	18426879	MSTRG.7981.1	PNRC2
scaffold_21	40042996	40055162	PODN_g8194.t1	PODN
scaffold_21	40042996	40055183	PODN_g8194.t2	PODN
scaffold_21	31365838	31389536	PPIE_g8114.t1	PPIE
scaffold_21	31552667	31574588	PPIE_g8120.t1	PPIE
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scaffold_21	50388175	50398284	PPIH_g8325.t1	PPIH
scaffold_21	31820691	31841452	PPT1_g8125.t1	PPT1
scaffold_21	14618161	14634588	MSTRG.7911.2	SLC66A1
scaffold_21	40680591	40698191	PR38A_g8203.t1	PR38A
scaffold_21	9928009	9930480	PRAM9_g7768.t1	PRAMEF9
scaffold_21	1777787	2125884	PRD16_g7659.t1	PRDM16
scaffold_21	10149461	10221426	PRDM2_g7772.t1	PRDM2
scaffold_21	47468700	47479986	MSTRG.8330.1	PRDX1
scaffold_21	48230915	48233909	MSTRG.8344.1	PRDX1
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scaffold_21	28054748	28086299	PSB2_g8065.t1	PSB2
scaffold_21	21721138	21722166	PTAFR_g7966.t1	PTAFR
scaffold_21	48178190	48193549	PTC2_g8272.t1	PTCH2
scaffold_21	188847	200208	PTN11_g7603.t1	PTPN11
scaffold_21	49298957	49387929	MSTRG.8359.2	PTPRF
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scaffold_21	49304421	49374158	PTPRF_g8296.t1	PTPRF

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scaffold_21	32602075	32629990	PYRG1_g8141.t1	PYRG1
scaffold_21	46675790	46684582	QCR6_g8250.t1	QCR6
scaffold_21	46705761	46730690	RAD54_g8252.t1	RAD54
scaffold_21	1413854	1421648	RAE1C_g7653.t1	RAE1C
scaffold_21	25454545	25473296	RBBP4_g8025.t1	RBBP4
scaffold_21	7603254	7609198	MSTRG.7808.1	RBP7
scaffold_21	7603254	7616115	MSTRG.7808.2	RBP7
scaffold_21	18877260	18913654	MSTRG.7985.2	RCAN3
scaffold_21	18885455	18913654	RCAN3_g7902.t1	RCAN3
scaffold_21	18885440	18913654	RCAN3_g7902.t2	RCAN3
scaffold_21	22022729	22029761	RCC1_g7973.t1	RCC1
scaffold_21	12963014	12984855	RCC2_g7813.t1	RCC2
scaffold_21	1274928	1283464	RER1_g7648.t1	RER1
scaffold_21	6286605	6557984	RERE_g7715.t1	RERE
scaffold_21	21508132	21524879	RFA2_g7962.t1	RPA2
scaffold_21	30831305	30860147	RHBL2_g8111.t1	RHBDL2
scaffold_21	19556720	19596886	RHL_g7911.t1	RHL
scaffold_21	50598768	50626139	RIMKA_g8328.t1	RIMKLA
scaffold_21	50592642	50626139	MSTRG.8383.1	RIMKLA
scaffold_21	50592642	50626139	MSTRG.8383.2	RIMKLA
scaffold_21	50593681	50626139	MSTRG.8383.3	RIMKLA
scaffold_21	50598201	50606356	MSTRG.8383.4	RIMKLA
scaffold_21	32316956	32330199	RIMS3_g8137.t2	RIMS3
scaffold_21	27685835	27686104	RL10A_g8059.t1	RL10A
scaffold_21	18240770	18245451	RL11_g7888.t1	RPL11
scaffold_21	4452247	4459378	RL22_g7686.t1	RPL22
scaffold_21	31882052	31961281	MSTRG.8199.2	RLF
scaffold_21	31882052	31961281	MSTRG.8199.3	RLF
scaffold_21	31882026	31961281	RLF_g8126.t1	RLF
scaffold_21	502851	506564	RM20_g7624.t1	MRPL20
scaffold_21	38996646	39011633	RM37_g8173.t1	MRPL37
scaffold_21	25669484	25689744	RN19B_g8033.t1	RN19B
scaffold_21	48356565	48374890	RN220_g8282.t1	RNF220
scaffold_21	202521	205201	RN223_g7604.t1	RNF223
scaffold_21	41721691	41757133	RNF11_g8216.t1	RNF11
scaffold_21	21851430	21858318	MSTRG.8058.2	RNF141
scaffold_21	202521	240677	MSTRG.7661.4	RNF223
scaffold_21	16421337	16472096	RPGP1_g7863.t1	RAP1GAP
scaffold_21	18241136	18245451	MSTRG.7967.2	RPL11
scaffold_21	30799501	30815904	RRAGC_g8108.t1	RRAGC
scaffold_21	48231297	48233909	RS8_g8277.t1	RS8
scaffold_21	11853394	11891206	RSCA1_g7783.t1	RSC1A1
scaffold_21	19503574	19513636	RSRP1_g7908.t1	RSRP1

scaffold_21	19535082	19535992	RSRP1_g7909.t1	RSRP1
scaffold_21	19535993	19539912	RSRP1_g7909.t2	RSRP1
scaffold_21	28748807	28755152	RT15_g8081.t1	MRPS15
scaffold_21	17823488	17823707	MSTRG.7952.1	RTL4
scaffold_21	25577466	25604966	S1PBP_g8029.t1	S1PBP
scaffold_21	7254593	7289681	S2533_g7724.t1	SLC25A33
scaffold_21	11944337	11946839	S2534_g7785.t1	S2534
scaffold_21	15810915	15812954	S39A6_g7858.t1	SLC39A6
scaffold_21	6255383	6276645	S45A1_g7714.t1	SLC45A1
scaffold_21	60464	81644	SAM11_g7595.t1	SAMD11
scaffold_21	48941220	48954457	SC6A9_g8287.t2	SC6A9
scaffold_21	32643958	32843271	MSTRG.8211.1	SCMH1
scaffold_21	32644544	32843271	MSTRG.8211.5	SCMH1
scaffold_21	32644544	32843271	MSTRG.8211.6	SCMH1
scaffold_21	32645636	32811831	SCMH1_g8142.t1	SCMH1
scaffold_21	40071330	40168783	MSTRG.8265.2	SCP2
scaffold_21	24027232	24062267	SDC3_g7995.t1	SDC3
scaffold_21	12620763	12659382	SDHB_g7807.t1	SDHB
scaffold_21	19903806	19920742	MSTRG.8007.1	SELENON
scaffold_21	24491357	24509292	SERC2_g8002.t1	SERINC2
scaffold_21	21805387	21822624	SESN2_g7969.t1	SESN2
scaffold_21	30043316	30065816	SF3A3_g8103.t1	SF3A3
scaffold_21	27695116	27710205	MSTRG.8139.3	SFPQ
scaffold_21	27702972	27710205	SFPQ_g8060.t1	SFPQ
scaffold_21	27695059	27710205	MSTRG.8139.1	SFPQ
scaffold_21	37851801	37922024	MSTRG.8238.2	SH2D5
scaffold_21	15758060	15768502	SH2D5_g7856.t1	SH2D5
scaffold_21	28636976	28650292	SH321_g8076.t1	SH321
scaffold_21	20294579	20295812	SH3L3_g7929.t1	SH3BGRL3
scaffold_21	40457551	40475610	SHL2A_g8200.t1	SHL2A
scaffold_21	8072756	8073109	SIR1_g7736.t1	SIRT1
scaffold_21	1118267	1192166	SKI_g7643.t1	SKI
scaffold_21	20914884	20962650	SL9A1_g7946.t1	SLC9A1
scaffold_21	32076082	32119846	SMAP2_g8130.t1	SMAP2
scaffold_21	2450854	2451359	SMIM1_g7669.t1	SMIM1
scaffold_21	27411712	27415621	MSTRG.8132.2	SMIM12
scaffold_21	22056953	22060117	SNH12_g7975.t1	SNHG12
scaffold_21	24352154	24386628	SNR40_g7998.t1	SNRNP40
scaffold_21	44250915	44381512	SPAT6_g8226.t2	SPATA6
scaffold_21	11824729	11832423	SPEB_g7782.t1	SPEB
scaffold_21	8518717	8522377	SPEE_g7740.t1	SRM
scaffold_21	7061343	7129982	MSTRG.7793.1	SPSB1
scaffold_21	7118334	7129982	SPSB1_g7723.t1	SPSB1
scaffold_21	12455331	12457103	SPT21_g7800.t1	SPATA21
scaffold_21	19005029	19036008	MSTRG.7992.2	SRRM1

scaffold_21	19005042	19036008	MSTRG.7992.4	SRRM1
scaffold_21	19010454	19029258	MSTRG.7992.7	SRRM1
scaffold_21	18938278	18977389	SRRM1_g7903.t1	SRRM1
scaffold_21	19005060	19036008	SRRM1_g7903.t2	SRRM1
scaffold_21	18434128	18441692	MSTRG.7982.6	SRSF10
scaffold_21	22486498	22513404	SRSF4_g7983.t1	SRSF4
scaffold_21	38825595	38987745	SSBP3_g8172.t1	SSBP3
scaffold_21	18165915	18167220	MSTRG.7963.1	SSTR3
scaffold_21	569564	601492	SSU72_g7629.t1	SSU72
scaffold_21	49017725	49285643	MSTRG.8357.1	ST3GAL3
scaffold_21	49017725	49285937	MSTRG.8357.2	ST3GAL3
scaffold_21	49017725	49285937	MSTRG.8357.3	ST3GAL3
scaffold_21	45209262	45265658	STIL_g8234.t1	STIL
scaffold_21	28662511	28681124	STK40_g8078.t1	STK40
scaffold_21	19999128	20002710	STMN1_g7918.t1	STMN1
scaffold_21	21412580	21444610	STX12_g7959.t1	STX12
scaffold_21	50269657	50275973	MSTRG.8368.1	SVBP
scaffold_21	50270491	50275973	SVBP_g8319.t1	SVBP
scaffold_21	19484463	19490342	SYF2_g7906.t1	SYF2
scaffold_21	19497744	19503179	SYF2_g7907.t1	SYF2
scaffold_21	25475389	25489252	SYNCI_g8026.t1	SYNCI
scaffold_21	38570496	38571948	SYPM_g8168.t1	SYPM
scaffold_21	21073364	21082050	SYTL1_g7948.t1	SYTL1
scaffold_21	21089385	21095742	SYTL1_g7948.t2	SYTL1
scaffold_21	12432499	12455238	SZRD1_g7799.t1	SZRD1
scaffold_21	49458002	49509609	SZT2_g8298.t1	SZT2
scaffold_21	6506540	6506869	T2AG_g7716.t1	GTF2A2
scaffold_21	22080184	22091821	TAF12_g7977.t1	TAF12
scaffold_21	8474507	8487729	MSTRG.7821.2	TARDBP
scaffold_21	8474507	8487729	MSTRG.7821.3	TARDBP
scaffold_21	8474542	8487729	MSTRG.7821.5	TARDBP
scaffold_21	18003568	18012830	TCEA3_g7883.t1	TCEA3
scaffold_21	18015918	18038345	TCEA3_g7883.t2	TCEA3
scaffold_21	39103483	39136034	TEAN2_g8177.t1	TEAN2
scaffold_21	20848482	20854413	TET5B_g7945.t1	TENT5B
scaffold_21	4812289	4819549	THAP3_g7704.t1	THAP3
scaffold_21	44602463	44818655	TIKI2_g8229.t1	TIKI2
scaffold_21	24621369	24630827	TINAL_g8003.t1	TINAGL1
scaffold_21	26112748	26115477	TLR12_g8040.t1	TLR12
scaffold_21	7293025	7318787	TM201_g7725.t1	TMEM201
scaffold_21	25150817	25155397	TM234_g8012.t1	TMEM234
scaffold_21	561614	567994	TM240_g7628.t1	TM240
scaffold_21	50282082	50297994	TM269_g8320.t1	TM269
scaffold_21	25038123	25054882	TM39B_g8008.t1	TMEM39B
scaffold_21	19539878	19555228	TM50A_g7910.t1	TMEM50A

scaffold_21	31967524	31970098	TMCO2_g8127.t1	TMCO2
scaffold_21	14937373	14952807	TMCO4_g7837.t1	TMCO4
scaffold_21	14980629	15022535	TMCO4_g7839.t1	TMCO4
scaffold_21	27531930	27534887	TM35B_g8053.t1	TMEM35B
scaffold_21	11421387	11424214	TMM51_g7776.t1	TMEM51
scaffold_21	846522	847956	TMM52_g7637.t1	TMM52
scaffold_21	48336574	48354051	TMM53_g8281.t1	TMM53
scaffold_21	25638952	25645224	TMM54_g8032.t1	TMM54
scaffold_21	39137195	39163483	TMM59_g8178.t1	TMEM59
scaffold_21	38391121	38398619	TMM61_g8164.t1	TMEM61
scaffold_21	11948899	11952519	TMM82_g7786.t1	TMM82
scaffold_21	1438012	1444080	TNR14_g7654.t1	TNR14
scaffold_21	9422113	9456209	TNR1B_g7763.t1	TNFRSF1B
scaffold_21	4686848	4691122	TNR25_g7697.t1	TNFRSF25
scaffold_21	9338204	9399584	TNR8_g7761.t1	TNR8
scaffold_21	47626777	47630374	TOE1_g8266.t1	TOE1
scaffold_21	24920776	24930008	TP4A2_g8006.t1	PTP4A2
scaffold_21	28501698	28510589	TPPC3_g8073.t1	TPPC3
scaffold_21	2299244	2301877	TPRGL_g7664.t1	TPRGL
scaffold_21	25824010	25853567	TRI62_g8036.t1	TRI62
scaffold_21	20124898	20137101	TRI63_g7922.t1	TRIM63
scaffold_21	27415087	27415698	TRIO_g8050.t1	TRIO
scaffold_21	20837737	20838429	TRNP1_g7944.t1	TRNP1
scaffold_21	4764884	4772741	TS1R1_g7700.t1	TS1R1
scaffold_21	14188515	14212088	TS1R2_g7822.t2	TAS1R2
scaffold_21	448339	451920	TS1R3_g7619.t1	TS1R3
scaffold_21	22034454	22055696	TSAP1_g7974.t1	TRNAU1AP
scaffold_21	46784527	46788452	TSN1_g8255.t1	TSN1
scaffold_21	41670163	41713832	TT39A_g8215.t1	TTC39A
scaffold_21	2915682	2916047	TTC13_g7676.t1	TTC13
scaffold_21	38533685	38553551	TTC22_g8167.t1	TTC22
scaffold_21	38580447	38601849	TTC4_g8169.t1	TTC4
scaffold_21	319931	320239	BSND_g7607.t1	TTLL10
scaffold_21	41012268	41035255	TXD12_g8208.t1	TXD12
scaffold_21	25118981	25135042	MSTRG.8097.1	TXLNA
scaffold_21	25119027	25135042	MSTRG.8097.2	TXLNA
scaffold_21	25119683	25135042	MSTRG.8097.3	TXLNA
scaffold_21	25141905	25144551	TXLNA_g8010.t1	TXLNA
scaffold_21	25119717	25135042	TXLNA_g8010.t2	TXLNA
scaffold_21	41012152	41028039	MSTRG.8280.2	TXNDC12
scaffold_21	4773894	4781297	TZAP_g7701.t1	ZBTB48
scaffold_21	385023	395491	UB2J2_g7613.t1	UB2J2
scaffold_21	7645278	7778413	UBE4B_g7731.t1	UBE4B
scaffold_21	8681412	8690697	UBIA1_g7745.t1	UBIAD1
scaffold_21	16496471	16586362	UBP48_g7864.t1	USP48

scaffold_21	14363720	14496114	UBR4_g7824.t1	UBR4
scaffold_21	14361177	14496114	MSTRG.7895.1	UBR4
scaffold_21	38298507	38329684	MSTRG.8241.3	USP24
scaffold_21	30081996	30090882	UTP11_g8105.t1	UTP11
scaffold_21	5813451	5820643	VAMP3_g7709.t1	VAMP3
scaffold_21	9474609	9725037	VP13D_g7764.t1	VP13D
scaffold_21	9471291	9725037	MSTRG.7842.2	VPS13D
scaffold_21	9471303	9725037	MSTRG.7842.3	VPS13D
scaffold_21	9471315	9725037	MSTRG.7842.4	VPS13D
scaffold_21	525061	530265	VWA1_g7626.t1	VWA1
scaffold_21	21141117	21159637	WASF2_g7954.t1	WASF2
scaffold_21	29287580	29292646	WDR38_g8085.t1	WDR38
scaffold_21	20998930	21053487	MSTRG.8038.2	WDTC1
scaffold_21	21046688	21053487	MSTRG.8038.4	WDTC1
scaffold_21	16856830	16882307	WNT4_g7869.t1	WNT4
scaffold_21	2304069	2330207	WRP73_g7665.t1	WRAP73
scaffold_21	50355784	50375730	YBOX1_g8324.t1	YBX1
scaffold_21	50354749	50375730	MSTRG.8372.2	YBX1
scaffold_21	29936755	29940075	YRDC_g8098.t1	YRDC
scaffold_21	22165607	22192851	YTHD2_g7979.t1	YTHDF2
scaffold_21	12108143	12140866	ZBT17_g7789.t1	ZBT17
scaffold_21	17190765	17225464	ZBT40_g7871.t1	ZBT40
scaffold_21	25416910	25429786	ZBT8A_g8023.t1	ZBT8A
scaffold_21	25416739	25429786	ZBT8A_g8023.t2	ZBT8A
scaffold_21	10667171	10667546	MSTRG.7849.1	ZBTB40
scaffold_21	29663013	29671579	ZC12A_g8087.t1	ZC3H12A
scaffold_21	40640400	40675197	MSTRG.8270.3	TUT4
scaffold_21	40640400	40673853	MSTRG.8270.6	TUT4
scaffold_21	20715516	20739326	ZDH18_g7938.t1	ZDHHC18
scaffold_21	20736841	20746612	MSTRG.8029.2	ZDHHC18
scaffold_21	51361699	51426929	ZEP3_g8334.t1	HIVEP3
scaffold_21	32140871	32150958	ZF69B_g8131.t1	ZFP69B
scaffold_21	32166439	32178719	ZFP69_g8132.t1	ZFP69
scaffold_21	40748636	40871481	ZFYV9_g8206.t1	ZFYVE9
scaffold_21	50551069	50583946	ZMY12_g8327.t1	ZMYND12
scaffold_21	27606635	27639718	ZMYM1_g8058.t1	ZMYM1
scaffold_21	27754748	27907548	ZMYM4_g8061.t1	ZMYM4
scaffold_21	27536470	27577248	ZMYM6_g8054.t1	ZMYM6
scaffold_21	25930418	25949438	ZN362_g8037.t1	ZNF362
scaffold_21	20212392	20213122	ZN593_g7926.t1	ZNF593
scaffold_21	32213502	32223195	ZN684_g8134.t1	ZNF684
scaffold_21	50214133	50215095	ZN691_g8317.t1	ZNF691
scaffold_21	49830487	49830704	MSTRG.8363.1	ZNF260
scaffold_21	26125177	26136630	ZSC20_g8041.t1	ZSCAN20
scaffold_21	40329725	40402396	ZY11B_g8198.t1	ZYG11B

scaffold_22	34859672	34865531	1433B_g8676.t1	YWHAB
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scaffold_22	27474510	27492756	MSTRG.8656.2	AAR2
scaffold_22	283877	366644	ABD12_g8339.t1	ABHD12
scaffold_22	25263875	25269064	ACL10_g8571.t1	ACTL10
scaffold_22	35608936	35622259	ACOT8_g8704.t1	ACOT8
scaffold_22	634356	687348	ACS2L_g8343.t1	ACSS1
scaffold_22	26348564	26395793	ACSA_g8587.t1	ACSS2
scaffold_22	34599547	34629279	ADA_g8672.t1	ADA
scaffold_22	19559888	19572453	ADA33_g8471.t1	ADAM33
scaffold_22	39753764	39813403	MSTRG.8787.3	ADNP
scaffold_22	13992913	14010763	ANKE1_g8428.t1	ANKEF1
scaffold_22	2049983	2052494	MSTRG.8421.2	AOC1
scaffold_22	45903577	45959972	APCDL_g8803.t1	APCDD1L
scaffold_22	700398	730810	APMAP_g8344.t1	APMAP
scaffold_22	50220456	50234989	ARFG1_g8863.t1	ARFGAP1
scaffold_22	50610873	50616673	ARFRP_g8876.t1	ARFRP1
scaffold_22	50609748	50616858	MSTRG.8865.2	ARFRP1
scaffold_22	50609828	50616858	MSTRG.8865.4	ARFRP1
scaffold_22	24101732	24178429	ASXL1_g8555.t1	ASXL1
scaffold_22	40386246	40510470	ATP9A_g8763.t1	ATP9A
scaffold_22	19599137	19759596	ATRN_g8473.t1	ATRN
scaffold_22	44157531	44171698	AURKA_g8778.t1	AURKA
scaffold_22	23545513	23589029	B2CL1_g8539.t1	BCL2L1
scaffold_22	38774235	38840987	B4GT5_g8741.t1	B4GALT5
scaffold_22	7079297	7087235	BAFL_g8398.t1	BANF2
scaffold_22	42261875	42359555	BCAS1_g8769.t1	BCAS1
scaffold_22	39684180	39743070	BCAS4_g8756.t2	BCAS4
scaffold_22	23544002	23589597	MSTRG.8585.2	BCL2L1
scaffold_22	38166505	38261204	BIG2_g8735.t1	ARFGEF2
scaffold_22	38285731	38322190	BIG2_g8735.t2	ARFGEF2
scaffold_22	28550503	28550942	BLCAP_g8628.t1	BLCAP
scaffold_22	16938049	16946698	BMP2_g8439.t1	BMP2
scaffold_22	16937857	16948879	MSTRG.8490.1	BMP2
scaffold_22	24823898	24834332	BPIA3_g8563.t1	BPIFA3
scaffold_22	24639548	24651038	BPIB6_g8560.t2	BPIFB6
scaffold_22	12295181	12324302	BTBD3_g8423.t1	BTBD3
scaffold_22	2311905	2313818	C1QR1_g8360.t1	CD93
scaffold_22	49402553	49420759	CABL2_g8843.t1	CABLES2
scaffold_22	35879908	35947757	CAD22_g8717.t1	CDH22
scaffold_22	35680663	35688568	CAPAM_g8711.t1	PCIF1
scaffold_22	44193044	44229423	CASS4_g8780.t1	CASS4
scaffold_22	46428351	46436838	CATZ_g8813.t1	CTSZ
scaffold_22	25088464	25252581	MSTRG.8604.2	CBFA2T2
scaffold_22	25088468	25252581	MSTRG.8604.3	CBFA2T2

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scaffold_22	39212754	39213797	CEBPB_g8750.t1	CEBPB
scaffold_22	19465987	19467813	CENPB_g8466.t1	CENPB
scaffold_22	4995329	5076682	CFA61_g8377.t1	CFAP61
scaffold_22	31909912	32044494	CHD6_g8655.t1	CHD6
scaffold_22	31905988	32107828	MSTRG.8701.1	CHD6
scaffold_22	25372513	25414020	CHM4B_g8575.t1	CHMP4B
scaffold_22	24972718	25008851	CK5P1_g8567.t1	CDK5RAP1
scaffold_22	50554350	50554776	MSTRG.8859.1	CD300C
scaffold_22	20351981	20408998	COE4_g8490.t1	EBF4
scaffold_22	50239528	50261124	COKA1_g8864.t1	COL20A1
scaffold_22	24389335	24407885	COMD7_g8557.t1	COMMD7
scaffold_22	23523038	23528054	COX42_g8538.t1	COX4I2
scaffold_22	26992251	26997516	CPNE1_g8603.t1	CPNE1
scaffold_22	20326631	20332943	CPXM1_g8489.t1	CPXM1
scaffold_22	49171296	49203581	CREST_g8837.t1	SS18L1
scaffold_22	17598335	17625549	CRLS1_g8442.t1	CRLS1
scaffold_22	5084219	5101986	CRNL1_g8378.t1	CRNKL1
scaffold_22	22678890	22703804	CSK21_g8524.t1	CSNK2A1
scaffold_22	6730364	6756448	CSR2B_g8393.t1	KAT14
scaffold_22	1901084	1904454	CST16_g8354.t1	CST6
scaffold_22	44178817	44187253	CSTF1_g8779.t1	CSTF1
scaffold_22	1933142	1937080	CSTL1_g8356.t2	CSTL1
scaffold_22	19489096	19496196	CT027_g8468.t1	ADISSP
scaffold_22	22852636	22872424	CT096_g8531.t1	C20ORF96
scaffold_22	50904573	50906994	CT204_g8888.t1	C20ORF204
scaffold_22	28694599	28853586	CTBL1_g8630.t1	CTNNBL1
scaffold_22	1766146	1770010	CYTC_g8349.t1	CST3
scaffold_22	736919	747835	CYTF_g8345.t1	CST7
scaffold_22	19796003	19938157	DAAF9_g8474.t1	DNAAF9
scaffold_22	35258338	35262495	DBND2_g8691.t1	DBNDD2
scaffold_22	35256167	35262495	MSTRG.8732.1	DBNDD2
scaffold_22	35257942	35262495	MSTRG.8732.2	DBNDD2
scaffold_22	19976296	19987935	DDRGK_g8477.t1	DDRGK1
scaffold_22	19976250	19987935	MSTRG.8534.2	DDRGK1
scaffold_22	19976251	19987935	MSTRG.8534.4	DDRGK1
scaffold_22	38424847	38442294	DDX27_g8737.t1	DDX27
scaffold_22	7199743	7233606	DEST_g8401.t1	DSTN
scaffold_22	29822035	29895097	DHX35_g8646.t1	DHX35
scaffold_22	49103183	49103452	DHX57_g8834.t1	DHX57
scaffold_22	49844726	49894421	DIDO1_g8852.t1	DIDO1
scaffold_22	49852084	49894421	MSTRG.8850.5	DIDO1
scaffold_22	27642369	27732910	DLGP4_g8614.t1	DLGAP4
scaffold_22	26042484	26059206	DLRB1_g8581.t1	DYNLRB1
scaffold_22	50798841	50805048	DNJC5_g8883.t1	DNAJC5

scaffold_22	24439276	24462977	DNM3B_g8558.t1	DNMT3B
scaffold_22	42696217	42854682	DOK5_g8774.t1	DOK5
scaffold_22	39791427	39813403	DPM1_g8757.t1	DPM1
scaffold_22	23707802	23716136	DUS15_g8544.t1	DUSP15
scaffold_22	6494401	6584271	DZAN1_g8390.t1	DZANK1
scaffold_22	25278234	25287330	E2F1_g8572.t1	E2F1
scaffold_22	27416426	27449456	E41L1_g8612.t1	EPB41L1
scaffold_22	26564249	26591374	EDEM2_g8591.t1	EDEM2
scaffold_22	36053605	36079703	ELMO2_g8720.t1	ELMO2
scaffold_22	441698	458995	ENTP6_g8341.t1	ENTPD6
scaffold_22	27401397	27471255	MSTRG.8655.2	EPB41L1
scaffold_22	22413176	22414160	F110A_g8517.t1	FAM110A
scaffold_22	22413176	22424355	F110A_g8518.t1	FAM110A
scaffold_22	44144113	44156109	F210B_g8777.t1	F210B
scaffold_22	47274693	47279506	F217B_g8824.t1	FAM217B
scaffold_22	47278361	47279506	F217B_g8825.t1	FAM217B
scaffold_22	26695493	26701243	FA83C_g8594.t1	FAM83C
scaffold_22	26703852	26709367	FA83C_g8594.t2	FAM83C
scaffold_22	29792380	29814284	FA83D_g8645.t1	FAM83D
scaffold_22	29792479	29814284	FA83D_g8645.t2	FAM83D
scaffold_22	20041847	20048558	FAKD5_g8479.t1	FASTKD5
scaffold_22	20020784	20025710	FAKD5_g8479.t2	FASTKD5
scaffold_22	42952474	42952681	MSTRG.8802.1	FBXL15
scaffold_22	36514714	36514926	FGRL1_g8725.t1	FGRL1
scaffold_22	34341670	34344458	FITM2_g8666.t1	FITM2
scaffold_22	10148141	10150090	FLRT3_g8413.t1	FLRT3
scaffold_22	23691834	23692826	FOXS1_g8542.t1	FOXS1
scaffold_22	26937943	26980928	FR1L4_g8601.t1	FR1L4
scaffold_22	13640580	13666059	MSTRG.8484.2	GALNT7
scaffold_22	44255804	44260854	GCNT7_g8782.t1	GCNT7
scaffold_22	26322419	26345146	GGT7_g8586.t1	GGT7
scaffold_22	26321976	26345146	MSTRG.8631.2	GGT7
scaffold_22	49903967	49907216	GID8_g8853.t1	GID8
scaffold_22	49903883	49907216	GID8_g8853.t2	GID8
scaffold_22	50516359	50549579	GMEB2_g8873.t1	GMEB2
scaffold_22	50514068	50549641	MSTRG.8860.2	GMEB2
scaffold_22	50514086	50549641	MSTRG.8860.3	GMEB2
scaffold_22	46279875	46280609	GNAS3_g8807.t1	GNAS3
scaffold_22	17946103	17991511	GPCP1_g8448.t1	GPCPD1
scaffold_22	17940844	17991511	MSTRG.8502.1	GPCPD1
scaffold_22	26396682	26417809	GSHB_g8588.t1	GSHB
scaffold_22	26407804	26417809	MSTRG.8634.3	GSS
scaffold_22	36354119	36370426	GTR10_g8724.t1	SLC2A10
scaffold_22	2017067	2023806	GZF1_g8358.t1	GZF1
scaffold_22	2015512	2026084	MSTRG.8419.2	GZF1

scaffold_22	23871892	23896679	HCK_g8549.t1	HCK
scaffold_22	23434483	23478604	HM13_g8536.t1	HM13
scaffold_22	23434372	23485443	MSTRG.8578.1	HM13
scaffold_22	34412184	34436160	HNF4A_g8668.t1	HNF4A
scaffold_22	34412184	34436160	HNF4A_g8668.t2	HNF4A
scaffold_22	22742366	22759205	HOIL1_g8526.t1	HOIL1
scaffold_22	19496943	19508570	HS12B_g8469.t1	HS12B
scaffold_22	23498355	23499051	ID1_g8537.t1	ID1
scaffold_22	20427174	20432203	IDH3B_g8491.t1	IDH3B
scaffold_22	25599519	25623326	IF2B_g8577.t1	EIF2S2
scaffold_22	33793557	33824107	IFT52_g8658.t1	IFT52
scaffold_22	34594079	34599024	IPKG_g8671.t1	IPKG
scaffold_22	23695394	23704501	IRF4_g8543.t1	IRF4
scaffold_22	19962552	19971806	ITPA_g8476.t1	ITPA
scaffold_22	13407684	13441134	JAG1_g8424.t1	JAG1
scaffold_22	34194944	34246564	JPH2_g8662.t2	JPH2
scaffold_22	8063174	8347284	KI16B_g8408.t1	KI16B
scaffold_22	8103440	8107307	MSTRG.8457.2	KIF16B
scaffold_22	24064450	24080687	KIF3B_g8554.t1	KIF3B
scaffold_22	49321684	49378468	LAMA5_g8841.t1	LAMA5
scaffold_22	14466857	14482028	LAMP5_g8431.t1	LAMP5
scaffold_22	14467188	14482028	LAMP5_g8431.t2	LAMP5
scaffold_22	24755061	24773339	LATH_g8562.t1	LATH
scaffold_22	24777721	24784829	LATH_g8562.t2	LATH
scaffold_22	50638718	50640028	LIME1_g8878.t1	LIME1
scaffold_22	34930515	35004132	LIMK1_g8679.t1	LIMK1
scaffold_22	21019866	21020489	LIN1_g8503.t1	LIN1
scaffold_22	50947743	50948666	LKAM1_g8892.t1	LKAM1
scaffold_22	33728543	33758766	LMBL1_g8657.t2	L3MBTL1
scaffold_22	35292007	35296046	BPT1_g8694.t1	LOC101393382
scaffold_22	35284893	35286856	ELAC_g8693.t1	LOC101393639
scaffold_22	1892849	1896812	CST16_g8353.t1	LOC101397033
scaffold_22	1892738	1896812	MSTRG.8415.1	LOC101397033
scaffold_22	45382611	45382856	LPPRC_g8796.t1	LRPPRC
scaffold_22	29904096	29904380	AKAP2_g8647.t1	LRRC75A
scaffold_22	49151336	49160690	LS14B_g8835.t1	LS14B
scaffold_22	20003854	20007307	LZTS3_g8478.t1	LZTS3
scaffold_22	31295169	31296609	MAFB_g8649.t1	MAFB
scaffold_22	28357331	28370906	MANBL_g8626.t1	MANBAL
scaffold_22	35166433	35175988	MATN4_g8686.t1	MATN4
scaffold_22	19412293	19423187	MAVS_g8464.t1	MAVS
scaffold_22	6861057	6876678	MGME1_g8396.t1	MGME1
scaffold_22	6860056	6877468	MSTRG.8449.1	MGME1
scaffold_22	13655342	13666059	MKKS_g8426.t1	MKKS
scaffold_22	11092909	11093583	MKRN2_g8420.t1	MKRN2

scaffold_22	26079026	26079994	MLP3A_g8582.t1	MLP3A
scaffold_22	39392663	39392884	MSTRG.8778.1	MMP20
scaffold_22	26646575	26688788	MMP24_g8593.t1	MMP24
scaffold_22	35732934	35740003	MMP9_g8713.t1	MMP9
scaffold_22	39813726	39815102	MOCS3_g8758.t1	MOCS3
scaffold_22	19437605	19439520	MPIP2_g8465.t1	CDC25B
scaffold_22	19450097	19458296	MPIP2_g8465.t2	CDC25B
scaffold_22	49766381	49771402	MSTRG.8849.1	MRGBP
scaffold_22	49766443	49771402	MRGBP_g8848.t1	MRGBP
scaffold_22	28232097	28257691	MROH8_g8623.t1	MROH8
scaffold_22	49206530	49221631	MTG2_g8838.t1	MTG2
scaffold_22	33833577	33866005	MYBB_g8659.t1	MYBL2
scaffold_22	33866060	33866362	MSTRG.8707.1	MYBL2
scaffold_22	26436385	26459718	MYH7B_g8589.t1	MYH7B
scaffold_22	27746103	27751197	MYL9_g8615.t1	MYL9
scaffold_22	23653634	23682241	MYLK2_g8541.t1	MYLK2
scaffold_22	5105008	5123477	NAA20_g8379.t1	NAA20
scaffold_22	74798	99565	MSTRG.8393.1	NANP
scaffold_22	66349	73849	NANP_g8336.t1	NANP
scaffold_22	2007895	2013136	MSTRG.8417.3	NAPB
scaffold_22	19387801	19388178	NCKP5_g8462.t1	NCKP5
scaffold_22	5385226	5854375	NCKX3_g8382.t1	NCKX3
scaffold_22	37010446	37136544	MSTRG.8761.2	NCOA3
scaffold_22	37105320	37133204	NCOA3_g8728.t1	NCOA3
scaffold_22	37105317	37133204	NCOA3_g8728.t2	NCOA3
scaffold_22	35781002	35811130	MSTRG.8753.3	NCOA5
scaffold_22	35782334	35815262	NCOA5_g8715.t1	NCOA5
scaffold_22	27853720	27930855	MSTRG.8665.1	NDRG3
scaffold_22	10653967	10687744	NDUF5_g8417.t1	NDUFAF5
scaffold_22	25259789	25262240	NECA3_g8570.t1	NECA3
scaffold_22	46417514	46427803	MSTRG.8823.1	NELFCD
scaffold_22	46418886	46427803	NELFD_g8812.t1	NELFCD
scaffold_22	20074797	20075576	NEU1_g8481.t1	NEU1
scaffold_22	35645894	35647443	NEUL2_g8708.t1	NEURL2
scaffold_22	27029615	27047418	NFS1_g8605.t1	NFS1
scaffold_22	50182536	50203637	NKAI4_g8861.t1	NKAIN4
scaffold_22	28552893	28554540	NNAT_g8629.t1	NNAT
scaffold_22	24179355	24302102	NOL4L_g8556.t1	NOL4L
scaffold_22	20432529	20437909	NOP56_g8492.t1	NOP56
scaffold_22	39684270	39743070	BCAS4_g8756.t1	BCAS4_g8756.t1
scaffold_22	18246817	18300462	CDS2_g8451.t1	CDS2_g8451.t1
scaffold_22	8599848	8672385	MACD2_g8409.t1	MACD2_g8409.t1
scaffold_22	6877666	6905004	MSTRG.8450.3	MSTRG.8450.3
scaffold_22	9667729	9667947	MSTRG.8455.1	MSTRG.8455.1
scaffold_22	9784567	9784773	MSTRG.8462.1	MSTRG.8462.1

scaffold_22	10270887	10271103	MSTRG.8464.1	MSTRG.8464.1
scaffold_22	11906969	11907196	MSTRG.8474.1	MSTRG.8474.1
scaffold_22	12986745	12986970	MSTRG.8478.1	MSTRG.8478.1
scaffold_22	18397330	18537260	MSTRG.8510.2	MSTRG.8510.2
scaffold_22	18397337	18537260	MSTRG.8510.5	MSTRG.8510.5
scaffold_22	20010909	20025710	MSTRG.8540.3	MSTRG.8540.3
scaffold_22	20010909	20048558	MSTRG.8540.4	MSTRG.8540.4
scaffold_22	20463502	20463791	MSTRG.8553.1	MSTRG.8553.1
scaffold_22	24929641	24987678	MSTRG.8601.1	MSTRG.8601.1
scaffold_22	25914399	26039957	MSTRG.8625.2	MSTRG.8625.2
scaffold_22	25914427	26039957	MSTRG.8625.4	MSTRG.8625.4
scaffold_22	26174495	26205405	MSTRG.8629.1	MSTRG.8629.1
scaffold_22	26174495	26205405	MSTRG.8629.2	MSTRG.8629.2
scaffold_22	27337264	27337477	MSTRG.8654.1	MSTRG.8654.1
scaffold_22	28348370	28370906	MSTRG.8674.1	MSTRG.8674.1
scaffold_22	28348390	28370906	MSTRG.8674.2	MSTRG.8674.2
scaffold_22	28348391	28370906	MSTRG.8674.3	MSTRG.8674.3
scaffold_22	29125719	29125949	MSTRG.8682.1	MSTRG.8682.1
scaffold_22	31890121	31890325	MSTRG.8696.1	MSTRG.8696.1
scaffold_22	33053007	33053209	MSTRG.8704.1	MSTRG.8704.1
scaffold_22	34868826	34869051	MSTRG.8718.1	MSTRG.8718.1
scaffold_22	34518774	34599024	MSTRG.8719.2	MSTRG.8719.2
scaffold_22	34518774	34599024	MSTRG.8719.3	MSTRG.8719.3
scaffold_22	34518821	34599024	MSTRG.8719.4	MSTRG.8719.4
scaffold_22	35248225	35248431	MSTRG.8731.1	MSTRG.8731.1
scaffold_22	39390524	39390727	MSTRG.8777.1	MSTRG.8777.1
scaffold_22	41988229	42013149	MSTRG.8798.2	MSTRG.8798.2
scaffold_22	42964718	42964946	MSTRG.8801.1	MSTRG.8801.1
scaffold_22	41656484	41767122	MSTRG.8806.2	MSTRG.8806.2
scaffold_22	41485279	41512285	MSTRG.8807.1	MSTRG.8807.1
scaffold_22	41564174	41655275	MSTRG.8808.1	MSTRG.8808.1
scaffold_22	49209535	49226130	MSTRG.8841.3	MSTRG.8841.3
scaffold_22	49209535	49226130	MSTRG.8841.4	MSTRG.8841.4
scaffold_22	49537695	49537927	MSTRG.8843.1	MSTRG.8843.1
scaffold_22	50682440	50682652	MSTRG.8863.1	MSTRG.8863.1
scaffold_22	7569438	7570166	PEG3_g8404.t1	PEG3_g8404.t1
scaffold_22	35985939	35988870	RL7A_g8718.t1	RL7A_g8718.t1
scaffold_22	50966660	50967829	NPBW2_g8894.t1	NPBWR2
scaffold_22	21885707	21908459	NSF1C_g8509.t1	NSF1C
scaffold_22	2046616	2049702	MSTRG.8420.2	NXT1
scaffold_22	2046891	2047372	NXT1_g8359.t1	NXT1
scaffold_22	23992256	24015887	OFUT1_g8553.t1	POFUT1
scaffold_22	49775790	49784422	OGFR_g8849.t1	OGFR
scaffold_22	49274834	49303771	OSBL2_g8840.t1	OSBPL2
scaffold_22	34263050	34270218	OSER1_g8664.t1	OSER1

scaffold_22	7892713	7895210	OTOR_g8405.t2	OTOR
scaffold_22	19366210	19387604	MSTRG.8519.3	PANK2
scaffold_22	19361423	19387604	PANK2_g8461.t1	PANK2
scaffold_22	34869527	34890238	PAP1L_g8677.t1	PAP1L
scaffold_22	39644096	39660636	PAR6B_g8755.t1	PARD6B
scaffold_22	45138736	45139203	KDM2B_g8792.t1	PCK1
scaffold_22	45139396	45143817	PCKGC_g8793.t1	PCK1
scaffold_22	45139219	45143817	PCKGC_g8793.t2	PCK1
scaffold_22	51096988	51113360	PCMD2_g8896.t1	PCMD2
scaffold_22	51091979	51114161	MSTRG.8880.2	PCMTD2
scaffold_22	18309238	18315645	PCNA_g8452.t1	PCNA
scaffold_22	39164906	39187463	PDES1_g8749.t1	PDES1
scaffold_22	23772841	23778156	PDRG1_g8546.t1	PDRG1
scaffold_22	20994920	20997082	PDYN_g8501.t1	PDYN
scaffold_22	20302319	20306911	PED1A_g8485.t1	PCED1A
scaffold_22	46130409	46154206	PEPL1_g8805.t1	PEPL1
scaffold_22	42481954	42492449	PFD4_g8773.t1	PFDN4
scaffold_22	27101424	27251731	MSTRG.8651.2	PHF20
scaffold_22	27098254	27249687	PHF20_g8609.t1	PHF20
scaffold_22	46185835	46189228	PIEZ2_g8806.t1	PIEZ2
scaffold_22	35268261	35277599	PIGT_g8692.t1	PIGT
scaffold_22	26080941	26174388	PIGU_g8583.t1	PIGU
scaffold_22	18173948	18181313	PKR2_g8450.t1	PKR2
scaffold_22	23982435	23986619	PLAL2_g8552.t1	PLAGL2
scaffold_22	15211708	15263342	MSTRG.8493.4	PLCB1
scaffold_22	14513535	14770966	PLCB4_g8432.t1	PLCB4
scaffold_22	31711131	31712125	MSTRG.8700.5	PLCG1
scaffold_22	31681231	31717890	PLCG1_g8651.t1	PLCG1
scaffold_22	35654294	35663210	PLTP_g8710.t1	PLTP
scaffold_22	45216915	45272818	PMEPA_g8795.t1	PMEPA1
scaffold_22	29713825	29785886	PP16B_g8644.t1	PPP1R16B
scaffold_22	45682914	45758705	PP4R1_g8800.t1	PP4R1
scaffold_22	50437096	50441228	PPDPF_g8868.t1	PPDPF
scaffold_22	47273479	47274378	PPR3D_g8823.t1	PPP1R3D
scaffold_22	18657022	18657558	PRND_g8456.t1	PRND
scaffold_22	18677187	18677967	PRIO2_g8457.t1	PRNP
scaffold_22	50845573	50902113	PRP6_g8887.t1	PRPF6
scaffold_22	36344097	36346450	PRPK_g8723.t1	TP53RK
scaffold_22	49164650	49170788	PSA7_g8836.t1	PSA7
scaffold_22	37366195	37372376	PSD1_g8730.t1	PSD1
scaffold_22	261884	278777	PSF1_g8338.t1	GINS1
scaffold_22	4398324	4400817	PSMD5_g8372.t1	PSMD5
scaffold_22	22125319	22167964	PSMF1_g8514.t1	PSMF1
scaffold_22	6756449	6760003	PT117_g8394.t1	PET117
scaffold_22	38672643	38709809	PTGIS_g8740.t1	PTGIS

scaffold_22	50441984	50450998	PTK6_g8869.t1	PTK6
scaffold_22	39477992	39539639	PTN1_g8753.t1	PTPN1
scaffold_22	20102155	20216822	PTPRA_g8483.t1	PTPRA
scaffold_22	370066	426589	PYGB_g8340.t1	PYGB
scaffold_22	44957760	44975774	RAEL1_g8789.t3	RAE1
scaffold_22	44957808	44975774	RAEL1_g8789.t4	RAEL1
scaffold_22	4517355	4759744	MSTRG.8429.4	RALGAPA2
scaffold_22	29416425	29507494	MSTRG.8689.2	RALGAPB
scaffold_22	29416428	29507494	MSTRG.8689.3	RALGAPB
scaffold_22	25510511	25588085	MSTRG.8615.2	RALY
scaffold_22	25578974	25585141	RALY_g8576.t1	RALY
scaffold_22	18601747	18615379	RASF2_g8455.t1	RASSF2
scaffold_22	45759137	45814827	RB22A_g8801.t1	RAB22A
scaffold_22	49421259	49430139	RB8NL_g8844.t1	RB8NL
scaffold_22	6462308	6468625	RBBP9_g8388.t1	RBBP9
scaffold_22	28128098	28190805	RBL1_g8622.t1	RBL1
scaffold_22	27015593	27018416	RBM12_g8604.t1	RBM12
scaffold_22	44989837	45005160	RBM38_g8790.t1	RBM38
scaffold_22	27052925	27091097	RBM39_g8608.t1	RBM39
scaffold_22	35179502	35185544	RBPJL_g8687.t1	RBPJL
scaffold_22	27810236	27818637	RCAF1_g8617.t1	RAB5IF
scaffold_22	23407605	23414502	REM1_g8535.t1	REM1
scaffold_22	4451457	4756501	RGPA2_g8374.t1	RALGAPA2
scaffold_22	50938564	50940818	RGS19_g8891.t1	RGS19
scaffold_22	50938564	50941019	RGS19_g8891.t2	RGS19
scaffold_22	5135038	5241195	MSTRG.8436.2	RIN2
scaffold_22	5137767	5243917	MSTRG.8436.5	RIN2
scaffold_22	5139462	5240216	RIN2_g8380.t1	RIN2
scaffold_22	39543608	39618351	RIPR3_g8754.t1	RIPR3
scaffold_22	20825526	20825774	RL27_g8499.t1	RPL27
scaffold_22	38125873	38126211	RL31_g8734.t1	RPL31
scaffold_22	29429679	29504618	RLGPB_g8639.t1	RLGPB
scaffold_22	39019882	39035849	RN114_g8746.t1	RNF114
scaffold_22	27047712	27049046	ROMO1_g8607.t1	ROMO1
scaffold_22	6473652	6492294	RPC6_g8389.t1	RPC6
scaffold_22	28257795	28313433	MSTRG.8673.1	RPN2
scaffold_22	28257795	28313433	RPN2_g8624.t1	RPN2
scaffold_22	28986995	29036249	RPR1B_g8633.t1	PRD1B
scaffold_22	7151095	7195411	RRBP1_g8400.t1	RRBP1
scaffold_22	49399366	49400303	RS21_g8842.t1	RPS21
scaffold_22	25805741	25806139	RS24_g8579.t1	RPS24
scaffold_22	20572947	20581148	RSMB_g8496.t1	RSMB
scaffold_22	20094321	20095818	RT26_g8482.t1	RT26
scaffold_22	50571075	50607209	MSTRG.8864.3	RTEL1
scaffold_22	44236968	44278679	RTF2_g8781.t1	RTF2

scaffold_22	7901342	7909360	RU2B_g8406.t1	SNRPB2
scaffold_22	35750426	35777543	S12A5_g8714.t1	SLC12A5
scaffold_22	49915012	49930295	S17A9_g8854.t1	S17A9
scaffold_22	18447754	18537260	S23A2_g8454.t1	SLC23A2
scaffold_22	50641051	50644570	S2A4R_g8879.t1	S2A4R
scaffold_22	36039318	36047333	S35C2_g8719.t1	SLC35C2
scaffold_22	22449172	22454450	S52A3_g8519.t2	SLC53A3
scaffold_22	25821336	25839810	SAHH_g8580.t1	AHCY
scaffold_22	50840512	50843772	SAM10_g8886.t1	SAM10
scaffold_22	28046279	28106779	SAMH1_g8621.t1	SAMHD1
scaffold_22	6414827	6454315	SC23B_g8387.t1	SC23B
scaffold_22	17711556	17723286	SCG1_g8445.t1	SCG1
scaffold_22	27253045	27253584	SCND1_g8610.t1	SCAND1
scaffold_22	6179290	6179760	SCP2D_g8383.t1	SCP2
scaffold_22	22522601	22553143	SCRT2_g8522.t1	SCRT2
scaffold_22	35195286	35212789	SDC4_g8688.t1	SDC4
scaffold_22	21989450	21998733	SDCB2_g8510.t2	SDCBP2
scaffold_22	34492574	34511717	SERC3_g8670.t1	SERC3
scaffold_22	17759018	17848295	SHLD1_g8446.t1	SHLD1
scaffold_22	21046586	21086109	SHPS1_g8504.t1	SIRPA
scaffold_22	38910240	38978626	SL9A8_g8742.t1	SLC9A8
scaffold_22	27820092	27846830	SLAP2_g8618.t1	SLAP2
scaffold_22	9717888	9718113	MSTRG.8459.1	SLC2A10
scaffold_22	36354044	36371859	MSTRG.8758.2	SLC2A10
scaffold_22	50641069	50644570	MSTRG.8861.2	SLC2A4RG
scaffold_22	19093404	19106221	SMOX_g8459.t1	SMOX
scaffold_22	19535399	19543160	SN_g8470.t1	SN
scaffold_22	1953369	2013136	SNAB_g8357.t1	NAPB
scaffold_22	39053067	39058265	SNAI1_g8747.t1	SNAI1
scaffold_22	13764453	13792029	SNP25_g8427.t1	SNP25
scaffold_22	22002643	22011646	SNPH_g8511.t1	SNPH
scaffold_22	27320853	27325970	MSTRG.8653.1	SNRPN
scaffold_22	25018370	25043321	SNTA1_g8568.t1	SNTA1
scaffold_22	6877509	6905004	SNX5_g8397.t1	SNX5
scaffold_22	49632859	49658420	SO4A1_g8846.t1	SO4A1
scaffold_22	27934020	27946169	SOGA1_g8619.t2	MTCL2
scaffold_22	27958900	28022911	SOGA1_g8619.t3	MTCL2
scaffold_22	22819014	22819967	SOX12_g8529.t1	SOX12
scaffold_22	26983947	26988371	SPAG4_g8602.t1	SPAG4
scaffold_22	38993968	38996495	SPAT2_g8744.t1	SPATA2
scaffold_22	19471205	19474744	SPEF1_g8467.t1	SPEF1
scaffold_22	35643262	35644374	SPT25_g8707.t1	SPT25
scaffold_22	11231361	11374750	SPTC3_g8422.t1	SPTLC3
scaffold_22	28391267	28443858	MSTRG.8676.2	SRC
scaffold_22	28423169	28443858	SRC_g8627.t1	SRC

scaffold_22	33704852	33718852	LMBL1_g8657.t1	SRSF6
scaffold_22	38331599	38386361	MSTRG.8765.4	STAU1
scaffold_22	38327323	38369524	STAU1_g8736.t1	STAU1
scaffold_22	20876427	20891126	STK35_g8500.t1	STK35
scaffold_22	46094085	46116646	STX16_g8804.t1	STX16
scaffold_22	37137477	37231741	SULF2_g8729.t1	SULF2
scaffold_22	47197860	47258787	SYCP2_g8821.t1	SYCP2
scaffold_22	47258828	47261782	SYCP2_g8822.t1	SYCP2
scaffold_22	35225526	35234529	MSTRG.8729.1	SYS1
scaffold_22	35225943	35233111	SYS1_g8689.t1	SYS1
scaffold_22	26200137	26205405	T53I2_g8584.t1	T53I2
scaffold_22	49034941	49114785	MSTRG.8832.1	TAF4
scaffold_22	49034991	49114785	MSTRG.8832.3	TAF4
scaffold_22	49036237	49113878	TAF4_g8833.t1	TAF4
scaffold_22	49036237	49115467	TAF4_g8833.t2	TAF4
scaffold_22	10821066	11028342	TASP1_g8419.t1	TASP1
scaffold_22	22717412	22737338	TBC20_g8525.t1	TBC20
scaffold_22	50929568	50937066	TCEA2_g8890.t1	TCEA2
scaffold_22	49810857	49824984	TCFL5_g8851.t1	TCFL5
scaffold_22	35566890	35588675	TDIF1_g8700.t1	TDIF1
scaffold_22	29104380	29108294	MSTRG.8681.1	TGM2
scaffold_22	27787902	27800495	TGIF2_g8616.t1	TGIF2
scaffold_22	20597172	20599017	TGM3L_g8497.t1	TGM3L
scaffold_22	18319335	18326633	TM230_g8453.t1	TM230
scaffold_22	23907664	23960428	TM9S4_g8550.t1	TM9SF4
scaffold_22	20453342	20526913	TMC2_g8493.t1	TMC2
scaffold_22	15845312	15890465	MSTRG.8492.1	TMX4
scaffold_22	15845730	15890465	TMX4_g8435.t1	TMX4
scaffold_22	35596057	35598954	TNNC2_g8702.t1	TNNC2
scaffold_22	35829919	35839718	TNR5_g8716.t1	CD40
scaffold_22	34893228	34910660	TOM34_g8678.t1	TOMM34
scaffold_22	34034662	34174422	TOX2_g8661.t1	TOX2
scaffold_22	26460747	26537890	TP4AP_g8590.t1	TRPC4AP
scaffold_22	35235376	35239095	MSTRG.8730.1	TP53TG5
scaffold_22	35251091	35254205	MSTRG.8730.4	TP53TG5
scaffold_22	50739683	50760696	TPD54_g8882.t1	TPD54
scaffold_22	23602771	23682241	MSTRG.8586.1	TPX2
scaffold_22	23602771	23653633	MSTRG.8586.2	TPX2
scaffold_22	23615020	23653633	TPX2_g8540.t1	TPX2
scaffold_22	2353005	2354729	TRBM_g8361.t1	TRBM
scaffold_22	22768877	22774837	TRIB3_g8527.t1	TRIB3
scaffold_22	27047252	27047842	TRIO_g8606.t1	TRIO
scaffold_22	17643016	17654691	TRM6_g8443.t1	TRM6
scaffold_22	23974932	23976020	TSY26_g8551.t1	TSPY26P
scaffold_22	28942336	28969904	TTI1_g8632.t1	TTI1

scaffold_22	23722095	23769614	TTLL9_g8545.t1	TTLL9
scaffold_22	34475640	34486253	TTPAL_g8669.t1	TTPAL
scaffold_22	50220007	50220336	TVBJ2_g8862.t1	TVBJ2
scaffold_22	39123477	39155019	UB2V1_g8748.t1	UBE2V1
scaffold_22	35589874	35592868	UBE2C_g8701.t1	UBE2C
scaffold_22	50812216	50825205	UCKL1_g8884.t1	UCKL1
scaffold_22	26720679	26819897	UQCC1_g8595.t1	UQCC1
scaffold_22	45839929	45889866	VAPB_g8802.t1	VAPB
scaffold_22	20275553	20301872	MSTRG.8543.2	VPS16
scaffold_22	20275704	20301872	VPS16_g8484.t1	VPS16
scaffold_22	602917	609551	VSX1_g8342.t1	VSX1
scaffold_22	35319993	35323658	WFDC2_g8695.t1	WFDC2
scaffold_22	35550989	35566789	MSTRG.8739.1	WFDC3
scaffold_22	35550989	35557350	MSTRG.8739.2	WFDC3
scaffold_22	23792319	23815817	XKR7_g8547.t1	XKR7
scaffold_22	3825032	3865271	XRN2_g8370.t1	XRN2
scaffold_22	50154358	50168069	YTHD1_g8860.t1	YTHD1
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scaffold_22	50648328	50692470	ZBT46_g8880.t1	ZBT46
scaffold_22	22840609	22841826	ZCHC3_g8530.t1	ZCCHC3
scaffold_22	40757211	40776764	ZF64B_g8765.t1	ZFP64
scaffold_22	40811778	40840347	ZF64B_g8766.t1	ZFP64
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scaffold_22	36197092	36197314	MSTRG.8755.1	ZNF334
scaffold_22	35689314	35709633	MSTRG.8752.2	ZNF335
scaffold_22	50829745	50836899	MSTRG.8872.5	ZNF512B
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scaffold_22	38444945	38467236	ZNFX1_g8738.t1	ZNFX1
scaffold_22	35640749	35642068	ZSWM1_g8706.t1	ZSWIM1
scaffold_22	35640698	35642068	ZSWM1_g8706.t2	ZSWIM1
scaffold_22	35622759	35637948	ZSWM3_g8705.t1	ZSWIM3
scaffold_23	12257092	12282301	1433Z_g8976.t1	YWHAZ
scaffold_23	17173544	17173867	ABRA_g9004.t1	ABRA
scaffold_23	19898792	19921015	ADCY3_g9022.t1	ADCY3
scaffold_23	38024538	38249681	ADCY8_g9093.t1	ADCY8
scaffold_23	47821479	47854925	MSTRG.9140.2	ADGRB1
scaffold_23	46087365	46207609	MSTRG.9129.1	AGO2
scaffold_23	47780455	47854925	AGRB1_g9140.t1	ADGRB1
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scaffold_23	49727036	49734283	ALAT1_g9214.t1	GPT
scaffold_23	49734509	49737277	ALAT1_g9214.t2	GPT

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scaffold_23	49760854	49912089	MSTRG.9215.1	ARHGAP39
scaffold_23	27498577	27498789	MSTRG.9051.1	ARSK
scaffold_23	13874819	13887089	AZIN1_g8984.t1	AZIN1
scaffold_23	46478980	46479273	BOLA2_g9127.t1	BOLA2
scaffold_23	49487439	49515475	BOP1_g9197.t1	BOP1
scaffold_23	50196351	50206917	MSTRG.9231.2	C8ORF33
scaffold_23	6268116	6332690	CAD17_g8932.t1	CDH17
scaffold_23	49003925	49005281	CC166_g9173.t1	CCDC166
scaffold_23	28438900	28445420	CCN3_g9042.t1	CCN3
scaffold_23	6971240	6983584	CCNE2_g8942.t1	CCNE2
scaffold_23	1461733	1462554	CEBPD_g8906.t1	CEBPD
scaffold_23	50204598	50206917	CH033_g9233.t1	C8ORF33
scaffold_23	7314187	7336210	CH037_g8946.t1	CFAP418
scaffold_23	31731083	31747096	CH076_g9064.t1	C8ORF76
scaffold_23	49757664	49759628	CH082_g9219.t1	C8ORF82
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scaffold_23	49976281	49976949	COMD5_g9225.t2	COMMD5
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scaffold_23	49679092	49692287	CYHR1_g9209.t1	ZFTRAF1
scaffold_23	49692461	49693723	CYHR1_g9210.t1	ZFTRAF1
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scaffold_23	2766965	2767579	DTNB_g8913.t1	DTNB
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scaffold_23	38908582	39010726	EFR3A_g9095.t1	EFR3A
scaffold_23	18442723	18486659	EIF3E_g9011.t1	EIF3E
scaffold_23	18663013	18714478	EMC2_g9012.t1	EMC2
scaffold_23	28528299	28633691	ENPP2_g9043.t1	ENPP2

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scaffold_23	33187494	33206980	ERG1_g9080.t2	SQLE
scaffold_23	6726598	6778245	ESRP1_g8936.t1	ESRP1
scaffold_23	49338906	49340908	EXOS4_g9188.t1	EXOSC4
scaffold_23	27085686	27359145	EXT1_g9036.t1	EXT1
scaffold_23	27085686	27358963	EXT1_g9036.t2	EXT1
scaffold_23	27085486	27332737	MSTRG.9047.2	EXT1
scaffold_23	32171344	32215302	F91A1_g9071.t1	F91A1
scaffold_23	47545679	47546515	FA5_g9137.t1	FA5
scaffold_23	49029513	49041957	FA83H_g9175.t2	FA83H
scaffold_23	5920748	5950028	FA92A_g8927.t1	FA92A
scaffold_23	46232838	46441883	FAK1_g9126.t1	PTK2
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scaffold_23	11550955	11563530	FBX43_g8970.t1	FBXO43
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scaffold_23	49580109	49583170	MSTRG.9196.3	FBXL6
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scaffold_23	32417522	32437357	FR1L6_g9072.t1	FR1L6
scaffold_23	14273037	14301618	FZD6_g8987.t1	FZD6
scaffold_23	14271756	14301618	MSTRG.8993.2	FZD6
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scaffold_23	48599984	48608428	MSTRG.9153.1	GLI4
scaffold_23	49342256	49345496	GPAA1_g9190.t1	GPAA1
scaffold_23	49867805	49912089	MSTRG.9215.5	GYPA
scaffold_23	48564654	48566858	HDBP1_g9154.t1	HDBP1
scaffold_23	49384658	49387570	HGH1_g9195.t1	HGH1
scaffold_23	49384586	49387570	HGH1_g9195.t2	HGH1
scaffold_23	49384569	49387889	MSTRG.9194.1	HGH1
scaffold_23	49515801	49538099	HSF1_g9199.t1	HSF1
scaffold_23	2498088	2506031	I23O2_g8909.t1	I23O2
scaffold_23	6917262	6970118	INT8_g8941.t1	INTS8
scaffold_23	47986021	47987631	JERKY_g9143.t1	JRK
scaffold_23	6582270	6641630	MSTRG.8927.1	VIRMA
scaffold_23	6582942	6641630	MSTRG.8927.2	VIRMA
scaffold_23	49694804	49702100	KIFC2_g9211.t1	KIFC2
scaffold_23	13714440	13722089	KLF10_g8983.t1	KLF10
scaffold_23	32055957	32062816	KLH38_g9069.t1	KLHL38
scaffold_23	49749498	49752278	LRC14_g9217.t1	LRC14
scaffold_23	49752290	49757245	LRC24_g9218.t1	LRRC24
scaffold_23	3653365	3744386	LRC69_g8919.t1	LRC69
scaffold_23	37729504	37767383	LRIG3_g9092.t1	LRIG3
scaffold_23	48044943	48045829	LYNX1_g9148.t1	LYNX1

scaffold_23	9461591	9519311	LYRIC_g8954.t1	MTDH
scaffold_23	9461522	9519311	LYRIC_g8954.t2	MTDH
scaffold_23	49245258	49245491	MACF1_g9182.t1	MACF1
scaffold_23	49367206	49369167	MAF1_g9193.t1	MAF1
scaffold_23	49366360	49369167	MSTRG.9187.2	MAF1
scaffold_23	48740935	48742005	MAFA_g9161.t1	MAFA
scaffold_23	28307872	28334244	MAL2_g9041.t1	MAL2
scaffold_23	49024255	49025874	MSTRG.9169.4	MAPK15
scaffold_23	1208937	1225000	MCM4_g8904.t1	MCM4
scaffold_23	26828596	26846144	MED30_g9035.t1	MED30
scaffold_23	49739161	49741064	MFSD3_g9215.t1	MFSD3
scaffold_23	14349853	14366845	MFTC_g8989.t1	SLC25A32
scaffold_23	49020009	49025874	MK15_g9174.t1	MAPK15
scaffold_23	5974071	6029450	MKS3_g8929.t2	TMEM67
scaffold_23	49484050	49486950	MROH1_g9196.t2	MROH1
scaffold_23	49394733	49480264	MSTRG.9189.1	MROH1
scaffold_23	49394737	49482617	MSTRG.9189.2	MROH1
scaffold_23	47872045	47942745	MROH5_g9141.t1	MROH5
scaffold_23	48881495	48886183	MROH6_g9163.t1	MROH6
scaffold_23	29279919	29356049	MTBP_g9051.t1	MTBP
scaffold_23	8204647	8226225	MTEF3_g8949.t1	MTEF3
scaffold_23	4378038	4487610	MTG8_g8921.t1	RUNX1T1
scaffold_23	32779123	32936931	MTSS1_g9078.t1	MTSS1
scaffold_23	35465745	35470869	MSTRG.9098.1	MYC
scaffold_23	35466604	35470869	MSTRG.9098.3	MYC
scaffold_23	35467960	35470869	MYC_g9085.t1	MYC
scaffold_23	2527865	2562829	MSTRG.8896.6	NBN
scaffold_23	2511935	2562829	NBN_g8910.t1	NBN
scaffold_23	12894433	12912078	NCALD_g8979.t1	NCALD
scaffold_23	12894433	12912210	NCALD_g8979.t2	NCALD
scaffold_23	40131076	40167100	MSTRG.9119.1	NDRG1
scaffold_23	40110794	40130862	NDRG1_g9106.t1	NDRG1
scaffold_23	32769118	32775998	NDUB9_g9077.t1	NDUB9
scaffold_23	7104238	7135663	NDUF6_g8944.t1	NDUF6
scaffold_23	6869518	6870099	DUT_g8940.t1	DUT_g8940.t1
scaffold_23	6865082	6865954	FV1_g8938.t1	FV1_g8938.t1
scaffold_23	37225821	37236785	GSDMA_g9089.t1	GSDMA_g9089.t1
scaffold_23	1062968	1063177	MSTRG.8881.1	MSTRG.8881.1
scaffold_23	1490172	1944239	MSTRG.8890.2	MSTRG.8890.2
scaffold_23	2237913	2238119	MSTRG.8892.1	MSTRG.8892.1
scaffold_23	1280988	1319169	MSTRG.8893.5	MSTRG.8893.5
scaffold_23	3140920	3141219	MSTRG.8902.1	MSTRG.8902.1
scaffold_23	6581574	6581788	MSTRG.8924.1	MSTRG.8924.1
scaffold_23	8551402	8551696	MSTRG.8941.1	MSTRG.8941.1
scaffold_23	9132439	9133105	MSTRG.8952.1	MSTRG.8952.1

scaffold_23	9453995	9461046	MSTRG.8959.3	MSTRG.8959.3
scaffold_23	11663843	11722293	MSTRG.8984.1	MSTRG.8984.1
scaffold_23	12422605	12422824	MSTRG.8985.1	MSTRG.8985.1
scaffold_23	16393257	16393474	MSTRG.9008.1	MSTRG.9008.1
scaffold_23	16736804	16737008	MSTRG.9010.1	MSTRG.9010.1
scaffold_23	15939799	16014783	MSTRG.9013.1	MSTRG.9013.1
scaffold_23	15939819	16003725	MSTRG.9014.1	MSTRG.9014.1
scaffold_23	17646164	17646370	MSTRG.9018.1	MSTRG.9018.1
scaffold_23	18693219	18714478	MSTRG.9021.2	MSTRG.9021.2
scaffold_23	19707553	19732461	MSTRG.9024.1	MSTRG.9024.1
scaffold_23	23387198	23387425	MSTRG.9041.1	MSTRG.9041.1
scaffold_23	28910057	28918434	MSTRG.9058.2	MSTRG.9058.2
scaffold_23	28955838	28957704	MSTRG.9061.1	MSTRG.9061.1
scaffold_23	31416523	31416736	MSTRG.9068.1	MSTRG.9068.1
scaffold_23	31456170	31456382	MSTRG.9069.1	MSTRG.9069.1
scaffold_23	31505368	31505580	MSTRG.9071.1	MSTRG.9071.1
scaffold_23	33087232	33087440	MSTRG.9087.1	MSTRG.9087.1
scaffold_23	32814302	32937298	MSTRG.9088.3	MSTRG.9088.3
scaffold_23	33173262	33186848	MSTRG.9089.1	MSTRG.9089.1
scaffold_23	35414336	35414545	MSTRG.9095.1	MSTRG.9095.1
scaffold_23	35513317	35752690	MSTRG.9104.5	MSTRG.9104.5
scaffold_23	35671038	35743029	MSTRG.9104.8	MSTRG.9104.8
scaffold_23	36728767	36728978	MSTRG.9109.1	MSTRG.9109.1
scaffold_23	47824281	47854925	MSTRG.9140.3	MSTRG.9140.3
scaffold_23	47824358	47854925	MSTRG.9140.4	MSTRG.9140.4
scaffold_23	48021654	48021861	MSTRG.9141.1	MSTRG.9141.1
scaffold_23	48595541	48597081	MSTRG.9148.6	MSTRG.9148.6
scaffold_23	48978806	48991008	MSTRG.9168.2	MSTRG.9168.2
scaffold_23	49598962	49599177	MSTRG.9195.1	MSTRG.9195.1
scaffold_23	49706178	49737277	MSTRG.9209.6	MSTRG.9209.6
scaffold_23	29239154	29279578	RM13_g9050.t1	RM13_g9050.t1
scaffold_23	27528173	27798714	SAM12_g9037.t1	SAM12_g9037.t1
scaffold_23	9639008	9639283	NP1L2_g8956.t1	NP1L2
scaffold_23	9907317	9975474	NPAL2_g8960.t1	NIPAL2
scaffold_23	31866743	31882962	NTAQ1_g9067.t1	NTAQ1
scaffold_23	49314030	49328746	OPLA_g9187.t1	OPLA
scaffold_23	10522395	10525144	OSR2_g8965.t2	OSR2
scaffold_23	3613493	3628378	OTU6B_g8918.t1	OTU6B
scaffold_23	48916158	48920649	P5CR3_g9167.t1	PYCR3
scaffold_23	47385468	47385878	P63_g9136.t1	P63
scaffold_23	12099164	12115604	PABP1_g8975.t1	PABPC1
scaffold_23	12097890	12115604	MSTRG.8973.1	PABPC1
scaffold_23	49247531	49255338	PAR10_g9183.t1	PARP10
scaffold_23	6106830	6115290	MSTRG.8919.2	PDP1
scaffold_23	6107162	6113301	PDP1_g8930.t1	PDP1

scaffold_23	39660982	39736441	MSTRG.9116.1	PHF20L1
scaffold_23	39660982	39736441	MSTRG.9116.2	PHF20L1
scaffold_23	19542478	19692351	PKHL1_g9019.t1	PKHD1L1
scaffold_23	48064183	48087497	PLCH1_g9150.t1	PLCH1
scaffold_23	49190399	49220634	MSTRG.9179.1	PLEC
scaffold_23	49190399	49227089	MSTRG.9179.3	PLEC
scaffold_23	49190409	49245491	MSTRG.9179.4	PLEC
scaffold_23	49190409	49218916	MSTRG.9179.5	PLEC
scaffold_23	49191622	49218916	PLEC_g9180.t1	PLEC
scaffold_23	49226183	49227089	PLEC_g9181.t1	PLEC
scaffold_23	7196224	7217722	MSTRG.8934.2	PLEKHF2
scaffold_23	40400374	40400574	PLPL8_g9110.t1	PNPLA8
scaffold_23	48888142	48892034	PNCB_g9164.t1	PNCB
scaffold_23	9849342	9878494	POP1_g8959.t1	POP1
scaffold_23	3522790	3571625	PP4P2_g8917.t2	PIP4P2
scaffold_23	43353904	43354104	PPE2_g9116.t1	PPE2
scaffold_23	49706146	49734283	MSTRG.9209.3	PPP1R16A
scaffold_23	49706152	49737277	MSTRG.9209.4	PPP1R16A
scaffold_23	49706152	49737277	MSTRG.9209.5	PPP1R16A
scaffold_23	1255536	1419199	PRKDC_g8905.t2	PRKDC
scaffold_23	49090092	49102570	PUF60_g9177.t1	PUF60
scaffold_23	6474907	6564230	RA54B_g8934.t1	RAD54B
scaffold_23	6530742	6535512	RA54B_g8934.t2	RAD54B
scaffold_23	26255467	26276535	RAD21_g9032.t1	RAD21
scaffold_23	5951531	5954495	RB12B_g8928.t1	RBM12B
scaffold_23	5950736	5958515	MSTRG.8917.2	RBM12B
scaffold_23	5951410	5958515	MSTRG.8917.4	RBM12B
scaffold_23	19718160	19732461	RCAS1_g9020.t1	RCAS1
scaffold_23	49741381	49747575	RECQ4_g9216.t1	RECQL4
scaffold_23	49741125	49747575	MSTRG.9208.1	RECQL4
scaffold_23	49741163	49747575	MSTRG.9208.2	RECQL4
scaffold_23	49761468	49844827	RHG39_g9220.t1	ARHGAP39
scaffold_23	48688313	48700338	RHPN1_g9160.t1	RHPN1
scaffold_23	9831360	9844564	RIDA_g8958.t1	RIDA
scaffold_23	14458436	14931889	RIMS2_g8991.t1	RIMS2
scaffold_23	14979595	15067707	RIMS2_g8994.t1	RIMS2
scaffold_23	2342651	2374791	RIPK2_g8908.t1	RIPK2
scaffold_23	13341984	13380304	RIR2B_g8980.t1	RRM2B
scaffold_23	50022746	50025009	RL8_g9227.t1	RL8
scaffold_23	32714591	32726265	RN139_g9075.t1	RNF139
scaffold_23	11664641	11696906	RN19A_g8972.t1	RNF19A
scaffold_23	50022479	50025009	MSTRG.9220.1	RPL8
scaffold_23	39535934	39536136	MSTRG.9115.1	RSPO1
scaffold_23	18204409	18236466	MSTRG.9019.2	RSPO2
scaffold_23	18206152	18364308	RSPO2_g9009.t1	RSPO2

scaffold_23	49648047	49652463	S39A4_g9206.t1	SLC39A4
scaffold_23	46676062	46721879	S45A4_g9129.t1	SLC45A4
scaffold_23	49066012	49089969	SCRIB_g9176.t1	SCRIB
scaffold_23	49556759	49559866	SCRT1_g9201.t1	SCRT1
scaffold_23	8445708	8548527	SDC2_g8951.t1	SDC2
scaffold_23	49360941	49365585	SHRPN_g9192.t1	SHARPIN
scaffold_23	49706121	49726902	SHSA8_g9213.t1	SHSA8
scaffold_23	40303158	40315824	SIA4A_g9108.t1	ST3GAL1
scaffold_23	39923883	39940044	SLAP1_g9103.t1	SLA
scaffold_23	49583366	49586032	MSTRG.9197.3	SLC52A2
scaffold_23	49584138	49586032	S52A1_g9203.t1	SLC52A2
scaffold_23	29598258	29599130	SNTB1_g9052.t1	SNTB1
scaffold_23	18388177	18412905	SNX15_g9010.t1	SNX15
scaffold_23	11569728	11654057	SPAG1_g8971.t1	SPAG1
scaffold_23	49287695	49309469	SPERI_g9186.t1	SPERI
scaffold_23	1464359	1944239	SPIDR_g8907.t1	SPIDR
scaffold_23	15253246	15253450	MSTRG.9004.1	SPRY3
scaffold_23	19742946	19811771	SYBU_g9021.t1	SYBU
scaffold_23	7016233	7022100	T53I1_g8943.t1	TP53INP1
scaffold_23	28677679	28696453	TAF2_g9044.t1	TAF2
scaffold_23	32727208	32769039	TATD1_g9076.t1	TATD1
scaffold_23	32727208	32769039	MSTRG.9085.2	TATDN1
scaffold_23	31604228	31680619	TBC31_g9062.t1	TBC1D31
scaffold_23	25190571	25190918	TES_g9028.t1	TES
scaffold_23	39742930	39914327	THYG_g9102.t1	THYG
scaffold_23	39952989	40011939	THYG_g9104.t1	THYG
scaffold_23	48908996	48910916	TIGD5_g9166.t1	TIGD5
scaffold_23	48908834	48910916	TIGD5_g9166.t2	TIGD5
scaffold_23	3184917	3205729	TMM64_g8914.t1	TMEM64
scaffold_23	32599302	32646078	TMM65_g9073.t1	TMEM65
scaffold_23	19003597	19004517	TMM74_g9013.t1	TMEM74
scaffold_23	49667508	49668959	MSTRG.9203.9	TONSL
scaffold_23	49662225	49675054	TONSL_g9208.t1	TONSL
scaffold_23	48654514	48677561	TOP1M_g9159.t1	TOP1M
scaffold_23	46873891	46882041	TP4A3_g9131.t1	PTP4A3
scaffold_23	46873882	46882041	TP4A3_g9131.t2	PTP4A3
scaffold_23	7007120	7029515	MSTRG.8932.2	TP53INP1
scaffold_23	7011537	7029515	MSTRG.8932.5	TP53INP1
scaffold_23	7016233	7029515	MSTRG.8932.6	TP53INP1
scaffold_23	45400247	45401360	TPPC9_g9123.t1	TPPC9
scaffold_23	45827217	46035889	TPPC9_g9123.t2	TPPC9
scaffold_23	28053952	28080244	TR11B_g9039.t1	TR11B
scaffold_23	45563870	46044477	MSTRG.9127.2	TRAPPC9
scaffold_23	33559768	33567220	TRIB1_g9083.t1	TRIB1
scaffold_23	24950681	25149386	TRPS1_g9026.t1	TRPS1

scaffold_23	47606873	47687169	TSNA1_g9138.t1	TSNARE1
scaffold_23	47676804	47727628	MSTRG.9137.5	TSNARE1
scaffold_23	32696413	32697765	TYW2_g9074.t1	TYW2
scaffold_23	1103154	1152415	UB2V2_g8903.t1	UBE2V2
scaffold_23	13400743	13525005	MSTRG.8991.1	UBR5
scaffold_23	13400743	13525005	MSTRG.8991.2	UBR5
scaffold_23	13402647	13525005	UBR5_g8981.t1	UBR5
scaffold_23	26150709	26155849	UTP23_g9031.t1	UTP23
scaffold_23	49776233	49777925	VATL_g9221.t1	ATP6V0C
scaffold_23	6583120	6641630	VIR_g8935.t1	VIR
scaffold_23	10594892	11226822	VP13B_g8966.t1	VP13B
scaffold_23	49656640	49675054	MSTRG.9203.3	VPS28
scaffold_23	49656833	49662215	MSTRG.9203.4	VPS28
scaffold_23	49656833	49675054	MSTRG.9203.6	VPS28
scaffold_23	49657048	49660381	VPS28_g9207.t1	VPS28
scaffold_23	33210041	33268269	WASC5_g9081.t1	WASC5
scaffold_23	49369307	49377960	WDR97_g9194.t1	WDR97
scaffold_23	12256231	12285827	MSTRG.8976.1	YWHAZ
scaffold_23	12256231	12285827	MSTRG.8976.2	YWHAZ
scaffold_23	48751558	48856565	ZC3H3_g9162.t1	ZC3H3
scaffold_23	41437425	41477819	ZDBF2_g9114.t1	ZDBF2
scaffold_23	41286613	41374628	ZFAT_g9112.t1	ZFAT
scaffold_23	48584111	48597081	MSTRG.9148.2	ZFP41
scaffold_23	48584111	48597081	MSTRG.9148.3	ZFP41
scaffold_23	48587489	48588246	ZFP41_g9155.t1	ZFP41
scaffold_23	31760919	31763768	ZHX1_g9065.t1	ZHX1
scaffold_23	31521499	31521705	MSTRG.9073.1	ZHX2
scaffold_23	31510275	31512795	ZHX2_g9060.t1	ZHX2
scaffold_23	50060041	50067092	ZN250_g9230.t1	ZNF250
scaffold_23	48943136	48949615	ZN251_g9169.t2	ZNF251
scaffold_23	49939455	49975934	ZN251_g9223.t1	ZNF251
scaffold_23	48966869	48968938	ZN623_g9171.t1	ZNF623
scaffold_23	48616709	48622256	ZN696_g9158.t1	ZNF696
scaffold_23	12481628	12483590	ZN706_g8977.t1	ZNF706
scaffold_23	48978678	48989093	ZN707_g9172.t1	ZNF707
scaffold_23	50096975	50110072	ZN252_g9231.t1	ZNF16
scaffold_23	50136752	50138815	MSTRG.9228.4	ZNF252P
scaffold_23	50130704	50153546	ZN252_g9231.t2	ZNF252P
scaffold_23	50026429	50047316	MSTRG.9223.3	ZNF34
scaffold_23	50044635	50047316	ZNF34_g9229.t1	ZNF34
scaffold_23	48963908	48970992	MSTRG.9164.3	ZNF623
scaffold_23	49982621	50000559	MSTRG.9218.2	ZNF7
scaffold_23	49983371	50000559	MSTRG.9218.3	ZNF7
scaffold_24	2051272	2152616	2A5G_g9259.t1	PPP2R5C
scaffold_24	11432492	11439132	AACT_g9359.t1	SERPINA3

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scaffold_24	29480190	29493890	MSTRG.9496.1	ABCD4
scaffold_24	29480283	29489097	MSTRG.9496.3	ABCD4
scaffold_24	30219694	30222688	MSTRG.9519.2	ACOT1
scaffold_24	30127236	30132723	ACOT2_g9508.t1	ACOT2
scaffold_24	30219298	30224640	ACOT2_g9510.t1	ACOT2
scaffold_24	30067720	30070723	ACOT4_g9507.t1	ACOT4
scaffold_24	34328239	34423544	ACTN1_g9548.t1	ACTN1
scaffold_24	28849748	28863402	ACYP1_g9475.t1	ACYP1
scaffold_24	32823234	32825473	ADA20_g9529.t1	ADAM20
scaffold_24	32950766	32953009	ADA20_g9532.t1	ADAM20
scaffold_24	32852499	32878453	ADA21_g9530.t1	ADAM21
scaffold_24	26215453	26316797	ADCK1_g9437.t1	ADCK1
scaffold_24	26576013	26584286	AHSA1_g9443.t1	AHSA1
scaffold_24	38300264	38301454	AKAP5_g9585.t1	AKAP5
scaffold_24	38300264	38301553	AKAP5_g9585.t2	AKAP5
scaffold_24	4720132	4743145	AKT1_g9310.t1	AKT1
scaffold_24	26388572	26414382	ALKB1_g9440.t1	ALKBH1
scaffold_24	26388574	26414382	MSTRG.9423.2	ALKBH1
scaffold_24	2997904	3007821	AMNLS_g9276.t1	AMN
scaffold_24	27128343	27150766	ANGE1_g9458.t1	ANGEL1
scaffold_24	2632138	2633150	ANKR9_g9271.t1	ANKRD9
scaffold_24	14137674	14193402	MSTRG.9363.1	ANKRD45
scaffold_24	14137762	14194655	MSTRG.9363.4	ANKRD45
scaffold_24	44514458	44532102	AP5M1_g9642.t1	AP5M1
scaffold_24	29175852	29197687	AREL1_g9486.t1	AREL1
scaffold_24	29171277	29197687	MSTRG.9491.3	AREL1
scaffold_24	29197690	29197986	TOM1_g9487.t1	AREL1
scaffold_24	35536514	35566009	ARGI2_g9555.t1	ARG2
scaffold_24	43793363	43918017	ARMD4_g9636.t1	ARMH4
scaffold_24	43741336	43761845	ARP10_g9635.t1	ACTR10
scaffold_24	3771668	3858257	ASPP1_g9296.t1	PPP1R13B
scaffold_24	46367790	46408005	MSTRG.9706.3	ATG14
scaffold_24	9866996	9938208	ATG2B_g9344.t1	ATG2B
scaffold_24	3918103	3927873	ATP68_g9297.t1	ATP5MJ
scaffold_24	13910753	13944914	ATX3_g9393.t1	ATXN3
scaffold_24	3617796	3619167	BAG5_g9290.t3	BAG5
scaffold_24	46367725	46405389	BAKOR_g9651.t1	ATG14
scaffold_24	28454938	28475873	BATF_g9469.t1	BATF
scaffold_24	29707469	29745828	BBOF1_g9497.t1	BBOF1
scaffold_24	5080137	5082937	BTBD6_g9324.t1	BTBD6
scaffold_24	5079987	5082937	BTBD6_g9324.t2	BTBD6
scaffold_24	12921400	12972453	BTBD7_g9379.t1	BTBD7
scaffold_24	5310795	5343617	MSTRG.9317.1	TEDC1
scaffold_24	4796877	4806602	C170B_g9312.t1	CEP170B

scaffold_24	4806970	4819322	C170B_g9313.t1	CEP170B
scaffold_24	2172164	2182359	CA141_g9261.t1	C1ORF141
scaffold_24	15317545	15324698	CALM_g9404.t1	CALM1
scaffold_24	42529334	42586533	CC175_g9617.t2	CCDC175
scaffold_24	41074425	41075486	CC50B_g9603.t1	TMEM30B
scaffold_24	34057	111905	CC85C_g9236.t1	CCDC85C
scaffold_24	16898	30647	CCNK_g9235.t1	CCNK
scaffold_24	4913033	4922513	CDCA4_g9317.t1	CDCA4
scaffold_24	47246812	47261407	CDKN3_g9662.t1	CDKN3
scaffold_24	23543486	23694641	CE128_g9430.t1	CEP128
scaffold_24	47167950	47187840	CGRF1_g9659.t1	CGRRF1
scaffold_24	37910451	37925399	CHUR_g9577.t1	CHURC1
scaffold_24	2507309	2523673	CINP_g9268.t1	CINP
scaffold_24	3578510	3581690	MSTRG.9278.1	CKB
scaffold_24	4887302	4904799	CLBA1_g9316.t1	CLBA1
scaffold_24	10802804	10913608	CLMN_g9354.t1	CLMN
scaffold_24	10802740	10923363	MSTRG.9331.1	CLMN
scaffold_24	13253602	13264830	CMGA_g9385.t1	CHGA
scaffold_24	47227845	47240365	CNIH1_g9661.t1	CNIH1
scaffold_24	3621345	3655837	COA8_g9291.t1	COA8
scaffold_24	884223	884455	MSTRG.9248.1	COP1
scaffold_24	29781748	29799001	COQ6_g9499.t1	COQ6
scaffold_24	33089920	33113292	COX16_g9534.t1	COX16
scaffold_24	33090169	33113292	COX16_g9534.t2	COX16
scaffold_24	13864396	13887610	CPSF2_g9391.t1	CPSF2
scaffold_24	5305762	5307419	MSTRG.9313.1	CRIP1
scaffold_24	5292813	5297625	CRIP2_g9331.t1	CRIP2
scaffold_24	26762816	26796573	CSC1_g9452.t1	TMEM63C
scaffold_24	42696499	42791929	DAAM1_g9622.t1	DAAM1
scaffold_24	42693632	42857063	MSTRG.9679.2	DAAM1
scaffold_24	43378940	43387119	DACT1_g9626.t1	DACT1
scaffold_24	14457011	14584438	DAPLE_g9399.t1	CCDC88C
scaffold_24	30720769	30738280	DCAF4_g9518.t1	DCAF4
scaffold_24	34150296	34259504	DCAF5_g9547.t1	DCAF5
scaffold_24	5162093	5162434	DCUP_g9327.t1	DCUP
scaffold_24	48355811	48459365	DDHD1_g9665.t1	DDHD1
scaffold_24	48355811	48464336	MSTRG.9730.3	DDHD1
scaffold_24	48356163	48464336	MSTRG.9730.6	DDHD1
scaffold_24	48356212	48464336	MSTRG.9730.7	DDHD1
scaffold_24	48459366	48464336	MSTRG.9730.9	DDHD1
scaffold_24	12253168	12271016	DDX24_g9369.t1	DDX24
scaffold_24	12253039	12271016	DDX24_g9369.t2	DDX24
scaffold_24	565880	566737	DEGS2_g9242.t1	DEGS2
scaffold_24	41995785	42012834	DHRS7_g9612.t1	DHRS7
scaffold_24	10981408	11023287	DICER_g9355.t1	DCR1

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scaffold_24	28986106	29011952	MSTRG.9478.2	DLST
scaffold_24	29996382	30029671	DNAL1_g9504.t1	DNAL1
scaffold_24	30767371	31021603	DPF3_g9519.t1	DPF3
scaffold_24	31718716	31767974	DRC1_g9522.t1	DRC1
scaffold_24	43396263	43396882	DSG1B_g9628.t1	DSG1
scaffold_24	2188402	2262155	DYHC1_g9262.t1	DYNC1H1
scaffold_24	26686974	26687183	DYLT1_g9448.t1	DYNLT1
scaffold_24	15704291	15845046	EFC11_g9410.t1	EFCAB11
scaffold_24	28899953	28905757	EI2BB_g9477.t1	EI2BB
scaffold_24	3420132	3429611	MSTRG.9276.1	EIF5
scaffold_24	29964100	29974781	MSTRG.9511.3	MIDEAS
scaffold_24	264437	381316	EMAL1_g9239.t1	EML1
scaffold_24	16724356	16871723	EMAL5_g9415.t1	EML5
scaffold_24	29763877	29779526	ENTP5_g9498.t1	ENTPD5
scaffold_24	29746049	29779526	MSTRG.9505.3	ENTPD5
scaffold_24	29761887	29779526	MSTRG.9505.5	ENTPD5
scaffold_24	28185341	28192263	ERG28_g9465.t1	ERG28
scaffold_24	28327324	28328525	MSTRG.9458.2	ERG28
scaffold_24	33900913	33918370	ERH_g9544.t1	ERH
scaffold_24	48774872	48824663	ERO1A_g9670.t1	ERO1A
scaffold_24	38481198	38524959	ESR2_g9589.t2	ESR2
scaffold_24	399877	561178	EVL_g9240.t1	EVL
scaffold_24	3252014	3261313	EX3L2_g9281.t1	EX3L2
scaffold_24	34053181	34093874	EXD2_g9546.t1	EXD2
scaffold_24	34051911	34150063	MSTRG.9578.4	EXD2
scaffold_24	34051911	34150063	MSTRG.9578.5	EXD2
scaffold_24	44532773	44583712	EXOC5_g9643.t1	EXO5
scaffold_24	29799288	29811027	F161B_g9500.t1	FAM161B
scaffold_24	4649512	4678563	MSTRG.9290.2	FAAP100
scaffold_24	35910423	35923057	MSTRG.9605.2	GARIN2
scaffold_24	14045659	14111448	FBLN5_g9395.t1	FBLN5
scaffold_24	46415398	46417536	FBX34_g9652.t1	FBXO34
scaffold_24	28302157	28302363	MSTRG.9455.1	FBXL14
scaffold_24	29135230	29155594	FCF1_g9485.t1	FCF1
scaffold_24	48533583	48621871	FERM2_g9666.t1	FERMT2
scaffold_24	19420885	19425647	MSTRG.9399.2	FLRT1
scaffold_24	28197807	28250288	FLVC2_g9466.t1	FLVCR2
scaffold_24	28283417	28322948	FLVC2_g9467.t1	FLVCR2
scaffold_24	28370451	28376928	FLVC2_g9467.t2	FLVCR2
scaffold_24	28381021	28429700	FLVC2_g9468.t1	FLVCR2
scaffold_24	37803498	37864696	FNTB_g9575.t1	FNTB
scaffold_24	28685125	28687571	FOS_g9471.t1	FOS
scaffold_24	16148229	16210607	FOXN3_g9412.t2	FOXN3
scaffold_24	16226417	16377042	FOXN3_g9413.t1	FOXN3

scaffold_24	16144375	16377042	MSTRG.9381.1	FOXN3
scaffold_24	16144407	16377042	MSTRG.9381.3	FOXN3
scaffold_24	37234917	37530995	MSTRG.9607.1	FUT8
scaffold_24	48828065	48911459	G137C_g9671.t1	G137C
scaffold_24	17393873	17453461	GALC_g9422.t2	GALC
scaffold_24	33942846	34034699	MSTRG.9576.1	GALNT16
scaffold_24	46816789	46868277	GCH1_g9657.t1	GCH1
scaffold_24	35908544	36170683	GEPH_g9565.t1	GEPH
scaffold_24	36186734	36594764	GEPH_g9566.t1	GEPH
scaffold_24	10606116	10615968	GLRX5_g9351.t1	GLRX5
scaffold_24	33946186	34034380	GLT16_g9545.t1	GLT16
scaffold_24	47198182	47212790	GMFB_g9660.t1	GMFB
scaffold_24	48672540	48692288	GNA1_g9667.t1	GNA1
scaffold_24	13320745	13354170	GOGA5_g9386.t1	GOGA5
scaffold_24	13004779	13007608	GON7_g9381.t1	GON7
scaffold_24	42631386	42632873	GP135_g9621.t1	GP135
scaffold_24	27660257	27706472	GPT2L_g9461.t1	GPT2L
scaffold_24	9848468	9851523	GSKIP_g9343.t1	GSKIP
scaffold_24	30236448	30258591	HEAT4_g9511.t1	HEAT4
scaffold_24	40640989	40682577	HIF1A_g9601.t1	HIF1A
scaffold_24	142802	166866	HIPL1_g9237.t1	HHIPL1
scaffold_24	112440	166866	HIPL1_g9237.t3	HHIPL1
scaffold_24	2290394	2294712	HS90A_g9264.t1	HS90A
scaffold_24	38234880	38236799	HSP72_g9582.t1	HSPA1A
scaffold_24	11941273	11946259	I27L2_g9365.t1	IFI27L2
scaffold_24	26969610	26971943	I2BPL_g9456.t1	I2BPL
scaffold_24	26969673	26971943	I2BPL_g9456.t2	I2BPL
scaffold_24	3422619	3429611	IF5_g9285.t1	EIF5
scaffold_24	27775941	27853620	IFT43_g9462.t1	IFT43
scaffold_24	4661419	4664054	INF2_g9307.t1	INF2
scaffold_24	4666909	4678563	MSTRG.9290.4	INF2
scaffold_24	11456585	11460548	IPSP_g9360.t1	IPSP
scaffold_24	26972105	26972462	MSTRG.9446.1	IRF2BPL
scaffold_24	29346122	29347349	ISCA2_g9489.t1	ISCA2
scaffold_24	29345253	29347349	MSTRG.9495.2	ISCA2
scaffold_24	13071015	13249104	ITPK1_g9384.t1	ITPK1
scaffold_24	13071015	13249601	MSTRG.9353.1	ITPK1
scaffold_24	4999400	5026685	JAG2_g9320.t1	JAG2
scaffold_24	28532002	28559939	JDP2_g9470.t1	JDP2
scaffold_24	28531249	28569181	MSTRG.9462.1	JDP2
scaffold_24	42587140	42614077	JKAMP_g9618.t1	JKAMP
scaffold_24	42613962	42614180	SEC31_g9619.t1	JKAMP
scaffold_24	9784606	9842428	KAD7_g9342.t1	AK7
scaffold_24	1293866	1297911	MOT14_g9252.t1	KATNAL1
scaffold_24	15495061	15600148	KCNKD_g9408.t1	KCNKD

scaffold_24	3697847	3738401	KLC1_g9292.t1	KLC1
scaffold_24	3675983	3742081	MSTRG.9286.3	KLC1
scaffold_24	3697847	3739802	MSTRG.9286.7	KLC1
scaffold_24	40828722	41043483	KPCL_g9602.t1	KPCL
scaffold_24	14747495	14913413	KS6A5_g9401.t1	RPS6KA5
scaffold_24	46159604	46252605	KTN1_g9649.t1	KTN1
scaffold_24	46139108	46241071	MSTRG.9707.2	KTN1
scaffold_24	46139132	46241071	MSTRG.9707.6	KTN1
scaffold_24	46614684	46626519	LEG3_g9654.t1	LEG3
scaffold_24	37952281	37998920	LFG2_g9578.t1	FAIM2
scaffold_24	13400856	13427128	LGMN_g9387.t1	LGMN
scaffold_24	29577966	29686557	LIN52_g9495.t1	LIN52
scaffold_24	2264744	2269118	VAV3_g9263.t1	LOC101389474
scaffold_24	6541	16897	LOC000000115_g9234.t1	LOC102149190
scaffold_24	30295382	30455710	MSTRG.9526.2	LOC106801183
scaffold_24	30295390	30455710	MSTRG.9526.3	LOC106801183
scaffold_24	30295404	30455710	MSTRG.9526.4	LOC124903090
scaffold_24	27091961	27119676	LR74A_g9457.t1	LR74A
scaffold_24	24023025	24023333	LSM3_g9432.t1	LSM3
scaffold_24	29240759	29340266	LTBP2_g9488.t1	LTBP2
scaffold_24	32565771	32637708	M3K9_g9527.t1	MAP3K9
scaffold_24	26691230	26701396	MAAI_g9449.t1	GSTZ1
scaffold_24	3461558	3565569	MARK3_g9286.t1	MARK3
scaffold_24	3460966	3565569	MSTRG.9277.2	MARK3
scaffold_24	41324492	41502706	MAT1_g9606.t1	MAT1
scaffold_24	37765690	37789273	MAX_g9574.t1	MAX
scaffold_24	678313	690829	MCATL_g9244.t1	MCATL
scaffold_24	29963633	29983584	MDEAS_g9502.t1	MDEAS
scaffold_24	32789093	32793627	MSTRG.9561.2	MED6
scaffold_24	16925713	16925943	MFSD1_g9417.t1	MFSD1
scaffold_24	28866245	28892190	MLH3_g9476.t2	MLH3
scaffold_24	29687134	29707010	MMSA_g9496.t1	ALDH6A1
scaffold_24	29687044	29707010	MMSA_g9496.t2	ALDH6A1
scaffold_24	13022441	13022977	MOAP1_g9383.t1	MOAP1
scaffold_24	2410817	2469828	MOK_g9266.t1	MOK
scaffold_24	3011791	3127675	MRCKB_g9277.t1	CDC42BPB
scaffold_24	5243463	5288727	MTA1_g9330.t1	MTA1
scaffold_24	44415576	44438165	MSTRG.9690.1	NAA30
scaffold_24	44421648	44437820	NAA30_g9640.t1	NAA30
scaffold_24	13896061	13904515	NDUB1_g9392.t1	NDUB1
scaffold_24	28800276	28837248	NEK9_g9473.t1	NEK9
scaffold_24	26748758	26752814	NGB_g9451.t1	NGB
scaffold_24	32556741	32565097	3BP5L_g9526.t1	3BP5L_g9526.t1
scaffold_24	10188769	10189053	ACDSB_g9349.t1	ACDSB_g9349.t1
scaffold_24	36395337	36395993	CC127_g9567.t1	CC127_g9567.t1

scaffold_24	12817020	12819238	DYH14_g9377.t1	DYH14_g9377.t1
scaffold_24	38433539	38462947	INT10_g9588.t1	INT10_g9588.t1
scaffold_24	10720341	10720811	LOC000000116_g9353.t1	LOC000000116_g9353.t1
scaffold_24	351984	352204	MSTRG.9238.1	MSTRG.9238.1
scaffold_24	2288899	2295403	MSTRG.9254.1	MSTRG.9254.1
scaffold_24	5241355	5243153	MSTRG.9311.3	MSTRG.9311.3
scaffold_24	5912896	5913109	MSTRG.9316.1	MSTRG.9316.1
scaffold_24	8359513	8359729	MSTRG.9319.1	MSTRG.9319.1
scaffold_24	11430724	11441083	MSTRG.9332.1	MSTRG.9332.1
scaffold_24	11430734	11440209	MSTRG.9332.2	MSTRG.9332.2
scaffold_24	10958487	11026556	MSTRG.9334.2	MSTRG.9334.2
scaffold_24	11941199	11943495	MSTRG.9337.1	MSTRG.9337.1
scaffold_24	11943814	11946259	MSTRG.9337.6	MSTRG.9337.6
scaffold_24	12243490	12251483	MSTRG.9343.5	MSTRG.9343.5
scaffold_24	14680710	14681077	MSTRG.9370.1	MSTRG.9370.1
scaffold_24	15384767	15430753	MSTRG.9379.1	MSTRG.9379.1
scaffold_24	15384767	15430753	MSTRG.9379.2	MSTRG.9379.2
scaffold_24	15819665	15819895	MSTRG.9384.1	MSTRG.9384.1
scaffold_24	16684101	16684310	MSTRG.9387.1	MSTRG.9387.1
scaffold_24	21429110	21473682	MSTRG.9402.1	MSTRG.9402.1
scaffold_24	26507374	26507605	MSTRG.9432.1	MSTRG.9432.1
scaffold_24	28241939	28242251	MSTRG.9453.1	MSTRG.9453.1
scaffold_24	28311997	28312215	MSTRG.9456.1	MSTRG.9456.1
scaffold_24	28754919	28762361	MSTRG.9466.2	MSTRG.9466.2
scaffold_24	28854957	28863402	MSTRG.9473.4	MSTRG.9473.4
scaffold_24	29205123	29205527	MSTRG.9485.1	MSTRG.9485.1
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scaffold_24	31240380	31240586	MSTRG.9545.1	MSTRG.9545.1
scaffold_24	31428059	31428287	MSTRG.9548.1	MSTRG.9548.1
scaffold_24	31454707	31454932	MSTRG.9549.1	MSTRG.9549.1
scaffold_24	31528315	31528516	MSTRG.9550.1	MSTRG.9550.1
scaffold_24	31566518	31566718	MSTRG.9551.1	MSTRG.9551.1
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scaffold_24	40376742	40376953	MSTRG.9634.1	MSTRG.9634.1
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scaffold_24	41256844	41309632	MSTRG.9646.3	MSTRG.9646.3
scaffold_24	39395339	39396547	MSTRG.9649.1	MSTRG.9649.1
scaffold_24	40832167	40832373	MSTRG.9656.1	MSTRG.9656.1
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scaffold_24	43403841	43404056	MSTRG.9678.1	MSTRG.9678.1
scaffold_24	43530520	43530732	MSTRG.9681.1	MSTRG.9681.1

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scaffold_24	44565282	44565513	MSTRG.9699.1	MSTRG.9699.1
scaffold_24	48679247	48692288	MSTRG.9732.3	MSTRG.9732.3
scaffold_24	48678041	48737476	MSTRG.9733.2	MSTRG.9733.2
scaffold_24	48912124	49031340	MSTRG.9739.4	MSTRG.9739.4
scaffold_24	11650196	11654764	SPA11_g9362.t4	SPA11_g9362.t4
scaffold_24	23730861	23915389	ZFHX4_g9431.t2	ZFHX4_g9431.t2
scaffold_24	41258113	41303779	MSTRG.9646.4	NOTHING
scaffold_24	29347808	29355459	NPC2_g9490.t1	NPC2
scaffold_24	15384767	15429169	NRDE2_g9406.t1	NRDE2
scaffold_24	24471569	24472579	NRX3A_g9434.t1	NRX3A
scaffold_24	5030302	5038156	NUD14_g9321.t1	NUDT14
scaffold_24	30276110	30453548	NUMB_g9513.t1	NUMB
scaffold_24	26613047	26631190	NXRD1_g9445.t1	NXRD1
scaffold_24	28987533	29011952	ODO2_g9480.t1	ODO2
scaffold_24	14614478	14615563	OGR1_g9400.t1	OGR1
scaffold_24	14614448	14615563	OGR1_g9400.t2	OGR1
scaffold_24	12275575	12294341	OTUB2_g9370.t1	OTUB2
scaffold_24	44911419	44914147	PA2G3_g9644.t1	OTX2
scaffold_24	5148299	5215041	PACS2_g9326.t1	PACS2
scaffold_24	35803143	35859304	PALS1_g9564.t1	PALS1
scaffold_24	30207747	30208175	PARI_g9509.t1	PARPBP
scaffold_24	32307490	32485693	MSTRG.9556.2	PCNX1
scaffold_24	32308803	32485693	MSTRG.9556.4	PCNX1
scaffold_24	42027378	42081872	MSTRG.9667.3	PCNX4
scaffold_24	32314328	32414379	PCX1_g9525.t1	PCNX1
scaffold_24	42027754	42070087	PCX4_g9613.t1	PCNX4
scaffold_24	42027875	42070087	PCX4_g9613.t2	PCNX4
scaffold_24	45573397	45756358	PELI2_g9647.t1	PELI2
scaffold_24	36962157	36964773	PER2_g9569.t1	PER2
scaffold_24	44474024	44474365	PGBM_g9641.t1	HSPG2
scaffold_24	2816367	2931342	PI4KB_g9274.t1	PI4KB
scaffold_24	35580495	35589863	PIGH_g9556.t1	PIGH
scaffold_24	38067541	38073944	PKHG3_g9580.t1	PLEKHG3
scaffold_24	28941260	28959118	PLGF_g9478.t1	PLGF
scaffold_24	33818938	33844710	PLHD1_g9542.t1	PLEKHD1
scaffold_24	26701664	26742658	POMT2_g9450.t1	POMT2
scaffold_24	11982923	12071817	PP4R4_g9366.t1	PPP4R4
scaffold_24	1380485	1383374	PPBT_g9255.t1	PPBT
scaffold_24	41871677	41913000	MSTRG.9660.2	PPM1A
scaffold_24	41873291	41964100	PPM1A_g9611.t1	PPM1A
scaffold_24	30455902	30496493	PPN_g9514.t1	PAPLN
scaffold_24	39064410	39209059	MSTRG.9630.4	PPP2R5E
scaffold_24	12036209	12071250	MSTRG.9341.6	PPP4R4
scaffold_24	38194798	38228196	PPR36_g9581.t1	PPR36

scaffold_24	18187404	18188822	PRC2B_g9423.t1	PRC2B
scaffold_24	12515870	12574625	PRIMA_g9375.t1	PRIMA1
scaffold_24	29025802	29033972	PROX2_g9481.t1	PROX2
scaffold_24	48740205	48764709	PRS10_g9669.t1	PSMC6
scaffold_24	43707337	43731916	PSA3_g9634.t1	PSA3
scaffold_24	30509066	30577492	MSTRG.9528.4	PSEN1
scaffold_24	30513268	30573810	PSN1_g9515.t1	PSEN1
scaffold_24	17370683	17371705	PSYR_g9421.t1	GPR65
scaffold_24	16929783	17004334	PTN21_g9418.t1	PTPN21
scaffold_24	4681779	4700500	PURA1_g9308.t1	PURA1
scaffold_24	37874987	37896201	RAB15_g9576.t1	RAB15
scaffold_24	3279159	3279761	RAP2C_g9282.t1	RAP2C
scaffold_24	30590509	30633212	RBM25_g9516.t1	RBM25
scaffold_24	35496399	35513215	RDH11_g9553.t1	RDH11
scaffold_24	31101957	31166020	RGS6_g9520.t1	RGS6
scaffold_24	13435153	13558895	RIN3_g9388.t1	RIN3
scaffold_24	30258592	30260508	RIOX1_g9512.t1	RIOX1
scaffold_24	28970036	28983358	RPKL1_g9479.t1	RPS6KL1
scaffold_24	42270262	42399325	RTN1_g9615.t1	RTN1
scaffold_24	42474226	42501569	RTN1_g9616.t1	RTN1
scaffold_24	704535	723275	S2547_g9245.t1	S2547
scaffold_24	41250610	41309632	S38A6_g9604.t1	SLC38A6
scaffold_24	33853017	33900446	S39A9_g9543.t1	SLC39A9
scaffold_24	26633769	26645109	SAM15_g9446.t1	SAMD15
scaffold_24	46932082	46932282	MSTRG.9715.1	SAMD4A
scaffold_24	23010876	23060324	SE1L1_g9425.t1	SEL1L
scaffold_24	11697730	11709421	A1AT2_g9363.t1	SERPINA1
scaffold_24	7094561	7154163	SETD3_g9335.t1	SETD3
scaffold_24	38922313	38959287	SGPP1_g9591.t1	SGPP1
scaffold_24	15324419	15324862	SH2D6_g9405.t1	SH2D6
scaffold_24	31768786	32131190	MSTRG.9553.2	SIPA1L1
scaffold_24	31769899	32131190	MSTRG.9553.3	SIPA1L1
scaffold_24	31769899	31847631	MSTRG.9553.4	SIPA1L1
scaffold_24	31769945	32131190	MSTRG.9553.5	SIPA1L1
scaffold_24	4708683	4714073	SIVA_g9309.t1	SIVA1
scaffold_24	41510511	41519171	SIX4_g9607.t1	SIX4
scaffold_24	26380760	26388467	SLIRP_g9439.t1	SLIRP
scaffold_24	46934393	47143232	SMAG1_g9658.t1	SAMD4A
scaffold_24	40585294	40613448	SNPC1_g9599.t1	SNPC1
scaffold_24	29120975	29121364	SNUT2_g9484.t1	SNUT2
scaffold_24	26359632	26380695	MSTRG.9421.3	SNW1
scaffold_24	26355155	26380695	SNW1_g9438.t1	SNW1
scaffold_24	46701222	46702639	SOCS4_g9655.t1	SOCS3
scaffold_24	11527096	11537123	SPA12_g9361.t1	SPA12
scaffold_24	17015638	17063825	SPAT7_g9419.t1	SPATA7

scaffold_24	17027458	17058530	MSTRG.9398.2	SPATA7
scaffold_24	26584564	26608434	SPE39_g9444.t1	SPE39
scaffold_24	37998951	38062400	SPTB1_g9579.t1	SPTB1
scaffold_24	26449349	26550343	SPTC2_g9441.t1	SPTLC2
scaffold_24	33608859	33612223	SRSF5_g9539.t1	SRSF5
scaffold_24	2152610	2152867	STK16_g9260.t1	STK16
scaffold_24	23123930	23225859	STON2_g9427.t1	STON2
scaffold_24	48697182	48737476	STYX_g9668.t1	STYX
scaffold_24	33652910	33749520	MSTRG.9568.2	SUSD6
scaffold_24	33032302	33069696	SYJ2B_g9533.t1	SYNJ2BP
scaffold_24	29418144	29419747	SYN1L_g9491.t1	SYN1L
scaffold_24	38532542	38848489	MSTRG.9643.1	SYNE2
scaffold_24	38532713	38848489	MSTRG.9643.4	SYNE2
scaffold_24	38533677	38678330	SYNE2_g9590.t1	SYNE2
scaffold_24	10668523	10724533	SYNE3_g9352.t1	SYNE3
scaffold_24	40318437	40422715	SYT16_g9597.t1	SYT16
scaffold_24	728121	752751	SYWC_g9246.t1	SYWC
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scaffold_24	42614350	42624863	T3HPD_g9620.t1	L3HYPDH
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scaffold_24	46333716	46365165	TBPL2_g9650.t1	TBPL2
scaffold_24	2534927	2627427	TCPR2_g9269.t1	TCPR2
scaffold_24	2523765	2627427	MSTRG.9266.1	TECPR2
scaffold_24	2534034	2573580	MSTRG.9266.3	TECPR2
scaffold_24	23262401	23299213	TF2AA_g9428.t1	GTF2A1
scaffold_24	5059870	5076303	TF3B_g9323.t1	TF3B
scaffold_24	5083289	5128774	TF3B_g9325.t1	TF3B
scaffold_24	34483210	34489432	TISB_g9549.t1	TISB
scaffold_24	13020488	13021475	TM251_g9382.t1	TM251
scaffold_24	45052580	45115468	TM260_g9646.t1	TMEM260
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scaffold_24	28762612	28795329	TMEDA_g9472.t1	TMEDA
scaffold_24	3181701	3190550	TNAP2_g9280.t1	TNFAIP2
scaffold_24	43604284	43615534	TO20L_g9631.t1	TO20L
scaffold_24	23093728	23123819	TOPZ1_g9426.t1	TOPZ1
scaffold_24	2953319	2987179	TRAF3_g9275.t1	TRAF3
scaffold_24	13960572	14023048	TRIPB_g9394.t1	TRIPB
scaffold_24	41309824	41318914	TRM5_g9605.t1	TRMT5
scaffold_24	3587586	3594163	TRM61_g9288.t1	TRMT61A
scaffold_24	16634508	16685249	TTC8_g9414.t1	TTC8
scaffold_24	27881763	28180777	MSTRG.9460.1	TTLL5
scaffold_24	27882494	28180777	TTLL5_g9464.t1	TTLL5
scaffold_24	5038469	5040144	TTP_g9322.t1	ADAMTS13
scaffold_24	48920876	49031340	TXD16_g9672.t1	TXD16
scaffold_24	15600862	15703547	TYDP1_g9409.t1	TDP1

scaffold_24	636997	664444	TYY1_g9243.t1	YY1
scaffold_24	12990006	13004523	UBR7_g9380.t1	UBR7
scaffold_24	12590685	12816740	UNC79_g9376.t1	UNC79
scaffold_24	27159923	27175533	VASH1_g9459.t1	VASH1
scaffold_24	35782736	35797606	VATD_g9563.t1	ATP6V1D
scaffold_24	9439043	9517947	MSTRG.9321.2	VRK1
scaffold_24	9445330	9487110	VRK1_g9340.t1	VRK1
scaffold_24	29447990	29450110	VRTN_g9492.t1	VRTN
scaffold_24	35516165	35541191	MSTRG.9595.2	VTI1B
scaffold_24	35516580	35536243	VTI1B_g9554.t1	VTI1B
scaffold_24	46718587	46788841	WDHD1_g9656.t1	WDHD1
scaffold_24	2338959	2406610	MSTRG.9255.2	WDR20
scaffold_24	2338959	2406610	WDR20_g9265.t1	WDR20
scaffold_24	761986	899120	WDR25_g9247.t1	WDR25
scaffold_24	38997382	39039795	MSTRG.9628.2	WDR89
scaffold_24	3739800	3740547	XRCC3_g9293.t1	XRCC3
scaffold_24	3742969	3751222	XRCC3_g9294.t1	XRCC3
scaffold_24	29055881	29120767	YLPM1_g9482.t1	YLPM1
scaffold_24	29120768	29121364	YLPM1_g9483.t1	YLPM1
scaffold_24	38280121	38289414	ZBT25_g9584.t1	ZBTB25
scaffold_24	4751404	4752675	ZBT42_g9311.t1	ZBTB42
scaffold_24	38251245	38253404	ZBTB1_g9583.t1	ZBTB1
scaffold_24	4750829	4752675	MSTRG.9293.1	ZBTB42
scaffold_24	28841491	28848517	ZC21C_g9474.t1	ZC2HC1C
scaffold_24	16875893	16918187	ZC3HE_g9416.t1	ZC3H14
scaffold_24	3755090	3770241	ZFY21_g9295.t1	ZFYVE21
scaffold_24	30665562	30713351	ZFYV1_g9517.t1	ZFYVE1
scaffold_24	30665484	30713351	ZFYV1_g9517.t2	ZFYVE1
scaffold_24	3755090	3770241	MSTRG.9284.1	ZFYVE21
scaffold_24	29812852	29852504	ZN410_g9501.t1	ZNF410
scaffold_24	29852729	29859209	ZN410_g9501.t2	ZNF410
scaffold_24	29860974	29869828	ZN410_g9501.t3	ZNF410
scaffold_24	2482594	2499110	ZN839_g9267.t1	ZNF839
scaffold_24	29812138	29850579	MSTRG.9499.2	ZNF410
scaffold_24	29812143	29850579	MSTRG.9499.4	ZNF410
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scaffold_24	26965667	26969611	STK31_g9455.t1	ZSCAN12
scaffold_24	32307484	32485693	MSTRG.9556.1	ZSWIM4
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scaffold_25	35523540	35536373	3BP1_g9884.t1	SH3BP1
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scaffold_25	40273777	40274884	A4GAT_g9991.t1	A4GALT
scaffold_25	2790900	2791193	A7L3B_g9686.t1	ATXN7L3B
scaffold_25	36606687	36610029	AB3CA_g9917.t2	APOBEC3C
scaffold_25	36597451	36601971	AB3CA_g9917.t1	APOBEC3CA

scaffold_25	36615939	36620259	ABC3H_g9918.t1	APOBEC3H
scaffold_25	17875136	18005458	MSTRG.9811.1	ACER2
scaffold_25	38658313	38711363	MSTRG.10018.1	ACO2
scaffold_25	8413201	8562356	ACSS3_g9711.t1	ACSS3
scaffold_25	39217889	39218098	MSTRG.10034.1	AKR1E2
scaffold_25	28641474	28693029	AL1L2_g9818.t1	ALDH1L2
scaffold_25	46628032	46635337	ALG12_g10043.t1	ALG12
scaffold_25	46627446	46638132	MSTRG.10120.1	ALG12
scaffold_25	46627446	46638132	MSTRG.10120.2	ALG12
scaffold_25	43167246	43169205	MSTRG.10097.1	ANKAR
scaffold_25	27801623	27807850	BWNIN_g9808.t1	ANKRD33
scaffold_25	25227234	25434579	ANO4_g9785.t2	ANO4
scaffold_25	35684705	35695909	ANR54_g9892.t1	ANKRD54
scaffold_25	23356168	23432199	APAF_g9775.t1	APAF1
scaffold_25	23353724	23432199	MSTRG.9854.2	APAF1
scaffold_25	40341154	40396206	ARFG3_g9992.t1	ARFGAP3
scaffold_25	40340086	40396206	MSTRG.10052.1	ARFGAP3
scaffold_25	40340096	40396206	MSTRG.10052.2	ARFGAP3
scaffold_25	25686920	25700944	ARL1_g9788.t1	ARL1
scaffold_25	24631401	24653633	ARP6_g9780.t1	ACTR6
scaffold_25	47397627	47400294	ARSA_g10067.t1	ARSA
scaffold_25	47396444	47400796	MSTRG.10141.1	ARSA
scaffold_25	47397526	47400796	MSTRG.10141.2	ARSA
scaffold_25	15834395	15896703	AT2B1_g9732.t1	ATP2B1
scaffold_25	36972746	36976873	ATF4_g9929.t1	ATF4
scaffold_25	4325253	4327688	MSTRG.9770.2	BBS10
scaffold_25	35889025	35915919	BI2L2_g9900.t1	BAIAP2L2
scaffold_25	40623242	40641107	BIK_g9996.t1	BIK
scaffold_25	24540911	24611444	MSTRG.9855.6	BLTP3A
scaffold_25	35470906	35474613	BORG5_g9881.t1	CDC42EP1
scaffold_25	46507764	46579445	BRD1_g10040.t1	BRD1
scaffold_25	46506371	46557857	MSTRG.10119.1	BRD1
scaffold_25	46506492	46557857	MSTRG.10119.2	BRD1
scaffold_25	46506492	46557857	MSTRG.10119.3	BRD1
scaffold_25	46509950	46516517	MSTRG.10119.5	BRD1
scaffold_25	30568337	30868288	BTBDB_g9832.t1	ABTB3
scaffold_25	18003733	18005458	BTG1_g9738.t1	BTG1
scaffold_25	43147819	43177787	MSTRG.10096.2	FRMD6-AS1
scaffold_25	43147965	43177787	MSTRG.10096.3	FRMD6-AS1
scaffold_25	35144780	35148047	C1QT6_g9874.t1	C1QTNF6
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scaffold_25	35411206	35434820	CAR10_g9880.t1	ADAM12
scaffold_25	3430299	3470377	CAYP2_g9688.t1	CAPS2
scaffold_25	36511045	36517261	CBX6_g9916.t1	CBX6
scaffold_25	36635051	36652052	CBX7_g9919.t1	CBX7

scaffold_25	36342450	36351004	CBY1_g9909.t1	CBY1
scaffold_25	21034576	21076516	CCD38_g9760.t1	CCDC38
scaffold_25	38923234	38941741	MSTRG.10025.3	CCDC134
scaffold_25	28638835	28639963	MSTRG.9899.1	CCL22
scaffold_25	39314378	39316203	MSTRG.10044.1	CCNI
scaffold_25	30960254	30960854	CDC73_g9835.t1	CDC73
scaffold_25	21366110	21406291	CDK17_g9765.t1	CDK17
scaffold_25	43292071	43299713	MSTRG.10101.1	CDPF1
scaffold_25	43406355	43503498	MSTRG.10106.1	CELSR1
scaffold_25	39031787	39043738	CENPM_g9964.t1	CENPM
scaffold_25	39030825	39043410	MSTRG.10030.1	CENPM
scaffold_25	19812202	19891219	CEP83_g9751.t1	CEP83
scaffold_25	43681736	43738162	CERK1_g10034.t1	CERK
scaffold_25	21526324	21791217	CFA54_g9766.t1	CFAP54
scaffold_25	21855129	21896552	CFA54_g9766.t2	CFAP54
scaffold_25	38476409	38485200	CHADL_g9947.t1	CHADL
scaffold_25	47352502	47355933	MSTRG.10140.1	CHKB
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scaffold_25	25916356	25948530	MSTRG.9874.3	CHPT1
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scaffold_25	14441756	14452898	CL029_g9725.t2	RLIG1
scaffold_25	14399760	14438456	CL050_g9724.t1	C12ORF50
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scaffold_25	39219036	39223298	CP2DE_g9973.t1	CYP2D6
scaffold_25	39375490	39379749	CP2DE_g9975.t1	CYP2D6
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scaffold_25	39603427	39607616	CP2DE_g9978.t1	CYP2D6
scaffold_25	39661392	39664341	CP2DE_g9979.t1	CYP2D6
scaffold_25	39761286	39763812	CP2DE_g9982.t1	CYP2D6
scaffold_25	39780726	39784974	CP2DE_g9983.t1	CYP2D6
scaffold_25	47343560	47351656	CPT1B_g10065.t1	CPT1B
scaffold_25	47352936	47355933	CPT1B_g10065.t2	CPT1B
scaffold_25	47343114	47351656	MSTRG.10133.1	CPT1B
scaffold_25	19264464	19266278	CRADD_g9749.t1	CRADD
scaffold_25	46638515	46647263	CREL2_g10044.t1	CRELD2
scaffold_25	46638415	46647263	MSTRG.10121.1	CRELD2
scaffold_25	46638420	46647263	MSTRG.10121.2	CRELD2
scaffold_25	46638420	46647263	MSTRG.10121.3	CRELD2
scaffold_25	30274729	30378629	CRY1_g9831.t1	CRY1
scaffold_25	30273014	30298274	MSTRG.9918.1	CRY1
scaffold_25	22652378	22652610	MSTRG.9849.1	CSGALNACT1
scaffold_25	4744793	4752875	CSRP2_g9699.t1	CSRP2
scaffold_25	35224966	35252238	CYH4_g9877.t1	CYTH4

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scaffold_25	39712405	39763812	MSTRG.10043.11	CYP2D7
scaffold_25	39727148	39763812	MSTRG.10043.13	CYP2D7
scaffold_25	39728424	39763812	MSTRG.10043.14	CYP2D7
scaffold_25	39729341	39763812	MSTRG.10043.15	CYP2D7
scaffold_25	39603369	39642554	MSTRG.10048.1	CYP2D7
scaffold_25	39640920	39642554	MSTRG.10048.4	CYP2D7
scaffold_25	39659508	39665641	MSTRG.10043.2	CYP2D6
scaffold_25	36177599	36190688	DDX17_g9906.t1	DDX17
scaffold_25	47068656	47079430	DEN6B_g10056.t1	DENND6B
scaffold_25	47066215	47079430	MSTRG.10129.1	DENND6B
scaffold_25	47066240	47079430	MSTRG.10129.2	DENND6B
scaffold_25	24659759	24683508	DEPD4_g9781.t1	DEPDC4
scaffold_25	38769772	38789838	DESI1_g9957.t1	DESI1
scaffold_25	38766173	38789838	MSTRG.10023.1	DESI1
scaffold_25	38129510	38192784	MSTRG.10006.1	DNAJB7
scaffold_25	36446189	36457599	MSTRG.9981.1	DNAL4
scaffold_25	36446695	36450675	MSTRG.9981.3	DNAL4
scaffold_25	36446698	36450675	MSTRG.9981.5	DNAL4
scaffold_25	38136486	38137421	DNJB7_g9943.t1	DNAJB7
scaffold_25	28765755	28816422	DP13B_g9820.t1	APPL2
scaffold_25	26113062	26126016	DRAM1_g9795.t2	DRAM1
scaffold_25	15603107	15605883	DUS6_g9729.t1	DUSP6
scaffold_25	4886357	4922272	E2F7_g9700.t1	E2F7
scaffold_25	18528174	18652283	EEA1_g9743.t1	EEA1
scaffold_25	40989396	41230941	MSTRG.10067.1	EFCAB6
scaffold_25	40989506	41239697	MSTRG.10067.2	EFCAB6
scaffold_25	40989986	41230941	MSTRG.10067.3	EFCAB6
scaffold_25	41002944	41051245	MSTRG.10067.5	EFCAB6
scaffold_25	40991428	41162644	EFCB6_g10003.t1	EFCAB6
scaffold_25	32200227	32201117	EH1L1_g9845.t1	EHBP1L1
scaffold_25	28043825	28044937	TRXR1_g9814.t1	TRUB2
scaffold_25	35704417	35730267	EIF3L_g9893.t1	EIF3L
scaffold_25	21320514	21357769	ELK3_g9764.t1	ELK3
scaffold_25	14577463	14603339	MSTRG.9801.2	ELP1
scaffold_25	39178147	39179993	EMRE_g9970.t1	SMDT1
scaffold_25	27781768	27797723	ENPL_g9807.t1	HSP90B1
scaffold_25	38317030	38395308	MSTRG.10009.2	EP300
scaffold_25	36160036	36170153	ERD23_g9905.t1	KDELR3
scaffold_25	38100537	38128949	F10A1_g9941.t1	F10A1
scaffold_25	37382794	37412640	FA83F_g9934.t1	FA83F
scaffold_25	40643924	40652517	FABD_g9997.t1	FABD
scaffold_25	39173305	39182838	MSTRG.10032.1	PHETA2
scaffold_25	39173305	39182838	MSTRG.10032.2	PHETA2

scaffold_25	42448703	42473660	MSTRG.10089.3	FAM118A
scaffold_25	42448741	42473660	MSTRG.10089.4	FAM118A
scaffold_25	42617944	42703800	FBLN1_g10022.t1	FBLN1
scaffold_25	42617725	42672730	MSTRG.10090.1	FBLN1
scaffold_25	31068080	31089097	FBX7_g9840.t1	FBXO7
scaffold_25	20383616	20436693	FGD6_g9754.t1	FGD6
scaffold_25	20455289	20560186	FGD6_g9754.t3	FGD6
scaffold_25	34525597	34538467	FXRD2_g9861.t1	FXRD2
scaffold_25	34525597	34538610	FXRD2_g9861.t2	FXRD2
scaffold_25	24046825	24047103	G3P_g9778.t1	GAPDH
scaffold_25	35673164	35674958	GALR3_g9891.t1	GALR3
scaffold_25	46971786	47002577	GCP6_g10051.t1	TUBGCP6
scaffold_25	35498072	35516755	GGA1_g9883.t1	GGA1
scaffold_25	27830963	27868858	GL8D2_g9810.t1	GLT8D2
scaffold_25	3583877	3630491	GLIP1_g9691.t1	GLIPR1
scaffold_25	43593042	43667111	GRAM4_g10033.t1	GRAMD4
scaffold_25	43592918	43677114	MSTRG.10107.1	GRAMD4
scaffold_25	3536155	3570558	GRPL2_g9690.t1	GRPL2
scaffold_25	36374487	36399025	GTPB1_g9912.t1	GTPBP1
scaffold_25	36374460	36399025	GTPB1_g9912.t2	GTPBP1
scaffold_25	43349409	43378079	MSTRG.10104.1	GTSE1
scaffold_25	43349409	43378079	MSTRG.10104.2	GTSE1
scaffold_25	43349741	43367434	MSTRG.10104.3	GTSE1
scaffold_25	35660136	35660720	H10_g9889.t1	H10
scaffold_25	27879264	27914695	HCFC2_g9811.t1	HCFC2
scaffold_25	47002956	47008311	HDA10_g10052.t1	HDAC10
scaffold_25	47002758	47008311	MSTRG.10128.1	HDAC10
scaffold_25	47002758	47008311	MSTRG.10128.2	HDAC10
scaffold_25	47002761	47008311	MSTRG.10128.3	HDAC10
scaffold_25	47002763	47008311	MSTRG.10128.4	HDAC10
scaffold_25	47006382	47008311	MSTRG.10128.6	HDAC10
scaffold_25	33244765	33276432	MSTRG.9929.1	HMGXB4
scaffold_25	33244843	33276432	MSTRG.9929.3	HMGXB4
scaffold_25	33347176	33353633	HMOX1_g9850.t1	HMOX1
scaffold_25	21084118	21102682	HUTI_g9761.t1	HUTI
scaffold_25	26529053	26596550	IGF1_g9800.t1	IGF1
scaffold_25	23332362	23353210	MSTRG.9853.1	IKBIP
scaffold_25	23340030	23352767	IKIP_g9774.t1	IKBIP
scaffold_25	35104089	35120118	IL2RB_g9873.t1	IL2RB
scaffold_25	35225242	35225463	MSTRG.9947.1	INO80C
scaffold_25	47377099	47386932	JIP2_g10066.t1	MAPK8IP2
scaffold_25	36360513	36370734	JOS1_g9911.t1	JOS1
scaffold_25	42366804	42406714	K0930_g10016.t1	K0930
scaffold_25	35662598	35668564	KBL_g9890.t1	KBL
scaffold_25	36065750	36083115	KC1E_g9902.t1	KC1E

scaffold_25	35036550	35045281	KCD17_g9871.t1	KCD17
scaffold_25	3183974	3371524	KCNC2_g9687.t1	KCNC2
scaffold_25	42365988	42366390	MSTRG.10085.1	KIAA0930
scaffold_25	3631721	3644590	KRR1_g9692.t1	KRR1
scaffold_25	3631533	3644590	MSTRG.9761.4	KRR1
scaffold_25	38459461	38476737	MSTRG.10010.1	L3MBTL2
scaffold_25	23260060	23293443	LAP2B_g9773.t1	TMPO
scaffold_25	23319377	23325256	LAP2B_g9773.t2	TMPO
scaffold_25	31683636	32168568	MSTRG.9927.1	LARGE1
scaffold_25	35474676	35476222	LEG2_g9882.t1	LEG2
scaffold_25	8188405	8224883	LIN7A_g9710.t1	LIN7A
scaffold_25	8569781	8733749	LIPA2_g9712.t1	PPFIA2
scaffold_25	21137612	21169858	LKHA4_g9763.t1	LTA4H
scaffold_25	47259212	47263500	LMF2_g10060.t1	LMF2
scaffold_25	47258790	47260149	MSTRG.10134.1	LMF2
scaffold_25	39967029	39967051	LOC000000120_g9985.t1	LOC000000120
scaffold_25	11910627	12094504	LRIQ1_g9718.t1	LRRIQ1
scaffold_25	20731974	20762508	MAP2_g9756.t1	MAP2
scaffold_25	47021109	47021425	MSTRG.10124.1	MAPK11
scaffold_25	40643771	40647687	MSTRG.10062.1	MCAT
scaffold_25	37974719	37977039	MCHR1_g9939.t1	MCHR1
scaffold_25	33356445	33376079	MCM5_g9851.t1	MCM5
scaffold_25	38846000	38939469	MEI1_g9960.t2	MEI1
scaffold_25	38919930	38923182	MSTRG.10026.1	MEI1
scaffold_25	20731974	20762508	MSTRG.9837.1	METAP2
scaffold_25	36933608	36935212	MGAT3_g9926.t1	MGAT3
scaffold_25	35744866	35772129	MSTRG.9963.2	MICALL1
scaffold_25	36962612	36969582	MID51_g9928.t1	MIEF1
scaffold_25	36954342	36969582	MSTRG.9994.2	MIEF1
scaffold_25	35744866	35770658	MILK1_g9894.t1	MILK1
scaffold_25	47022344	47027882	MK11_g10054.t1	MAPK11
scaffold_25	47010667	47018865	MK12_g10053.t1	MK12
scaffold_25	37749597	37945691	MSTRG.10003.1	MRTFA
scaffold_25	37749597	37759275	MSTRG.10003.2	MRTFA
scaffold_25	37750351	37945691	MSTRG.10003.4	MRTFA
scaffold_25	37750755	37945691	MSTRG.10003.5	MRTFA
scaffold_25	37750316	37813107	MRTFA_g9938.t1	MRTFA
scaffold_25	30260444	30261377	MTEF2_g9829.t1	MTEF2
scaffold_25	30261378	30269988	CU054_g9830.t1	MTERF2
scaffold_25	43145731	43146608	MSTRG.10094.1	MTIF2
scaffold_25	47197877	47225300	MTMR5_g10058.t1	MTMR5
scaffold_25	43382304	43401729	MTU1_g10031.t1	MTU1
scaffold_25	25812411	25914521	MSTRG.9873.1	MYBPC1
scaffold_25	8108479	8109730	MYF6_g9708.t2	MYF6
scaffold_25	34337298	34398042	MYH9_g9859.t1	MYH9

scaffold_25	25822010	25903949	MYPC1_g9790.t1	MYBPC1
scaffold_25	7308370	7449064	MYPT1_g9705.t1	MYPT1
scaffold_25	39162167	39171223	MSTRG.10031.1	NAGA
scaffold_25	39162545	39171223	MSTRG.10031.2	NAGA
scaffold_25	39163046	39170714	NAGAB_g9968.t1	NAGAB
scaffold_25	40203301	40228532	NB5R3_g9990.t1	NB5R3
scaffold_25	47263705	47278134	MSTRG.10135.1	NCAPH2
scaffold_25	47263705	47278134	MSTRG.10135.2	NCAPH2
scaffold_25	47263747	47276556	MSTRG.10135.3	NCAPH2
scaffold_25	47276679	47278134	MSTRG.10135.5	NCAPH2
scaffold_25	39182978	39189938	NDUA6_g9971.t1	NDUA6
scaffold_25	20360904	20383521	NDUAC_g9753.t1	NDUFA12
scaffold_25	21852768	21897551	MSTRG.9850.2	NEDD1
scaffold_25	20872906	20979990	NET4_g9758.t1	NTN4
scaffold_25	40000985	40021009	NFAM1_g9986.t1	NFAM1
scaffold_25	27928198	27946149	MSTRG.9885.3	NFYB
scaffold_25	27930100	27944178	NFYB_g9812.t1	NFYB
scaffold_25	38823056	38830434	NH2L1_g9959.t1	SNU13
scaffold_25	35563105	35567797	NOL12_g9887.t1	NOL12
scaffold_25	28625684	28637416	NOPC1_g9817.t1	NOPCHAP1
scaffold_25	28625684	28632695	NOPC1_g9817.t2	NOPCHAP1
scaffold_25	39400769	39405078	CP2DE_g9976.t1	CP2DE_g9976.t1
scaffold_25	39742573	39746869	CP2DE_g9981.t1	CP2DE_g9981.t1
scaffold_25	37707135	37749323	MSTRG.10002.1	MSTRG.10002.1
scaffold_25	37707160	37754372	MSTRG.10002.2	MSTRG.10002.2
scaffold_25	38589456	38589666	MSTRG.10013.1	MSTRG.10013.1
scaffold_25	38920316	38920771	MSTRG.10025.2	MSTRG.10025.2
scaffold_25	39004532	39004771	MSTRG.10027.1	MSTRG.10027.1
scaffold_25	39946027	39946227	MSTRG.10038.1	MSTRG.10038.1
scaffold_25	39950152	39950366	MSTRG.10039.1	MSTRG.10039.1
scaffold_25	39218560	39347193	MSTRG.10042.1	MSTRG.10042.1
scaffold_25	39219953	39291654	MSTRG.10042.3	MSTRG.10042.3
scaffold_25	39743558	39763082	MSTRG.10043.17	MSTRG.10043.17
scaffold_25	39660164	39716183	MSTRG.10043.4	MSTRG.10043.4
scaffold_25	39699463	39704496	MSTRG.10043.7	MSTRG.10043.7
scaffold_25	39699552	39716183	MSTRG.10043.8	MSTRG.10043.8
scaffold_25	39705210	39716183	MSTRG.10043.9	MSTRG.10043.9
scaffold_25	39603708	39605735	MSTRG.10048.3	MSTRG.10048.3
scaffold_25	39633367	39640470	MSTRG.10049.1	MSTRG.10049.1
scaffold_25	39780779	39782172	MSTRG.10050.2	MSTRG.10050.2
scaffold_25	39780981	39792111	MSTRG.10050.3	MSTRG.10050.3
scaffold_25	40199340	40199663	MSTRG.10051.1	MSTRG.10051.1
scaffold_25	40355568	40390280	MSTRG.10053.1	MSTRG.10053.1
scaffold_25	40398273	40398592	MSTRG.10058.1	MSTRG.10058.1
scaffold_25	40623353	40641107	MSTRG.10060.2	MSTRG.10060.2

scaffold_25	40623354	40641107	MSTRG.10060.3	MSTRG.10060.3
scaffold_25	40671425	40671761	MSTRG.10061.1	MSTRG.10061.1
scaffold_25	40985011	40985394	MSTRG.10064.1	MSTRG.10064.1
scaffold_25	40725215	40726764	MSTRG.10066.1	MSTRG.10066.1
scaffold_25	41041577	41230941	MSTRG.10067.6	MSTRG.10067.6
scaffold_25	42200743	42200974	MSTRG.10073.1	MSTRG.10073.1
scaffold_25	42165701	42165933	MSTRG.10075.1	MSTRG.10075.1
scaffold_25	42205204	42205404	MSTRG.10076.1	MSTRG.10076.1
scaffold_25	42226060	42226351	MSTRG.10077.1	MSTRG.10077.1
scaffold_25	42237227	42237721	MSTRG.10078.1	MSTRG.10078.1
scaffold_25	42242034	42314783	MSTRG.10080.1	MSTRG.10080.1
scaffold_25	42292883	42314783	MSTRG.10080.2	MSTRG.10080.2
scaffold_25	42360285	42360851	MSTRG.10081.1	MSTRG.10081.1
scaffold_25	42361212	42361444	MSTRG.10082.1	MSTRG.10082.1
scaffold_25	42363052	42363579	MSTRG.10084.1	MSTRG.10084.1
scaffold_25	42448698	42473660	MSTRG.10089.1	MSTRG.10089.1
scaffold_25	42448698	42473660	MSTRG.10089.2	MSTRG.10089.2
scaffold_25	42448741	42467395	MSTRG.10089.5	MSTRG.10089.5
scaffold_25	42950342	42950565	MSTRG.10091.1	MSTRG.10091.1
scaffold_25	42939157	42943561	MSTRG.10093.1	MSTRG.10093.1
scaffold_25	43187273	43190410	MSTRG.10095.1	MSTRG.10095.1
scaffold_25	43181849	43182640	MSTRG.10099.1	MSTRG.10099.1
scaffold_25	43248710	43291720	MSTRG.10100.2	MSTRG.10100.2
scaffold_25	43754918	43764255	MSTRG.10109.1	MSTRG.10109.1
scaffold_25	43757568	43757774	MSTRG.10110.1	MSTRG.10110.1
scaffold_25	43761509	43761884	MSTRG.10111.1	MSTRG.10111.1
scaffold_25	44078624	44078855	MSTRG.10113.1	MSTRG.10113.1
scaffold_25	45357360	45357583	MSTRG.10116.1	MSTRG.10116.1
scaffold_25	45815010	45815229	MSTRG.10117.1	MSTRG.10117.1
scaffold_25	46585058	46612916	MSTRG.10118.4	MSTRG.10118.4
scaffold_25	47106237	47196427	MSTRG.10131.4	MSTRG.10131.4
scaffold_25	47106237	47196427	MSTRG.10131.5	MSTRG.10131.5
scaffold_25	47106237	47196427	MSTRG.10131.6	MSTRG.10131.6
scaffold_25	47106249	47196427	MSTRG.10131.7	MSTRG.10131.7
scaffold_25	47106249	47196427	MSTRG.10131.8	MSTRG.10131.8
scaffold_25	47278135	47285473	MSTRG.10136.2	MSTRG.10136.2
scaffold_25	47541979	47547975	MSTRG.10137.1	MSTRG.10137.1
scaffold_25	47546037	47547975	MSTRG.10137.2	MSTRG.10137.2
scaffold_25	47562155	47563367	MSTRG.10139.1	MSTRG.10139.1
scaffold_25	59731	66945	MSTRG.9740.4	MSTRG.9740.4
scaffold_25	562768	636761	MSTRG.9751.1	MSTRG.9751.1
scaffold_25	4694407	4730709	MSTRG.9774.6	MSTRG.9774.6
scaffold_25	6551933	7076611	MSTRG.9777.1	MSTRG.9777.1
scaffold_25	8217402	8217602	MSTRG.9785.1	MSTRG.9785.1
scaffold_25	10189103	10189333	MSTRG.9793.1	MSTRG.9793.1

scaffold_25	15984452	15984671	MSTRG.9808.1	MSTRG.9808.1
scaffold_25	17935914	17945131	MSTRG.9811.3	MSTRG.9811.3
scaffold_25	20215761	20215996	MSTRG.9831.1	MSTRG.9831.1
scaffold_25	20716912	20717135	MSTRG.9840.1	MSTRG.9840.1
scaffold_25	24638577	24653633	MSTRG.9856.3	MSTRG.9856.3
scaffold_25	25129371	25129592	MSTRG.9861.1	MSTRG.9861.1
scaffold_25	28332486	28332698	MSTRG.9888.1	MSTRG.9888.1
scaffold_25	32828200	32828429	MSTRG.9926.1	MSTRG.9926.1
scaffold_25	33341710	33353633	MSTRG.9930.1	MSTRG.9930.1
scaffold_25	36270315	36272035	MSTRG.9970.2	MSTRG.9970.2
scaffold_25	36730975	36731175	MSTRG.9989.1	MSTRG.9989.1
scaffold_25	36954342	36969582	MSTRG.9994.1	MSTRG.9994.1
scaffold_25	5371754	5932411	NAV3_g9701.t1	NAV3_g9701.t1
scaffold_25	26200887	26243519	WASC3_g9796.t1	WASC3_g9796.t1
scaffold_25	36977595	36980406	MSTRG.9997.2	NOTHING
scaffold_25	36472352	36491687	NPTXR_g9915.t1	NPTXR
scaffold_25	27638484	27696133	NT5D3_g9806.t1	NT5DC3
scaffold_25	29512557	29583166	NUAK1_g9822.t1	NUAK1
scaffold_25	19019934	19036621	NUD4B_g9744.t1	NUDT4
scaffold_25	26256309	26308612	NUP37_g9797.t1	NUP37
scaffold_25	42339342	42356628	NUP50_g10015.t1	NUP50
scaffold_25	42335598	42358966	MSTRG.10083.1	NUP50
scaffold_25	4333511	4404137	OSBL8_g9697.t1	OSBPL8
scaffold_25	4328702	4513612	MSTRG.9772.2	OSBPL8
scaffold_25	4329446	4513612	MSTRG.9772.3	OSBPL8
scaffold_25	40405381	40445626	PACN2_g9993.t1	PACSIN2
scaffold_25	40403103	40546601	MSTRG.10056.1	PACSIN2
scaffold_25	40403133	40494283	MSTRG.10056.2	PACSIN2
scaffold_25	46931051	46939971	PANX2_g10049.t1	PANX2
scaffold_25	36704046	36721075	PDGFB_g9920.t1	PDGFB
scaffold_25	40176253	40199046	PDIP3_g9989.t1	POLDIP3
scaffold_25	25812411	25914521	MSTRG.9873.3	PEX3
scaffold_25	25812516	25916154	MSTRG.9873.5	PEX3
scaffold_25	22142529	22165490	P3C2A_g9768.t1	PEX3
scaffold_25	42070888	42177156	PF21B_g10014.t1	PF21B
scaffold_25	26087335	26087730	PGAP1_g9794.t2	PGAP1
scaffold_25	38050894	38094079	MSTRG.10000.3	PGBP
scaffold_25	17140628	17173041	PGS2_g9737.t2	DCN
scaffold_25	26887512	26955136	PH4H_g9801.t1	PH4H
scaffold_25	38636751	38658333	PHF5A_g9952.t1	PHF5A
scaffold_25	4078656	4081188	PHLA1_g9695.t1	PHLA1
scaffold_25	4073908	4081188	MSTRG.9767.1	PHLDA1
scaffold_25	35861514	35879478	MSTRG.9962.1	PICK1
scaffold_25	35861724	35879478	MSTRG.9962.3	PICK1
scaffold_25	35862107	35879478	PICK1_g9898.t1	PICK1

scaffold_25	46680888	46683768	MSTRG.10122.2	PIM3
scaffold_25	46680665	46683768	PIM3_g10045.t1	PIM3
scaffold_25	43306876	43317611	PKDRE_g10029.t1	PKDREJ
scaffold_25	3726468	3726776	PKHA2_g9693.t1	PKHA2
scaffold_25	18478142	18521960	PKHG7_g9742.t1	PLEKHG7
scaffold_25	35916888	35975316	MSTRG.9968.2	PLA2G6
scaffold_25	41330064	41345331	PLPL3_g10006.t1	PNPLA3
scaffold_25	35917557	35965647	PLPL9_g9901.t1	PLPL9
scaffold_25	47033626	47047869	PLXB2_g10055.t1	PLXNB2
scaffold_25	19665924	19810949	PLXC1_g9750.t1	PLXNC1
scaffold_25	47032906	47047869	MSTRG.10130.1	PLXNB2
scaffold_25	47032906	47057133	MSTRG.10130.2	PLXNB2
scaffold_25	47032917	47063997	MSTRG.10130.3	PLXNB2
scaffold_25	47032917	47064576	MSTRG.10130.4	PLXNB2
scaffold_25	19665471	19810949	MSTRG.9828.1	PLXNC1
scaffold_25	38749741	38758966	PMM1_g9956.t1	PMM1
scaffold_25	41329925	41347832	MSTRG.10069.1	PNPLA3
scaffold_25	41329925	41337947	MSTRG.10069.2	PNPLA3
scaffold_25	15664809	15757024	POC1B_g9730.t1	POC1B
scaffold_25	40174042	40199046	MSTRG.10055.1	POLDIP3
scaffold_25	38720645	38723928	MSTRG.10019.2	POLR3H
scaffold_25	47147329	47196427	PP6R2_g10057.t1	PP6R2
scaffold_25	43223381	43291720	MSTRG.10100.1	PPARA
scaffold_25	43263490	43284825	PPARA_g10027.t1	PPARA
scaffold_25	47106137	47196427	MSTRG.10131.1	PPP6R2
scaffold_25	47128464	47184746	MSTRG.10131.9	PPP6R2
scaffold_25	47106137	47196427	MSTRG.10131.2	PPP6R2
scaffold_25	47106137	47196427	MSTRG.10131.3	PPP6R2
scaffold_25	30936925	30960253	PRDM4_g9834.t1	PRDM4
scaffold_25	41957079	41965608	MSTRG.10072.2	PRR5
scaffold_25	41936087	41965608	PRR5_g10012.t1	PRR5
scaffold_25	7949188	8088896	MSTRG.9787.4	PTPRQ
scaffold_25	7949201	8038625	MSTRG.9787.5	PTPRQ
scaffold_25	7949239	8088896	MSTRG.9787.6	PTPRQ
scaffold_25	7949391	7959242	MSTRG.9787.7	PTPRQ
scaffold_25	37683269	37700453	PUR8_g9936.t1	PUR8
scaffold_25	30889304	30912043	PWP1_g9833.t1	PWP1
scaffold_25	489766	520219	RAB21_g9679.t1	RAB21
scaffold_25	38492448	38516388	RAGP1_g9948.t1	RANGAP1
scaffold_25	38487611	38518558	MSTRG.10012.1	RANGAP1
scaffold_25	33614214	33883087	MSTRG.9935.3	RBFOX2
scaffold_25	38213532	38226953	MSTRG.10008.2	RBX1
scaffold_25	38212480	38226953	RBX1_g9944.t1	RBX1
scaffold_25	30063214	30063423	MSTRG.9910.1	RFX4
scaffold_25	41970723	42053168	RHG08_g10013.t1	ARHGAP8

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scaffold_25	30074570	30173787	RIC8B_g9827.t1	RIC8B
scaffold_25	36773711	36780395	RL3_g9921.t1	RL3
scaffold_25	19091451	19120757	RM42_g9746.t1	MRPL42
scaffold_25	38082900	38091033	MSTRG.10001.1	RNASEL
scaffold_25	35779949	35788847	RPAB2_g9896.t1	POLR2F
scaffold_25	29745833	29858448	RPC2_g9825.t1	POLR3B
scaffold_25	38712804	38726183	RPC8_g9954.t1	POLR3H
scaffold_25	40154978	40161301	RRP7A_g9988.t1	RRP7A
scaffold_25	30995799	31014290	RTCB_g9837.t1	RTCB
scaffold_25	41778569	41787950	MSTRG.10071.1	RTL6
scaffold_25	41786697	41787676	RTL6_g10011.t1	RTL6
scaffold_25	21026809	21033481	RUXF_g9759.t1	RUXF
scaffold_25	46582231	46607035	S22A7_g10041.t1	S22A7
scaffold_25	28480471	28571726	S41A2_g9816.t1	SLC41A2
scaffold_25	11746609	11773357	S6A15_g9716.t1	S6A15
scaffold_25	41351216	41385185	SAM50_g10007.t1	SAMM50
scaffold_25	41351003	41365072	MSTRG.10070.1	SAMM50
scaffold_25	47197109	47225300	MSTRG.10132.1	SBF1
scaffold_25	47197550	47225300	MSTRG.10132.2	SBF1
scaffold_25	47199087	47225300	MSTRG.10132.4	SBF1
scaffold_25	36971899	36976873	MSTRG.9995.2	SBSPON
scaffold_25	14831158	14903712	SCF_g9728.t1	SCF
scaffold_25	47278135	47285473	MSTRG.10136.1	SCO2
scaffold_25	47278135	47285473	MSTRG.10136.3	SCO2
scaffold_25	47278135	47278948	SCO2_g10062.t1	SCO2
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scaffold_25	24697161	24750943	SCYL2_g9782.t1	SCYL2
scaffold_25	46969923	46971521	MSTRG.10126.2	SELENOO
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scaffold_25	46958687	46971521	SELO_g10050.t1	SELENOO
scaffold_25	40130185	40154573	SERHL_g9987.t1	SERHL
scaffold_25	40133124	40154573	MSTRG.10040.2	SERHL2
scaffold_25	39175539	39176627	SESQ2_g9969.t1	SESQ2
scaffold_25	37738404	37748734	SGSM3_g9937.t1	SGSM3
scaffold_25	47424135	47473264	SHAN3_g10068.t1	SHAN3
scaffold_25	39006026	39006238	MSTRG.10029.1	SHISA8
scaffold_25	39006598	39011907	SHSA8_g9962.t1	SHSA8
scaffold_25	74429	108211	SL9B2_g9676.t1	SL9B2
scaffold_25	43180975	43181410	MSTRG.10098.1	SLC16A11
scaffold_25	38025417	38073898	MSTRG.10000.1	SLC25A17
scaffold_25	42475903	42549695	SMC1B_g10020.t1	SMC1B
scaffold_25	36881488	36881775	SMC5_g9925.t1	SMC5
scaffold_25	39178042	39182838	MSTRG.10032.4	SMDT1

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scaffold_25	38822104	38826251	MSTRG.10022.1	SNU13
scaffold_25	19182373	19184702	SOCS2_g9748.t1	SOCS2
scaffold_25	35793722	35802354	SOX10_g9897.t1	SOX10
scaffold_25	25746924	25754310	SPIC_g9789.t1	SPIC
scaffold_25	38943146	39002315	SRBP2_g9961.t1	SRBP2
scaffold_25	38753613	38753845	MSTRG.10021.1	STX3
scaffold_25	41255151	41289784	MSTRG.10068.1	SULT4A1
scaffold_25	41255234	41289784	MSTRG.10068.2	SULT4A1
scaffold_25	41255586	41258622	MSTRG.10068.3	SULT4A1
scaffold_25	36402672	36420206	SUN2_g9913.t1	SUN2
scaffold_25	25954662	25956768	SYCP3_g9792.t1	SYCP3
scaffold_25	6724262	7076611	SYT1_g9703.t1	SYT1
scaffold_25	29708705	29738410	T11L2_g9824.t1	TCP11L2
scaffold_25	36856833	36881490	TAB1_g9924.t1	TAB1
scaffold_25	9497820	9504728	TAP26_g9713.t1	TAP26
scaffold_25	43765790	44111146	TB22A_g10035.t1	TB22A
scaffold_25	562768	636761	TBC15_g9680.t1	TBC1D15
scaffold_25	43765618	43797358	MSTRG.10112.1	TBC1D22A
scaffold_25	44111190	44111534	MSTRG.10114.1	TBC1D22A
scaffold_25	39800790	39801051	MSTRG.10035.1	TCF20
scaffold_25	39801791	39899245	MSTRG.10037.1	TCF20
scaffold_25	39808512	39858361	TCF20_g9984.t1	TCF20
scaffold_25	39903166	39903388	MSTRG.10036.1	TEAD4
scaffold_25	38595590	38609585	MSTRG.10015.1	TEF
scaffold_25	38596054	38609585	MSTRG.10015.2	TEF
scaffold_25	38596138	38609585	TEF_g9950.t1	TEF
scaffold_25	34497053	34506977	THIOM_g9860.t1	TXN2
scaffold_25	35014709	35022065	THTM_g9870.t1	THTM
scaffold_25	35007490	35013530	THTR_g9869.t1	TST
scaffold_25	31340226	31396333	TIMP3_g9842.t1	TIMP3
scaffold_25	30250697	30260439	TM263_g9828.t1	TM263
scaffold_25	42240976	42241179	MSTRG.10079.1	TM4SF19
scaffold_25	20039477	20105974	TMCC3_g9752.t1	TMCC3
scaffold_25	23280651	23293443	MSTRG.9851.3	TMPO
scaffold_25	35050430	35082196	TMPS6_g9872.t1	TMPRSS6
scaffold_25	9795057	10181277	MSTRG.9795.2	TMTC2
scaffold_25	14541332	14601149	TMTC3_g9727.t1	TMTC3
scaffold_25	37426934	37493016	MSTRG.9996.1	TNRC6B
scaffold_25	38635653	38636750	TOB2_g9951.t1	TOB2
scaffold_25	33279891	33320107	TOM1_g9849.t1	TOM1
scaffold_25	36355575	36357636	TOM22_g9910.t1	TOM22
scaffold_25	38790061	38815632	MSTRG.10024.1	TPT1
scaffold_25	38790064	38815632	MSTRG.10024.2	TPT1

scaffold_25	46944028	46954510	MSTRG.10123.1	TRABD
scaffold_25	46944028	46954510	MSTRG.10123.2	TRABD
scaffold_25	43146631	43153097	TRIO_g10026.t1	TRIO
scaffold_25	42474149	42474429	MSTRG.10088.1	TRMT5
scaffold_25	43383467	43402976	MSTRG.10105.2	TRMU
scaffold_25	43385287	43393631	MSTRG.10105.3	TRMU
scaffold_25	27984840	28033398	TRXR1_g9813.t1	TXNRD1
scaffold_25	28052076	28095903	TRXR1_g9814.t2	TXNRD1
scaffold_25	11871948	11898783	TSN19_g9717.t1	TSPAN19
scaffold_25	43345678	43345879	MSTRG.10103.1	TTC38
scaffold_25	43350091	43378079	TTC38_g10030.t2	TTC38
scaffold_25	40674576	40692240	TTL12_g9999.t1	TTL12
scaffold_25	40567739	40599155	MSTRG.10059.1	TTLL1
scaffold_25	46969923	47002577	MSTRG.10127.1	TUBGCP6
scaffold_25	46970605	47002577	MSTRG.10127.2	TUBGCP6
scaffold_25	46975439	46979030	MSTRG.10127.4	TUBGCP6
scaffold_25	47280371	47285473	MSTRG.10136.5	TYMP
scaffold_25	47280410	47285473	MSTRG.10136.6	TYMP
scaffold_25	47280728	47284967	TYPH_g10063.t1	TYMP
scaffold_25	47285931	47287566	TYPH_g10063.t2	TYMP
scaffold_25	19043787	19076910	UBE2N_g9745.t1	UBE2N
scaffold_25	20764815	20778330	UBP44_g9757.t1	UBP44
scaffold_25	24508101	24626732	UH1BL_g9779.t1	UH1BL
scaffold_25	24538502	24611444	MSTRG.9855.3	BLTP3B
scaffold_25	24540906	24626732	MSTRG.9855.5	BLTP3B
scaffold_25	42431513	42439774	UPK3A_g10018.t1	UPK3A
scaffold_25	25585422	25682445	UTP20_g9787.t1	UTP20
scaffold_25	20560769	20613769	VEZA_g9755.t1	VEZT
scaffold_25	20560769	20616224	VEZA_g9755.t2	VEZT
scaffold_25	28704789	28759020	WASC4_g9819.t1	WASC4
scaffold_25	39087254	39122092	WBP2L_g9967.t1	WBP2L
scaffold_25	38129584	38189957	XPP3_g9942.t1	XPP3
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scaffold_25	46582190	46614381	MSTRG.10118.2	ZBED4
scaffold_25	46607036	46610954	ZBED4_g10042.t1	ZBED4
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scaffold_25	4646397	4738358	ZDH17_g9698.t1	ZDHHC17
scaffold_25	4646397	4740596	MSTRG.9774.5	ZDHHC17
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scaffold_26	42574538	42579090	MSTRG.10758.1	ABCA3

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scaffold_26	42701622	42751301	MSTRG.10761.2	ABCA3
scaffold_26	11660600	11665949	MSTRG.10378.1	ABHD11
scaffold_26	11660600	11665949	MSTRG.10378.2	ABHD11
scaffold_26	11663617	11665949	ABHDB_g10318.t1	ABHD11
scaffold_26	9169296	9178397	ACES_g10244.t1	ACHE
scaffold_26	25158154	25167759	ACPM_g10494.t1	NDUFAB1
scaffold_26	26717647	26739980	ACSM3_g10515.t1	ACSM3
scaffold_26	28368694	28395637	ACSM3_g10540.t2	ACSM3
scaffold_26	26712035	26739980	MSTRG.10581.2	ACSM3
scaffold_26	26716004	26739980	MSTRG.10581.4	ACSM3
scaffold_26	26647703	26667482	ACSM1_g10513.t2	ACSM4
scaffold_26	26199767	26214704	ARHGQ_g10509.t1	ACSM4
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scaffold_26	671502	738486	ADAP1_g10080.t1	ADAP1
scaffold_26	41073721	41171278	ADCY9_g10658.t1	ADCY9
scaffold_26	41073175	41190200	MSTRG.10709.1	ADCY9
scaffold_26	8929778	8950606	AGFG2_g10227.t1	AGFG2
scaffold_26	8929654	8953145	MSTRG.10303.1	AGFG2
scaffold_26	8929804	8953145	MSTRG.10303.3	AGFG2
scaffold_26	8945168	8953145	MSTRG.10303.4	AGFG2
scaffold_26	10453064	10453304	MSTRG.10343.1	AGO2
scaffold_26	18514868	18515373	AHSP_g10365.t1	AHSP
scaffold_26	5699339	5707451	AIMP2_g10156.t1	AIMP2
scaffold_26	32277273	32420837	MSTRG.10646.2	AKAP5
scaffold_26	19775295	19780161	ALDOA_g10436.t1	ALDOA
scaffold_26	40276191	40287775	ALG1_g10631.t1	ALG1
scaffold_26	40275832	40287775	MSTRG.10687.1	ALG1
scaffold_26	10458427	10464250	ALKB4_g10286.t1	ALKBH4
scaffold_26	43018034	43019945	ALR_g10734.t1	GFER
scaffold_26	42489811	42499887	MSTRG.10747.1	AMDHD2
scaffold_26	42490953	42499480	MSTRG.10747.2	AMDHD2
scaffold_26	2452932	2464014	AMZ1_g10111.t1	AMZ1
scaffold_26	9533806	9538344	MSTRG.10334.1	ANAPC13
scaffold_26	40660288	40670643	MSTRG.10693.1	ANKAR
scaffold_26	44192271	44194205	ANKMT_g10790.t1	ANTKMT
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scaffold_26	40557573	40587629	MSTRG.10695.1	ANKS3
scaffold_26	40557657	40573240	MSTRG.10695.2	ANKS3
scaffold_26	32047814	32048626	MSTRG.10638.1	ANO10
scaffold_26	5688655	5693513	ANR61_g10155.t1	ANKRD61
scaffold_26	27081722	27091511	ANS4B_g10525.t1	ANKS4B
scaffold_26	44192243	44193252	MSTRG.10824.1	ANTKMT
scaffold_26	9386891	9392055	AP1S1_g10268.t1	AP1S1

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scaffold_26	4162773	4174265	AP5Z1_g10119.t1	AP5Z1
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scaffold_26	23891247	23892384	MSTRG.10536.1	ARHGEF12
scaffold_26	17845228	17851272	ARLY_g10352.t1	ASL
scaffold_26	18550642	18557319	ARMC5_g10370.t1	ARMC5
scaffold_26	6958025	6987170	MSTRG.10256.1	ARPC1A
scaffold_26	6967380	7007039	ARC1B_g10175.t1	ARPC1B
scaffold_26	18770500	18771731	ASC_g10377.t1	PYCARD
scaffold_26	20057476	20072276	AT2A1_g10455.t1	ATP2A1
scaffold_26	35975124	36033234	MSTRG.10674.1	ATF7IP2
scaffold_26	36003555	36016201	MSTRG.10674.3	ATF7IP2
scaffold_26	20064694	20067420	MSTRG.10512.2	ATP2A1
scaffold_26	7061206	7068815	ATPK_g10180.t1	ATP5MF
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scaffold_26	20016448	20028727	MSTRG.10511.1	ATXN2L
scaffold_26	20016448	20028727	MSTRG.10511.2	ATXN2L
scaffold_26	20016448	20028727	MSTRG.10511.3	ATXN2L
scaffold_26	20016490	20028727	MSTRG.10511.4	ATXN2L
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scaffold_26	15657094	15744005	MSTRG.10411.5	AUTS2
scaffold_26	44531416	44587474	MSTRG.10842.1	AXIN1
scaffold_26	44578129	44587474	MSTRG.10842.3	AXIN1
scaffold_26	32097395	32143593	MSTRG.10643.1	B3GNT5
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scaffold_26	43628823	43629110	MSTRG.10809.3	BAIAP3
scaffold_26	43626902	43635701	BAIP3_g10768.t1	BAIAP3
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scaffold_26	11437364	11503301	MSTRG.10367.1	BAZ1B
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scaffold_26	18837408	18844377	MSTRG.10452.1	BCKDK
scaffold_26	11514182	11534803	BCL7B_g10311.t1	BCL7B
scaffold_26	19015549	19019486	BCL7C_g10395.t1	BCL7C
scaffold_26	19055201	19055403	MSTRG.10468.1	BCL7C
scaffold_26	32246828	32262612	BFAR_g10573.t1	BFAR
scaffold_26	32245325	32273419	MSTRG.10645.1	BFAR
scaffold_26	32245325	32273419	MSTRG.10645.2	BFAR
scaffold_26	17877073	17890866	BGLR_g10353.t1	GUSB
scaffold_26	6047971	6048534	BHA15_g10161.t1	BHLHA15
scaffold_26	6115357	6218391	BI2L1_g10165.t1	BAIAP2L1
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scaffold_26	19857129	19858126	MSTRG.10506.1	BOLA2B
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scaffold_26	2415472	2429165	MSTRG.10191.1	BRAT1
scaffold_26	2415928	2426244	MSTRG.10191.2	BRAT1
scaffold_26	2415928	2426244	MSTRG.10191.3	BRAT1
scaffold_26	19115163	19125931	BRE1B_g10397.t1	RNF40
scaffold_26	6102322	6113258	MSTRG.10240.2	BRI3
scaffold_26	6102420	6123546	MSTRG.10240.3	BRI3
scaffold_26	42334683	42338807	BSSP4_g10706.t1	PRSS22
scaffold_26	9141802	9148708	MSTRG.10318.1	BUB3
scaffold_26	9141802	9151014	MSTRG.10318.2	BUB3
scaffold_26	9141824	9151014	MSTRG.10318.3	BUB3
scaffold_26	11621875	11633558	BUD23_g10316.t1	BUD23
scaffold_26	7022366	7031012	BUD31_g10177.t1	BUD31
scaffold_26	7020361	7031012	MSTRG.10251.1	BUD31
scaffold_26	7020361	7031012	MSTRG.10251.2	BUD31
scaffold_26	18532818	18534271	MSTRG.10438.1	RUSF1
scaffold_26	5222264	5235534	MSTRG.10224.1	INTS15
scaffold_26	8699416	8703899	MSTRG.10294.1	TRAPPC14
scaffold_26	8861860	8872916	MSTRG.10301.1	SPACDR
scaffold_26	8861860	8872916	MSTRG.10301.2	SPACDR
scaffold_26	44279268	44281450	MSTRG.10833.1	METTL26
scaffold_26	42548370	42552822	MSTRG.10755.1	TEDC2
scaffold_26	42548447	42552822	MSTRG.10755.2	TEDC2
scaffold_26	37052919	37084114	MSTRG.10676.2	HAPSTR1
scaffold_26	43551866	43553969	CSMT1_g10763.t1	UQCC4
scaffold_26	43551882	43553969	MSTRG.10806.2	UQCC4
scaffold_26	35644130	35682019	C2TA_g10607.t1	CIITA
scaffold_26	783850	816828	MSTRG.10153.1	C7ORF50
scaffold_26	8857661	8860825	CG061_g10224.t1	SPACDR
scaffold_26	43722885	43792506	CAC1H_g10775.t1	CACNA1H
scaffold_26	43729656	43731929	MSTRG.10812.2	CACNA1H
scaffold_26	44353381	44367870	CAN15_g10811.t1	CAPN15
scaffold_26	44285973	44313793	MSTRG.10836.1	CAPN15
scaffold_26	44352051	44384588	MSTRG.10837.1	CAPN15
scaffold_26	44352051	44378380	MSTRG.10837.2	CAPN15
scaffold_26	44352071	44378380	MSTRG.10837.3	CAPN15
scaffold_26	44352071	44378380	MSTRG.10837.4	CAPN15
scaffold_26	44352072	44378380	MSTRG.10837.5	CAPN15
scaffold_26	37287346	37288611	MSTRG.10679.1	CARHSP1
scaffold_26	42807872	42812703	MSTRG.10768.3	CASKIN1
scaffold_26	42818088	42826485	MSTRG.10769.1	CASKIN1
scaffold_26	10318179	10343333	CASP_g10283.t1	CUX1
scaffold_26	12860377	12918700	CAST2_g10334.t1	CASTOR2

scaffold_26	12855031	12856614	MSTRG.10405.1	CASTOR2
scaffold_26	43532645	43540917	CC154_g10761.t1	CCDC154
scaffold_26	43532645	43540917	CC154_g10761.t2	CCDC154
scaffold_26	19126603	19130221	CC189_g10398.t1	CFAP119
scaffold_26	44188578	44192123	CCD78_g10789.t1	CCDC78
scaffold_26	19127316	19130221	MSTRG.10474.2	CFAP119
scaffold_26	11044227	11045737	CCL24_g10302.t1	CCL24
scaffold_26	42555492	42574254	ABCAH_g10715.t1	CCNF
scaffold_26	42552980	42574254	MSTRG.10756.1	CCNF
scaffold_26	29423246	29448095	MSTRG.10618.1	CCP110
scaffold_26	875638	876627	CCR6_g10084.t1	CCR6
scaffold_26	5805857	5830489	CCZ1_g10158.t1	CCZ1
scaffold_26	20088494	20093943	CD19_g10457.t1	CD19
scaffold_26	42524502	42524712	MSTRG.10751.1	CD33
scaffold_26	40742746	40746119	CDIP1_g10648.t1	CDIP1
scaffold_26	19607160	19609994	CDIPT_g10423.t1	CDIPT
scaffold_26	19610136	19615084	ENOL_g10424.t1	CDIPT
scaffold_26	28070649	28071025	MSTRG.10600.1	CDR2
scaffold_26	31669579	31684741	CEP20_g10562.t1	CEP20
scaffold_26	31669560	31686379	MSTRG.10635.1	CEP43
scaffold_26	8827170	8827604	CEP63_g10221.t1	CEP63
scaffold_26	5222858	5235534	CG026_g10144.t1	INTS15
scaffold_26	18025315	18029761	CHCH2_g10356.t1	CHCHD2
scaffold_26	9225772	9226218	CHD1_g10245.t1	CHD1
scaffold_26	44227257	44229595	CHIP_g10795.t1	STUB1
scaffold_26	25036513	25038980	CHP2_g10489.t1	CHP2
scaffold_26	37283430	37287293	CHSP1_g10620.t1	CARHSP1
scaffold_26	2211311	2212570	CHSTC_g10103.t1	CHST12
scaffold_26	44176512	44184326	CIAO3_g10787.t1	CIAO3
scaffold_26	35418257	35623767	CL16A_g10604.t1	CLEC16A
scaffold_26	43503301	43530517	CLCN7_g10760.t2	CLCN7
scaffold_26	43503242	43531011	MSTRG.10803.2	CLCN7
scaffold_26	9471571	9476243	CLD15_g10274.t1	CLDN15
scaffold_26	11718142	11718771	CLD4_g10320.t1	CLDN4
scaffold_26	9471205	9482039	MSTRG.10330.1	CLDN15
scaffold_26	9476004	9477584	MSTRG.10330.3	CLDN15
scaffold_26	35414429	35487861	MSTRG.10672.1	CLEC16A
scaffold_26	35414429	35623767	MSTRG.10672.2	CLEC16A
scaffold_26	35414429	35623767	MSTRG.10672.3	CLEC16A
scaffold_26	35414540	35623767	MSTRG.10672.4	CLEC16A
scaffold_26	35414540	35487861	MSTRG.10672.5	CLEC16A
scaffold_26	35414790	35600326	MSTRG.10672.6	CLEC16A
scaffold_26	12138310	12197214	CLIP2_g10329.t1	CLIP2
scaffold_26	12138310	12194556	MSTRG.10390.4	CLIP2
scaffold_26	12138310	12194556	MSTRG.10390.5	CLIP2

scaffold_26	12138310	12194556	MSTRG.10390.6	CLIP2
scaffold_26	19935416	19944872	CLN3_g10450.t1	CLN3
scaffold_26	19935088	19944872	MSTRG.10509.1	CLN3
scaffold_26	6957722	6958153	CND3_g10174.t1	NCAPG
scaffold_26	8531111	8535153	CNPY4_g10208.t1	CNPY4
scaffold_26	33381387	33403381	CO6A2_g10579.t1	COL6A2
scaffold_26	25270222	25349091	COG7_g10498.t1	COG7
scaffold_26	25311329	25349091	MSTRG.10562.2	COG7
scaffold_26	25313681	25349091	MSTRG.10562.3	COG7
scaffold_26	43667977	43670120	TITIN_g10771.t1	COL20A1
scaffold_26	29615513	29624794	COQ7_g10551.t1	COQ7
scaffold_26	19851022	19854852	COR1A_g10442.t1	CORO1A
scaffold_26	754055	760635	COX19_g10081.t1	COX19
scaffold_26	37060366	37084114	CP072_g10617.t1	HAPSTR1
scaffold_26	41618085	41619483	CP090_g10667.t1	C16ORF90
scaffold_26	40666449	40703696	CP096_g10647.t1	C16ORF96
scaffold_26	29425104	29444762	CP110_g10547.t1	CCP110
scaffold_26	769941	775968	CP2W1_g10082.t1	CYP2W1
scaffold_26	33995841	34105484	MSTRG.10650.1	CPPED1
scaffold_26	7045499	7060849	CPSF4_g10179.t1	CPSF4
scaffold_26	7045394	7060849	MSTRG.10249.1	CPSF4
scaffold_26	7045403	7060849	MSTRG.10249.2	CPSF4
scaffold_26	7052133	7060849	MSTRG.10249.4	CPSF4
scaffold_26	43312554	43381003	MSTRG.10800.1	CRAMP1
scaffold_26	17753700	17810707	MSTRG.10422.1	CRCP
scaffold_26	17755243	17810707	MSTRG.10422.2	CRCP
scaffold_26	41256356	41325801	MSTRG.10711.1	CREBBP
scaffold_26	41259343	41381431	MSTRG.10715.1	CREBBP
scaffold_26	41259354	41391478	MSTRG.10715.2	CREBBP
scaffold_26	44727906	44768090	MSTRG.10850.1	CREM
scaffold_26	43316271	43378593	CRML_g10755.t1	CRAMP1
scaffold_26	27096021	27111951	CRYM_g10526.t1	CRYM
scaffold_26	42818151	42834246	CSKI1_g10724.t1	CASKIN1
scaffold_26	8506375	8508854	CSN6_g10204.t1	COPS6
scaffold_26	19009192	19012954	MSTRG.10462.2	CTF1
scaffold_26	19008051	19008253	MSTRG.10464.1	CTF1
scaffold_26	19008913	19012954	CTF1_g10394.t1	CTF1
scaffold_26	19006990	19007454	CTF2_g10393.t1	CTF2
scaffold_26	10298473	10318178	CUX1_g10282.t1	CUX1
scaffold_26	9967241	10343333	MSTRG.10338.1	CUX2
scaffold_26	9967241	10343333	MSTRG.10338.2	CUX2
scaffold_26	9967321	10269528	MSTRG.10338.3	CUX2
scaffold_26	5501853	5595150	CYH3_g10152.t1	CYTH3
scaffold_26	44115812	44125717	CYLD_g10781.t1	CYLD
scaffold_26	511203	563363	DAAF5_g10077.t1	DNAAF5

scaffold_26	40544944	40555950	DAAF8_g10642.t1	DNAAF8
scaffold_26	26797761	26800039	DCNL3_g10518.t1	DCUN1D3
scaffold_26	25104834	25126070	DCTN5_g10492.t1	DCTN5
scaffold_26	19388123	19393458	DCTP1_g10410.t1	DCTPP1
scaffold_26	26792729	26829816	MSTRG.10580.1	DCUN1D3
scaffold_26	20956685	20973112	MSTRG.10524.4	DDN
scaffold_26	44480784	44486387	DECR2_g10814.t1	DECR2
scaffold_26	44479222	44486387	MSTRG.10841.1	DECR2
scaffold_26	44479246	44486387	MSTRG.10841.2	DECR2
scaffold_26	35626222	35626509	DEXI_g10605.t1	DEXI
scaffold_26	5348613	5385307	DGLB_g10148.t1	DAGLB
scaffold_26	10852380	10855706	MSTRG.10360.1	DHX57
scaffold_26	11620986	11621666	DJC30_g10315.t1	DNAJC30
scaffold_26	539076	563363	MSTRG.10147.2	DNAAF5
scaffold_26	27019442	27023798	TARSH_g10521.t1	DNAH3
scaffold_26	40794666	40831688	MSTRG.10698.1	DNAJA3
scaffold_26	40795264	40831688	MSTRG.10698.2	DNAJA3
scaffold_26	41459286	41462141	DNAS1_g10663.t1	DNASE1
scaffold_26	40796899	40831688	DNJA3_g10651.t1	DNAJA3
scaffold_26	42783353	42785090	DNSL2_g10719.t1	DNASE1L2
scaffold_26	19738084	19741983	DOC2A_g10432.t2	DOC2A
scaffold_26	10553573	10575925	DTX2_g10292.t1	DTX2
scaffold_26	10552499	10588791	MSTRG.10352.1	DTX2
scaffold_26	10553133	10588791	MSTRG.10352.2	DTX2
scaffold_26	26852861	27019171	DYH3_g10520.t1	DNAH3
scaffold_26	5669010	5699321	E2AK1_g10154.t1	EIF2AK1
scaffold_26	42786453	42796943	E4F1_g10720.t1	E4F1
scaffold_26	42785997	42796943	MSTRG.10765.1	E4F1
scaffold_26	42789065	42789470	MSTRG.10765.3	E4F1
scaffold_26	25192827	25214710	MSTRG.10560.1	EARS2
scaffold_26	42770523	42781700	ECI1_g10718.t1	ECI1
scaffold_26	42770505	42781700	ECI1_g10718.t2	ECI1
scaffold_26	42772356	42777762	MSTRG.10763.5	ECI1
scaffold_26	40259602	40275691	EF2KT_g10630.t1	EEF2KMT
scaffold_26	20031000	20034297	EFTU_g10453.t1	TUFM
scaffold_26	42576290	42682758	ABCAH_g10715.t2	EGLN3
scaffold_26	2085883	2115210	EIF3B_g10100.t1	EIF3B
scaffold_26	2085834	2117629	MSTRG.10186.1	EIF3B
scaffold_26	12015637	12041634	MSTRG.10387.1	EIF4H
scaffold_26	1456330	1458819	ELFN1_g10095.t1	ELFN1
scaffold_26	42253933	42258403	MSTRG.10743.1	ELOB
scaffold_26	42258564	42261709	MSTRG.10744.1	ELOB
scaffold_26	42253933	42258403	ELOB_g10701.t1	ELOB
scaffold_26	42258569	42261709	MSTRG.10744.2	ELOB
scaffold_26	43230110	43233198	EME2_g10749.t1	EME2

scaffold_26	43230520	43232927	MSTRG.10791.9	EME2
scaffold_26	35885371	35937249	EMP2_g10611.t1	EMP2
scaffold_26	35929592	35937249	MSTRG.10675.2	EMP2
scaffold_26	42402775	42480408	MSTRG.10745.1	ENOX1
scaffold_26	9115473	9130464	EPHB4_g10240.t1	EPHB4
scaffold_26	5323818	5341103	ERD22_g10147.t1	KDELR2
scaffold_26	26740404	26747031	ERI2_g10516.t1	ERI2
scaffold_26	25063246	25081232	ERN2_g10490.t1	ERN2
scaffold_26	588488	646987	MSTRG.10148.1	EXOC1
scaffold_26	7267697	7269518	F200A_g10185.t1	FAM200A
scaffold_26	5448961	5449743	F220A_g10151.t1	FAM220A
scaffold_26	44609378	44620858	F234A_g10822.t1	FAM234B
scaffold_26	66782	117546	FA20C_g10071.t1	FA20C
scaffold_26	43178146	43178811	FAHD1_g10744.t1	FAHD1
scaffold_26	7267448	7272234	MSTRG.10259.1	FAM200A
scaffold_26	66437	66781	MAGI3_g10070.t1	FAM20C
scaffold_26	65533	117546	MSTRG.10144.1	FAM20C
scaffold_26	44607830	44643470	MSTRG.10844.1	FAM234A
scaffold_26	19210377	19222847	MSTRG.10473.1	FBRS
scaffold_26	19210393	19222847	MSTRG.10473.2	FBRS
scaffold_26	18963642	18964635	MSTRG.10458.1	FBXL19
scaffold_26	18964946	18983926	MSTRG.10461.1	FBXL19
scaffold_26	18964949	18983926	MSTRG.10461.2	FBXL19
scaffold_26	11350708	11362739	FKBP6_g10308.t1	FKBP6
scaffold_26	42197836	42212116	MSTRG.10737.1	FLYWCH2
scaffold_26	9348391	9350706	TRI56_g10266.t1	FOLH1B
scaffold_26	4087917	4153632	FOXK1_g10118.t1	FOXK1
scaffold_26	4084860	4089630	MSTRG.10195.1	FOXK1
scaffold_26	4706727	4715337	FSCN1_g10128.t1	FSCN1
scaffold_26	18779961	18790583	FUS_g10378.t1	FUS
scaffold_26	18778621	18790583	MSTRG.10446.1	FUS
scaffold_26	42166370	42180903	FWCH1_g10695.t1	FWCH1
scaffold_26	44213421	44216823	FXL16_g10792.t1	FXL16
scaffold_26	4608485	4652536	FXL18_g10126.t1	FXL18
scaffold_26	18965200	18983581	FXL19_g10392.t1	FXL19
scaffold_26	11430775	11432550	FZD9_g10309.t1	FZD9
scaffold_26	8704537	8710002	G3ST4_g10215.t1	G3ST4
scaffold_26	31692198	31816994	MSTRG.10636.1	GALNT7
scaffold_26	9031035	9033763	GBB2_g10236.t1	GNB2
scaffold_26	9293096	9298597	GCN1_g10261.t1	GCN1
scaffold_26	44591438	44593715	GDIR3_g10820.t1	GDIR3
scaffold_26	19800612	19806668	GDPD3_g10440.t2	GDPD3
scaffold_26	648684	667520	GET4_g10079.t1	GET4
scaffold_26	667865	668330	MSTRG.10149.1	GET4
scaffold_26	43017115	43019945	MSTRG.10783.1	GFER

scaffold_26	25224878	25254200	GGA2_g10497.t1	GGA2
scaffold_26	9036217	9043196	GGYF1_g10237.t1	GIGYF1
scaffold_26	9034087	9048625	MSTRG.10312.1	GIGYF1
scaffold_26	9034087	9048286	MSTRG.10312.2	GIGYF1
scaffold_26	9035978	9048286	MSTRG.10312.3	GIGYF1
scaffold_26	40913482	40931394	GLIS2_g10655.t2	GLIS2
scaffold_26	40911398	40931952	MSTRG.10707.1	GLIS2
scaffold_26	43179323	43198671	GLO2_g10745.t1	GLO2
scaffold_26	40461582	40496097	GLYR1_g10638.t1	GLYR1
scaffold_26	40479660	40496444	MSTRG.10690.4	GLYR1
scaffold_26	2610046	2610810	GNA12_g10112.t2	GNA12
scaffold_26	9028584	9033763	MSTRG.10310.1	GNB2
scaffold_26	43607836	43623181	GNPTG_g10766.t1	GNPTG
scaffold_26	43606019	43623181	MSTRG.10804.1	GNPTG
scaffold_26	847920	848921	GP146_g10083.t1	GPR146
scaffold_26	461448	462419	GP161_g10075.t1	GPR161
scaffold_26	8711119	8717100	GPC2_g10216.t1	GPC2
scaffold_26	887665	888777	GPER1_g10085.t1	GPER1
scaffold_26	848973	849186	MSTRG.10158.1	GPR146
scaffold_26	29144822	29168118	MSTRG.10613.1	GPRC5B
scaffold_26	34769709	34828499	MSTRG.10660.1	GSPT1
scaffold_26	12272336	12350014	GT2D1_g10330.t1	GTF2IRD1
scaffold_26	12549850	12595753	GT2D2_g10333.t1	GT2D2
scaffold_26	12401542	12528396	MSTRG.10392.1	GTF2I
scaffold_26	12424211	12528396	MSTRG.10392.2	GTF2I
scaffold_26	12424219	12528396	MSTRG.10392.4	GTF2I
scaffold_26	12424211	12479588	GTF2I_g10331.t1	GTF2I
scaffold_26	12237938	12350014	MSTRG.10391.1	GTF2IRD1
scaffold_26	12237951	12350014	MSTRG.10391.2	GTF2IRD1
scaffold_26	12548805	12607484	MSTRG.10398.1	GTF2IRD2
scaffold_26	20779164	20821816	MSTRG.10531.1	GTF3C1
scaffold_26	20779204	20859008	MSTRG.10531.2	GTF3C1
scaffold_26	20779204	20830304	MSTRG.10531.3	GTF3C1
scaffold_26	7174168	7187300	MSTRG.10248.1	GUCY2C
scaffold_26	7174184	7187300	MSTRG.10248.2	GUCY2C
scaffold_26	7174372	7187300	MSTRG.10248.3	GUCY2C
scaffold_26	44184902	44187062	HAGHL_g10788.t1	HAGHL
scaffold_26	7010551	7020352	HAP28_g10176.t1	PDAP1
scaffold_26	44711114	44711937	HBA_g10825.t1	HBA
scaffold_26	42103337	42104398	MSTRG.10732.1	HCFC1R1
scaffold_26	11259307	11259524	MSTRG.10364.1	HIP1
scaffold_26	19725679	19728098	MSTRG.10498.1	HIRIP3
scaffold_26	19725998	19728480	HIRP3_g10430.t1	HIRP3
scaffold_26	40747519	40751093	HMOX2_g10649.t1	HMOX2
scaffold_26	40746810	40775180	MSTRG.10699.1	HMOX2

scaffold_26	42103338	42104398	HPIP_g10687.t1	HCFC1R1
scaffold_26	25724361	25807871	HS3S2_g10504.t1	HS3ST2
scaffold_26	25723778	25724161	MSTRG.10565.1	HS3ST2
scaffold_26	20770903	20771132	MSTRG.10530.1	HS3ST4
scaffold_26	18929112	18932785	MSTRG.10457.1	HSD3B7
scaffold_26	18929115	18932785	MSTRG.10457.2	HSD3B7
scaffold_26	10693831	10695348	HSPB1_g10295.t1	HSPB1
scaffold_26	43387529	43474443	IF140_g10756.t1	IFT140
scaffold_26	11836858	11837160	IF4B_g10323.t1	EIF4B
scaffold_26	9545312	9550336	IFT22_g10276.t1	IFT22
scaffold_26	26069702	26077007	IGSF6_g10508.t1	IGSF6
scaffold_26	20866566	20973112	MSTRG.10524.1	IL21R
scaffold_26	19729193	19737350	IN80E_g10431.t1	IN80E
scaffold_26	23958876	24126339	MSTRG.10543.1	INTS2
scaffold_26	23960262	23966568	MSTRG.10544.1	INTS2
scaffold_26	23960358	23966568	MSTRG.10544.2	INTS2
scaffold_26	9301218	9302558	IOD1_g10263.t1	IOD1
scaffold_26	29652635	29654233	IPIL2_g10552.t1	ITPRIPL2
scaffold_26	2359214	2412936	IQCE_g10108.t1	IQCE
scaffold_26	2357078	2359556	MSTRG.10190.1	IQCE
scaffold_26	29168900	29226552	IQCK_g10544.t1	IQCK
scaffold_26	8956000	8958168	IRS1_g10228.t1	IRS1
scaffold_26	8955976	8958168	IRS1_g10228.t2	IRS1
scaffold_26	34029575	34029793	ISPF_g10587.t1	ISPF
scaffold_26	19315180	19362212	ITAL_g10408.t1	ITGAL
scaffold_26	18641490	18659968	ITAX_g10374.t1	ITGAX
scaffold_26	9049481	9050709	MSTRG.10313.1	ITGAX
scaffold_26	29657293	29658846	MSTRG.10621.1	ITPRIPL2
scaffold_26	43237799	43289982	JIP3_g10752.t1	MAPK8IP3
scaffold_26	44225381	44227116	JMJD8_g10794.t1	JMJD8
scaffold_26	44225198	44227116	MSTRG.10829.4	JMJD8
scaffold_26	44227340	44229595	MSTRG.10830.3	JMJD8
scaffold_26	43292991	43311125	MSTRG.10794.1	JPT2
scaffold_26	43294583	43311125	MSTRG.10794.2	JPT2
scaffold_26	43295717	43311485	JUPI2_g10753.t1	JPT2
scaffold_26	363651	497524	KAP1_g10074.t1	KAP1
scaffold_26	18827524	18837367	KAT8_g10381.t1	KAT8
scaffold_26	20593385	20749820	KATIP_g10464.t1	KATIP
scaffold_26	12195095	12197214	MSTRG.10390.8	KCNJ12
scaffold_26	19648343	19653527	MSTRG.10496.2	KCTD13
scaffold_26	19648568	19653527	MSTRG.10496.3	KCTD13
scaffold_26	42375741	42402509	KCTD5_g10708.t1	KCTD5
scaffold_26	42373978	42391721	MSTRG.10742.1	KCTD5
scaffold_26	42375587	42402509	MSTRG.10742.2	KCTD5
scaffold_26	17485155	17491896	KCTD7_g10348.t1	KCTD7

scaffold_26	17484564	17484782	MSTRG.10419.1	KCTD7
scaffold_26	21052261	21066208	KDM8_g10469.t1	KDM8
scaffold_26	21034331	21049037	MSTRG.10532.2	KDM8
scaffold_26	21062233	21072167	MSTRG.10533.3	KDM8
scaffold_26	31851226	31891695	MSTRG.10640.1	MARF1
scaffold_26	31851226	31891695	MSTRG.10640.2	MARF1
scaffold_26	31857862	31876489	MSTRG.10640.5	MARF1
scaffold_26	20591322	20728916	MSTRG.10527.1	KATNIP
scaffold_26	20591322	20644647	MSTRG.10527.2	KATNIP
scaffold_26	20591332	20644647	MSTRG.10527.3	KATNIP
scaffold_26	20591348	20778990	MSTRG.10527.4	KATNIP
scaffold_26	20660485	20720779	MSTRG.10527.7	KATNIP
scaffold_26	2115607	2164132	KIF19_g10101.t1	KIF19
scaffold_26	19549644	19563533	KIF22_g10420.t1	KIF22
scaffold_26	19549632	19564908	MSTRG.10490.1	KIF22
scaffold_26	29284627	29299048	KNOP1_g10545.t1	KNOP1
scaffold_26	24681052	24945315	KPCB_g10487.t1	KPCB
scaffold_26	19767464	19773987	AMPQ_g10435.t1	KRTAP10-2
scaffold_26	43498689	43498917	MSTRG.10801.1	LAMP2
scaffold_26	18843649	18846454	LAP2A_g10383.t1	LAP2A
scaffold_26	20124419	20128031	LAT_g10460.t1	LAT
scaffold_26	22675994	22699477	MSTRG.10537.1	LCMT1
scaffold_26	24013089	24017271	MSTRG.10545.1	LCMT1
scaffold_26	24013089	24017271	MSTRG.10545.2	LCMT1
scaffold_26	27026909	27039993	LDAF1_g10523.t1	LDAF1
scaffold_26	41320085	41325801	LGI2_g10661.t1	LGI2
scaffold_26	11939711	11968625	LIMK1_g10325.t1	LIMK1
scaffold_26	37261354	37264756	LITAD_g10619.t1	LITAD
scaffold_26	35072679	35116803	LITAF_g10597.t1	LITAF
scaffold_26	43965886	44071616	LMF1_g10780.t1	LMF1
scaffold_26	43965890	44071616	MSTRG.10817.2	LMF1
scaffold_26	5947099	6044287	LMTK2_g10160.t1	LMTK2
scaffold_26	5946819	6045703	MSTRG.10238.2	LMTK2
scaffold_26	13104439	13104822	LOC000000005_g10335.t1	LOC000000005
scaffold_26	29941309	30020089	LOC000000006_g10555.t1	LOC000000006
scaffold_26	28911134	28911360	MSTRG.10606.1	LOC101396888
scaffold_26	7492452	7493861	NDK_g10192.t1	LOC101407841
scaffold_26	11542141	11542618	MSTRG.10370.1	LOC111767603
scaffold_26	8959780	8971447	MSTRG.10307.2	LRCH4
scaffold_26	10464455	10471186	LRWD1_g10287.t1	LRWD1
scaffold_26	10464419	10471186	MSTRG.10348.1	LRWD1
scaffold_26	10464798	10471186	MSTRG.10348.3	LRWD1
scaffold_26	8695748	8699326	LTOR4_g10213.t1	LTOR4
scaffold_26	44664148	44696413	MSTRG.10846.2	LUC7L
scaffold_26	44664150	44696413	MSTRG.10846.3	LUC7L

scaffold_26	44664271	44696413	LUC7L_g10823.t1	LUC7L
scaffold_26	44664025	44696413	MSTRG.10846.1	LUC7L
scaffold_26	26830096	26849758	LYRM1_g10519.t1	LYRM1
scaffold_26	26846539	26849758	MSTRG.10586.2	LYRM1
scaffold_26	1288529	1289945	MAFK_g10092.t1	MAFK
scaffold_26	1291251	1292421	MSTRG.10173.1	MAFK
scaffold_26	1279908	1289945	MSTRG.10174.1	MAFK
scaffold_26	12791784	12801754	MSTRG.10402.1	MAOA
scaffold_26	12791787	12800131	MSTRG.10402.2	MAOA
scaffold_26	19806947	19813775	MSTRG.10504.1	MAPK3
scaffold_26	43237421	43289982	MSTRG.10795.1	MAPK8IP3
scaffold_26	43237421	43289982	MSTRG.10795.2	MAPK8IP3
scaffold_26	43237480	43289982	MSTRG.10795.4	MAPK8IP3
scaffold_26	43237480	43289982	MSTRG.10795.5	MAPK8IP3
scaffold_26	19572178	19573765	MAZ_g10421.t2	MAZ
scaffold_26	19565193	19570190	MSTRG.10492.1	MAZ
scaffold_26	19565591	19570190	MSTRG.10492.2	MAZ
scaffold_26	8536065	8536877	MBLC1_g10209.t1	MBLAC1
scaffold_26	35976270	36016201	MCAF2_g10612.t1	ATF7IP2
scaffold_26	8510142	8517657	MCM7_g10205.t1	MCM7
scaffold_26	44260372	44265527	MSTRG.10827.1	MCRIP2
scaffold_26	1514991	1988416	MD1L1_g10096.t1	MD1L1
scaffold_26	10779182	10794224	MDHM_g10297.t1	MDH2
scaffold_26	41830228	41833954	MEFV_g10677.t1	MEFV
scaffold_26	41830228	41842238	MEFV_g10677.t2	MEFV
scaffold_26	43144524	43170971	MEIOB_g10743.t1	MEIOB
scaffold_26	8828692	8832928	MEPCE_g10222.t1	MEPCE
scaffold_26	8827357	8832928	MSTRG.10298.1	MEPCE
scaffold_26	37439575	37456241	MET22_g10625.t1	MET22
scaffold_26	11720733	11724405	MET27_g10321.t1	METTL27
scaffold_26	26067539	26067763	METL9_g10506.t1	METL9
scaffold_26	26067539	26110342	METL9_g10507.t1	METL9
scaffold_26	44197405	44199207	MSTRG.10825.2	METRN
scaffold_26	37439575	37459514	MSTRG.10684.1	METTL22
scaffold_26	37448506	37459514	MSTRG.10684.3	METTL22
scaffold_26	26065524	26110342	MSTRG.10571.1	METTL9
scaffold_26	40596660	40648139	MGRN1_g10645.t1	MGRN1
scaffold_26	40593309	40648139	MSTRG.10696.5	MGRN1
scaffold_26	40593309	40648139	MSTRG.10696.6	MGRN1
scaffold_26	1193728	1215598	MILK2_g10090.t1	MICALL2
scaffold_26	33750452	33751227	MIOX_g10584.t1	MIOX
scaffold_26	44236410	44242138	MIRO2_g10799.t1	RHOT2
scaffold_26	19808454	19813775	MK03_g10441.t2	MK03
scaffold_26	4935416	4941841	MK04_g10130.t1	MAPK4
scaffold_26	32582612	32761079	MSTRG.10648.1	MRTFB

scaffold_26	32582612	32761079	MSTRG.10648.2	MRTFB
scaffold_26	19420889	19423002	MLRS_g10414.t1	MLRS
scaffold_26	42807726	42811943	MSTRG.10768.1	MLST8
scaffold_26	42807726	42812945	MSTRG.10768.2	MLST8
scaffold_26	42805236	42807828	MSTRG.10767.1	MLST8
scaffold_26	11564780	11582506	MLXPL_g10313.t1	MLXPL
scaffold_26	8989457	8991438	MSTRG.10309.1	MOSPD3
scaffold_26	44767811	44773611	MSTRG.10852.1	MPG
scaffold_26	32050606	32058499	MERB1_g10566.t2	MPV17L
scaffold_26	1989804	1994254	MRM2_g10097.t1	MRM2
scaffold_26	1989253	1989483	MSTRG.10178.1	MRM2
scaffold_26	31502664	31627094	MRP1_g10561.t1	ABCC1
scaffold_26	31436140	31495123	MRP6_g10560.t1	MRP6
scaffold_26	44515732	44520739	MSTRG.10840.2	MRPL28
scaffold_26	43233264	43234733	MSTRG.10793.1	MRPS34
scaffold_26	32587912	32652415	MRTFB_g10575.t1	MRTFB
scaffold_26	8989457	8991438	MSPD3_g10233.t1	MOSPD3
scaffold_26	43052828	43057383	MSTRG.10781.1	MSRB1
scaffold_26	37051110	37084114	MSTRG.10676.1	MTHFS
scaffold_26	44279268	44281450	MTL26_g10803.t1	METTL26
scaffold_26	9254697	9268484	MSTRG.10322.9	MUC12
scaffold_26	9244718	9268484	MUC17_g10251.t1	MUC12
scaffold_26	9282085	9283098	MUC17_g10253.t1	MUC17
scaffold_26	19578167	19599605	MSTRG.10494.1	MVP
scaffold_26	19578167	19599605	MSTRG.10494.2	MVP
scaffold_26	19575585	19577782	MVP_g10422.t1	MVP
scaffold_26	19585428	19599605	MVP_g10422.t2	MVP
scaffold_26	19420889	19425760	MSTRG.10487.1	MYLPF
scaffold_26	41622327	41652123	MSTRG.10719.1	NAA60
scaffold_26	41622459	41652123	MSTRG.10719.2	NAA60
scaffold_26	40311735	40320174	NAGPA_g10633.t1	NAGPA
scaffold_26	12531044	12547952	NCF1_g10332.t1	NCF1
scaffold_26	10865782	10900965	NCPR_g10300.t1	NCPR
scaffold_26	31817062	31846640	MSTRG.10637.1	NDE1
scaffold_26	31817062	31846640	MSTRG.10637.2	NDE1
scaffold_26	31817458	31846640	MSTRG.10637.3	NDE1
scaffold_26	31819256	31846640	NDE1_g10564.t1	NDE1
scaffold_26	43235058	43236330	NDK3_g10751.t1	NME3
scaffold_26	9035982	9048286	MSTRG.10312.4	NDRG3
scaffold_26	43040122	43042607	NDUBA_g10739.t1	NDUBA
scaffold_26	25158154	25169013	MSTRG.10551.1	NDUFAB1
scaffold_26	43040118	43042607	MSTRG.10778.1	NDUFB10
scaffold_26	42540172	42542731	NET3_g10714.t1	NET3
scaffold_26	42548835	42552822	NET3_g10714.t2	NET3
scaffold_26	20099539	20107988	NF2IP_g10458.t1	NFATC2IP

scaffold_26	20109130	20109424	MSTRG.10518.1	NFATC2IP
scaffold_26	20108331	20108564	MSTRG.10519.1	NFATC2IP
scaffold_26	42970376	42981908	NHRF2_g10730.t1	SLC9A3R2
scaffold_26	18139179	18168750	NIPS2_g10361.t1	NIPSNAP2
scaffold_26	18138113	18168750	MSTRG.10432.1	NIPSNAP2
scaffold_26	36191272	36591171	NMDE1_g10615.t1	GRIN2A
scaffold_26	43235048	43236330	MSTRG.10790.1	NME3
scaffold_26	43235238	43236330	MSTRG.10790.3	NME3
scaffold_26	44487237	44491790	MSTRG.10839.1	NME4
scaffold_26	40780149	40789529	MSTRG.10700.2	NMRAL1
scaffold_26	40775311	40775624	MSTRG.10701.1	NMRAL1
scaffold_26	40780275	40789529	MSTRG.10700.3	NMRAL1
scaffold_26	40780593	40789529	NMRL1_g10650.t1	NMRL1
scaffold_26	31382705	31436047	MSTRG.10631.1	NOMO1
scaffold_26	31383923	31436047	NOMO1_g10559.t1	NOMO1
scaffold_26	2190734	2211272	ARH40_g10102.t1	ARH40_g10102.t1
scaffold_26	41998195	42003828	IL32_g10683.t1	IL32_g10683.t1
scaffold_26	44265765	44269681	K1C40_g10802.t1	K1C40_g10802.t1
scaffold_26	9291647	9292576	LOC000000003_g10260.t1	LOC000000003_g10260.t1
scaffold_26	33424230	33445128	METRN_g10580.t1	METRN_g10580.t1
scaffold_26	16133	26288	MSTRG.10142.1	MSTRG.10142.1
scaffold_26	16133	26288	MSTRG.10142.2	MSTRG.10142.2
scaffold_26	85	5530	MSTRG.10143.1	MSTRG.10143.1
scaffold_26	310596	332096	MSTRG.10145.1	MSTRG.10145.1
scaffold_26	748974	755724	MSTRG.10151.1	MSTRG.10151.1
scaffold_26	748974	760635	MSTRG.10151.2	MSTRG.10151.2
scaffold_26	748974	760635	MSTRG.10151.3	MSTRG.10151.3
scaffold_26	748974	760635	MSTRG.10151.4	MSTRG.10151.4
scaffold_26	782607	783681	MSTRG.10152.1	MSTRG.10152.1
scaffold_26	812885	816828	MSTRG.10153.2	MSTRG.10153.2
scaffold_26	781157	781391	MSTRG.10154.1	MSTRG.10154.1
scaffold_26	873534	873735	MSTRG.10155.1	MSTRG.10155.1
scaffold_26	839982	840210	MSTRG.10156.1	MSTRG.10156.1
scaffold_26	852510	852843	MSTRG.10159.1	MSTRG.10159.1
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scaffold_26	879426	880770	MSTRG.10163.1	MSTRG.10163.1
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scaffold_26	908733	908937	MSTRG.10168.1	MSTRG.10168.1
scaffold_26	910869	911073	MSTRG.10169.1	MSTRG.10169.1
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scaffold_26	2009328	2052600	MSTRG.10183.2	MSTRG.10183.2
scaffold_26	2213833	2214123	MSTRG.10185.1	MSTRG.10185.1
scaffold_26	2471465	2591832	MSTRG.10192.1	MSTRG.10192.1

scaffold_26	2471465	2591832	MSTRG.10192.2	MSTRG.10192.2
scaffold_26	3057422	3057654	MSTRG.10194.1	MSTRG.10194.1
scaffold_26	4397620	4398528	MSTRG.10198.1	MSTRG.10198.1
scaffold_26	4603683	4603915	MSTRG.10200.1	MSTRG.10200.1
scaffold_26	4606829	4607696	MSTRG.10201.1	MSTRG.10201.1
scaffold_26	4604255	4604767	MSTRG.10202.1	MSTRG.10202.1
scaffold_26	4554178	4564768	MSTRG.10203.1	MSTRG.10203.1
scaffold_26	4562164	4564768	MSTRG.10203.2	MSTRG.10203.2
scaffold_26	4605310	4606150	MSTRG.10204.1	MSTRG.10204.1
scaffold_26	4546729	4547792	MSTRG.10206.1	MSTRG.10206.1
scaffold_26	4717766	4729968	MSTRG.10207.1	MSTRG.10207.1
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scaffold_26	4622108	4652536	MSTRG.10211.2	MSTRG.10211.2
scaffold_26	4622683	4640511	MSTRG.10211.3	MSTRG.10211.3
scaffold_26	4624139	4652536	MSTRG.10211.4	MSTRG.10211.4
scaffold_26	4735213	4899552	MSTRG.10212.1	MSTRG.10212.1
scaffold_26	4735389	4899552	MSTRG.10212.3	MSTRG.10212.3
scaffold_26	4735389	4899552	MSTRG.10212.4	MSTRG.10212.4
scaffold_26	5055974	5056277	MSTRG.10215.1	MSTRG.10215.1
scaffold_26	5053549	5053778	MSTRG.10216.1	MSTRG.10216.1
scaffold_26	5030128	5036535	MSTRG.10217.1	MSTRG.10217.1
scaffold_26	5077434	5097747	MSTRG.10218.1	MSTRG.10218.1
scaffold_26	5098820	5099159	MSTRG.10219.1	MSTRG.10219.1
scaffold_26	5113222	5113426	MSTRG.10220.1	MSTRG.10220.1
scaffold_26	5115428	5115633	MSTRG.10221.1	MSTRG.10221.1
scaffold_26	5596889	5597774	MSTRG.10231.1	MSTRG.10231.1
scaffold_26	5668943	5699321	MSTRG.10233.1	MSTRG.10233.1
scaffold_26	5683198	5699321	MSTRG.10233.3	MSTRG.10233.3
scaffold_26	5807102	5808959	MSTRG.10237.2	MSTRG.10237.2
scaffold_26	5946819	6045703	MSTRG.10238.1	MSTRG.10238.1
scaffold_26	5946823	6045703	MSTRG.10238.3	MSTRG.10238.3
scaffold_26	6765650	6767072	MSTRG.10243.1	MSTRG.10243.1
scaffold_26	6799879	6817505	MSTRG.10244.1	MSTRG.10244.1
scaffold_26	7162916	7163118	MSTRG.10246.1	MSTRG.10246.1
scaffold_26	7158031	7158239	MSTRG.10247.1	MSTRG.10247.1
scaffold_26	6957475	6957679	MSTRG.10254.1	MSTRG.10254.1
scaffold_26	7003559	7004426	MSTRG.10257.1	MSTRG.10257.1
scaffold_26	7274554	7274764	MSTRG.10260.1	MSTRG.10260.1
scaffold_26	7289379	7304937	MSTRG.10263.1	MSTRG.10263.1
scaffold_26	8231085	8231397	MSTRG.10271.1	MSTRG.10271.1
scaffold_26	8250164	8250504	MSTRG.10274.1	MSTRG.10274.1
scaffold_26	8265328	8266553	MSTRG.10276.1	MSTRG.10276.1
scaffold_26	8292659	8318974	MSTRG.10279.1	MSTRG.10279.1
scaffold_26	8292659	8318974	MSTRG.10279.2	MSTRG.10279.2
scaffold_26	8292659	8314425	MSTRG.10279.3	MSTRG.10279.3

scaffold_26	8292696	8318974	MSTRG.10279.4	MSTRG.10279.4
scaffold_26	8472938	8473169	MSTRG.10281.1	MSTRG.10281.1
scaffold_26	8478313	8492592	MSTRG.10283.1	MSTRG.10283.1
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scaffold_26	8567012	8574954	MSTRG.10290.1	MSTRG.10290.1
scaffold_26	8549291	8549501	MSTRG.10291.1	MSTRG.10291.1
scaffold_26	8704051	8710002	MSTRG.10295.1	MSTRG.10295.1
scaffold_26	8704051	8710002	MSTRG.10295.2	MSTRG.10295.2
scaffold_26	9051104	9051859	MSTRG.10314.1	MSTRG.10314.1
scaffold_26	9052658	9052941	MSTRG.10315.1	MSTRG.10315.1
scaffold_26	9155214	9155596	MSTRG.10316.1	MSTRG.10316.1
scaffold_26	9244678	9268484	MSTRG.10322.1	MSTRG.10322.1
scaffold_26	9244678	9268484	MSTRG.10322.2	MSTRG.10322.2
scaffold_26	9244678	9268484	MSTRG.10322.3	MSTRG.10322.3
scaffold_26	9244678	9268484	MSTRG.10322.4	MSTRG.10322.4
scaffold_26	9244681	9268484	MSTRG.10322.6	MSTRG.10322.6
scaffold_26	9244681	9268484	MSTRG.10322.7	MSTRG.10322.7
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scaffold_26	9528838	9529285	MSTRG.10331.1	MSTRG.10331.1
scaffold_26	9529289	9533457	MSTRG.10332.1	MSTRG.10332.1
scaffold_26	9530043	9530366	MSTRG.10333.1	MSTRG.10333.1
scaffold_26	10374554	10374762	MSTRG.10336.1	MSTRG.10336.1
scaffold_26	10429243	10429444	MSTRG.10340.1	MSTRG.10340.1
scaffold_26	10400241	10427991	MSTRG.10341.1	MSTRG.10341.1
scaffold_26	10455702	10455984	MSTRG.10344.1	MSTRG.10344.1
scaffold_26	10456379	10456644	MSTRG.10345.1	MSTRG.10345.1
scaffold_26	10441307	10452630	MSTRG.10346.1	MSTRG.10346.1
scaffold_26	10533099	10537855	MSTRG.10350.1	MSTRG.10350.1
scaffold_26	10682283	10682576	MSTRG.10353.1	MSTRG.10353.1
scaffold_26	10794796	10865183	MSTRG.10359.1	MSTRG.10359.1
scaffold_26	10858650	10865183	MSTRG.10359.4	MSTRG.10359.4
scaffold_26	10858736	10863836	MSTRG.10359.5	MSTRG.10359.5
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scaffold_26	11547127	11547357	MSTRG.10369.1	MSTRG.10369.1
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scaffold_26	11548350	11558346	MSTRG.10372.1	MSTRG.10372.1
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scaffold_26	12570716	12607484	MSTRG.10398.3	MSTRG.10398.3
scaffold_26	12756287	12756502	MSTRG.10399.1	MSTRG.10399.1
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scaffold_26	12787404	12789352	MSTRG.10401.1	MSTRG.10401.1
scaffold_26	12820353	12823131	MSTRG.10404.1	MSTRG.10404.1
scaffold_26	12987832	12988371	MSTRG.10406.1	MSTRG.10406.1
scaffold_26	12866352	12866637	MSTRG.10408.1	MSTRG.10408.1
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scaffold_26	19696110	19705842	MSTRG.10497.3	MSTRG.10497.3
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scaffold_26	19956962	19975808	MSTRG.10510.2	MSTRG.10510.2
scaffold_26	19956962	19966781	MSTRG.10510.3	MSTRG.10510.3
scaffold_26	19956965	19975808	MSTRG.10510.4	MSTRG.10510.4
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scaffold_26	23897218	23924530	MSTRG.10538.2	MSTRG.10538.2
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scaffold_26	25101745	25101946	MSTRG.10556.1	MSTRG.10556.1
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scaffold_26	25751005	25751225	MSTRG.10568.1	MSTRG.10568.1
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scaffold_26	26747100	26787208	MSTRG.10583.2	MSTRG.10583.2
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scaffold_26	44115019	44126824	MSTRG.10819.4	MSTRG.10819.4
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scaffold_26	21048308	21071741	MSTRG.10533.1	NSMCE1
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scaffold_26	43217288	43223345	MSTRG.10791.1	NUBP2
scaffold_26	43217288	43222857	MSTRG.10791.2	NUBP2
scaffold_26	43217319	43233198	MSTRG.10791.3	NUBP2
scaffold_26	43217395	43223345	MSTRG.10791.4	NUBP2
scaffold_26	43217395	43221366	MSTRG.10791.5	NUBP2

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scaffold_26	18959174	18963321	ORAI3_g10391.t1	ORAI3
scaffold_26	4087829	4157901	MSTRG.10196.1	OTOG
scaffold_26	32226218	32243592	PA2GX_g10572.t1	PLA2G10
scaffold_26	25126167	25149676	MSTRG.10557.1	PALB2
scaffold_26	25126345	25149676	PALB2_g10493.t1	PALB2
scaffold_26	40842213	40901233	MSTRG.10703.1	PAM16
scaffold_26	40903430	40910605	MSTRG.10703.4	PAM16
scaffold_26	40903430	40910605	MSTRG.10703.5	PAM16
scaffold_26	4252383	4254311	PAPOB_g10121.t1	PAPOLB
scaffold_26	42150351	42152772	PAQR4_g10693.t1	PAQR4
scaffold_26	4287611	4322859	PAQRA_g10122.t2	PAQRA
scaffold_26	11720733	11724829	MSTRG.10382.1	PARVA
scaffold_26	8982459	8987746	PCOC1_g10232.t1	PCOC1
scaffold_26	8984344	8987746	MSTRG.10308.2	PCOLCE
scaffold_26	17399618	17466100	PDIA2_g10347.t1	PDIA2
scaffold_26	44587989	44591071	PDIA2_g10819.t1	PDIA2
scaffold_26	28130693	28131473	PDILT_g10538.t1	PDILT
scaffold_26	42444007	42450807	MSTRG.10745.3	PDPK1
scaffold_26	32075693	32127749	PDXD1_g10567.t1	PDXDC1
scaffold_26	27756343	27768940	PDZD9_g10531.t1	PDZD9
scaffold_26	40380130	40422636	PEPL_g10636.t1	PPL
scaffold_26	40277930	40287775	MSTRG.10687.3	PEX3
scaffold_26	44505629	44514317	PGAP6_g10816.t1	PGAP6
scaffold_26	5840	6259	MSTRG.10138.1	PGBP
scaffold_26	42802332	42804113	PGP_g10721.t1	PGP
scaffold_26	42805485	42807828	PGP_g10721.t2	PGP

scaffold_26	18034892	18041047	PHKG1_g10357.t1	PHKG1
scaffold_26	19130211	19186002	MSTRG.10475.1	PHKG2
scaffold_26	19130465	19143816	MSTRG.10475.2	PHKG2
scaffold_26	42190062	42192177	PHLB2_g10696.t1	PHLDB2
scaffold_26	44320514	44335089	MSTRG.10835.1	PIGQ
scaffold_26	42875227	42923396	MSTRG.10774.2	PKD1
scaffold_26	42140210	42149845	MSTRG.10734.1	PKMYT1
scaffold_26	37290947	37320172	MSTRG.10681.1	PMM2
scaffold_26	37291180	37320172	MSTRG.10681.2	PMM2
scaffold_26	37292690	37320172	PMM2_g10621.t1	PMM2
scaffold_26	5711325	5730929	MSTRG.10236.1	PMS2
scaffold_26	42145141	42149845	PMYT1_g10692.t1	PKMYT1
scaffold_26	28012197	28026922	MSTRG.10598.2	POLR3E
scaffold_26	28012257	28026328	MSTRG.10598.3	POLR3E
scaffold_26	18812106	18820738	POLS2_g10379.t1	PRSS36
scaffold_26	9056501	9057620	MSTRG.10311.1	POP7
scaffold_26	10865454	10936747	MSTRG.10361.3	POR
scaffold_26	10865366	10936813	MSTRG.10361.1	POR
scaffold_26	10865447	10936813	MSTRG.10361.2	POR
scaffold_26	10865454	10936747	MSTRG.10361.4	POR
scaffold_26	40410108	40423069	MSTRG.10688.2	PPL
scaffold_26	8834131	8835248	MSTRG.10299.1	PPP1R35
scaffold_26	19782266	19790347	MSTRG.10502.1	PPP4C
scaffold_26	19782266	19790347	MSTRG.10502.2	PPP4C
scaffold_26	35347614	35347877	PRM3_g10600.t2	PRM3
scaffold_26	19223742	19229122	MSTRG.10478.1	PRR14
scaffold_26	19224441	19229841	MSTRG.10478.2	PRR14
scaffold_26	19224501	19228536	PRR14_g10401.t1	PRR14
scaffold_26	42362370	42369367	PRS27_g10707.t1	PRS27
scaffold_26	18812740	18820738	MSTRG.10447.2	PRSS36
scaffold_26	18853668	18853983	MSTRG.10448.1	PRSS53
scaffold_26	18823275	18826445	PRSS8_g10380.t1	PRSS8
scaffold_26	18823194	18826445	PRSS8_g10380.t2	PRSS8
scaffold_26	1313078	1315168	MSTRG.10177.1	PSMG3
scaffold_26	1313515	1314510	PSMG3_g10094.t1	PSMG3
scaffold_26	18115043	18133382	MSTRG.10431.1	PSPH
scaffold_26	18130135	18133382	MSTRG.10431.3	PSPH
scaffold_26	7031020	7035827	MSTRG.10252.1	PTCD1
scaffold_26	42987279	42987820	PTGR3_g10731.t1	PTGR3
scaffold_26	43497242	43497946	PTX4_g10759.t1	PTX4
scaffold_26	8748156	8749432	PVRIG_g10219.t1	PVRIG
scaffold_26	27731212	27755265	QCR2_g10530.t1	UQCRC2
scaffold_26	33633817	33637901	QORL1_g10581.t1	QORL1
scaffold_26	5733376	5802814	R10B1_g10157.t1	RSPH10B
scaffold_26	44383083	44467454	MSTRG.10837.9	RAB11FIP3

scaffold_26	42854962	42856860	MSTRG.10771.1	RAB26
scaffold_26	42856858	42862365	RAB26_g10726.t1	RAB26
scaffold_26	44320516	44331822	MSTRG.10835.2	RAB40C
scaffold_26	20073482	20084445	RABE2_g10456.t1	RABE2
scaffold_26	20073003	20073375	MSTRG.10514.1	RABEP2
scaffold_26	17397175	17466100	MSTRG.10420.1	RABGEF1
scaffold_26	17397294	17466100	MSTRG.10420.2	RABGEF1
scaffold_26	5390656	5410840	RAC1_g10149.t1	RAC1
scaffold_26	4178006	4266222	RADIL_g10120.t1	RADIL
scaffold_26	8251310	8252906	MSTRG.10275.1	RALGDS
scaffold_26	8944055	8944311	MSTRG.10304.1	RASGRF2
scaffold_26	10480329	10504500	RASL2_g10289.t1	RASA4
scaffold_26	44287672	44313283	RB40C_g10805.t1	RB40C
scaffold_26	4989772	5011512	MSTRG.10213.1	RBAK
scaffold_26	4995130	5009823	RBAK_g10134.t1	RBAK
scaffold_26	24424795	24458716	MSTRG.10550.1	RBBP6
scaffold_26	24427084	24458716	RBBP6_g10485.t1	RBBP6
scaffold_26	8234842	8235078	TB182_g10198.t1	RCC1L
scaffold_26	8202337	8203672	MSTRG.10270.1	RCC1L
scaffold_26	8207269	8224016	MSTRG.10272.1	RCC1L
scaffold_26	35406847	35407225	RELL1_g10603.t1	RELL1
scaffold_26	26747522	26787208	REXO5_g10517.t1	REXO5
scaffold_26	12069715	12088484	RFC2_g10328.t1	RFC2
scaffold_26	44384589	44467454	RFIP3_g10813.t1	RFIP3
scaffold_26	18448548	18448809	MSTRG.10436.1	RGL1
scaffold_26	44596117	44607009	MSTRG.10843.1	RGS11
scaffold_26	44596117	44607009	MSTRG.10843.2	RGS11
scaffold_26	44596119	44607009	MSTRG.10843.3	RGS11
scaffold_26	44596149	44606462	RGS11_g10821.t1	RGS11
scaffold_26	10976236	10987229	RHBD2_g10301.t1	RHBD2
scaffold_26	44782552	44797883	MSTRG.10854.1	RHBDF1
scaffold_26	44782557	44797883	MSTRG.10854.3	RHBDF1
scaffold_26	44782552	44797883	MSTRG.10854.2	RHBDF1
scaffold_26	44782583	44797883	MSTRG.10854.4	RHBDF1
scaffold_26	44229596	44242138	MSTRG.10830.4	RHBDL1
scaffold_26	44230540	44242138	MSTRG.10830.6	RHBDL1
scaffold_26	44231685	44242138	MSTRG.10830.8	RHBDL1
scaffold_26	44227142	44242138	MSTRG.10830.1	RHBDL1
scaffold_26	44231828	44236023	RHBL1_g10798.t1	RHBDL1
scaffold_26	44791019	44797883	RHDF1_g10829.t1	RHDF1
scaffold_26	24032635	24126339	RHG17_g10482.t1	ARHGAP17
scaffold_26	44237827	44242138	MSTRG.10830.11	RHOT2
scaffold_26	34815551	34828499	RL1D1_g10593.t1	RSL1D1
scaffold_26	43043572	43052387	RL3L_g10740.t1	RPL3L
scaffold_26	44515629	44520739	RM28_g10817.t1	MRPL28

scaffold_26	35297008	35297584	MSTRG.10668.2	RMI2
scaffold_26	35297016	35300637	RMI2_g10599.t1	RMI2
scaffold_26	43034062	43035781	RN151_g10737.t1	RNF151
scaffold_26	4735213	4883453	RN216_g10129.t1	RNF216
scaffold_26	19113110	19126089	MSTRG.10472.1	RNF40
scaffold_26	19113110	19126089	MSTRG.10472.2	RNF40
scaffold_26	42758752	42768979	MSTRG.10757.1	RNPS1
scaffold_26	42758765	42768979	MSTRG.10757.2	RNPS1
scaffold_26	42762291	42768979	RNPS1_g10717.t1	RNPS1
scaffold_26	40497031	40502476	ROGDI_g10639.t1	ROGDI
scaffold_26	42489403	42489639	RON_g10710.t1	MST1R
scaffold_26	10472047	10476070	RPB11_g10288.t1	RPB11
scaffold_26	44801538	44804365	RPC10_g10831.t1	POLR3K
scaffold_26	28012189	28046243	RPC5_g10536.t1	POLR3E
scaffold_26	30038732	30045458	MSTRG.10626.1	RPS15A
scaffold_26	43037996	43039944	MSTRG.10777.1	RPS2
scaffold_26	44141176	44144638	MSTRG.10822.1	RPUSD1
scaffold_26	32148474	32155630	MSTRG.10644.2	RRN3
scaffold_26	32147195	32174360	RRN3_g10569.t1	RRN3
scaffold_26	8955018	8955248	MSTRG.10305.1	RS1
scaffold_26	30039794	30045458	RS15A_g10557.t2	RS15A
scaffold_26	43037996	43039944	RS2_g10738.t1	RS2
scaffold_26	18172484	18175117	RT17_g10362.t1	MRPS17
scaffold_26	43233273	43234733	RT34_g10750.t1	RT34
scaffold_26	44141980	44144638	RUSD1_g10784.t1	RPUSD1
scaffold_26	18518403	18532821	RUSF1_g10366.t1	RUSF1
scaffold_26	18518607	18532821	RUSF1_g10366.t2	RUSF1
scaffold_26	9142691	9151014	S12A9_g10241.t1	S12A9
scaffold_26	42798010	42798564	MSTRG.10766.1	S1PR2
scaffold_26	4359604	4395966	S29A4_g10123.t1	S29A4
scaffold_26	4443873	4456548	S29A4_g10123.t2	S29A4
scaffold_26	8958735	8960228	SAP25_g10229.t1	SAP25
scaffold_26	17270208	17274510	SBDS_g10345.t1	SBDS
scaffold_26	20161496	20165082	SBK1_g10461.t1	SBK1
scaffold_26	18533140	18538910	SC5A2_g10367.t1	SC5A2
scaffold_26	18674232	18716351	SC65_g10375.t1	SC65
scaffold_26	8550936	8553278	SCNNA_g10210.t1	SCNN1A
scaffold_26	25353829	25377316	SCNNB_g10501.t1	SCNN1B
scaffold_26	25472107	25497117	SCNNG_g10502.t1	SCNN1G
scaffold_26	2936076	3744607	SDK1_g10115.t1	SDK1
scaffold_26	3750693	3849608	SDK1_g10116.t1	SDK1
scaffold_26	18127534	18133382	SERB_g10360.t1	PSPH
scaffold_26	18933909	18955420	SET1A_g10390.t1	SET1A
scaffold_26	18933909	18957273	MSTRG.10459.3	SETD1A
scaffold_26	18937262	18963321	MSTRG.10459.5	SETD1A

scaffold_26	18937262	18957273	MSTRG.10459.6	SETD1A
scaffold_26	18937262	18963321	MSTRG.10459.7	SETD1A
scaffold_26	18933236	18963321	MSTRG.10459.1	SETD1A
scaffold_26	18933236	18957273	MSTRG.10459.2	SETD1A
scaffold_26	19865452	19895282	MSTRG.10508.1	SGF29
scaffold_26	19865497	19895282	MSTRG.10508.2	SGF29
scaffold_26	20044099	20053246	MSTRG.10513.1	SH2B1
scaffold_26	20045194	20053246	MSTRG.10513.3	SH2B1
scaffold_26	20044999	20053246	SH2B1_g10454.t1	SH2B1
scaffold_26	10344535	10368827	SH2B2_g10284.t1	SH2B2
scaffold_26	11619087	11620312	MSTRG.10375.1	SHC4
scaffold_26	5434181	5448899	SIL2B_g10150.t1	SMIM10L2B
scaffold_26	12804719	12808608	MSTRG.10403.1	SLC34A1
scaffold_26	12804971	12810133	MSTRG.10403.2	SLC34A1
scaffold_26	12805041	12811649	MSTRG.10403.3	SLC34A1
scaffold_26	42539098	42539328	MSTRG.10753.1	SLC41A3
scaffold_26	42969420	42981908	MSTRG.10773.1	SLC9A3
scaffold_26	42969424	42981908	MSTRG.10773.2	SLC9A3
scaffold_26	19858253	19860947	SLX1_g10444.t1	SLX1A
scaffold_26	19858114	19865361	MSTRG.10507.1	SLX1A
scaffold_26	41259617	41381431	MSTRG.10715.4	SLX4
scaffold_26	41510384	41533004	MSTRG.10716.1	SLX4
scaffold_26	41512768	41533004	SLX4_g10664.t1	SLX4
scaffold_26	41512765	41533004	SLX4_g10664.t2	SLX4
scaffold_26	29916867	30023847	MSTRG.10629.1	SMG1
scaffold_26	29916868	30023847	MSTRG.10629.2	SMG1
scaffold_26	6716535	6824786	SMUF1_g10172.t1	SMURF1
scaffold_26	6712641	6824786	MSTRG.10242.1	SMURF1
scaffold_26	6712689	6756084	MSTRG.10242.2	SMURF1
scaffold_26	43011668	43014610	SNG3_g10733.t1	SNG3
scaffold_26	34996741	35005625	MSTRG.10664.1	SNN
scaffold_26	44798751	44801359	SNR25_g10830.t1	SNR25
scaffold_26	34180726	34181892	MSTRG.10649.1	SNX29
scaffold_26	34183382	34183595	MSTRG.10654.1	SNX29
scaffold_26	34186595	34692451	SNX29_g10589.t1	SNX29
scaffold_26	2010248	2052600	SNX8_g10099.t1	SNX8
scaffold_26	35363154	35364888	MSTRG.10669.1	SOCS1
scaffold_26	35363877	35364888	SOCS1_g10602.t1	SOCS1
scaffold_26	40774580	40789529	MSTRG.10700.1	SPATA31D1
scaffold_26	20115108	20123523	MSTRG.10520.1	SPNS1
scaffold_26	20115577	20123523	MSTRG.10520.2	SPNS1
scaffold_26	20116075	20123523	SPNS1_g10459.t1	SPNS1
scaffold_26	43223112	43230104	MSTRG.10792.1	SPSB3
scaffold_26	43224789	43230104	SPSB3_g10748.t1	SPSB3
scaffold_26	43223464	43230104	MSTRG.10792.2	SPSB3

scaffold_26	43223490	43230104	MSTRG.10792.3	SPSB3
scaffold_26	10624008	10632308	SRB4D_g10293.t2	SSC4D
scaffold_26	40986469	41021830	SRCA_g10657.t1	SRCA
scaffold_26	19146003	19186002	MSTRG.10475.10	SRCAP
scaffold_26	19144560	19186002	MSTRG.10475.7	SRCAP
scaffold_26	19146003	19186002	MSTRG.10475.9	SRCAP
scaffold_26	19147056	19148696	SRCAP_g10400.t1	SRCAP
scaffold_26	42235097	42252967	MSTRG.10739.1	SRRM2
scaffold_26	42235097	42252967	MSTRG.10739.2	SRRM2
scaffold_26	42235105	42252967	MSTRG.10739.3	SRRM2
scaffold_26	42235105	42252967	MSTRG.10739.4	SRRM2
scaffold_26	42238538	42252967	MSTRG.10739.5	SRRM2
scaffold_26	42238538	42241916	SRRM2_g10699.t1	SRRM2
scaffold_26	9155882	9167068	MSTRG.10320.1	SRRT
scaffold_26	9155882	9167068	MSTRG.10320.2	SRRT
scaffold_26	9155882	9167068	MSTRG.10320.3	SRRT
scaffold_26	9155882	9167068	MSTRG.10320.4	SRRT
scaffold_26	9155935	9167068	MSTRG.10320.5	SRRT
scaffold_26	9155935	9167068	MSTRG.10320.6	SRRT
scaffold_26	9156433	9167068	MSTRG.10320.7	SRRT
scaffold_26	9151468	9154947	SRRT_g10242.t1	SRRT
scaffold_26	9156433	9167068	SRRT_g10242.t2	SRRT
scaffold_26	19862914	19865361	ST1A1_g10446.t1	SULT1A1
scaffold_26	11636465	11639807	MSTRG.10381.3	STX1A
scaffold_26	18909577	18925617	STX1B_g10388.t1	STX1B
scaffold_26	18891927	18897612	MSTRG.10456.1	STX4
scaffold_26	10794796	10858649	STYL1_g10298.t1	STYL1
scaffold_26	19861025	19865361	MSTRG.10507.3	SULT1C4
scaffold_26	19863197	19865361	MSTRG.10507.6	SULT1C4
scaffold_26	18041280	18053497	MSTRG.10429.1	SUMF2
scaffold_26	18042222	18053497	SUMF2_g10358.t1	SUMF2
scaffold_26	605916	646987	SUN1_g10078.t1	SUN1
scaffold_26	605895	646987	SUN1_g10078.t2	SUN1
scaffold_26	25192827	25213626	SYEM_g10496.t1	EARS2
scaffold_26	1296047	1297242	T184A_g10093.t1	TMEM184A
scaffold_26	1297766	1302727	T184A_g10093.t2	TMEM184A
scaffold_26	8862514	8871852	T22D4_g10225.t1	TSC22D4
scaffold_26	10858826	10865183	TACAN_g10299.t1	TACAN
scaffold_26	8517834	8521990	MSTRG.10288.1	TAF6
scaffold_26	8522067	8530718	MSTRG.10289.1	TAF6
scaffold_26	8522118	8526874	TAF6_g10207.t1	TAF6
scaffold_26	19706717	19725067	MSTRG.10499.1	TAOK2
scaffold_26	19706717	19725067	MSTRG.10499.2	TAOK2
scaffold_26	19706875	19725067	MSTRG.10499.3	TAOK2
scaffold_26	19710567	19725067	TAOK2_g10429.t1	TAOK2

scaffold_26	19426707	19437869	TB10B_g10415.t1	TBC1D10B
scaffold_26	19426707	19444178	MSTRG.10489.1	TBC1D10B
scaffold_26	19426760	19444178	MSTRG.10489.3	TBC1D10B
scaffold_26	42514090	42526135	MSTRG.10750.1	TBC1D24
scaffold_26	42516608	42522467	TBC24_g10713.t1	TBC1D24
scaffold_26	11553597	11558346	TBL2_g10312.t1	TBL2
scaffold_26	43025975	43032469	TBL3_g10736.t1	TBL3
scaffold_26	19791225	19795085	TBX6_g10438.t1	TBX6
scaffold_26	6052284	6080790	TCPR1_g10162.t1	TECPR1
scaffold_26	18054737	18065387	TCPZ_g10359.t1	CCT6A
scaffold_26	12120354	12197214	MSTRG.10390.1	TDRP
scaffold_26	12120412	12197214	MSTRG.10390.2	TDRP
scaffold_26	12120454	12197214	MSTRG.10390.3	TDRP
scaffold_26	43473057	43488990	MSTRG.10798.1	TELO2
scaffold_26	27045513	27045741	MSTRG.10585.1	TEX13C
scaffold_26	40971254	40971684	MSTRG.10706.1	TFAP4
scaffold_26	1227328	1250067	TFB2M_g10091.t1	TFB2M
scaffold_26	1227328	1249791	TFB2M_g10091.t2	TFB2M
scaffold_26	8995806	9010070	TFR2_g10234.t1	TFR2
scaffold_26	18543859	18544903	TGFI1_g10368.t1	TGFB1I1
scaffold_26	18545019	18548594	TGFI1_g10369.t1	TGFB1I1
scaffold_26	42100259	42106894	MSTRG.10731.1	THOC6
scaffold_26	42100323	42105436	THOC6_g10686.t1	THOC6
scaffold_26	26679352	26680443	THUM1_g10514.t1	THUMPD1
scaffold_26	26215768	26222772	MSTRG.10574.1	THUMPD1
scaffold_26	26675463	26683319	MSTRG.10578.1	THUMPD1
scaffold_26	42352737	42353834	MSTRG.10740.1	TIGD1
scaffold_26	41786854	41787769	MSTRG.10723.1	TIGD7
scaffold_26	41790631	41792283	TIGD7_g10675.t1	TIGD7
scaffold_26	40589289	40590813	TIRR_g10644.t1	TIRR
scaffold_26	37320365	37323486	TM186_g10622.t1	TMEM186
scaffold_26	43431400	43450682	TM204_g10757.t1	TM204
scaffold_26	19697231	19704713	TM219_g10428.t1	TMEM219
scaffold_26	32187646	32189094	TM238_g10570.t1	TMEM238
scaffold_26	17315970	17336456	TM248_g10346.t1	TMEM248
scaffold_26	29559468	29609552	TMC7_g10550.t1	TMC7
scaffold_26	27024023	27026807	VHL_g10522.t1	LDAF1
scaffold_26	12624222	12624488	MSTRG.10394.1	TMEM167A
scaffold_26	28891255	28892404	MSTRG.10608.1	TMEM173
scaffold_26	37320345	37323486	MSTRG.10682.1	TMEM186
scaffold_26	37320532	37323486	MSTRG.10682.3	TMEM186
scaffold_26	19696074	19697768	MSTRG.10497.1	TMEM219
scaffold_26	17311125	17349763	MSTRG.10417.2	TMEM248
scaffold_26	19143886	19186002	MSTRG.10475.4	TMEM265
scaffold_26	19143886	19186002	MSTRG.10475.5	TMEM265

scaffold_26	19143886	19186002	MSTRG.10475.6	TMEM265
scaffold_26	19146003	19186002	MSTRG.10475.8	TMEM265
scaffold_26	17310520	17349763	MSTRG.10417.1	TMEM44
scaffold_26	4460225	4545857	TNC18_g10124.t1	TNRC18
scaffold_26	35626579	35639482	TNC18_g10606.t1	TNRC18
scaffold_26	34692642	34711908	MSTRG.10657.1	TNFRSF17
scaffold_26	34692642	34696757	MSTRG.10657.2	TNFRSF17
scaffold_26	34695573	34695777	MSTRG.10658.1	TNFRSF17
scaffold_26	42105437	42106894	TNR12_g10688.t1	TNR12
scaffold_26	34696183	34698224	TNR17_g10590.t1	TNR17
scaffold_26	24212868	24313443	TNR6A_g10484.t1	TNRC6A
scaffold_26	4458994	4548360	MSTRG.10205.3	TNRC18
scaffold_26	4458994	4548360	MSTRG.10205.4	TNRC18
scaffold_26	4459115	4546640	MSTRG.10205.6	TNRC18
scaffold_26	4458969	4548360	MSTRG.10205.1	TNRC18
scaffold_26	4458969	4548360	MSTRG.10205.2	TNRC18
scaffold_26	4459115	4548360	MSTRG.10205.5	TNRC18
scaffold_26	24210479	24313443	MSTRG.10549.1	TNRC6A
scaffold_26	24237078	24238565	MSTRG.10549.3	TNRC6A
scaffold_26	24252295	24264189	MSTRG.10549.4	TNRC6A
scaffold_26	8700105	8703899	TPC14_g10214.t1	TPC14
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scaffold_26	42835285	42854533	MSTRG.10770.3	TRAF7
scaffold_26	42835575	42846458	TRAF7_g10725.t1	TRAF7
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scaffold_26	9309059	9350706	TRI56_g10265.t1	TRIM56
scaffold_26	9352167	9352368	MSTRG.10324.1	TRIM56
scaffold_26	9968597	9970933	TRIO_g10281.t2	TRIO
scaffold_26	9151468	9154947	MSTRG.10319.1	TRIP6
scaffold_26	23886707	23887402	TRIPB_g10477.t1	TRIPB
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scaffold_26	24029500	24029889	TRIPB_g10480.t1	TRIPB
scaffold_26	24030837	24031526	TRIPB_g10481.t1	TRIPB
scaffold_26	26246634	26249786	TRIPB_g10511.t1	TRIPB
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scaffold_26	6573566	6691600	MSTRG.10245.4	TRRAP
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scaffold_26	6573612	6606905	MSTRG.10245.7	TRRAP

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scaffold_26	42923583	42962616	TSC2_g10728.t1	TSC2
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scaffold_26	2304527	2309397	MSTRG.10188.1	TTYH3
scaffold_26	2304528	2337882	MSTRG.10188.2	TTYH3
scaffold_26	7699180	7699505	MSTRG.10269.1	TUSC2
scaffold_26	34936251	34996620	TXD11_g10595.t1	TXD11
scaffold_26	34936140	34996620	MSTRG.10663.1	TXNDC11
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scaffold_26	25174427	25192692	MSTRG.10559.1	UBFD1
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scaffold_26	9167286	9167714	UFSP1_g10243.t1	UFSP1
scaffold_26	25526116	25601917	MSTRG.10564.2	USP31
scaffold_26	5598460	5640662	MSTRG.10232.1	USP42
scaffold_26	5633474	5639242	MSTRG.10232.3	USP42
scaffold_26	40875634	40887463	MSTRG.10704.1	VASN
scaffold_26	41259299	41259557	MSTRG.10714.1	VASN
scaffold_26	40876759	40878790	VASN_g10653.t1	VASN
scaffold_26	42500596	42505439	VATL_g10712.t1	ATP6V0C
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scaffold_26	9394243	9396105	VGF_g10269.t2	VGF
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scaffold_26	18850858	18853118	MSTRG.10449.1	VKORC1
scaffold_26	17896318	17962281	VKORL_g10354.t1	VKORL
scaffold_26	29302835	29420678	VP35L_g10546.t1	VPS35L
scaffold_26	11610313	11613526	VP37D_g10314.t1	VP37D
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scaffold_26	44220916	44225197	MSTRG.10829.3	WDR24
scaffold_26	44220468	44225197	WDR24_g10793.t1	WDR24
scaffold_26	44254163	44259586	MSTRG.10826.2	WDR90
scaffold_26	44243029	44259586	WDR90_g10800.t1	WDR90
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scaffold_26	20233190	20334354	MSTRG.10522.2	XPO6

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scaffold_26	19796095	19797155	MSTRG.10503.3	YPEL3
scaffold_26	19796095	19799287	MSTRG.10503.4	YPEL3
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scaffold_26	8392679	8413347	MSTRG.10280.1	ZKSCAN1
scaffold_26	8392691	8413347	MSTRG.10280.2	ZKSCAN1
scaffold_26	8392694	8413347	MSTRG.10280.3	ZKSCAN1
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scaffold_26	8421131	8432375	MSTRG.10282.2	ZKSCAN1
scaffold_26	8421722	8432375	MSTRG.10282.3	ZKSCAN1
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scaffold_26	7225792	7245858	MSTRG.10261.2	ZKSCAN5
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scaffold_26	7342311	7351224	ZN655_g10186.t2	ZNF655
scaffold_26	19286516	19289101	ZN688_g10405.t1	ZNF688
scaffold_26	19259998	19263747	ZN689_g10403.t1	ZNF689
scaffold_26	18234246	18258391	ZN713_g10363.t1	ZNF713
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scaffold_26	5153207	5173849	MSTRG.10222.1	ZNF316
scaffold_26	5158843	5168713	MSTRG.10222.3	ZNF316
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scaffold_26	1222633	1263828	MSTRG.10176.1	ZNF366
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scaffold_26	19013107	19015037	MSTRG.10463.1	ZNF484
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scaffold_27	7010950	7146751	MSTRG.10930.1	BRWD1
scaffold_27	7880521	7904569	MSTRG.10933.1	BRWD1
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scaffold_27	9801668	9807909	CBR3_g10955.t1	CBR3
scaffold_27	3676169	3697968	CBS_g10892.t1	CBS
scaffold_27	3672321	3690032	MSTRG.10911.1	CBS
scaffold_27	3672385	3697968	MSTRG.10911.2	CBS
scaffold_27	40663221	40669450	CC038_g11100.t1	C3ORF38
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scaffold_27	2498614	2516219	CF410_g10872.t1	CFAP410
scaffold_27	40574441	40574963	CGBP1_g11098.t1	CGGBP1
scaffold_27	40570027	40577876	MSTRG.11106.1	CGGBP1
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scaffold_27	15354530	15355204	CLD17_g11023.t1	CLDN17
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scaffold_27	1429935	1430147	MSTRG.10873.1	COL18A1
scaffold_27	836067	870554	MSTRG.10871.1	COL6A2
scaffold_27	838714	870554	MSTRG.10871.3	COL6A2
scaffold_27	24893	40267	CP4F3_g10833.t1	CYP4F3
scaffold_27	27374605	27374817	CPSF1_g11059.t1	CPSF1
scaffold_27	12151441	12187223	MSTRG.10957.1	CRYZL1
scaffold_27	3032431	3035967	CYTX_g10882.t1	CSTB
scaffold_27	3081730	3087167	MSTRG.10897.1	CSTB
scaffold_27	3084255	3087167	MSTRG.10897.2	CSTB
scaffold_27	677191	688820	CU058_g10839.t1	C21ORF58
scaffold_27	26550079	26619307	CXAR_g11058.t1	CXADR
scaffold_27	30457050	30540479	MSTRG.11056.1	CYP8B1
scaffold_27	3058993	3062498	CYTB_g10883.t1	CYTB
scaffold_27	3070120	3073897	CYTB_g10884.t1	CYTB
scaffold_27	18499138	18605246	CYYR1_g11039.t1	CYYR1
scaffold_27	386622	510151	DIP2A_g10837.t1	DIP2A
scaffold_27	383363	510151	MSTRG.10859.1	DIP2A
scaffold_27	383388	510151	MSTRG.10859.2	DIP2A
scaffold_27	384824	398412	MSTRG.10859.3	DIP2A
scaffold_27	398909	411680	MSTRG.10859.5	DIP2A
scaffold_27	434688	510151	MSTRG.10859.6	DIP2A

scaffold_27	12277827	12278873	DJC28_g10978.t1	DNAJC28
scaffold_27	12277713	12278873	DJC28_g10978.t2	DNAJC28
scaffold_27	12187399	12195634	DONS_g10975.t1	DONSON
scaffold_27	12214492	12228933	MSTRG.10959.4	DONSON
scaffold_27	9691943	9789901	DOP2_g10954.t1	DOP1B
scaffold_27	9732535	9795590	MSTRG.10948.2	DOP1B
scaffold_27	8819205	8868283	MSTRG.10934.1	VPS26C
scaffold_27	8819293	8868283	MSTRG.10934.3	VPS26C
scaffold_27	9069454	9079860	DSCR6_g10947.t2	RIPPLY3
scaffold_27	8592473	8649258	DYR1A_g10942.t1	DYRK1A
scaffold_27	8586870	8683975	MSTRG.10931.1	DYRK1A
scaffold_27	8589863	8733310	MSTRG.10931.2	DYRK1A
scaffold_27	8589899	8733623	MSTRG.10931.3	DYRK1A
scaffold_27	37647067	37647366	EF2_g11088.t1	EEF2
scaffold_27	41612914	41868396	EPHA3_g11103.t1	EPHA3
scaffold_27	7713564	7818920	ERG_g10934.t1	ERG
scaffold_27	7425707	7438207	ETS2_g10933.t1	ETS2
scaffold_27	7423632	7442348	MSTRG.10929.1	ETS2
scaffold_27	26349860	26377880	EURL_g11054.t1	EURL
scaffold_27	1958941	1998241	F207A_g10853.t1	SLX9
scaffold_27	1672243	1672641	FCGRB_g10850.t1	FCGRB
scaffold_27	810341	828354	FTCD_g10844.t1	FTCD
scaffold_27	811976	828354	MSTRG.10870.2	FTCD
scaffold_27	811976	828354	MSTRG.10870.3	FTCD
scaffold_27	4031257	4091966	G6PT2_g10898.t1	SLC37A4
scaffold_27	19193274	19220338	GABPA_g11043.t1	GABPA
scaffold_27	19189224	19225869	MSTRG.10994.1	GABPA
scaffold_27	19189230	19226248	MSTRG.10994.2	GABPA
scaffold_27	2687931	2700181	GAL3B_g10877.t1	GAL3B
scaffold_27	12229179	12260456	MSTRG.10960.1	GART
scaffold_27	34743190	35009007	MSTRG.11077.1	GBE1
scaffold_27	35008697	35015872	MSTRG.11079.1	GBE1
scaffold_27	6948910	6961270	GET1_g10928.t1	GET1
scaffold_27	34745120	34924934	GLGB_g11082.t1	GLGB
scaffold_27	38704576	38879393	GNRHR_g11089.t1	GNRHR
scaffold_27	9124696	9314016	MSTRG.10935.1	HLCS
scaffold_27	9143201	9302251	MSTRG.10935.2	HLCS
scaffold_27	6971967	6978463	HMGN1_g10929.t1	HMGN1
scaffold_27	3186807	3292251	HSF2B_g10887.t1	HSF2BP
scaffold_27	29372604	29384306	MSTRG.11034.1	HSPA13
scaffold_27	13603263	13701882	HUNK_g10997.t1	HUNK
scaffold_27	13602089	13602375	MSTRG.10975.1	BRD4
scaffold_27	12498473	12522711	I10R2_g10982.t1	I10R2
scaffold_27	2608774	2617342	ICOSL_g10876.t1	ICOSLG
scaffold_27	12343808	12373263	MSTRG.10961.1	IFNGR2

scaffold_27	12497607	12522711	MSTRG.10964.1	IL10RB
scaffold_27	12497901	12522711	MSTRG.10964.2	IL10RB
scaffold_27	12430884	12453379	INAR1_g10981.t1	INAR1
scaffold_27	12525156	12566243	INAR2_g10983.t1	IFNAR2
scaffold_27	12347635	12373263	INGR2_g10980.t1	IFNGR2
scaffold_27	11943629	12102738	ITSN1_g10973.t1	ITSN1
scaffold_27	11984586	12150701	MSTRG.10956.2	ITSN1
scaffold_27	11984586	12150701	MSTRG.10956.3	ITSN1
scaffold_27	19243461	19303662	JAM2_g11045.t1	JAM2
scaffold_27	7882628	7886140	KCJ15_g10936.t1	KCNJ15
scaffold_27	11522815	11523186	KCNE2_g10969.t1	KCNE2
scaffold_27	15252853	15253614	KR241_g11021.t1	KRTAP24-1
scaffold_27	26474794	26476631	KXDL1_g11056.t1	KXD1
scaffold_27	6905397	6929075	LCA5L_g10927.t1	LCA5L
scaffold_27	42700850	42702900	LMO7_g11106.t1	LMO7
scaffold_27	4738597	4738811	MSTRG.10918.1	LOC111775420
scaffold_27	40678342	40678687	MSTRG.11103.1	LRRC8A
scaffold_27	753854	763884	MSTRG.10869.1	LSS
scaffold_27	16408287	16478191	LTN1_g11031.t1	LTN1
scaffold_27	16408190	16462729	MSTRG.10987.1	LTN1
scaffold_27	3394424	3394951	MAST1_g10888.t1	MAST1
scaffold_27	746953	747515	MSTRG.10864.1	MCM3
scaffold_27	699942	715738	MSTRG.10865.1	MCM3
scaffold_27	26437239	26437640	MIA2_g11055.t1	MIA2
scaffold_27	27894035	27895636	MIA2_g11060.t1	MIA2
scaffold_27	28264670	28265962	MIA2_g11064.t1	MIA2
scaffold_27	37263491	37264792	MIA2_g11087.t1	MIA2
scaffold_27	9640159	9680207	MORC3_g10953.t1	MORC3
scaffold_27	13334666	13355788	MRAP_g10994.t1	MRAP
scaffold_27	29391168	29471004	MSTRG.11037.1	ABCC1
scaffold_27	11715125	11772849	MSTRG.10954.2	MRPS6
scaffold_27	11715133	11785883	MSTRG.10954.3	MRPS6
scaffold_27	11715133	11785676	MSTRG.10954.4	MRPS6
scaffold_27	11715133	11785676	MSTRG.10954.5	MRPS6
scaffold_27	13369962	13379868	MS18A_g10995.t1	MIS18A
scaffold_27	13369809	13379868	MS18A_g10995.t2	MIS18A
scaffold_27	5079347	5109146	MX1_g10916.t2	MX1
scaffold_27	16496578	16509806	N6MT1_g11032.t2	N6MT1
scaffold_27	23072009	23547119	NCAM2_g11051.t1	NCAM2
scaffold_27	23102918	23547119	MSTRG.11005.2	NCAM2
scaffold_27	3794054	3804503	MSTRG.10913.1	NDUFV3
scaffold_27	3794205	3804503	NDUV3_g10894.t1	NDUV3
scaffold_27	10010240	10012173	NOTC2_g10959.t1	NOTCH2
scaffold_27	40379400	40401067	ANM3_g11096.t1	ANM3_g11096.t1
scaffold_27	16512308	16512646	ASTB_g11033.t1	ASTB_g11033.t1

scaffold_27	11916214	11925403	ATPO_g10972.t1	ATPO_g10972.t1
scaffold_27	42623529	42637246	GNDS_g11105.t1	GNDS_g11105.t1
scaffold_27	42709752	42711240	GNDS_g11107.t1	GNDS_g11107.t1
scaffold_27	750589	750789	MSTRG.10863.1	MSTRG.10863.1
scaffold_27	751061	751280	MSTRG.10867.1	MSTRG.10867.1
scaffold_27	749094	749336	MSTRG.10868.1	MSTRG.10868.1
scaffold_27	1957264	1957466	MSTRG.10877.1	MSTRG.10877.1
scaffold_27	1957772	1958012	MSTRG.10878.1	MSTRG.10878.1
scaffold_27	2149880	2183540	MSTRG.10882.2	MSTRG.10882.2
scaffold_27	2700877	2701078	MSTRG.10886.1	MSTRG.10886.1
scaffold_27	2665964	2700181	MSTRG.10887.1	MSTRG.10887.1
scaffold_27	2665973	2700510	MSTRG.10887.2	MSTRG.10887.2
scaffold_27	2995955	2996170	MSTRG.10890.1	MSTRG.10890.1
scaffold_27	3074100	3089485	MSTRG.10896.1	MSTRG.10896.1
scaffold_27	3292855	3293298	MSTRG.10901.1	MSTRG.10901.1
scaffold_27	3407200	3407413	MSTRG.10903.1	MSTRG.10903.1
scaffold_27	3603885	3604111	MSTRG.10908.1	MSTRG.10908.1
scaffold_27	3658058	3658270	MSTRG.10909.1	MSTRG.10909.1
scaffold_27	4554854	4573421	MSTRG.10915.1	MSTRG.10915.1
scaffold_27	4554854	4573421	MSTRG.10915.2	MSTRG.10915.2
scaffold_27	4589004	4589243	MSTRG.10916.1	MSTRG.10916.1
scaffold_27	4625361	4660625	MSTRG.10917.3	MSTRG.10917.3
scaffold_27	4731411	4731612	MSTRG.10921.1	MSTRG.10921.1
scaffold_27	5435654	5435870	MSTRG.10923.1	MSTRG.10923.1
scaffold_27	5350259	5381680	MSTRG.10924.5	MSTRG.10924.5
scaffold_27	5367163	5383605	MSTRG.10924.6	MSTRG.10924.6
scaffold_27	9578137	9626911	MSTRG.10936.1	MSTRG.10936.1
scaffold_27	9599965	9626911	MSTRG.10936.3	MSTRG.10936.3
scaffold_27	11314933	11408623	MSTRG.10940.1	MSTRG.10940.1
scaffold_27	11316033	11316280	MSTRG.10941.1	MSTRG.10941.1
scaffold_27	11343810	11344035	MSTRG.10943.1	MSTRG.10943.1
scaffold_27	11388214	11388434	MSTRG.10944.1	MSTRG.10944.1
scaffold_27	11404083	11404283	MSTRG.10945.1	MSTRG.10945.1
scaffold_27	9633463	9680207	MSTRG.10946.1	MSTRG.10946.1
scaffold_27	10033619	10033901	MSTRG.10952.1	MSTRG.10952.1
scaffold_27	9817518	9817733	MSTRG.10953.1	MSTRG.10953.1
scaffold_27	12030368	12150701	MSTRG.10956.4	MSTRG.10956.4
scaffold_27	12159431	12186886	MSTRG.10957.3	MSTRG.10957.3
scaffold_27	12301913	12329029	MSTRG.10965.2	MSTRG.10965.2
scaffold_27	14013646	14013873	MSTRG.10978.1	MSTRG.10978.1
scaffold_27	14331451	14371337	MSTRG.10980.2	MSTRG.10980.2
scaffold_27	14615762	14615972	MSTRG.10981.1	MSTRG.10981.1
scaffold_27	16089454	16089671	MSTRG.10982.1	MSTRG.10982.1
scaffold_27	18739639	18739858	MSTRG.10990.1	MSTRG.10990.1
scaffold_27	19181396	19182140	MSTRG.10993.1	MSTRG.10993.1

scaffold_27	19235293	19237812	MSTRG.10996.1	MSTRG.10996.1
scaffold_27	19371215	19371416	MSTRG.10998.1	MSTRG.10998.1
scaffold_27	19808886	19809096	MSTRG.11001.1	MSTRG.11001.1
scaffold_27	19374863	19375220	MSTRG.11002.1	MSTRG.11002.1
scaffold_27	20575536	20575745	MSTRG.11003.1	MSTRG.11003.1
scaffold_27	20878335	20878550	MSTRG.11004.1	MSTRG.11004.1
scaffold_27	23462953	23479244	MSTRG.11006.1	MSTRG.11006.1
scaffold_27	23527510	23534783	MSTRG.11007.1	MSTRG.11007.1
scaffold_27	26383001	26383643	MSTRG.11008.1	MSTRG.11008.1
scaffold_27	27333042	27333262	MSTRG.11011.1	MSTRG.11011.1
scaffold_27	27292387	27292798	MSTRG.11012.1	MSTRG.11012.1
scaffold_27	27336028	27336241	MSTRG.11013.1	MSTRG.11013.1
scaffold_27	27336885	27337249	MSTRG.11014.1	MSTRG.11014.1
scaffold_27	27346444	27346670	MSTRG.11015.1	MSTRG.11015.1
scaffold_27	27349608	27349939	MSTRG.11018.1	MSTRG.11018.1
scaffold_27	27389996	27390224	MSTRG.11019.1	MSTRG.11019.1
scaffold_27	27393631	27393888	MSTRG.11020.1	MSTRG.11020.1
scaffold_27	27399528	27399735	MSTRG.11021.1	MSTRG.11021.1
scaffold_27	27417299	27417590	MSTRG.11022.1	MSTRG.11022.1
scaffold_27	27421596	27421826	MSTRG.11023.1	MSTRG.11023.1
scaffold_27	27444288	27444506	MSTRG.11024.1	MSTRG.11024.1
scaffold_27	27446507	27446725	MSTRG.11025.1	MSTRG.11025.1
scaffold_27	27448454	27448664	MSTRG.11026.1	MSTRG.11026.1
scaffold_27	27463044	27463245	MSTRG.11027.1	MSTRG.11027.1
scaffold_27	27505573	27505777	MSTRG.11028.1	MSTRG.11028.1
scaffold_27	27984997	27985229	MSTRG.11029.1	MSTRG.11029.1
scaffold_27	28000312	28142266	MSTRG.11030.1	MSTRG.11030.1
scaffold_27	28000630	28142266	MSTRG.11030.2	MSTRG.11030.2
scaffold_27	29277360	29277580	MSTRG.11033.1	MSTRG.11033.1
scaffold_27	29492180	29492406	MSTRG.11035.1	MSTRG.11035.1
scaffold_27	29503029	29503245	MSTRG.11036.1	MSTRG.11036.1
scaffold_27	30079064	30079285	MSTRG.11040.1	MSTRG.11040.1
scaffold_27	30082981	30167100	MSTRG.11041.1	MSTRG.11041.1
scaffold_27	30196356	30207652	MSTRG.11043.1	MSTRG.11043.1
scaffold_27	30207981	30310846	MSTRG.11044.1	MSTRG.11044.1
scaffold_27	30311185	30335597	MSTRG.11045.1	MSTRG.11045.1
scaffold_27	30336338	30343245	MSTRG.11046.1	MSTRG.11046.1
scaffold_27	30350325	30366995	MSTRG.11048.1	MSTRG.11048.1
scaffold_27	30367337	30384715	MSTRG.11049.1	MSTRG.11049.1
scaffold_27	30384987	30396513	MSTRG.11050.1	MSTRG.11050.1
scaffold_27	30416075	30433032	MSTRG.11052.1	MSTRG.11052.1
scaffold_27	30433388	30435377	MSTRG.11053.1	MSTRG.11053.1
scaffold_27	30435868	30437654	MSTRG.11054.1	MSTRG.11054.1
scaffold_27	30437946	30456720	MSTRG.11055.1	MSTRG.11055.1
scaffold_27	30540899	30564093	MSTRG.11057.1	MSTRG.11057.1

scaffold_27	30565600	30580173	MSTRG.11058.1	MSTRG.11058.1
scaffold_27	31298401	31298620	MSTRG.11059.1	MSTRG.11059.1
scaffold_27	31299724	31299944	MSTRG.11060.1	MSTRG.11060.1
scaffold_27	31328763	31328979	MSTRG.11061.1	MSTRG.11061.1
scaffold_27	31948287	31948726	MSTRG.11062.1	MSTRG.11062.1
scaffold_27	30717416	30786797	MSTRG.11064.1	MSTRG.11064.1
scaffold_27	30762892	30825765	MSTRG.11065.1	MSTRG.11065.1
scaffold_27	33352239	33390075	MSTRG.11066.1	MSTRG.11066.1
scaffold_27	33358546	33358838	MSTRG.11067.1	MSTRG.11067.1
scaffold_27	34479042	34479254	MSTRG.11068.1	MSTRG.11068.1
scaffold_27	32771417	32771621	MSTRG.11071.1	MSTRG.11071.1
scaffold_27	32786636	32786936	MSTRG.11072.1	MSTRG.11072.1
scaffold_27	33031551	33031763	MSTRG.11073.1	MSTRG.11073.1
scaffold_27	35019641	35019892	MSTRG.11074.1	MSTRG.11074.1
scaffold_27	35511614	35528917	MSTRG.11075.1	MSTRG.11075.1
scaffold_27	35549245	35549575	MSTRG.11076.1	MSTRG.11076.1
scaffold_27	37136783	37137157	MSTRG.11081.1	MSTRG.11081.1
scaffold_27	36810998	36811229	MSTRG.11082.1	MSTRG.11082.1
scaffold_27	37869716	37869917	MSTRG.11083.1	MSTRG.11083.1
scaffold_27	38006224	38006445	MSTRG.11084.1	MSTRG.11084.1
scaffold_27	35552170	35552441	MSTRG.11085.1	MSTRG.11085.1
scaffold_27	38165148	38165378	MSTRG.11086.1	MSTRG.11086.1
scaffold_27	38166100	38166350	MSTRG.11087.1	MSTRG.11087.1
scaffold_27	38271270	38271493	MSTRG.11088.1	MSTRG.11088.1
scaffold_27	38522983	38523190	MSTRG.11089.1	MSTRG.11089.1
scaffold_27	38629353	38629567	MSTRG.11090.1	MSTRG.11090.1
scaffold_27	38772970	38884547	MSTRG.11091.2	MSTRG.11091.2
scaffold_27	39663649	39684516	MSTRG.11092.4	MSTRG.11092.4
scaffold_27	39848500	39894669	MSTRG.11093.1	MSTRG.11093.1
scaffold_27	39922884	39923917	MSTRG.11095.1	MSTRG.11095.1
scaffold_27	39994754	39996882	MSTRG.11096.1	MSTRG.11096.1
scaffold_27	39994829	39996882	MSTRG.11096.2	MSTRG.11096.2
scaffold_27	40388292	40388494	MSTRG.11098.1	MSTRG.11098.1
scaffold_27	40391857	40392121	MSTRG.11099.1	MSTRG.11099.1
scaffold_27	40405083	40405284	MSTRG.11100.1	MSTRG.11100.1
scaffold_27	40412384	40412596	MSTRG.11101.1	MSTRG.11101.1
scaffold_27	40675514	40675730	MSTRG.11102.1	MSTRG.11102.1
scaffold_27	40701366	40701599	MSTRG.11104.1	MSTRG.11104.1
scaffold_27	41411038	41411238	MSTRG.11105.1	MSTRG.11105.1
scaffold_27	40578009	40670223	MSTRG.11107.1	MSTRG.11107.1
scaffold_27	42596086	42599005	MSTRG.11108.1	MSTRG.11108.1
scaffold_27	42687237	42690388	MSTRG.11112.1	MSTRG.11112.1
scaffold_27	42712073	42712283	MSTRG.11114.1	MSTRG.11114.1
scaffold_27	42605459	42666551	MSTRG.11116.1	MSTRG.11116.1
scaffold_27	42634113	42640359	MSTRG.11116.10	MSTRG.11116.10

scaffold_27	42634687	42637284	MSTRG.11116.11	MSTRG.11116.11
scaffold_27	42605577	42630954	MSTRG.11116.2	MSTRG.11116.2
scaffold_27	42608098	42640237	MSTRG.11116.3	MSTRG.11116.3
scaffold_27	42608098	42666551	MSTRG.11116.4	MSTRG.11116.4
scaffold_27	42608104	42666551	MSTRG.11116.5	MSTRG.11116.5
scaffold_27	42623529	42666551	MSTRG.11116.6	MSTRG.11116.6
scaffold_27	42631110	42666551	MSTRG.11116.8	MSTRG.11116.8
scaffold_27	7415271	7415906	PED1B_g10932.t1	PED1B_g10932.t1
scaffold_27	34750541	34750762	T131L_g11083.t1	T131L_g11083.t1
scaffold_27	13264562	13333207	NPA1P_g10993.t1	NPA1P
scaffold_27	28883821	28891130	NRIP1_g11067.t1	NRIP1
scaffold_27	19180602	19180898	NU4LM_g11042.t1	NU4LM
scaffold_27	8765771	8768075	MSTRG.10932.1	NUP54
scaffold_27	1657282	1672164	OFUT2_g10849.t1	POFUT2
scaffold_27	12972130	13004918	MSTRG.10968.1	PAXBP1
scaffold_27	546602	671022	MSTRG.10862.1	PCNT
scaffold_27	546602	669186	MSTRG.10862.2	PCNT
scaffold_27	547034	671022	MSTRG.10862.4	PCNT
scaffold_27	547129	660225	MSTRG.10862.5	PCNT
scaffold_27	522807	546236	PCNT_g10838.t1	PCNT
scaffold_27	3098027	3103536	MSTRG.10898.1	PDXK
scaffold_27	3103668	3134801	PDXK_g10885.t1	PDXK
scaffold_27	2523988	2551915	PFKAL_g10873.t1	PFKL
scaffold_27	28253690	28255204	MIA2_g11063.t1	PHF14
scaffold_27	9028790	9037234	PIGP_g10946.t1	PIGP
scaffold_27	39928244	39943225	PIT1_g11094.t1	POU1F1
scaffold_27	3710869	3767052	MSTRG.10912.1	PKNOX1
scaffold_27	3721715	3739222	MSTRG.10912.3	PKNOX1
scaffold_27	19364366	19364594	MSTRG.11000.1	PLPPR5
scaffold_27	31190546	31294539	PPAL_g11075.t1	PPAL
scaffold_27	4666396	4733007	PRD15_g10908.t1	PRDM15
scaffold_27	4666442	4722257	MSTRG.10919.2	PRDM15
scaffold_27	11319025	11319348	MSTRG.10942.1	PRELID2
scaffold_27	311720	343772	MSTRG.10857.1	PRMT2
scaffold_27	311851	343772	MSTRG.10857.2	PRMT2
scaffold_27	2098762	2116080	PTTG_g10854.t1	PTTG
scaffold_27	12232790	12259037	PUR2_g10977.t1	PUR2
scaffold_27	2702588	2720806	MSTRG.10888.1	PWP2
scaffold_27	2703004	2720806	PWP2_g10878.t1	PWP2
scaffold_27	12151441	12186850	QORL1_g10974.t1	QORL1
scaffold_27	28800442	28891130	MSTRG.11031.1	RAB11FIP3
scaffold_27	28801369	28891130	MSTRG.11031.2	RAB11FIP3
scaffold_27	28801369	28891130	MSTRG.11031.3	RAB11FIP3
scaffold_27	28801377	28891130	MSTRG.11031.4	RAB11FIP3
scaffold_27	28801508	28891130	MSTRG.11031.5	RAB11FIP3

scaffold_27	28801508	28891130	MSTRG.11031.6	RAB11FIP3
scaffold_27	42667087	42686958	MSTRG.11111.1	RASGRF1
scaffold_27	42537048	42537289	MSTRG.11110.1	RASGRF2
scaffold_27	29517561	29531802	MSTRG.11038.1	RBM11
scaffold_27	29517570	29531802	MSTRG.11038.2	RBM11
scaffold_27	11398913	11407411	RCAN1_g10965.t1	RCAN1
scaffold_27	42534126	42534369	MSTRG.11109.1	RGL1
scaffold_27	42633633	42666551	MSTRG.11116.9	RGL1
scaffold_27	19335000	19354818	RM39_g11046.t1	MRPL39
scaffold_27	32138975	32518197	MSTRG.11069.1	ROBO1
scaffold_27	32139019	33218407	MSTRG.11069.2	ROBO1
scaffold_27	32614085	32614399	ROBO1_g11078.t1	ROBO1
scaffold_27	30041785	30076440	MSTRG.11039.1	ROBO2
scaffold_27	30041845	30055469	MSTRG.11039.2	ROBO2
scaffold_27	30709909	31297148	MSTRG.11063.1	ROBO2
scaffold_27	30709909	31297148	MSTRG.11063.2	ROBO2
scaffold_27	30712415	31297148	MSTRG.11063.3	ROBO2
scaffold_27	31126734	31294539	MSTRG.11063.5	ROBO2
scaffold_27	31205895	31279377	MSTRG.11063.7	ROBO2
scaffold_27	3000275	3017342	RRP1_g10881.t1	RRP1
scaffold_27	3157793	3185128	MSTRG.10902.1	RRP1B
scaffold_27	3157924	3185128	MSTRG.10902.2	RRP1B
scaffold_27	3158118	3185128	RRP1B_g10886.t1	RRP1B
scaffold_27	10920060	11166616	RUNX1_g10963.t1	RUNX1
scaffold_27	16392019	16393727	RWD2B_g11030.t1	RWDD2B
scaffold_27	1401263	1427522	S19A1_g10847.t1	S19A1
scaffold_27	29251838	29266297	MSTRG.11032.1	SAMSN1
scaffold_27	11759508	11762003	SC5A3_g10971.t1	SLC5A3
scaffold_27	13841511	13900857	MSTRG.10979.1	SCAF4
scaffold_27	13841927	13900857	SCAF4_g11000.t1	SCAF4
scaffold_27	10010240	10035466	MSTRG.10951.1	SETD4
scaffold_27	10028853	10030623	MSTRG.10951.4	SETD4
scaffold_27	10012174	10035466	SETD4_g10960.t1	SETD4
scaffold_27	6805360	6871819	MSTRG.10925.1	SH3BGR
scaffold_27	3394612	3406540	MSTRG.10905.1	SIK1
scaffold_27	3404138	3406533	MSTRG.10906.1	SIK1
scaffold_27	3395238	3404420	SIK1_g10889.t1	SIK1
scaffold_27	3395325	3404420	SIK1_g10889.t2	SIK1
scaffold_27	9314069	9362754	SIM2_g10949.t1	SIM2
scaffold_27	1394972	1427522	MSTRG.10872.1	SLC19A1
scaffold_27	11696950	11785883	RT06_g10970.t1	SLC5A3
scaffold_27	11507186	11518837	MSTRG.10950.1	SMIM11
scaffold_27	13903755	13911115	SODC_g11001.t1	SOD1
scaffold_27	12196412	12228933	MSTRG.10959.1	SON
scaffold_27	12196644	12223898	MSTRG.10959.2	SON

scaffold_27	12216172	12223898	MSTRG.10959.5	SON
scaffold_27	12197411	12228933	SON_g10976.t1	SON
scaffold_27	930185	930395	MSTRG.10866.1	STMND1
scaffold_27	2136580	2146175	SUMO3_g10855.t1	SUMO3
scaffold_27	2136526	2146175	MSTRG.10881.1	SUMO3
scaffold_27	2136526	2146175	MSTRG.10881.2	SUMO3
scaffold_27	13012053	13105628	MSTRG.10969.2	SYNJ1
scaffold_27	13011911	13105628	SYNJ1_g10989.t1	SYNJ1
scaffold_27	16337745	16351247	TCPQ_g11028.t1	TCPQ
scaffold_27	16337706	16351247	TCPQ_g11028.t2	TCPQ
scaffold_27	4269260	4271657	TFF2_g10903.t1	TFF2
scaffold_27	42662141	42665212	MSTRG.11116.12	THAP4
scaffold_27	14241603	14369618	TIAM1_g11002.t1	TIAM1
scaffold_27	12320232	12335809	TM50B_g10979.t1	TMEM50B
scaffold_27	12293718	12337083	MSTRG.10965.1	TMEM50B
scaffold_27	5003784	5074426	TMPS2_g10915.t1	TMPRSS2
scaffold_27	2724578	2812251	TPC10_g10879.t1	TRAPPC10
scaffold_27	2771764	2812251	MSTRG.10889.2	TRAPPC10
scaffold_27	2771764	2812251	MSTRG.10889.3	TRAPPC10
scaffold_27	2430954	2483312	TRPM2_g10871.t1	TRPM2
scaffold_27	8899867	9028711	MSTRG.10938.1	TTC3
scaffold_27	9002275	9028555	MSTRG.10938.10	TTC3
scaffold_27	9004291	9028664	MSTRG.10938.11	TTC3
scaffold_27	9004291	9028664	MSTRG.10938.12	TTC3
scaffold_27	8899867	9028711	MSTRG.10938.2	TTC3
scaffold_27	8899920	9028711	MSTRG.10938.3	TTC3
scaffold_27	8899927	9028711	MSTRG.10938.4	TTC3
scaffold_27	8985400	9028664	MSTRG.10938.7	TTC3
scaffold_27	8985400	9028664	MSTRG.10938.8	TTC3
scaffold_27	9000378	9021244	MSTRG.10938.9	TTC3
scaffold_27	8901384	9015447	TTC3_g10945.t1	TTC3
scaffold_27	8901384	9015447	TTC3_g10945.t2	TTC3
scaffold_27	3641890	3655206	MSTRG.10910.1	U2AF1
scaffold_27	3641940	3655549	MSTRG.10910.2	U2AF1
scaffold_27	3641942	3655206	MSTRG.10910.4	U2AF1
scaffold_27	3641940	3655549	U2AF5_g10891.t1	U2AF5
scaffold_27	2149635	2183540	UB2G2_g10856.t1	UB2G2
scaffold_27	13264471	13333207	MSTRG.10973.1	URB1
scaffold_27	16352134	16379111	MSTRG.10985.1	USP16
scaffold_27	16352134	16379111	MSTRG.10985.2	USP16
scaffold_27	28020980	28056821	MSTRG.11030.4	USP25
scaffold_27	39627534	39684516	MSTRG.11092.1	VGLL3
scaffold_27	39635644	39684516	MSTRG.11092.2	VGLL3
scaffold_27	39636086	39684516	VGLL3_g11091.t1	VGLL3
scaffold_27	8819322	8863437	VP26C_g10944.t1	VPS26C

scaffold_27	8819205	8863437	VP26C_g10944.t2	VPS26C
scaffold_27	3818347	3845948	MSTRG.10914.1	WDR4
scaffold_27	3818369	3845948	MSTRG.10914.3	WDR4
scaffold_27	3818358	3842019	WDR4_g10895.t1	WDR4
scaffold_27	6947632	6948358	MSTRG.10926.1	GET1
scaffold_27	6950403	6961270	MSTRG.10927.2	GET1
scaffold_27	4683468	4683680	XKR6_g10909.t1	XKR6
scaffold_27	694253	694480	MSTRG.10860.1	YBEY
scaffold_27	694527	699353	MSTRG.10861.1	YBEY
scaffold_27	694727	699353	YBEY_g10840.t1	YBEY
scaffold_27	19366604	19366829	MSTRG.10997.1	YWHAZ
scaffold_27	4566207	4571675	ZBT21_g10906.t1	ZBTB21
scaffold_27	40639934	40654906	ZN654_g11099.t1	ZNF654
scaffold_27	40622812	40663220	MSTRG.11107.2	ZNF654
scaffold_27	40623499	40653004	MSTRG.11107.3	ZNF654
scaffold_28	34892088	34911987	4EBP1_g11280.t1	EIF4EBP1
scaffold_28	34837125	34841207	AATC2_g11278.t1	GOT1L1
scaffold_28	39870907	39885864	ACHA6_g11327.t1	CHRNA6
scaffold_28	39844954	39845832	ACHB3_g11326.t1	CHRNB3
scaffold_28	16609734	16678355	MSTRG.11176.1	ACSL1
scaffold_28	35702372	35855850	ADAM9_g11295.t1	ADAM9
scaffold_28	35856301	35856998	MSTRG.11291.1	ADAM9
scaffold_28	40748221	40748453	MSTRG.11356.1	ADAMTS17
scaffold_28	16946613	16950243	ADT1_g11188.t1	SLC25A4
scaffold_28	10250161	10261311	MSTRG.11151.1	AGA
scaffold_28	25976070	25976280	MSTRG.11218.1	AGO1
scaffold_28	34735985	34767785	AGRA2_g11275.t2	ADGRA2
scaffold_28	6093063	6146439	ANGP2_g11137.t1	ANGPT2
scaffold_28	6105842	6146439	MSTRG.11137.2	ANGPT2
scaffold_28	38957791	39135565	MSTRG.11315.1	ANK1
scaffold_28	17168047	17170752	MSTRG.11181.1	ANKRD37
scaffold_28	17168331	17170452	ANR37_g11191.t1	ANKRD37
scaffold_28	39384525	39400743	AP3M2_g11317.t1	AP3M2
scaffold_28	1493203	1624224	ARHGA_g11126.t1	ARHGEF10
scaffold_28	41638712	41639590	ARY1_g11343.t1	NAT1
scaffold_28	20949970	20983216	ASAH1_g11210.t1	ASAH1
scaffold_28	9216273	9265572	ASB5_g11161.t1	ASB5
scaffold_28	9214284	9296684	MSTRG.11145.1	ASB5
scaffold_28	34927273	34956324	MSTRG.11278.1	ASH2L
scaffold_28	34927539	34956324	MSTRG.11278.2	ASH2L
scaffold_28	10251101	10261311	ASPG_g11165.t1	ASPG
scaffold_28	36058824	36059130	MSTRG.11304.1	ATP6AP1L
scaffold_28	35112854	35172769	MSTRG.11285.14	B3GNT5
scaffold_28	34991700	35024935	BAG4_g11284.t1	BAG4
scaffold_28	34991690	35029234	MSTRG.11281.1	BAG4

scaffold_28	1493306	1624860	MSTRG.11133.2	BCKDHA
scaffold_28	34770006	34773803	BRF2_g11276.t1	BRF2
scaffold_28	17197385	17213197	CD047_g11193.t1	CFAP96
scaffold_28	19312230	19312616	MSTRG.11190.1	C9ORF57
scaffold_28	15514469	15518978	CARF_g11175.t1	CARF
scaffold_28	40486667	40486882	MSTRG.11337.1	CDH26
scaffold_28	15514300	15518978	MSTRG.11158.1	CDKN2AIP
scaffold_28	16555594	16595408	CENPU_g11185.t1	CENPU
scaffold_28	16555423	16595408	MSTRG.11179.1	CENPU
scaffold_28	16961334	16991441	MSTRG.11178.1	CFAP97
scaffold_28	16961600	16991441	MSTRG.11178.2	CFAP97
scaffold_28	40591034	40703755	CGAT1_g11336.t1	CSGALNACT1
scaffold_28	26356360	26356601	CLD23_g11239.t1	CLDN23
scaffold_28	15394706	15394970	MSTRG.11155.1	CLDN24
scaffold_28	1450990	1464540	CLN8_g11125.t1	CLN8
scaffold_28	1443791	1464540	MSTRG.11131.1	CLN8
scaffold_28	1445778	1464540	MSTRG.11131.3	CLN8
scaffold_28	21690679	21708591	CNOT7_g11218.t1	CNOT7
scaffold_28	17857266	17883440	CP4V2_g11200.t1	CYP4V2
scaffold_28	2773680	3165714	CSMD1_g11132.t2	CSMD1
scaffold_28	21393091	21454357	CTR2_g11215.t1	SLC7A2
scaffold_28	15054759	15077206	DCTD_g11171.t1	DCTD
scaffold_28	15052739	15078895	MSTRG.11154.1	DCTD
scaffold_28	28026648	28045152	DCTN6_g11252.t1	DCTN6
scaffold_28	35039456	35060068	DDHD2_g11285.t1	DDHD2
scaffold_28	35038024	35062796	MSTRG.11284.1	DDHD2
scaffold_28	39541056	39570973	DPOLB_g11320.t1	POLB
scaffold_28	31064967	31068027	DUS26_g11267.t1	DUSP26
scaffold_28	17663098	17663871	EBP2_g11197.t1	EBNABP2
scaffold_28	16069305	16167257	ENPP6_g11181.t1	ENPP6
scaffold_28	16065242	16167257	MSTRG.11170.1	ENPP6
scaffold_28	26641260	26691851	ERI1_g11242.t1	ERI1
scaffold_28	484400	552633	ERIC1_g11118.t1	TACC3
scaffold_28	34682710	34700176	MSTRG.11265.2	ERLIN2
scaffold_28	34682613	34700176	MSTRG.11265.1	ERLIN2
scaffold_28	34683944	34700176	ERLN2_g11273.t1	ERLIN2
scaffold_28	17786928	17841990	F149A_g11199.t1	FAM149A
scaffold_28	18140493	18259470	MSTRG.11189.3	FAT1
scaffold_28	18140487	18270282	MSTRG.11189.1	FAT1
scaffold_28	18140487	18273950	MSTRG.11189.2	FAT1
scaffold_28	21933594	21941979	FGF20_g11221.t1	FGF20
scaffold_28	35198001	35286306	FGFR1_g11289.t1	FGFR1
scaffold_28	40123190	40151510	FNTA_g11332.t1	FNTA
scaffold_28	40123190	40154420	MSTRG.11329.1	FNTA
scaffold_28	21804301	21804520	MSTRG.11211.1	FOLH1B

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scaffold_28	30901832	30987268	MSTRG.11256.1	FUT10
scaffold_28	38822418	38839413	MSTRG.11309.1	GOLGA7
scaffold_28	38822486	38839413	MSTRG.11309.2	GOLGA7
scaffold_28	38827140	38839413	MSTRG.11309.4	GOLGA7
scaffold_28	38915633	38934041	GPAT4_g11313.t1	GPAT4
scaffold_28	8705518	8719759	GPM6A_g11155.t1	GPM6A
scaffold_28	28483752	28528692	GSHR_g11256.t1	GPR39
scaffold_28	28482951	28528692	MSTRG.11245.1	GSR
scaffold_28	28389826	28460935	MSTRG.11243.1	GTF2E2
scaffold_28	42018727	42019235	MSTRG.11347.1	GTSF1
scaffold_28	40212721	40246583	HGNAT_g11334.t1	HGSNAT
scaffold_28	40212784	40247647	MSTRG.11332.2	HGSNAT
scaffold_28	40212898	40247647	MSTRG.11332.5	HGSNAT
scaffold_28	39990936	40098768	MSTRG.11326.1	HOOK3
scaffold_28	37470321	37483389	I23O1_g11304.t1	I23O1
scaffold_28	39469627	39520438	MSTRG.11318.1	IKBKB
scaffold_28	39470761	39520438	IKKB_g11319.t1	IKBKB
scaffold_28	39470713	39520438	IKKB_g11319.t2	IKBKB
scaffold_28	38877016	38883290	ILKAP_g11312.t1	ILKAP
scaffold_28	15554353	15560547	ING2_g11177.t1	ING2
scaffold_28	15561387	15562331	MSTRG.11159.1	ING2
scaffold_28	40251452	40291165	INT10_g11335.t1	INTS10
scaffold_28	39540884	39570973	MSTRG.11319.1	IQCK
scaffold_28	39540884	39570973	MSTRG.11319.2	IQCK
scaffold_28	39540894	39570973	MSTRG.11319.3	IQCK
scaffold_28	16300280	16337508	IRF2_g11182.t1	IRF2
scaffold_28	39203461	39312370	KAT6A_g11316.t1	KAT6A
scaffold_28	1665840	1667882	KBTBB_g11127.t1	KBTBB
scaffold_28	1664992	1665196	MSTRG.11132.1	KBTBD11
scaffold_28	20050380	20050634	MSTRG.11193.1	KIF16B
scaffold_28	27993336	28002678	LERL1_g11250.t1	LEPROTL1
scaffold_28	35178071	35189189	LETM2_g11288.t1	LETM2
scaffold_28	25940870	25971557	LONF1_g11235.t1	LONF1
scaffold_28	25955576	25972054	MSTRG.11219.2	LONRF1
scaffold_28	26367199	26378188	LRP4_g11240.t1	LRP4
scaffold_28	34981656	34991687	MSTRG.11280.2	LSM1
scaffold_28	34981408	34991687	MSTRG.11280.1	LSM1
scaffold_28	34981656	34991687	MSTRG.11280.3	LSM1
scaffold_28	34981771	34991687	MSTRG.11280.4	LSM1
scaffold_28	8579435	8579767	MACF1_g11153.t1	MACF1
scaffold_28	30997182	31006661	MAK16_g11265.t1	MAK16
scaffold_28	31005196	31015742	MSTRG.11260.1	MAK16
scaffold_28	28012488	28018387	MBOA4_g11251.t1	MBOAT4
scaffold_28	5971501	6217836	MCPH1_g11136.t1	MCPH1

scaffold_28	5970862	6115456	MSTRG.11136.1	MCPH1
scaffold_28	5971526	6219995	MSTRG.11136.3	MCPH1
scaffold_28	5971526	6019141	MSTRG.11136.4	MCPH1
scaffold_28	26470766	26565102	MFHA1_g11241.t1	MFHAS1
scaffold_28	26468067	26565102	MSTRG.11228.1	MFHAS1
scaffold_28	26468067	26506636	MSTRG.11228.2	MFHAS1
scaffold_28	15626367	15626571	MSTRG.11167.1	MFSD9
scaffold_28	21807043	21909126	MSTRG.11212.2	MICU3
scaffold_28	21805726	21909126	MSTRG.11212.1	MICU3
scaffold_28	22696709	22772482	MSTRG.11210.1	MSR1
scaffold_28	22716172	22744953	MSTRG.11210.3	MSR1
scaffold_28	21571977	21633629	MSTRG.11204.2	MTMR7
scaffold_28	21524977	21636199	MTMR7_g11216.t1	MTMR7
scaffold_28	21228559	21329115	MTUS1_g11213.t1	MTUS1
scaffold_28	21301264	21321210	MSTRG.11208.2	MTUS1
scaffold_28	37329858	37360465	MUC16_g11303.t1	MUC16
scaffold_28	37360466	37388251	MUC16_g11303.t2	MUC16
scaffold_28	41638602	41648227	MSTRG.11346.1	NAT1
scaffold_28	10133407	10182149	NEIL3_g11164.t1	NEIL3
scaffold_28	8590898	8596431	DB108_g11154.t1	DB108_g11154.t1
scaffold_28	25704959	25705540	DUT_g11232.t1	DUT_g11232.t1
scaffold_28	220162	299997	FBX25_g11114.t1	FBX25_g11114.t1
scaffold_28	25709052	25709972	FV1_g11233.t1	FV1_g11233.t1
scaffold_28	429000	429241	MSTRG.11121.1	MSTRG.11121.1
scaffold_28	435903	436105	MSTRG.11122.1	MSTRG.11122.1
scaffold_28	446519	446750	MSTRG.11123.1	MSTRG.11123.1
scaffold_28	219984	251795	MSTRG.11124.1	MSTRG.11124.1
scaffold_28	220274	319994	MSTRG.11124.3	MSTRG.11124.3
scaffold_28	307111	319994	MSTRG.11124.4	MSTRG.11124.4
scaffold_28	529380	552633	MSTRG.11127.2	MSTRG.11127.2
scaffold_28	759065	759291	MSTRG.11129.1	MSTRG.11129.1
scaffold_28	1441651	1441865	MSTRG.11130.1	MSTRG.11130.1
scaffold_28	1444022	1464540	MSTRG.11131.2	MSTRG.11131.2
scaffold_28	5077873	5078237	MSTRG.11134.1	MSTRG.11134.1
scaffold_28	8551547	8551779	MSTRG.11138.1	MSTRG.11138.1
scaffold_28	8573691	8573923	MSTRG.11142.1	MSTRG.11142.1
scaffold_28	9325965	9326191	MSTRG.11144.1	MSTRG.11144.1
scaffold_28	9634036	9634241	MSTRG.11148.1	MSTRG.11148.1
scaffold_28	10844937	10845148	MSTRG.11150.1	MSTRG.11150.1
scaffold_28	15050145	15050679	MSTRG.11152.1	MSTRG.11152.1
scaffold_28	15544181	15545812	MSTRG.11160.1	MSTRG.11160.1
scaffold_28	15550977	15551182	MSTRG.11162.1	MSTRG.11162.1
scaffold_28	15562971	15563270	MSTRG.11164.1	MSTRG.11164.1
scaffold_28	15566255	15566498	MSTRG.11165.1	MSTRG.11165.1
scaffold_28	15568909	15569130	MSTRG.11166.1	MSTRG.11166.1

scaffold_28	16423066	16423270	MSTRG.11171.1	MSTRG.11171.1
scaffold_28	16293932	16380188	MSTRG.11173.1	MSTRG.11173.1
scaffold_28	16300942	16380188	MSTRG.11173.3	MSTRG.11173.3
scaffold_28	17392628	17552136	MSTRG.11185.8	MSTRG.11185.8
scaffold_28	17499681	17516849	MSTRG.11185.9	MSTRG.11185.9
scaffold_28	18128638	18128857	MSTRG.11186.1	MSTRG.11186.1
scaffold_28	17816485	17841990	MSTRG.11187.2	MSTRG.11187.2
scaffold_28	17884009	17884232	MSTRG.11188.1	MSTRG.11188.1
scaffold_28	20583285	20583508	MSTRG.11192.1	MSTRG.11192.1
scaffold_28	19344208	19344436	MSTRG.11194.1	MSTRG.11194.1
scaffold_28	20945776	20946067	MSTRG.11195.1	MSTRG.11195.1
scaffold_28	20948436	20948835	MSTRG.11196.1	MSTRG.11196.1
scaffold_28	20897525	20897940	MSTRG.11197.1	MSTRG.11197.1
scaffold_28	20987560	21083805	MSTRG.11200.1	MSTRG.11200.1
scaffold_28	21639116	21688839	MSTRG.11201.1	MSTRG.11201.1
scaffold_28	21647791	21688839	MSTRG.11201.2	MSTRG.11201.2
scaffold_28	21688887	21708591	MSTRG.11202.1	MSTRG.11202.1
scaffold_28	21688887	21708591	MSTRG.11202.2	MSTRG.11202.2
scaffold_28	21708958	21709347	MSTRG.11203.1	MSTRG.11203.1
scaffold_28	21596500	21624423	MSTRG.11205.1	MSTRG.11205.1
scaffold_28	21618546	21624423	MSTRG.11205.2	MSTRG.11205.2
scaffold_28	21949736	21949957	MSTRG.11209.1	MSTRG.11209.1
scaffold_28	21826150	21909126	MSTRG.11212.4	MSTRG.11212.4
scaffold_28	23100485	23100702	MSTRG.11213.1	MSTRG.11213.1
scaffold_28	23102556	23102771	MSTRG.11214.1	MSTRG.11214.1
scaffold_28	23103246	23103457	MSTRG.11215.1	MSTRG.11215.1
scaffold_28	25943549	25943820	MSTRG.11220.1	MSTRG.11220.1
scaffold_28	25947250	25947596	MSTRG.11221.1	MSTRG.11221.1
scaffold_28	26464879	26465091	MSTRG.11224.1	MSTRG.11224.1
scaffold_28	26451087	26451299	MSTRG.11225.1	MSTRG.11225.1
scaffold_28	26459873	26460089	MSTRG.11226.1	MSTRG.11226.1
scaffold_28	26465512	26465744	MSTRG.11227.1	MSTRG.11227.1
scaffold_28	26756424	26766934	MSTRG.11230.1	MSTRG.11230.1
scaffold_28	26756424	26766370	MSTRG.11230.2	MSTRG.11230.2
scaffold_28	27238488	27238800	MSTRG.11233.1	MSTRG.11233.1
scaffold_28	27240082	27240416	MSTRG.11234.1	MSTRG.11234.1
scaffold_28	27244189	27244410	MSTRG.11235.1	MSTRG.11235.1
scaffold_28	27961765	27962038	MSTRG.11236.1	MSTRG.11236.1
scaffold_28	28007305	28007519	MSTRG.11239.1	MSTRG.11239.1
scaffold_28	28292542	28292756	MSTRG.11242.1	MSTRG.11242.1
scaffold_28	28546920	28569946	MSTRG.11246.2	MSTRG.11246.2
scaffold_28	28982471	28982687	MSTRG.11251.1	MSTRG.11251.1
scaffold_28	30690535	30690746	MSTRG.11252.1	MSTRG.11252.1
scaffold_28	30753041	30753254	MSTRG.11253.1	MSTRG.11253.1
scaffold_28	28860302	28964171	MSTRG.11254.1	MSTRG.11254.1

scaffold_28	28860316	28980947	MSTRG.11254.2	MSTRG.11254.2
scaffold_28	30899738	30899953	MSTRG.11255.1	MSTRG.11255.1
scaffold_28	31016124	31016701	MSTRG.11257.1	MSTRG.11257.1
scaffold_28	31002024	31002254	MSTRG.11259.1	MSTRG.11259.1
scaffold_28	31555786	31556044	MSTRG.11262.1	MSTRG.11262.1
scaffold_28	33464141	33464355	MSTRG.11264.1	MSTRG.11264.1
scaffold_28	34797461	34797661	MSTRG.11271.1	MSTRG.11271.1
scaffold_28	34813941	34905383	MSTRG.11272.1	MSTRG.11272.1
scaffold_28	34892729	34892941	MSTRG.11276.1	MSTRG.11276.1
scaffold_28	35187580	35187811	MSTRG.11283.1	MSTRG.11283.1
scaffold_28	35723472	35724030	MSTRG.11289.1	MSTRG.11289.1
scaffold_28	35731262	35731596	MSTRG.11290.1	MSTRG.11290.1
scaffold_28	35580026	35580255	MSTRG.11292.1	MSTRG.11292.1
scaffold_28	35694472	35696250	MSTRG.11294.2	MSTRG.11294.2
scaffold_28	36097711	36097932	MSTRG.11295.1	MSTRG.11295.1
scaffold_28	36489311	36489512	MSTRG.11296.1	MSTRG.11296.1
scaffold_28	35485968	35486179	MSTRG.11298.1	MSTRG.11298.1
scaffold_28	36522357	36522585	MSTRG.11299.1	MSTRG.11299.1
scaffold_28	35859703	35977134	MSTRG.11301.1	MSTRG.11301.1
scaffold_28	35859704	35943250	MSTRG.11301.2	MSTRG.11301.2
scaffold_28	35860227	35921242	MSTRG.11301.4	MSTRG.11301.4
scaffold_28	36047706	36047938	MSTRG.11302.1	MSTRG.11302.1
scaffold_28	36053042	36053259	MSTRG.11303.1	MSTRG.11303.1
scaffold_28	37329858	37436092	MSTRG.11305.1	MSTRG.11305.1
scaffold_28	37352031	37483389	MSTRG.11305.3	MSTRG.11305.3
scaffold_28	37352223	37436091	MSTRG.11305.4	MSTRG.11305.4
scaffold_28	37403035	37403690	MSTRG.11306.1	MSTRG.11306.1
scaffold_28	38849838	38863576	MSTRG.11310.1	MSTRG.11310.1
scaffold_28	38900348	38936827	MSTRG.11312.1	MSTRG.11312.1
scaffold_28	38900348	38936827	MSTRG.11312.2	MSTRG.11312.2
scaffold_28	38915633	38936827	MSTRG.11312.3	MSTRG.11312.3
scaffold_28	39149747	39149960	MSTRG.11313.1	MSTRG.11313.1
scaffold_28	39176903	39177114	MSTRG.11314.1	MSTRG.11314.1
scaffold_28	39200033	39314971	MSTRG.11316.1	MSTRG.11316.1
scaffold_28	39951011	39952181	MSTRG.11324.1	MSTRG.11324.1
scaffold_28	39991155	40098768	MSTRG.11326.3	MSTRG.11326.3
scaffold_28	40161155	40161409	MSTRG.11327.1	MSTRG.11327.1
scaffold_28	40161709	40162628	MSTRG.11328.1	MSTRG.11328.1
scaffold_28	40165200	40188726	MSTRG.11330.2	MSTRG.11330.2
scaffold_28	40251043	40291165	MSTRG.11333.1	MSTRG.11333.1
scaffold_28	40368750	40368981	MSTRG.11334.1	MSTRG.11334.1
scaffold_28	40361034	40361238	MSTRG.11335.1	MSTRG.11335.1
scaffold_28	40484602	40484810	MSTRG.11336.1	MSTRG.11336.1
scaffold_28	40495432	40495654	MSTRG.11338.1	MSTRG.11338.1
scaffold_28	40502292	40502496	MSTRG.11339.1	MSTRG.11339.1

scaffold_28	40509326	40703755	MSTRG.11340.1	MSTRG.11340.1
scaffold_28	40509326	40703755	MSTRG.11340.2	MSTRG.11340.2
scaffold_28	40509326	40703755	MSTRG.11340.3	MSTRG.11340.3
scaffold_28	40509708	40703755	MSTRG.11340.4	MSTRG.11340.4
scaffold_28	40610163	40632757	MSTRG.11341.1	MSTRG.11341.1
scaffold_28	40818714	40818932	MSTRG.11342.1	MSTRG.11342.1
scaffold_28	41518791	41519011	MSTRG.11343.1	MSTRG.11343.1
scaffold_28	41054775	41514623	MSTRG.11344.1	MSTRG.11344.1
scaffold_28	41097148	41514623	MSTRG.11344.2	MSTRG.11344.2
scaffold_28	41113223	41507969	MSTRG.11344.3	MSTRG.11344.3
scaffold_28	41931394	41931650	MSTRG.11348.1	MSTRG.11348.1
scaffold_28	42016943	42017272	MSTRG.11349.1	MSTRG.11349.1
scaffold_28	40711452	40711677	MSTRG.11351.1	MSTRG.11351.1
scaffold_28	40713860	40714071	MSTRG.11353.1	MSTRG.11353.1
scaffold_28	40718855	40719060	MSTRG.11354.1	MSTRG.11354.1
scaffold_28	40725885	40726109	MSTRG.11355.1	MSTRG.11355.1
scaffold_28	30180453	30390991	NRG1_g11263.t1	NRG1
scaffold_28	35074999	35172769	MSTRG.11285.11	NSD3
scaffold_28	35069307	35172769	MSTRG.11285.6	NSD3
scaffold_28	21015451	21083805	MSTRG.11200.5	PCM1
scaffold_28	21015729	21083805	MSTRG.11200.7	PCM1
scaffold_28	21019210	21083805	MSTRG.11200.8	PCM1
scaffold_28	20995900	21071610	PCM1_g11211.t1	PCM1
scaffold_28	20993195	21083805	MSTRG.11200.2	PCM1
scaffold_28	20993950	21083805	MSTRG.11200.3	PCM1
scaffold_28	21015451	21083805	MSTRG.11200.6	PCM1
scaffold_28	40212888	40231306	MSTRG.11332.3	PCMTD1
scaffold_28	40212898	40247647	MSTRG.11332.4	PCMTD1
scaffold_28	17254298	17284177	PDLI3_g11195.t1	PDLI3
scaffold_28	1685613	1692033	PGBM_g11128.t1	HSPG2
scaffold_28	21330702	21378109	PGFRL_g11214.t1	PDGFRL
scaffold_28	39405605	39428249	MSTRG.11317.1	PLAT
scaffold_28	39405620	39419531	MSTRG.11317.2	PLAT
scaffold_28	6303591	6360570	PLCE_g11138.t1	PLCE
scaffold_28	6303591	6359299	PLCE_g11138.t2	PLCE
scaffold_28	35304308	35305343	PLDX1_g11290.t2	PLXDC1
scaffold_28	35626293	35684324	MSTRG.11287.1	PLEKHA2
scaffold_28	35626293	35684324	MSTRG.11287.2	PLEKHA2
scaffold_28	34720371	34720890	MSTRG.11268.1	PLPBP
scaffold_28	34704322	34720320	PLPHP_g11274.t1	PLPBP
scaffold_28	35062864	35068736	MSTRG.11285.2	PLPP5
scaffold_28	35062864	35068736	MSTRG.11285.3	PLPP5
scaffold_28	35062864	35137708	MSTRG.11285.1	PLPP5
scaffold_28	35064583	35068736	MSTRG.11285.4	PLPP5
scaffold_28	35064638	35068736	PLPP5_g11286.t1	PLPP5

scaffold_28	1849491	1849790	PO5F1_g11131.t1	POU5F1
scaffold_28	39543816	39546427	MSTRG.11319.5	POLB
scaffold_28	40164889	40188726	MSTRG.11330.1	POMK
scaffold_28	28580962	28615034	PP2AB_g11258.t1	PP2AB
scaffold_28	26760187	26761164	PPR3B_g11243.t1	PPP1R3B
scaffold_28	41531274	41534547	PR20G_g11342.t1	PR20G
scaffold_28	26097031	26102265	MSTRG.11222.1	PRAG1
scaffold_28	16511603	16555074	MSTRG.11175.1	PRIMPOL
scaffold_28	16512180	16555074	MSTRG.11175.2	PRIMPOL
scaffold_28	16515446	16555074	MSTRG.11175.4	PRIMPOL
scaffold_28	41175267	41507969	PSD3_g11341.t1	PSD3
scaffold_28	8035068	8035580	PTH1R_g11151.t1	PTH1R
scaffold_28	26102393	26111260	PTN21_g11236.t1	PTPN21
scaffold_28	28858321	28859367	PURG_g11261.t1	PURG
scaffold_28	34783063	34783646	MSTRG.11269.1	RAB11FIP1
scaffold_28	42195658	42197513	MSTRG.11350.1	RALGDS
scaffold_28	223099	223443	RASF3_g11115.t1	RASSF3
scaffold_28	34783780	34810915	RFIP1_g11277.t1	RAB11FIP1
scaffold_28	25613028	25654679	RHG07_g11230.t1	DLC1
scaffold_28	39958629	39990729	MSTRG.11325.1	RNF170
scaffold_28	15546083	15553544	RPAP3_g11176.t1	RPAP3
scaffold_28	15652849	15665340	MSTRG.11168.1	RWDD4
scaffold_28	15654113	15671990	RWDD4_g11178.t1	RWDD4
scaffold_28	39612005	39658590	S20A2_g11323.t1	SLC20A2
scaffold_28	28818428	28818859	S35F5_g11260.t1	SLC35F5
scaffold_28	27963233	27987842	SARAF_g11249.t1	SARAF
scaffold_28	38585364	38628227	SFRP1_g11309.t1	SFRP1
scaffold_28	38583119	38583401	MSTRG.11307.1	SFRP1
scaffold_28	40173674	40188726	SG196_g11333.t1	SG196
scaffold_28	40712637	40771686	SH24A_g11337.t1	SH24A
scaffold_28	40751863	40752245	MSTRG.11357.1	SH2D2A
scaffold_28	40771831	40776947	ISPD_g11338.t1	SH2D4A
scaffold_28	25704686	25706216	SHPS1_g11231.t1	SIRPA
scaffold_28	39705268	39715691	MSTRG.11321.1	SLC20A2
scaffold_28	39711351	39728842	MSTRG.11322.1	SLC20A2
scaffold_28	28817534	28817750	MSTRG.11248.1	SLC35F5
scaffold_28	38850668	38863576	SLD5_g11311.t1	GINS4
scaffold_28	39721123	39727887	SMI19_g11324.t1	SMIM19
scaffold_28	39717693	39728842	MSTRG.11322.2	SMIM19
scaffold_28	39718494	39719303	MSTRG.11322.3	SMIM19
scaffold_28	17001645	17130150	SNX25_g11189.t1	SNX25
scaffold_28	17338048	17409386	MSTRG.11185.1	SORBS2
scaffold_28	17338048	17552136	MSTRG.11185.2	SORBS2
scaffold_28	17338075	17409386	MSTRG.11185.3	SORBS2
scaffold_28	17338088	17552136	MSTRG.11185.4	SORBS2

scaffold_28	17338088	17409386	MSTRG.11185.5	SORBS2
scaffold_28	17338120	17409386	MSTRG.11185.6	SORBS2
scaffold_28	9187023	9198049	SPAT4_g11160.t1	SPAT4
scaffold_28	9296469	9314308	MSTRG.11146.1	SPCS3
scaffold_28	9296580	9309324	SPCS3_g11162.t1	SPCS3
scaffold_28	17340148	17429289	SRBS2_g11196.t1	SRBS2
scaffold_28	31435607	31437606	SRCRM_g11268.t1	SCART1
scaffold_28	34956598	34956992	MSTRG.11277.1	STAR
scaffold_28	34957262	34967138	MSTRG.11279.1	STAR
scaffold_28	34958006	34963117	STAR_g11282.t1	STAR
scaffold_28	28024237	28045152	MSTRG.11240.1	STMND1
scaffold_28	15889147	15986218	MSTRG.11172.1	STOX2
scaffold_28	15890435	15996991	MSTRG.11172.3	STOX2
scaffold_28	15890409	15993671	STOX2_g11180.t1	STOX2
scaffold_28	28390328	28457939	T2EB_g11254.t1	T2EB
scaffold_28	35511257	35579196	MSTRG.11297.2	TACC1
scaffold_28	35553514	35574744	MSTRG.11297.3	TACC1
scaffold_28	35567306	35574744	MSTRG.11297.4	TACC1
scaffold_28	35483032	35574744	TACC1_g11291.t1	TACC1
scaffold_28	37648352	37648672	TCIM_g11305.t1	TCIM
scaffold_28	319991	379752	MSTRG.11126.2	TDRP
scaffold_28	320051	325244	MSTRG.11126.3	TDRP
scaffold_28	14551562	14968995	TEN3_g11170.t1	TENM3
scaffold_28	14551562	14976403	MSTRG.11153.1	TENM3
scaffold_28	28643570	28694331	TEX15_g11259.t1	TEX15
scaffold_28	39945427	39950759	THAP1_g11329.t1	THAP1
scaffold_28	17768431	17775105	TLR3_g11198.t1	TLR3
scaffold_28	35692928	35701878	TM2D2_g11294.t1	TM2D2
scaffold_28	27091338	27230355	MSTRG.11232.1	TNKS
scaffold_28	27091338	27306123	TNKS1_g11245.t1	TNKS1
scaffold_28	39406314	39414933	TPA_g11318.t1	TPA
scaffold_28	15672761	15716140	TPC11_g11179.t1	TRAPPC11
scaffold_28	41048661	41048954	TPC12_g11339.t1	TPC12
scaffold_28	15669926	15717167	MSTRG.11169.1	TRAPPC11
scaffold_28	19423714	19430504	TRIML_g11207.t1	TRIML1
scaffold_28	25717327	25730420	TRM9B_g11234.t1	TRM9B
scaffold_28	31007170	31015742	TTI2_g11266.t1	TTI2
scaffold_28	31038319	31049839	TTI2_g11266.t2	TTI2
scaffold_28	23105978	23359950	MSTRG.11216.1	TUSC3
scaffold_28	23107736	23359950	TUSC3_g11224.t1	TUSC3
scaffold_28	28546917	28569946	UBXN8_g11257.t1	UBXN8
scaffold_28	17171397	17194813	MSTRG.11182.2	UFSP2
scaffold_28	17171072	17194813	UFSP2_g11192.t1	UFSP2
scaffold_28	32472734	32982433	UNC5D_g11269.t1	UNC5D
scaffold_28	38877085	38883290	MSTRG.11311.2	USP6NL

scaffold_28	38877638	38883290	MSTRG.11311.3	USP6NL
scaffold_28	39591261	39600906	VDAC3_g11322.t1	VDAC3
scaffold_28	39588852	39600906	MSTRG.11320.1	VDAC3
scaffold_28	9608174	9714275	VEGFC_g11163.t1	VEGFC
scaffold_28	21649447	21688839	VP37A_g11217.t1	VPS37A
scaffold_28	35075209	35172769	MSTRG.11285.13	NSD2
scaffold_28	35069307	35137708	MSTRG.11285.7	NSD2
scaffold_28	35069307	35137708	MSTRG.11285.8	NSD2
scaffold_28	35074999	35137708	NSD3_g11287.t1	NSD2
scaffold_28	28893594	28980947	MSTRG.11254.4	WRN
scaffold_28	28880354	28980383	WRN_g11262.t1	WRN
scaffold_28	15190611	15394326	WWC2_g11173.t1	WWC2
scaffold_28	21718236	21778223	ZDHC2_g11219.t1	ZDHHC2
scaffold_28	21711586	21778223	MSTRG.11207.1	ZDHHC2
scaffold_28	19294775	19309997	MSTRG.11191.1	ZFP42
scaffold_28	19294775	19309997	MSTRG.11191.2	ZFP42
scaffold_28	19294779	19309997	MSTRG.11191.3	ZFP42
scaffold_28	14805	18071	ZN596_g11112.t1	ZNF596
scaffold_28	34650857	34653642	ZN703_g11272.t1	ZNF703
scaffold_28	19752	19955	MSTRG.11118.1	ZNF596
scaffold_28	8562506	8562726	MSTRG.11139.1	ZNF596
scaffold_28	8561767	8562241	MSTRG.11143.1	ZNF596
scaffold_28	8575767	8579674	MSTRG.11140.1	ZNF705A
scaffold_28	40211176	40211622	MSTRG.11331.1	ZWILCH
scaffold_29	29438568	29554332	ABCA1_g11781.t1	ABCA1
scaffold_29	29419279	29554332	MSTRG.11700.1	ABCA1
scaffold_29	29419279	29554332	MSTRG.11700.2	ABCA1
scaffold_29	29588546	29597471	MSTRG.11702.1	ABCA1
scaffold_29	1001724	1022041	ABCA2_g11383.t1	ABCA2
scaffold_29	26179820	26185104	ABITM_g11762.t1	ABITRAM
scaffold_29	6276847	6321681	ABL1_g11487.t1	ABL1
scaffold_29	26245938	26247284	ACL7A_g11764.t1	ACTL7A
scaffold_29	26250963	26252216	ACL7B_g11765.t1	ACTL7B
scaffold_29	4144214	4152899	REXO4_g11449.t1	ADAMTS13
scaffold_29	7717056	7726176	MSTRG.11511.1	ADAMTS17
scaffold_29	1147851	1155656	AEGP_g11391.t1	MAMDC4
scaffold_29	1157642	1159088	AEGP_g11391.t2	MAMDC4
scaffold_29	11492650	11517784	AGRD2_g11589.t1	ADGRD2
scaffold_29	6100464	6119122	AIF1L_g11483.t1	AIF1L
scaffold_29	1161858	1164785	AJM1_g11392.t1	AJM1
scaffold_29	8632909	8641855	MSTRG.11550.1	AK1
scaffold_29	25132809	25569409	AKAP2_g11756.t1	PALM2AKAP2
scaffold_29	25129025	25231537	MSTRG.11674.1	PALM2AKAP2
scaffold_29	5576630	5719093	MSTRG.11472.1	AKAP5
scaffold_29	21571327	21612683	AKNA_g11708.t1	AKNA

scaffold_29	34828460	34832112	ALG2_g11837.t1	ALG2
scaffold_29	34832250	34832775	MSTRG.11744.1	ALG2
scaffold_29	35831693	35857194	AN32B_g11849.t1	ANP32B
scaffold_29	831074	842995	MSTRG.11388.1	ANAPC2
scaffold_29	831127	842995	ANC2_g11371.t1	ANAPC2
scaffold_29	9293442	9314091	ANGL2_g11566.t1	ANGPTL2
scaffold_29	35205853	35254971	ANKS6_g11841.t1	ANKS6
scaffold_29	35831212	35857194	MSTRG.11762.1	ANP32B
scaffold_29	39830724	39848338	ANPRB_g11910.t1	NPR2
scaffold_29	39964652	39968652	ARG39_g11917.t1	ARHGEF39
scaffold_29	39964516	39968652	MSTRG.11813.1	ARHGEF39
scaffold_29	39964652	39968652	MSTRG.11813.2	ARHGEF39
scaffold_29	11153052	11160069	ARP5L_g11581.t1	ARPC5L
scaffold_29	11152493	11160069	MSTRG.11583.1	ARPC5L
scaffold_29	441413	450233	ARRD1_g11348.t1	ARRDC1
scaffold_29	441128	450233	MSTRG.11366.1	ARRDC1
scaffold_29	441197	450233	MSTRG.11366.2	ARRDC1
scaffold_29	7303908	7308547	ASB6_g11503.t1	ASB6
scaffold_29	19013394	19639379	ASTN2_g11693.t1	ASTN2
scaffold_29	19664326	19858247	ASTN2_g11695.t1	ASTN2
scaffold_29	40111801	40199464	AT8B5_g11925.t1	ATP8B5P
scaffold_29	3999106	4035416	ATL2_g11444.t1	ATL2
scaffold_29	32986040	32988710	BAAT_g11824.t1	BAAT
scaffold_29	3372729	3373009	MSTRG.11435.1	BACE1
scaffold_29	8419930	8423069	BBLN_g11540.t1	BBLN
scaffold_29	10892207	10911456	BIP_g11576.t1	HSPA5
scaffold_29	3585010	3606465	BRD3_g11437.t1	BRD3
scaffold_29	3569454	3608401	MSTRG.11441.1	BRD3
scaffold_29	3569454	3608401	MSTRG.11441.2	BRD3
scaffold_29	3611119	3612005	BRDOS_g11438.t1	BRD3OS
scaffold_29	22490775	22510539	BSPRY_g11723.t1	BSPRY
scaffold_29	22487172	22490135	HDHD3_g11722.t1	BSPRY
scaffold_29	1083363	1085141	MSTRG.11398.1	C8G
scaffold_29	1083363	1085419	MSTRG.11398.2	C8G
scaffold_29	7931302	7934216	MSTRG.11521.2	SPOUT1
scaffold_29	2467787	2471972	CI116_g11426.t1	PIERCE1
scaffold_29	8439508	8441630	MSTRG.11540.1	BBLN
scaffold_29	22440983	22457029	MSTRG.11641.1	C9ORF43
scaffold_29	7157702	7164658	MSTRG.11496.1	C9ORF78
scaffold_29	39951089	39955666	MSTRG.11805.1	CA9
scaffold_29	3814	214224	CAC1B_g11345.t1	CACNA1B
scaffold_29	4096381	4107709	MSTRG.11445.1	CACFD1
scaffold_29	48848	72057	MSTRG.11361.2	CACNA1B
scaffold_29	48848	93739	MSTRG.11361.3	CACNA1B
scaffold_29	7699712	7713275	CACP_g11511.t1	PRG4

scaffold_29	39951164	39957423	CAH9_g11916.t1	CA9
scaffold_29	36891692	36892864	CALI_g11869.t1	CCIN
scaffold_29	38826122	38827894	CALI_g11888.t1	CCIN
scaffold_29	39141457	39141963	CALI_g11889.t1	CCIN
scaffold_29	39455878	39456990	CALI_g11893.t1	CCIN
scaffold_29	1622000	1698426	CAMP1_g11407.t1	CAMSAP1
scaffold_29	1715890	1740713	CAMP1_g11407.t2	CAMSAP1
scaffold_29	1619183	1635150	MSTRG.11413.1	CAMSAP1
scaffold_29	32807076	32807423	CANB2_g11819.t1	PPP3R2
scaffold_29	39968685	39971183	CC107_g11918.t1	CCDC107
scaffold_29	1195883	1205586	CC183_g11394.t1	CCDC183
scaffold_29	1995957	2043393	CC187_g11412.t1	CCDC187
scaffold_29	39964652	39968652	MSTRG.11813.3	CCDC107
scaffold_29	39968473	39971183	MSTRG.11814.1	CCDC107
scaffold_29	39968864	39969734	MSTRG.11815.1	CCDC107
scaffold_29	38429438	38450585	STR6L_g11887.t1	CCDC180
scaffold_29	1195683	1205586	MSTRG.11406.1	CCDC183
scaffold_29	1195805	1205586	MSTRG.11406.2	CCDC183
scaffold_29	34542936	34543490	CCHL_g11835.t1	HCCS
scaffold_29	39534363	39610171	MSTRG.11798.1	CCIN
scaffold_29	12834867	12848664	MSTRG.11597.1	CCL22
scaffold_29	12834890	12848664	MSTRG.11597.2	CCL22
scaffold_29	39999460	40004785	MSTRG.11818.1	CD72
scaffold_29	22573078	22578014	CDC26_g11729.t1	CDC26
scaffold_29	16313465	16487819	MSTRG.11627.2	CDK5RAP2
scaffold_29	16360978	16487819	MSTRG.11627.3	CDK5RAP2
scaffold_29	8706741	8710613	CDK9_g11552.t1	CDK9
scaffold_29	8706198	8710613	MSTRG.11553.1	CDK9
scaffold_29	11203755	11232724	MSTRG.11586.1	CEACAM19
scaffold_29	23765851	23798402	CEGT_g11743.t1	UGCG
scaffold_29	4463613	4471400	CEL_g11460.t1	CEL
scaffold_29	8215310	8224986	MSTRG.11532.1	CERCAM
scaffold_29	8766737	8772499	CF157_g11557.t1	CFAP157
scaffold_29	8766164	8769443	MSTRG.11556.1	CFAP157
scaffold_29	7924284	7931153	CI114_g11520.t1	SPOUT1
scaffold_29	40570197	40574258	CI131_g11933.t1	SPATA31G1
scaffold_29	25104890	25110962	CI152_g11755.t1	C9ORF152
scaffold_29	8403487	8418635	CIZ1_g11539.t1	CIZ1
scaffold_29	8402623	8418635	MSTRG.11541.1	CIZ1
scaffold_29	8402729	8410370	MSTRG.11541.2	CIZ1
scaffold_29	8402739	8418635	MSTRG.11541.3	CIZ1
scaffold_29	8403299	8410370	MSTRG.11541.4	CIZ1
scaffold_29	16310819	16487819	CK5P2_g11689.t1	CDK5RAP2
scaffold_29	39396835	39455835	CLCA_g11892.t1	CLCA1
scaffold_29	39396567	39418570	MSTRG.11794.1	CLTA

scaffold_29	15744942	15816582	CNTRL_g11678.t1	CNTRL
scaffold_29	15742143	15827433	MSTRG.11615.1	CNTRL
scaffold_29	15742143	15827433	MSTRG.11615.2	CNTRL
scaffold_29	15742881	15827433	MSTRG.11615.3	CNTRL
scaffold_29	15754738	15827433	MSTRG.11615.5	CNTRL
scaffold_29	15775005	15782776	MSTRG.11615.6	CNTRL
scaffold_29	15905704	15993558	CO5_g11680.t1	C5
scaffold_29	1083615	1085141	CO8G_g11387.t1	C8G
scaffold_29	34968776	35076513	COFA1_g11839.t1	COL15A1
scaffold_29	22674261	22681852	COPT2_g11732.t1	SLC31A2
scaffold_29	8326149	8332119	MSTRG.11537.1	COQ4
scaffold_29	8326149	8332119	MSTRG.11537.2	COQ4
scaffold_29	8328696	8331218	MSTRG.11537.4	COQ4
scaffold_29	35736649	35762886	COR2A_g11845.t1	CORO2A
scaffold_29	21659017	21803146	CORA1_g11710.t1	COL27A1
scaffold_29	7714727	7715085	MSTRG.11509.1	CRAT
scaffold_29	7699464	7713275	MSTRG.11510.1	CRAT
scaffold_29	7699464	7713275	MSTRG.11510.2	CRAT
scaffold_29	39900466	39904155	CREB3_g11913.t1	CREB3
scaffold_29	12432595	12454610	CRUM2_g11594.t1	CRB2
scaffold_29	26117248	26177628	CTNL1_g11761.t1	CTNNAL1
scaffold_29	16090868	16102805	CUTA_g11683.t1	CUTA
scaffold_29	774245	774446	MSTRG.11381.1	CUTC
scaffold_29	15153980	15280193	MSTRG.11609.1	DAB2IP
scaffold_29	15154710	15238010	MSTRG.11609.2	DAB2IP
scaffold_29	15155917	15280193	DAB2P_g11671.t1	DAB2IP
scaffold_29	8048102	8068064	DC2I2_g11527.t1	DYNC2I2
scaffold_29	8048036	8068064	DC2I2_g11527.t2	DYNC2I2
scaffold_29	37907598	37956887	DCA10_g11882.t1	DCAF10
scaffold_29	37916624	37948678	MSTRG.11786.2	DCAF10
scaffold_29	40817630	40817881	DCX_g11937.t1	DCX
scaffold_29	4772798	4852595	MSTRG.11465.1	DDX31
scaffold_29	11921614	12430206	DEN1A_g11593.t1	DENND1A
scaffold_29	2432123	2441429	DIK1B_g11423.t1	DIPK1B
scaffold_29	23995654	24013217	DJC25_g11746.t1	DJC25
scaffold_29	40604935	40614555	MSTRG.11834.1	DNAJB5
scaffold_29	23991338	24012858	MSTRG.11668.4	DNAJC25
scaffold_29	40606947	40614555	DNJB5_g11934.t1	DNAJB5
scaffold_29	2102518	2104494	DNLZ_g11414.t1	DNLZ
scaffold_29	7838900	7840516	DOLK_g11516.t1	DOLK
scaffold_29	7840396	7852848	MSTRG.11518.1	DOLK
scaffold_29	7718489	7726176	DOPP1_g11512.t1	DOLPP1
scaffold_29	470688	492545	DPH7_g11349.t2	DPH7
scaffold_29	8581726	8584532	DPM2_g11545.t1	DPM2
scaffold_29	22457768	22458953	DPOE3_g11719.t1	POLE3

scaffold_29	22457567	22458953	DPOE3_g11719.t2	POLE3
scaffold_29	928980	933037	DPP2_g11375.t1	DPP7
scaffold_29	8351289	8393140	DYN1_g11538.t2	DNM1
scaffold_29	8065021	8068064	MSTRG.11528.3	DYNC2I2
scaffold_29	25842936	25979121	E41LB_g11758.t1	EPB41L4B
scaffold_29	24122051	24216491	ECM29_g11749.t1	ECPAS
scaffold_29	24121766	24216491	MSTRG.11671.1	ECPAS
scaffold_29	1142534	1146323	EDF1_g11390.t1	EDF1
scaffold_29	1142654	1146323	EDF1_g11390.t2	EDF1
scaffold_29	2387843	2392174	EGFL7_g11421.t1	EGFL7
scaffold_29	8651576	8682305	EGLN_g11550.t1	EGLN1
scaffold_29	244004	437597	EHMT1_g11347.t1	EHMT1
scaffold_29	38251795	38252736	MSTRG.11791.1	EIF1
scaffold_29	26197501	26241723	ELP1_g11763.t1	ELP1
scaffold_29	26185294	26245935	MSTRG.11686.1	ELP1
scaffold_29	600208	603525	ENTP8_g11355.t1	ENTPD8
scaffold_29	614926	689192	MSTRG.11378.1	ENTPD8
scaffold_29	614948	719632	MSTRG.11378.2	ENTPD8
scaffold_29	25843067	25917879	MSTRG.11673.3	EPB41L4B
scaffold_29	25842939	25917879	MSTRG.11673.2	EPB41L4B
scaffold_29	34063880	34149984	ERP44_g11832.t1	ERP44
scaffold_29	34143328	34152337	MSTRG.11741.1	ERP44
scaffold_29	655372	656234	MSTRG.11378.5	EXD3
scaffold_29	6424556	6432698	EXOS2_g11488.t1	EXOSC2
scaffold_29	37888435	37893528	EXOS3_g11881.t1	EXOS3
scaffold_29	776271	779530	F166A_g11362.t1	FAM166A
scaffold_29	36640285	36646227	F205C_g11864.t1	F205C
scaffold_29	40519191	40521679	F214B_g11928.t1	F214B
scaffold_29	8939777	8940905	MSTRG.11561.1	FAM129B
scaffold_29	40522338	40522565	MSTRG.11822.1	FAM214B
scaffold_29	19855498	19855710	MSTRG.11633.1	FAM49A
scaffold_29	2432036	2441429	MSTRG.11430.1	DIPK1B
scaffold_29	2432054	2441429	MSTRG.11430.2	DIPK1B
scaffold_29	40543681	40549114	FANCG_g11931.t1	FANCG
scaffold_29	40543681	40564783	MSTRG.11830.2	FANCG
scaffold_29	40543681	40564783	MSTRG.11830.4	FANCG
scaffold_29	40543679	40564783	MSTRG.11830.1	FANCG
scaffold_29	40543681	40564783	MSTRG.11830.3	FANCG
scaffold_29	6238033	6260248	FBCD1_g11485.t1	FBCD1
scaffold_29	37643752	37693405	FBX10_g11878.t1	FBX10
scaffold_29	16132903	16163453	FBXW2_g11686.t1	FBXW2
scaffold_29	16135179	16169268	MSTRG.11621.2	FBXW2
scaffold_29	16135261	16142579	MSTRG.11621.3	FBXW2
scaffold_29	16153059	16163453	MSTRG.11621.4	FBXW2
scaffold_29	1086997	1090723	FBXW5_g11388.t1	FBXW5

scaffold_29	1084962	1090723	MSTRG.11399.1	FBXW5
scaffold_29	6260368	6260586	MSTRG.11486.1	FIBCD1
scaffold_29	22616496	22670791	FKB15_g11731.t1	FKBP15
scaffold_29	28868316	28908420	MSTRG.11697.3	FKTN
scaffold_29	28868344	28924926	MSTRG.11697.4	FKTN
scaffold_29	4098676	4107709	FLOWR_g11447.t1	FLOWR
scaffold_29	6980571	7107014	FNBP1_g11495.t1	FNBP1
scaffold_29	6980302	7107014	MSTRG.11493.1	FNBP1
scaffold_29	7074128	7107014	MSTRG.11493.3	FNBP1
scaffold_29	8683218	8691969	FOLC_g11551.t1	FPGS
scaffold_29	37858466	37864545	MSTRG.11783.4	FRMPD1
scaffold_29	37774731	37864545	MSTRG.11783.1	FRMPD1
scaffold_29	37774733	37864545	MSTRG.11783.2	FRMPD1
scaffold_29	37816765	37864545	FRPD1_g11879.t1	FRMPD1
scaffold_29	26009365	26009671	MSTRG.11677.1	FRRS1L
scaffold_29	26012723	26013338	MSTRG.11679.1	FRRS1L
scaffold_29	26013815	26014101	MSTRG.11680.1	FRRS1L
scaffold_29	25986156	26018276	FRS1L_g11759.t1	FRRS1L
scaffold_29	28930337	28991880	MSTRG.11698.1	FSD1L
scaffold_29	6474701	6522831	FUBP3_g11490.t1	FUBP3
scaffold_29	6473260	6522831	MSTRG.11488.1	FUBP3
scaffold_29	6474667	6522831	MSTRG.11488.2	FUBP3
scaffold_29	997810	998913	FUT7_g11382.t1	FUT7
scaffold_29	35633816	35634033	MSTRG.11751.1	GABBR2
scaffold_29	35151920	35205246	MSTRG.11747.1	GALNT12
scaffold_29	10831923	10875169	GAPD1_g11575.t1	GAPD1
scaffold_29	39462474	39472091	GAPR1_g11894.t1	GLIPR2
scaffold_29	10827982	10892224	MSTRG.11576.2	GAPVD1
scaffold_29	10828069	10892224	MSTRG.11576.3	GAPVD1
scaffold_29	9020237	9178498	GARL3_g11564.t1	GARNL3
scaffold_29	39889356	39900223	GBA2_g11912.t1	GBA2
scaffold_29	23982246	23987019	GBG10_g11745.t1	GNG10
scaffold_29	4402400	4411139	GBGT1_g11458.t1	GBGT1
scaffold_29	4401170	4411139	MSTRG.11456.1	GBGT1
scaffold_29	4401170	4411139	MSTRG.11456.2	GBGT1
scaffold_29	15600017	15627120	GELS_g11676.t1	GELS
scaffold_29	15452938	15480998	GGTA1_g11673.t1	GGTA1
scaffold_29	39354893	39390768	GLCNE_g11891.t1	GLCNE
scaffold_29	35152996	35192345	GLT12_g11840.t1	GALNT12
scaffold_29	4414611	4461930	GNDS_g11459.t1	RALGDS
scaffold_29	23980002	23986650	MSTRG.11667.2	GNG10
scaffold_29	23979992	23987019	MSTRG.11667.1	GNG10
scaffold_29	11108367	11150263	GOGA1_g11580.t1	GOGA1
scaffold_29	8331572	8349456	GOGA2_g11537.t1	GOLGA2
scaffold_29	11105966	11151489	MSTRG.11584.1	GOLGA1

scaffold_29	8331453	8349456	MSTRG.11538.1	GOLGA2
scaffold_29	8331505	8339859	MSTRG.11538.2	GOLGA2
scaffold_29	8331505	8339859	MSTRG.11538.3	GOLGA2
scaffold_29	8331572	8349456	MSTRG.11538.4	GOLGA2
scaffold_29	8331572	8349456	MSTRG.11538.5	GOLGA2
scaffold_29	8331572	8349456	MSTRG.11538.6	GOLGA2
scaffold_29	8331572	8349456	MSTRG.11538.7	GOLGA2
scaffold_29	6904664	6974598	GP107_g11494.t1	GP107
scaffold_29	12737864	12738913	GPR21_g11598.t1	GPR21
scaffold_29	2064130	2097855	GPSM1_g11413.t1	GPSM1
scaffold_29	2062605	2097855	MSTRG.11419.1	GPSM1
scaffold_29	2063986	2097855	MSTRG.11419.2	GPSM1
scaffold_29	37564159	37574349	GRHPR_g11875.t1	GRHPR
scaffold_29	37564110	37574349	MSTRG.11778.3	GRHPR
scaffold_29	15599811	15655527	MSTRG.11611.1	GSN
scaffold_29	8216333	8224986	GT253_g11532.t1	GT253
scaffold_29	4088507	4095587	GTR6_g11446.t1	SLC2A6
scaffold_29	34543728	34544132	MSTRG.11736.1	HCCS
scaffold_29	22471429	22475959	HEM2_g11720.t1	NCKAP1
scaffold_29	39825189	39827032	HINT2_g11908.t1	HINT2
scaffold_29	39826104	39827032	MSTRG.11800.2	HINT2
scaffold_29	6642554	6790232	HMCN2_g11492.t1	HMCN2
scaffold_29	39742673	39742972	HRCT1_g11901.t1	HRCT1
scaffold_29	8442285	8447521	MSTRG.11544.2	HS2ST1
scaffold_29	23323122	23389720	HSDL2_g11740.t1	HSDL2
scaffold_29	10905261	10911456	MSTRG.11577.2	HSPA5
scaffold_29	7646121	7647332	IER5L_g11509.t1	IER5L
scaffold_29	39610087	39623014	MSTRG.11799.1	MTIF2
scaffold_29	3610107	3612567	MSTRG.11439.1	IF2
scaffold_29	2162425	2175421	INP5E_g11417.t1	INP5E
scaffold_29	2161163	2176014	MSTRG.11426.1	INPP5E
scaffold_29	33924218	33966223	MSTRG.11739.2	INVS
scaffold_29	33924449	34063509	MSTRG.11739.3	INVS
scaffold_29	37511650	37516611	IRAK2_g11874.t1	IRAK2
scaffold_29	8636107	8641855	KAD1_g11549.t1	AK1
scaffold_29	4605762	4735149	KAD8_g11465.t1	KAD8
scaffold_29	7911641	7920559	KAT1_g11519.t1	KYAT1
scaffold_29	1559211	1604097	KCNT1_g11406.t1	KCNT1
scaffold_29	7934253	7950540	MSTRG.11522.1	KCTD7
scaffold_29	24195815	24216491	MSTRG.11671.5	ECPAS
scaffold_29	23199410	23309680	MSTRG.11660.4	KIAA1958
scaffold_29	23194387	23309680	MSTRG.11660.2	KIAA1958
scaffold_29	27400311	27403582	KLF4_g11768.t1	KLF4
scaffold_29	8992814	8993016	MSTRG.11563.1	KLHL38
scaffold_29	7911290	7920559	MSTRG.11519.1	KYAT1

scaffold_29	40031888	40033036	LBN_g11923.t1	EVC2
scaffold_29	1231369	1233605	LCN15_g11397.t1	LCN15
scaffold_29	8427278	8431048	MSTRG.11539.1	LCN2
scaffold_29	1256978	1258368	MSTRG.11410.3	LCN6
scaffold_29	1252562	1258368	MSTRG.11410.1	LCN6
scaffold_29	1036099	1038111	LCNL1_g11385.t1	LCNL1
scaffold_29	1939867	1945540	LHX3_g11410.t1	LHX3
scaffold_29	9648843	9727341	LMX1B_g11570.t1	LMX1B
scaffold_29	848070	848688	LRC26_g11372.t1	LRRC26
scaffold_29	847623	848688	LRC26_g11372.t2	LRRC26
scaffold_29	22553474	22553747	MSTRG.11647.1	LY6H
scaffold_29	886439	919019	MA1B1_g11374.t1	MAN1B1
scaffold_29	937048	940447	MA1B1_g11377.t1	MAN1B1
scaffold_29	913308	919019	MSTRG.11389.2	MAN1B1
scaffold_29	934242	949138	MSTRG.11391.1	MAN1B1
scaffold_29	934242	949138	MSTRG.11391.2	MAN1B1
scaffold_29	937048	949138	MSTRG.11391.4	MAN1B1
scaffold_29	1159856	1160192	MSTRG.11403.1	MAP6
scaffold_29	10535057	10773263	MSTRG.11574.2	MAPKAP1
scaffold_29	10535057	10773263	MSTRG.11574.1	MAPKAP1
scaffold_29	8941595	8982388	MSTRG.11564.1	MASP1
scaffold_29	21847255	21848898	MAVS_g11713.t1	MAVS
scaffold_29	4144270	4152899	MSTRG.11446.2	MCF2L2
scaffold_29	4206923	4212934	MED22_g11455.t1	MED22
scaffold_29	5284483	5489789	MED27_g11474.t1	MED27
scaffold_29	16214399	16215286	MEGF9_g11687.t1	MEGF9
scaffold_29	16228453	16292982	MEGF9_g11688.t1	MEGF9
scaffold_29	36791863	36874661	MELK_g11868.t1	MELK
scaffold_29	802676	814405	MSTRG.11385.1	MIDN
scaffold_29	802676	814405	MSTRG.11385.2	MIDN
scaffold_29	7741460	7761379	MIGA2_g11513.t1	MIGA2
scaffold_29	35944410	35944643	MSTRG.11765.1	MPIG6B
scaffold_29	2148430	2158619	MPPA_g11416.t1	PMPCA
scaffold_29	32888286	32906228	MPRI_g11821.t1	MPRI
scaffold_29	2462756	2466534	MSTRG.11432.1	MRPS2
scaffold_29	14687119	14743820	MSTRG.11606.1	MRRF
scaffold_29	39885239	39888958	MSTRG.11807.1	MSMP
scaffold_29	39885271	39887622	MSTRG.11807.2	MSMP
scaffold_29	3715077	3715991	MUC1_g11439.t1	MUC1
scaffold_29	1784407	1815443	NACC2_g11408.t1	NACC2
scaffold_29	8491310	8494305	NAIF1_g11544.t1	NAIF1
scaffold_29	36128723	36128940	MSTRG.11767.1	NCBP1
scaffold_29	36129990	36171209	MSTRG.11770.1	NCBP1
scaffold_29	36130359	36171025	NCBP1_g11855.t1	NCBP1
scaffold_29	6828854	6878987	MSTRG.11490.1	NCS1

scaffold_29	6838689	6844272	NCS1_g11493.t1	NCS1
scaffold_29	804720	814405	MSTRG.11385.3	NDOR1
scaffold_29	804738	814405	MSTRG.11385.4	NDOR1
scaffold_29	804738	814405	MSTRG.11385.5	NDOR1
scaffold_29	805539	806562	MSTRG.11385.6	NDOR1
scaffold_29	805566	814405	NDOR1_g11367.t1	NDOR1
scaffold_29	14835537	14849175	NDUA8_g11668.t1	NDUFA8
scaffold_29	11601902	11646322	NEK6_g11591.t1	NEK6
scaffold_29	760450	769538	NELFB_g11360.t1	NELFB
scaffold_29	8888808	8939558	NIBA2_g11559.t1	NIBA2
scaffold_29	29564859	29605034	MSTRG.11701.2	NIPSNAP3A
scaffold_29	29564600	29576640	MSTRG.11701.1	NIPSNAP3A
scaffold_29	2753288	2777681	NOE1_g11428.t1	NOE1
scaffold_29	2225784	2273987	NOTC1_g11420.t1	NOTC1
scaffold_29	2236525	2247754	MSTRG.11428.2	NOTCH1
scaffold_29	21823057	21823434	LOC000000014_g11712.t1	LOC000000014_g11712.t1
scaffold_29	287545	287762	MSTRG.11364.1	MSTRG.11364.1
scaffold_29	296824	297472	MSTRG.11365.1	MSTRG.11365.1
scaffold_29	493042	494994	MSTRG.11371.1	MSTRG.11371.1
scaffold_29	493096	494406	MSTRG.11371.2	MSTRG.11371.2
scaffold_29	744783	745015	MSTRG.11375.1	MSTRG.11375.1
scaffold_29	752995	753201	MSTRG.11376.1	MSTRG.11376.1
scaffold_29	636211	689192	MSTRG.11378.3	MSTRG.11378.3
scaffold_29	626647	626908	MSTRG.11379.1	MSTRG.11379.1
scaffold_29	1003789	1004006	MSTRG.11395.1	MSTRG.11395.1
scaffold_29	1094533	1094737	MSTRG.11397.1	MSTRG.11397.1
scaffold_29	1205657	1208984	MSTRG.11407.1	MSTRG.11407.1
scaffold_29	1205811	1208984	MSTRG.11407.2	MSTRG.11407.2
scaffold_29	1529429	1542922	MSTRG.11408.1	MSTRG.11408.1
scaffold_29	1592690	1592900	MSTRG.11412.1	MSTRG.11412.1
scaffold_29	1680980	1681322	MSTRG.11414.1	MSTRG.11414.1
scaffold_29	1875170	1877093	MSTRG.11415.2	MSTRG.11415.2
scaffold_29	1949074	1950422	MSTRG.11416.1	MSTRG.11416.1
scaffold_29	2141127	2148283	MSTRG.11422.1	MSTRG.11422.1
scaffold_29	2141324	2148283	MSTRG.11422.2	MSTRG.11422.2
scaffold_29	2177067	2212574	MSTRG.11424.1	MSTRG.11424.1
scaffold_29	2393053	2409095	MSTRG.11429.1	MSTRG.11429.1
scaffold_29	2442089	2448410	MSTRG.11431.1	MSTRG.11431.1
scaffold_29	2442089	2448410	MSTRG.11431.2	MSTRG.11431.2
scaffold_29	2442089	2448410	MSTRG.11431.3	MSTRG.11431.3
scaffold_29	2442718	2448410	MSTRG.11431.5	MSTRG.11431.5
scaffold_29	2442740	2448410	MSTRG.11431.6	MSTRG.11431.6
scaffold_29	2442740	2448410	MSTRG.11431.7	MSTRG.11431.7
scaffold_29	2442743	2448410	MSTRG.11431.8	MSTRG.11431.8
scaffold_29	2492271	2492476	MSTRG.11434.1	MSTRG.11434.1

scaffold_29	3608962	3609186	MSTRG.11440.1	MSTRG.11440.1
scaffold_29	3915474	3915712	MSTRG.11444.1	MSTRG.11444.1
scaffold_29	4217432	4217638	MSTRG.11450.1	MSTRG.11450.1
scaffold_29	4220532	4220821	MSTRG.11451.1	MSTRG.11451.1
scaffold_29	4198459	4202825	MSTRG.11453.2	MSTRG.11453.2
scaffold_29	4199358	4202825	MSTRG.11453.3	MSTRG.11453.3
scaffold_29	4206075	4212934	MSTRG.11455.1	MSTRG.11455.1
scaffold_29	4206122	4212934	MSTRG.11455.2	MSTRG.11455.2
scaffold_29	4436862	4461930	MSTRG.11457.3	MSTRG.11457.3
scaffold_29	4473584	4491997	MSTRG.11458.1	MSTRG.11458.1
scaffold_29	4473584	4491997	MSTRG.11458.2	MSTRG.11458.2
scaffold_29	4690844	4691060	MSTRG.11463.1	MSTRG.11463.1
scaffold_29	4747827	4772743	MSTRG.11464.1	MSTRG.11464.1
scaffold_29	5003323	5035613	MSTRG.11466.1	MSTRG.11466.1
scaffold_29	5003513	5035613	MSTRG.11466.2	MSTRG.11466.2
scaffold_29	5051093	5132560	MSTRG.11467.1	MSTRG.11467.1
scaffold_29	5051093	5132560	MSTRG.11467.2	MSTRG.11467.2
scaffold_29	5051093	5132560	MSTRG.11467.3	MSTRG.11467.3
scaffold_29	5051094	5132560	MSTRG.11467.4	MSTRG.11467.4
scaffold_29	5721064	5721290	MSTRG.11469.1	MSTRG.11469.1
scaffold_29	5726163	5726391	MSTRG.11470.1	MSTRG.11470.1
scaffold_29	5726943	5727173	MSTRG.11471.1	MSTRG.11471.1
scaffold_29	5729119	5729651	MSTRG.11473.1	MSTRG.11473.1
scaffold_29	5733467	5755208	MSTRG.11474.1	MSTRG.11474.1
scaffold_29	5730170	5730694	MSTRG.11475.1	MSTRG.11475.1
scaffold_29	5959993	5978340	MSTRG.11480.1	MSTRG.11480.1
scaffold_29	5960104	5978340	MSTRG.11480.2	MSTRG.11480.2
scaffold_29	6250693	6250917	MSTRG.11485.1	MSTRG.11485.1
scaffold_29	6275115	6321681	MSTRG.11487.1	MSTRG.11487.1
scaffold_29	6275115	6420263	MSTRG.11487.2	MSTRG.11487.2
scaffold_29	6275598	6321681	MSTRG.11487.3	MSTRG.11487.3
scaffold_29	6527323	6527549	MSTRG.11489.1	MSTRG.11489.1
scaffold_29	6979211	6979428	MSTRG.11492.1	MSTRG.11492.1
scaffold_29	7176349	7176686	MSTRG.11497.1	MSTRG.11497.1
scaffold_29	7177219	7177473	MSTRG.11499.1	MSTRG.11499.1
scaffold_29	7309473	7318102	MSTRG.11503.1	MSTRG.11503.1
scaffold_29	7425438	7425653	MSTRG.11506.1	MSTRG.11506.1
scaffold_29	7855670	7886081	MSTRG.11515.1	MSTRG.11515.1
scaffold_29	8137805	8172136	MSTRG.11527.1	MSTRG.11527.1
scaffold_29	8244989	8245338	MSTRG.11531.1	MSTRG.11531.1
scaffold_29	8449594	8449897	MSTRG.11543.1	MSTRG.11543.1
scaffold_29	8543383	8579460	MSTRG.11546.1	MSTRG.11546.1
scaffold_29	8894411	8894621	MSTRG.11559.1	MSTRG.11559.1
scaffold_29	8909549	8909751	MSTRG.11560.1	MSTRG.11560.1
scaffold_29	9015277	9015607	MSTRG.11567.1	MSTRG.11567.1

scaffold_29	10293820	10504240	MSTRG.11573.1	MSTRG.11573.1
scaffold_29	10535100	10773263	MSTRG.11574.3	MSTRG.11574.3
scaffold_29	10535100	10773263	MSTRG.11574.4	MSTRG.11574.4
scaffold_29	10827921	10892224	MSTRG.11576.1	MSTRG.11576.1
scaffold_29	10902958	10904983	MSTRG.11578.1	MSTRG.11578.1
scaffold_29	11596559	11596866	MSTRG.11591.1	MSTRG.11591.1
scaffold_29	11598031	11598332	MSTRG.11592.1	MSTRG.11592.1
scaffold_29	12527175	12655222	MSTRG.11595.1	MSTRG.11595.1
scaffold_29	14249784	14249989	MSTRG.11604.1	MSTRG.11604.1
scaffold_29	14685107	14685449	MSTRG.11605.1	MSTRG.11605.1
scaffold_29	16185126	16185338	MSTRG.11616.1	MSTRG.11616.1
scaffold_29	16086530	16106913	MSTRG.11618.1	MSTRG.11618.1
scaffold_29	16086530	16106913	MSTRG.11618.2	MSTRG.11618.2
scaffold_29	16856017	16856219	MSTRG.11623.1	MSTRG.11623.1
scaffold_29	18414780	18414988	MSTRG.11624.1	MSTRG.11624.1
scaffold_29	19634612	19634826	MSTRG.11626.1	MSTRG.11626.1
scaffold_29	16435301	16487819	MSTRG.11627.4	MSTRG.11627.4
scaffold_29	19648039	19648442	MSTRG.11628.1	MSTRG.11628.1
scaffold_29	19878517	19878720	MSTRG.11629.1	MSTRG.11629.1
scaffold_29	19863906	19864133	MSTRG.11630.1	MSTRG.11630.1
scaffold_29	21396364	21396672	MSTRG.11636.1	MSTRG.11636.1
scaffold_29	21360673	21386403	MSTRG.11637.1	MSTRG.11637.1
scaffold_29	21885835	21971722	MSTRG.11639.1	MSTRG.11639.1
scaffold_29	21885841	21971722	MSTRG.11639.2	MSTRG.11639.2
scaffold_29	21885910	21971722	MSTRG.11639.3	MSTRG.11639.3
scaffold_29	22446768	22451642	MSTRG.11641.3	MSTRG.11641.3
scaffold_29	22480158	22480367	MSTRG.11643.1	MSTRG.11643.1
scaffold_29	22464170	22475959	MSTRG.11644.1	MSTRG.11644.1
scaffold_29	22874314	22874541	MSTRG.11650.1	MSTRG.11650.1
scaffold_29	22616496	22674204	MSTRG.11652.1	MSTRG.11652.1
scaffold_29	23090231	23090441	MSTRG.11657.1	MSTRG.11657.1
scaffold_29	23114382	23146472	MSTRG.11658.2	MSTRG.11658.2
scaffold_29	23157384	23309680	MSTRG.11660.1	MSTRG.11660.1
scaffold_29	23316918	23317133	MSTRG.11661.1	MSTRG.11661.1
scaffold_29	23321737	23322229	MSTRG.11662.1	MSTRG.11662.1
scaffold_29	23560081	23662109	MSTRG.11666.3	MSTRG.11666.3
scaffold_29	23990032	24013217	MSTRG.11668.1	MSTRG.11668.1
scaffold_29	23990032	24013217	MSTRG.11668.2	MSTRG.11668.2
scaffold_29	23990032	24013217	MSTRG.11668.3	MSTRG.11668.3
scaffold_29	24013315	24040113	MSTRG.11669.1	MSTRG.11669.1
scaffold_29	24013360	24020420	MSTRG.11669.2	MSTRG.11669.2
scaffold_29	24040801	24068521	MSTRG.11670.1	MSTRG.11670.1
scaffold_29	24122620	24216491	MSTRG.11671.3	MSTRG.11671.3
scaffold_29	24122620	24216491	MSTRG.11671.4	MSTRG.11671.4
scaffold_29	26007169	26008147	MSTRG.11676.1	MSTRG.11676.1

scaffold_29	26010001	26010866	MSTRG.11678.1	MSTRG.11678.1
scaffold_29	26015907	26016126	MSTRG.11681.1	MSTRG.11681.1
scaffold_29	26178563	26185104	MSTRG.11685.1	MSTRG.11685.1
scaffold_29	27510487	27510719	MSTRG.11688.1	MSTRG.11688.1
scaffold_29	27483775	27483995	MSTRG.11689.1	MSTRG.11689.1
scaffold_29	27526382	27531182	MSTRG.11691.1	MSTRG.11691.1
scaffold_29	27601528	27601734	MSTRG.11692.1	MSTRG.11692.1
scaffold_29	28238568	28238772	MSTRG.11693.1	MSTRG.11693.1
scaffold_29	27899412	27899621	MSTRG.11696.1	MSTRG.11696.1
scaffold_29	29662945	29825892	MSTRG.11704.1	MSTRG.11704.1
scaffold_29	29662949	29825892	MSTRG.11704.3	MSTRG.11704.3
scaffold_29	29837923	29842936	MSTRG.11710.1	MSTRG.11710.1
scaffold_29	30619032	30648347	MSTRG.11721.3	MSTRG.11721.3
scaffold_29	31278744	31278969	MSTRG.11722.1	MSTRG.11722.1
scaffold_29	31275473	31278084	MSTRG.11723.1	MSTRG.11723.1
scaffold_29	31274682	31275043	MSTRG.11724.1	MSTRG.11724.1
scaffold_29	31273069	31273349	MSTRG.11725.1	MSTRG.11725.1
scaffold_29	32888268	32910794	MSTRG.11727.1	MSTRG.11727.1
scaffold_29	32888434	32910794	MSTRG.11727.3	MSTRG.11727.3
scaffold_29	34534532	34534821	MSTRG.11734.1	MSTRG.11734.1
scaffold_29	34293912	34330382	MSTRG.11738.1	MSTRG.11738.1
scaffold_29	33923988	34063509	MSTRG.11739.1	MSTRG.11739.1
scaffold_29	34803744	34828066	MSTRG.11745.1	MSTRG.11745.1
scaffold_29	34872742	34935829	MSTRG.11746.1	MSTRG.11746.1
scaffold_29	34872742	34908977	MSTRG.11746.2	MSTRG.11746.2
scaffold_29	35255627	35255899	MSTRG.11750.1	MSTRG.11750.1
scaffold_29	35794071	35794408	MSTRG.11755.1	MSTRG.11755.1
scaffold_29	35769185	35769420	MSTRG.11757.1	MSTRG.11757.1
scaffold_29	35928003	35928319	MSTRG.11763.1	MSTRG.11763.1
scaffold_29	35929067	35929268	MSTRG.11766.1	MSTRG.11766.1
scaffold_29	36233234	36281106	MSTRG.11772.2	MSTRG.11772.2
scaffold_29	36784898	36874661	MSTRG.11774.1	MSTRG.11774.1
scaffold_29	36784898	36874661	MSTRG.11774.2	MSTRG.11774.2
scaffold_29	37507413	37507633	MSTRG.11775.1	MSTRG.11775.1
scaffold_29	37465758	37466037	MSTRG.11777.1	MSTRG.11777.1
scaffold_29	37564099	37574349	MSTRG.11778.1	MSTRG.11778.1
scaffold_29	37564102	37574349	MSTRG.11778.2	MSTRG.11778.2
scaffold_29	37618605	37642134	MSTRG.11780.1	MSTRG.11780.1
scaffold_29	37636431	37642134	MSTRG.11780.3	MSTRG.11780.3
scaffold_29	37708456	37708659	MSTRG.11781.1	MSTRG.11781.1
scaffold_29	37868698	37887699	MSTRG.11784.1	MSTRG.11784.1
scaffold_29	37868698	37886993	MSTRG.11784.2	MSTRG.11784.2
scaffold_29	37996945	37997157	MSTRG.11787.1	MSTRG.11787.1
scaffold_29	37968725	37987588	MSTRG.11788.1	MSTRG.11788.1
scaffold_29	37968772	37987588	MSTRG.11788.2	MSTRG.11788.2

scaffold_29	37969355	37982694	MSTRG.11788.3	MSTRG.11788.3
scaffold_29	37974315	37979546	MSTRG.11788.5	MSTRG.11788.5
scaffold_29	38025826	38026027	MSTRG.11790.1	MSTRG.11790.1
scaffold_29	39357352	39390768	MSTRG.11793.2	MSTRG.11793.2
scaffold_29	39529775	39530289	MSTRG.11797.1	MSTRG.11797.1
scaffold_29	39616935	39623014	MSTRG.11799.2	MSTRG.11799.2
scaffold_29	39850457	39852557	MSTRG.11802.1	MSTRG.11802.1
scaffold_29	39861698	39886980	MSTRG.11806.1	MSTRG.11806.1
scaffold_29	39985729	39993174	MSTRG.11811.1	MSTRG.11811.1
scaffold_29	39971485	39971771	MSTRG.11817.1	MSTRG.11817.1
scaffold_29	40099922	40100137	MSTRG.11819.1	MSTRG.11819.1
scaffold_29	40592211	40592412	MSTRG.11827.1	MSTRG.11827.1
scaffold_29	40565628	40565854	MSTRG.11828.1	MSTRG.11828.1
scaffold_29	40604011	40604251	MSTRG.11829.1	MSTRG.11829.1
scaffold_29	604155	614723	NOXA1_g11356.t1	NOXA1
scaffold_29	604002	614723	MSTRG.11377.1	NOXA1
scaffold_29	986608	992069	NPDC1_g11381.t1	NPDC1
scaffold_29	29565415	29576640	NPS3A_g11782.t1	NPS3A
scaffold_29	34252574	34291860	MSTRG.11737.1	NR4A3
scaffold_29	34252709	34291860	MSTRG.11737.2	NR4A3
scaffold_29	34255659	34303957	NR4A3_g11834.t1	NR4A3
scaffold_29	11464192	11489537	MSTRG.11589.1	NR5A1
scaffold_29	11392081	11450295	MSTRG.11587.3	NR6A1
scaffold_29	11392154	11450295	NR6A1_g11587.t1	NR6A1
scaffold_29	11237805	11450295	MSTRG.11587.1	NR6A1
scaffold_29	11237805	11450295	MSTRG.11587.2	NR6A1
scaffold_29	725441	725785	NRARP_g11358.t1	NRARP
scaffold_29	577526	587516	MSTRG.11373.1	NSMF
scaffold_29	577743	587516	MSTRG.11373.2	NSMF
scaffold_29	577743	587516	NSMF_g11354.t1	NSMF
scaffold_29	7310275	7312678	NTM1A_g11504.t1	NTMT1
scaffold_29	7310275	7318102	MSTRG.11503.2	NTMT1
scaffold_29	5143923	5209805	NTNG2_g11472.t1	NTNG2
scaffold_29	7787612	7803070	NU188_g11515.t1	NUP188
scaffold_29	6000020	6096527	NU214_g11482.t1	NUP214
scaffold_29	7804352	7838894	MSTRG.11516.2	NUP188
scaffold_29	7786872	7803070	MSTRG.11514.1	NUP188
scaffold_29	7804318	7838894	MSTRG.11516.1	NUP188
scaffold_29	5998488	6040142	MSTRG.11482.1	NUP214
scaffold_29	5998663	6096527	MSTRG.11482.2	NUP214
scaffold_29	5998801	6094104	MSTRG.11482.3	NUP214
scaffold_29	29931623	29932174	O13C2_g11799.t1	O13C2
scaffold_29	29859307	29859699	O13C6_g11793.t1	O13C6
scaffold_29	29689669	29690607	O13C7_g11787.t1	O13C7
scaffold_29	29722612	29723550	O13C7_g11788.t1	O13C7

scaffold_29	29836954	29837913	O13C7_g11790.t1	O13C7
scaffold_29	29858742	29859269	O13C7_g11792.t1	O13C7
scaffold_29	29869727	29870686	O13C7_g11794.t1	O13C7
scaffold_29	29882149	29882487	O13C7_g11795.t1	O13C7
scaffold_29	29898624	29899076	O13C7_g11797.t1	O13C7
scaffold_29	29739063	29740025	O13C8_g11789.t1	O13C8
scaffold_29	29929016	29929543	O13C8_g11798.t1	O13C8
scaffold_29	29625304	29626239	O13D1_g11784.t2	O13D1
scaffold_29	29674156	29674953	O13D1_g11786.t1	O13D1
scaffold_29	29885840	29886799	O13F1_g11796.t1	O13F1
scaffold_29	7455390	7455607	MSTRG.11505.1	OAS1
scaffold_29	8174271	8204903	MSTRG.11530.2	ODF2
scaffold_29	8194010	8201120	MSTRG.11530.5	ODF2
scaffold_29	8173048	8204903	MSTRG.11530.1	ODF2
scaffold_29	8177880	8204903	MSTRG.11530.4	ODF2
scaffold_29	8194384	8204903	MSTRG.11530.6	ODF2
scaffold_29	8175127	8204903	ODFP2_g11530.t1	ODFP2
scaffold_29	11207741	11224255	OLM2A_g11584.t1	OLFML2A
scaffold_29	29723575	29971083	MSTRG.11704.4	OR13D33P
scaffold_29	29851531	29852547	O13C7_g11791.t1	OR2S2
scaffold_29	6269685	6270095	OX26_g11486.t1	OX26
scaffold_29	28852644	28916026	MSTRG.11697.1	PAFAH1B1
scaffold_29	20044523	20125206	MSTRG.11634.3	PAPPA
scaffold_29	19883564	20125420	MSTRG.11634.1	PAPPA
scaffold_29	1029183	1030739	MSTRG.11396.2	PAXX
scaffold_29	1029354	1030739	PAXX_g11384.t1	PAXX
scaffold_29	1029174	1030739	MSTRG.11396.1	PAXX
scaffold_29	10295131	10504240	PBX3_g11573.t1	PBX3
scaffold_29	1640580	1698631	MSTRG.11413.3	PCNP
scaffold_29	1640770	1698631	MSTRG.11413.4	PCNP
scaffold_29	12927191	12936285	MSTRG.11603.1	PDCL
scaffold_29	12927191	12936285	MSTRG.11603.2	PDCL
scaffold_29	23490414	23662109	MSTRG.11666.1	PEX3
scaffold_29	32906229	32907829	PGAP4_g11822.t1	PGAP4
scaffold_29	8442261	8447521	PGES2_g11542.t1	PGES2
scaffold_29	14630325	14650606	PGH1_g11663.t1	PTGS1
scaffold_29	16064908	16087399	MSTRG.11617.1	PHF19
scaffold_29	16064908	16084884	MSTRG.11617.2	PHF19
scaffold_29	16064909	16084884	MSTRG.11617.3	PHF19
scaffold_29	40623180	40632840	MSTRG.11838.1	PHF24
scaffold_29	12929036	12935843	PHLP_g11601.t1	PHLP
scaffold_29	7843586	7852848	PHYD1_g11517.t1	PHYHD1
scaffold_29	7843223	7849293	MSTRG.11518.2	PHYHD1
scaffold_29	3312526	3312813	PI3R5_g11432.t1	PI3R5
scaffold_29	928960	933037	MSTRG.11390.1	PICK1

scaffold_29	32437974	32553802	PIEZ1_g11816.t1	PIEZ1
scaffold_29	40529776	40539716	MSTRG.11826.1	PIGO
scaffold_29	40529776	40539716	MSTRG.11826.2	PIGO
scaffold_29	40530582	40536596	MSTRG.11826.3	PIGO
scaffold_29	40530582	40539716	PIGO_g11930.t1	PIGO
scaffold_29	8004876	8016434	MSTRG.11526.1	PKN3
scaffold_29	8005114	8016434	PKN3_g11525.t1	PKN3
scaffold_29	2393658	2409796	PLCB_g11422.t1	AGPAT2
scaffold_29	495052	576568	PLPL7_g11353.t1	PNPLA7
scaffold_29	5935641	5948882	PLPP7_g11480.t1	PLPP7
scaffold_29	495101	576568	MSTRG.11372.2	PNPLA7
scaffold_29	495219	576568	MSTRG.11372.3	PNPLA7
scaffold_29	495261	576568	MSTRG.11372.4	PNPLA7
scaffold_29	5770760	5788135	MSTRG.11477.1	POMT1
scaffold_29	5773979	5781306	MSTRG.11477.3	POMT1
scaffold_29	5771395	5786939	POMT1_g11478.t1	POMT1
scaffold_29	8213066	8213503	PPIA_g11531.t1	PPIA
scaffold_29	2482378	2484109	MSTRG.11433.3	PPP1R26
scaffold_29	10932746	10964485	MSTRG.11575.1	PPP6C
scaffold_29	6441797	6455669	PRD12_g11489.t2	PRD12
scaffold_29	22555846	22570065	PRP4_g11727.t1	PRP4
scaffold_29	22555408	22569621	MSTRG.11648.1	PRPF4
scaffold_29	5789498	5807313	MSTRG.11479.1	PRRC2B
scaffold_29	5809466	5883505	MSTRG.11479.3	PRRC2B
scaffold_29	7242732	7286631	PRRX2_g11501.t1	PRRX2
scaffold_29	16107011	16127185	MSTRG.11619.1	PSMD5
scaffold_29	23410789	23516862	MSTRG.11665.2	PTBP3
scaffold_29	23410834	23510442	MSTRG.11665.3	PTBP3
scaffold_29	23502803	23510442	MSTRG.11665.4	PTBP3
scaffold_29	23400590	23503853	PTBP3_g11741.t1	PTBP3
scaffold_29	1875166	1879467	MSTRG.11415.1	PTGIS
scaffold_29	7667089	7667482	MSTRG.11507.1	PTPA
scaffold_29	25690634	25797927	MSTRG.11682.2	PTPN3
scaffold_29	3572934	3573236	QPCT_g11436.t1	QPCT
scaffold_29	1951335	1986158	QSOX2_g11411.t1	QSOX2
scaffold_29	15666782	15741605	RAB14_g11677.t1	RAB14
scaffold_29	10910928	10920574	RABEK_g11577.t1	RABEK
scaffold_29	10911083	10926238	MSTRG.11579.2	RABEPK
scaffold_29	10913270	10923385	MSTRG.11579.3	RABEPK
scaffold_29	12749734	12783278	MSTRG.11599.4	RABGAP1
scaffold_29	1168830	1195200	RABL6_g11393.t1	RABL6
scaffold_29	4436862	4461930	MSTRG.11457.2	RALGDS
scaffold_29	4447753	4449672	MSTRG.11457.4	RALGDS
scaffold_29	9180865	9471843	MSTRG.11570.1	RALGPS1
scaffold_29	9183762	9450887	MSTRG.11570.2	RALGPS1

scaffold_29	12676274	12813409	RBGP1_g11597.t1	RBGP1
scaffold_29	14743854	14765640	MSTRG.11607.1	RBM18
scaffold_29	14747171	14765640	RBM18_g11665.t1	RBM18
scaffold_29	12856650	12909398	MSTRG.11602.1	RC3H2
scaffold_29	12863650	12909398	RC3H2_g11600.t1	RC3H2
scaffold_29	27515264	27555645	RD23B_g11770.t1	RD23B
scaffold_29	39536550	39610171	RECK_g11896.t1	RECK
scaffold_29	9189189	9236549	RGPS1_g11565.t1	RGPS1
scaffold_29	9189189	9236549	RGPS1_g11565.t2	RGPS1
scaffold_29	9331818	9491622	RGPS1_g11567.t1	RGPS1
scaffold_29	22301303	22305711	MSTRG.11640.1	RGS3
scaffold_29	22354940	22424017	MSTRG.11640.3	RGS3
scaffold_29	22302973	22424017	RGS3_g11717.t1	RGS3
scaffold_29	7739716	7764066	MSTRG.11512.1	RIMS3
scaffold_29	8982525	8986219	RL12_g11561.t1	RPL12
scaffold_29	11164042	11168588	RL35_g11582.t1	RL35
scaffold_29	4202896	4205971	RL7A_g11454.t1	RPL7A
scaffold_29	494407	494994	RM41_g11352.t1	RM41
scaffold_29	801061	801903	RN208_g11366.t1	RNF208
scaffold_29	32837128	32864312	MSTRG.11726.1	RNF20
scaffold_29	39236778	39311932	MSTRG.11792.1	RNF38
scaffold_29	39236778	39311932	MSTRG.11792.2	RNF38
scaffold_29	39239106	39311932	RNF38_g11890.t1	RNF38
scaffold_29	37618674	37635382	RPA49_g11877.t1	RPA49
scaffold_29	5576630	5719093	RPGF1_g11475.t1	RPGF1
scaffold_29	11164457	11168588	MSTRG.11585.2	RPL35
scaffold_29	14691016	14743820	RRFM_g11664.t1	MRRF
scaffold_29	11921545	12157497	MSTRG.11593.1	CPLANE2
scaffold_29	11921548	12430206	MSTRG.11593.2	CPLANE2
scaffold_29	2463297	2466534	RT02_g11425.t1	MRPS2
scaffold_29	35748084	35748476	RT17_g11846.t1	MRPS17
scaffold_29	3371238	3371732	AOC3_g11433.t1	RTKN
scaffold_29	40034431	40036658	MSTRG.11821.2	RUSC2
scaffold_29	40033501	40045792	RUSC2_g11924.t1	RUSC2
scaffold_29	3278104	3305319	RXRA_g11431.t1	RXRA
scaffold_29	3274311	3305319	MSTRG.11436.1	RXRG
scaffold_29	3274315	3305319	MSTRG.11436.2	RXRG
scaffold_29	37972086	37973021	S2551_g11883.t1	SLC25A51
scaffold_29	8271418	8282952	S27A4_g11534.t1	SLC27A4
scaffold_29	8289904	8297757	S27A4_g11534.t2	SLC27A4
scaffold_29	4595449	4600145	SACA9_g11464.t1	SPACA9
scaffold_29	12571170	12571601	SAHH_g11595.t1	AHCY
scaffold_29	3850729	3918072	SARDH_g11441.t1	SARDH
scaffold_29	2178934	2208247	SC16A_g11419.t1	SC16A
scaffold_29	34819966	34828066	SC61B_g11836.t1	SC61B

scaffold_29	11102915	11103551	MSTRG.11580.1	SCAI
scaffold_29	11105050	11105271	MSTRG.11581.1	SCAI
scaffold_29	10969867	11083869	MSTRG.11582.1	SCAI
scaffold_29	10969872	11083869	MSTRG.11582.2	SCAI
scaffold_29	10969946	11101157	SCAI_g11579.t1	SCAI
scaffold_29	8457603	8466271	SCMC2_g11543.t1	SLC25A25
scaffold_29	15407432	15407761	SDC2_g11672.t1	SDC2
scaffold_29	2178934	2212574	MSTRG.11424.2	SEC16A
scaffold_29	2208305	2215615	MSTRG.11425.1	SEC16A
scaffold_29	7772385	7780534	MSTRG.11513.2	SH3GLB2
scaffold_29	38000200	38131130	SHB_g11884.t1	SHB
scaffold_29	7767635	7786259	SHLB2_g11514.t1	SHLB2
scaffold_29	8599643	8607562	SIA7D_g11547.t1	ST6GALNAC4
scaffold_29	8616971	8627419	SIA7F_g11548.t1	SIA7F
scaffold_29	35798721	35818342	SIAS_g11848.t1	NANS
scaffold_29	10565016	10772648	SIN1_g11574.t1	SIN1
scaffold_29	39971180	39976715	SIT1_g11919.t1	SIT1
scaffold_29	9811561	9996151	MSTRG.11572.1	SLC1A2
scaffold_29	8455774	8463540	MSTRG.11545.2	SLC25A25
scaffold_29	8455618	8458501	MSTRG.11545.1	SLC25A25
scaffold_29	8270584	8284553	MSTRG.11534.1	SLC27A4
scaffold_29	8270729	8284553	MSTRG.11534.2	SLC27A4
scaffold_29	9006121	9016694	MSTRG.11566.1	SLC2A8
scaffold_29	22580986	22616331	MSTRG.11651.1	SLC31A1
scaffold_29	22674261	22681852	MSTRG.11653.1	SLC31A2
scaffold_29	29035391	29178137	MSTRG.11699.1	SLC44A1
scaffold_29	30596091	30648347	MSTRG.11721.1	SMC2
scaffold_29	30601102	30647277	SMC2_g11812.t1	SMC2
scaffold_29	2116842	2139466	MSTRG.11421.4	SNAPC4
scaffold_29	2126706	2139466	MSTRG.11421.6	SNAPC4
scaffold_29	2104839	2112744	SNPC4_g11415.t1	SNAPC4
scaffold_29	2117931	2139466	SNPC4_g11415.t2	SNAPC4
scaffold_29	22983992	23093039	SNX30_g11737.t1	SNX30
scaffold_29	22987089	22987298	MSTRG.11655.1	SNX30
scaffold_29	22989721	22990020	MSTRG.11656.1	SNX30
scaffold_29	741532	741748	MSTRG.11374.1	MTCL2
scaffold_29	1511597	1516400	SOLH1_g11405.t1	SOHLH1
scaffold_29	39827874	39830230	SPAG8_g11909.t1	SPAG8
scaffold_29	39829437	39830230	MSTRG.11801.2	SPAG8
scaffold_29	39737023	39737256	SPAR_g11900.t1	SPAAR
scaffold_29	2116701	2139466	MSTRG.11421.1	SPATC1
scaffold_29	2116707	2139466	MSTRG.11421.2	SPATC1
scaffold_29	2116711	2139466	MSTRG.11421.3	SPATC1
scaffold_29	7931139	7934216	NUCG_g11521.t1	SPOUT1
scaffold_29	7924397	7931153	MSTRG.11520.2	SPOUT1

scaffold_29	8068474	8132115	MSTRG.11529.2	SPTAN1
scaffold_29	8068218	8132115	MSTRG.11529.1	SPTAN1
scaffold_29	8068559	8134119	SPTN1_g11528.t1	SPTN1
scaffold_29	16919167	16977777	SRCN1_g11690.t1	SRCIN1
scaffold_29	829628	830995	SSNA1_g11370.t1	SSNA1
scaffold_29	8598976	8607562	MSTRG.11548.1	ST6GALNC4
scaffold_29	8613917	8627419	MSTRG.11549.1	ST6GALNC6
scaffold_29	8613917	8627419	MSTRG.11549.2	ST6GALNC6
scaffold_29	8613938	8627419	MSTRG.11549.3	ST6GALNC6
scaffold_29	8614126	8627419	MSTRG.11549.4	ST6GALNC6
scaffold_29	8614151	8627419	MSTRG.11549.5	ST6GALNC6
scaffold_29	8614782	8627419	MSTRG.11549.6	ST6GALNC6
scaffold_29	11468194	11489537	STF1_g11588.t1	CSTA
scaffold_29	4152893	4170574	STKL1_g11450.t1	STKL1
scaffold_29	40523762	40526947	STML2_g11929.t1	STML2
scaffold_29	15566214	15594386	STOM_g11675.t1	STOM
scaffold_29	40523715	40526947	MSTRG.11825.1	STOML2
scaffold_29	772551	774018	STPG3_g11361.t1	STPG3
scaffold_29	12663164	12813409	MSTRG.11599.2	STRBP
scaffold_29	12663164	12827463	MSTRG.11599.1	STRBP
scaffold_29	2476701	2485091	MSTRG.11433.1	STUM
scaffold_29	34152400	34219164	MSTRG.11742.1	STX17
scaffold_29	34161084	34211836	STX17_g11833.t1	STX17
scaffold_29	8784543	8857926	STXB1_g11558.t1	STXB1
scaffold_29	8782637	8806722	MSTRG.11557.1	STXBP1
scaffold_29	8809529	8857926	MSTRG.11557.3	STXBP1
scaffold_29	4198370	4202825	SURF1_g11453.t1	SURF1
scaffold_29	4193204	4198301	SURF2_g11452.t1	SURF2
scaffold_29	4178748	4190653	SURF4_g11451.t1	SURF4
scaffold_29	4216430	4218860	MSTRG.11449.1	SURF6
scaffold_29	4216573	4224395	MSTRG.11449.2	SURF6
scaffold_29	1296986	1297504	MSTRG.11409.1	SURF6
scaffold_29	23541904	23596689	SUSD1_g11742.t1	SUSD1
scaffold_29	24813005	24954312	SVEP1_g11752.t2	SVEP1
scaffold_29	8326406	8331420	SWI5_g11536.t1	SWI5
scaffold_29	779723	781965	TBB4B_g11363.t1	TUBB2B
scaffold_29	829628	830995	MSTRG.11387.2	TBC
scaffold_29	7938160	7950540	TBC13_g11522.t1	TBC13
scaffold_29	7935279	7950540	MSTRG.11522.2	TBC1D13
scaffold_29	35697449	35697712	MSTRG.11753.1	TBC1D2
scaffold_29	35698491	35698692	MSTRG.11754.1	TBC1D2
scaffold_29	242987	243916	MSTRG.11362.1	TCTE1
scaffold_29	36284850	36341199	MSTRG.11769.1	TDRD7
scaffold_29	33686429	33751131	TEFF1_g11829.t1	TMEFF1
scaffold_29	20985487	21089173	TENA_g11698.t1	TNC

scaffold_29	40550743	40564783	TERA_g11932.t1	SINHCAF
scaffold_29	39999750	40004051	TESK1_g11921.t1	TESK1
scaffold_29	33863263	33923301	MSTRG.11733.1	TEX10
scaffold_29	33867137	33923301	MSTRG.11733.2	TEX10
scaffold_29	33867137	33923301	TEX10_g11830.t1	TEX10
scaffold_29	4755809	4772743	TF3C4_g11466.t1	TF3C4
scaffold_29	4475134	4491997	TF3C5_g11461.t1	GTF3C5
scaffold_29	34880439	34912398	MSTRG.11746.3	TGFBR1
scaffold_29	34881294	34935346	MSTRG.11746.4	TGFBR1
scaffold_29	34881294	34912398	MSTRG.11746.5	TGFBR1
scaffold_29	34881699	34907213	MSTRG.11746.6	TGFBR1
scaffold_29	34881701	34907492	MSTRG.11746.7	TGFBR1
scaffold_29	25065610	25078647	THIO_g11754.t1	THIO
scaffold_29	16043338	16043569	MSTRG.11613.1	TIRAP
scaffold_29	39920693	39936516	TLN1_g11914.t1	TLN1
scaffold_29	39904229	39936516	MSTRG.11810.1	TLN1
scaffold_29	39904229	39936516	MSTRG.11810.2	TLN1
scaffold_29	18739965	18749937	TLR4_g11691.t2	TLR4
scaffold_29	7188312	7189499	MSTRG.11501.1	TLR7
scaffold_29	7157735	7164658	TLS1_g11497.t1	TLS1
scaffold_29	37875404	37886993	TM10B_g11880.t1	TRMT10B
scaffold_29	1207443	1208984	TM141_g11395.t1	TMEM141
scaffold_29	814691	815101	TM203_g11368.t1	TMEM203
scaffold_29	26021895	26114915	TM245_g11760.t1	TM245
scaffold_29	1877094	1878964	TM250_g11409.t1	TM250
scaffold_29	21363920	21384592	TM268_g11704.t1	TM268
scaffold_29	28754981	28808768	TM38B_g11775.t1	TM38B
scaffold_29	31042185	31042855	MSTRG.11703.1	TMEM167A
scaffold_29	8581002	8584532	MSTRG.11547.1	TMEM200A
scaffold_29	845587	846563	ANC2_g11371.t2	TMEM210
scaffold_29	2100800	2104494	MSTRG.11420.1	TMEM211
scaffold_29	2100802	2102287	MSTRG.11420.2	TMEM211
scaffold_29	26049336	26114915	MSTRG.11683.2	TMEM245
scaffold_29	39786472	39812057	TMM8B_g11905.t1	TMEM88
scaffold_29	36197059	36259714	TMOD1_g11857.t1	TMOD1
scaffold_29	20958373	20985384	MOR2B_g11697.t1	TNC
scaffold_29	37709706	37716097	MSTRG.11782.1	TOMM5
scaffold_29	7166029	7175100	MSTRG.11498.3	TOR1A
scaffold_29	7165958	7175100	TOR1A_g11498.t1	TOR1A
scaffold_29	7165820	7175100	TOR1A_g11498.t2	TOR1A
scaffold_29	7180324	7184412	TOR1B_g11499.t1	TOR1B
scaffold_29	8747052	8751078	MSTRG.11554.1	TOR2A
scaffold_29	8747064	8751078	MSTRG.11554.2	TOR2A
scaffold_29	8747064	8750301	MSTRG.11554.3	TOR2A
scaffold_29	8747088	8751078	TOR2A_g11554.t1	TOR2A

scaffold_29	754461	755708	TOR4A_g11359.t1	TOR4A
scaffold_29	39942516	39949967	TPM2_g11915.t1	TPM2
scaffold_29	483827	484375	TPM3_g11350.t1	TPM3
scaffold_29	818812	827406	TPRN_g11369.t1	TPRN
scaffold_29	16014825	16036569	MSTRG.11614.2	TRAF1
scaffold_29	16014825	16036569	MSTRG.11614.1	TRAF1
scaffold_29	16017937	16036569	TRAF1_g11681.t1	TRAF1
scaffold_29	1103495	1129813	MSTRG.11400.1	TRAF2
scaffold_29	1105268	1121291	TRAF2_g11389.t1	TRAF2
scaffold_29	35768447	35792363	TRI14_g11847.t1	TRIM14
scaffold_29	19651640	19653678	TRI32_g11694.t1	TRI32
scaffold_29	35793367	35793652	MSTRG.11758.1	TRIM14
scaffold_29	19649627	19664176	MSTRG.11631.1	TRIM32
scaffold_29	19649627	19664176	MSTRG.11631.2	TRIM32
scaffold_29	19651377	19664131	MSTRG.11631.3	TRIM32
scaffold_29	35906630	35920862	MSTRG.11764.1	TRMO
scaffold_29	35906630	35920862	TRMO_g11852.t1	TRMO
scaffold_29	8298170	8306482	MSTRG.11536.1	TRUB2
scaffold_29	8298192	8306482	TRUB2_g11535.t1	TRUB2
scaffold_29	4579152	4581717	MSTRG.11461.4	TSC1
scaffold_29	4560386	4590292	TSC1_g11463.t1	TSC1
scaffold_29	4560350	4590292	TSC1_g11463.t2	TSC1
scaffold_29	4543704	4594376	MSTRG.11461.1	TSC1
scaffold_29	36171246	36197036	MSTRG.11771.1	TSTD2
scaffold_29	36171246	36186989	MSTRG.11771.2	TSTD2
scaffold_29	36178611	36195781	TSTD2_g11856.t1	TSTD2
scaffold_29	5007834	5033098	TTF1_g11470.t1	TTF1
scaffold_29	14892683	14951708	TTL11_g11669.t1	TTL11
scaffold_29	14892419	14951318	TTL11_g11669.t3	TTL11
scaffold_29	14986816	15128448	TTL11_g11670.t1	TTL11
scaffold_29	952166	957191	UAP1L_g11378.t1	UAP1L
scaffold_29	7126125	7141390	UBP20_g11496.t1	UBP20
scaffold_29	5764509	5769464	UCK1_g11477.t1	UCK1
scaffold_29	23763562	23764611	MSTRG.11663.1	UGCG
scaffold_29	40353337	40493770	UN13B_g11927.t1	UNC13B
scaffold_29	40244688	40493770	MSTRG.11824.3	UNC13B
scaffold_29	40244688	40493770	MSTRG.11824.4	UNC13B
scaffold_29	40246783	40445072	MSTRG.11824.6	UNC13B
scaffold_29	40246783	40445072	MSTRG.11824.7	UNC13B
scaffold_29	40243284	40493770	MSTRG.11824.1	UNC13B
scaffold_29	40244552	40493770	MSTRG.11824.2	UNC13B
scaffold_29	8247260	8263402	URM1_g11533.t1	URM1
scaffold_29	7112090	7119977	MSTRG.11494.1	USP20
scaffold_29	7126125	7157486	MSTRG.11495.1	USP20
scaffold_29	7126125	7157486	MSTRG.11495.2	USP20

scaffold_29	231787	232098	VAMP3_g11346.t1	VAMP3
scaffold_29	233104	233806	MSTRG.11360.1	VAMP3
scaffold_29	21397579	21404236	VATG1_g11706.t1	ATP6V1G1
scaffold_29	22485312	22490729	MSTRG.11645.2	VMAC
scaffold_29	22523548	22533453	WDR31_g11724.t1	WDR31
scaffold_29	3515517	3532656	WDR5_g11435.t1	WDR5
scaffold_29	3513575	3536183	MSTRG.11437.1	WDR5
scaffold_29	36100367	36126620	XPA_g11854.t1	XPA
scaffold_29	36100367	36126620	MSTRG.11768.1	XPA
scaffold_29	36100367	36127850	MSTRG.11768.2	XPA
scaffold_29	9491623	9493206	ZBT34_g11568.t1	ZBTB34
scaffold_29	9534433	9535859	ZBT43_g11569.t1	ZBT43
scaffold_29	9486792	9512451	MSTRG.11570.6	ZBTB34
scaffold_29	9530283	9550914	MSTRG.11569.1	ZBTB43
scaffold_29	37577882	37579919	ZBTB5_g11876.t1	ZBTB5
scaffold_29	12849896	12855122	MSTRG.11598.1	ZBTB6
scaffold_29	12851082	12854652	ZBTB6_g11599.t1	ZBTB6
scaffold_29	37448058	37503906	ITA9_g11873.t1	ZCCHC7
scaffold_29	37257781	37503906	MSTRG.11776.1	ZCCHC7
scaffold_29	37257890	37503906	MSTRG.11776.2	ZCCHC7
scaffold_29	37257890	37503906	MSTRG.11776.3	ZCCHC7
scaffold_29	37262799	37266184	ZCHC7_g11872.t1	ZCCHC7
scaffold_29	8001731	8004671	ZDH12_g11524.t1	ZDHHC12
scaffold_29	8001177	8004671	MSTRG.11525.1	ZDHHC12
scaffold_29	8001719	8004671	MSTRG.11525.2	ZDHHC12
scaffold_29	8001731	8004671	MSTRG.11525.3	ZDHHC12
scaffold_29	7968830	7997907	MSTRG.11523.2	ZER1
scaffold_29	7968839	7997907	MSTRG.11523.3	ZER1
scaffold_29	7968579	7996693	ZER1_g11523.t1	ZER1
scaffold_29	22570207	22573040	ZFHX4_g11728.t1	ZFHX4
scaffold_29	458429	468123	DPH7_g11349.t1	ZMYND19
scaffold_29	458408	468123	MSTRG.11367.1	ZMYND19
scaffold_29	33666389	33681909	ZN276_g11828.t1	ZNF276
scaffold_29	22855824	22877363	ZN436_g11734.t1	ZNF436
scaffold_29	27766214	27846837	ZN462_g11772.t1	ZNF462
scaffold_29	24087537	24097405	ZN483_g11748.t1	ZNF483
scaffold_29	21892173	21965102	ZN618_g11716.t1	ZNF618
scaffold_29	32972097	32985741	MSTRG.11728.1	ZNF189
scaffold_29	32972866	32985741	MSTRG.11728.2	ZNF189
scaffold_29	33765834	33789826	MSTRG.11732.1	ZNF385D
scaffold_29	27766034	27898843	MSTRG.11695.1	ZNF462
scaffold_29	21936351	21971722	MSTRG.11639.5	ZNF618
scaffold_29	37575327	37605417	MSTRG.11779.1	ZNF629
scaffold_29	8995899	8996355	MSTRG.11562.2	ZNF79
scaffold_29	8988237	9001966	ZNF79_g11562.t1	ZNF79

scaffold_29	12306137	12306364	MSTRG.11594.1	ZPBP
scaffold_3	61230183	61276981	AAGAB_g12596.t1	AAGAB
scaffold_3	61225651	61276981	MSTRG.12418.1	AAGAB
scaffold_3	61230183	61276981	MSTRG.12418.2	AAGAB
scaffold_3	1315414	1342359	AB12B_g11952.t1	ABHD12B
scaffold_3	97431646	97432579	MSTRG.12716.1	ABHD17C
scaffold_3	92495535	92567320	ABHD2_g12806.t1	ABHD2
scaffold_3	92468294	92570356	MSTRG.12643.1	ABHD2
scaffold_3	25175432	25186375	ABHD4_g12126.t1	ABHD4
scaffold_3	70806376	70863104	ACBG1_g12702.t1	ACSBG1
scaffold_3	70806325	70863104	ACBG1_g12702.t2	ACSBG1
scaffold_3	70437724	70454981	ACHA3_g12695.t1	CHRNA3
scaffold_3	70417239	70434156	ACHB4_g12694.t1	CHRNB4
scaffold_3	24795236	24804169	MSTRG.12026.10	ACIN1
scaffold_3	24773653	24805938	MSTRG.12026.2	ACIN1
scaffold_3	24773653	24805938	MSTRG.12026.3	ACIN1
scaffold_3	24773653	24805938	MSTRG.12026.4	ACIN1
scaffold_3	24773655	24805938	MSTRG.12026.5	ACIN1
scaffold_3	24773655	24805938	MSTRG.12026.6	ACIN1
scaffold_3	24773657	24805938	MSTRG.12026.7	ACIN1
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scaffold_3	24794922	24804169	MSTRG.12026.9	ACIN1
scaffold_3	24773496	24805938	ACINU_g12109.t1	ACIN1
scaffold_3	31793054	31794652	ACM5_g12307.t1	CHRM5
scaffold_3	70805891	70863104	MSTRG.12507.1	ACSBG1
scaffold_3	53740343	53858560	ADA10_g12518.t1	ADAM10
scaffold_3	40763105	40764700	MSTRG.12191.4	ADAL
scaffold_3	65997438	66027300	ADPGK_g12633.t1	ADPGK
scaffold_3	65996330	66027300	MSTRG.12451.1	ADPGK
scaffold_3	65996365	66027300	MSTRG.12451.2	ADPGK
scaffold_3	92121273	92126339	AEN_g12801.t1	AEN
scaffold_3	92116623	92126910	MSTRG.12635.1	AEN
scaffold_3	24864300	24874274	AJUBA_g12114.t1	AJUBA
scaffold_3	24863733	24874274	MSTRG.12029.1	AJUBA
scaffold_3	89168965	89515225	MSTRG.12634.3	AKAP13
scaffold_3	89438674	89457436	MSTRG.12634.4	AKAP13
scaffold_3	16278261	16566679	AKAP6_g12031.t1	AKAP6
scaffold_3	89168573	89512872	AKP13_g12794.t1	AKAP13
scaffold_3	53179817	53272917	AL1A2_g12513.t1	ALDH1A2
scaffold_3	94317861	94369260	ALPK3_g12848.t1	ALPK3
scaffold_3	94378757	94433049	ALPK3_g12848.t2	ALPK3
scaffold_3	94378757	94436262	MSTRG.12683.1	ALPK3
scaffold_3	94379368	94436262	MSTRG.12683.3	ALPK3
scaffold_3	94382318	94433049	MSTRG.12683.4	ALPK3
scaffold_3	94384307	94436262	MSTRG.12683.5	ALPK3

scaffold_3	94384311	94436262	MSTRG.12683.6	ALPK3
scaffold_3	93107051	93123321	AMPN_g12818.t1	ANPEP
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scaffold_3	75587809	75590451	AN36C_g12732.t1	ANKRD36C
scaffold_3	38586877	38593605	ANCHR_g12356.t1	ZFYVE19
scaffold_3	28508088	28508528	ANGI_g12178.t1	ANG
scaffold_3	11663317	11668216	MSTRG.11922.2	ANKH
scaffold_3	48206234	48206443	MSTRG.12270.1	ANKRD22
scaffold_3	24906794	24913837	ANM5_g12116.t1	PRMT5
scaffold_3	62601389	62601858	MSTRG.12434.1	ANP32A
scaffold_3	62636863	62640071	MSTRG.12436.1	ANP32A
scaffold_3	55201417	55267576	ANXA2_g12531.t1	ANXA2
scaffold_3	24397076	24405666	AP1G2_g12093.t1	AP1G2
scaffold_3	24397230	24405666	MSTRG.12013.2	AP1G2
scaffold_3	24397256	24405666	MSTRG.12013.3	AP1G2
scaffold_3	94826794	94859902	AP3B2_g12853.t1	AP3B2
scaffold_3	93146911	93200498	AP3S2_g12819.t2	AP3S2
scaffold_3	47052106	47106191	AP4E1_g12468.t1	AP4E1
scaffold_3	47052106	47106277	AP4E1_g12468.t2	AP4E1
scaffold_3	17573181	17593789	AP4S1_g12039.t1	AP4S1
scaffold_3	78563818	78585269	APBA2_g12749.t2	APBA2
scaffold_3	28826409	28828339	APEX1_g12188.t1	APEX1
scaffold_3	28826099	28829285	MSTRG.12069.1	APEX1
scaffold_3	28826174	28829285	MSTRG.12069.2	APEX1
scaffold_3	28826189	28829285	MSTRG.12069.3	APEX1
scaffold_3	57833481	57863679	APH1B_g12546.t1	APH1B
scaffold_3	33346694	33446257	AQR_g12319.t1	AQR
scaffold_3	33454736	33456873	AQR_g12319.t2	AQR
scaffold_3	2096472	2096999	ARF6_g11962.t1	ARF6
scaffold_3	28227231	28245112	ARH40_g12164.t1	ARHGEF40
scaffold_3	16809922	16887286	MSTRG.11966.5	ARHGAP5
scaffold_3	65810612	65912768	ARI1_g12631.t1	ARIH1
scaffold_3	67477154	67523497	ARI3B_g12653.t1	ARID3B
scaffold_3	67474457	67525492	MSTRG.12463.1	ARID3B
scaffold_3	65810283	65920011	MSTRG.12449.1	ARIH1
scaffold_3	65810442	65912768	MSTRG.12449.2	ARIH1
scaffold_3	65899128	65920011	MSTRG.12449.4	ARIH1
scaffold_3	97589451	97768608	ARNT2_g12878.t1	ARNT2
scaffold_3	97585167	97585437	MSTRG.12710.1	ARNT2
scaffold_3	93208622	93216862	ARPIN_g12820.t1	ARPIN
scaffold_3	93207960	93208305	MSTRG.12653.1	ARPIN
scaffold_3	82898701	82908737	ARRD4_g12776.t1	ARRDC4
scaffold_3	80567024	80620041	MSTRG.12607.1	ASB7
scaffold_3	75053948	75210821	AT10A_g12729.t1	ATP10A
scaffold_3	1514040	1579824	ATLA1_g11955.t1	ATL1

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scaffold_3	1772742	1782702	MSTRG.11858.1	DMAC2L
scaffold_3	80827415	81091361	ATS17_g12766.t1	ADAMTS17
scaffold_3	71037605	71083788	ATS7_g12707.t1	ADAMTS7
scaffold_3	31808146	31973116	AVEN_g12308.t1	AVEN
scaffold_3	96195647	96215044	MSTRG.12709.10	B3GNT5
scaffold_3	619733	694685	MSTRG.11845.1	BAAT
scaffold_3	38294952	38304002	BAHD1_g12347.t1	BAHD1
scaffold_3	38279817	38304002	MSTRG.12144.1	BAHD1
scaffold_3	38279831	38304002	MSTRG.12144.2	BAHD1
scaffold_3	14492316	14577013	BAZ1A_g12022.t1	BAZ1A
scaffold_3	65927656	65988732	BBS4_g12632.t1	BBS4
scaffold_3	24620387	24622785	MSTRG.12019.1	BCL2L2
scaffold_3	24616089	24616488	MSTRG.12022.1	BCL2L2
scaffold_3	15398353	15398578	MSTRG.11958.1	BEND3
scaffold_3	42420901	42441309	BL1S6_g12437.t1	BLOC1S6
scaffold_3	93746360	93846576	BLM_g12838.t1	BLM
scaffold_3	93746192	93846576	MSTRG.12675.1	BLM
scaffold_3	37973508	37987595	BMF_g12338.t1	BMF
scaffold_3	37972998	37973277	MSTRG.12134.1	BMF
scaffold_3	54586251	54612743	MSTRG.12325.3	BNIP2
scaffold_3	13653301	13679330	BRM1L_g12012.t1	BRMS1L
scaffold_3	95129743	95175432	BTBD1_g12861.t1	BTBD1
scaffold_3	38123036	38134359	BUB1B_g12339.t2	BUB1B
scaffold_3	492294	492509	MSTRG.11842.1	HOATZ
scaffold_3	24770633	24773279	MSTRG.12025.1	IGBP1P1
scaffold_3	68031147	68046486	MSTRG.12474.1	C15ORF39
scaffold_3	68031147	68046486	MSTRG.12474.2	C15ORF39
scaffold_3	34880786	35081896	MSTRG.12113.1	CDIN1
scaffold_3	59435163	59436029	MSTRG.12390.1	C1ORF131
scaffold_3	56786049	56787149	C2C4A_g12538.t1	C2CD4A
scaffold_3	56872002	56873093	C2C4B_g12539.t1	C2CD4B
scaffold_3	14753170	14753480	MSTRG.11946.1	C6ORF52
scaffold_3	75162938	75163169	MSTRG.12555.1	CACNG5
scaffold_3	57882804	57929423	CAH12_g12547.t1	CA12
scaffold_3	39923378	39967781	CAN3_g12385.t1	CAPN3
scaffold_3	41497207	41608015	MSTRG.12213.1	GOLM2
scaffold_3	71182360	71201899	CATH_g12709.t1	CTSH
scaffold_3	41005336	41013608	MSTRG.12205.2	CATSPER2
scaffold_3	41014016	41017632	MSTRG.12205.3	CATSPER2
scaffold_3	98042199	98042894	CC150_g12886.t1	CCDC150
scaffold_3	38378480	38385022	CCD32_g12349.t1	CCDC32
scaffold_3	38377982	38386653	MSTRG.12146.1	CCDC32
scaffold_3	91990208	92002680	MSTRG.12641.1	CCL22
scaffold_3	91990232	92006616	MSTRG.12641.2	CCL22

scaffold_3	54130594	54148107	CCNB2_g12524.t1	CCNB2
scaffold_3	40603174	40612923	MSTRG.12196.1	CCNDBP1
scaffold_3	50915640	50937786	CCPG1_g12497.t1	CCPG1
scaffold_3	50915474	50953236	MSTRG.12280.1	CCPG1
scaffold_3	50917795	50953236	MSTRG.12280.3	CCPG1
scaffold_3	57792808	57796823	MSTRG.12365.1	CCR4
scaffold_3	66809308	66838625	CD276_g12638.t1	CD276
scaffold_3	66809390	66838625	MSTRG.12455.2	CD276
scaffold_3	66809390	66838625	MSTRG.12455.3	CD276
scaffold_3	66809409	66838625	MSTRG.12455.4	CD276
scaffold_3	71033684	71033992	MSTRG.12512.1	CD300LB
scaffold_3	40225381	40237275	CDAN1_g12391.t1	CDAN1
scaffold_3	40224026	40237275	MSTRG.12187.1	CDAN1
scaffold_3	40226520	40228531	MSTRG.12187.3	CDAN1
scaffold_3	24806952	24816617	MSTRG.12027.2	CDH24
scaffold_3	24806952	24816617	MSTRG.12027.3	CDH24
scaffold_3	24809888	24815579	MSTRG.12027.5	CDH24
scaffold_3	1725559	1770698	CDKL1_g11957.t1	CDKL1
scaffold_3	45276115	45277032	CE152_g12449.t1	CEP152
scaffold_3	45277118	45356555	CE152_g12450.t1	CEP152
scaffold_3	65679397	65705577	CELF6_g12627.t1	CELF6
scaffold_3	65679397	65705661	CELF6_g12627.t2	CELF6
scaffold_3	97256424	97308344	CEMIP_g12877.t1	CEMIP
scaffold_3	97432711	97483833	CEMIP_g12877.t2	CEMIP
scaffold_3	80683971	80757489	CERS3_g12765.t1	CERS3
scaffold_3	70197306	70198211	MSTRG.12498.1	CFAP58
scaffold_3	14609803	14620541	MSTRG.11942.1	CFL2
scaffold_3	52724418	52823891	CGNL1_g12509.t1	CGNL1
scaffold_3	52724418	52808554	MSTRG.12298.2	CGNL1
scaffold_3	52724418	52794744	MSTRG.12298.3	CGNL1
scaffold_3	38711292	38714997	CHAC1_g12362.t1	CHAC1
scaffold_3	38711158	38714997	MSTRG.12159.1	CHAC1
scaffold_3	38711197	38714997	MSTRG.12159.2	CHAC1
scaffold_3	87352797	87465629	CHD2_g12786.t1	CHD2
scaffold_3	87349472	87466532	MSTRG.12630.1	CHD2
scaffold_3	87352339	87466532	MSTRG.12630.2	CHD2
scaffold_3	27932613	27971995	CHD8_g12155.t1	CHD8
scaffold_3	27927299	27971995	MSTRG.12054.2	CHD8
scaffold_3	23900639	23904502	CHM4A_g12075.t1	CHMP4A
scaffold_3	23900607	23904502	MSTRG.12003.1	CHMP4A
scaffold_3	80032566	80101411	CHSS1_g12759.t1	CHSY1
scaffold_3	38307097	38308098	CHSTE_g12348.t1	CHST14
scaffold_3	38306968	38308098	CHSTE_g12348.t2	CHST14
scaffold_3	39044702	39058352	CIA30_g12368.t1	NDUFAF1
scaffold_3	58524893	58538149	MSTRG.12369.1	CIAO2A

scaffold_3	58524893	58539534	MSTRG.12369.2	CIAO2A
scaffold_3	93506903	93510189	CIB1_g12824.t1	CIB1
scaffold_3	93505238	93510189	MSTRG.12663.1	CIB1
scaffold_3	70899757	70920559	CIB2_g12704.t1	CIB2
scaffold_3	23812913	23815809	CIDEB_g12066.t2	CIDEB
scaffold_3	59502075	59513409	CILP1_g12575.t2	CILP
scaffold_3	28949470	28956365	CIP1_g12195.t1	CDKN1A
scaffold_3	24564839	24567012	CKLF5_g12098.t1	CMTM5
scaffold_3	11628845	11630317	CLC14_g11999.t1	CLEC14A
scaffold_3	48234856	48426778	MSTRG.12271.1	CLCN5
scaffold_3	67544954	67560582	CLK3_g12654.t1	CLK3
scaffold_3	67559412	67618728	MSTRG.12465.1	CLK3
scaffold_3	67559412	67618728	MSTRG.12465.2	CLK3
scaffold_3	62078084	62087490	CLN6_g12601.t1	CLN6
scaffold_3	59453780	59487862	CLPX_g12574.t1	CLPX
scaffold_3	59461788	59487862	MSTRG.12392.2	CLPX
scaffold_3	6136215	6140956	CN028_g11984.t1	C14ORF28
scaffold_3	6136215	6141322	CN028_g11984.t2	C14ORF28
scaffold_3	24850823	24859423	CN093_g12113.t1	C14ORF93
scaffold_3	24771325	24771754	CN119_g12108.t1	C14ORF119
scaffold_3	68034676	68040620	CO039_g12669.t1	C15ORF39
scaffold_3	95117651	95124076	CO040_g12860.t1	C15orf40
scaffold_3	61488909	61493718	CO061_g12598.t1	C15ORF61
scaffold_3	67887882	67906152	COAC_g12668.t1	PPCDC
scaffold_3	67887834	67906152	COAC_g12668.t2	PPCDC
scaffold_3	17724803	17778221	COCH_g12041.t1	COCH
scaffold_3	17721942	17733824	MSTRG.11975.1	COCH
scaffold_3	17727090	17735337	MSTRG.11975.3	COCH
scaffold_3	14609948	14611827	COF2_g12023.t1	CFL2
scaffold_3	68089284	68095071	COMD4_g12670.t1	COMMD4
scaffold_3	45640470	45671550	MSTRG.12245.1	COPS2
scaffold_3	84394212	84399956	COT2_g12777.t1	NR2F2
scaffold_3	53542202	53542660	COX5A_g12515.t1	COX5A
scaffold_3	67811447	67821160	COX5A_g12665.t1	COX5A
scaffold_3	67808989	67821160	MSTRG.12471.1	COX5A
scaffold_3	67317433	67329887	CP11A_g12648.t1	CYP11A1
scaffold_3	47284263	47316124	CP19A_g12470.t1	CYP19A1
scaffold_3	94710021	94735132	CPEB1_g12852.t1	CPEB1
scaffold_3	94708995	94709255	MSTRG.12688.1	CPEB1
scaffold_3	94709556	94815354	MSTRG.12689.1	CPEB1
scaffold_3	65533458	65551834	MSTRG.12446.1	CPPED1
scaffold_3	87335887	87336618	MSTRG.12625.1	CRHR2
scaffold_3	93899401	93995180	CRTC3_g12839.t1	CRTC3
scaffold_3	93899401	93924786	MSTRG.12676.3	CRTC3
scaffold_3	93927632	93995180	MSTRG.12676.6	CRTC3

scaffold_3	67710807	67716167	CSK_g12658.t1	CSK
scaffold_3	45642756	45671550	CSN2_g12454.t1	CSN2
scaffold_3	58599663	58795502	MSTRG.12376.2	CSNK1G1
scaffold_3	94519049	94519310	MSTRG.12685.1	CTDSP1
scaffold_3	41615962	41701153	MSTRG.12215.1	CTDSPL2
scaffold_3	41615962	41701153	MSTRG.12215.2	CTDSPL2
scaffold_3	41615970	41701153	MSTRG.12215.3	CTDSPL2
scaffold_3	41497583	41608015	CTSL2_g12419.t1	CTSV
scaffold_3	41644896	41697038	CTSL2_g12419.t2	CTSV
scaffold_3	41003968	41017632	CTSR2_g12411.t1	CATSPER2
scaffold_3	58575910	58576225	MSTRG.12370.1	CWF19L1
scaffold_3	2093810	2094348	MSTRG.11864.1	CYB5RL
scaffold_3	72355515	72461598	CYFP1_g12719.t1	CYFIP1
scaffold_3	23669569	23672587	D39U1_g12058.t1	D39U1
scaffold_3	25197424	25206299	DAD1_g12127.t1	DAD1
scaffold_3	25197375	25215800	MSTRG.12040.1	DAD1
scaffold_3	61105294	61223105	MSTRG.12421.1	DAGLA
scaffold_3	58405733	58499100	DAPK3_g12551.t1	DAPK3
scaffold_3	23971209	23977626	DCA11_g12085.t1	DCAF11
scaffold_3	23970500	23978541	MSTRG.12010.2	DCAF11
scaffold_3	23971209	23978541	MSTRG.12010.3	DCAF11
scaffold_3	23971209	23978541	MSTRG.12010.4	DCAF11
scaffold_3	59904454	60023089	MSTRG.12407.1	DENND4A
scaffold_3	59904473	59990417	MSTRG.12407.2	DENND4A
scaffold_3	92038994	92054844	DET1_g12800.t1	DET1
scaffold_3	92038559	92060725	MSTRG.12640.1	DET1
scaffold_3	23827757	23829861	DHRS1_g12068.t1	DHRS1
scaffold_3	23821626	23829861	MSTRG.11995.1	DHRS1
scaffold_3	24037407	24047724	DHRS4_g12090.t1	DHRS4
scaffold_3	41962272	42003484	DHSO_g12427.t1	SORD
scaffold_3	60475548	60507301	DI3L1_g12586.t1	DIS3L
scaffold_3	38213381	38225260	DISP2_g12344.t1	DISP2
scaffold_3	37915943	37922324	DJC17_g12337.t1	DNAJC17
scaffold_3	38690973	38699057	DLL4_g12361.t1	DLL4
scaffold_3	47499939	47643793	DMXL2_g12473.t1	DMXL2
scaffold_3	70748565	70763852	MSTRG.12506.1	DNAJA4
scaffold_3	70748565	70764501	MSTRG.12506.2	DNAJA4
scaffold_3	37914098	37920558	MSTRG.12141.1	DNAJC17
scaffold_3	38547766	38556895	MSTRG.12154.1	DNAJC17
scaffold_3	38548510	38554479	MSTRG.12154.2	DNAJC17
scaffold_3	70750327	70764840	DNJA4_g12701.t1	DNAJA4
scaffold_3	33769517	33927566	DPH6_g12321.t1	DPH6
scaffold_3	33765244	33927566	MSTRG.12111.1	DPH6
scaffold_3	2256834	2286567	DPOE2_g11966.t1	POLE2
scaffold_3	92685807	92702477	DPOG1_g12809.t1	POLG

scaffold_3	59725988	59775242	DPP8_g12579.t1	DPP8
scaffold_3	59721762	59777196	MSTRG.12395.1	DPP8
scaffold_3	59721762	59777196	MSTRG.12395.2	DPP8
scaffold_3	59721764	59777196	MSTRG.12395.3	DPP8
scaffold_3	59721919	59777196	MSTRG.12395.4	DPP8
scaffold_3	17309862	17318097	DTD2_g12036.t1	DTD2
scaffold_3	46029595	46045431	DTWD1_g12458.t1	DTWD1
scaffold_3	46025507	46045431	MSTRG.12247.1	DTWD1
scaffold_3	42057526	42087676	DUOX1_g12431.t1	DUOX1
scaffold_3	37814137	37910459	E2AK4_g12335.t1	EIF2AK4
scaffold_3	14778170	14790479	EAPP_g12026.t1	EAPP
scaffold_3	3696702	3696917	MSTRG.11886.1	EEF1AKMT2
scaffold_3	96097416	96225493	EFL1_g12868.t1	EFL1
scaffold_3	96097392	96225493	EFL1_g12868.t2	EFL1
scaffold_3	96097028	96225493	MSTRG.12709.3	EFL1
scaffold_3	96097028	96225493	MSTRG.12709.4	EFL1
scaffold_3	96097073	96149448	MSTRG.12709.5	EFL1
scaffold_3	96115741	96129923	MSTRG.12709.8	EFL1
scaffold_3	96130431	96215044	MSTRG.12709.9	EFL1
scaffold_3	24578453	24587004	MSTRG.12015.1	EFS
scaffold_3	15223596	15247508	EGLN3_g12029.t1	EGLN3
scaffold_3	39514707	39586768	EHD4_g12380.t1	EHD4
scaffold_3	45429553	45430128	EID1_g12451.t1	EID1
scaffold_3	37814040	37910459	MSTRG.12131.1	EIF2AK4
scaffold_3	37853200	37862806	MSTRG.12131.3	EIF2AK4
scaffold_3	41710987	41733113	EIF3J_g12421.t1	EIF3J
scaffold_3	41708798	41710939	MSTRG.12218.1	EIF3J
scaffold_3	41041794	41044620	ELL3_g12413.t1	ELL3
scaffold_3	31687447	31691549	EMC4_g12304.t1	EMC4
scaffold_3	31686931	31691351	MSTRG.12081.1	EMC4
scaffold_3	31769308	31781772	EMC7_g12306.t1	EMC7
scaffold_3	31783040	31783321	MSTRG.12086.1	EMC7
scaffold_3	23959222	23961358	MSTRG.12007.1	EMC9
scaffold_3	23959222	23961358	MSTRG.12007.2	EMC9
scaffold_3	40908545	40908835	ETAA1_g12406.t1	ETAA1
scaffold_3	69862008	69927471	ETFA_g12688.t1	ETFA
scaffold_3	38889530	38927334	EXD1_g12364.t1	EXD1
scaffold_3	67790909	67794459	F219B_g12664.t1	F219B
scaffold_3	54414264	54458397	FA81A_g12526.t1	FAM81A
scaffold_3	36535932	36563250	FA98B_g12329.t1	FAM98B
scaffold_3	71934392	71971408	FAAA_g12716.t1	FAAA
scaffold_3	78635118	79081758	MSTRG.12583.1	FAM189A1
scaffold_3	48466932	48565121	MSTRG.12272.7	ATOSA
scaffold_3	48471225	48565687	MSTRG.12272.8	ATOSA
scaffold_3	48466932	48565121	MSTRG.12272.6	FAM214A

scaffold_3	67788009	67794459	MSTRG.12470.2	FAM219B
scaffold_3	67787968	67794459	MSTRG.12470.1	FAM219B
scaffold_3	57648823	57649157	MSTRG.12356.1	FAM228A
scaffold_3	78231023	78268538	MSTRG.12579.1	FAN1
scaffold_3	78231771	78268538	MSTRG.12579.2	FAN1
scaffold_3	92593525	92685807	MSTRG.12644.1	FANCI
scaffold_3	5916638	5931701	MSTRG.11892.2	FANCM
scaffold_3	44967918	45194570	FBN1_g12448.t1	FBN1
scaffold_3	70224401	70252140	FBX22_g12692.t1	FBX22
scaffold_3	10786804	10824038	FBX33_g11993.t1	FBX33
scaffold_3	70223776	70313877	MSTRG.12499.3	FBXO22
scaffold_3	71540411	71540860	MSTRG.12520.1	FCGR3B
scaffold_3	62151217	62161597	FEM1B_g12602.t1	FEM1B
scaffold_3	62162553	62163205	MSTRG.12430.1	FEM1B
scaffold_3	62163475	62163877	MSTRG.12431.1	FEM1B
scaffold_3	62164185	62165745	MSTRG.12432.1	FEM1B
scaffold_3	93677814	93693481	FES_g12835.t1	FES
scaffold_3	93677608	93694166	MSTRG.12673.1	FES
scaffold_3	5933331	5948196	FKBP3_g11980.t1	FKBP3
scaffold_3	5933331	5948196	MSTRG.11889.1	FKBP3
scaffold_3	32586152	32587684	FMN1_g12311.t1	FMN1
scaffold_3	32680214	32962509	FMN1_g12312.t1	FMN1
scaffold_3	59326083	59346581	FMT_g12568.t1	MTFMT
scaffold_3	12162361	12166118	FOXA1_g12002.t1	FOXA1
scaffold_3	71539676	71539909	FOXO3_g12713.t1	FOXO3
scaffold_3	41143901	41170786	FRMD5_g12418.t1	FRMD5
scaffold_3	622632	658387	FRMD6_g11947.t1	FRMD6
scaffold_3	94903905	94926070	FSD2_g12856.t1	FSD2
scaffold_3	93696691	93703025	FURIN_g12836.t1	FURIN
scaffold_3	93695133	93707149	MSTRG.12674.1	FURIN
scaffold_3	93695138	93706464	MSTRG.12674.2	FURIN
scaffold_3	17939133	18225024	G2E3_g12043.t1	G2E3
scaffold_3	17936898	17980240	MSTRG.11986.1	G2E3
scaffold_3	59160693	59161136	G3P_g12562.t1	GAPDH
scaffold_3	46562344	46589005	GABP1_g12462.t1	GABPB1
scaffold_3	46560582	46630271	MSTRG.12248.1	GABPB1
scaffold_3	46560582	46630271	MSTRG.12248.2	GABPB1
scaffold_3	45682107	45806505	GALK2_g12455.t1	GALK2
scaffold_3	71885677	71922201	MSTRG.12527.2	GALNT7
scaffold_3	39835861	39914333	GANC_g12384.t1	GANC
scaffold_3	39834841	39894332	MSTRG.12180.1	GANC
scaffold_3	39835670	39915468	MSTRG.12180.2	GANC
scaffold_3	39835709	39915468	MSTRG.12180.3	GANC
scaffold_3	40729990	40764700	MSTRG.12191.2	GATC
scaffold_3	42258108	42271843	GATM_g12434.t1	GATM

scaffold_3	74051332	74137430	GBRA5_g12726.t1	GBRA5
scaffold_3	54545296	54546630	GCNT3_g12527.t1	GCNT3
scaffold_3	40778041	40813569	GCP4_g12402.t1	GCP4
scaffold_3	72252038	72301621	GCP5_g12718.t1	GCP5
scaffold_3	93510465	93516662	MSTRG.12661.1	GDPGP1
scaffold_3	93517760	93518917	GDPP1_g12825.t1	GDPGP1
scaffold_3	11016804	11036179	GEMI2_g11997.t1	GEMI2
scaffold_3	38548611	38554479	GFRP_g12354.t1	GCHFR
scaffold_3	62959864	63091291	MSTRG.12437.1	GLCE
scaffold_3	62959869	63091291	MSTRG.12437.2	GLCE
scaffold_3	62959869	63091291	MSTRG.12437.3	GLCE
scaffold_3	47431675	47462656	GLDN_g12472.t1	GLDN
scaffold_3	47404363	47462656	MSTRG.12258.1	GLDN
scaffold_3	23883229	23889130	GMPR2_g12072.t1	GMPR2
scaffold_3	23878641	23884725	MSTRG.11999.1	GMPR2
scaffold_3	23883162	23889626	MSTRG.12000.1	GMPR2
scaffold_3	48085736	48124113	GNB5_g12482.t1	GNB5
scaffold_3	48084144	48084712	MSTRG.12264.1	GNB5
scaffold_3	48085013	48085232	MSTRG.12266.1	GNB5
scaffold_3	37500572	37802276	GP176_g12334.t1	GPR176
scaffold_3	37693328	37694758	MSTRG.12127.2	GPR176
scaffold_3	37691680	37691969	MSTRG.12128.1	GPR176
scaffold_3	37802474	37802781	MSTRG.12130.1	GPR176
scaffold_3	17297011	17297793	GPR33_g12035.t1	GPR33
scaffold_3	52969625	52978409	GRL1A_g12511.t1	POLR2M
scaffold_3	65567869	65603226	GRM2A_g12624.t1	GRM2A
scaffold_3	54561050	54584041	MSTRG.12323.1	GTF2A2
scaffold_3	54561050	54584041	MSTRG.12323.2	GTF2A2
scaffold_3	54583827	54584228	TRIO_g12529.t1	GTF2A2
scaffold_3	68114907	68115235	MSTRG.12479.1	GTF2H2
scaffold_3	18526930	18529282	MSTRG.11978.1	GTF3C2
scaffold_3	59788449	59828719	HACD3_g12580.t1	HACD3
scaffold_3	92348617	92364350	MSTRG.12639.1	HAPLN3
scaffold_3	40075779	40087227	HAUS2_g12389.t1	HAUS2
scaffold_3	24884280	24892448	MSTRG.12031.2	HAUS4
scaffold_3	24886225	24892448	HAUS4_g12115.t1	HAUS4
scaffold_3	95250294	95325918	HDGR3_g12863.t1	HDGR3
scaffold_3	17352490	17440463	HTR5A_g12037.t1	HEATR5A
scaffold_3	17339061	17440745	MSTRG.11969.3	HEATR5A
scaffold_3	17427326	17440463	MSTRG.11969.5	HEATR5A
scaffold_3	17489437	17569883	HECD1_g12038.t1	HECD1
scaffold_3	17489341	17569883	HECD1_g12038.t2	HECD1
scaffold_3	17487662	17569883	MSTRG.11972.1	HECTD1
scaffold_3	17487662	17569883	MSTRG.11972.2	HECTD1
scaffold_3	17487662	17569883	MSTRG.11972.3	HECTD1

scaffold_3	17487756	17569883	MSTRG.11972.4	HECTD1
scaffold_3	58147706	58292279	HERC1_g12550.t1	HERC1
scaffold_3	58142474	58330335	MSTRG.12375.1	HERC1
scaffold_3	58146170	58330335	MSTRG.12375.2	HERC1
scaffold_3	58147706	58330335	MSTRG.12375.3	HERC1
scaffold_3	58147706	58330009	MSTRG.12375.4	HERC1
scaffold_3	72620737	72808955	HERC2_g12722.t1	HERC2
scaffold_3	72572499	72808955	MSTRG.12545.1	HERC2
scaffold_3	72572685	72808955	MSTRG.12545.2	HERC2
scaffold_3	65722677	65748003	HEXA_g12628.t1	HEXA
scaffold_3	70481215	70481496	HIG1A_g12697.t2	HIGD1A
scaffold_3	44934905	44940684	HILS1_g12447.t1	H1-9P
scaffold_3	68776586	68798111	HM20A_g12681.t1	HMG20A
scaffold_3	48672679	48673836	HNF6_g12489.t1	HNF6
scaffold_3	28085593	28151070	MSTRG.12057.1	HNRNPC
scaffold_3	28086334	28151070	MSTRG.12057.10	HNRNPC
scaffold_3	28086308	28151070	MSTRG.12057.3	HNRNPC
scaffold_3	28086309	28143933	MSTRG.12057.4	HNRNPC
scaffold_3	28086325	28151070	MSTRG.12057.5	HNRNPC
scaffold_3	28086325	28151070	MSTRG.12057.6	HNRNPC
scaffold_3	28086326	28143933	MSTRG.12057.7	HNRNPC
scaffold_3	28086326	28143933	MSTRG.12057.8	HNRNPC
scaffold_3	28086334	28151070	MSTRG.12057.9	HNRNPC
scaffold_3	28115677	28143933	HNRPC_g12159.t1	HNRNPC
scaffold_3	28115458	28143933	HNRPC_g12159.t2	HNRNPC
scaffold_3	94988953	95071895	HOME2_g12858.t1	HOME2
scaffold_3	94988518	94988728	MSTRG.12692.1	HOMER2
scaffold_3	24637412	24644152	HOMEZ_g12103.t1	HOMEZ
scaffold_3	24637265	24644152	MSTRG.12024.1	HOMEZ
scaffold_3	92349266	92356553	HPLN3_g12804.t1	HAPLN3
scaffold_3	52222588	52383883	HTF4_g12507.t1	TCF12
scaffold_3	70534870	70559795	HYKK_g12698.t2	HYKK
scaffold_3	70558179	70559795	MSTRG.12503.3	HYKK
scaffold_3	70534680	70562466	MSTRG.12503.1	HYKK
scaffold_3	41068232	41069435	HYPK_g12415.t1	HYPK
scaffold_3	55272283	55340026	ICE2_g12532.t1	ICE2
scaffold_3	55271567	55341116	MSTRG.12329.1	ICE2
scaffold_3	55271567	55341116	MSTRG.12329.2	ICE2
scaffold_3	70864832	70882233	IDH3A_g12703.t1	IDH3A
scaffold_3	93403477	93420040	IDHP_g12822.t1	IDHP
scaffold_3	75741146	75758224	MSTRG.12549.1	IF2
scaffold_3	59627041	59666189	IGDC3_g12577.t1	IGDC3
scaffold_3	59671586	59707437	IGDC4_g12578.t1	IGDC4
scaffold_3	59668672	59707437	MSTRG.12394.1	IGDCC4
scaffold_3	59668672	59685100	MSTRG.12394.2	IGDCC4

scaffold_3	59669085	59707437	MSTRG.12394.3	IGDCC4
scaffold_3	2333080	2334970	MSTRG.11884.1	IGF1
scaffold_3	82042387	82334940	IGF1R_g12773.t1	IGF1R
scaffold_3	14055328	14057940	IKBA_g12015.t1	IKBA
scaffold_3	96964184	97044793	IL16_g12873.t1	IL16
scaffold_3	68317821	68318375	IMP3_g12676.t1	IMP3
scaffold_3	38180741	38181049	MSTRG.12138.1	INAFM2
scaffold_3	38734997	38825157	INO80_g12363.t1	INO80
scaffold_3	38732946	38852114	MSTRG.12161.1	INO80
scaffold_3	59829760	59857584	INT14_g12581.t1	INT14
scaffold_3	43656064	43657911	MSTRG.12231.2	INTS10
scaffold_3	59828985	59861870	MSTRG.12401.1	INTS14
scaffold_3	59860946	59861870	MSTRG.12401.3	INTS14
scaffold_3	39133759	39142013	IP3KA_g12371.t1	IP3KA
scaffold_3	23919097	23927598	IPO4_g12078.t1	IPO4
scaffold_3	94020847	94110096	IQGA1_g12840.t1	IQGAP1
scaffold_3	94018646	94110096	MSTRG.12677.1	IQGAP1
scaffold_3	70568894	70614109	IREB2_g12699.t1	IREB2
scaffold_3	39796913	39834843	MSTRG.12179.1	ISCA2
scaffold_3	92131901	92143209	ISG20_g12802.t1	ISG20
scaffold_3	62173908	62289721	ITA11_g12603.t1	ITA11
scaffold_3	71157714	71158075	MSTRG.12515.1	ITGAX
scaffold_3	39442881	39449387	MSTRG.12172.3	JMJD7
scaffold_3	39439632	39446308	JMJD7_g12377.t1	JMJD7
scaffold_3	39439626	39448902	MSTRG.12172.1	JMJD7
scaffold_3	58634944	58717011	KC1G1_g12556.t1	KC1G1
scaffold_3	40974046	40979208	KCRU_g12409.t1	CKMT1A
scaffold_3	23673482	23682993	MSTRG.11992.1	KHNYN
scaffold_3	63207893	63237059	KIF23_g12611.t1	KIF23
scaffold_3	92978433	92993307	KIF7_g12812.t2	KIF7
scaffold_3	92977375	92994701	MSTRG.12649.1	KIF7
scaffold_3	92977395	92991589	MSTRG.12649.2	KIF7
scaffold_3	92978160	92994701	MSTRG.12649.3	KIF7
scaffold_3	2203012	2247012	KLDC1_g11965.t1	KLHDC1
scaffold_3	2202915	2247012	KLDC1_g11965.t2	KLHDC1
scaffold_3	2184987	2195765	KLDC2_g11964.t1	KLDC2
scaffold_3	89542593	89544362	KLH25_g12795.t1	KLHL25
scaffold_3	6107333	6123274	KLH28_g11983.t1	KLHL28
scaffold_3	2184816	2195765	MSTRG.11871.1	KLHDC2
scaffold_3	6106362	6117145	MSTRG.11897.2	KLHL28
scaffold_3	38399830	38472301	KNL1_g12351.t1	KNL1
scaffold_3	18524042	18683888	KPCD1_g12044.t1	PRKD1
scaffold_3	18738033	18813561	KPCD1_g12045.t1	PRKD1
scaffold_3	2295758	2302716	KTU_g11967.t1	DNAAF2
scaffold_3	1782869	1821128	L2HDH_g11959.t1	L2HDH

scaffold_3	57700902	57715284	MSTRG.12361.1	LACTB
scaffold_3	57700917	57715284	MSTRG.12361.2	LACTB
scaffold_3	57700940	57715284	MSTRG.12361.3	LACTB
scaffold_3	57703916	57715284	MSTRG.12361.5	LACTB
scaffold_3	40033905	40066960	MSTRG.12182.1	LAMP2
scaffold_3	40033905	40037755	MSTRG.12182.2	LAMP2
scaffold_3	6542064	6594573	LAR1B_g11987.t1	LARP1B
scaffold_3	6542064	6566858	LAR1B_g11987.t2	LARP1B
scaffold_3	64446502	64466038	LARP6_g12617.t1	LARP6
scaffold_3	40729841	40764700	MSTRG.12191.1	LCMT2
scaffold_3	60669812	60682531	LCTL_g12592.t1	LCTL
scaffold_3	47895360	47904367	LEO1_g12478.t1	LEO1
scaffold_3	38179279	38180054	MSTRG.12137.1	LIMD2
scaffold_3	53595615	53596034	LIN1_g12516.t1	LIN1
scaffold_3	80630832	80637646	LINES_g12764.t1	LINS1
scaffold_3	53672159	53717438	LIPC_g12517.t1	LIPC
scaffold_3	67721661	67733332	LMA1L_g12659.t1	LMA1L
scaffold_3	24765721	24768515	LMLN2_g12107.t1	LMLN2
scaffold_3	70005859	70055560	LOC000000017_g12690.t1	LOC000000017
scaffold_3	71650401	71684391	MSTRG.12525.1	LOC111775420
scaffold_3	64498069	64619178	LRC49_g12618.t1	LRRC49
scaffold_3	40070943	40075380	LRC57_g12388.t1	LRRC57
scaffold_3	2309467	2320638	MSTRG.11882.1	LRR1
scaffold_3	81610056	81610282	MSTRG.12610.1	LRRC28
scaffold_3	81611315	81765437	MSTRG.12613.1	LRRC28
scaffold_3	75120061	75120299	MSTRG.12551.1	LRRC30
scaffold_3	64497717	64619178	MSTRG.12443.1	LRRC49
scaffold_3	64498193	64505710	MSTRG.12443.3	LRRC49
scaffold_3	40066844	40075695	MSTRG.12183.1	LRRC57
scaffold_3	80190263	80317937	MSTRG.12598.1	LRRK1
scaffold_3	23804982	23805986	LT4R1_g12064.t1	LT4R1
scaffold_3	23809579	23810655	LT4R2_g12065.t1	LT4R2
scaffold_3	39143030	39150728	LTK_g12372.t1	LTK
scaffold_3	47732014	47744164	LYSM2_g12475.t1	LYSM2
scaffold_3	81258499	81263723	LYSM4_g12767.t1	LYSMD4
scaffold_3	81257082	81263723	MSTRG.12609.1	LYSMD4
scaffold_3	5835787	5875457	M18BP_g11978.t1	MIS18BP1
scaffold_3	1594241	1704060	M4K5_g11956.t1	M4K5
scaffold_3	93644685	93665869	MA2A2_g12834.t1	MA2A2
scaffold_3	68108315	68119642	MA2C1_g12672.t1	MAN2C1
scaffold_3	39382487	39439185	MABP1_g12376.t1	MABP1
scaffold_3	76591260	76594499	MAGL2_g12738.t1	MAGEL2
scaffold_3	76590906	76594499	MAGL2_g12738.t2	MAGEL2
scaffold_3	81536781	81544614	MAK_g12769.t1	MAK
scaffold_3	93643171	93667549	MSTRG.12672.1	MAN2A2

scaffold_3	93643174	93667549	MSTRG.12672.2	MAN2A2
scaffold_3	68120227	68120453	MSTRG.12477.1	MAN2C1
scaffold_3	68107880	68119642	MSTRG.12478.1	MAN2C1
scaffold_3	40908979	40929149	MAP1A_g12407.t1	MAP1A
scaffold_3	40908937	40929149	MAP1A_g12407.t2	MAP1A
scaffold_3	40915054	40929149	MSTRG.12202.3	MAP1A
scaffold_3	40915054	40929149	MSTRG.12202.4	MAP1A
scaffold_3	40916995	40929149	MSTRG.12202.5	MAP1A
scaffold_3	40916995	40927440	MSTRG.12202.6	MAP1A
scaffold_3	61525813	61651343	MSTRG.12423.2	MAP2K5
scaffold_3	61506347	61507226	MSTRG.12420.1	MAP2K5
scaffold_3	61524343	61759700	MSTRG.12423.1	MAP2K5
scaffold_3	61525820	61623039	MSTRG.12423.3	MAP2K5
scaffold_3	1594241	1704060	MSTRG.11857.2	MAP4K5
scaffold_3	47968939	48007496	MSTRG.12265.1	MAPK6
scaffold_3	47968964	47985792	MSTRG.12265.2	MAPK6
scaffold_3	39428688	39433298	MSTRG.12175.4	MAPKBP1
scaffold_3	14491249	14577013	MSTRG.11943.1	MASP1
scaffold_3	13291947	13310171	MSTRG.11931.2	MBIP
scaffold_3	13289517	13310171	MBIP1_g12010.t1	MBIP1
scaffold_3	78298542	78329080	MCEE_g12747.t1	MCEE
scaffold_3	23600713	23602362	MCPT8_g12055.t1	MCPT8
scaffold_3	23600713	23601851	MCPT8_g12055.t2	MCPT8
scaffold_3	86079050	86224924	MCTP2_g12782.t1	MCTP2
scaffold_3	81289679	81462392	MSTRG.12611.3	MEF2A
scaffold_3	81288992	81462392	MSTRG.12611.1	MEF2A
scaffold_3	81288992	81462392	MSTRG.12611.2	MEF2A
scaffold_3	60106538	60181065	MEG11_g12585.t1	MEG11
scaffold_3	35161287	35371903	MEIS2_g12326.t1	MEIS2
scaffold_3	35170842	35371903	MSTRG.12116.2	MEIS2
scaffold_3	97227169	97236411	MESD_g12876.t1	MESD
scaffold_3	97236478	97237557	MSTRG.12712.1	MESD
scaffold_3	93634238	93635568	MESH1_g12833.t1	MESH1
scaffold_3	93082055	93083153	MESP1_g12816.t1	MESP1
scaffold_3	93098891	93100832	MESP2_g12817.t1	MESP2
scaffold_3	28303704	28309391	MET17_g12171.t1	METTL17
scaffold_3	28303581	28309391	MSTRG.12064.1	METTL17
scaffold_3	27872589	27883328	MSTRG.12051.1	METTL3
scaffold_3	96304784	96307343	MEX3B_g12869.t1	MEX3B
scaffold_3	41071389	41084620	MFAP1_g12416.t1	MFAP1
scaffold_3	92367948	92380872	MFGM_g12805.t1	MFGE8
scaffold_3	39273891	39380856	MSTRG.12174.1	MGA
scaffold_3	39333708	39380856	MSTRG.12174.3	MGA
scaffold_3	39333723	39380856	MSTRG.12174.4	MGA
scaffold_3	5820148	5822271	MSTRG.11887.1	MGAT4A

scaffold_3	23898613	23900001	MGDP1_g12074.t1	MDP1
scaffold_3	53876978	53946059	MSTRG.12309.1	MINDY2
scaffold_3	53876997	53940028	MSTRG.12309.2	MINDY2
scaffold_3	60691684	60691888	MSTRG.12413.1	MINDY3
scaffold_3	53877058	53937740	MINY2_g12519.t1	MINDY2
scaffold_3	12235735	12418690	MIPO1_g12003.t1	MIPO1
scaffold_3	12235735	12491253	MSTRG.11923.1	MIPOL1
scaffold_3	47987850	48007496	MK06_g12480.t1	MAPK6
scaffold_3	71672117	71684391	MNAR1_g12714.t1	MINAR1
scaffold_3	51763117	51795805	MNS1_g12505.t1	MNS1
scaffold_3	51763151	51785119	MSTRG.12291.2	MNS1
scaffold_3	71129334	71153888	MO4L1_g12708.t1	MORF4L1
scaffold_3	60543480	60621803	MP2K1_g12588.t1	MAP2K1
scaffold_3	67779916	67787312	MPI_g12663.t1	MPI
scaffold_3	67779899	67785153	MSTRG.12469.1	MPI
scaffold_3	67779899	67785153	MSTRG.12469.2	MPI
scaffold_3	67779904	67787907	MSTRG.12469.3	MPI
scaffold_3	78281727	78298064	MPP10_g12746.t1	MPHOSPH10
scaffold_3	24972034	24977897	MSTRG.12037.3	MRPL52
scaffold_3	24972158	24977897	MSTRG.12037.4	MRPL52
scaffold_3	14157169	14285292	MRPP3_g12017.t1	MRPP3
scaffold_3	39001017	39012793	MS18B_g12366.t1	OIP5
scaffold_3	27873368	27883328	MTA70_g12152.t1	MTA70
scaffold_3	78182292	78230970	MSTRG.12578.1	MTMR10
scaffold_3	78182292	78229330	MSTRG.12578.2	MTMR10
scaffold_3	78182568	78229330	MTMRA_g12744.t1	MTMRA
scaffold_3	59905703	59988613	MYCPP_g12583.t1	DENND4A
scaffold_3	44724054	44747261	MSTRG.12238.1	MYEF2
scaffold_3	44724698	44747261	MSTRG.12238.2	MYEF2
scaffold_3	44724698	44747957	MSTRG.12238.3	MYEF2
scaffold_3	44724847	44747262	MSTRG.12238.4	MYEF2
scaffold_3	44724847	44743822	MSTRG.12238.5	MYEF2
scaffold_3	44725429	44756393	MYEF2_g12443.t1	MYEF2
scaffold_3	277159	305789	MYG_g11941.t1	MYG
scaffold_3	24536875	24562126	MYH7_g12097.t2	MYH7
scaffold_3	54153238	54188150	MSTRG.12316.1	MYO1E
scaffold_3	54255873	54350145	MSTRG.12316.3	MYO1E
scaffold_3	54154593	54350145	MYO1E_g12525.t1	MYO1E
scaffold_3	48241104	48426778	MYO5A_g12484.t1	MYO5A
scaffold_3	48135622	48225489	MYO5C_g12483.t1	MYO5C
scaffold_3	65257937	65533365	MSTRG.12445.1	MYO9A
scaffold_3	65294661	65533365	MSTRG.12445.3	MYO9A
scaffold_3	65313354	65533365	MSTRG.12445.4	MYO9A
scaffold_3	65266381	65490158	MYO9A_g12622.t1	MYO9A
scaffold_3	37785302	37785520	MSTRG.12129.1	MYZAP

scaffold_3	52861413	52951173	MYZAP_g12510.t1	MYZAP
scaffold_3	52861296	52919989	MSTRG.12299.1	MYZAP
scaffold_3	59881053	59898311	NCKX1_g12582.t1	NCKX1
scaffold_3	44717461	44725728	MSTRG.12236.3	NCKX5
scaffold_3	44704415	44725728	NCKX5_g12442.t1	NCKX5
scaffold_3	76559540	76561164	MSTRG.12573.1	NDN
scaffold_3	28284425	28294102	MSTRG.12063.2	NDRG2
scaffold_3	28284425	28294102	MSTRG.12063.3	NDRG2
scaffold_3	28284425	28294102	MSTRG.12063.4	NDRG2
scaffold_3	28286266	28294102	MSTRG.12063.5	NDRG2
scaffold_3	28286298	28294102	MSTRG.12063.6	NDRG2
scaffold_3	28286898	28294102	MSTRG.12063.7	NDRG2
scaffold_3	39044397	39063214	MSTRG.12166.1	NDUFAF1
scaffold_3	51291111	51403066	NEDD4_g12502.t1	NEDD4
scaffold_3	23890124	23897703	NEDD8_g12073.t1	NEDD8
scaffold_3	68101137	68107622	MSTRG.12476.1	NEIL1
scaffold_3	68101137	68107622	MSTRG.12476.2	NEIL1
scaffold_3	68102655	68107622	NEIL1_g12671.t1	NEIL1
scaffold_3	2133385	2183835	MSTRG.11872.1	NEMF
scaffold_3	2133385	2183835	MSTRG.11872.2	NEMF
scaffold_3	2133429	2183835	MSTRG.11872.4	NEMF
scaffold_3	2133429	2183835	NEMF_g11963.t1	NEMF
scaffold_3	66259573	66493774	MSTRG.12452.1	NEO1
scaffold_3	66259573	66493774	MSTRG.12452.2	NEO1
scaffold_3	66259976	66493774	NEO1_g12634.t1	NEO1
scaffold_3	24471154	24481402	MSTRG.12016.1	NGDN
scaffold_3	24474182	24481402	MSTRG.12016.2	NGDN
scaffold_3	24474656	24480964	MSTRG.12016.4	NGDN
scaffold_3	24474316	24481402	NGDN_g12096.t1	NGDN
scaffold_3	93533452	93538781	NGRN_g12827.t1	NGRN
scaffold_3	93533398	93538781	MSTRG.12665.1	NGRN
scaffold_3	324257	378046	MSTRG.11843.1	NID2
scaffold_3	324257	374297	NID2_g11943.t1	NID2
scaffold_3	1373556	1464226	MSTRG.11853.2	NIN
scaffold_3	1373577	1459028	MSTRG.11853.3	NIN
scaffold_3	1373556	1464226	MSTRG.11853.1	NIN
scaffold_3	1432784	1459963	MSTRG.11853.5	NIN
scaffold_3	72499991	72541203	NIPA1_g12721.t1	NIPA1
scaffold_3	72497922	72498161	MSTRG.12535.1	NIPA1
scaffold_3	72498417	72498676	MSTRG.12536.1	NIPA1
scaffold_3	72462538	72489753	MSTRG.12538.1	NIPA2
scaffold_3	72463213	72480916	NIPA2_g12720.t1	NIPA2
scaffold_3	31604875	31605642	MSTRG.12075.1	NOP10
scaffold_3	23816348	23821523	MSTRG.11994.1	NOP9
scaffold_3	23816348	23821433	NOP9_g12067.t1	NOP9

scaffold_3	4863041	4863382	ASPH2_g11976.t1	ASPH2_g11976.t1
scaffold_3	1773779	1776703	ATP5S_g11958.t1	ATP5S_g11958.t1
scaffold_3	94894558	94903110	BRAT1_g12855.t1	BRAT1_g12855.t1
scaffold_3	38930998	38969283	CHP1_g12365.t1	CHP1_g12365.t1
scaffold_3	58526018	58539534	CIA2A_g12552.t1	CIA2A_g12552.t1
scaffold_3	97839412	97847856	CQ051_g12880.t1	CQ051_g12880.t1
scaffold_3	40743373	40743954	DUT_g12399.t1	DUT_g12399.t1
scaffold_3	40738937	40739809	FV1_g12398.t1	FV1_g12398.t1
scaffold_3	57008293	57017012	INTU_g12540.t1	INTU_g12540.t1
scaffold_3	64429498	64430035	LOXL4_g12616.t1	LOXL4_g12616.t1
scaffold_3	37273761	37275794	LPIN1_g12332.t1	LPIN1_g12332.t1
scaffold_3	50493	50764	MSTRG.11831.1	MSTRG.11831.1
scaffold_3	40454	41116	MSTRG.11832.1	MSTRG.11832.1
scaffold_3	45942	46276	MSTRG.11833.1	MSTRG.11833.1
scaffold_3	49525	49892	MSTRG.11835.1	MSTRG.11835.1
scaffold_3	51178	51549	MSTRG.11836.1	MSTRG.11836.1
scaffold_3	391209	391539	MSTRG.11841.1	MSTRG.11841.1
scaffold_3	1150721	1150951	MSTRG.11848.1	MSTRG.11848.1
scaffold_3	1227631	1227857	MSTRG.11849.1	MSTRG.11849.1
scaffold_3	1315924	1316226	MSTRG.11851.2	MSTRG.11851.2
scaffold_3	1464456	1466842	MSTRG.11854.1	MSTRG.11854.1
scaffold_3	1771367	1771639	MSTRG.11856.1	MSTRG.11856.1
scaffold_3	1773431	1775657	MSTRG.11858.2	MSTRG.11858.2
scaffold_3	1774686	1775657	MSTRG.11858.4	MSTRG.11858.4
scaffold_3	1822407	1822715	MSTRG.11860.1	MSTRG.11860.1
scaffold_3	1916854	1919572	MSTRG.11861.2	MSTRG.11861.2
scaffold_3	1915260	1915471	MSTRG.11862.1	MSTRG.11862.1
scaffold_3	2100136	2100358	MSTRG.11866.1	MSTRG.11866.1
scaffold_3	2105840	2106314	MSTRG.11867.1	MSTRG.11867.1
scaffold_3	2112112	2112345	MSTRG.11868.1	MSTRG.11868.1
scaffold_3	2116769	2116984	MSTRG.11869.1	MSTRG.11869.1
scaffold_3	2132373	2132676	MSTRG.11870.1	MSTRG.11870.1
scaffold_3	2294150	2294373	MSTRG.11876.1	MSTRG.11876.1
scaffold_3	2293186	2293779	MSTRG.11877.1	MSTRG.11877.1
scaffold_3	2308355	2308555	MSTRG.11879.1	MSTRG.11879.1
scaffold_3	2306458	2307828	MSTRG.11881.1	MSTRG.11881.1
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scaffold_3	5823543	5871813	MSTRG.11890.2	MSTRG.11890.2
scaffold_3	5823567	5875457	MSTRG.11890.3	MSTRG.11890.3
scaffold_3	5823567	5875457	MSTRG.11890.4	MSTRG.11890.4
scaffold_3	5877706	5877947	MSTRG.11891.1	MSTRG.11891.1
scaffold_3	5964334	5966419	MSTRG.11894.1	MSTRG.11894.1

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scaffold_3	6601115	6601319	MSTRG.11898.1	MSTRG.11898.1
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scaffold_3	8125640	8186562	MSTRG.11902.1	MSTRG.11902.1
scaffold_3	8222064	8222289	MSTRG.11903.1	MSTRG.11903.1
scaffold_3	8238257	8238462	MSTRG.11904.1	MSTRG.11904.1
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scaffold_3	10786018	10786227	MSTRG.11907.1	MSTRG.11907.1
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scaffold_3	9992344	10073554	MSTRG.11908.2	MSTRG.11908.2
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scaffold_3	11025948	11036179	MSTRG.11916.2	MSTRG.11916.2
scaffold_3	11024357	11024582	MSTRG.11917.1	MSTRG.11917.1
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scaffold_3	38982186	38996298	MSTRG.12163.2	MSTRG.12163.2
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scaffold_3	48440750	48565687	MSTRG.12272.2	MSTRG.12272.2
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scaffold_3	52225631	52234670	MSTRG.12296.1	MSTRG.12296.1
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scaffold_3	53275753	53275955	MSTRG.12302.1	MSTRG.12302.1
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scaffold_3	54046993	54120986	MSTRG.12312.3	MSTRG.12312.3
scaffold_3	54047053	54120986	MSTRG.12312.4	MSTRG.12312.4
scaffold_3	54193301	54193513	MSTRG.12317.1	MSTRG.12317.1
scaffold_3	54228642	54228864	MSTRG.12318.1	MSTRG.12318.1
scaffold_3	54230965	54231177	MSTRG.12319.1	MSTRG.12319.1
scaffold_3	54237942	54238272	MSTRG.12320.1	MSTRG.12320.1
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scaffold_3	54584505	54612743	MSTRG.12325.2	MSTRG.12325.2
scaffold_3	55518726	55518937	MSTRG.12327.1	MSTRG.12327.1
scaffold_3	55765144	55765344	MSTRG.12328.1	MSTRG.12328.1
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scaffold_3	55781221	55781437	MSTRG.12335.1	MSTRG.12335.1
scaffold_3	55785657	55785876	MSTRG.12336.1	MSTRG.12336.1
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scaffold_3	55590140	55590356	MSTRG.12339.1	MSTRG.12339.1
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scaffold_3	55916140	55916349	MSTRG.12350.1	MSTRG.12350.1
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scaffold_3	55908161	55908393	MSTRG.12352.1	MSTRG.12352.1
scaffold_3	55940171	55940625	MSTRG.12353.1	MSTRG.12353.1
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scaffold_3	57833169	57863679	MSTRG.12363.1	MSTRG.12363.1
scaffold_3	57833169	57857541	MSTRG.12363.2	MSTRG.12363.2
scaffold_3	57833394	57857541	MSTRG.12363.3	MSTRG.12363.3
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scaffold_3	67742401	67750480	MSTRG.12467.2	MSTRG.12467.2
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scaffold_3	59368336	59372735	OSTB_g12569.t2	NR1H4
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scaffold_3	28916355	28924919	MSTRG.12071.1	PARP2
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scaffold_3	65639375	65666490	MSTRG.12447.2	PARP6
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scaffold_3	41018092	41039586	PDIA3_g12412.t1	PDIA3
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scaffold_3	69091391	69136282	MSTRG.12488.8	PEAK1
scaffold_3	68846446	69167815	MSTRG.12488.1	PEAK1
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scaffold_3	93017988	93024399	MSTRG.12650.1	PEX11A
scaffold_3	17339056	17440745	MSTRG.11969.1	PEX3
scaffold_3	93550191	93557888	MSTRG.12667.4	PEX3
scaffold_3	82338235	82377765	PGPIL_g12774.t1	PGPIL
scaffold_3	23845657	23851240	PGTA_g12069.t1	RABGGTA
scaffold_3	61947585	62073841	PIAS1_g12600.t1	PIAS1
scaffold_3	50890264	50915047	PIGB_g12496.t1	PIGB
scaffold_3	50888133	50890301	MSTRG.12277.1	PIGBOS1
scaffold_3	10979117	10985296	PININ_g11995.t2	PININ
scaffold_3	28822415	28826023	MSTRG.12068.1	PIP4P1
scaffold_3	13268641	13289234	PKHH1_g12009.t1	PKHH1
scaffold_3	59189378	59212005	MSTRG.12385.2	PLEKHO2
scaffold_3	93003997	93011978	PLIN1_g12813.t1	PLIN1
scaffold_3	54239418	54244534	MSTRG.12321.1	PLOD2
scaffold_3	67072503	67105682	MSTRG.12457.1	PML
scaffold_3	67072585	67114771	PML_g12643.t2	PML
scaffold_3	67072585	67114771	PML_g12643.t3	PML
scaffold_3	164340	164848	MSTRG.11839.1	PMM1
scaffold_3	10977430	10985296	MSTRG.11913.1	PNN
scaffold_3	28805384	28812013	MSTRG.12067.1	PNP
scaffold_3	28805791	28807387	PNPH_g12186.t1	PNP
scaffold_3	92685464	92703358	MSTRG.12645.1	POLG
scaffold_3	14742454	14742676	MSTRG.11947.1	POLR2D
scaffold_3	69368160	69729173	MSTRG.12494.2	POMK
scaffold_3	69368125	69806602	MSTRG.12494.1	POMK
scaffold_3	2241132	2241496	MSTRG.11874.1	POU3F2
scaffold_3	11663300	11668216	MSTRG.11922.1	POU3F3

scaffold_3	67887810	67906152	MSTRG.12472.1	PPCDC
scaffold_3	58591059	58597087	PPIB_g12555.t1	PPIB
scaffold_3	69241367	69281251	PPIP1_g12684.t1	PPIP1
scaffold_3	40930112	40960522	MSTRG.12203.1	PPIP5K1
scaffold_3	40963658	40966955	MSTRG.12203.3	PPIP5K1
scaffold_3	38594533	38595349	MSTRG.12157.1	PPP1R14D
scaffold_3	58599538	58798770	MSTRG.12376.1	PPP1R3D
scaffold_3	58599664	58795502	MSTRG.12376.3	PPP1R3D
scaffold_3	14286098	14310538	MSTRG.11937.1	PPP2R3C
scaffold_3	24626609	24627743	PPR3E_g12102.t1	PPP1R3E
scaffold_3	5323	18898	PRDM7_g11938.t1	PRDM7
scaffold_3	18523929	18813561	MSTRG.11977.1	PRKD1
scaffold_3	18524118	18813561	MSTRG.11977.4	PRKD1
scaffold_3	18523929	18813561	MSTRG.11977.2	PRKD1
scaffold_3	18524118	18813561	MSTRG.11977.5	PRKD1
scaffold_3	18738033	18813561	MSTRG.11977.6	PRKD1
scaffold_3	14156824	14286106	MSTRG.11936.1	PRORP
scaffold_3	5948709	5990742	MSTRG.11893.2	PRPF39
scaffold_3	5948696	5990742	MSTRG.11893.1	PRPF39
scaffold_3	5948739	5990742	MSTRG.11893.3	PRPF39
scaffold_3	5966634	5972566	MSTRG.11893.5	PRPF39
scaffold_3	67696982	67716167	MSTRG.12466.1	PRPL1
scaffold_3	51153453	51230255	PRTG_g12501.t1	PRTG
scaffold_3	24820236	24821117	PSB11_g12111.t1	PSB11
scaffold_3	24826373	24830980	PSB5_g12112.t1	PSMB5
scaffold_3	24826208	24830980	PSB5_g12112.t2	PSMB5
scaffold_3	55903656	55903862	MSTRG.12349.1	PSIP1
scaffold_3	70520283	70528866	MSTRG.12500.1	PSMA4
scaffold_3	23961521	23963998	PSME1_g12083.t1	PSME1
scaffold_3	23954885	23958103	PSME2_g12081.t1	PSME2
scaffold_3	93722051	93722365	PTH1R_g12837.t1	PTH1R
scaffold_3	68196606	68269713	PTN9_g12674.t1	PTN9
scaffold_3	33739391	33739595	MSTRG.12097.1	PUS7L
scaffold_3	93019104	93024399	PX11A_g12814.t2	PX11A
scaffold_3	1278007	1315344	MSTRG.11850.1	PYGL
scaffold_3	51073394	51093089	PYGO1_g12499.t1	PYGO1
scaffold_3	51069707	51070400	MSTRG.12281.1	PYGO1
scaffold_3	24646653	24689934	R212B_g12104.t1	R212B
scaffold_3	27898959	27912669	RAB2B_g12154.t1	RAB2B
scaffold_3	57753650	57815819	RAB8B_g12545.t1	RAB8B
scaffold_3	23845221	23851240	MSTRG.11997.1	RABGGTA
scaffold_3	38498618	38527031	MSTRG.12150.1	RAD51
scaffold_3	38498724	38527031	MSTRG.12150.2	RAD51
scaffold_3	38498724	38527521	MSTRG.12150.3	RAD51
scaffold_3	38498883	38527031	MSTRG.12150.4	RAD51

scaffold_3	38525510	38542882	MSTRG.12151.1	RAD51
scaffold_3	38502294	38524762	RAD51_g12352.t1	RAD51
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scaffold_3	13699657	13940739	MSTRG.11933.1	RALGAPA1
scaffold_3	13699657	13940739	MSTRG.11933.2	RALGAPA1
scaffold_3	95106966	95108748	RAMAC_g12859.t1	RAMAC
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scaffold_3	36565015	36643623	MSTRG.12125.1	RASGRP1
scaffold_3	36565015	36643623	MSTRG.12125.2	RASGRP1
scaffold_3	36568230	36595905	MSTRG.12125.4	RASGRP1
scaffold_3	60080974	60096905	RB11A_g12584.t1	RAB11A
scaffold_3	50792965	50807950	RB27A_g12494.t1	RB27A
scaffold_3	50814587	50837355	RB27A_g12494.t2	RB27A
scaffold_3	59903361	59903577	MSTRG.12398.1	RBFOX1
scaffold_3	24915204	24925296	MSTRG.12034.2	RBM23
scaffold_3	24915204	24925296	MSTRG.12034.3	RBM23
scaffold_3	24915204	24925296	MSTRG.12034.4	RBM23
scaffold_3	24915204	24925296	MSTRG.12034.1	RBM23
scaffold_3	24915214	24925296	MSTRG.12034.5	RBM23
scaffold_3	59115280	59141139	MSTRG.12383.2	RBPMS2
scaffold_3	59114626	59141139	MSTRG.12383.1	RBPMS2
scaffold_3	93611286	93615983	RCCD1_g12830.t1	RCCD1
scaffold_3	69322854	69338776	MSTRG.12491.1	RCN2
scaffold_3	69323607	69338776	RCN2_g12685.t1	RCN2
scaffold_3	66624205	66701227	RE114_g12636.t1	RE114
scaffold_3	23928326	23930566	MSTRG.12004.2	REC8
scaffold_3	23927646	23933929	REC8_g12079.t1	REC8
scaffold_3	24936349	24942027	REM2_g12117.t1	REM2
scaffold_3	24935542	24942027	MSTRG.12035.1	REM2
scaffold_3	51469600	51598150	MSTRG.12289.2	RFX7
scaffold_3	51469599	51598150	MSTRG.12289.1	RFX7
scaffold_3	51469600	51598150	MSTRG.12289.3	RFX7
scaffold_3	87335087	87335378	MSTRG.12623.1	RGMA
scaffold_3	87336925	87337150	MSTRG.12626.1	RGMA
scaffold_3	87292613	87327134	RGMA_g12785.t1	RGMA
scaffold_3	13742597	13940022	RGPA1_g12013.t1	RGPA1
scaffold_3	16809922	16874508	RHG05_g12032.t2	ARHGAP5
scaffold_3	33087221	33110005	RHGBA_g12316.t1	ARHGAP11A
scaffold_3	38646575	38647679	RHOV_g12359.t1	RHOV
scaffold_3	33717524	33733707	RIDA_g12320.t1	RIDA
scaffold_3	4853631	4853936	RL10L_g11975.t1	RL10L
scaffold_3	60629789	60634829	RL4_g12590.t1	RPL4
scaffold_3	63252523	63254924	RLA1_g12612.t1	RPLP1
scaffold_3	55568230	55755538	RM15_g12534.t1	RM15
scaffold_3	91980456	91989896	RM46_g12798.t1	MRPL46

scaffold_3	24973899	24977897	RM52_g12120.t1	RM52
scaffold_3	38526490	38542385	RMD3_g12353.t1	RMD3
scaffold_3	54075989	54120256	RN111_g12522.t1	RNF111
scaffold_3	28502951	28503394	RNAS4_g12177.t1	RNASE4
scaffold_3	28480565	28481029	RNAS6_g12176.t1	RNAS6
scaffold_3	54092512	54120256	MSTRG.12312.6	RNF111
scaffold_3	24627911	24630548	MSTRG.12021.1	RNF212B
scaffold_3	24646344	24646549	MSTRG.12023.1	RNF212B
scaffold_3	23943316	23953945	RNF31_g12080.t2	RNF31
scaffold_3	28278069	28278530	RNS13_g12167.t1	RNS13
scaffold_3	55340027	55446022	RORA_g12533.t1	RORA
scaffold_3	55348284	55348616	MSTRG.12330.1	RORA
scaffold_3	55352512	55352734	MSTRG.12331.1	RORA
scaffold_3	67445403	67445786	RPAB2_g12652.t1	POLR2F
scaffold_3	39153396	39168244	RPAP1_g12373.t1	RPAP1
scaffold_3	39152095	39169059	MSTRG.12170.1	RPAP1
scaffold_3	28011753	28061873	RPGR1_g12157.t1	RPGRIP1
scaffold_3	67833757	67834398	RPP25_g12666.t2	RPP25
scaffold_3	94703379	94706709	MSTRG.12687.1	RPS17
scaffold_3	57724658	57728940	MSTRG.12368.1	RPS27L
scaffold_3	57724658	57728940	MSTRG.12368.2	RPS27L
scaffold_3	48617418	48617726	RS15_g12487.t1	RPS15
scaffold_3	48622094	48622402	RS15_g12488.t1	RPS15
scaffold_3	94703454	94706709	RS17_g12851.t1	RPS17
scaffold_3	57725266	57728940	RS27L_g12544.t1	RPS27L
scaffold_3	75874479	75879729	RSMN_g12734.t1	SNRPN
scaffold_3	91990256	92002180	RT11_g12799.t1	MRPS11
scaffold_3	39082636	39126836	RTF1_g12370.t2	RTF1
scaffold_3	375157	390849	RTRAF_g11944.t1	RTRAF
scaffold_3	79979502	79993734	RU2A_g12757.t1	RU2A
scaffold_3	38389885	38394303	RUSD2_g12350.t1	RPUSD2
scaffold_3	38386420	38394303	RUSD2_g12350.t2	RPUSD2
scaffold_3	31974115	32420670	RYR3_g12309.t1	RYR3
scaffold_3	31972765	31979370	MSTRG.12095.1	RYR3
scaffold_3	31974265	31980122	MSTRG.12095.3	RYR3
scaffold_3	28842316	28845537	S12A3_g12190.t1	SLC12A3
scaffold_3	28846408	28849271	S12A3_g12191.t1	SLC12A3
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scaffold_3	31609618	31685491	S12A6_g12303.t1	SLC12A6
scaffold_3	24591051	24596876	S22AH_g12100.t2	SLC22A7
scaffold_3	94444732	94488118	S28A1_g12849.t1	SLC28A1
scaffold_3	70314517	70314728	MSTRG.12496.1	SACS
scaffold_3	27861128	27865888	SALL2_g12151.t1	SALL2
scaffold_3	27860934	27866161	MSTRG.12050.1	SALL2
scaffold_3	92936870	92976839	MSTRG.12648.1	SAMD12

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scaffold_3	96096442	96225493	MSTRG.12709.2	SAXO2
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scaffold_3	45536544	45587435	SBP2L_g12453.t1	SECISBP2L
scaffold_3	94232623	94285712	SC11A_g12847.t1	SEC11A
scaffold_3	11053266	11107599	SC23A_g11998.t1	SC23A
scaffold_3	11053167	11107599	SC23A_g11998.t2	SC23A
scaffold_3	67752493	67773031	SCAM2_g12662.t1	SCAM2
scaffold_3	69378700	69806602	SCAPE_g12686.t1	SCAPE
scaffold_3	33029751	33083759	MSTRG.12099.1	SCG5
scaffold_3	23669366	23672587	MSTRG.11990.1	SDR39U1
scaffold_3	23669569	23672587	MSTRG.11990.2	SDR39U1
scaffold_3	94238907	94285712	MSTRG.12680.2	SEC11A
scaffold_3	45533017	45533425	MSTRG.12243.1	SECISBP2L
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scaffold_3	79998226	80001536	MSTRG.12594.2	SELENOS
scaffold_3	79998226	80016199	MSTRG.12594.3	SELENOS
scaffold_3	79998226	80016199	SELS_g12758.t1	SELENOS
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scaffold_3	67377833	67400906	MSTRG.12460.1	SEMA7A
scaffold_3	65549955	65551834	SENP8_g12623.t1	SENP8
scaffold_3	70924142	70931582	SH2D7_g12705.t1	SH2D7
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scaffold_3	42090528	42110121	SHF_g12432.t1	SHF
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scaffold_3	61775229	61782659	SKOR1_g12599.t1	SKOR1
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scaffold_3	24590521	24596876	MSTRG.12017.1	SLC22A17
scaffold_3	59873061	59873399	MSTRG.12396.1	SLC24A1
scaffold_3	59872444	59872657	MSTRG.12399.1	SLC24A1
scaffold_3	59899522	59899749	MSTRG.12400.1	SLC24A1
scaffold_3	59367921	59372735	MSTRG.12389.1	SLC51B
scaffold_3	24701405	24748191	LAT2_g12105.t1	SLC7A8
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scaffold_3	53965858	54008656	SLTM_g12520.t1	SLTM

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scaffold_3	60625731	60628121	SNPC5_g12589.t1	SNPC5
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scaffold_3	79979502	79991522	MSTRG.12592.2	SNRPA1
scaffold_3	68283772	68304237	MSTRG.12483.1	SNUPN
scaffold_3	68283783	68304202	MSTRG.12483.2	SNUPN
scaffold_3	42940372	42940656	SNUT1_g12439.t1	SART1
scaffold_3	58541384	58564637	MSTRG.12373.2	SNX1
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scaffold_3	58541380	58575071	SNX1_g12553.t1	SNX1
scaffold_3	74933403	74933613	MSTRG.12560.1	SNX25
scaffold_3	68326444	68336520	MSTRG.12484.1	SNX33
scaffold_3	68327333	68335511	SNX33_g12677.t1	SNX33
scaffold_3	14662899	14714013	SNX6_g12024.t1	SNX6
scaffold_3	14764690	14773481	SNX6_g12025.t1	SNX6
scaffold_3	14707800	14714013	MSTRG.11945.3	SNX6
scaffold_3	14765556	14771551	MSTRG.11949.2	SNX6
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scaffold_3	1827313	1919572	SOS2_g11960.t1	SOS2
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scaffold_3	42318572	42321193	SPA5L_g12435.t2	AFG2B
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scaffold_3	41734884	41821345	MSTRG.12220.3	SPG11
scaffold_3	41785008	41809305	MSTRG.12220.4	SPG11
scaffold_3	59299361	59318028	MSTRG.12386.1	SPG21
scaffold_3	59299948	59314029	SPG21_g12567.t1	SPG21
scaffold_3	38622481	38634029	SPIT1_g12358.t1	SPIT1
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scaffold_3	41734777	41821345	SPTCS_g12422.t1	SPTCS
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scaffold_3	14827737	14844288	SPTSA_g12027.t1	SPTSSA
scaffold_3	42480510	42511770	SQOR_g12438.t1	SQOR
scaffold_3	37911187	37913852	SRP14_g12336.t1	SRP14
scaffold_3	14355634	14396549	MSTRG.11941.1	SRP54
scaffold_3	14357564	14387086	SRP54_g12020.t1	SRP54
scaffold_3	11665752	11667269	SSR1_g12000.t2	SSR1
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scaffold_3	40102660	40222112	STAR9_g12390.t1	STAR9

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scaffold_3	67061255	67070364	MSTRG.12456.3	STOML1
scaffold_3	67061438	67070364	MSTRG.12456.4	STOML1
scaffold_3	67061198	67070364	MSTRG.12456.1	STOML1
scaffold_3	67061198	67070364	MSTRG.12456.2	STOML1
scaffold_3	67061438	67070364	MSTRG.12456.5	STOML1
scaffold_3	42911403	42912721	MSTRG.12232.1	STRA6
scaffold_3	71543552	71545412	MSTRG.12524.1	STRA6
scaffold_3	67175114	67196956	STRA6_g12646.t1	STRA6
scaffold_3	40979627	40995064	STRC_g12410.t1	STRC
scaffold_3	17615578	17722475	MSTRG.11974.1	STRN3
scaffold_3	17616510	17719946	STRN3_g12040.t1	STRN3
scaffold_3	81867481	81892302	SYNEM_g12772.t1	SYNM
scaffold_3	81864831	81886966	MSTRG.12614.1	SYNM
scaffold_3	54562522	54570923	T2AG_g12528.t1	GTF2A2
scaffold_3	74682726	74685028	MSTRG.12544.1	TASR5
scaffold_3	70943956	71031478	TBD2B_g12706.t1	TBC1D2B
scaffold_3	52221321	52595126	MSTRG.12295.1	TCF12
scaffold_3	52221336	52592598	MSTRG.12295.2	TCF12
scaffold_3	52221336	52383883	MSTRG.12295.3	TCF12
scaffold_3	52221361	52592598	MSTRG.12295.4	TCF12
scaffold_3	28871912	28908385	MSTRG.12074.1	TEP1
scaffold_3	28871922	28908385	MSTRG.12074.2	TEP1
scaffold_3	28852539	28858975	TEP1_g12193.t1	TEP1
scaffold_3	28875462	28908385	TEP1_g12193.t2	TEP1
scaffold_3	6005630	6090847	TGRM1_g11982.t1	TGRM1
scaffold_3	37473975	37490410	MSTRG.12126.1	THBS1
scaffold_3	64675140	65231134	MSTRG.12444.2	THSD4
scaffold_3	24403928	24405666	MSTRG.12013.4	THTPA
scaffold_3	24404793	24408226	MSTRG.12014.1	THTPA
scaffold_3	24405663	24408226	THTPA_g12094.t1	THTPA
scaffold_3	92936967	92976839	TICRR_g12811.t1	TICRR
scaffold_3	23879458	23882534	TINF2_g12071.t1	TINF2
scaffold_3	60508738	60523339	MSTRG.12410.1	TIPIN
scaffold_3	60508738	60523339	MSTRG.12410.2	TIPIN
scaffold_3	60508738	60523339	MSTRG.12410.3	TIPIN
scaffold_3	60509536	60520523	TIPIN_g12587.t1	TIPIN
scaffold_3	79294667	79296808	MSTRG.12586.1	TJP1
scaffold_3	79184282	79295073	MSTRG.12585.1	TJP1
scaffold_3	79187503	79295073	MSTRG.12585.2	TJP1
scaffold_3	63762038	63812859	MSTRG.12441.1	TLE2
scaffold_3	63764786	63811829	TLE3_g12613.t1	TLE3

scaffold_3	57017260	57449441	MSTRG.12362.2	TLN2
scaffold_3	57018428	57449441	MSTRG.12362.4	TLN2
scaffold_3	57017258	57461013	MSTRG.12362.1	TLN2
scaffold_3	57346721	57386279	MSTRG.12362.7	TLN2
scaffold_3	97214186	97215274	TLRN1_g12875.t1	TLRN1
scaffold_3	54083713	54084129	TM183_g12523.t1	TMEM183A
scaffold_3	69938435	70005858	TM266_g12689.t1	TMEM266
scaffold_3	79605625	79617230	MSTRG.12590.1	TM2D3
scaffold_3	79605625	79617230	MSTRG.12590.2	TM2D3
scaffold_3	79605625	79617230	TM2D3_g12755.t1	TM2D3
scaffold_3	95218597	95247686	TM6S1_g12862.t1	TM6S1
scaffold_3	95247687	95248090	MSTRG.12700.1	TM6SF1
scaffold_3	39799075	39807337	TM87A_g12383.t1	TM87A
scaffold_3	39809068	39834843	TM87A_g12383.t2	TM87A
scaffold_3	23913840	23919080	TM9S1_g12077.t1	TM9SF1
scaffold_3	23913138	23927598	MSTRG.12005.1	TM9SF1
scaffold_3	71527642	71538547	MSTRG.12519.1	TMED3
scaffold_3	71527737	71538547	TMED3_g12712.t1	TMED3
scaffold_3	17054452	17232549	MSTRG.11967.1	TMEM159
scaffold_3	25364368	25393839	MSTRG.12047.1	TMEM176A
scaffold_3	25364549	25393839	MSTRG.12047.2	TMEM176A
scaffold_3	25364549	25370017	MSTRG.12047.4	TMEM176A
scaffold_3	69937892	70055560	MSTRG.12495.1	TMEM266
scaffold_3	40568295	40602982	MSTRG.12195.3	TMEM62
scaffold_3	40581650	40594245	MSTRG.12195.6	TMEM62
scaffold_3	40581650	40593358	MSTRG.12195.7	TMEM62
scaffold_3	39809811	39834843	MSTRG.12179.4	TMEM87A
scaffold_3	40569566	40602982	TMM62_g12394.t1	TMEM62
scaffold_3	40603270	40612923	TMM62_g12394.t2	TMEM62
scaffold_3	47773196	47802514	TMOD2_g12476.t1	TMOD2
scaffold_3	47818510	47890037	MSTRG.12260.1	TMOD3
scaffold_3	47848113	47890037	TMOD3_g12477.t1	TMOD3
scaffold_3	1030864	1045135	MSTRG.11846.1	TMX1
scaffold_3	1040079	1045135	MSTRG.11846.3	TMX1
scaffold_3	1033246	1045135	TMX1_g11949.t1	TMX1
scaffold_3	16973559	16982352	TNC18_g12033.t1	TNRC18
scaffold_3	27883459	27898638	MSTRG.12052.1	TOX4
scaffold_3	27883757	27898638	MSTRG.12052.2	TOX4
scaffold_3	27884053	27898638	TOX4_g12153.t1	TOX4
scaffold_3	40815585	40843218	TP53B_g12403.t1	TP53B
scaffold_3	40845882	40889653	TP53B_g12404.t1	TP53B
scaffold_3	40849764	40875595	MSTRG.12200.3	TP53BP1
scaffold_3	40852992	40908565	MSTRG.12200.4	TP53BP1
scaffold_3	10988369	11002291	TPC6B_g11996.t1	TPC6B
scaffold_3	57618720	57645629	TPM1_g12542.t1	TPM1

scaffold_3	28280265	28281806	TPPP2_g12168.t1	TPPP2
scaffold_3	10987408	11002291	MSTRG.11914.1	TRAPPC6B
scaffold_3	1140324	1250681	TRIM9_g11950.t1	TRIM9
scaffold_3	58811921	58867373	MSTRG.12380.2	TRIP4
scaffold_3	58811921	58867373	MSTRG.12380.3	TRIP4
scaffold_3	58811918	58867373	TRIP4_g12558.t1	TRIP4
scaffold_3	78075198	78173285	TRPM1_g12743.t1	TRPM1
scaffold_3	46756862	46883698	MSTRG.12251.1	TRPM7
scaffold_3	37474852	37490410	TSP1_g12333.t1	THBS1
scaffold_3	23905074	23907220	TSSK4_g12076.t1	TSSK4
scaffold_3	40237521	40241893	MSTRG.12188.1	TTBK2
scaffold_3	40238742	40333467	MSTRG.12189.1	TTBK2
scaffold_3	40245202	40333467	TTBK2_g12392.t1	TTBK2
scaffold_3	81785680	81861892	TTC23_g12771.t1	TTC23
scaffold_3	28959228	28974753	MSTRG.12076.2	TTC5
scaffold_3	28975425	28975650	MSTRG.12080.1	TTC5
scaffold_3	28959218	28974753	TTC5_g12196.t1	TTC5
scaffold_3	93522151	93532604	TTL13_g12826.t1	TTL13
scaffold_3	16248548	16249271	MSTRG.11955.1	TUBAL3
scaffold_3	72252026	72301621	MSTRG.12532.1	TUBGCP5
scaffold_3	72252079	72258811	MSTRG.12532.3	TUBGCP5
scaffold_3	39185729	39192323	MSTRG.12171.3	TYRO3
scaffold_3	39175869	39191500	TYRO3_g12374.t1	TYRO3
scaffold_3	40727933	40729993	TYW4_g12397.t1	TYW4
scaffold_3	64311292	64345313	MSTRG.12442.2	UACA
scaffold_3	64302043	64390226	UACA_g12615.t1	UACA
scaffold_3	41523405	41523958	UB2E1_g12420.t1	UBE2E1
scaffold_3	70255773	70313877	UB2Q2_g12693.t1	UB2Q2
scaffold_3	70254169	70313877	MSTRG.12499.5	UBE2Q2
scaffold_3	75487192	75576900	MSTRG.12547.2	UBE3A
scaffold_3	75518063	75576900	UBE3A_g12731.t1	UBE3A
scaffold_3	75486102	75581934	MSTRG.12547.1	UBE3A
scaffold_3	67409566	67423794	MSTRG.12462.2	UBL7
scaffold_3	67410873	67421783	UBL7_g12651.t1	UBL7
scaffold_3	67407886	67423794	MSTRG.12462.1	UBL7
scaffold_3	67410788	67415541	MSTRG.12462.3	UBL7
scaffold_3	67413096	67416432	MSTRG.12462.5	UBL7
scaffold_3	58041510	58131973	UBP3_g12548.t1	USP3
scaffold_3	10036722	10073554	UBP31_g11990.t2	UBP31
scaffold_3	46677489	46718080	UBP8_g12464.t1	UBP8
scaffold_3	40392257	40535001	MSTRG.12194.1	UBR1
scaffold_3	40394746	40534585	UBR1_g12393.t1	UBR1
scaffold_3	67744503	67750480	ULK3_g12661.t1	ULK3
scaffold_3	49947811	50296369	UN13C_g12492.t1	UN13C
scaffold_3	93618555	93631330	UN45A_g12831.t1	UNC45A

scaffold_3	58037118	58145149	MSTRG.12374.1	USP3
scaffold_3	58037118	58098591	MSTRG.12374.2	USP3
scaffold_3	58037711	58140601	MSTRG.12374.3	USP3
scaffold_3	58041226	58093656	MSTRG.12374.4	USP3
scaffold_3	58102886	58141644	MSTRG.12374.6	USP3
scaffold_3	54255086	54255318	MSTRG.12322.1	USP31
scaffold_3	1920295	1931218	MSTRG.11865.2	VCPKMT
scaffold_3	1920295	1931218	MSTRG.11865.1	VCPKMT
scaffold_3	1920307	1931218	MSTRG.11865.3	VCPKMT
scaffold_3	56602572	56777062	VP13C_g12537.t1	VPS13C
scaffold_3	93543769	93562024	VP33B_g12828.t1	VP33B
scaffold_3	38660480	38672372	MSTRG.12158.1	VPS18
scaffold_3	93543237	93562024	MSTRG.12667.1	VPS33B
scaffold_3	93543423	93562024	MSTRG.12667.2	VPS33B
scaffold_3	93560929	93565078	MSTRG.12668.1	VPS33B
scaffold_3	39738578	39753076	VPS39_g12382.t3	VPS39
scaffold_3	39757010	39796104	VPS39_g12382.t4	VPS39
scaffold_3	97897004	97897377	MSTRG.12724.1	VPS50
scaffold_3	70735895	70747544	WDR61_g12700.t1	WDR61
scaffold_3	49328337	49570086	WDR72_g12490.t1	WDR72
scaffold_3	94214114	94226623	WDR73_g12845.t1	WDR73
scaffold_3	94213480	94226623	MSTRG.12679.1	WDR73
scaffold_3	94215301	94229598	MSTRG.12679.3	WDR73
scaffold_3	41084768	41138248	MSTRG.12212.2	WDR76
scaffold_3	93034336	93077083	WDR93_g12815.t1	WDR93
scaffold_3	94954569	94973433	WHAMM_g12857.t1	WHAMM
scaffold_3	24982278	25019174	YLAT1_g12121.t1	YLAT1
scaffold_3	51905419	51999490	Z280D_g12506.t1	Z280D
scaffold_3	28998603	28999032	MSTRG.12073.1	ZC3H8
scaffold_3	93895984	93995180	MSTRG.12676.1	TUT4
scaffold_3	93895984	93995180	MSTRG.12676.2	TUT4
scaffold_3	71906845	71922201	ZFAN6_g12715.t1	ZFAND6
scaffold_3	71906761	71922201	ZFAN6_g12715.t2	ZFAND6
scaffold_3	71850490	71922201	MSTRG.12527.1	ZFAND6
scaffold_3	71906845	71922201	MSTRG.12527.4	ZFAND6
scaffold_3	24426373	24439115	ZFHX2_g12095.t1	ZFHX2
scaffold_3	38587938	38593605	MSTRG.12155.2	ZFYVE19
scaffold_3	71967000	71967497	ZKSC2_g12717.t1	ZKSCAN2
scaffold_3	75822135	75898029	MSTRG.12570.1	ZKSCAN8
scaffold_3	39973430	40012841	ZN106_g12386.t1	ZNF106
scaffold_3	28222581	28226056	ZN219_g12163.t1	ZNF219
scaffold_3	58898805	59070649	ZN609_g12559.t1	ZNF609
scaffold_3	93390953	93399612	ZN710_g12821.t1	ZNF710
scaffold_3	39968339	40030937	MSTRG.12181.1	ZNF106
scaffold_3	39969168	40004047	MSTRG.12181.2	ZNF106

scaffold_3	39969169	40030937	MSTRG.12181.3	ZNF106
scaffold_3	28211719	28226056	MSTRG.12061.1	ZNF219
scaffold_3	28217620	28226056	MSTRG.12061.2	ZNF219
scaffold_3	28217620	28226056	MSTRG.12061.3	ZNF219
scaffold_3	51904155	52020519	MSTRG.12294.1	ZNF280D
scaffold_3	51941566	52020519	MSTRG.12294.3	ZNF280D
scaffold_3	51989215	52020519	MSTRG.12294.5	ZNF280D
scaffold_3	55805295	55805576	MSTRG.12334.1	ZNF385B
scaffold_3	58873193	59075464	MSTRG.12382.1	ZNF609
scaffold_3	58898818	58904037	MSTRG.12382.3	ZNF609
scaffold_3	59015362	59024114	MSTRG.12382.4	ZNF609
scaffold_3	48008884	48009085	MSTRG.12263.1	ZNF691
scaffold_3	33452611	33461256	MSTRG.12101.1	ZNF770
scaffold_3	33452611	33461256	MSTRG.12101.2	ZNF770
scaffold_3	42352804	42378536	ZNT4_g12436.t1	SLC30A4
scaffold_3	79190426	79294666	ZO1_g12753.t1	TJP1
scaffold_3	40767255	40776712	ZSC29_g12401.t1	ZSCAN29
scaffold_3	94161984	94179563	ZSCA2_g12843.t1	ZSCAN2
scaffold_3	94188791	94195728	MSTRG.12678.1	ZSCAN2
scaffold_3	40765926	40777689	MSTRG.12197.1	ZSCAN29
scaffold_3	40767815	40777689	MSTRG.12197.3	ZSCAN29
scaffold_3	40768073	40770472	MSTRG.12197.4	ZSCAN29
scaffold_3	60635292	60668477	ZWILC_g12591.t1	ZWILCH
scaffold_3	60635364	60668477	ZWILC_g12591.t2	ZWILCH
scaffold_3	60634996	60671110	MSTRG.12416.1	ZWILCH
scaffold_30	24450903	24472414	MSTRG.12969.1	AARS1
scaffold_30	24450903	24472414	MSTRG.12969.2	AARS1
scaffold_30	11382913	11405483	AATM_g13001.t1	GOT2
scaffold_30	37096915	37158999	ACSF3_g13269.t1	ACSF3
scaffold_30	37090161	37158999	MSTRG.13104.1	ACSF3
scaffold_30	37090161	37154724	MSTRG.13104.2	ACSF3
scaffold_30	37090174	37169083	MSTRG.13104.3	ACSF3
scaffold_30	37096888	37153764	MSTRG.13104.4	ACSF3
scaffold_30	24127403	24149843	MSTRG.12960.1	ADAMTS17
scaffold_30	24127468	24149843	MSTRG.12960.2	ADAMTS17
scaffold_30	26984701	27110364	MSTRG.12994.3	ADAMTS18
scaffold_30	25570055	25589499	ADAT1_g13157.t1	ADAT1
scaffold_30	3484305	3494283	MSTRG.12757.2	ADCY7
scaffold_30	3484794	3494283	MSTRG.12757.3	ADCY7
scaffold_30	10475140	10494070	MSTRG.12816.1	ADGRG1
scaffold_30	37877055	37888797	AFG31_g13290.t1	AFG3L1P
scaffold_30	6240025	6246617	AKTIP_g12927.t1	AKTIP
scaffold_30	6239298	6249484	MSTRG.12765.1	AKTIP
scaffold_30	6239303	6249484	MSTRG.12765.2	AKTIP
scaffold_30	368695	394573	ALAT2_g12892.t1	GPT2

scaffold_30	394658	401702	ALAT2_g12893.t1	GPT2
scaffold_30	394574	401702	ALAT2_g12893.t2	GPT2
scaffold_30	9372797	9414167	AMFR_g12954.t1	AMFR
scaffold_30	37233021	37447554	MSTRG.13106.1	ANKRD11
scaffold_30	37233021	37447554	MSTRG.13106.2	ANKRD11
scaffold_30	37233021	37447554	MSTRG.13106.3	ANKRD11
scaffold_30	37233695	37267557	MSTRG.13106.4	ANKRD11
scaffold_30	28570618	28570830	MSTRG.13018.1	ANKS1B
scaffold_30	19550544	19591862	ANM7_g13079.t1	PRMT7
scaffold_30	37234586	37281672	ANR11_g13272.t1	ANKRD11
scaffold_30	23117374	23171664	AP1G1_g13117.t1	AP1G1
scaffold_30	23093951	23171664	MSTRG.12949.1	AP1G1
scaffold_30	36839355	36841780	APT_g13262.t1	APRT
scaffold_30	32999212	33068809	AT2C2_g13208.t1	ATP2C2
scaffold_30	30116620	30128971	ATMIN_g13182.t1	ATMIN
scaffold_30	30129707	30130801	MSTRG.13031.1	ATMIN
scaffold_30	28201962	28202182	MSTRG.13009.1	ATN1
scaffold_30	26986915	27110364	ATS18_g13165.t1	ADAMTS18
scaffold_30	23068011	23070060	ATX1L_g13114.t1	ATXN1L
scaffold_30	23062523	23073501	MSTRG.12945.1	ATXN1L
scaffold_30	18582639	18583885	B3GN9_g13033.t1	B3GNT9
scaffold_30	18582428	18584426	MSTRG.12863.1	B3GNT9
scaffold_30	36008891	36106193	BANP_g13248.t1	BANP
scaffold_30	35979856	36106193	MSTRG.13088.1	BANP
scaffold_30	36014840	36106193	MSTRG.13088.4	BANP
scaffold_30	36027558	36106193	MSTRG.13088.8	BANP
scaffold_30	36027856	36106193	MSTRG.13088.9	BANP
scaffold_30	9469188	9493410	BBS2_g12957.t1	BBS2
scaffold_30	9468839	9559194	MSTRG.12790.1	BBS2
scaffold_30	25294326	25332162	BCAR1_g13150.t1	BCAR1
scaffold_30	25291161	25318883	MSTRG.12982.1	BCAR1
scaffold_30	30292517	30328393	BCDO1_g13186.t1	BCO1
scaffold_30	3495532	3532672	BRD7_g12915.t1	BRD7
scaffold_30	34113350	34144955	MSTRG.13077.1	C16ORF74
scaffold_30	29869528	29869753	MSTRG.13030.1	C4ORF51
scaffold_30	33668028	33670379	CAC1H_g13217.t1	CACNA1H
scaffold_30	16685038	16730249	CAD11_g13009.t2	CDH11
scaffold_30	31501478	32438127	CAD13_g13195.t1	CDH13
scaffold_30	19844232	19887998	CADH3_g13081.t1	CDH3
scaffold_30	13850132	14169917	CADH8_g13006.t1	CDH8
scaffold_30	18351354	18359588	CAH7_g13023.t1	CA7
scaffold_30	23519462	23548444	CALB2_g13124.t1	CALB2
scaffold_30	18985851	18997817	CARL2_g13052.t1	CARMIL2
scaffold_30	18494661	18547788	MSTRG.12861.1	CBFB
scaffold_30	18494662	18535885	MSTRG.12861.2	CBFB

scaffold_30	18494706	18535885	MSTRG.12861.3	CBFB
scaffold_30	34113355	34144955	MSTRG.13077.2	CBR4
scaffold_30	10381632	10403526	MSTRG.12813.1	CCDC102A
scaffold_30	10298863	10300691	CCL17_g12972.t1	CCL17
scaffold_30	10252360	10256774	CCL22_g12969.t1	CCL22
scaffold_30	33979259	34051070	MSTRG.13072.1	CCL22
scaffold_30	7443906	7447725	MSTRG.12777.1	CD200R1
scaffold_30	19920748	19995063	MSTRG.12911.1	CDH1
scaffold_30	37617056	37625835	CDK10_g13278.t1	CDK10
scaffold_30	37617710	37617926	MSTRG.13115.1	CDK10
scaffold_30	36830068	36838576	CDT1_g13261.t1	CDT1
scaffold_30	36833894	36838576	MSTRG.13094.2	CDT1
scaffold_30	29791114	29940286	CDYL2_g13179.t1	CDYL2
scaffold_30	29785611	29786071	MSTRG.13026.1	CDYL2
scaffold_30	29789854	29790254	MSTRG.13027.1	CDYL2
scaffold_30	29788839	29789141	MSTRG.13028.1	CDYL2
scaffold_30	37874859	37892911	MSTRG.13129.9	CENPBD1P
scaffold_30	30091017	30113941	CENPN_g13181.t1	CENPN
scaffold_30	30087169	30113941	MSTRG.13034.1	CENPN
scaffold_30	30087253	30113941	MSTRG.13034.2	CENPN
scaffold_30	19140967	19146550	CENPT_g13060.t1	CENPT
scaffold_30	19140863	19146550	MSTRG.12879.1	CENPT
scaffold_30	19140875	19146550	MSTRG.12879.2	CENPT
scaffold_30	19140875	19146550	MSTRG.12879.3	CENPT
scaffold_30	8559325	8589326	MSTRG.12784.1	CES1
scaffold_30	18420791	18432203	EST2_g13029.t1	CES2
scaffold_30	18428680	18432995	MSTRG.12860.4	CES2
scaffold_30	10866378	10878659	CFA20_g12989.t1	CFAP20
scaffold_30	25354336	25475666	CFDP1_g13151.t1	CFDP1
scaffold_30	25351980	25475666	MSTRG.12983.1	CFDP1
scaffold_30	6019997	6164349	CHD9_g12925.t1	CHD9
scaffold_30	5989655	6164349	MSTRG.12764.2	CHD9
scaffold_30	6062021	6114500	MSTRG.12764.5	CHD9
scaffold_30	24650531	24650765	MSTRG.12970.1	CHD9
scaffold_30	37594227	37602528	CHM1A_g13276.t1	CHMP1A
scaffold_30	20207692	20218515	MSTRG.12914.1	CHTF8
scaffold_30	20207696	20218515	MSTRG.12914.2	CHTF8
scaffold_30	18417682	18419545	CIA2B_g13028.t1	CIAO2B
scaffold_30	18417590	18419545	MSTRG.12859.1	CIAO2B
scaffold_30	18417590	18419545	MSTRG.12859.2	CIAO2B
scaffold_30	18116951	18130069	CKLF2_g13018.t1	CKLF
scaffold_30	18376331	18377054	CLPT1_g13024.t1	CLPTM1
scaffold_30	30069891	30086945	MSTRG.13033.1	CMC2
scaffold_30	30447469	30686331	MSTRG.13049.1	CMIP
scaffold_30	18175903	18220586	MSTRG.12847.1	CMTM4

scaffold_30	18161057	18164560	MSTRG.12849.1	CMTM4
scaffold_30	23606193	23609082	CMTR2_g13125.t1	CMTR2
scaffold_30	23602338	23609920	MSTRG.12966.1	CMTR2
scaffold_30	11219149	11324070	MSTRG.12834.1	CNOT1
scaffold_30	11220547	11324070	MSTRG.12834.2	CNOT1
scaffold_30	11220986	11324070	MSTRG.12834.3	CNOT1
scaffold_30	11220991	11324070	MSTRG.12834.4	CNOT1
scaffold_30	24270163	24295561	COG4_g13131.t1	COG4
scaffold_30	20381950	20389743	COG8_g13092.t1	COG8
scaffold_30	10325307	10339021	COQ9_g12974.t1	COQ9
scaffold_30	33154636	33196205	COTL1_g13210.t2	COTL1
scaffold_30	34188234	34196362	COX41_g13222.t1	COX4I1
scaffold_30	34188438	34196362	MSTRG.13079.2	COX4I1
scaffold_30	34188992	34196362	MSTRG.13079.3	COX4I1
scaffold_30	30136233	30141095	CP046_g13183.t1	C16ORF46
scaffold_30	19007686	19009344	CP086_g13056.t1	C16ORF86
scaffold_30	225777	315493	CP087_g12891.t1	C16ORF87
scaffold_30	10310576	10319896	CPIN1_g12973.t1	CIAPIN1
scaffold_30	10048279	10079287	CPNE2_g12964.t2	CPNE2
scaffold_30	8033064	8033804	CPNS2_g12940.t1	CAPNS2
scaffold_30	9422075	9438287	CPSF5_g12955.t1	NUDT21
scaffold_30	33382352	33430756	CRLD2_g13213.t1	CRISPLD2
scaffold_30	10902336	10935799	CSK22_g12990.t1	CSNK2A2
scaffold_30	10896264	10935017	MSTRG.12824.1	CSNK2A2
scaffold_30	10901765	10935017	MSTRG.12824.2	CSNK2A2
scaffold_30	18934425	18981674	MSTRG.12875.1	CTCF
scaffold_30	18936490	18981674	MSTRG.12875.2	CTCF
scaffold_30	18936490	18981674	MSTRG.12875.3	CTCF
scaffold_30	19219488	19220735	CTRL_g13065.t1	CTRL
scaffold_30	36740222	36748604	CTU2_g13258.t1	CTU2
scaffold_30	36740163	36749040	MSTRG.13097.1	CTU2
scaffold_30	20459540	20488548	CYB5B_g13097.t1	CYB5B
scaffold_30	20491426	20492081	MSTRG.12925.1	CYB5B
scaffold_30	20488953	20489728	MSTRG.12926.1	CYB5B
scaffold_30	20490198	20490485	MSTRG.12927.1	CYB5B
scaffold_30	36681012	36690622	MSTRG.13091.1	CYBA
scaffold_30	3871691	3874371	MSTRG.12762.1	CYLD
scaffold_30	3871706	3947020	MSTRG.12762.2	CYLD
scaffold_30	3878318	3928015	MSTRG.12762.3	CYLD
scaffold_30	32829179	32852238	DAAF1_g13202.t1	DNAAF1
scaffold_30	37892924	37901374	DBND1_g13292.t1	DBNDD1
scaffold_30	18242778	18262902	DC1L2_g13020.t1	DYNC1LI2
scaffold_30	32623520	32640036	DCMC_g13196.t1	MLYCD
scaffold_30	24384793	24404817	DD19A_g13134.t1	DDX19A
scaffold_30	24424395	24444021	DD19B_g13135.t1	DDX19B

scaffold_30	24423443	24423794	MSTRG.12961.1	DDX19B
scaffold_30	24421677	24422768	MSTRG.12964.1	DDX19B
scaffold_30	11052916	11054579	DDX28_g12994.t1	DDX28
scaffold_30	19295668	19296373	DDX28_g13072.t1	DDX28
scaffold_30	11052903	11059424	MSTRG.12826.1	DDX28
scaffold_30	37853610	37892911	MSTRG.13129.1	DEF8
scaffold_30	37853612	37871124	MSTRG.13129.2	DEF8
scaffold_30	37856447	37892911	MSTRG.13129.3	DEF8
scaffold_30	37856447	37871124	MSTRG.13129.4	DEF8
scaffold_30	37856508	37871124	MSTRG.13129.5	DEF8
scaffold_30	37856508	37889370	MSTRG.13129.6	DEF8
scaffold_30	37857215	37867279	MSTRG.13129.7	DEF8
scaffold_30	18833521	18838793	DHI2_g13047.t1	HSD11B2
scaffold_30	22854288	22872621	MSTRG.12941.1	DHX38
scaffold_30	22854288	22872621	MSTRG.12941.2	DHX38
scaffold_30	29740295	29749226	DLRB2_g13178.t1	DYNLRB2
scaffold_30	418065	433487	DNJA2_g12894.t1	DNAJA2
scaffold_30	10350206	10356328	DOK4_g12976.t1	DOK4
scaffold_30	19289428	19291030	DP2NB_g13070.t1	DPEP2NB
scaffold_30	19264696	19268810	DPEP3_g13068.t1	DPEP3
scaffold_30	37906687	37924075	DRC4_g13293.t1	GAS8
scaffold_30	19296155	19304673	MSTRG.12895.1	DUS2
scaffold_30	19296155	19335650	MSTRG.12895.2	DUS2
scaffold_30	19296360	19304673	MSTRG.12895.4	DUS2
scaffold_30	19296360	19335650	MSTRG.12895.5	DUS2
scaffold_30	19296155	19335650	DUS2L_g13073.t1	DUS2
scaffold_30	18622316	18629581	E2F4_g13038.t1	E2F4
scaffold_30	18620937	18633842	MSTRG.12871.1	E2F4
scaffold_30	18620937	18629581	MSTRG.12871.2	E2F4
scaffold_30	18622316	18629581	MSTRG.12871.3	E2F4
scaffold_30	19174603	19185668	EDC4_g13062.t1	EDC4
scaffold_30	19174417	19185668	MSTRG.12886.1	EDC4
scaffold_30	18629582	18633842	ELMO3_g13039.t1	ELMO3
scaffold_30	34172462	34188184	EMC8_g13221.t1	EMC8
scaffold_30	19003554	19007151	ENKD1_g13055.t1	ENKD1
scaffold_30	36884303	36886934	EPAB2_g13266.t1	PABPN1L
scaffold_30	31810834	31811066	MSTRG.13052.1	ERCC6L2
scaffold_30	19467554	19473481	ESRP2_g13075.t1	ESRP2
scaffold_30	19472159	19473481	MSTRG.12899.3	ESRP2
scaffold_30	8160473	8172362	EST1_g12942.t1	CES1
scaffold_30	8642186	8669845	EST1_g12949.t1	CES1
scaffold_30	18443228	18454948	EST3_g13030.t1	CES3
scaffold_30	18607676	18611577	EX3L1_g13037.t1	EX3L1
scaffold_30	18614950	18620276	EX3L1_g13037.t2	EX3L1
scaffold_30	18614802	18621118	MSTRG.12870.1	EXOC3L1

scaffold_30	18614814	18621118	MSTRG.12870.2	EXOC3L1
scaffold_30	18614923	18621118	MSTRG.12870.3	EXOC3L1
scaffold_30	24473734	24474555	EXOS6_g13137.t1	EXOS6
scaffold_30	28031441	28032670	MSTRG.13007.1	F11R
scaffold_30	24904676	24942629	FA2H_g13144.t1	FA2H
scaffold_30	24954911	24955273	FA2H_g13145.t1	FA2H
scaffold_30	10086060	10117769	MSTRG.12804.1	FAM192A
scaffold_30	10086134	10117769	MSTRG.12804.2	FAM192A
scaffold_30	10107484	10117769	MSTRG.12804.4	FAM192A
scaffold_30	37722148	37726328	MSTRG.13119.2	FANCA
scaffold_30	35183662	35183973	FANCC_g13233.t1	FANCC
scaffold_30	35457526	35501784	FBX31_g13238.t1	FBX31
scaffold_30	18594276	18596028	FBXL8_g13035.t1	FBXL8
scaffold_30	24296665	24310591	FCSK_g13132.t1	FCSK
scaffold_30	18655964	18672510	FHOD1_g13041.t1	FHOD1
scaffold_30	36459156	36536849	FOG1_g13251.t1	FOG1
scaffold_30	34791157	34793926	FOXF1_g13228.t1	FOXF1
scaffold_30	34858942	34859979	FOXL1_g13231.t1	FOXL1
scaffold_30	6412059	6769306	FTO_g12930.t1	FTO
scaffold_30	24295994	24315594	MSTRG.12956.1	FUK
scaffold_30	24295994	24315594	MSTRG.12956.2	FUK
scaffold_30	24306930	24310591	MSTRG.12956.4	FUK
scaffold_30	36843612	36876264	GALNS_g13263.t1	GALNS
scaffold_30	36842726	36876264	MSTRG.13101.1	GALNS
scaffold_30	6923029	6923246	MSTRG.12773.1	GALT
scaffold_30	30346983	30400767	GAN_g13187.t1	GAN
scaffold_30	30402708	30403196	MSTRG.13039.1	GAN
scaffold_30	30400819	30402045	MSTRG.13044.1	GAN
scaffold_30	37919960	37927613	MSTRG.13128.1	GAS8
scaffold_30	25269103	25269353	MSTRG.12980.1	GATA4
scaffold_30	25547268	25556519	GBRL2_g13156.t1	GABARAPL2
scaffold_30	30160946	30173131	GCSH_g13184.t1	GCSH
scaffold_30	19014155	19025924	GFOD2_g13057.t1	GFOD2
scaffold_30	19012620	19059297	MSTRG.12881.1	GFOD2
scaffold_30	28593853	28595594	MSTRG.13019.1	GLCE
scaffold_30	368537	401702	MSTRG.12731.1	GPT2
scaffold_30	34032735	34091247	GSE1_g13219.t1	GSE1
scaffold_30	34080224	34090577	MSTRG.13072.3	GSE1
scaffold_30	24653417	24807348	GSLG1_g13140.t1	GLG1
scaffold_30	20196425	20206586	MSTRG.12912.3	HAS3
scaffold_30	3291175	3340052	HEAT3_g12911.t1	HEATR3
scaffold_30	9880126	9891183	HERP1_g12963.t1	HERPUD1
scaffold_30	9880037	9891183	MSTRG.12798.1	HERPUD1
scaffold_30	28239088	28239289	MSTRG.13012.1	HIST2H2BE
scaffold_30	37924526	37926736	HIUH_g13294.t1	URAH

scaffold_30	22887779	22888029	MSTRG.12940.1	HP
scaffold_30	32546274	32550711	MSTRG.13054.1	HSBP1
scaffold_30	32810559	32818361	HSDL1_g13201.t1	HSDL1
scaffold_30	18597000	18602285	HSF4_g13036.t1	HSF4
scaffold_30	18605170	18606853	HSF4_g13036.t2	HSF4
scaffold_30	18596449	18607373	MSTRG.12868.1	HSF4
scaffold_30	18598581	18602285	MSTRG.12868.4	HSF4
scaffold_30	18597000	18607373	MSTRG.12868.2	HSF4
scaffold_30	20199609	20205329	HYAS3_g13086.t1	HYAS3
scaffold_30	23703407	24017539	HYDIN_g13126.t1	HYDIN
scaffold_30	24150866	24159761	IL34_g13129.t1	IL34
scaffold_30	6906579	6908896	IRX3_g12932.t1	IRX3
scaffold_30	7479698	7484523	MSTRG.12780.1	IRX5
scaffold_30	7481565	7484523	IRX5_g12933.t1	IRX5
scaffold_30	7824388	7829342	IRX6_g12936.t1	IRX6
scaffold_30	23003134	23013670	IST1_g13112.t1	IST1
scaffold_30	23077132	23088009	IST1_g13116.t1	IST1
scaffold_30	23001913	23029465	MSTRG.12943.1	IST1
scaffold_30	33576126	33594511	K0513_g13215.t1	KIAA0513
scaffold_30	25596376	25612974	MSTRG.12990.1	KARS
scaffold_30	10568470	10590136	MSTRG.12818.1	KATNB1
scaffold_30	9566743	9574007	MSTRG.12795.1	KBTBD11
scaffold_30	9566743	9574007	MSTRG.12795.3	KBTBD11
scaffold_30	9568226	9574256	MSTRG.12796.1	KBTBD11
scaffold_30	18607676	18614763	MSTRG.12869.1	MATCAP1
scaffold_30	18607676	18610269	MSTRG.12869.2	KIAA0895L
scaffold_30	18607676	18614763	MSTRG.12869.3	KIAA0895L
scaffold_30	18611744	18614350	MSTRG.12869.5	KIAA0895L
scaffold_30	10591822	10622598	KIFC3_g12983.t1	KIFC3
scaffold_30	18062024	18087494	KITM_g13015.t1	TK2
scaffold_30	35788725	35838492	KLDC4_g13243.t1	KLDC4
scaffold_30	33222793	33233599	KLH36_g13211.t1	KLHL36
scaffold_30	35788721	35838492	MSTRG.13084.1	KLHDC4
scaffold_30	33233958	33234177	MSTRG.13064.1	KLHL36
scaffold_30	33235810	33236011	MSTRG.13066.1	KLHL36
scaffold_30	19201042	19219200	KPSH1_g13064.t1	KPSH1
scaffold_30	10569959	10590136	KTNB1_g12982.t1	KTNB1
scaffold_30	35884790	35918910	LAT1_g13245.t1	LAT1
scaffold_30	25200537	25205211	LDHD_g13148.t1	LDHD
scaffold_30	25198820	25205211	MSTRG.12979.2	LDHD
scaffold_30	37924108	37927613	MSTRG.13128.2	LOC101401690
scaffold_30	37924355	37927613	MSTRG.13128.3	LOC101401690
scaffold_30	1778951	1885665	LONP2_g12902.t1	LONP2
scaffold_30	1577945	1600433	MSTRG.12738.2	LONP2
scaffold_30	28937235	28942734	MAF_g13175.t1	MAF

scaffold_30	28924351	28942734	MSTRG.13024.1	MAF
scaffold_30	32751600	32794021	MBTP1_g13200.t1	MBTPS1
scaffold_30	32750454	32806258	MSTRG.13059.1	MBTPS1
scaffold_30	33081287	33092977	MEAK7_g13209.t1	MEAK7
scaffold_30	35520170	35531654	MLP3B_g13239.t1	MLP3B
scaffold_30	32623506	32628477	MSTRG.13055.1	MLYCD
scaffold_30	32623793	32640036	MSTRG.13055.3	MLYCD
scaffold_30	26885894	26894260	MON1B_g13163.t1	MON1B
scaffold_30	26885392	26888337	MSTRG.12992.2	MON1B
scaffold_30	26885334	26909056	MSTRG.12992.1	MON1B
scaffold_30	31056535	31075128	MPH6_g13193.t1	MPHOSPH6
scaffold_30	1353814	1354143	MRP9_g12898.t1	MRP9
scaffold_30	37831647	37832597	MSHR_g13285.t1	MSHR
scaffold_30	9562067	9562962	MSTRG.12787.1	MT1A
scaffold_30	9656186	9659803	MSTRG.12792.1	MT1A
scaffold_30	9658063	9659803	MSTRG.12792.2	MT1A
scaffold_30	9658063	9659803	MSTRG.12792.3	MT1A
scaffold_30	9642235	9644004	MSTRG.12794.1	MT1A
scaffold_30	9642235	9644004	MSTRG.12794.2	MT1A
scaffold_30	9566743	9568442	MSTRG.12795.2	MT1A
scaffold_30	9572294	9574007	MSTRG.12795.4	MT1A
scaffold_30	9572297	9574007	MSTRG.12795.5	MT1A
scaffold_30	9637946	9639614	MT2_g12960.t1	MT2A
scaffold_30	9549710	9550984	MT3_g12958.t1	MT3
scaffold_30	26984701	27110364	MSTRG.12994.2	MTERF1
scaffold_30	26983863	27110364	MSTRG.12994.1	MTERF1
scaffold_30	34810055	34835145	MSTRG.13080.2	MTHFSD
scaffold_30	34811528	34829982	MSTRG.13080.3	MTHFSD
scaffold_30	34800024	34835145	MTHSD_g13229.t1	MTHFSD
scaffold_30	24127538	24149843	MSTRG.12960.3	MTSS1L
scaffold_30	24127546	24149843	MTSS2_g13128.t1	MTSS2
scaffold_30	36692490	36700222	MVD1_g13255.t1	MVD
scaffold_30	126398	173463	MSTRG.12730.2	MYLK3
scaffold_30	125646	227765	MSTRG.12730.1	MYLK3
scaffold_30	127720	315493	MSTRG.12730.3	MYLK3
scaffold_30	2048080	2091876	N4BP1_g12905.t1	N4BP1
scaffold_30	887683	887892	MSTRG.12736.1	NCKAP1
scaffold_30	11213437	11213751	MSTRG.12829.1	NDRG4
scaffold_30	11174049	11213127	NDRG4_g12996.t1	NDRG4
scaffold_30	32683752	32712986	NECA2_g13198.t1	NECAB2
scaffold_30	3271517	3283567	NEPR1_g12910.t1	NEPR1
scaffold_30	495839	556768	MSTRG.12733.1	NETO2
scaffold_30	495971	556768	MSTRG.12733.2	NETO2
scaffold_30	500399	556768	NETO2_g12895.t1	NETO2
scaffold_30	20573729	20695885	MSTRG.12929.2	NFAT5

scaffold_30	20574036	20695885	MSTRG.12929.4	NFAT5
scaffold_30	20573729	20695885	MSTRG.12929.1	NFAT5
scaffold_30	19340719	19465691	MSTRG.12898.1	NFATC3
scaffold_30	20390021	20395193	NIP7_g13093.t1	NIP7
scaffold_30	3746300	3775046	NKD1_g12917.t1	NKD1
scaffold_30	3747526	3775046	NKD1_g12917.t2	NKD1
scaffold_30	20745896	20756130	NOB1_g13101.t1	NOB1
scaffold_30	3862523	3862734	MSTRG.12761.1	NOD2
scaffold_30	3834083	3862474	NOD2_g12919.t1	NOD2
scaffold_30	18605006	18605893	MSTRG.12868.5	NOL3
scaffold_30	1568323	1568688	ADHE_g12899.t1	ADHE_g12899.t1
scaffold_30	10450417	10506928	AGRG1_g12979.t1	AGRG1_g12979.t1
scaffold_30	10165337	10172353	AR2BP_g12967.t1	AR2BP_g12967.t1
scaffold_30	10165283	10172353	AR2BP_g12967.t2	AR2BP_g12967.t2
scaffold_30	30958238	30958819	DUT_g13191.t1	DUT_g13191.t1
scaffold_30	30962384	30963871	FV1_g13192.t1	FV1_g13192.t1
scaffold_30	37162791	37164155	FV1_g13270.t1	FV1_g13270.t1
scaffold_30	4209	4615	MSTRG.12725.1	MSTRG.12725.1
scaffold_30	261589	315493	MSTRG.12730.6	MSTRG.12730.6
scaffold_30	277835	315493	MSTRG.12730.7	MSTRG.12730.7
scaffold_30	536983	550059	MSTRG.12733.4	MSTRG.12733.4
scaffold_30	1100972	1101173	MSTRG.12737.1	MSTRG.12737.1
scaffold_30	1566767	1628491	MSTRG.12738.1	MSTRG.12738.1
scaffold_30	1704201	1704403	MSTRG.12740.1	MSTRG.12740.1
scaffold_30	1692103	1692303	MSTRG.12742.1	MSTRG.12742.1
scaffold_30	1705054	1705281	MSTRG.12743.1	MSTRG.12743.1
scaffold_30	2043594	2043944	MSTRG.12744.1	MSTRG.12744.1
scaffold_30	2044401	2046171	MSTRG.12745.1	MSTRG.12745.1
scaffold_30	1794491	1882806	MSTRG.12747.2	MSTRG.12747.2
scaffold_30	3097040	3097242	MSTRG.12750.1	MSTRG.12750.1
scaffold_30	3431204	3431424	MSTRG.12755.1	MSTRG.12755.1
scaffold_30	3401270	3406185	MSTRG.12756.2	MSTRG.12756.2
scaffold_30	3494339	3532672	MSTRG.12758.1	MSTRG.12758.1
scaffold_30	3495366	3505756	MSTRG.12758.2	MSTRG.12758.2
scaffold_30	3521795	3532672	MSTRG.12758.4	MSTRG.12758.4
scaffold_30	6164833	6165055	MSTRG.12763.1	MSTRG.12763.1
scaffold_30	5968698	6164349	MSTRG.12764.1	MSTRG.12764.1
scaffold_30	5994118	6164349	MSTRG.12764.3	MSTRG.12764.3
scaffold_30	6771856	6772223	MSTRG.12769.1	MSTRG.12769.1
scaffold_30	6790790	6791146	MSTRG.12770.1	MSTRG.12770.1
scaffold_30	6815395	6815634	MSTRG.12772.1	MSTRG.12772.1
scaffold_30	7450314	7450518	MSTRG.12776.1	MSTRG.12776.1
scaffold_30	7467933	7479278	MSTRG.12779.1	MSTRG.12779.1
scaffold_30	9642237	9652126	MSTRG.12794.3	MSTRG.12794.3
scaffold_30	9702257	9811089	MSTRG.12797.1	MSTRG.12797.1

scaffold_30	9893864	9894120	MSTRG.12802.1	MSTRG.12802.1
scaffold_30	10034065	10079750	MSTRG.12803.1	MSTRG.12803.1
scaffold_30	10165137	10172353	MSTRG.12806.1	MSTRG.12806.1
scaffold_30	10172985	10173204	MSTRG.12808.1	MSTRG.12808.1
scaffold_30	10309641	10325196	MSTRG.12809.1	MSTRG.12809.1
scaffold_30	10507376	10507604	MSTRG.12814.1	MSTRG.12814.1
scaffold_30	11038460	11038668	MSTRG.12825.1	MSTRG.12825.1
scaffold_30	11474786	11475000	MSTRG.12830.1	MSTRG.12830.1
scaffold_30	16262608	16262817	MSTRG.12835.1	MSTRG.12835.1
scaffold_30	11553464	11553673	MSTRG.12836.1	MSTRG.12836.1
scaffold_30	16535625	16535851	MSTRG.12837.1	MSTRG.12837.1
scaffold_30	11722292	11722871	MSTRG.12838.1	MSTRG.12838.1
scaffold_30	17496221	17496446	MSTRG.12839.1	MSTRG.12839.1
scaffold_30	13886978	13887209	MSTRG.12841.1	MSTRG.12841.1
scaffold_30	14010177	14010381	MSTRG.12842.1	MSTRG.12842.1
scaffold_30	11361840	11376209	MSTRG.12846.1	MSTRG.12846.1
scaffold_30	11361840	11376209	MSTRG.12846.2	MSTRG.12846.2
scaffold_30	11361955	11376209	MSTRG.12846.3	MSTRG.12846.3
scaffold_30	18236998	18237259	MSTRG.12848.1	MSTRG.12848.1
scaffold_30	18322486	18323038	MSTRG.12852.1	MSTRG.12852.1
scaffold_30	18419631	18432995	MSTRG.12860.1	MSTRG.12860.1
scaffold_30	18420088	18432995	MSTRG.12860.2	MSTRG.12860.2
scaffold_30	18553982	18582640	MSTRG.12862.1	MSTRG.12862.1
scaffold_30	18553982	18582640	MSTRG.12862.2	MSTRG.12862.2
scaffold_30	18652213	18652438	MSTRG.12865.1	MSTRG.12865.1
scaffold_30	18885778	18885993	MSTRG.12874.1	MSTRG.12874.1
scaffold_30	19192175	19219200	MSTRG.12887.1	MSTRG.12887.1
scaffold_30	19246019	19254029	MSTRG.12892.5	MSTRG.12892.5
scaffold_30	19324894	19339993	MSTRG.12896.1	MSTRG.12896.1
scaffold_30	19465879	19473481	MSTRG.12899.1	MSTRG.12899.1
scaffold_30	19473731	19477017	MSTRG.12900.1	MSTRG.12900.1
scaffold_30	19495454	19517327	MSTRG.12901.1	MSTRG.12901.1
scaffold_30	19489874	19490719	MSTRG.12903.1	MSTRG.12903.1
scaffold_30	19545281	19556689	MSTRG.12905.1	MSTRG.12905.1
scaffold_30	19545306	19591862	MSTRG.12905.2	MSTRG.12905.2
scaffold_30	19843973	19844179	MSTRG.12907.1	MSTRG.12907.1
scaffold_30	19844489	19887998	MSTRG.12908.2	MSTRG.12908.2
scaffold_30	20003615	20206586	MSTRG.12912.1	MSTRG.12912.1
scaffold_30	20256398	20256619	MSTRG.12913.1	MSTRG.12913.1
scaffold_30	20218491	20249973	MSTRG.12915.1	MSTRG.12915.1
scaffold_30	20659318	20677367	MSTRG.12931.1	MSTRG.12931.1
scaffold_30	20904663	20904864	MSTRG.12933.1	MSTRG.12933.1
scaffold_30	21989067	22234533	MSTRG.12938.1	MSTRG.12938.1
scaffold_30	23029563	23030958	MSTRG.12944.1	MSTRG.12944.1
scaffold_30	23086033	23086242	MSTRG.12947.1	MSTRG.12947.1

scaffold_30	23175617	23244767	MSTRG.12950.1	MSTRG.12950.1
scaffold_30	23523959	23533141	MSTRG.12954.2	MSTRG.12954.2
scaffold_30	23521349	23521577	MSTRG.12955.1	MSTRG.12955.1
scaffold_30	24324603	24373110	MSTRG.12957.1	MSTRG.12957.1
scaffold_30	24324603	24373110	MSTRG.12957.2	MSTRG.12957.2
scaffold_30	24639721	24640024	MSTRG.12967.1	MSTRG.12967.1
scaffold_30	24649614	24649914	MSTRG.12968.1	MSTRG.12968.1
scaffold_30	24652962	24807348	MSTRG.12971.1	MSTRG.12971.1
scaffold_30	25198668	25205211	MSTRG.12979.1	MSTRG.12979.1
scaffold_30	25222042	25242616	MSTRG.12981.1	MSTRG.12981.1
scaffold_30	25222071	25242616	MSTRG.12981.2	MSTRG.12981.2
scaffold_30	25569130	25569383	MSTRG.12987.1	MSTRG.12987.1
scaffold_30	25830945	25831173	MSTRG.12989.1	MSTRG.12989.1
scaffold_30	27158982	27159182	MSTRG.12996.1	MSTRG.12996.1
scaffold_30	28082464	28082686	MSTRG.12998.1	MSTRG.12998.1
scaffold_30	28098035	28098448	MSTRG.12999.1	MSTRG.12999.1
scaffold_30	28101753	28101966	MSTRG.13000.1	MSTRG.13000.1
scaffold_30	28113589	28113801	MSTRG.13001.1	MSTRG.13001.1
scaffold_30	28150007	28150211	MSTRG.13002.1	MSTRG.13002.1
scaffold_30	28132267	28133887	MSTRG.13003.1	MSTRG.13003.1
scaffold_30	28163712	28163921	MSTRG.13004.1	MSTRG.13004.1
scaffold_30	28194009	28194234	MSTRG.13005.1	MSTRG.13005.1
scaffold_30	28228091	28228308	MSTRG.13010.1	MSTRG.13010.1
scaffold_30	28231937	28232156	MSTRG.13011.1	MSTRG.13011.1
scaffold_30	28283396	28283599	MSTRG.13013.1	MSTRG.13013.1
scaffold_30	28301810	28302087	MSTRG.13014.1	MSTRG.13014.1
scaffold_30	28319280	28319496	MSTRG.13015.1	MSTRG.13015.1
scaffold_30	28559825	28560035	MSTRG.13017.1	MSTRG.13017.1
scaffold_30	28733212	28733528	MSTRG.13020.1	MSTRG.13020.1
scaffold_30	28753048	28753266	MSTRG.13021.1	MSTRG.13021.1
scaffold_30	28754349	28754563	MSTRG.13022.1	MSTRG.13022.1
scaffold_30	28853025	28853256	MSTRG.13023.1	MSTRG.13023.1
scaffold_30	30408407	30408677	MSTRG.13038.1	MSTRG.13038.1
scaffold_30	30410244	30410532	MSTRG.13040.1	MSTRG.13040.1
scaffold_30	30351532	30351737	MSTRG.13042.1	MSTRG.13042.1
scaffold_30	30395959	30396176	MSTRG.13043.1	MSTRG.13043.1
scaffold_30	30405010	30406398	MSTRG.13045.1	MSTRG.13045.1
scaffold_30	30407505	30407871	MSTRG.13046.1	MSTRG.13046.1
scaffold_30	30410868	30411171	MSTRG.13047.1	MSTRG.13047.1
scaffold_30	30411676	30413604	MSTRG.13048.1	MSTRG.13048.1
scaffold_30	31818303	31818527	MSTRG.13053.1	MSTRG.13053.1
scaffold_30	32630489	32630768	MSTRG.13056.1	MSTRG.13056.1
scaffold_30	32671217	32682327	MSTRG.13057.1	MSTRG.13057.1
scaffold_30	33220535	33233599	MSTRG.13063.1	MSTRG.13063.1
scaffold_30	33234914	33235127	MSTRG.13065.1	MSTRG.13065.1

scaffold_30	33237082	33272204	MSTRG.13067.1	MSTRG.13067.1
scaffold_30	33594878	33595148	MSTRG.13070.1	MSTRG.13070.1
scaffold_30	33599349	33599571	MSTRG.13071.1	MSTRG.13071.1
scaffold_30	34167052	34167263	MSTRG.13073.1	MSTRG.13073.1
scaffold_30	34171459	34171923	MSTRG.13074.1	MSTRG.13074.1
scaffold_30	34169728	34169944	MSTRG.13075.1	MSTRG.13075.1
scaffold_30	36147057	36147716	MSTRG.13086.1	MSTRG.13086.1
scaffold_30	36018798	36106193	MSTRG.13088.5	MSTRG.13088.5
scaffold_30	36018798	36106193	MSTRG.13088.6	MSTRG.13088.6
scaffold_30	36018851	36106193	MSTRG.13088.7	MSTRG.13088.7
scaffold_30	36772007	36772234	MSTRG.13099.1	MSTRG.13099.1
scaffold_30	36772596	36772817	MSTRG.13100.1	MSTRG.13100.1
scaffold_30	37591478	37593498	MSTRG.13107.1	MSTRG.13107.1
scaffold_30	37612890	37613542	MSTRG.13110.1	MSTRG.13110.1
scaffold_30	37648517	37667083	MSTRG.13118.2	MSTRG.13118.2
scaffold_30	37648563	37666510	MSTRG.13118.3	MSTRG.13118.3
scaffold_30	37648564	37667083	MSTRG.13118.4	MSTRG.13118.4
scaffold_30	37827368	37827573	MSTRG.13120.1	MSTRG.13120.1
scaffold_30	37829618	37830584	MSTRG.13122.1	MSTRG.13122.1
scaffold_30	37932669	37936086	MSTRG.13124.1	MSTRG.13124.1
scaffold_30	37982734	37996608	MSTRG.13126.1	MSTRG.13126.1
scaffold_30	37887253	37889370	MSTRG.13129.11	MSTRG.13129.11
scaffold_30	37895525	37895750	MSTRG.13133.1	MSTRG.13133.1
scaffold_30	37897364	37897583	MSTRG.13134.1	MSTRG.13134.1
scaffold_30	20701748	20714320	NQO1_g13100.t1	NQO1
scaffold_30	27354179	27366290	NUDT7_g13166.t1	NUDT7
scaffold_30	9722871	9811089	NUP93_g12961.t1	NUP93
scaffold_30	19155291	19172593	MSTRG.12880.1	NUTF2
scaffold_30	9438755	9462584	OGFD1_g12956.t1	OGFOD1
scaffold_30	9438689	9462584	OGFD1_g12956.t2	OGFOD1
scaffold_30	9438689	9474783	MSTRG.12789.1	OGFOD1
scaffold_30	116077	124370	MSTRG.12729.1	ORC6
scaffold_30	116426	124370	ORC6_g12889.t1	ORC6
scaffold_30	32675497	32682327	OSGI1_g13197.t2	OSGI1
scaffold_30	23426391	23429043	MSTRG.12951.6	PAAF1
scaffold_30	3417913	3418728	MSTRG.12756.3	TENT4B
scaffold_30	3355578	3356063	PAPD5_g12912.t1	TENT4B
scaffold_30	3374710	3421870	PAPD5_g12913.t1	TENT4B
scaffold_30	19001368	19003030	PAR6A_g13054.t1	PAR6A
scaffold_30	7980897	8049960	PCAT2_g12939.t1	PCAT2
scaffold_30	20379690	20389743	MSTRG.12919.1	PDF
scaffold_30	18379893	18381216	MSTRG.12855.1	PDP2
scaffold_30	18381491	18381806	MSTRG.12856.1	PDP2
scaffold_30	18377758	18379347	PDP2_g13025.t1	PDP2
scaffold_30	18494902	18546787	PEBB_g13031.t1	CBFB

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scaffold_30	35979856	36008890	PHAF1_g13247.t1	PHAF1
scaffold_30	838153	882227	MSTRG.12735.1	PHKB
scaffold_30	838178	881036	MSTRG.12735.2	PHKB
scaffold_30	838178	874818	MSTRG.12735.3	PHKB
scaffold_30	23175636	23241569	PHLP2_g13118.t1	PHLP2
scaffold_30	36748910	36814674	PIEZ1_g13259.t1	PIEZ1
scaffold_30	36748631	36752697	MSTRG.13098.1	PIEZO1
scaffold_30	36749351	36751771	MSTRG.13098.3	PIEZO1
scaffold_30	18699245	18707207	PKHG4_g13043.t1	PKHG4
scaffold_30	28333929	28334323	MSTRG.13016.1	PLEKHA6
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scaffold_30	19223976	19226607	PSB10_g13066.t1	PSMB10
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scaffold_30	20907111	20915371	PSMD7_g13103.t1	PSMD7
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scaffold_30	24827587	24861754	RFWD3_g13142.t1	RFWD3
scaffold_30	24825297	24867545	MSTRG.12976.1	RFWD3
scaffold_30	24825297	24867545	MSTRG.12976.2	RFWD3
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scaffold_30	18909867	18912415	MSTRG.12873.1	RIPOR1
scaffold_30	18913157	18921476	RIPR1_g13050.t1	RIPR1
scaffold_30	37512840	37515124	RL13_g13274.t1	RPL13
scaffold_30	37512819	37515124	RL13_g13274.t2	RPL13
scaffold_30	24773127	24773426	RL36_g13141.t1	RPL36
scaffold_30	27522359	27522937	RL9_g13169.t1	RPL9
scaffold_30	36731243	36739926	RN166_g13257.t1	RNF166
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scaffold_30	6314751	6400934	MSTRG.12768.1	RPGRIP1L
scaffold_30	6315012	6411765	MSTRG.12768.2	RPGRIP1L
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scaffold_30	10130923	10160060	RSPRY_g12966.t1	RSPRY1
scaffold_30	10118070	10161466	MSTRG.12805.1	RSPRY1
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scaffold_30	4242714	4255809	SALL1_g12921.t1	SALL1
scaffold_30	8093683	8135079	SC6A2_g12941.t1	SLC6A2
scaffold_30	11216032	11219334	MSTRG.12833.1	SETD6
scaffold_30	11216086	11219334	MSTRG.12833.2	SETD6
scaffold_30	24218411	24269882	MSTRG.12953.1	SF3B3
scaffold_30	24218411	24269882	MSTRG.12953.2	SF3B3
scaffold_30	24218460	24269882	MSTRG.12953.3	SF3B3
scaffold_30	24218962	24265124	SF3B3_g13130.t1	SF3B3
scaffold_30	19406	46688	SHCBP_g12887.t1	SHCBP1
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scaffold_30	1890800	1891666	SIAH1_g12903.t1	SIAH1
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scaffold_30	19537414	19545198	MSTRG.12904.1	SLC7A6OS
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scaffold_30	20258483	20354140	MSTRG.12916.3	SNTB2
scaffold_30	20352291	20361844	MSTRG.12917.1	SNTB2
scaffold_30	20258241	20354140	SNTB2_g13089.t1	SNTB2
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scaffold_30	37614102	37616979	MSTRG.13113.1	SPATA33
scaffold_30	37482694	37507365	MSTRG.13108.3	SPG7
scaffold_30	37463786	37507365	SPG7_g13273.t1	SPG7
scaffold_30	37463645	37507365	SPG7_g13273.t2	SPG7
scaffold_30	37746119	37779805	SPIR2_g13283.t1	SPIR2
scaffold_30	5818	6105	MSTRG.12726.1	SPIRE1
scaffold_30	37613818	37614033	SPT33_g13277.t1	SPATA33
scaffold_30	10475141	10494070	MSTRG.12816.2	SUN1
scaffold_30	25596694	25612974	SYK_g13158.t1	SYK
scaffold_30	25484527	25499740	T170A_g13153.t1	T170A
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scaffold_30	32852852	32862093	MSTRG.13060.2	TAF1C
scaffold_30	32853343	32862093	MSTRG.13060.3	TAF1C
scaffold_30	32853416	32859599	TAF1C_g13203.t1	TAF1C
scaffold_30	37835901	37844649	TBB3_g13286.t1	TUBB3
scaffold_30	37783746	37826669	TCF25_g13284.t1	TCF25

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scaffold_30	20401870	20426611	MSTRG.12923.2	TERF2
scaffold_30	20402750	20426611	TERF2_g13095.t1	TERF2
scaffold_30	6903217	6906495	TFE2_g12931.t1	TFE2
scaffold_30	19150844	19152447	THA11_g13061.t1	THAP11
scaffold_30	19167581	19172593	THA11_g13061.t2	THAP11
scaffold_30	19150492	19152447	MSTRG.12882.1	THAP11
scaffold_30	38134749	38134993	MSTRG.13125.1	THAP4
scaffold_30	25476177	25477946	TIGD1_g13152.t1	TIGD1
scaffold_30	26874736	26884006	TIMP1_g13162.t2	TIMP1
scaffold_30	33078273	33097716	MSTRG.13062.1	TLDC1
scaffold_30	33079619	33084485	MSTRG.13062.2	TLDC1
scaffold_30	33090483	33091766	MSTRG.13062.4	TLDC1
scaffold_30	18653154	18655471	TM208_g13040.t1	TM208
scaffold_30	25519665	25541346	TM231_g13154.t1	TMEM231
scaffold_30	10349548	10361765	MSTRG.12812.1	TMCC3
scaffold_30	20393366	20399106	TMED6_g13094.t1	TMED6
scaffold_30	11546802	11547024	MSTRG.12831.1	TMED8
scaffold_30	25481974	25499740	MSTRG.12984.1	TMEM170A
scaffold_30	25517989	25541346	MSTRG.12985.1	TMEM231
scaffold_30	9418367	9419831	MSTRG.12786.1	TNFRSF9
scaffold_30	18797619	18798432	ZDHC1_g13046.t1	TPPP3
scaffold_30	18797044	18821650	MSTRG.12883.1	TPPP3
scaffold_30	18585153	18592201	MSTRG.12864.1	TRADD
scaffold_30	18587088	18589086	TRADD_g13034.t1	TRADD
scaffold_30	36876409	36880176	MSTRG.13103.1	TRAPPC2L
scaffold_30	36876421	36880176	MSTRG.13103.2	TRAPPC2L
scaffold_30	36876491	36880176	MSTRG.13103.4	TRAPPC2L
scaffold_30	25198917	25205211	MSTRG.12979.3	TRPC5
scaffold_30	11122046	11122246	MSTRG.12827.1	TTLL7
scaffold_30	37834260	37834467	MSTRG.13123.1	TUBB3
scaffold_30	19126262	19140695	TXIP1_g13059.t1	TSNAXIP1
scaffold_30	22872639	22881331	MSTRG.12942.1	TXNL4B
scaffold_30	22872854	22881331	MSTRG.12942.2	TXNL4B
scaffold_30	33258945	33330809	UBP10_g13212.t1	USP10
scaffold_30	34912366	34912668	UBP13_g13232.t1	USP13
scaffold_30	18321732	18344324	ULA1_g13022.t1	ULA1
scaffold_30	10774514	10789995	USB1_g12987.t1	USB1
scaffold_30	18438074	18438279	MSTRG.12858.1	USP6NL
scaffold_30	20219641	20249272	UTP4_g13088.t1	UTP4
scaffold_30	18840246	18878548	VA0D1_g13048.t1	VA0D1
scaffold_30	24023656	24125890	VAC14_g13127.t1	VAC14
scaffold_30	24023384	24125890	MSTRG.12962.1	VAC14
scaffold_30	24049149	24088953	MSTRG.12962.3	VAC14

scaffold_30	24111604	24125890	MSTRG.12962.4	VAC14
scaffold_30	27466048	27483556	VAT1L_g13168.t1	VAT1L
scaffold_30	37635903	37647363	VP9D1_g13280.t1	VP9D1
scaffold_30	92756	115880	VPS35_g12888.t1	VPS35
scaffold_30	20365696	20379920	MSTRG.12918.1	VPS4A
scaffold_30	20365696	20378587	MSTRG.12918.2	VPS4A
scaffold_30	20365868	20378587	VPS4A_g13090.t1	VPS4A
scaffold_30	24998535	25086882	WDR59_g13146.t1	WDR59
scaffold_30	24998123	25086882	MSTRG.12977.1	WDR59
scaffold_30	27648083	28018766	MSTRG.13006.1	WWOX
scaffold_30	27648162	28077535	WWOX_g13172.t1	WWOX
scaffold_30	20778965	20894309	WWP2_g13102.t1	WWP2
scaffold_30	10278484	10279770	X3CL1_g12971.t1	CX3CL1
scaffold_30	19495756	19534110	YLAT2_g13077.t1	YLAT2
scaffold_30	6248924	6250143	ZBT38_g12928.t1	ZBTB38
scaffold_30	37914866	37917829	MSTRG.13127.2	ZBTB10
scaffold_30	28227139	28227366	MSTRG.13008.1	ZBTB34
scaffold_30	36606134	36670014	MSTRG.13092.1	ZC3H18
scaffold_30	36606163	36670014	MSTRG.13092.2	ZC3H18
scaffold_30	36606174	36670014	MSTRG.13092.3	ZC3H18
scaffold_30	36661688	36666215	MSTRG.13092.5	ZC3H18
scaffold_30	35535092	35602943	MSTRG.13083.2	ZCCHC14
scaffold_30	35534270	35602943	MSTRG.13083.1	ZCCHC14
scaffold_30	35538866	35602943	ZCH14_g13240.t1	ZCCHC14
scaffold_30	36613109	36670014	ZCH18_g13253.t1	ZC3H18
scaffold_30	18802145	18813946	ZDHC1_g13046.t2	ZDHHC1
scaffold_30	33502000	33512828	ZDHC7_g13214.t1	ZDHHC7
scaffold_30	18801885	18821650	MSTRG.12883.3	ZDHHC1
scaffold_30	33499835	33527898	MSTRG.13069.1	ZDHHC7
scaffold_30	33499843	33527898	MSTRG.13069.2	ZDHHC7
scaffold_30	33500113	33512190	MSTRG.13069.3	ZDHHC7
scaffold_30	22075756	22233299	ZFHX3_g13105.t1	ZFHX3
scaffold_30	22075642	22233299	ZFHX3_g13105.t2	ZFHX3
scaffold_30	20573826	20574464	ZFHX4_g13098.t1	ZFHX4
scaffold_30	25239087	25242616	ZFP1_g13149.t1	ZFP1
scaffold_30	19756142	19775769	MSTRG.12906.1	ZFP90
scaffold_30	36487461	36520255	MSTRG.13089.2	ZFPM1
scaffold_30	22363434	22364003	ZFY26_g13106.t1	ZFYVE26
scaffold_30	37648458	37667083	ZN276_g13281.t1	ZNF276
scaffold_30	10769199	10771365	ZN319_g12986.t1	ZNF319
scaffold_30	2825021	3144833	ZN423_g12909.t1	ZNF423
scaffold_30	36436507	36447918	ZN469_g13250.t1	ZNF469
scaffold_30	23047825	23060755	ZN821_g13113.t1	ZNF821
scaffold_30	23415408	23429043	MSTRG.12951.1	ZNF19
scaffold_30	23418987	23447214	MSTRG.12951.2	ZNF19

scaffold_30	23418987	23429043	MSTRG.12951.3	ZNF19
scaffold_30	23418987	23447214	MSTRG.12951.4	ZNF19
scaffold_30	23419081	23429043	MSTRG.12951.5	ZNF19
scaffold_30	23438444	23442347	MSTRG.12951.7	ZNF19
scaffold_30	23454460	23468661	MSTRG.12959.1	ZNF23
scaffold_30	10767566	10774300	MSTRG.12820.1	ZNF319
scaffold_30	10767566	10774300	MSTRG.12820.2	ZNF319
scaffold_30	9857559	9857774	MSTRG.12800.1	ZNF444
scaffold_30	7466101	7466312	MSTRG.12778.1	ZNF484
scaffold_30	23043800	23060755	MSTRG.12948.1	ZNF821
scaffold_30	21972053	21972280	MSTRG.12936.1	ZNF850
scaffold_30	25096144	25197255	MSTRG.12978.1	ZNRF1
scaffold_30	25096893	25194803	ZNRF1_g13147.t1	ZNRF1
scaffold_31	4479923	4480146	MSTRG.13162.1	PALM2AKAP2
scaffold_31	13464875	13465158	MSTRG.13201.1	ANKRD45
scaffold_31	20663433	20698949	ARMC1_g13422.t1	ARMC1
scaffold_31	20663412	20698949	ARMC1_g13422.t2	ARMC1
scaffold_31	20662357	20698949	MSTRG.13239.2	ARMC1
scaffold_31	24197936	24346205	MSTRG.13251.5	ASPH
scaffold_31	24182096	24209963	MSTRG.13252.1	ASPH
scaffold_31	24126996	24223912	MSTRG.13251.1	B3GALNT1
scaffold_31	12644743	12644969	MSTRG.13194.1	BCAT1
scaffold_31	19051484	19202435	BIG1_g13401.t1	ARFGEF1
scaffold_31	3604362	3609658	MSTRG.13147.1	RBIS
scaffold_31	32897307	32968208	MSTRG.13297.2	SPATA31G1
scaffold_31	25407316	25497443	MSTRG.13255.1	CA8
scaffold_31	25459145	25485254	MSTRG.13255.3	CA8
scaffold_31	3539737	3566236	CAH13_g13331.t2	CA13
scaffold_31	3364726	3379223	CAH2_g13328.t1	CA2
scaffold_31	28830704	28833199	CHCH7_g13451.t1	CHCHD7
scaffold_31	28829448	28836115	MSTRG.13269.1	CHCHD7
scaffold_31	28829448	28836115	MSTRG.13269.2	CHCHD7
scaffold_31	24889852	24968886	MSTRG.13256.1	CHD7
scaffold_31	24890554	25013224	MSTRG.13256.2	CHD7
scaffold_31	24891304	25071274	MSTRG.13256.3	CHD7
scaffold_31	24891304	25070401	MSTRG.13256.4	CHD7
scaffold_31	6579024	6602657	CHM4C_g13339.t1	CHMP4C
scaffold_31	19362216	19378433	MSTRG.13222.1	COPS5
scaffold_31	26988978	26997184	CP7A1_g13440.t1	CYP7A1
scaffold_31	26988909	26997184	CP7A1_g13440.t2	CYP7A1
scaffold_31	32879633	32879853	MSTRG.13296.1	CPEB2
scaffold_31	2530443	2560340	CPNE3_g13319.t1	CPNE3
scaffold_31	12419200	12478904	CRLD1_g13366.t1	CRISPLD1
scaffold_31	19362334	19378581	CSN5_g13403.t1	COPS5
scaffold_31	19205494	19351096	CSPP1_g13402.t1	CSPP1

scaffold_31	19204184	19360400	MSTRG.13219.1	CSPP1
scaffold_31	19204211	19360400	MSTRG.13219.2	CSPP1
scaffold_31	19205494	19360400	MSTRG.13219.3	CSPP1
scaffold_31	19248710	19250956	MSTRG.13220.1	CSPP1
scaffold_31	778881	810118	CYB_g13295.t1	CYTB
scaffold_31	28698392	28698601	MSTRG.13272.1	DCT
scaffold_31	3610329	3639358	E2F5_g13333.t1	E2F5
scaffold_31	3609725	3614438	MSTRG.13148.1	E2F5
scaffold_31	13386832	13407460	ELOC_g13373.t1	ELOC
scaffold_31	13386877	13407460	MSTRG.13198.2	ELOC
scaffold_31	15591369	15746108	EYA1_g13388.t1	EYA1
scaffold_31	29210494	29211051	MSTRG.13280.1	F11
scaffold_31	27316538	27317769	F110B_g13442.t1	F110B
scaffold_31	6774844	6779139	FABP4_g13344.t1	FABP4
scaffold_31	6929317	6933194	FABP5_g13347.t1	FABP5
scaffold_31	5720481	5720710	MSTRG.13166.1	FBXO16
scaffold_31	29252288	29296941	MSTRG.13282.1	GALNT7
scaffold_31	32778340	32780870	PRP4B_g13473.t1	GALNT7
scaffold_31	22942582	22963999	GGH_g13429.t1	GGH
scaffold_31	8231693	8234142	HEY1_g13355.t1	HEY1
scaffold_31	11967218	11990402	HNF4G_g13365.t2	HNF4G
scaffold_31	34974251	35239991	LAMB3_g13483.t1	HOATZ
scaffold_31	19896896	19929735	HOT_g13414.t1	HOT
scaffold_31	9099824	9145637	IL7_g13357.t1	IL7
scaffold_31	6644130	6662971	IMPA1_g13342.t1	IMPA1
scaffold_31	6644358	6663655	MSTRG.13178.2	IMPA1
scaffold_31	28091021	28123216	IMPA3_g13446.t1	IMPA3
scaffold_31	28090826	28123216	IMPA3_g13446.t2	IMPA3
scaffold_31	28124411	28129835	MSTRG.13266.1	IMPAD1
scaffold_31	16142562	16184323	LACB2_g13390.t1	LACTB2
scaffold_31	3667878	3699616	MSTRG.13152.1	LRRCC1
scaffold_31	13343585	13369846	LY96_g13371.t1	LY96
scaffold_31	29046985	29158745	LYN_g13456.t1	LYN
scaffold_31	19493152	19530823	MCMD2_g13407.t1	MCMD2
scaffold_31	1029609	1247568	MMP16_g13297.t1	MMP16
scaffold_31	28958685	28959734	MOS_g13454.t1	MOS
scaffold_31	20581359	20631107	MTFR1_g13420.t1	MTFR1
scaffold_31	20578287	20646269	MSTRG.13236.1	MTFR1
scaffold_31	20579606	20646269	MSTRG.13236.2	MTFR1
scaffold_31	19763584	19795762	MYBA_g13412.t1	MYBA
scaffold_31	19781723	19787458	MSTRG.13232.3	MYBL1
scaffold_31	19780978	19797860	MSTRG.13232.2	MYBL1
scaffold_31	16373951	16656152	MSTRG.13216.2	NCOA2
scaffold_31	16373976	16656152	MSTRG.13216.3	NCOA2
scaffold_31	16373951	16656152	MSTRG.13216.1	NCOA2

scaffold_31	16374417	16656152	MSTRG.13216.4	NCOA2
scaffold_31	16374417	16656152	MSTRG.13216.5	NCOA2
scaffold_31	16374417	16656152	MSTRG.13216.6	NCOA2
scaffold_31	23005252	23620312	NKAI3_g13430.t1	NKAI3
scaffold_31	34799912	34801131	NOTC3_g13482.t1	NOTCH3
scaffold_31	7491961	7504747	ANKY2_g13351.t1	ANKY2_g13351.t1
scaffold_31	1608070	1609038	CRPAK_g13307.t1	CRPAK_g13307.t1
scaffold_31	19435899	19436480	DUT_g13405.t1	DUT_g13405.t1
scaffold_31	19440063	19440914	FV1_g13406.t1	FV1_g13406.t1
scaffold_31	19613697	19614569	FV1_g13409.t1	FV1_g13409.t1
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scaffold_31	2527376	2580491	MSTRG.13135.2	MSTRG.13135.2
scaffold_31	2131488	2131720	MSTRG.13136.1	MSTRG.13136.1
scaffold_31	3275946	3276171	MSTRG.13137.1	MSTRG.13137.1
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scaffold_31	2586742	2619869	MSTRG.13138.2	MSTRG.13138.2
scaffold_31	2586742	2619869	MSTRG.13138.3	MSTRG.13138.3
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scaffold_31	2620311	2740098	MSTRG.13140.1	MSTRG.13140.1
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scaffold_31	3922562	3923061	MSTRG.13158.1	MSTRG.13158.1
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scaffold_31	4322065	4322290	MSTRG.13161.1	MSTRG.13161.1
scaffold_31	5608761	5608971	MSTRG.13163.1	MSTRG.13163.1
scaffold_31	5532047	5577517	MSTRG.13165.1	MSTRG.13165.1
scaffold_31	5532047	5567644	MSTRG.13165.2	MSTRG.13165.2
scaffold_31	5532075	5577517	MSTRG.13165.3	MSTRG.13165.3
scaffold_31	5532085	5577517	MSTRG.13165.4	MSTRG.13165.4
scaffold_31	5532094	5577517	MSTRG.13165.5	MSTRG.13165.5
scaffold_31	5567645	5577517	MSTRG.13165.7	MSTRG.13165.7
scaffold_31	5709451	5709669	MSTRG.13167.1	MSTRG.13167.1
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scaffold_31	6393181	6408738	MSTRG.13172.10	MSTRG.13172.10
scaffold_31	6188255	6319089	MSTRG.13172.2	MSTRG.13172.2
scaffold_31	6240437	6404398	MSTRG.13172.3	MSTRG.13172.3
scaffold_31	6240437	6404398	MSTRG.13172.4	MSTRG.13172.4
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scaffold_31	6217399	6306122	MSTRG.13173.1	MSTRG.13173.1
scaffold_31	6319361	6333058	MSTRG.13174.1	MSTRG.13174.1
scaffold_31	6345267	6354746	MSTRG.13175.1	MSTRG.13175.1
scaffold_31	7079204	7079413	MSTRG.13176.1	MSTRG.13176.1
scaffold_31	7142617	7205949	MSTRG.13179.1	MSTRG.13179.1
scaffold_31	7148396	7206287	MSTRG.13179.2	MSTRG.13179.2
scaffold_31	7211656	7212209	MSTRG.13182.1	MSTRG.13182.1
scaffold_31	8208131	8208349	MSTRG.13187.1	MSTRG.13187.1
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scaffold_31	8641625	8646997	MSTRG.13188.2	MSTRG.13188.2
scaffold_31	8641625	8646997	MSTRG.13188.3	MSTRG.13188.3
scaffold_31	9190240	9190471	MSTRG.13190.1	MSTRG.13190.1
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scaffold_31	13560222	13560434	MSTRG.13197.1	MSTRG.13197.1
scaffold_31	13568766	13568996	MSTRG.13199.1	MSTRG.13199.1
scaffold_31	13511288	13512701	MSTRG.13204.1	MSTRG.13204.1
scaffold_31	13525491	13525698	MSTRG.13205.1	MSTRG.13205.1
scaffold_31	13614271	13887044	MSTRG.13206.3	MSTRG.13206.3
scaffold_31	14001792	14005665	MSTRG.13208.1	MSTRG.13208.1
scaffold_31	14208447	14208888	MSTRG.13209.1	MSTRG.13209.1
scaffold_31	15590002	15590231	MSTRG.13212.1	MSTRG.13212.1
scaffold_31	19487372	19490647	MSTRG.13221.1	MSTRG.13221.1
scaffold_31	19487372	19490647	MSTRG.13221.2	MSTRG.13221.2
scaffold_31	19556124	19580698	MSTRG.13224.6	MSTRG.13224.6
scaffold_31	19677526	19682727	MSTRG.13228.1	MSTRG.13228.1
scaffold_31	19690560	19692923	MSTRG.13229.1	MSTRG.13229.1
scaffold_31	19766530	19766739	MSTRG.13233.1	MSTRG.13233.1
scaffold_31	19721721	19754333	MSTRG.13234.1	MSTRG.13234.1
scaffold_31	20504765	20575382	MSTRG.13235.3	MSTRG.13235.3
scaffold_31	22756073	22756305	MSTRG.13237.1	MSTRG.13237.1
scaffold_31	22799890	22800096	MSTRG.13238.1	MSTRG.13238.1
scaffold_31	20658505	20698949	MSTRG.13239.1	MSTRG.13239.1
scaffold_31	22856513	22856721	MSTRG.13241.1	MSTRG.13241.1
scaffold_31	22813752	22839888	MSTRG.13243.3	MSTRG.13243.3

scaffold_31	23093197	23093420	MSTRG.13248.1	MSTRG.13248.1
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scaffold_31	24865340	24872348	MSTRG.13250.1	MSTRG.13250.1
scaffold_31	24127419	24347055	MSTRG.13251.3	MSTRG.13251.3
scaffold_31	24163055	24223912	MSTRG.13251.4	MSTRG.13251.4
scaffold_31	26863306	26908300	MSTRG.13257.2	MSTRG.13257.2
scaffold_31	26877214	26908300	MSTRG.13257.3	MSTRG.13257.3
scaffold_31	27060580	27089541	MSTRG.13259.1	MSTRG.13259.1
scaffold_31	27060643	27089541	MSTRG.13259.2	MSTRG.13259.2
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scaffold_31	28069285	28069507	MSTRG.13263.1	MSTRG.13263.1
scaffold_31	27313186	27464174	MSTRG.13264.1	MSTRG.13264.1
scaffold_31	28703641	28759227	MSTRG.13273.1	MSTRG.13273.1
scaffold_31	28710459	28759227	MSTRG.13273.2	MSTRG.13273.2
scaffold_31	28712748	28716870	MSTRG.13274.1	MSTRG.13274.1
scaffold_31	28746179	28758818	MSTRG.13275.1	MSTRG.13275.1
scaffold_31	28999871	29001572	MSTRG.13277.1	MSTRG.13277.1
scaffold_31	29016240	29016466	MSTRG.13279.1	MSTRG.13279.1
scaffold_31	31122512	31239497	MSTRG.13287.1	MSTRG.13287.1
scaffold_31	31122512	31239497	MSTRG.13287.2	MSTRG.13287.2
scaffold_31	31931294	31931499	MSTRG.13288.1	MSTRG.13288.1
scaffold_31	31559111	31589106	MSTRG.13289.1	MSTRG.13289.1
scaffold_31	31559111	31589106	MSTRG.13289.2	MSTRG.13289.2
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scaffold_31	32126831	32143594	MSTRG.13291.1	MSTRG.13291.1
scaffold_31	32127986	32143594	MSTRG.13291.2	MSTRG.13291.2
scaffold_31	32836720	32836931	MSTRG.13293.1	MSTRG.13293.1
scaffold_31	32818737	32819173	MSTRG.13294.1	MSTRG.13294.1
scaffold_31	32830323	32830546	MSTRG.13295.1	MSTRG.13295.1
scaffold_31	32882241	32958249	MSTRG.13297.1	MSTRG.13297.1
scaffold_31	32968401	32970573	MSTRG.13298.1	MSTRG.13298.1
scaffold_31	32988503	32988723	MSTRG.13300.1	MSTRG.13300.1
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scaffold_31	35453747	35454061	MSTRG.13303.1	MSTRG.13303.1
scaffold_31	35462469	35462769	MSTRG.13304.1	MSTRG.13304.1
scaffold_31	35798130	35798631	MSTRG.13305.1	MSTRG.13305.1
scaffold_31	35800150	35800485	MSTRG.13306.1	MSTRG.13306.1
scaffold_31	35886945	35951418	MSTRG.13308.1	MSTRG.13308.1
scaffold_31	35892024	35951418	MSTRG.13308.2	MSTRG.13308.2
scaffold_31	35909394	35923126	MSTRG.13309.1	MSTRG.13309.1
scaffold_31	31006160	31076338	RGS20_g13466.t1	RGS20_g13466.t1
scaffold_31	6637010	6638323	NTCP5_g13341.t1	NTCP5
scaffold_31	19697964	19698177	MSTRG.13223.1	NUDT15
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scaffold_31	31559741	31589106	OPRK_g13468.t1	OPRK1

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scaffold_31	32918372	32958249	MSTRG.13297.3	PCMTD1
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scaffold_31	20451329	20575382	MSTRG.13235.1	PDE7A
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scaffold_31	28647403	28652355	MSTRG.13267.1	PENK
scaffold_31	10712890	10714845	PEX2_g13362.t1	PEX2
scaffold_31	12579131	12606140	PI15_g13367.t1	PI15
scaffold_31	5614262	5614473	MSTRG.13164.1	PIK3CA
scaffold_31	9262442	9350380	MSTRG.13191.1	PKIA
scaffold_31	28882307	28884323	PLAG1_g13452.t1	PLAG1
scaffold_31	16687754	16708113	PRD14_g13394.t1	PRDM14
scaffold_31	6937155	6944710	PRDM2_g13348.t1	PRDM2
scaffold_31	18262106	18545537	PREX2_g13398.t2	PREX2
scaffold_31	30499716	30499961	PTSS2_g13462.t1	PTSS2
scaffold_31	33292716	33293867	PXDNL_g13477.t1	PXDNL
scaffold_31	33356421	33367449	PXDNL_g13479.t1	PXDNL
scaffold_31	25114583	25212065	RAB2A_g13436.t1	RAB2A
scaffold_31	25108636	25170441	MSTRG.13258.1	RAB2A
scaffold_31	35446945	35447198	MSTRG.13302.1	RALGDS
scaffold_31	3857177	4048775	RALYL_g13336.t1	RALYL
scaffold_31	32143745	32239956	MSTRG.13292.2	RB1CC1
scaffold_31	32143565	32239956	MSTRG.13292.1	RB1CC1
scaffold_31	3606527	3609658	RBIS_g13332.t1	RBIS
scaffold_31	28759267	28785709	MSTRG.13276.1	RDH-E2
scaffold_31	28759267	28785709	MSTRG.13276.2	RDH-E2
scaffold_31	13973177	14000295	MSTRG.13207.1	RDH10
scaffold_31	13973850	13988078	MSTRG.13207.2	RDH10
scaffold_31	13975083	14000295	RDH10_g13377.t1	RDH10
scaffold_31	28763313	28785709	RDHE2_g13450.t1	RDHE2
scaffold_31	30841491	30847162	RM15_g13463.t1	RM15
scaffold_31	2586829	2620203	RMD1_g13320.t1	RMD1
scaffold_31	2962568	2968592	MSTRG.13146.4	RMI1
scaffold_31	19931741	19932838	RRS1_g13415.t1	RRS1
scaffold_31	28997232	28998482	RS20_g13455.t1	RPS20
scaffold_31	8007160	8112746	RT28_g13354.t1	MRPS28
scaffold_31	28696738	28739448	S16C6_g13448.t1	S16C6
scaffold_31	14182768	14204645	SBSPO_g13380.t1	SBSPON
scaffold_31	26909930	26974764	SDCB1_g13439.t1	SDCBP
scaffold_31	26908849	26945633	MSTRG.13260.1	SDCBP
scaffold_31	28695532	28701412	MSTRG.13270.1	SDR16C5
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scaffold_31	19541784	19677469	MSTRG.13224.3	SGK3
scaffold_31	19543473	19598418	SGK3_g13408.t1	SGK3
scaffold_31	19541788	19623417	MSTRG.13224.4	SGK3
scaffold_31	19557679	19565945	MSTRG.13225.1	SGK3
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scaffold_31	6519178	6526035	MSTRG.13168.1	SNX16
scaffold_31	6519240	6554138	SNX16_g13338.t1	SNX16
scaffold_31	16882302	17008617	SO5A1_g13395.t1	SO5A1
scaffold_31	32605584	32698256	ST18_g13472.t1	ST18
scaffold_31	32970585	32970998	STAG1_g13475.t1	STAG1
scaffold_31	13579546	13889462	MSTRG.13206.1	STAU2
scaffold_31	13727469	13889462	STAU2_g13376.t1	STAU2
scaffold_31	17018569	17200866	MSTRG.13217.2	SULF1
scaffold_31	17018889	17200866	MSTRG.13217.3	SULF1
scaffold_31	17019507	17200866	MSTRG.13217.4	SULF1
scaffold_31	17018569	17200866	MSTRG.13217.1	SULF1
scaffold_31	17019507	17200866	MSTRG.13217.5	SULF1
scaffold_31	17035181	17175556	MSTRG.13217.7	SULF1
scaffold_31	17095175	17141029	MSTRG.13217.9	SULF1
scaffold_31	28731303	28759227	TAF1L_g13449.t1	TAF1L
scaffold_31	30959969	30996748	MSTRG.13285.1	TCEA1
scaffold_31	30960216	30996197	TCEA1_g13465.t1	TCEA1
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scaffold_31	29211486	29252051	TGS1_g13457.t1	TGS1
scaffold_31	3966583	4537787	MSTRG.13155.2	TIGD1
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scaffold_31	13375280	13383188	MSTRG.13196.2	TMEM70
scaffold_31	29263811	29296941	TMM68_g13458.t1	TMM68
scaffold_31	13375406	13383188	TMM70_g13372.t1	TMM70
scaffold_31	26407186	26698692	FAN_g13438.t1	TOX
scaffold_31	7888843	8000980	TPD52_g13353.t1	TPD52
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scaffold_31	16220730	16243240	TRAM1_g13391.t1	TRAM1
scaffold_31	22924236	22924450	MSTRG.13245.1	TTPA
scaffold_31	22905991	22922851	TTPA_g13428.t1	TTPA
scaffold_31	13507886	13508874	MSTRG.13202.1	UBE2W
scaffold_31	13509967	13510361	MSTRG.13203.1	UBE2W
scaffold_31	13441732	13507485	UBE2W_g13374.t1	UBE2W
scaffold_31	27065150	27089541	UBX2B_g13441.t1	UBXN2B
scaffold_31	2920316	2968298	VA0D2_g13326.t1	VA0D2
scaffold_31	31124078	31189968	VATH_g13467.t2	ATP6V1H
scaffold_31	16283894	16297794	WDR1_g13392.t1	WDR1
scaffold_31	2626642	2709074	WWP1_g13321.t1	WWP1
scaffold_31	2641900	2657569	MSTRG.13140.5	WWP1

scaffold_31	29430109	29838037	XKR4_g13459.t1	XKR4
scaffold_31	16097209	16132949	XKR9_g13389.t1	XKR9
scaffold_31	22805122	22840110	YTHD3_g13427.t1	YTHD3
scaffold_31	22840496	22844623	MSTRG.13242.1	YTHDF3
scaffold_31	22802106	22836233	MSTRG.13243.1	YTHDF3
scaffold_31	7615244	7651211	MSTRG.13185.1	ZBTB10
scaffold_31	9160281	9207477	ZC21A_g13358.t1	ZC21A
scaffold_31	6614194	6634009	ZFAN1_g13340.t1	ZFAND1
scaffold_31	10819862	10973814	ZFHX4_g13363.t1	ZFHX4
scaffold_31	5542082	5557926	MSTRG.13165.6	ZNF383
scaffold_31	7288832	7491956	MSTRG.13183.1	ZNF704
scaffold_32	9339773	9354677	1A1L1_g13534.t2	ACCS
scaffold_32	24036467	24056330	4F2_g13938.t1	SLC3A2
scaffold_32	1091576	1192172	ABTB2_g13500.t1	ABTB2
scaffold_32	1257580	1258623	ABTB2_g13501.t1	ABTB2
scaffold_32	9338167	9354677	MSTRG.13351.2	ACCS
scaffold_32	11392877	11394313	ACM4_g13558.t1	CHRM4
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scaffold_32	12106819	12120726	MSTRG.13394.2	ACP2
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scaffold_32	23767180	23797533	MSTRG.13483.2	AHNAK
scaffold_32	23767180	23797533	MSTRG.13483.3	AHNAK
scaffold_32	23767183	23797533	MSTRG.13483.4	AHNAK
scaffold_32	23767183	23797533	MSTRG.13483.5	AHNAK
scaffold_32	23767183	23797533	MSTRG.13483.6	AHNAK
scaffold_32	23767183	23797533	MSTRG.13483.7	AHNAK
scaffold_32	23767183	23797533	MSTRG.13483.8	AHNAK
scaffold_32	23767619	23779787	MSTRG.13483.9	AHNAK
scaffold_32	23767972	23798147	AHNK_g13909.t1	AHNAK
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scaffold_32	28384787	28388310	AL3B2_g14114.t1	ALDH3B2
scaffold_32	9181269	9214071	ALKB3_g13532.t1	ALKBH3
scaffold_32	9179563	9214071	MSTRG.13349.1	ALKBH3
scaffold_32	9194686	9214071	MSTRG.13349.3	ALKBH3
scaffold_32	11402930	11572724	MSTRG.13379.1	AMBRA1
scaffold_32	11402930	11572724	MSTRG.13379.2	AMBRA1
scaffold_32	11402930	11572724	MSTRG.13379.3	AMBRA1
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scaffold_32	34014720	34033096	ANO9_g14234.t1	ANO9
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scaffold_32	17646215	17647357	APJ_g13719.t1	APLNR
scaffold_32	28075802	28094291	ARBK1_g14090.t1	GRK2
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scaffold_32	11640258	11659314	MSTRG.13384.1	ARHGAP1
scaffold_32	26203597	26209306	ARL2_g13998.t1	ARL2
scaffold_32	26203918	26209306	MSTRG.13559.2	ARL2
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scaffold_32	23357627	23377661	ASGL1_g13904.t1	ASRGL1
scaffold_32	23654269	23675719	ASGL1_g13907.t2	ASRGL1
scaffold_32	30269870	30275358	MSTRG.13676.1	ASPH
scaffold_32	23653586	23669213	MSTRG.13478.1	ASRGL1
scaffold_32	11611616	11636202	ATG13_g13561.t1	ATG13
scaffold_32	11589012	11637942	MSTRG.13383.1	ATG13
scaffold_32	11589048	11637942	MSTRG.13383.2	ATG13
scaffold_32	11589048	11637942	MSTRG.13383.3	ATG13
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scaffold_32	26111915	26128809	MSTRG.13554.2	ATG2A
scaffold_32	25056121	25104966	ATLA3_g13953.t1	ATL3
scaffold_32	28458810	28462307	MSTRG.13658.4	ATP6V0A1
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scaffold_32	34061914	34073741	B4GN4_g14237.t1	B4GALNT4
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scaffold_32	27019698	27021482	MSTRG.13609.1	BANF1
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scaffold_32	22735747	22736161	MSTRG.13464.1	BEND3
scaffold_32	23002867	23011734	BEST1_g13900.t1	BEST1
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scaffold_32	34276460	34278676	BET1L_g14249.t1	BET1L
scaffold_32	26462970	26463692	BORG1_g14013.t1	CDC42EP2
scaffold_32	27301830	27305661	BRMS1_g14062.t1	BRMS1
scaffold_32	33704010	33733270	BRSK1_g14221.t1	BRSK1
scaffold_32	33721815	33731087	MSTRG.13723.2	BRSK2
scaffold_32	33726398	33728821	MSTRG.13724.1	BRSK2
scaffold_32	33732046	33733072	MSTRG.13725.1	BRSK2
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scaffold_32	23905381	23914906	MSTRG.13496.2	BSCL2
scaffold_32	23905384	23914906	MSTRG.13496.3	BSCL2
scaffold_32	23905384	23918600	MSTRG.13496.4	BSCL2
scaffold_32	23917817	23918600	MSTRG.13496.6	BSCL2

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scaffold_32	28635817	28643516	MSTRG.13661.3	C11ORF24
scaffold_32	12043142	12053958	MSTRG.13390.1	CSTPP1
scaffold_32	26942073	26944295	MSTRG.13603.1	C11ORF68
scaffold_32	25173277	25173698	MSTRG.13517.1	ZFTA
scaffold_32	25174895	25175193	MSTRG.13520.1	ZFTA
scaffold_32	12370235	12371077	C1QT4_g13584.t1	C1QTNF4
scaffold_32	26928420	26928652	MSTRG.13606.1	CACNG4
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scaffold_32	26347208	26372045	MSTRG.13570.1	CAPN1
scaffold_32	26347925	26372045	MSTRG.13570.2	CAPN1
scaffold_32	1000492	1049164	CAPR1_g13498.t1	CAPRIN1
scaffold_32	1012924	1049545	MSTRG.13315.2	CAPRIN1
scaffold_32	1014949	1021546	MSTRG.13316.1	CAPRIN1
scaffold_32	28195912	28205056	MSTRG.13642.2	CARNS1
scaffold_32	1347029	1359143	MSTRG.13321.2	CAT
scaffold_32	1320586	1367857	CATA_g13502.t1	CAT
scaffold_32	31476410	31486485	CATD_g14161.t1	CTSD
scaffold_32	27499608	27504020	CATF_g14073.t1	CTSF
scaffold_32	26912376	26915576	CATW_g14038.t1	CTSW
scaffold_32	26922078	26922641	CC85B_g14040.t1	CCDC85B
scaffold_32	26922033	26922641	CC85B_g14040.t2	CCDC85B
scaffold_32	21790252	21797189	CCD86_g13863.t1	CCDC86
scaffold_32	27523003	27525579	CCD87_g14074.t1	CCDC87
scaffold_32	21790208	21798007	MSTRG.13444.1	CCDC86
scaffold_32	21790559	21791141	MSTRG.13444.3	CCDC86
scaffold_32	27519543	27542922	MSTRG.13624.1	CCDC87
scaffold_32	27525839	27538582	CCS_g14075.t1	CCS
scaffold_32	27525839	27542922	MSTRG.13624.4	CCS
scaffold_32	27525839	27542922	MSTRG.13624.5	CCS
scaffold_32	33115508	33118381	CD151_g14209.t1	CD151
scaffold_32	33113473	33118381	MSTRG.13714.1	CD151
scaffold_32	33113473	33118381	MSTRG.13714.2	CD151
scaffold_32	21442958	21449057	CD20_g13855.t2	MS4A1
scaffold_32	27281437	27283758	CD248_g14060.t1	CD248
scaffold_32	1966195	2078597	MSTRG.13328.1	CD44
scaffold_32	2023757	2029681	MSTRG.13328.3	CD44
scaffold_32	22013255	22024715	CD5_g13873.t1	CD5
scaffold_32	724720	734330	CD59_g13491.t1	CD59
scaffold_32	21898151	21940512	CD6_g13870.t1	CD6
scaffold_32	31971288	31989141	CD81_g14175.t1	CD81
scaffold_32	9799345	9821532	CD82_g13539.t1	CD82
scaffold_32	26054132	26067659	MSTRG.13553.2	CDC42BPG

scaffold_32	26254055	26258724	CDCA5_g14002.t1	CDCA5
scaffold_32	26252455	26258846	MSTRG.13564.1	CDCA5
scaffold_32	32935188	32942412	MSTRG.13703.1	CDH23
scaffold_32	32935596	32943516	CDHR5_g14196.t1	CDHR5
scaffold_32	12680618	12680939	MSTRG.13413.1	CDK18
scaffold_32	28266251	28270705	MSTRG.13649.1	CDK2AP2
scaffold_32	28267722	28270480	CDKA2_g14105.t1	CDK2AP2
scaffold_32	32417142	32419563	MSTRG.13691.1	CDKN1C
scaffold_32	32417928	32419227	CDN1C_g14181.t1	CDKN1C
scaffold_32	12272736	12296974	CELF1_g13579.t1	CELF1
scaffold_32	12266424	12337815	MSTRG.13400.1	CELF1
scaffold_32	12266424	12337815	MSTRG.13400.2	CELF1
scaffold_32	12266428	12337815	MSTRG.13400.3	CELF1
scaffold_32	28539983	28595248	MSTRG.13660.1	CHD4
scaffold_32	28539983	28595248	MSTRG.13660.3	CHD4
scaffold_32	33149716	33179433	MSTRG.13717.1	CHID1
scaffold_32	28465315	28518293	CHKA_g14117.t1	CHKA
scaffold_32	10765334	10766569	CHST1_g13547.t1	CHST1
scaffold_32	28634867	28636927	CK024_g14119.t1	C11ORF24
scaffold_32	11860520	12040873	CK049_g13567.t1	CSTPP1
scaffold_32	26942718	26944295	CK068_g14042.t1	C11ORF68
scaffold_32	9232492	9232863	CK096_g13533.t1	C11ORF96
scaffold_32	23882504	23884624	CK098_g13918.t1	C11ORF98
scaffold_32	11695680	11762615	CKAP5_g13565.t1	CKAP5
scaffold_32	11695174	11795438	MSTRG.13388.1	CKAP5
scaffold_32	11695174	11795438	MSTRG.13388.2	CKAP5
scaffold_32	11695262	11795438	MSTRG.13388.3	CKAP5
scaffold_32	12068594	12099481	MSTRG.13392.1	CLCC1
scaffold_32	12068594	12097740	MSTRG.13392.2	CLCC1
scaffold_32	28153246	28161787	CLCF1_g14094.t1	CLCF1
scaffold_32	18037217	18039796	CLP1_g13733.t1	CLP1
scaffold_32	18036974	18039796	CLP1_g13733.t2	CLP1
scaffold_32	18035960	18040082	MSTRG.13423.1	CLP1
scaffold_32	27254397	27255826	CNIH2_g14057.t1	CNIH2
scaffold_32	26889672	26892593	COF1_g14035.t1	CFL1
scaffold_32	2945100	2968164	COMD9_g13516.t1	COMMD9
scaffold_32	28214872	28219115	COR1B_g14100.t1	CORO1B
scaffold_32	28214531	28219992	MSTRG.13644.1	CORO1B
scaffold_32	25357252	25358893	COX8A_g13961.t1	COX8A
scaffold_32	34218109	34219693	COX8B_g14245.t1	COX8BP
scaffold_32	22450047	22473583	MSTRG.13455.1	CPSF7
scaffold_32	22450047	22473583	MSTRG.13455.2	CPSF7
scaffold_32	29063161	29107024	CPT1A_g14126.t1	CPT1A
scaffold_32	29061006	29122494	MSTRG.13670.1	CPT1A
scaffold_32	11304319	11337460	CR3L1_g13555.t1	CREB3L1

scaffold_32	11337873	11338124	MSTRG.13377.1	CREB3L1
scaffold_32	28195696	28205056	CRNS1_g14098.t1	CARNS1
scaffold_32	10916605	10939548	CRY2_g13549.t1	CRY2
scaffold_32	10916605	10951795	MSTRG.13365.1	CRY2
scaffold_32	10916671	10939548	MSTRG.13365.3	CRY2
scaffold_32	23884924	23887723	CSKMT_g13919.t1	CSKMT
scaffold_32	152304	222475	CSTF3_g13488.t1	CSTF3
scaffold_32	18127368	18150380	CTND1_g13739.t1	CTNND1
scaffold_32	18102571	18150380	MSTRG.13432.1	CTNND1
scaffold_32	23824413	23824627	MSTRG.13487.1	CUTC
scaffold_32	22418842	22428579	MSTRG.13452.1	CYB561A3
scaffold_32	22418862	22428579	MSTRG.13452.2	CYB561A3
scaffold_32	27027886	27029209	CYTM_g14048.t1	CST6
scaffold_32	22734812	22735029	MSTRG.13463.1	DAGLA
scaffold_32	22736415	22736695	MSTRG.13465.1	DAGLA
scaffold_32	22378589	22404919	DDB1_g13884.t1	DDB1
scaffold_32	12075316	12099481	DDB2_g13570.t1	DDB2
scaffold_32	12074873	12099481	MSTRG.13392.3	DDB2
scaffold_32	25175480	25181568	MSTRG.13521.1	DDHD1
scaffold_32	32968233	33003153	DEAF1_g14198.t1	DEAF1
scaffold_32	32967879	33003153	MSTRG.13704.1	DEAF1
scaffold_32	33003261	33010174	MSTRG.13705.1	DEAF1
scaffold_32	84410	100183	DEPD7_g13486.t1	DEPDC7
scaffold_32	11357614	11388251	DGKZ_g13556.t1	DGKZ
scaffold_32	11357519	11388251	MSTRG.13376.1	DGKZ
scaffold_32	22711289	22734498	DGLA_g13892.t1	DAGLA
scaffold_32	31198147	31208258	DHCR7_g14155.t1	DHCR7
scaffold_32	31197329	31217476	MSTRG.13681.1	DHCR7
scaffold_32	31197329	31217476	MSTRG.13681.2	DHCR7
scaffold_32	9758422	9758715	RANB3_g13538.t1	DMBT1
scaffold_32	25572323	25575938	MSTRG.13534.1	DNAJC4
scaffold_32	25572564	25575938	MSTRG.13534.2	DNAJC4
scaffold_32	25572678	25575938	DNJC4_g13969.t1	DNAJC4
scaffold_32	28355579	28359012	DOC2G_g14110.t2	DOC2GP
scaffold_32	26485419	26486438	MSTRG.13574.1	DPF2
scaffold_32	26417215	26444512	DPOA2_g14012.t2	POLA2
scaffold_32	28142935	28144123	DPOD4_g14093.t1	POLD4
scaffold_32	27423780	27454394	MSTRG.13620.1	DPP3
scaffold_32	27423876	27454394	MSTRG.13620.2	DPP3
scaffold_32	27423876	27454394	MSTRG.13620.3	DPP3
scaffold_32	27423876	27454394	MSTRG.13620.4	DPP3
scaffold_32	27424165	27454394	MSTRG.13620.5	DPP3
scaffold_32	26944412	26947567	MSTRG.13604.1	DRAP1
scaffold_32	32960695	32963617	DRD4_g14197.t1	DRD4
scaffold_32	19889408	19920751	DTX4_g13801.t1	DTX4

scaffold_32	33844036	33853104	DUS8_g14223.t1	DUSP8
scaffold_32	33841583	33859465	MSTRG.13728.1	DUSP8
scaffold_32	23807291	23817111	EF1G_g13910.t1	EEF1G
scaffold_32	33108961	33112056	EFC4A_g14208.t1	CRACR2B
scaffold_32	26901493	26908564	MSTRG.13602.1	EFEMP2
scaffold_32	26682117	26697460	EH1L1_g14022.t1	EHBP1L1
scaffold_32	26686729	26690551	MSTRG.13585.2	EHBP1L1
scaffold_32	26075635	26095387	EHD1_g13991.t1	EHD1
scaffold_32	26074021	26074967	MSTRG.13551.1	EHD1
scaffold_32	1517563	1548656	EHF_g13505.t1	EHF
scaffold_32	27016715	27018563	EIF1A_g14046.t1	EIF1AX
scaffold_32	1375032	1406065	ELF5_g13503.t1	ELF5
scaffold_32	23839952	23849140	EMAL3_g13913.t1	EML3
scaffold_32	26277613	26282208	ERG24_g14006.t1	TM7SF2
scaffold_32	25635747	25642955	ERR1_g13977.t1	ESRRA
scaffold_32	33014858	33030275	ES8L2_g14199.t2	EPS8L2
scaffold_32	9368916	9504991	EXT2_g13535.t1	EXT2
scaffold_32	19866054	19869371	F111A_g13800.t1	FAM111A
scaffold_32	19866000	19869371	F111A_g13800.t2	FAM111A
scaffold_32	19847193	19854059	F111B_g13799.t1	FAM111B
scaffold_32	12367415	12369024	F180B_g13583.t1	FAM180B
scaffold_32	27758114	27761282	FACE2_g14082.t1	RCE1
scaffold_32	30266004	30271627	FADD_g14143.t1	FADD
scaffold_32	22788751	22800661	FADS1_g13896.t1	FADS1
scaffold_32	22786113	22800661	MSTRG.13461.1	FADS1
scaffold_32	22896312	22929972	FADS2_g13897.t1	FADS2
scaffold_32	22896261	22929972	FADS2_g13897.t2	FADS2
scaffold_32	22935984	22946733	FADS3_g13898.t1	FADS3
scaffold_32	22934577	22934997	MSTRG.13469.1	FADS3
scaffold_32	19845279	19854059	MSTRG.13436.2	FAM111B
scaffold_32	33076403	33085994	MSTRG.13709.1	FBF1
scaffold_32	26901628	26908564	FBLN4_g14037.t1	EFEMP2
scaffold_32	748452	779776	FBX3_g13493.t1	FBXO3
scaffold_32	747108	779509	MSTRG.13314.1	FBXO3
scaffold_32	22782615	22784472	FEN1_g13895.t1	FEN1
scaffold_32	22779303	22784472	MSTRG.13468.1	FEN1
scaffold_32	22779468	22784472	MSTRG.13468.2	FEN1
scaffold_32	25564018	25564606	MSTRG.13532.1	FERMT3
scaffold_32	26915955	26919673	FIBP_g14039.t1	FIBP
scaffold_32	26915922	26919673	MSTRG.13599.1	FIBP
scaffold_32	2388674	2389975	FJX1_g13513.t1	FJX1
scaffold_32	2388662	2389975	FJX1_g13513.t2	FJX1
scaffold_32	25581222	25584133	MSTRG.13536.1	FKBP2
scaffold_32	25581476	25584133	MSTRG.13536.2	FKBP2
scaffold_32	25478816	25480504	FLRT1_g13964.t1	FLRT1

scaffold_32	12481387	12505777	FNBP4_g13587.t1	FNBP4
scaffold_32	12471199	12505777	MSTRG.13408.1	FNBP4
scaffold_32	12471199	12505777	MSTRG.13408.2	FNBP4
scaffold_32	12471199	12505777	MSTRG.13408.3	FNBP4
scaffold_32	12471199	12505777	MSTRG.13408.4	FNBP4
scaffold_32	12488643	12491490	MSTRG.13408.6	FNBP4
scaffold_32	26924152	26929094	FOSL1_g14041.t1	FOSL1
scaffold_32	23013125	23015420	FRIH_g13901.t1	FTH1
scaffold_32	26508330	26529774	FRMD8_g14017.t1	FRMD8
scaffold_32	26508478	26530208	MSTRG.13575.2	FRMD8
scaffold_32	10888125	10894325	FUCT1_g13548.t1	SLC35C1
scaffold_32	25619975	25622850	G137A_g13974.t1	G137A
scaffold_32	27053286	27056417	G3ST3_g14052.t1	G3ST3
scaffold_32	27053286	27056456	G3ST3_g14052.t2	G3ST3
scaffold_32	33061642	33067222	GALD1_g14202.t1	GATD1
scaffold_32	23857612	23877897	MSTRG.13492.1	GANAB
scaffold_32	23857612	23872967	MSTRG.13492.2	GANAB
scaffold_32	2925318	2925689	MSTRG.13333.1	GANC
scaffold_32	26142475	26143631	GPHA2_g13994.t1	GPHA2
scaffold_32	25619625	25622850	MSTRG.13547.1	GPR137
scaffold_32	28449788	28462307	MSTRG.13658.1	GPR152
scaffold_32	28094936	28095256	MSTRG.13636.1	GRK2
scaffold_32	25968897	25980689	GRP2_g13985.t1	GRP2
scaffold_32	28295529	28332916	GSTP1_g14108.t1	GSTP1
scaffold_32	28286090	28289370	MSTRG.13646.1	GSTP1
scaffold_32	28286434	28289370	GSTP2_g14107.t1	GSTP2
scaffold_32	10276492	10276772	MSTRG.13357.1	GTF2IRD1
scaffold_32	10712585	10721191	GTR10_g13546.t1	SLC2A10
scaffold_32	10985358	10994498	MSTRG.13373.1	LARGE2
scaffold_32	10985358	10994498	MSTRG.13373.2	LARGE2
scaffold_32	10985745	10996627	MSTRG.13373.3	LARGE2
scaffold_32	10988141	10994498	MSTRG.13373.5	LARGE2
scaffold_32	10991059	10994498	MSTRG.13373.6	LARGE2
scaffold_32	11580709	11587861	HARB1_g13560.t1	HARBI1
scaffold_32	11578955	11588779	MSTRG.13382.1	HARBI1
scaffold_32	327569	392812	HIPK3_g13489.t1	HIPK3
scaffold_32	298960	392812	MSTRG.13313.1	HIPK3
scaffold_32	299115	392812	MSTRG.13313.2	HIPK3
scaffold_32	388117	392812	MSTRG.13313.4	HIPK3
scaffold_32	23923524	23933254	HNRL2_g13925.t1	HNRL2
scaffold_32	23923415	23933254	MSTRG.13498.1	HNRNPUL2
scaffold_32	32856780	32859958	MSTRG.13695.1	HRAS
scaffold_32	9166952	9179421	MSTRG.13348.1	HSD17B12
scaffold_32	20923002	20938358	IF_g13845.t1	IF
scaffold_32	29176474	29204451	MSTRG.13669.1	IGHMBP2

scaffold_32	23121317	23133486	INCE_g13902.t1	INCENP
scaffold_32	23139985	23144696	INCE_g13902.t2	INCENP
scaffold_32	23351042	23354822	INCE_g13903.t1	INCENP
scaffold_32	23117910	23133486	MSTRG.13475.1	INCENP
scaffold_32	23117910	23133486	MSTRG.13475.2	INCENP
scaffold_32	23133548	23145446	MSTRG.13476.1	INCENP
scaffold_32	23136157	23145446	MSTRG.13476.2	INCENP
scaffold_32	23873415	23877897	INT5_g13917.t1	INT5
scaffold_32	32931179	32934728	IRF7_g14195.t1	IRF7
scaffold_32	11638532	11638737	MSTRG.13380.1	ITGAX
scaffold_32	10952049	10971512	JIP1_g13550.t1	MAPK8IP1
scaffold_32	26797471	26804328	KAT5_g14028.t1	KAT5
scaffold_32	26797210	26804328	MSTRG.13589.1	KAT5
scaffold_32	26797218	26804328	MSTRG.13589.2	KAT5
scaffold_32	32035608	32035940	KATG_g14179.t1	KATG
scaffold_32	12356962	12360617	KBTB4_g13581.t1	KBTB4
scaffold_32	12355709	12360617	MSTRG.13404.1	KBTBD4
scaffold_32	12356255	12360617	MSTRG.13404.2	KBTBD4
scaffold_32	26698201	26700769	KCNK7_g14023.t1	KCNK7
scaffold_32	32284938	32385426	KCNQ1_g14180.t1	KCNQ1
scaffold_32	32030046	32385957	MSTRG.13688.2	KCNQ1
scaffold_32	32030035	32385957	MSTRG.13688.1	KCNQ1
scaffold_32	28049887	28066729	MSTRG.13635.3	KDM2A
scaffold_32	27971048	28066729	KDM2A_g14089.t1	KDM2A
scaffold_32	27969307	28066729	MSTRG.13635.1	KDM2A
scaffold_32	27231945	27241596	MSTRG.13612.1	KLC2
scaffold_32	27232029	27241596	MSTRG.13612.4	KLC2
scaffold_32	27232863	27241596	KLC2_g14055.t1	KLC2
scaffold_32	27232007	27241596	MSTRG.13612.2	KLC2
scaffold_32	27232025	27241596	MSTRG.13612.3	KLC2
scaffold_32	28542754	28576280	KMT5B_g14118.t1	KMT5B
scaffold_32	28539983	28595248	MSTRG.13660.2	KMT5B
scaffold_32	25673011	25682769	KS6A4_g13981.t1	RPS6KA4
scaffold_32	28206268	28211785	KS6B2_g14099.t1	KS6B2
scaffold_32	10987154	10994498	LARG2_g13553.t1	LARG2
scaffold_32	17890553	17920703	LAT3_g13726.t1	LAT3
scaffold_32	32881059	32885154	LMTD2_g14191.t1	LMNTD2
scaffold_32	33921038	33921496	LOC000000030_g14230.t1	LOC000000030
scaffold_32	16078780	16079274	OR5MB_g13675.t1	LOC101396874
scaffold_32	26592002	26595758	MSTRG.13577.1	LOC106781495
scaffold_32	19453559	19486674	LPXN_g13792.t1	LPXN
scaffold_32	19489108	19489463	MSTRG.13434.1	LPXN
scaffold_32	2667000	2899128	LRAD3_g13515.t1	LDLRAD3
scaffold_32	6135954	6137840	LRC4C_g13525.t1	LRC4C
scaffold_32	6135954	6137876	LRC4C_g13525.t2	LRC4C

scaffold_32	32862075	32880243	LRC56_g14190.t1	LRC56
scaffold_32	23902764	23903468	LRN4L_g13922.t1	LRRN4CL
scaffold_32	11804498	11851381	LRP4_g13566.t1	LRP4
scaffold_32	11802394	11851381	MSTRG.13389.1	LRP4
scaffold_32	28673300	28782344	MSTRG.13662.1	LRP5
scaffold_32	28702986	28706775	MSTRG.13662.4	LRP5
scaffold_32	31572717	31593478	LSP1_g14164.t1	LSP1
scaffold_32	26645057	26661928	LTBP3_g14019.t1	LTBP3
scaffold_32	26644955	26662476	MSTRG.13584.1	LTBP3
scaffold_32	26644975	26662476	MSTRG.13584.2	LTBP3
scaffold_32	26645159	26657753	MSTRG.13584.4	LTBP3
scaffold_32	26657970	26662476	MSTRG.13584.5	LTBP3
scaffold_32	29830489	29836747	LTO1_g14136.t1	LTO1
scaffold_32	24012693	24013640	LZTS3_g13934.t1	LZTS3
scaffold_32	21691658	21704365	M4A8_g13861.t2	M4A8
scaffold_32	26023688	26035062	M4K2_g13988.t1	MAP4K2
scaffold_32	25374127	25433219	MACD1_g13963.t1	MACROD1
scaffold_32	25508584	25520488	MACD1_g13965.t1	MACROD1
scaffold_32	25374115	25520488	MSTRG.13529.1	MACROD1
scaffold_32	10153507	10155080	PKHA6_g13543.t1	MAD1L1
scaffold_32	12120847	12158669	MSTRG.13395.1	MADD
scaffold_32	12120852	12158669	MSTRG.13395.2	MADD
scaffold_32	12128198	12158669	MSTRG.13395.4	MADD
scaffold_32	26143689	26153369	MAJIN_g13995.t1	MAJIN
scaffold_32	26145877	26171245	MSTRG.13558.2	MAJIN
scaffold_32	26702002	26718913	MSTRG.13587.2	MAP3K11
scaffold_32	26701889	26718019	MSTRG.13587.1	MAP3K11
scaffold_32	10951958	10971512	MSTRG.13366.1	MAP8IP1
scaffold_32	25254592	25308822	MARK2_g13957.t1	MARK2
scaffold_32	25309213	25310456	MSTRG.13523.1	MARK2
scaffold_32	25254097	25265983	MSTRG.13524.1	MARK2
scaffold_32	25254377	25265983	MSTRG.13524.2	MARK2
scaffold_32	25277322	25299659	MSTRG.13524.4	MARK2
scaffold_32	26036170	26041187	MEN1_g13989.t1	MEN1
scaffold_32	26035360	26041821	MSTRG.13550.1	MEN1
scaffold_32	26035410	26041821	MSTRG.13550.2	MEN1
scaffold_32	23884718	23887723	MSTRG.13494.2	CSKMT
scaffold_32	23881998	23900001	MSTRG.13493.1	METTL12
scaffold_32	23884718	23887723	MSTRG.13494.1	METTL12
scaffold_32	22540915	22541220	MSTRG.13458.1	MHFD2
scaffold_32	33743726	33761316	MOB2_g14222.t1	MOB2
scaffold_32	33742459	33823897	MSTRG.13726.1	MOB2
scaffold_32	33743862	33823897	MSTRG.13726.3	MOB2
scaffold_32	19926532	19928685	MPEG1_g13802.t1	MPEG1
scaffold_32	26049819	26067659	MRCKG_g13990.t1	CDC42BPG

scaffold_32	29256881	29260957	MRGRF_g14131.t1	MRGRF
scaffold_32	29158260	29176380	MSTRG.13668.1	MRPL21
scaffold_32	31639662	31647891	MSTRG.13683.2	MRPL23
scaffold_32	31642245	31647891	MSTRG.13683.4	MRPL23
scaffold_32	21044595	21071507	MS4A3_g13849.t1	MS4A3
scaffold_32	23831617	23838941	MTA2_g13912.t1	MTA2
scaffold_32	12391168	12396633	MSTRG.13406.1	MTCH2
scaffold_32	12393225	12409401	MTCH2_g13585.t1	MTCH2
scaffold_32	1731684	1763627	MTNB_g13507.t1	APIP
scaffold_32	33386772	33400917	MUC2L_g14217.t1	MUC2
scaffold_32	33545479	33546865	MSTRG.13721.2	MUC5B
scaffold_32	33508327	33546329	MUC5B_g14219.t1	MUC5B
scaffold_32	33281642	33318956	MUC6_g14215.t1	MUC6
scaffold_32	26895415	26901013	MUS81_g14036.t1	MUS81
scaffold_32	12160301	12177734	MYPC_g13574.t1	MYBPC3
scaffold_32	22768414	22779192	MSTRG.13467.1	MYRF
scaffold_32	22770784	22773498	MSTRG.13467.2	MYRF
scaffold_32	22741781	22772796	MYRF_g13893.t1	MYRF
scaffold_32	25333391	25345994	NAA40_g13959.t1	NAA40
scaffold_32	25346617	25346969	MSTRG.13526.1	NAA40
scaffold_32	31222131	31263070	NADE_g14156.t1	BEX3
scaffold_32	2940311	2940526	MSTRG.13339.1	NADK2
scaffold_32	32480189	32529331	MSTRG.13693.2	NAP1L4
scaffold_32	32480148	32529331	MSTRG.13693.1	NAP1L4
scaffold_32	32480201	32529331	MSTRG.13693.3	NAP1L4
scaffold_32	1075069	1085592	MSTRG.13317.3	NAT10
scaffold_32	1052559	1085592	NAT10_g13499.t1	NAT10
scaffold_32	1049822	1086183	MSTRG.13317.1	NAT10
scaffold_32	26944757	26947567	NC2A_g14043.t1	DRAP1
scaffold_32	28443457	28447315	MSTRG.13657.3	NDUFS8
scaffold_32	28446020	28447315	MSTRG.13657.4	NDUFS8
scaffold_32	12360728	12366203	NDUS3_g13582.t1	NDUS3
scaffold_32	28349616	28354977	NDUV1_g14109.t1	NDUV1
scaffold_32	34174885	34179820	NLRP6_g14244.t1	NLRP6
scaffold_32	17070887	17072392	FV1_g13709.t1	FV1_g13709.t1
scaffold_32	82766	82975	MSTRG.13307.1	MSTRG.13307.1
scaffold_32	1241767	1241989	MSTRG.13319.1	MSTRG.13319.1
scaffold_32	1392034	1392257	MSTRG.13323.1	MSTRG.13323.1
scaffold_32	2562667	2562868	MSTRG.13329.1	MSTRG.13329.1
scaffold_32	2548338	2548610	MSTRG.13331.1	MSTRG.13331.1
scaffold_32	2549314	2550333	MSTRG.13332.1	MSTRG.13332.1
scaffold_32	2666970	2901792	MSTRG.13334.1	MSTRG.13334.1
scaffold_32	2766301	2901792	MSTRG.13334.3	MSTRG.13334.3
scaffold_32	2766306	2901792	MSTRG.13334.4	MSTRG.13334.4
scaffold_32	2708366	2708573	MSTRG.13335.1	MSTRG.13335.1

scaffold_32	2712781	2712988	MSTRG.13336.1	MSTRG.13336.1
scaffold_32	2718309	2718516	MSTRG.13337.1	MSTRG.13337.1
scaffold_32	2744326	2744528	MSTRG.13338.1	MSTRG.13338.1
scaffold_32	2940932	2941154	MSTRG.13340.1	MSTRG.13340.1
scaffold_32	8688474	8717497	MSTRG.13344.1	MSTRG.13344.1
scaffold_32	8688558	8717497	MSTRG.13344.2	MSTRG.13344.2
scaffold_32	8724782	8842584	MSTRG.13345.1	MSTRG.13345.1
scaffold_32	9061664	9165979	MSTRG.13346.3	MSTRG.13346.3
scaffold_32	9177345	9178579	MSTRG.13348.3	MSTRG.13348.3
scaffold_32	9214813	9215042	MSTRG.13350.1	MSTRG.13350.1
scaffold_32	9506672	9506892	MSTRG.13352.1	MSTRG.13352.1
scaffold_32	9509761	9509987	MSTRG.13353.1	MSTRG.13353.1
scaffold_32	9507914	9508115	MSTRG.13354.1	MSTRG.13354.1
scaffold_32	9368967	9504991	MSTRG.13355.2	MSTRG.13355.2
scaffold_32	10896486	10896703	MSTRG.13361.1	MSTRG.13361.1
scaffold_32	10894490	10895259	MSTRG.13363.1	MSTRG.13363.1
scaffold_32	10952186	10952388	MSTRG.13367.1	MSTRG.13367.1
scaffold_32	10952738	10952954	MSTRG.13368.1	MSTRG.13368.1
scaffold_32	10953291	10953807	MSTRG.13369.1	MSTRG.13369.1
scaffold_32	11270007	11279426	MSTRG.13371.1	MSTRG.13371.1
scaffold_32	11270037	11279426	MSTRG.13371.2	MSTRG.13371.2
scaffold_32	11283370	11283594	MSTRG.13372.1	MSTRG.13372.1
scaffold_32	11667735	11667966	MSTRG.13387.1	MSTRG.13387.1
scaffold_32	12108823	12111615	MSTRG.13394.3	MSTRG.13394.3
scaffold_32	12389947	12390158	MSTRG.13401.1	MSTRG.13401.1
scaffold_32	12385935	12386225	MSTRG.13402.1	MSTRG.13402.1
scaffold_32	12434580	12469951	MSTRG.13407.1	MSTRG.13407.1
scaffold_32	15991848	15992205	MSTRG.13410.1	MSTRG.13410.1
scaffold_32	12741040	12741263	MSTRG.13415.1	MSTRG.13415.1
scaffold_32	17890437	17921409	MSTRG.13419.1	MSTRG.13419.1
scaffold_32	18151094	18151315	MSTRG.13429.1	MSTRG.13429.1
scaffold_32	18152260	18152487	MSTRG.13430.1	MSTRG.13430.1
scaffold_32	18632083	18632287	MSTRG.13431.1	MSTRG.13431.1
scaffold_32	18103209	18137716	MSTRG.13432.2	MSTRG.13432.2
scaffold_32	19877765	19877967	MSTRG.13437.1	MSTRG.13437.1
scaffold_32	22542666	22542926	MSTRG.13457.1	MSTRG.13457.1
scaffold_32	23147678	23147905	MSTRG.13473.1	MSTRG.13473.1
scaffold_32	23669394	23669613	MSTRG.13479.1	MSTRG.13479.1
scaffold_32	23670167	23670391	MSTRG.13480.1	MSTRG.13480.1
scaffold_32	23799474	23799804	MSTRG.13482.1	MSTRG.13482.1
scaffold_32	23803114	23803327	MSTRG.13484.1	MSTRG.13484.1
scaffold_32	23943193	23943415	MSTRG.13502.1	MSTRG.13502.1
scaffold_32	23943765	23944071	MSTRG.13503.1	MSTRG.13503.1
scaffold_32	24021343	24022038	MSTRG.13507.1	MSTRG.13507.1
scaffold_32	24020180	24020381	MSTRG.13508.1	MSTRG.13508.1

scaffold_32	23998982	24002147	MSTRG.13511.1	MSTRG.13511.1
scaffold_32	24032380	24036264	MSTRG.13512.1	MSTRG.13512.1
scaffold_32	24032649	24036264	MSTRG.13512.2	MSTRG.13512.2
scaffold_32	24032698	24036264	MSTRG.13512.3	MSTRG.13512.3
scaffold_32	24999993	25039744	MSTRG.13514.1	MSTRG.13514.1
scaffold_32	24057503	24057732	MSTRG.13515.1	MSTRG.13515.1
scaffold_32	25228588	25229426	MSTRG.13519.1	MSTRG.13519.1
scaffold_32	25576405	25579660	MSTRG.13535.1	MSTRG.13535.1
scaffold_32	25576405	25579660	MSTRG.13535.2	MSTRG.13535.2
scaffold_32	25992954	25993181	MSTRG.13545.1	MSTRG.13545.1
scaffold_32	26286111	26287565	MSTRG.13562.1	MSTRG.13562.1
scaffold_32	26541305	26563810	MSTRG.13576.1	MSTRG.13576.1
scaffold_32	26601144	26601375	MSTRG.13578.1	MSTRG.13578.1
scaffold_32	26605858	26606059	MSTRG.13579.1	MSTRG.13579.1
scaffold_32	26609467	26616525	MSTRG.13580.1	MSTRG.13580.1
scaffold_32	26609468	26615978	MSTRG.13581.1	MSTRG.13581.1
scaffold_32	26617164	26617886	MSTRG.13582.1	MSTRG.13582.1
scaffold_32	26801791	26803626	MSTRG.13590.1	MSTRG.13590.1
scaffold_32	26888140	26888572	MSTRG.13597.1	MSTRG.13597.1
scaffold_32	26895201	26901374	MSTRG.13601.1	MSTRG.13601.1
scaffold_32	26895231	26901013	MSTRG.13601.2	MSTRG.13601.2
scaffold_32	27010967	27019470	MSTRG.13608.1	MSTRG.13608.1
scaffold_32	27010967	27019470	MSTRG.13608.2	MSTRG.13608.2
scaffold_32	27011065	27019470	MSTRG.13608.3	MSTRG.13608.3
scaffold_32	27519547	27521383	MSTRG.13624.2	MSTRG.13624.2
scaffold_32	27523193	27542922	MSTRG.13624.3	MSTRG.13624.3
scaffold_32	27625420	27625627	MSTRG.13627.1	MSTRG.13627.1
scaffold_32	28269772	28270980	MSTRG.13650.1	MSTRG.13650.1
scaffold_32	28464153	28473871	MSTRG.13659.1	MSTRG.13659.1
scaffold_32	28562121	28595248	MSTRG.13660.5	MSTRG.13660.5
scaffold_32	28945551	28945985	MSTRG.13664.1	MSTRG.13664.1
scaffold_32	28961220	28961423	MSTRG.13665.1	MSTRG.13665.1
scaffold_32	28970572	28970776	MSTRG.13666.1	MSTRG.13666.1
scaffold_32	28789883	28940355	MSTRG.13667.1	MSTRG.13667.1
scaffold_32	28790930	28940355	MSTRG.13667.2	MSTRG.13667.2
scaffold_32	28790930	28940355	MSTRG.13667.3	MSTRG.13667.3
scaffold_32	28793406	28940355	MSTRG.13667.4	MSTRG.13667.4
scaffold_32	28794568	28940355	MSTRG.13667.5	MSTRG.13667.5
scaffold_32	29160984	29176380	MSTRG.13668.2	MSTRG.13668.2
scaffold_32	29074226	29074575	MSTRG.13671.1	MSTRG.13671.1
scaffold_32	29827859	29828059	MSTRG.13673.1	MSTRG.13673.1
scaffold_32	30265688	30271627	MSTRG.13675.1	MSTRG.13675.1
scaffold_32	30307068	30402412	MSTRG.13677.1	MSTRG.13677.1
scaffold_32	30308295	30402412	MSTRG.13677.2	MSTRG.13677.2
scaffold_32	30416058	30455030	MSTRG.13678.1	MSTRG.13678.1

scaffold_32	30416058	30455030	MSTRG.13678.2	MSTRG.13678.2
scaffold_32	30416101	30453835	MSTRG.13678.3	MSTRG.13678.3
scaffold_32	31141800	31142000	MSTRG.13682.1	MSTRG.13682.1
scaffold_32	31682725	31684927	MSTRG.13684.1	MSTRG.13684.1
scaffold_32	31789179	31796360	MSTRG.13685.1	MSTRG.13685.1
scaffold_32	32420775	32421029	MSTRG.13690.1	MSTRG.13690.1
scaffold_32	32513298	32522649	MSTRG.13693.5	MSTRG.13693.5
scaffold_32	32537599	32594287	MSTRG.13693.6	MSTRG.13693.6
scaffold_32	32538566	32594287	MSTRG.13693.7	MSTRG.13693.7
scaffold_32	32549385	32594287	MSTRG.13693.8	MSTRG.13693.8
scaffold_32	32532064	32532311	MSTRG.13694.1	MSTRG.13694.1
scaffold_32	32595493	32613203	MSTRG.13696.1	MSTRG.13696.1
scaffold_32	32595493	32613203	MSTRG.13696.2	MSTRG.13696.2
scaffold_32	32595493	32613203	MSTRG.13696.3	MSTRG.13696.3
scaffold_32	32595523	32613203	MSTRG.13696.4	MSTRG.13696.4
scaffold_32	32595524	32613203	MSTRG.13696.5	MSTRG.13696.5
scaffold_32	32595524	32613203	MSTRG.13696.6	MSTRG.13696.6
scaffold_32	32595524	32613203	MSTRG.13696.7	MSTRG.13696.7
scaffold_32	32651519	32727039	MSTRG.13699.1	MSTRG.13699.1
scaffold_32	32892082	32892349	MSTRG.13700.1	MSTRG.13700.1
scaffold_32	32897659	32930581	MSTRG.13702.1	MSTRG.13702.1
scaffold_32	32897739	32904977	MSTRG.13702.2	MSTRG.13702.2
scaffold_32	33060162	33061066	MSTRG.13707.1	MSTRG.13707.1
scaffold_32	33118971	33119506	MSTRG.13713.1	MSTRG.13713.1
scaffold_32	33365579	33378261	MSTRG.13719.2	MSTRG.13719.2
scaffold_32	33560904	33593238	MSTRG.13722.1	MSTRG.13722.1
scaffold_32	33560966	33593238	MSTRG.13722.2	MSTRG.13722.2
scaffold_32	33962701	33974829	MSTRG.13729.1	MSTRG.13729.1
scaffold_32	34173759	34180469	MSTRG.13734.2	MSTRG.13734.2
scaffold_32	34302165	34302421	MSTRG.13740.1	MSTRG.13740.1
scaffold_32	12665660	12823190	PTPRJ_g13589.t1	PTPRJ_g13589.t1
scaffold_32	32892455	32893261	S12A2_g14193.t1	S12A2_g14193.t1
scaffold_32	12113861	12120190	NR1H3_g13572.t1	NR1H3
scaffold_32	12514795	12565456	NU160_g13588.t1	NUP160
scaffold_32	25569336	25571795	NUD22_g13968.t1	NUD22
scaffold_32	25569533	25571795	MSTRG.13533.2	NUDT22
scaffold_32	28361312	28363289	NUDT8_g14111.t1	NUDT8
scaffold_32	12514000	12565456	MSTRG.13409.1	NUP160
scaffold_32	23982826	24013640	MSTRG.13510.3	NXF1
scaffold_32	23983099	23994858	NXF1_g13932.t1	NXF1
scaffold_32	16093158	16093571	O1030_g13677.t1	O1030
scaffold_32	16106170	16106589	O1030_g13678.t1	O1030
scaffold_32	16876366	16877304	O1030_g13702.t1	O1030
scaffold_32	16906960	16907898	O1030_g13704.t1	O1030
scaffold_32	14519515	14520150	O10AG_g13639.t1	OR10AG1

scaffold_32	20802084	20802950	O10V1_g13838.t1	O10V1
scaffold_32	20802084	20803022	O10V1_g13838.t2	O10V1
scaffold_32	34281084	34284200	ODF3A_g14250.t2	ODF3A
scaffold_32	1763951	1835159	ODPX_g13508.t1	PDHX
scaffold_32	20457241	20458188	OR4D6_g13822.t1	OR4D6
scaffold_32	16085869	16086816	OR5MA_g13676.t1	OR5MA
scaffold_32	16140002	16141051	OR8J3_g13680.t1	OR8J3
scaffold_32	29829575	29836887	MSTRG.13674.2	LTO1
scaffold_32	29829518	29836887	MSTRG.13674.1	ORAOV1
scaffold_32	32652495	32688514	OSBL5_g14187.t1	OSBPL5
scaffold_32	20721312	20750828	OSBP1_g13836.t1	OSBP1
scaffold_32	32656930	32674214	MSTRG.13699.3	OSBPL5
scaffold_32	25366110	25373118	OTUB1_g13962.t1	OTUB1
scaffold_32	26836861	26846323	OVOL1_g14032.t1	OVOL1
scaffold_32	17723640	17752307	P2RX3_g13722.t1	P2RX3
scaffold_32	9175023	9179299	MSTRG.13348.2	P2RY4
scaffold_32	10098876	10102537	P5I11_g13541.t1	P5I11
scaffold_32	20707881	20708597	PACS1_g13835.t1	SCYL3
scaffold_32	27080523	27223027	MSTRG.13611.1	PACS1
scaffold_32	12054473	12062426	MSTRG.13391.1	PACSIN3
scaffold_32	12054473	12063420	MSTRG.13391.2	PACSIN3
scaffold_32	12054473	12062426	MSTRG.13391.3	PACSIN3
scaffold_32	12054473	12062426	MSTRG.13391.4	PACSIN3
scaffold_32	20763887	20793038	MSTRG.13441.1	PATL1
scaffold_32	20763980	20793038	MSTRG.13441.2	PATL1
scaffold_32	20763980	20793038	MSTRG.13441.3	PATL1
scaffold_32	20763980	20777448	MSTRG.13441.4	PATL1
scaffold_32	27762741	27865443	MSTRG.13632.2	PC
scaffold_32	27762741	27865769	MSTRG.13632.1	PC
scaffold_32	27762741	27865769	MSTRG.13632.3	PC
scaffold_32	27762888	27816671	MSTRG.13632.4	PC
scaffold_32	26718577	26739907	MSTRG.13588.1	PCNX3
scaffold_32	26718927	26739907	MSTRG.13588.2	PCNX3
scaffold_32	26719074	26739907	MSTRG.13588.3	PCNX3
scaffold_32	21798210	21799406	PD2R2_g13864.t1	PD2R2
scaffold_32	27411352	27419839	PELI3_g14068.t1	PELI3
scaffold_32	22230585	22236702	PEPA5_g13879.t1	PGA5
scaffold_32	33003489	33010174	MSTRG.13705.2	PERK
scaffold_32	10971719	10982763	MSTRG.13370.2	PEX16
scaffold_32	10975559	10982763	MSTRG.13370.4	PEX16
scaffold_32	9061664	9165979	MSTRG.13346.2	PEX3
scaffold_32	10997200	11137542	PF21A_g13554.t1	PHF21A
scaffold_32	10992640	11174665	MSTRG.13374.1	PHF21A
scaffold_32	10992640	11174665	MSTRG.13374.2	PHF21A
scaffold_32	10996805	11174665	MSTRG.13374.3	PHF21A

scaffold_32	10996805	11174665	MSTRG.13374.4	PHF21A
scaffold_32	10999334	11010109	MSTRG.13374.6	PHF21A
scaffold_32	32467924	32468354	PHLA2_g14185.t1	PHLA2
scaffold_32	32466469	32468354	MSTRG.13692.1	PHLDA2
scaffold_32	33086107	33092637	MSTRG.13710.1	PIDD1
scaffold_32	28253101	28258257	PITM1_g14104.t1	PITPNM1
scaffold_32	28258313	28264928	PITM1_g14104.t2	PITPNM1
scaffold_32	28252591	28266043	MSTRG.13648.1	PITPNM1
scaffold_32	24032991	24034392	PKN3_g13937.t2	PKN3
scaffold_32	24983035	24993802	PLAT2_g13951.t1	PLAAT2
scaffold_32	24874750	24898840	PLAT5_g13948.t1	PLAT5
scaffold_32	25591845	25608656	MSTRG.13539.2	PLCB3
scaffold_32	25591901	25608656	MSTRG.13539.3	PLCB3
scaffold_32	25591901	25608656	MSTRG.13539.4	PLCB3
scaffold_32	25592003	25606649	PLCB3_g13972.t1	PLCB3
scaffold_32	25591845	25608656	MSTRG.13539.1	PLCB3
scaffold_32	33099706	33106096	MSTRG.13712.1	PNPLA2
scaffold_32	26437085	26442913	MSTRG.13572.2	POLA2
scaffold_32	28180667	28183578	PP1A_g14096.t1	PPP1CA
scaffold_32	26133399	26141826	MSTRG.13556.1	PPP2R5B
scaffold_32	10343605	10343932	MSTRG.13360.1	PRDM11
scaffold_32	25645423	25648041	PRDX5_g13979.t1	PRDX5
scaffold_32	25645273	25648041	PRDX5_g13979.t2	PRDX5
scaffold_32	17758876	17761510	PRG3_g13723.t1	PRG3
scaffold_32	21828284	21838602	PRP19_g13866.t1	PRPF19
scaffold_32	31595230	31596639	PRR33_g14165.t1	PRR33
scaffold_32	3069965	3120468	PRR5L_g13517.t1	PRR5L
scaffold_32	3069887	3120468	PRR5L_g13517.t2	PRR5L
scaffold_32	12229976	12235956	PRS6A_g13577.t1	PRS6A
scaffold_32	33977146	33977394	MSTRG.13730.1	PTDSS2
scaffold_32	33977687	33980473	MSTRG.13731.2	PTDSS2
scaffold_32	12351162	12355904	PTPM1_g13580.t1	PTPM1
scaffold_32	12351152	12355904	MSTRG.13403.1	PTPMT1
scaffold_32	10342052	10343045	MSTRG.13359.1	PTPN2
scaffold_32	33036594	33048089	PTPRC_g14200.t1	PTPRC
scaffold_32	12691216	12691421	MSTRG.13414.1	PTPRJ
scaffold_32	12824416	12826290	MSTRG.13416.1	PTPRJ
scaffold_32	27777796	27867041	PYC_g14085.t1	PYC
scaffold_32	25984449	25995530	PYGM_g13986.t1	PYGM
scaffold_32	22953544	22970647	R3GEF_g13899.t1	R3GEF
scaffold_32	27242290	27248209	RAB1B_g14056.t1	RAB1B
scaffold_32	28174423	28180014	RAD9A_g14095.t1	RAD9A
scaffold_32	28174292	28180014	MSTRG.13640.1	RAD9A
scaffold_32	34267979	34274742	MSTRG.13738.1	RAP1GAP2
scaffold_32	34267979	34274742	MSTRG.13738.2	RAP1GAP2

scaffold_32	12246824	12255613	RAPSN_g13578.t1	RAPSN
scaffold_32	32887171	32889433	RASF7_g14192.t1	RASSF7
scaffold_32	32857073	32858646	RASH_g14189.t1	RASH
scaffold_32	32889532	32889733	MSTRG.13698.1	RASSF7
scaffold_32	27554929	27564779	RBM14_g14076.t1	RBM14
scaffold_32	27554830	27578752	MSTRG.13628.1	RBM14
scaffold_32	27554844	27594902	MSTRG.13628.2	RBM14
scaffold_32	27555450	27562349	MSTRG.13628.4	RBM14
scaffold_32	27572030	27578752	RBM4_g14077.t1	RBM4
scaffold_32	27601787	27605957	RBM4_g14079.t1	RBM4
scaffold_32	27591864	27606911	MSTRG.13629.1	RBM4B
scaffold_32	27591864	27606911	MSTRG.13629.2	RBM4B
scaffold_32	27592022	27606911	MSTRG.13629.3	RBM4B
scaffold_32	27595986	27606911	MSTRG.13629.4	RBM4B
scaffold_32	27595991	27606911	MSTRG.13629.5	RBM4B
scaffold_32	27595991	27606911	MSTRG.13629.6	RBM4B
scaffold_32	27599944	27600611	RBM4B_g14078.t1	RBM4B
scaffold_32	862261	872480	RBTN2_g13497.t1	RBTN2
scaffold_32	27758114	27761282	MSTRG.13630.3	RCE1
scaffold_32	27758461	27761282	MSTRG.13630.5	RCE1
scaffold_32	27758108	27761282	MSTRG.13630.1	RCE1
scaffold_32	27758108	27761282	MSTRG.13630.2	RCE1
scaffold_32	25311463	25315355	RCOR2_g13958.t1	RCOR2
scaffold_32	26754979	26764951	MSTRG.13592.1	RELA
scaffold_32	26472890	26485128	REQU_g14014.t1	REQU
scaffold_32	27301304	27305661	MSTRG.13616.1	RFXANK
scaffold_32	11641972	11655445	RHG01_g13562.t1	RHG01
scaffold_32	27934719	27943332	RHOD_g14088.t1	RHOD
scaffold_32	34268635	34274742	RIC8A_g14248.t1	RIC8A
scaffold_32	27295331	27300268	RIN1_g14061.t1	RIN1
scaffold_32	33968872	33974829	RINI_g14232.t1	RINI
scaffold_32	33095442	33097258	RLA2_g14206.t1	RLA2
scaffold_32	27390214	27392894	RM11_g14067.t1	RM11
scaffold_32	20909721	20913550	RM16_g13844.t1	MRPL16
scaffold_32	29163074	29176380	RM21_g14127.t1	MRPL21
scaffold_32	31639674	31647891	RM23_g14167.t1	MRPL23
scaffold_32	31639575	31647891	RM23_g14167.t2	MRPL23
scaffold_32	26287752	26290160	RM49_g14009.t1	MRPL49
scaffold_32	26287740	26290160	RM49_g14009.t2	MRPL49
scaffold_32	26804238	26808687	MSTRG.13591.1	RNASEH2C
scaffold_32	33966593	33974829	MSTRG.13729.4	RNH1
scaffold_32	26804831	26806610	RNH2C_g14029.t1	RNH2C
scaffold_32	23849670	23851198	ROM1_g13914.t1	ROM1
scaffold_32	23849565	23851198	ROM1_g13914.t2	ROM1
scaffold_32	33119943	33121328	RPAB5_g14210.t1	RPAB5

scaffold_32	28673402	28687995	RPB1_g14120.t1	POLR2A
scaffold_32	23960006	23963298	RPB7_g13928.t1	POLR2G
scaffold_32	33095219	33097258	MSTRG.13711.1	RPLP2
scaffold_32	25683037	25683258	MSTRG.13541.1	RPS6KA4
scaffold_32	25112035	25172833	MSTRG.13518.1	RTN3
scaffold_32	25112179	25172833	RTN3_g13954.t1	RTN3
scaffold_32	6355530	6355760	RUXG_g13527.t1	SNRPG
scaffold_32	21865822	21879601	S15A3_g13869.t2	S15A3
scaffold_32	32443146	32464613	S22AI_g14184.t1	SLC22A18
scaffold_32	27320025	27327405	S29A2_g14065.t1	SLC29A2
scaffold_32	26221962	26224492	SAC31_g14000.t1	SAC3D1
scaffold_32	26221962	26224492	MSTRG.13561.1	SAC3D1
scaffold_32	26977035	26999273	MSTRG.13607.2	SART1
scaffold_32	26196084	26202054	SC24D_g13997.t1	SEC24D
scaffold_32	23584411	23586595	MSTRG.13477.1	SCGB2A2
scaffold_32	26632369	26645088	MSTRG.13583.1	SCYL1
scaffold_32	26632425	26645088	SCYL1_g14018.t1	SCYL1
scaffold_32	22473644	22490602	PPR32_g13889.t2	SDHAF2
scaffold_32	22473602	22496796	MSTRG.13456.1	SDHAF2
scaffold_32	30903771	30904091	SERC5_g14149.t1	SERC5
scaffold_32	17989890	18001375	MSTRG.13422.1	SERPING1
scaffold_32	26001287	26013964	SF01_g13987.t1	SF01
scaffold_32	26000063	26013964	MSTRG.13548.1	SF1
scaffold_32	26000063	26013964	MSTRG.13548.2	SF1
scaffold_32	26000065	26013964	MSTRG.13548.3	SF1
scaffold_32	27063049	27079028	SF3B2_g14053.t1	SF3B2
scaffold_32	34286212	34286538	SG1C1_g14251.t1	SCGB1C1
scaffold_32	23584411	23586075	SG2A2_g13906.t1	SCGB2A2
scaffold_32	30474646	30965312	SHAN2_g14146.t1	SHANK2
scaffold_32	33963099	33974829	MSTRG.13729.2	SIM2
scaffold_32	33963381	33974829	MSTRG.13729.3	SIM2
scaffold_32	26743125	26752152	SIPA1_g14026.t1	SIPA1
scaffold_32	26740613	26752152	MSTRG.13594.1	SIPA2
scaffold_32	34234186	34265118	SIR3_g14247.t1	SIR3
scaffold_32	34233900	34234115	MSTRG.13736.1	SIRT3
scaffold_32	34260132	34266704	MSTRG.13737.2	SIRT3
scaffold_32	29577714	29578196	SKIT5_g14134.t1	SKIT5
scaffold_32	27319040	27327405	MSTRG.13618.1	SLC29A2
scaffold_32	12219948	12227565	MSTRG.13399.1	SLC39A13
scaffold_32	12219948	12227565	MSTRG.13399.2	SLC39A13
scaffold_32	12219955	12227565	MSTRG.13399.3	SLC39A13
scaffold_32	12219955	12227565	MSTRG.13399.4	SLC39A13
scaffold_32	12224174	12227565	MSTRG.13399.7	SLC39A13
scaffold_32	24036216	24056330	MSTRG.13513.1	SLC3A2
scaffold_32	403435	403653	MSTRG.13312.1	SMAD3

scaffold_32	12228778	12228994	MSTRG.13396.1	SMARCD2
scaffold_32	29176509	29204138	SMBP2_g14128.t1	IGHMBP2
scaffold_32	26979569	26998967	SNUT1_g14045.t1	SART1
scaffold_32	26212906	26220915	SNX15_g13999.t1	SNX15
scaffold_32	26212837	26221429	MSTRG.13560.1	SNX15
scaffold_32	26876125	26887656	SNX32_g14034.t1	SNX32
scaffold_32	33121674	33146248	MSTRG.13716.1	SOCS3
scaffold_32	33123478	33146248	MSTRG.13716.3	SOCS3
scaffold_32	12180239	12197489	SPI1_g13575.t1	SPI1
scaffold_32	25229727	25243309	MSTRG.13522.1	SPINDOC
scaffold_32	25229727	25241205	SPNDC_g13956.t1	SPNDC
scaffold_32	27612892	27643891	SPTN2_g14080.t1	SPTN2
scaffold_32	28109862	28117652	MSTRG.13638.1	SSH3
scaffold_32	28109985	28117652	SSH3_g14092.t1	SSH3
scaffold_32	17712473	17721748	MSTRG.13418.1	SSRP1
scaffold_32	17713019	17721087	SSRP1_g13721.t1	SSRP1
scaffold_32	26675956	26679894	MSTRG.13586.1	SSSCA1
scaffold_32	26676122	26679894	MSTRG.13586.2	SSSCA1
scaffold_32	26676225	26679894	MSTRG.13586.3	SSSCA1
scaffold_32	25534005	25545974	STIP1_g13966.t1	STIP1
scaffold_32	25533189	25545974	MSTRG.13531.1	STIP1
scaffold_32	23818263	23829223	STPAP_g13911.t1	TUT1
scaffold_32	20902539	20913550	MSTRG.13443.1	STX3
scaffold_32	20866259	20906142	STX3_g13843.t1	STX3
scaffold_32	24002923	24013640	MSTRG.13510.7	STX5
scaffold_32	23994859	24012692	STX5_g13933.t1	STX5
scaffold_32	23994859	24012715	STX5_g13933.t2	STX5
scaffold_32	32481298	32594287	SYCC_g14186.t1	CARS1
scaffold_32	22541955	22542313	MSTRG.13459.1	SYT7
scaffold_32	22543403	22586330	MSTRG.13460.1	SYT7
scaffold_32	22544103	22601714	SYT7_g13891.t1	SYT7
scaffold_32	26292368	26298918	MSTRG.13569.1	SYVN1
scaffold_32	26292474	26297963	SYVN1_g14010.t1	SYVN1
scaffold_32	26971785	26979568	T10IP_g14044.t1	T10IP
scaffold_32	107503	144035	T11L1_g13487.t1	T11L1
scaffold_32	21854067	21865744	T132A_g13868.t1	T132A
scaffold_32	27263110	27266739	T151A_g14059.t1	T151A
scaffold_32	23979128	23981586	T179B_g13930.t1	T179B
scaffold_32	23967341	23981586	MSTRG.13509.1	TAF6L
scaffold_32	23969959	23979127	TAF6L_g13929.t1	TAF6L
scaffold_32	33048554	33057316	TALDO_g14201.t1	TALDO1P1
scaffold_32	28185041	28190536	TB10C_g14097.t1	TB10C
scaffold_32	17688196	17708491	TB182_g13720.t1	TNKS1BP1
scaffold_32	28455066	28462307	MSTRG.13658.3	TCIRG1
scaffold_32	20943418	20954913	TCO1_g13846.t1	TCN1

scaffold_32	104800	150041	MSTRG.13310.1	TCP11L1
scaffold_32	104963	137083	MSTRG.13310.2	TCP11L1
scaffold_32	105157	107665	MSTRG.13310.3	TCP11L1
scaffold_32	11674212	11692500	THRB_g13564.t1	THRB
scaffold_32	26489319	26490734	TIGD3_g14015.t1	TIGD3
scaffold_32	17932309	17933879	TIM10_g13727.t1	TIMM10
scaffold_32	17931894	17934406	MSTRG.13421.1	TIMM10
scaffold_32	22405194	22417683	MSTRG.13451.1	TKFC
scaffold_32	22406671	22417683	TKFC_g13885.t1	TKFC
scaffold_32	21849540	21852858	TM109_g13867.t1	TMEM109
scaffold_32	28236726	28241116	TM134_g14102.t1	TMEM134
scaffold_32	22430929	22435310	TM138_g13887.t1	TMEM138
scaffold_32	22442266	22445947	TM138_g13887.t2	TMEM138
scaffold_32	23981583	23982759	TM223_g13931.t1	TM223
scaffold_32	22776820	22779192	TM258_g13894.t1	TM258
scaffold_32	26263041	26263606	TM262_g14004.t1	TMEM262
scaffold_32	21843670	21852858	MSTRG.13447.1	TMEM109
scaffold_32	21853881	21865744	MSTRG.13448.1	TMEM132A
scaffold_32	22428884	22435310	MSTRG.13454.1	TMEM138
scaffold_32	22429025	22435310	MSTRG.13454.2	TMEM138
scaffold_32	22429137	22435310	MSTRG.13454.3	TMEM138
scaffold_32	22442266	22447140	MSTRG.13453.1	TMEM216
scaffold_32	22442269	22447140	MSTRG.13453.3	TMEM216
scaffold_32	23981797	24013640	MSTRG.13510.2	TMEM223
scaffold_32	26258901	26263041	MSTRG.13565.2	TMEM262
scaffold_32	26258901	26263041	MSTRG.13565.3	TMEM262
scaffold_32	26258901	26282208	MSTRG.13565.1	TMEM262
scaffold_32	26258915	26263041	MSTRG.13565.4	TMEM262
scaffold_32	26263356	26264941	MSTRG.13567.1	TMEM262
scaffold_32	33006979	33010174	ES8L2_g14199.t1	TMEM80
scaffold_32	18082617	18086179	MSTRG.13428.2	TMX2
scaffold_32	18078224	18086179	TMX2_g13737.t1	TMX2
scaffold_32	11639009	11639837	MSTRG.13381.1	TNKS1BP1
scaffold_32	17687298	17711539	MSTRG.13417.1	TNKS1BP1
scaffold_32	17687298	17711539	MSTRG.13417.2	TNKS1BP1
scaffold_32	28425286	28447315	MSTRG.13657.1	TNS4
scaffold_32	27663155	27757885	TO6BL_g14081.t2	TO6BL
scaffold_32	33563437	33593238	TOLIP_g14220.t1	TOLIP
scaffold_32	29292452	29320016	TPC2_g14132.t1	TPCN2
scaffold_32	25643849	25644539	TR112_g13978.t1	TR112
scaffold_32	3142632	3154261	TRAF6_g13518.t1	TRAF6
scaffold_32	2428501	2546797	MSTRG.13330.1	TRIM44
scaffold_32	31995022	32012524	TRPM5_g14177.t1	TRPM5
scaffold_32	25566963	25568987	TRPT1_g13967.t1	TRPT1
scaffold_32	25566963	25569041	TRPT1_g13967.t2	TRPT1

scaffold_32	10029110	10093594	TSN18_g13540.t1	TSN18
scaffold_32	31922390	31937339	TSN32_g14174.t1	TSN32
scaffold_32	33130648	33146248	TSN4_g14212.t1	TSN4
scaffold_32	31971084	31989141	MSTRG.13686.1	TSPAN11
scaffold_32	31992624	31994216	TSSC4_g14176.t1	TSSC4
scaffold_32	31989851	31994216	MSTRG.13687.1	TSSC4
scaffold_32	8744408	8842584	TTC17_g13529.t1	TTC17
scaffold_32	23934738	23946637	MSTRG.13499.1	TTC9C
scaffold_32	23940781	23941007	MSTRG.13500.1	TTC9C
scaffold_32	23941332	23941544	MSTRG.13501.1	TTC9C
scaffold_32	23934738	23940645	TTC9C_g13926.t1	TTC9C
scaffold_32	17953896	17964364	UB2L6_g13729.t1	UBE2L6
scaffold_32	17953162	17953366	MSTRG.13420.1	UBE2L6
scaffold_32	26286157	26287210	UBIM_g14008.t1	UBIM
scaffold_32	23892311	23895042	UBXN1_g13921.t1	UBXN1
scaffold_32	28402803	28413021	UN93B_g14115.t1	UN93B
scaffold_32	28402322	28402528	MSTRG.13654.1	UNC93B1
scaffold_32	23889525	23889884	UQCC3_g13920.t1	UQCC3
scaffold_32	33952155	33952366	MSTRG.13727.1	USP6NL
scaffold_32	23699318	23702238	UTER_g13908.t1	UTER
scaffold_32	25576484	25578602	VEGFB_g13970.t1	VEGFB
scaffold_32	22030257	22036914	VP37C_g13874.t1	VP37C
scaffold_32	22028519	22057142	MSTRG.13449.1	VPS37C
scaffold_32	22028519	22041925	MSTRG.13449.2	VPS37C
scaffold_32	22028954	22039197	MSTRG.13449.3	VPS37C
scaffold_32	26266944	26277612	MSTRG.13565.7	VPS51
scaffold_32	26266883	26277612	VPS51_g14005.t1	VPS51
scaffold_32	22342894	22374157	VWCE_g13883.t1	VWCE
scaffold_32	24014475	24019887	WDR74_g13936.t1	WDR74
scaffold_32	27256477	27260467	YIF1A_g14058.t1	YIF1A
scaffold_32	18028352	18029493	YPEL4_g13731.t1	YPEL4
scaffold_32	10913939	10914302	MSTRG.13364.1	ZBTB26
scaffold_32	23946659	23948221	ZBTB3_g13927.t1	ZBTB3
scaffold_32	27479579	27484848	ZDH24_g14071.t1	ZDHHC24
scaffold_32	18049775	18068705	ZDHC5_g13735.t1	ZDHHC5
scaffold_32	27474763	27484848	MSTRG.13621.1	ZDHHC24
scaffold_32	27476752	27484848	MSTRG.13621.2	ZDHHC24
scaffold_32	18044636	18069507	MSTRG.13425.1	ZDHHC5
scaffold_32	18045033	18069507	MSTRG.13425.2	ZDHHC5
scaffold_32	18045039	18069507	MSTRG.13425.3	ZDHHC5
scaffold_32	18045418	18069507	MSTRG.13425.4	ZDHHC5
scaffold_32	3136848	3159194	MSTRG.13342.1	ZFHX3
scaffold_32	19489788	19534113	MSTRG.13435.1	ZFP91
scaffold_32	19489907	19531268	ZFP91_g13793.t1	ZFP91
scaffold_32	26259378	26263041	ZFPL1_g14003.t1	ZFPL1

scaffold_32	25176269	25181568	ZFTA_g13955.t1	ZFTA
scaffold_32	26883160	26883383	MSTRG.13596.1	ZMPSTE24
scaffold_32	11659727	11666430	ZN408_g13563.t1	ZNF408
scaffold_32	11659727	11666430	MSTRG.13386.1	ZNF408
scaffold_32	28860732	28940355	MSTRG.13667.6	ZNF655
scaffold_32	28252638	28266043	MSTRG.13648.2	ZNF667
scaffold_32	26282214	26283410	ZNHI2_g14007.t1	ZNHIT2
scaffold_32	26676225	26678375	ZNRD2_g14020.t1	ZNRD2
scaffold_33	8840941	8881557	2AAA_g14461.t1	PPP2R1A
scaffold_33	253235	256841	A1BG_g14271.t1	A1BG
scaffold_33	15196693	15206455	AAAT_g14667.t1	SLC1A5
scaffold_33	27586588	27586889	MSTRG.14366.1	AADACL2
scaffold_33	11612524	11616548	MSTRG.13948.2	ACP4
scaffold_33	23080078	23153665	MSTRG.14234.1	ACTN1
scaffold_33	23081555	23153665	ACTN4_g14873.t1	ACTN4
scaffold_33	3865588	3866136	MSTRG.13849.1	ADCK1
scaffold_33	21746015	21751886	MSTRG.14186.5	COQ8B
scaffold_33	28410426	28424870	MSTRG.14382.1	AKAP13
scaffold_33	25282654	25362866	MSTRG.14297.1	AKR1D1
scaffold_33	25282757	25333250	MSTRG.14297.2	AKR1D1
scaffold_33	12268028	12276318	MSTRG.13964.1	AKT1S1
scaffold_33	12268028	12276318	MSTRG.13964.2	AKT1S1
scaffold_33	12268920	12276318	MSTRG.13964.3	AKT1S1
scaffold_33	12270471	12276318	MSTRG.13964.5	AKT1S1
scaffold_33	22041088	22070772	AKT2_g14835.t1	AKT2
scaffold_33	22022945	22070772	MSTRG.14203.1	AKT2
scaffold_33	22022991	22070772	MSTRG.14203.2	AKT2
scaffold_33	22069554	22070879	MSTRG.14204.1	AKT2
scaffold_33	12268946	12276318	AKTS1_g14553.t1	AKT1S1
scaffold_33	12600658	12615431	MSTRG.13982.1	ALDH16A1
scaffold_33	12606265	12630526	MSTRG.13982.3	ALDH16A1
scaffold_33	12621602	12636399	MSTRG.13982.4	ALDH16A1
scaffold_33	1233112	1250059	MSTRG.13779.1	ALDH1L2
scaffold_33	14785232	14785440	MSTRG.14036.1	ALDH1L2
scaffold_33	27144184	27149515	MSTRG.14344.1	ALKBH6
scaffold_33	24330482	24330689	MSTRG.14270.1	ANKAR
scaffold_33	12425453	12435314	ANM1_g14562.t1	PRMT1
scaffold_33	12888493	12889464	ANO2_g14590.t1	ANO2
scaffold_33	29357493	29396523	ANR27_g15008.t1	ANKRD27
scaffold_33	12334490	12367056	AP2A1_g14559.t1	AP2A1
scaffold_33	15140226	15149323	AP2S1_g14666.t1	AP2S1
scaffold_33	17266892	17269659	APOE_g14731.t1	APOE
scaffold_33	17273920	17275246	APOE_g14731.t2	APOE
scaffold_33	19031069	19050424	ARHG1_g14777.t1	ARHGEF1
scaffold_33	26966079	26978984	MSTRG.14339.1	ARHGAP33

scaffold_33	15012446	15129912	MSTRG.14045.1	ARHGAP35
scaffold_33	19031009	19051141	MSTRG.14150.1	ARHGEF1
scaffold_33	19031069	19051141	MSTRG.14150.2	ARHGEF1
scaffold_33	19048575	19051141	MSTRG.14150.4	ARHGEF1
scaffold_33	26176222	26196321	ASTRA_g14926.t1	GRAMD1A
scaffold_33	19093121	19095506	AT1A3_g14779.t1	ATP1A3
scaffold_33	19099749	19119854	AT1A3_g14779.t2	ATP1A3
scaffold_33	12213049	12214959	ATF5_g14548.t1	ATF5
scaffold_33	12212273	12216312	MSTRG.13960.1	ATF5
scaffold_33	12216189	12241467	MSTRG.13961.1	ATF5
scaffold_33	26623915	26638211	ATP4A_g14946.t1	ATP4A
scaffold_33	26623492	26633175	MSTRG.14327.1	ATP4A
scaffold_33	26636227	26638211	MSTRG.14327.3	ATP4A
scaffold_33	20570012	20575179	MSTRG.14174.4	DMAC1
scaffold_33	2945976	2949440	AURKC_g14326.t1	AURKC
scaffold_33	3290085	3322383	MSTRG.13832.1	AVEN
scaffold_33	3290085	3322383	MSTRG.13832.2	AVEN
scaffold_33	20695658	20725438	MSTRG.14180.1	AXL
scaffold_33	20698532	20725438	MSTRG.14180.2	AXL
scaffold_33	20711343	20725438	MSTRG.14180.4	AXL
scaffold_33	20569662	20579620	B3GN8_g14800.t1	B3GNT8
scaffold_33	20578427	20579620	B3GN8_g14801.t1	B3GNT8
scaffold_33	9395595	9417923	MSTRG.13927.9	B3GNT5
scaffold_33	9766126	9780245	B4GT3_g14490.t1	B4GALT3
scaffold_33	20622092	20629078	B9D2_g14805.t1	B9D2
scaffold_33	20621378	20644006	MSTRG.14177.1	B9D2
scaffold_33	20621608	20629078	MSTRG.14177.2	B9D2
scaffold_33	29199845	29221996	BAT1_g15004.t1	DDX39B
scaffold_33	13002983	13006772	BAX_g14602.t1	BAX
scaffold_33	14820038	14824090	BBC3_g14659.t1	BBC3
scaffold_33	17371641	17378027	BCAM_g14736.t1	BCAM
scaffold_33	17369971	17380138	MSTRG.14111.1	BCAM
scaffold_33	13116412	13129816	BCAT2_g14609.t1	BCAT2
scaffold_33	13116263	13129816	MSTRG.13999.4	BCAT2
scaffold_33	13116490	13129816	MSTRG.13999.6	BCAT2
scaffold_33	12441426	12447278	MSTRG.13971.1	BCL2L12
scaffold_33	12443697	12447278	MSTRG.13971.2	BCL2L12
scaffold_33	25900782	25901849	BGAT_g14923.t1	BGAT
scaffold_33	14438680	14461066	BICRA_g14650.t1	BICRA
scaffold_33	14444738	14508485	MSTRG.14027.2	BIRCA
scaffold_33	17060233	17060840	BL1S3_g14719.t1	BLOC1S3
scaffold_33	3999811	4028755	MSTRG.13851.1	BLCAP
scaffold_33	21915467	21926539	BLVRB_g14829.t1	BLVRB
scaffold_33	4955030	4974808	BRSK1_g14397.t1	BRSK1
scaffold_33	21997518	22009440	CS047_g14834.t1	C19ORF47

scaffold_33	21990527	22009440	MSTRG.14197.1	C19ORF47
scaffold_33	21990532	22009440	MSTRG.14197.2	C19ORF47
scaffold_33	21994657	21997866	MSTRG.14197.4	C19ORF47
scaffold_33	21709368	21716145	MSTRG.14184.2	ACTMAP
scaffold_33	10310476	10310716	MSTRG.13933.1	FAM200B
scaffold_33	14751145	14752194	C5AR1_g14657.t1	C5AR1
scaffold_33	14737111	14738139	C5AR2_g14656.t1	C5AR2
scaffold_33	14732203	14735743	MSTRG.14033.1	C5AR2
scaffold_33	14733796	14742848	MSTRG.14034.1	C5AR2
scaffold_33	18300165	18313326	CADM4_g14758.t1	CADM4
scaffold_33	18313679	18314221	MSTRG.14137.1	CADM4
scaffold_33	13249136	13254300	CAH11_g14617.t1	CA11
scaffold_33	15324667	15332293	CALM_g14674.t1	CALM3
scaffold_33	15323008	15324568	MSTRG.14055.1	CALM3
scaffold_33	27254999	27256267	MSTRG.14352.1	CAPNS1
scaffold_33	4687976	4690907	CC106_g14375.t1	CCDC106
scaffold_33	16374539	16405265	CCD61_g14687.t1	CCDC61
scaffold_33	20649516	20662065	CCD97_g14807.t1	CCDC97
scaffold_33	4686042	4691315	MSTRG.13859.1	CCDC106
scaffold_33	4687450	4691315	MSTRG.13859.2	CCDC106
scaffold_33	4687450	4691847	MSTRG.13859.3	CCDC106
scaffold_33	16374342	16398699	MSTRG.14074.1	CCDC61
scaffold_33	16374344	16398699	MSTRG.14074.2	CCDC61
scaffold_33	16374345	16398699	MSTRG.14074.3	CCDC61
scaffold_33	16374345	16398699	MSTRG.14074.4	CCDC61
scaffold_33	14787831	14800700	MSTRG.14041.1	CCDC9
scaffold_33	14787836	14799600	MSTRG.14041.2	CCDC9
scaffold_33	14787908	14800700	MSTRG.14041.3	CCDC9
scaffold_33	14787836	14792315	MSTRG.14042.1	CCDC9
scaffold_33	22919939	22922016	CCER2_g14866.t1	CCER2
scaffold_33	27814696	27825988	MSTRG.14381.1	CCL22
scaffold_33	31755746	31764194	CCNE1_g15020.t1	CCNE1
scaffold_33	31757475	31764194	MSTRG.14409.2	CCNE1
scaffold_33	22075422	22079284	CCNP_g14836.t1	CCNP
scaffold_33	12724721	12728956	CD37_g14585.t1	CD37
scaffold_33	31574853	31575108	MSTRG.14406.1	CDS1
scaffold_33	17450463	17453802	CEA16_g14739.t1	CEACAM16
scaffold_33	17466819	17482455	CEA19_g14740.t1	CEACAM19
scaffold_33	18962072	18972111	CEA21_g14774.t1	CEACAM21
scaffold_33	19992415	19995920	CEA21_g14796.t1	CEACAM21
scaffold_33	19548837	19581010	CEAM1_g14793.t1	CEACAM1
scaffold_33	19742047	19760787	CEAM1_g14794.t1	CEACAM1
scaffold_33	20060954	20075549	CEAM1_g14797.t1	CEACAM1
scaffold_33	28843028	28844092	CEBPA_g14996.t1	CEBPA
scaffold_33	28757688	28758231	CEBPG_g14995.t1	CEBPG

scaffold_33	28753382	28764439	MSTRG.14384.1	CEBPG
scaffold_33	13394810	13400583	MSTRG.14010.1	CENPB
scaffold_33	29111582	29185580	CEP89_g15003.t1	CEP89
scaffold_33	29111499	29187517	MSTRG.14389.1	CEP89
scaffold_33	29111499	29116139	MSTRG.14389.2	CEP89
scaffold_33	29111507	29188007	MSTRG.14389.3	CEP89
scaffold_33	37729	39602	CHM2A_g14257.t1	CHMP2A
scaffold_33	37654	39602	CHM2A_g14257.t2	CHMP2A
scaffold_33	36092	39602	MSTRG.13744.1	CHMP2A
scaffold_33	36994	39602	MSTRG.13744.3	CHMP2A
scaffold_33	19357803	19368865	CIC_g14787.t1	CIC
scaffold_33	19342987	19368865	MSTRG.14162.1	CIC
scaffold_33	19342987	19368865	MSTRG.14162.2	CIC
scaffold_33	19342990	19368865	MSTRG.14162.3	CIC
scaffold_33	19346154	19364483	MSTRG.14162.4	CIC
scaffold_33	17142732	17165182	CLASR_g14725.t1	CLASRP
scaffold_33	17142603	17166206	MSTRG.14105.1	CLASRP
scaffold_33	17142653	17166206	MSTRG.14105.2	CLASRP
scaffold_33	11664158	11666014	CLC11_g14524.t1	CLEC11A
scaffold_33	10339920	10341531	CLDN2_g14501.t1	CLDN2
scaffold_33	10340744	10363403	MSTRG.13939.1	CLDND2
scaffold_33	10342344	10345901	MSTRG.13940.1	CLDND2
scaffold_33	27151716	27161365	CLIP3_g14971.t1	CLIP3
scaffold_33	27149944	27150198	MSTRG.14343.1	CLIP3
scaffold_33	17196118	17223983	CLPT1_g14727.t1	CLPTM1
scaffold_33	17191725	17196117	MSTRG.14106.5	CLPTM1
scaffold_33	19434080	19434448	LIPS_g14792.t2	CNFN
scaffold_33	6481497	6492913	CNOT3_g14427.t1	CNOT3
scaffold_33	6481456	6497775	MSTRG.13892.3	CNOT3
scaffold_33	6481459	6497775	MSTRG.13892.4	CNOT3
scaffold_33	34323935	34324403	CO6A5_g15031.t1	COL6A5
scaffold_33	21736350	21752944	COQ8B_g14824.t1	COQ8B
scaffold_33	26857598	26865399	MSTRG.14331.1	COX6B1
scaffold_33	27263467	27265722	MSTRG.14355.2	COX7A1
scaffold_33	20734004	20744215	CP2S1_g14810.t1	CYP2S1
scaffold_33	27256399	27262384	CPNS1_g14977.t1	CAPNS1
scaffold_33	12402015	12421687	CPT1C_g14561.t1	CPT1C
scaffold_33	31843722	31848710	CS012_g15021.t1	C19ORF12
scaffold_33	21710017	21716145	CS054_g14822.t1	ACTMAP
scaffold_33	6962579	6967364	CTR3_g14439.t1	SLC7A3
scaffold_33	23361091	23386952	CTSRG_g14883.t1	CATSPERG
scaffold_33	9761204	9764032	CTU1_g14489.t1	CTU1
scaffold_33	27263188	27265722	CX7A1_g14978.t1	COX7A1
scaffold_33	26950365	26958542	MSTRG.14338.1	CYBRD1
scaffold_33	13374860	13383111	CYH2_g14627.t1	CYTH2

scaffold_33	21669689	21669906	MSTRG.14179.1	CYP2C9
scaffold_33	13373935	13383111	MSTRG.14009.1	CYTH2
scaffold_33	29501712	29577289	D19L3_g15010.t1	DPY19L3
scaffold_33	5066655	5072350	DAAF3_g14401.t1	DNAAF3
scaffold_33	15287147	15295173	DACT3_g14671.t1	DACT3
scaffold_33	13255444	13260525	DBP_g14618.t1	DBP
scaffold_33	13255432	13260525	DBP_g14618.t2	DBP
scaffold_33	24256715	24256930	MSTRG.14265.1	DCUN1D5
scaffold_33	19287102	19301998	DEDD2_g14783.t1	DEDD2
scaffold_33	19285417	19302730	MSTRG.14156.1	DEDD2
scaffold_33	19286262	19302730	MSTRG.14156.2	DEDD2
scaffold_33	13087894	13115574	DHB14_g14608.t1	HSD17B14
scaffold_33	13012008	13019847	DHDH_g14603.t1	DHDH
scaffold_33	14317558	14317824	DHPR_g14647.t1	QDPR
scaffold_33	14704123	14722023	DHX34_g14655.t1	DHX34
scaffold_33	14703330	14703547	MSTRG.14031.1	DHX34
scaffold_33	14715474	14722023	MSTRG.14032.2	DHX34
scaffold_33	14724801	14731704	MSTRG.14038.1	DHX34
scaffold_33	14724801	14730383	MSTRG.14038.2	DHX34
scaffold_33	14724801	14730383	MSTRG.14038.3	DHX34
scaffold_33	14724801	14730383	MSTRG.14038.4	DHX34
scaffold_33	12703006	12706934	DKKL1_g14583.t1	DKKL1
scaffold_33	12702932	12707399	MSTRG.13981.1	DKKL1
scaffold_33	12706008	12708127	MSTRG.13981.3	DKKL1
scaffold_33	22445580	22453982	DLL3_g14846.t1	DLL3
scaffold_33	26578448	26595145	DMKN_g14941.t2	DMKN
scaffold_33	26587702	26593215	MSTRG.14319.6	DMKN
scaffold_33	16574989	16585311	MSTRG.14084.1	DMPK
scaffold_33	16574990	16585311	MSTRG.14084.2	DMPK
scaffold_33	16575002	16585311	MSTRG.14084.3	DMPK
scaffold_33	16566802	16573042	DMWD_g14695.t1	DMWD
scaffold_33	16566802	16573824	MSTRG.14077.1	DMWD
scaffold_33	16567023	16573824	MSTRG.14077.3	DMWD
scaffold_33	16567167	16573824	MSTRG.14077.4	DMWD
scaffold_33	13766770	13818180	DNLI1_g14640.t1	LIG1
scaffold_33	23492730	23500369	DPF1_g14889.t2	DPF1
scaffold_33	11887898	11903536	DPOD1_g14537.t1	POLD1
scaffold_33	29497358	29579256	MSTRG.14401.3	DPY19L3
scaffold_33	29498005	29579256	MSTRG.14401.4	DPY19L3
scaffold_33	29498005	29579256	MSTRG.14401.5	DPY19L3
scaffold_33	29498234	29579256	MSTRG.14401.6	DPY19L3
scaffold_33	22327865	22337570	DYR1B_g14843.t1	DYRK1B
scaffold_33	22338718	22347173	DYR1B_g14843.t2	DYRK1B
scaffold_33	22337870	22358086	MSTRG.14211.1	DYRK1B
scaffold_33	22341256	22347173	MSTRG.14211.3	DYRK1B

scaffold_33	11282382	11284957	KLK14_g14511.t1	EARS2
scaffold_33	22992044	22999537	ECH1_g14871.t1	ECH1
scaffold_33	32704404	32704742	EF2_g15028.t1	EEF2
scaffold_33	21672032	21679759	EGLN2_g14818.t1	EGLN2
scaffold_33	21671176	21680855	MSTRG.14181.1	EGLN2
scaffold_33	14410254	14425822	EHD2_g14649.t1	EHD2
scaffold_33	22405896	22406844	EID2_g14844.t1	EID2
scaffold_33	22405943	22406595	MSTRG.14210.2	EID2
scaffold_33	23158925	23168922	EIF3K_g14874.t1	EIF3K
scaffold_33	16668500	16686769	EMAL2_g14702.t1	EML2
scaffold_33	11840995	11846290	EMC10_g14533.t1	EMC10
scaffold_33	11838456	11846290	MSTRG.13950.1	EMC10
scaffold_33	11838456	11846290	MSTRG.13950.2	EMC10
scaffold_33	13479147	13481632	EMP3_g14634.t1	EMP3
scaffold_33	13478970	13482738	MSTRG.14013.1	EMP3
scaffold_33	29344873	29345073	MSTRG.14391.1	EPB41
scaffold_33	4652540	4665665	EPN1_g14373.t1	EPN1
scaffold_33	4651728	4668838	MSTRG.13854.1	EPN1
scaffold_33	16860937	16872613	ERCC1_g14710.t1	ERCC1
scaffold_33	16860402	16872613	MSTRG.14092.1	ERCC1
scaffold_33	16904237	16916110	MSTRG.14095.4	ERCC2
scaffold_33	13439512	13445732	ERD21_g14631.t1	KDELR1
scaffold_33	19326744	19333115	ERF_g14786.t1	ERF
scaffold_33	19051926	19056853	ERFL_g14778.t1	ERFL
scaffold_33	20569656	20575179	MSTRG.14174.2	ERICH4
scaffold_33	20569651	20575179	MSTRG.14174.1	ERICH4
scaffold_33	5123817	5134038	ES8L1_g14404.t1	EPS8L1
scaffold_33	13831502	13844440	ESPB1_g14642.t1	ELSPBP1
scaffold_33	10322568	10339152	ETFB_g14500.t1	ETFB
scaffold_33	18395837	18410038	ETHE1_g14766.t1	ETHE1
scaffold_33	13058208	13061851	MSTRG.13996.1	ETV2
scaffold_33	13058208	13061851	MSTRG.13996.2	ETV2
scaffold_33	13058208	13061851	MSTRG.13996.3	ETV2
scaffold_33	13058208	13061851	MSTRG.13996.4	ETV2
scaffold_33	13058257	13061851	MSTRG.13996.5	ETV2
scaffold_33	20598323	20606482	EXOS5_g14803.t1	EXOSC5
scaffold_33	11846650	11851365	F71E1_g14534.t1	F71E1
scaffold_33	4910918	4915243	F71E2_g14393.t1	F71E2
scaffold_33	13275436	13283228	FA83E_g14621.t1	FA83E
scaffold_33	29107867	29111197	MSTRG.14387.1	FAAP24
scaffold_33	17058880	17061498	MSTRG.14098.1	EEIG1
scaffold_33	17058880	17061498	MSTRG.14098.2	FAM102A
scaffold_33	26613945	26618827	MSTRG.14323.2	FAM193B
scaffold_33	22467180	22494741	MSTRG.14215.1	FAM227A
scaffold_33	22467180	22494741	MSTRG.14215.2	FAM227A

scaffold_33	11850605	11854144	MSTRG.13951.2	GARIN5A
scaffold_33	29108689	29111197	FAP24_g15002.t1	FAAP24
scaffold_33	22897305	22903158	FBX17_g14864.t1	FBX17
scaffold_33	22839297	22844791	FBX27_g14863.t1	FBX27
scaffold_33	16624159	16626566	FBX46_g14699.t1	FBXO46
scaffold_33	22715205	22717794	FBX50_g14860.t2	FBX50
scaffold_33	22877970	22878234	MSTRG.14223.1	FBXO17
scaffold_33	22281632	22319829	FCGBP_g14842.t1	FCGBP
scaffold_33	12544858	12558633	FCGRN_g14571.t1	FCGRN
scaffold_33	12544421	12558633	MSTRG.13978.1	FCGRT
scaffold_33	12544476	12558608	MSTRG.13978.2	FCGRT
scaffold_33	12544563	12558633	MSTRG.13978.3	FCGRT
scaffold_33	4735322	4742992	MSTRG.13864.1	FIZ1
scaffold_33	15213040	15214566	FKRP_g14668.t1	FKRP
scaffold_33	15210779	15219706	MSTRG.14049.1	FKRP
scaffold_33	12587042	12595137	FLT3L_g14574.t1	FLT3L
scaffold_33	1665891	1739939	MSTRG.13793.5	FLVCR2
scaffold_33	16826431	16831162	FOSB_g14709.t1	FOSB
scaffold_33	16823046	16831162	MSTRG.14091.1	FOSB
scaffold_33	16823046	16831162	MSTRG.14091.2	FOSB
scaffold_33	16501798	16507720	FOXA3_g14692.t1	FOXA3
scaffold_33	12284001	12293166	MSTRG.13966.1	FOXN4
scaffold_33	12284029	12293166	MSTRG.13966.2	FOXN4
scaffold_33	12284516	12293029	PTOV1_g14555.t1	FOXN4
scaffold_33	9565562	9566617	FPR2_g14481.t1	FPR2
scaffold_33	13164205	13166605	FUT1_g14611.t2	FUT1
scaffold_33	13163375	13166605	MSTRG.14002.1	FUT1
scaffold_33	13162562	13162772	MSTRG.13998.1	FUT1
scaffold_33	13224917	13225941	SEC1_g14615.t1	FUT2
scaffold_33	13208154	13209242	FUT2_g14614.t1	FUT2
scaffold_33	13224913	13240039	MSTRG.14004.2	FUT2
scaffold_33	12334309	12367056	MSTRG.13969.1	FUZ
scaffold_33	12329426	12334499	FUZZY_g14558.t1	FUZ
scaffold_33	26265090	26267944	MSTRG.14316.2	FXYD3
scaffold_33	26264387	26267944	MSTRG.14316.1	FXYD3
scaffold_33	26292380	26304653	FXYD5_g14931.t2	FXYD5
scaffold_33	2014949	2015282	MSTRG.13802.1	GALNT7
scaffold_33	26607898	26608859	MSTRG.14322.1	GAPDHS
scaffold_33	26611692	26613942	MSTRG.14324.1	GAPDHS
scaffold_33	17128462	17128865	GEMI7_g14722.t1	GEMI7
scaffold_33	17128462	17136305	GEMI7_g14723.t1	GEMI7
scaffold_33	17128180	17136305	MSTRG.14100.1	GEMIN7
scaffold_33	23333260	23336292	GGN_g14881.t2	GGN
scaffold_33	13826092	13827919	MSTRG.14024.1	GJB4
scaffold_33	29006943	29047069	MSTRG.14386.1	GPATCH1

scaffold_33	16702742	16703830	GPR4_g14703.t1	GPR4
scaffold_33	29007667	29047069	GPTC1_g15000.t1	GPTC1
scaffold_33	19124810	19176975	GRIK5_g14780.t1	GRIK5
scaffold_33	19124248	19181369	MSTRG.14153.2	GRIK5
scaffold_33	19124251	19181369	MSTRG.14153.4	GRIK5
scaffold_33	19181963	19182184	MSTRG.14152.1	GRIK5
scaffold_33	19124248	19181369	MSTRG.14153.1	GRIK5
scaffold_33	19124249	19181369	MSTRG.14153.3	GRIK5
scaffold_33	19126628	19129539	MSTRG.14153.6	GRIK5
scaffold_33	23303722	23312813	GRP4_g14877.t1	RASGRP4
scaffold_33	13395594	13400583	GRWD1_g14629.t1	GRWD1
scaffold_33	19312238	19321218	GSK3A_g14785.t1	GSK3A
scaffold_33	21735904	21753208	MSTRG.14186.1	GYPA
scaffold_33	21736601	21753208	MSTRG.14186.3	GYPA
scaffold_33	12981866	12995607	GYS1_g14600.t1	GYS1
scaffold_33	12993833	12995607	MSTRG.13990.2	GYS1
scaffold_33	26826967	26836567	HAUS5_g14947.t1	HAUS5
scaffold_33	26826916	26836567	HAUS5_g14947.t2	HAUS5
scaffold_33	26826886	26837361	MSTRG.14329.1	HAUS5
scaffold_33	27726899	27727435	HEAT6_g14987.t1	HEATR6
scaffold_33	21964744	21970980	HIPK4_g14832.t1	HIPK4
scaffold_33	28069160	28090368	MSTRG.14372.1	HMCES
scaffold_33	20662066	20695005	HNRL1_g14808.t1	HNRNPUL1
scaffold_33	22975423	22989946	MSTRG.14229.1	HNRNPL
scaffold_33	22977803	22989946	HNRPL_g14870.t1	HNRNPL
scaffold_33	4980131	4993183	HPBP1_g14398.t1	HSPBP1
scaffold_33	26947712	26949250	HSPB6_g14958.t1	HSPB6
scaffold_33	4979542	4993183	MSTRG.13874.1	HSPBP1
scaffold_33	14313091	14356717	MSTRG.14019.2	HST
scaffold_33	16491477	16493228	I2BP1_g14691.t1	I2BP1
scaffold_33	16881123	16890752	IASPP_g14712.t1	PPP1R13L
scaffold_33	27586923	27594853	MSTRG.14367.1	MTIF2
scaffold_33	22609143	22610720	IFNL1_g14858.t1	IFNL1
scaffold_33	26934482	26936118	IGFR1_g14954.t1	IGFR1
scaffold_33	10293049	10308230	IGLO5_g14498.t1	IGLON5
scaffold_33	18240578	18241972	IIGP5_g14756.t1	IIGP5
scaffold_33	22922415	22930515	IKBB_g14867.t1	IKBB
scaffold_33	27054735	27060933	IKBD_g14965.t1	NFKBID
scaffold_33	23412483	23413227	IMUP_g14886.t1	IMUP
scaffold_33	14786265	14787512	MSTRG.14037.1	INAFM1
scaffold_33	21717726	21732830	IP3KC_g14823.t1	ITPKC
scaffold_33	12448383	12453608	IRF3_g14564.t1	IRF3
scaffold_33	12447341	12453608	MSTRG.13972.1	IRF3
scaffold_33	4841255	4847846	MSTRG.13868.1	ISOC2
scaffold_33	21716444	21732830	MSTRG.14185.1	ITPKC

scaffold_33	12085643	12095741	IZUM2_g14543.t1	IZUM2
scaffold_33	11820605	11824475	JOS2_g14531.t1	JOSD2
scaffold_33	11819901	11824475	MSTRG.13949.1	JOSD2
scaffold_33	11819902	11824475	MSTRG.13949.2	JOSD2
scaffold_33	15530173	15552886	MSTRG.14058.1	KANSL3
scaffold_33	12664155	12700659	KASH5_g14582.t1	KASH5
scaffold_33	13386598	13389620	KCJ14_g14628.t1	KCJ14
scaffold_33	11944627	11952920	KCNC3_g14540.t1	KCNC3
scaffold_33	13374698	13382468	MSTRG.14009.2	KCNJ14
scaffold_33	13374860	13382468	MSTRG.14009.3	KCNJ14
scaffold_33	23394194	23401383	KCNK6_g14884.t1	KCNK6
scaffold_33	16933826	16940822	KCRM_g14715.t1	CKM
scaffold_33	28410426	28424870	MSTRG.14382.2	KCTD15
scaffold_33	17889086	17891832	KIZ_g14748.t1	KIZ
scaffold_33	16915304	16920079	KLC3_g14714.t1	KLC3
scaffold_33	11566305	11586848	MSTRG.13943.1	KLK1
scaffold_33	11344507	11347039	KLK11_g14513.t1	KLK11
scaffold_33	26914681	26933765	KMT2B_g14953.t1	KMT2B
scaffold_33	26914473	26933765	MSTRG.14332.1	KMT2B
scaffold_33	4925287	4930424	KMT5C_g14395.t1	KMT5C
scaffold_33	4924400	4932941	MSTRG.13873.1	KMT5C
scaffold_33	15248361	15280812	KPCD2_g14670.t1	KPCD2
scaffold_33	5842288	5851727	LAIR1_g14417.t1	LAIR1
scaffold_33	15510093	15512828	MSTRG.14057.1	LAMC3
scaffold_33	6478043	6481187	LENG1_g14426.t1	LENG1
scaffold_33	6478043	6481187	MSTRG.13891.1	LENG1
scaffold_33	6481191	6497775	MSTRG.13892.1	LENG1
scaffold_33	6481191	6497775	MSTRG.13892.2	LENG1
scaffold_33	5919386	5928835	LENG8_g14418.t1	LENG8
scaffold_33	5897010	5913084	LENG8_g14418.t2	LENG8
scaffold_33	5917611	5928835	MSTRG.13885.1	LENG8
scaffold_33	5917611	5928835	MSTRG.13885.2	LENG8
scaffold_33	5930046	5931632	LENG9_g14419.t1	LENG9
scaffold_33	23000775	23002521	MSTRG.14231.1	LGALS4
scaffold_33	23005319	23008756	MSTRG.14233.1	LGALS4
scaffold_33	26269579	26276409	LGI4_g14930.t1	LGI4
scaffold_33	13766770	13825987	MSTRG.14023.1	LIG1
scaffold_33	13780882	13787500	MSTRG.14023.3	LIG1
scaffold_33	6425482	6425704	MSTRG.13888.1	LILRB3
scaffold_33	5992140	5997334	MSTRG.13889.1	LILRB4
scaffold_33	12911115	12915116	LIN7B_g14593.t1	LIN7B
scaffold_33	12889521	12905558	LIPA3_g14591.t1	PPFIA3
scaffold_33	19449268	19460815	MSTRG.14170.2	LIPE
scaffold_33	5253507	5260351	LIRA5_g14408.t1	LILRA5
scaffold_33	6260261	6263428	LIRA5_g14423.t2	LILRA5

scaffold_33	5584026	5587989	LIRA6_g14411.t1	LILRA6
scaffold_33	5781939	5789871	LIRA6_g14416.t1	LILRA6
scaffold_33	10359541	10364809	LMIP_g14503.t1	LMIP
scaffold_33	5097926	5120804	MSTRG.13880.2	LMTK3
scaffold_33	5097926	5120804	MSTRG.13880.3	LMTK3
scaffold_33	4789228	4789602	LOC000000031_g14383.t1	LOC000000031
scaffold_33	11607886	11615287	MSTRG.13947.4	LOC106780914
scaffold_33	11790854	11813660	LRC4B_g14529.t1	LRC4B
scaffold_33	11790806	11813660	LRC4B_g14529.t2	LRC4B
scaffold_33	27094859	27099163	LRFN3_g14967.t1	LRFN3
scaffold_33	28922865	28934424	LRP3_g14998.t1	LRP3
scaffold_33	13718656	13718918	MSTRG.14016.1	LRRC2
scaffold_33	24853082	24861751	LRRT1_g14905.t1	LRRTM1
scaffold_33	25202964	25253141	LS14A_g14912.t1	LSM14A
scaffold_33	12960202	12961266	LSHB_g14598.t1	LHB
scaffold_33	25202787	25258453	MSTRG.14296.1	LSM14A
scaffold_33	25202964	25258453	MSTRG.14296.2	LSM14A
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scaffold_33	26380367	26394391	LSR_g14933.t2	LSR
scaffold_33	26379871	26394391	MSTRG.14317.1	LSR
scaffold_33	21798968	21825790	LTBP4_g14826.t1	LTBP4
scaffold_33	11913285	11920203	MSTRG.13954.1	NR1H3
scaffold_33	11913830	11920203	MSTRG.13954.2	NR1H3
scaffold_33	11913830	11920203	MSTRG.13954.3	NR1H3
scaffold_33	11913837	11918714	MSTRG.13954.4	NR1H3
scaffold_33	18437811	18441362	LYPD3_g14768.t1	LYPD3
scaffold_33	22083631	22099557	M3K10_g14838.t1	MAP3K10
scaffold_33	23170306	23185780	M4K1_g14875.t1	MAP4K1
scaffold_33	26415831	26426382	MAG_g14936.t1	MAG
scaffold_33	22085222	22099557	MSTRG.14200.3	MAP3K10
scaffold_33	22085222	22099557	MSTRG.14200.4	MAP3K10
scaffold_33	22083631	22085221	MSTRG.14200.2	MAPK9
scaffold_33	16945155	16973024	MARK4_g14716.t1	MARK4
scaffold_33	22222533	22222762	MSTRG.14202.1	MAVS
scaffold_33	6451597	6463976	MSTRG.13890.2	MBOAT7
scaffold_33	6451593	6463976	MSTRG.13890.1	MBOAT7
scaffold_33	21932685	21932887	MSTRG.14191.1	MED13L
scaffold_33	12307267	12320851	MED25_g14557.t1	MED25
scaffold_33	12302407	12320851	MSTRG.13967.1	MED25
scaffold_33	22529907	22532678	MED29_g14853.t1	MED29
scaffold_33	22525819	22532389	MSTRG.14218.1	MED29
scaffold_33	19388573	19428884	MEGF8_g14791.t1	MEGF8
scaffold_33	19387945	19430250	MSTRG.14163.1	MEGF8
scaffold_33	19388054	19428884	MSTRG.14163.2	MEGF8
scaffold_33	27742043	27747702	MSTRG.14377.2	MEPCE

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scaffold_33	15809892	15812105	MILL2_g14685.t1	MICB
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scaffold_33	15645037	15645293	MSTRG.14063.1	MRGPRD
scaffold_33	15511544	15512828	MSTRG.14057.2	MSN
scaffold_33	6735955	6741954	MSTRG.13901.1	MYADM
scaffold_33	6735955	6740031	MSTRG.13901.2	MYADM
scaffold_33	6736948	6737918	MYADM_g14435.t1	MYADM
scaffold_33	11995341	12059693	MSTRG.13956.2	MYH14
scaffold_33	11853318	11878316	MYPC2_g14535.t1	MYPC2
scaffold_33	16481040	16489208	MSTRG.14075.1	MYPOP
scaffold_33	16481862	16488610	MYPOP_g14690.t1	MYPOP
scaffold_33	18628	28418	MSTRG.13742.2	MZF1
scaffold_33	20191	28418	MZF1_g14254.t1	MZF1
scaffold_33	20026	28418	MZF1_g14254.t2	MZF1
scaffold_33	241530	246200	MZF1_g14270.t1	MZF1
scaffold_33	18367	28418	MSTRG.13742.1	MZF1
scaffold_33	14623611	14630872	NAC2_g14653.t1	NAC2
scaffold_33	11939162	11959586	MSTRG.13955.2	NAPSA
scaffold_33	6528256	6530687	NDUA3_g14430.t1	NDUFA3
scaffold_33	17338934	17364331	NECT2_g14735.t1	NECT2
scaffold_33	17345154	17364331	MSTRG.14107.2	NECTIN2
scaffold_33	13233738	13240296	NET5_g14616.t1	NET5
scaffold_33	10343735	10345901	NKG7_g14502.t1	NKG7
scaffold_33	17061905	17071909	NKPD1_g14720.t1	NKPD1
scaffold_33	17075320	17083293	NKPD1_g14720.t2	NKPD1
scaffold_33	31924401	31926065	NLRP3_g15023.t1	NLRP3
scaffold_33	14399067	14407406	NOP53_g14648.t1	NOP53
scaffold_33	12509723	12525019	MSTRG.13976.1	NOSIP
scaffold_33	12509751	12525019	MSTRG.13976.2	NOSIP
scaffold_33	12519662	12525019	NOSIP_g14569.t1	NOSIP
scaffold_33	3605223	3626177	AGRG6_g14346.t1	AGRG6_g14346.t1
scaffold_33	20598106	20606482	EXOS5_g14803.t2	EXOS5_g14803.t2
scaffold_33	11606009	11615287	FV1_g14522.t1	FV1_g14522.t1
scaffold_33	27275945	27277450	FV1_g14979.t1	FV1_g14979.t1
scaffold_33	25369704	25396437	G6PI_g14914.t1	G6PI_g14914.t1
scaffold_33	224813	233760	MSTRG.13754.1	MSTRG.13754.1
scaffold_33	288022	314117	MSTRG.13756.5	MSTRG.13756.5
scaffold_33	397539	413621	MSTRG.13758.1	MSTRG.13758.1
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scaffold_33	434302	500358	MSTRG.13761.2	MSTRG.13761.2
scaffold_33	486273	493294	MSTRG.13761.4	MSTRG.13761.4
scaffold_33	486273	500358	MSTRG.13761.5	MSTRG.13761.5

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scaffold_33	759923	760229	MSTRG.13767.1	MSTRG.13767.1
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scaffold_33	1052086	1078120	MSTRG.13778.1	MSTRG.13778.1
scaffold_33	1193460	1194164	MSTRG.13782.1	MSTRG.13782.1
scaffold_33	1348078	1358793	MSTRG.13784.1	MSTRG.13784.1
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scaffold_33	1549416	1549661	MSTRG.13786.1	MSTRG.13786.1
scaffold_33	1287126	1296633	MSTRG.13791.6	MSTRG.13791.6
scaffold_33	1292667	1297591	MSTRG.13791.8	MSTRG.13791.8
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scaffold_33	1656049	1739423	MSTRG.13793.2	MSTRG.13793.2
scaffold_33	1656049	1739423	MSTRG.13793.3	MSTRG.13793.3
scaffold_33	1609580	1609802	MSTRG.13796.1	MSTRG.13796.1
scaffold_33	1885965	1886187	MSTRG.13798.1	MSTRG.13798.1
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scaffold_33	1905646	1905865	MSTRG.13801.1	MSTRG.13801.1
scaffold_33	2491521	2491745	MSTRG.13809.1	MSTRG.13809.1
scaffold_33	2620655	2621192	MSTRG.13812.1	MSTRG.13812.1
scaffold_33	2626334	2629375	MSTRG.13813.2	MSTRG.13813.2
scaffold_33	2633060	2633264	MSTRG.13814.1	MSTRG.13814.1
scaffold_33	2801254	2803417	MSTRG.13818.1	MSTRG.13818.1
scaffold_33	2868080	2868382	MSTRG.13819.1	MSTRG.13819.1
scaffold_33	2707094	2758431	MSTRG.13821.2	MSTRG.13821.2
scaffold_33	2721476	2747632	MSTRG.13821.3	MSTRG.13821.3
scaffold_33	2747734	2750885	MSTRG.13822.1	MSTRG.13822.1
scaffold_33	2918692	2918912	MSTRG.13825.1	MSTRG.13825.1
scaffold_33	2826938	2849411	MSTRG.13826.1	MSTRG.13826.1
scaffold_33	2945857	2949545	MSTRG.13830.1	MSTRG.13830.1
scaffold_33	2945857	2949545	MSTRG.13830.2	MSTRG.13830.2
scaffold_33	2955177	2981394	MSTRG.13831.1	MSTRG.13831.1
scaffold_33	3585247	3585449	MSTRG.13834.1	MSTRG.13834.1
scaffold_33	3598576	3598777	MSTRG.13836.1	MSTRG.13836.1
scaffold_33	3599613	3599873	MSTRG.13837.1	MSTRG.13837.1
scaffold_33	3640522	3641458	MSTRG.13841.1	MSTRG.13841.1
scaffold_33	3647342	3669290	MSTRG.13842.1	MSTRG.13842.1
scaffold_33	3731605	3738152	MSTRG.13844.1	MSTRG.13844.1
scaffold_33	4649137	4651136	MSTRG.13852.1	MSTRG.13852.1
scaffold_33	4885805	4886031	MSTRG.13870.1	MSTRG.13870.1
scaffold_33	5024165	5026425	MSTRG.13876.1	MSTRG.13876.1
scaffold_33	5475709	5475918	MSTRG.13881.1	MSTRG.13881.1
scaffold_33	6540126	6540482	MSTRG.13896.1	MSTRG.13896.1
scaffold_33	7402424	7405044	MSTRG.13903.1	MSTRG.13903.1

scaffold_33	7405093	7435666	MSTRG.13904.1	MSTRG.13904.1
scaffold_33	7435828	7463728	MSTRG.13906.1	MSTRG.13906.1
scaffold_33	7802201	7802487	MSTRG.13909.1	MSTRG.13909.1
scaffold_33	8498204	8514589	MSTRG.13919.1	MSTRG.13919.1
scaffold_33	8832903	8833110	MSTRG.13922.1	MSTRG.13922.1
scaffold_33	9461846	9491250	MSTRG.13924.2	MSTRG.13924.2
scaffold_33	9597418	9597619	MSTRG.13926.1	MSTRG.13926.1
scaffold_33	9357840	9413059	MSTRG.13927.6	MSTRG.13927.6
scaffold_33	9645163	9645381	MSTRG.13930.1	MSTRG.13930.1
scaffold_33	9647517	9647743	MSTRG.13931.1	MSTRG.13931.1
scaffold_33	10347084	10347298	MSTRG.13941.1	MSTRG.13941.1
scaffold_33	11606122	11615287	MSTRG.13947.2	MSTRG.13947.2
scaffold_33	11606122	11615287	MSTRG.13947.3	MSTRG.13947.3
scaffold_33	11609965	11616548	MSTRG.13948.1	MSTRG.13948.1
scaffold_33	12147544	12175152	MSTRG.13959.2	MSTRG.13959.2
scaffold_33	12147544	12175152	MSTRG.13959.3	MSTRG.13959.3
scaffold_33	12635729	12640935	MSTRG.13984.1	MSTRG.13984.1
scaffold_33	12997504	12997734	MSTRG.13992.1	MSTRG.13992.1
scaffold_33	13098109	13100116	MSTRG.14000.1	MSTRG.14000.1
scaffold_33	13120219	13123865	MSTRG.14001.1	MSTRG.14001.1
scaffold_33	13223413	13240039	MSTRG.14004.1	MSTRG.14004.1
scaffold_33	13719484	13719835	MSTRG.14017.1	MSTRG.14017.1
scaffold_33	13826106	13827919	MSTRG.14024.2	MSTRG.14024.2
scaffold_33	14407521	14428125	MSTRG.14026.1	MSTRG.14026.1
scaffold_33	14702330	14702853	MSTRG.14029.1	MSTRG.14029.1
scaffold_33	14785793	14786000	MSTRG.14035.1	MSTRG.14035.1
scaffold_33	14819510	14819905	MSTRG.14039.1	MSTRG.14039.1
scaffold_33	14824953	14898647	MSTRG.14043.1	MSTRG.14043.1
scaffold_33	15216894	15219706	MSTRG.14049.3	MSTRG.14049.3
scaffold_33	15456847	15457103	MSTRG.14053.1	MSTRG.14053.1
scaffold_33	15672072	15672280	MSTRG.14059.1	MSTRG.14059.1
scaffold_33	15668226	15671733	MSTRG.14060.1	MSTRG.14060.1
scaffold_33	15643785	15644005	MSTRG.14062.1	MSTRG.14062.1
scaffold_33	15672629	15730878	MSTRG.14064.1	MSTRG.14064.1
scaffold_33	15730267	15730878	MSTRG.14064.2	MSTRG.14064.2
scaffold_33	15728389	15730203	MSTRG.14065.1	MSTRG.14065.1
scaffold_33	15767856	15780790	MSTRG.14067.1	MSTRG.14067.1
scaffold_33	15777390	15777672	MSTRG.14068.1	MSTRG.14068.1
scaffold_33	15804703	15809056	MSTRG.14070.1	MSTRG.14070.1
scaffold_33	15809948	15811387	MSTRG.14071.2	MSTRG.14071.2
scaffold_33	16371812	16372068	MSTRG.14073.1	MSTRG.14073.1
scaffold_33	16629427	16629678	MSTRG.14080.1	MSTRG.14080.1
scaffold_33	16613599	16627003	MSTRG.14081.1	MSTRG.14081.1
scaffold_33	16586193	16590295	MSTRG.14085.1	MSTRG.14085.1
scaffold_33	16711880	16712093	MSTRG.14088.1	MSTRG.14088.1

scaffold_33	16874817	16890752	MSTRG.14094.1	MSTRG.14094.1
scaffold_33	16875489	16890752	MSTRG.14094.2	MSTRG.14094.2
scaffold_33	16875489	16890752	MSTRG.14094.3	MSTRG.14094.3
scaffold_33	16875728	16890752	MSTRG.14094.4	MSTRG.14094.4
scaffold_33	16899750	16916110	MSTRG.14095.1	MSTRG.14095.1
scaffold_33	16899750	16904178	MSTRG.14095.2	MSTRG.14095.2
scaffold_33	17539469	17539700	MSTRG.14115.1	MSTRG.14115.1
scaffold_33	17593261	17613979	MSTRG.14116.1	MSTRG.14116.1
scaffold_33	17640104	17646441	MSTRG.14118.1	MSTRG.14118.1
scaffold_33	17709961	17743583	MSTRG.14121.1	MSTRG.14121.1
scaffold_33	17723857	17743583	MSTRG.14121.2	MSTRG.14121.2
scaffold_33	17849738	17849944	MSTRG.14123.1	MSTRG.14123.1
scaffold_33	17889086	17892385	MSTRG.14125.1	MSTRG.14125.1
scaffold_33	18075896	18076120	MSTRG.14126.1	MSTRG.14126.1
scaffold_33	17980879	17981085	MSTRG.14128.1	MSTRG.14128.1
scaffold_33	18002297	18002510	MSTRG.14129.1	MSTRG.14129.1
scaffold_33	18054530	18054750	MSTRG.14131.1	MSTRG.14131.1
scaffold_33	18334820	18337909	MSTRG.14139.2	MSTRG.14139.2
scaffold_33	18334821	18342532	MSTRG.14139.3	MSTRG.14139.3
scaffold_33	18967797	18968002	MSTRG.14147.1	MSTRG.14147.1
scaffold_33	19285129	19285336	MSTRG.14155.1	MSTRG.14155.1
scaffold_33	19357695	19368865	MSTRG.14162.5	MSTRG.14162.5
scaffold_33	19790899	19791147	MSTRG.14164.1	MSTRG.14164.1
scaffold_33	19825335	19825541	MSTRG.14166.1	MSTRG.14166.1
scaffold_33	20294119	20294464	MSTRG.14168.1	MSTRG.14168.1
scaffold_33	20431836	20432056	MSTRG.14169.1	MSTRG.14169.1
scaffold_33	19795971	19805145	MSTRG.14171.1	MSTRG.14171.1
scaffold_33	19797094	19804832	MSTRG.14171.2	MSTRG.14171.2
scaffold_33	19861389	19862142	MSTRG.14173.1	MSTRG.14173.1
scaffold_33	20644116	20695005	MSTRG.14178.1	MSTRG.14178.1
scaffold_33	21709262	21713485	MSTRG.14184.1	MSTRG.14184.1
scaffold_33	21743991	21752944	MSTRG.14186.4	MSTRG.14186.4
scaffold_33	21873123	21873330	MSTRG.14190.1	MSTRG.14190.1
scaffold_33	21939366	21942237	MSTRG.14193.1	MSTRG.14193.1
scaffold_33	21942797	21943027	MSTRG.14195.1	MSTRG.14195.1
scaffold_33	21994371	22009440	MSTRG.14197.3	MSTRG.14197.3
scaffold_33	22002440	22002645	MSTRG.14198.1	MSTRG.14198.1
scaffold_33	22284505	22284720	MSTRG.14207.1	MSTRG.14207.1
scaffold_33	22373744	22374296	MSTRG.14209.1	MSTRG.14209.1
scaffold_33	22990430	22990649	MSTRG.14230.1	MSTRG.14230.1
scaffold_33	23083201	23083404	MSTRG.14235.1	MSTRG.14235.1
scaffold_33	23305617	23305898	MSTRG.14238.1	MSTRG.14238.1
scaffold_33	23224870	23225087	MSTRG.14241.1	MSTRG.14241.1
scaffold_33	23251524	23256564	MSTRG.14242.1	MSTRG.14242.1
scaffold_33	23404097	23412330	MSTRG.14244.1	MSTRG.14244.1

scaffold_33	23404123	23412330	MSTRG.14244.2	MSTRG.14244.2
scaffold_33	23517366	23517585	MSTRG.14247.1	MSTRG.14247.1
scaffold_33	23504095	23504725	MSTRG.14252.1	MSTRG.14252.1
scaffold_33	23846279	23914818	MSTRG.14255.1	MSTRG.14255.1
scaffold_33	23955938	23956138	MSTRG.14257.1	MSTRG.14257.1
scaffold_33	24016345	24016559	MSTRG.14258.1	MSTRG.14258.1
scaffold_33	24017330	24022601	MSTRG.14259.1	MSTRG.14259.1
scaffold_33	24017828	24032147	MSTRG.14260.1	MSTRG.14260.1
scaffold_33	24018440	24023876	MSTRG.14261.1	MSTRG.14261.1
scaffold_33	24019247	24019516	MSTRG.14262.1	MSTRG.14262.1
scaffold_33	24064957	24065188	MSTRG.14264.1	MSTRG.14264.1
scaffold_33	24065553	24066145	MSTRG.14266.1	MSTRG.14266.1
scaffold_33	24160982	24219089	MSTRG.14267.1	MSTRG.14267.1
scaffold_33	24160997	24179683	MSTRG.14267.2	MSTRG.14267.2
scaffold_33	24479197	24479421	MSTRG.14275.1	MSTRG.14275.1
scaffold_33	24736318	24736946	MSTRG.14283.1	MSTRG.14283.1
scaffold_33	24794870	24795247	MSTRG.14285.1	MSTRG.14285.1
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scaffold_33	24986116	24986470	MSTRG.14291.1	MSTRG.14291.1
scaffold_33	24953831	24985250	MSTRG.14293.1	MSTRG.14293.1
scaffold_33	25051509	25141727	MSTRG.14295.1	MSTRG.14295.1
scaffold_33	25057550	25077155	MSTRG.14295.2	MSTRG.14295.2
scaffold_33	25503128	25503355	MSTRG.14301.1	MSTRG.14301.1
scaffold_33	25582424	25582813	MSTRG.14305.1	MSTRG.14305.1
scaffold_33	25654517	25663979	MSTRG.14306.1	MSTRG.14306.1
scaffold_33	25654520	25663979	MSTRG.14306.2	MSTRG.14306.2
scaffold_33	25961039	25961254	MSTRG.14310.1	MSTRG.14310.1
scaffold_33	25958854	25959059	MSTRG.14311.1	MSTRG.14311.1
scaffold_33	26119618	26119842	MSTRG.14312.1	MSTRG.14312.1
scaffold_33	26395009	26400463	MSTRG.14318.1	MSTRG.14318.1
scaffold_33	26582465	26591579	MSTRG.14319.2	MSTRG.14319.2
scaffold_33	26582467	26593215	MSTRG.14319.3	MSTRG.14319.3
scaffold_33	26582545	26593215	MSTRG.14319.5	MSTRG.14319.5
scaffold_33	26645032	26645542	MSTRG.14326.1	MSTRG.14326.1
scaffold_33	26640098	26640299	MSTRG.14328.1	MSTRG.14328.1
scaffold_33	26947273	26948607	MSTRG.14337.1	MSTRG.14337.1
scaffold_33	27135834	27136407	MSTRG.14341.1	MSTRG.14341.1
scaffold_33	27150983	27161787	MSTRG.14345.1	MSTRG.14345.1
scaffold_33	27262756	27262985	MSTRG.14354.1	MSTRG.14354.1
scaffold_33	27316922	27334903	MSTRG.14357.2	MSTRG.14357.2
scaffold_33	27332999	27333201	MSTRG.14358.1	MSTRG.14358.1
scaffold_33	27443139	27443422	MSTRG.14360.1	MSTRG.14360.1
scaffold_33	27412811	27440572	MSTRG.14361.1	MSTRG.14361.1
scaffold_33	27435742	27435966	MSTRG.14362.1	MSTRG.14362.1
scaffold_33	27629275	27629479	MSTRG.14363.1	MSTRG.14363.1

scaffold_33	27579198	27609431	MSTRG.14365.1	MSTRG.14365.1
scaffold_33	27917623	27917842	MSTRG.14368.1	MSTRG.14368.1
scaffold_33	27956655	27977330	MSTRG.14369.3	MSTRG.14369.3
scaffold_33	27981955	27992579	MSTRG.14371.1	MSTRG.14371.1
scaffold_33	28134153	28134509	MSTRG.14373.1	MSTRG.14373.1
scaffold_33	28009855	28023871	MSTRG.14374.2	MSTRG.14374.2
scaffold_33	27681731	27708149	MSTRG.14376.1	MSTRG.14376.1
scaffold_33	27681746	27708149	MSTRG.14376.2	MSTRG.14376.2
scaffold_33	27695026	27747399	MSTRG.14377.1	MSTRG.14377.1
scaffold_33	27747560	27790348	MSTRG.14379.1	MSTRG.14379.1
scaffold_33	27747895	27782953	MSTRG.14379.2	MSTRG.14379.2
scaffold_33	27858120	27886129	MSTRG.14379.5	MSTRG.14379.5
scaffold_33	27809728	27809954	MSTRG.14380.1	MSTRG.14380.1
scaffold_33	29119862	29138401	MSTRG.14389.5	MSTRG.14389.5
scaffold_33	29342180	29342402	MSTRG.14390.1	MSTRG.14390.1
scaffold_33	29420297	29420550	MSTRG.14394.1	MSTRG.14394.1
scaffold_33	29348528	29398793	MSTRG.14396.1	MSTRG.14396.1
scaffold_33	29836188	29836404	MSTRG.14398.1	MSTRG.14398.1
scaffold_33	29495389	29579256	MSTRG.14401.1	MSTRG.14401.1
scaffold_33	29495389	29579256	MSTRG.14401.2	MSTRG.14401.2
scaffold_33	29581650	29581852	MSTRG.14402.1	MSTRG.14402.1
scaffold_33	29682013	29682224	MSTRG.14404.1	MSTRG.14404.1
scaffold_33	31572453	31572657	MSTRG.14405.1	MSTRG.14405.1
scaffold_33	31588326	31588550	MSTRG.14407.1	MSTRG.14407.1
scaffold_33	31907396	31916161	MSTRG.14410.1	MSTRG.14410.1
scaffold_33	31907396	31915832	MSTRG.14410.2	MSTRG.14410.2
scaffold_33	32253037	32253295	MSTRG.14411.1	MSTRG.14411.1
scaffold_33	32252241	32252591	MSTRG.14412.1	MSTRG.14412.1
scaffold_33	31829747	31848710	MSTRG.14413.1	MSTRG.14413.1
scaffold_33	31829747	31848710	MSTRG.14413.2	MSTRG.14413.2
scaffold_33	31829823	31848710	MSTRG.14413.3	MSTRG.14413.3
scaffold_33	31832418	31848710	MSTRG.14413.4	MSTRG.14413.4
scaffold_33	31048082	31048289	MSTRG.14417.1	MSTRG.14417.1
scaffold_33	33477036	33496487	MSTRG.14420.1	MSTRG.14420.1
scaffold_33	33477247	33496487	MSTRG.14420.2	MSTRG.14420.2
scaffold_33	33477247	33496487	MSTRG.14420.3	MSTRG.14420.3
scaffold_33	30902595	30903095	PDLI2_g15014.t1	PDLI2_g15014.t1
scaffold_33	57720	61567	SC5AC_g14259.t1	SC5AC_g14259.t1
scaffold_33	14245102	14276244	ST2A1_g14645.t1	ST2A1_g14645.t1
scaffold_33	14986702	14990383	NPAS1_g14664.t1	NPAS1
scaffold_33	11914230	11919273	NR1H2_g14538.t1	NR1H2
scaffold_33	13029794	13049239	MSTRG.13995.1	NUCB1
scaffold_33	13030642	13048614	NUCB1_g14604.t1	NUCB1
scaffold_33	29222935	29316181	MSTRG.14393.1	NUDT11
scaffold_33	29222970	29336153	MSTRG.14393.4	NUDT11

scaffold_33	29222967	29336153	MSTRG.14393.2	NUDT11
scaffold_33	29222967	29336153	MSTRG.14393.3	NUDT11
scaffold_33	29225095	29336568	TDR12_g15005.t1	NUDT19
scaffold_33	29336154	29337009	MSTRG.14393.7	NUDT19
scaffold_33	21754264	21778313	NUMBL_g14825.t1	NUMBL
scaffold_33	12239571	12241467	NUP62_g14550.t1	NUP62
scaffold_33	12238815	12241467	NUP62_g14550.t2	NUP62
scaffold_33	13486828	13510041	ODAD1_g14635.t1	ODAD1
scaffold_33	20580597	20597881	ODBA_g14802.t1	BCKDHA
scaffold_33	3453985	3454896	OLF5_g14336.t1	OLF5
scaffold_33	16707817	16756894	OPA3_g14704.t1	OPA3
scaffold_33	16788391	16788774	OPA3_g14705.t1	OPA3
scaffold_33	6534700	6536762	OSCAR_g14431.t1	OSCAR
scaffold_33	6534173	6536762	OSCAR_g14431.t2	OSCAR
scaffold_33	27224521	27226238	OVOL3_g14974.t1	OVOL3
scaffold_33	12249802	12255222	OXLA_g14551.t1	IL4I1
scaffold_33	27357273	27358394	OZF_g14981.t1	ZNF146
scaffold_33	22532995	22537981	MSTRG.14219.1	PAF1
scaffold_33	22533218	22537981	PAF1_g14854.t1	PAF1
scaffold_33	19369799	19372400	MSTRG.14161.1	PAFAH1B3
scaffold_33	22731661	22741953	PAK4_g14861.t1	PAK4
scaffold_33	17417777	17417993	MSTRG.14113.1	PALD1
scaffold_33	27310981	27311197	MSTRG.14356.1	PARP3
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scaffold_33	29399743	29405611	PDCD5_g15009.t1	PDCD5
scaffold_33	25400066	25424278	PDD2L_g14915.t1	PDD2L
scaffold_33	3307428	3322383	PEG3_g14331.t1	PEG3
scaffold_33	26939617	26940663	PEN2_g14956.t1	PSENEN
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scaffold_33	28706734	28751950	PEPD_g14994.t1	PEPD
scaffold_33	22352952	22358086	MSTRG.14211.4	PHF7
scaffold_33	10577598	10577898	MSTRG.13946.1	PHKB
scaffold_33	18411452	18432637	PHLB3_g14767.t1	PHLDB3
scaffold_33	18432649	18432852	MSTRG.14145.1	PHLDB3
scaffold_33	12615808	12616848	PIHD1_g14576.t1	PIH1D1
scaffold_33	18345024	18347685	PINLY_g14763.t1	PINLY
scaffold_33	13064189	13087445	PKHA4_g14607.t1	PKHA4
scaffold_33	31866834	31867688	PKHF1_g15022.t1	PLEKHF1
scaffold_33	22507797	22516129	PKHG2_g14851.t1	PLEKHG2
scaffold_33	18280472	18293123	MSTRG.14135.1	PLAUR
scaffold_33	18280479	18293123	MSTRG.14135.2	PLAUR
scaffold_33	21972250	21980125	PLD3_g14833.t1	PLD3
scaffold_33	21971763	21990491	MSTRG.14196.1	PLD3
scaffold_33	21971763	21990491	MSTRG.14196.2	PLD3

scaffold_33	21971763	21990491	MSTRG.14196.3	PLD3
scaffold_33	22507015	22517730	MSTRG.14216.1	PLEKGH2
scaffold_33	13063535	13067496	MSTRG.13997.1	PLEKHA4
scaffold_33	31865983	31873014	MSTRG.14415.1	PLEKHF1
scaffold_33	12277258	12283112	MSTRG.13965.1	PNKP
scaffold_33	15454317	15455768	PNM8A_g14679.t1	PNMA8A
scaffold_33	15453702	15454316	ANX11_g14678.t1	PNMA1
scaffold_33	15427745	15429634	PNM8B_g14677.t1	PNMA8A
scaffold_33	9035062	9035406	POL_g14463.t1	POL
scaffold_33	27226288	27227855	MSTRG.14349.1	POLR2I
scaffold_33	5097836	5120804	PP12C_g14403.t1	PPP1R12C
scaffold_33	23455693	23460314	PP14A_g14888.t1	PPP1R14A
scaffold_33	12909411	12910503	ADA_g14592.t1	PPFIA3
scaffold_33	17086406	17126344	MSTRG.14101.2	PPP1R37
scaffold_33	17086406	17126344	MSTRG.14101.1	PPP1R37
scaffold_33	15530575	15552886	PPP5_g14680.t1	PPP5
scaffold_33	5005414	5024098	MSTRG.13875.2	PPP6R1
scaffold_33	4995808	5024098	MSTRG.13875.1	PPP6R1
scaffold_33	13058423	13060916	PR15A_g14606.t1	PPP1R15A
scaffold_33	21941193	21942237	PRAX_g14831.t1	PRX
scaffold_33	15247690	15280812	MSTRG.14052.1	PRKD2
scaffold_33	12422723	12435314	MSTRG.13970.1	PRMT1
scaffold_33	12422723	12435314	MSTRG.13970.2	PRMT1
scaffold_33	6501705	6515616	PRP31_g14428.t1	PRP31
scaffold_33	6500448	6518147	MSTRG.13895.1	PRPF31
scaffold_33	12478566	12502947	PRR12_g14567.t1	PRR12
scaffold_33	19375477	19376653	PRR19_g14789.t1	PRR19
scaffold_33	26936814	26939353	MSTRG.14335.1	PSENEN
scaffold_33	26939323	26940663	MSTRG.14336.1	PSENEN
scaffold_33	22240182	22248835	MSTRG.14205.1	PSMC4
scaffold_33	5037657	5056467	PTPRH_g14399.t1	PTPRH
scaffold_33	17488610	17499129	PVR_g14741.t1	PVR
scaffold_33	16631099	16637231	QPCTL_g14700.t1	QPCTL
scaffold_33	29346734	29347441	R9BP_g15006.t1	RGS9BP
scaffold_33	21682352	21691929	MSTRG.14182.1	RAB4B
scaffold_33	21686731	21691929	RAB4B_g14819.t1	RAB4B
scaffold_33	33542380	33542754	MSTRG.14421.1	RABL6
scaffold_33	22730726	22775886	MSTRG.14224.1	RAC1
scaffold_33	22730726	22775886	MSTRG.14224.2	RAC1
scaffold_33	13167778	13171267	RAIN_g14612.t1	RASIP1
scaffold_33	13171826	13185034	RAIN_g14612.t2	RASIP1
scaffold_33	26840532	26849107	MSTRG.14330.1	RBM42
scaffold_33	26840645	26849107	RBM42_g14948.t1	RBM42
scaffold_33	12531677	12543972	MSTRG.13977.1	RCN3
scaffold_33	12533630	12543479	RCN3_g14570.t1	RCN3

scaffold_33	5149897	5163739	RDH13_g14405.t1	RDH13
scaffold_33	17166281	17191558	MSTRG.14106.1	RELB
scaffold_33	17166281	17191558	MSTRG.14106.2	RELB
scaffold_33	17166402	17223983	MSTRG.14106.3	RELB
scaffold_33	17166819	17191558	RELB_g14726.t1	RELB
scaffold_33	29346082	29346284	MSTRG.14392.1	RGS9BP
scaffold_33	24064460	24064897	RHDF2_g14895.t1	RHBDF2
scaffold_33	26966232	26978984	RHG33_g14960.t1	ARHGAP33
scaffold_33	15017919	15088295	RHG35_g14665.t1	ARHGAP35
scaffold_33	29054696	29106648	RHPN2_g15001.t1	RHPN2
scaffold_33	12578779	12583077	RL13A_g14573.t1	RL13A
scaffold_33	13269464	13273301	RL18_g14620.t1	RPL18
scaffold_33	4890812	4893584	RL28_g14389.t1	RPL28
scaffold_33	31595001	31665256	RMP_g15019.t1	URI1
scaffold_33	3988264	3988614	TRPV4_g14356.t1	RP2
scaffold_33	16872614	16874728	RPA34_g14711.t1	POLR1G
scaffold_33	27226333	27227855	RPB9_g14975.t1	POLR2I
scaffold_33	4890697	4893584	MSTRG.13872.1	RPL28
scaffold_33	19013823	19022799	MSTRG.14148.1	RPS19
scaffold_33	211247	211588	MFS12_g14269.t1	RPS5
scaffold_33	203929	211588	MSTRG.13753.2	RPS5
scaffold_33	206413	211588	MSTRG.13753.4	RPS5
scaffold_33	6428560	6436094	MSTRG.13887.1	RPS9
scaffold_33	12469541	12473433	RRAS_g14566.t1	RRAS
scaffold_33	12567432	12569786	RS11_g14572.t1	RS11
scaffold_33	22500262	22502940	RS16_g14850.t1	RS16
scaffold_33	206413	210651	RS5_g14268.t1	RPS5
scaffold_33	6429274	6435772	RS9_g14424.t1	RS9
scaffold_33	16545177	16564831	RSH6A_g14694.t1	RSPH6A
scaffold_33	9544003	9544725	RSMB_g14480.t1	RSMB
scaffold_33	16810703	16818183	RTN2_g14708.t1	RTN2
scaffold_33	12920294	12935549	RU17_g14594.t1	SNRNP70
scaffold_33	12961573	12981084	RUVB2_g14599.t1	RUVB2
scaffold_33	23231182	23233622	MSTRG.14240.2	RYR1
scaffold_33	23236572	23253632	MSTRG.14240.3	RYR1
scaffold_33	23239007	23251383	MSTRG.14240.4	RYR1
scaffold_33	23186130	23296673	RYR1_g14876.t1	RYR1
scaffold_33	70134	79742	S27A5_g14261.t1	SLC27A5
scaffold_33	9642820	9653099	SACA6_g14486.t1	SACA6
scaffold_33	14832085	14898647	SAE1_g14660.t1	SAE1
scaffold_33	25428531	25466162	SAE2_g14916.t1	UBA2
scaffold_33	22538161	22575893	MSTRG.14220.1	SAMD4B
scaffold_33	22539972	22574130	MSTRG.14220.2	SAMD4B
scaffold_33	1049402	1049606	MSTRG.13777.1	SAPCD1
scaffold_33	22905003	22907580	MSTRG.14225.1	SARS2

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scaffold_33	12454538	12468074	MSTRG.13973.1	SCAF1
scaffold_33	12460246	12468074	MSTRG.13973.3	SCAF1
scaffold_33	3610407	3610621	MSTRG.13839.1	SCGB1C1
scaffold_33	27135423	27135779	SDHF1_g14969.t1	SDHF1
scaffold_33	14372172	14376600	MSTRG.14021.1	SELENOW
scaffold_33	22436135	22438855	SELV_g14845.t1	SELV
scaffold_33	12454816	12465158	SFR19_g14565.t1	SFR19
scaffold_33	11672366	11714018	SHAN1_g14525.t2	SHANK1
scaffold_33	33478156	33496487	SHCBP_g15029.t1	SHCBP1
scaffold_33	21829689	21841143	SHKB1_g14827.t1	SHKBP1
scaffold_33	4855175	4861752	SHSA7_g14387.t2	SHISA7
scaffold_33	23505921	23515519	SI1L3_g14890.t1	SIPA1L3
scaffold_33	10382080	10388303	SIG10_g14504.t1	SIGLEC10
scaffold_33	10219622	10224891	SIGL5_g14495.t1	SIGLEC5
scaffold_33	23519288	23727799	MSTRG.14254.3	SIPA1L3
scaffold_33	23519288	23740954	MSTRG.14254.4	SIPA1L3
scaffold_33	22930843	22946842	SIR2_g14868.t1	SIR2
scaffold_33	22930917	22947368	MSTRG.14228.2	SIRT2
scaffold_33	22944849	22946567	MSTRG.14228.3	SIRT2
scaffold_33	16586193	16590295	SIX5_g14697.t1	SIX5
scaffold_33	17273805	17276502	MSTRG.14103.1	SLC22A12
scaffold_33	13724245	13724512	MSTRG.14018.1	SLC34A1
scaffold_33	22540289	22562302	SMAG2_g14855.t1	SMAG2
scaffold_33	18213019	18233954	MSTRG.14134.1	SMG9
scaffold_33	18213019	18233954	MSTRG.14134.2	SMG9
scaffold_33	18216312	18233954	SMG9_g14755.t1	SMG9
scaffold_33	14595151	14620266	SNAA_g14652.t1	SNAA
scaffold_33	13087894	13129816	MSTRG.13999.1	SNAPIN
scaffold_33	13087894	13115574	MSTRG.13999.2	SNAPIN
scaffold_33	12920049	12936495	MSTRG.13988.1	SNRNP70
scaffold_33	12920049	12936495	MSTRG.13988.2	SNRNP70
scaffold_33	12920089	12936495	MSTRG.13988.3	SNRNP70
scaffold_33	12920153	12936495	MSTRG.13988.4	SNRNP70
scaffold_33	21695202	21709088	MSTRG.14183.1	SNRPA
scaffold_33	21696972	21708413	SNRPA_g14821.t1	SNRPA
scaffold_33	16637887	16643279	MSTRG.14082.1	SNRPD2
scaffold_33	9598820	9600525	ABCA5_g14483.t1	MTCL2
scaffold_33	13260928	13269397	MSTRG.14007.1	SPHK2
scaffold_33	13260939	13269397	MSTRG.14007.2	SPHK2
scaffold_33	13261588	13268050	SPHK2_g14619.t1	SPHK2
scaffold_33	11887791	11912476	MSTRG.13953.1	SPIB
scaffold_33	11881627	11886890	SPIB_g14536.t1	SPIB
scaffold_33	23421893	23448727	SPIT2_g14887.t1	SPINT2
scaffold_33	23322564	23330257	SPRE3_g14879.t1	SPRE3

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scaffold_33	21929752	21932336	SRTD3_g14830.t1	SERTAD3
scaffold_33	14294281	14314869	ST2A1_g14646.t1	SULT2A1
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scaffold_33	15220052	15245120	MSTRG.14050.3	STRN4
scaffold_33	15220052	15245120	MSTRG.14050.4	STRN4
scaffold_33	15220076	15245120	MSTRG.14050.5	STRN4
scaffold_33	15219971	15243923	STRN4_g14669.t1	STRN4
scaffold_33	14313091	14315303	MSTRG.14019.3	SULT2A1
scaffold_33	16508718	16544768	MSTRG.14078.2	SYMPK
scaffold_33	16508712	16544768	MSTRG.14078.1	SYMPK
scaffold_33	16509309	16542078	MSTRG.14078.3	SYMPK
scaffold_33	27140387	27144095	SYNE4_g14970.t1	SYNE4
scaffold_33	22907986	22918065	SYSM_g14865.t1	SARS2
scaffold_33	22907809	22918065	SYSM_g14865.t2	SARS2
scaffold_33	5058895	5064268	SYT5_g14400.t1	SYT5
scaffold_33	6550857	6578172	TARM1_g14432.t1	TARM1
scaffold_33	6564997	6565203	MSTRG.13898.1	TARM1
scaffold_33	12256011	12267809	TBC17_g14552.t1	TBC17
scaffold_33	27228184	27236262	TBCB_g14976.t1	TBCB
scaffold_33	29224887	29337009	MSTRG.14393.5	TDRD12
scaffold_33	12708732	12723890	MSTRG.13985.2	TEAD2
scaffold_33	12708732	12723890	MSTRG.13985.1	TEAD2
scaffold_33	12710377	12723405	TEAD2_g14584.t1	TEAD2
scaffold_33	13522811	13535921	TEX45_g14636.t1	TEX45
scaffold_33	20629079	20644006	TGFB1_g14806.t1	TGFB1
scaffold_33	27163473	27163682	MSTRG.14346.1	THAP8
scaffold_33	27163847	27174828	THAP8_g14972.t1	THAP8
scaffold_33	40448	46329	TIF1B_g14258.t1	TIF1B
scaffold_33	11672	16640	MSTRG.13741.1	TIGD1
scaffold_33	12621	14561	TIGD1_g14253.t1	TIGD1
scaffold_33	22458859	22465865	TIM50_g14847.t1	TIMM50
scaffold_33	12659955	12660593	TIP39_g14581.t1	TIP39
scaffold_33	13459040	13477320	TM143_g14633.t1	TMEM143
scaffold_33	26618976	26620598	TM147_g14945.t1	TMEM147
scaffold_33	14983956	14986400	TM160_g14663.t1	TMEM160
scaffold_33	14984046	14986400	TM160_g14663.t2	TMEM160
scaffold_33	4895040	4895579	TM238_g14390.t1	TMEM238
scaffold_33	6452574	6463976	TMC4_g14425.t1	TMC4
scaffold_33	6464248	6477469	TMC4_g14425.t2	TMC4
scaffold_33	13477767	13477973	MSTRG.14012.1	TMEM143
scaffold_33	1626012	1626230	MSTRG.13795.1	TMEM207
scaffold_33	4883403	4883836	MSTRG.13869.1	TMEM217
scaffold_33	12503777	12508185	TMG2_g14568.t1	TMG2
scaffold_33	20608773	20612726	TMM91_g14804.t1	TMM91

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scaffold_33	17329690	17336659	MSTRG.14108.2	TOM40
scaffold_33	17330985	17336494	TOM40_g14734.t1	TOM40
scaffold_33	17290036	17336659	MSTRG.14108.1	TOMM40
scaffold_33	17061908	17083293	MSTRG.14099.2	TRAPPC6A
scaffold_33	12843253	12882874	TRPM4_g14588.t1	TRPM4
scaffold_33	6443925	6451001	MSTRG.13886.1	TSEN34
scaffold_33	6443959	6449888	MSTRG.13886.2	TSEN34
scaffold_33	30428853	30496517	TSH3_g15013.t1	TSHZ3
scaffold_33	12375477	12389672	TSKS_g14560.t1	TSKS
scaffold_33	22521471	22523269	TTP_g14852.t1	ADAMTS13
scaffold_33	5897010	5914847	MSTRG.13883.3	TTYH1
scaffold_33	5907963	5917591	MSTRG.13884.1	TTYH1
scaffold_33	5896910	5915741	MSTRG.13883.1	TTYH1
scaffold_33	5896919	5914847	MSTRG.13883.2	TTYH1
scaffold_33	27063861	27066930	IKBD_g14965.t2	TYROBP
scaffold_33	27063717	27066930	MSTRG.14342.1	TYROBP
scaffold_33	26936931	26939353	MSTRG.14335.2	U2AF1L4
scaffold_33	26936931	26939353	MSTRG.14335.3	U2AF1L4
scaffold_33	4669491	4669806	MSTRG.13857.1	U2AF2
scaffold_33	4669918	4685958	MSTRG.13858.1	U2AF2
scaffold_33	4670057	4678819	U2AF2_g14374.t1	U2AF2
scaffold_33	4679419	4685958	U2AF2_g14374.t2	U2AF2
scaffold_33	26937073	26939353	U2AF4_g14955.t1	U2AF4
scaffold_33	25428476	25468180	MSTRG.14300.1	UBA2
scaffold_33	33271	35663	UBC12_g14255.t1	UBC12
scaffold_33	4877240	4882127	UBE2S_g14388.t1	UBE2S
scaffold_33	3034784	3037573	UBP29_g14328.t1	UBP29
scaffold_33	32246099	32250701	UCRI_g15026.t1	UQCRFS1
scaffold_33	20699179	20725438	UFO_g14809.t1	AXL
scaffold_33	18280494	18293123	UPAR_g14757.t1	PLAUR
scaffold_33	26882337	26888980	UPK1A_g14951.t1	UPK1A
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scaffold_33	26395533	26404445	USF2_g14934.t1	USF2
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scaffold_33	16790538	16802890	MSTRG.14089.2	VASP
scaffold_33	16790540	16802890	MSTRG.14089.3	VASP
scaffold_33	16791329	16802890	VASP_g14706.t1	VASP
scaffold_33	8826433	8826699	MSTRG.13921.1	VN1R4
scaffold_33	10311087	10339152	MSTRG.13935.1	VSIG10L
scaffold_33	10311087	10339152	MSTRG.13935.2	VSIG10L
scaffold_33	10311087	10339152	MSTRG.13935.3	VSIG10L
scaffold_33	10311087	10316614	MSTRG.13935.4	VSIG10L
scaffold_33	10312377	10315268	MSTRG.13935.6	VSIG10L

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scaffold_33	23795847	23808852	WDR87_g14893.t1	WDR87
scaffold_33	25474239	25499676	MSTRG.14302.2	WTIP
scaffold_33	25473475	25499676	WTIP_g14917.t1	WTIP
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scaffold_33	18348838	18374082	MSTRG.14142.1	XRCC1
scaffold_33	18370639	18372366	MSTRG.14142.3	XRCC1
scaffold_33	23404123	23412330	YIF1B_g14885.t1	YIF1B
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scaffold_33	12238715	12240359	ZAN_g14549.t1	ZAN
scaffold_33	26910905	26913065	ZBT32_g14952.t1	ZBTB32
scaffold_33	65292	69330	ZBT45_g14260.t1	ZBTB45
scaffold_33	62454	79742	MSTRG.13747.1	ZBTB45
scaffold_33	14919304	14962788	MSTRG.14044.1	ZC3H4
scaffold_33	14919304	14962788	MSTRG.14044.2	ZC3H4
scaffold_33	14920183	14962788	MSTRG.14044.3	ZC3H4
scaffold_33	14920251	14962788	ZC3H4_g14661.t1	ZC3H4
scaffold_33	22521471	22525534	MSTRG.14217.1	ZFP36
scaffold_33	24924203	24924420	MSTRG.14290.1	ZFP62
scaffold_33	27925601	27975470	ZFP82_g14990.t1	ZFP82
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scaffold_33	153475	160301	ZN132_g14264.t1	ZNF132
scaffold_33	2099109	2101105	ZN134_g14306.t1	ZNF134
scaffold_33	576503	586117	ZN135_g14286.t2	ZNF135
scaffold_33	9781932	9795295	ZN175_g14491.t1	ZNF175
scaffold_33	17596090	17613979	ZN180_g14742.t1	ZNF180
scaffold_33	17912393	17948330	ZN208_g14750.t1	ZNF208
scaffold_33	1768049	1774500	ZN211_g14303.t1	ZNF211
scaffold_33	2133229	2134482	ZN211_g14307.t1	ZNF211
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scaffold_33	17657068	17658995	ZN229_g14745.t1	ZNF229
scaffold_33	1748638	1751037	ZN256_g14302.t1	ZNF256
scaffold_33	27823611	27825988	ZN260_g14989.t1	ZNF260
scaffold_33	18090689	18112595	ZN283_g14752.t1	ZNF283
scaffold_33	17138462	17142035	ZN296_g14724.t1	ZNF296
scaffold_33	2163450	2170149	ZN304_g14308.t1	ZNF304
scaffold_33	444856	446502	ZN329_g14281.t1	ZNF329
scaffold_33	6967792	6992469	ZN331_g14440.t1	ZNF331
scaffold_33	8505611	8514589	ZN347_g14452.t1	ZNF347
scaffold_33	9123824	9128094	ZN350_g14466.t1	ZNF350
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scaffold_33	24844344	24850115	ZN383_g14904.t1	ZNF383
scaffold_33	3867034	3868158	ZN397_g14353.t1	ZNF397

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scaffold_33	3807722	3832287	ZN415_g14352.t1	ZNF415
scaffold_33	2324242	2334051	ZN416_g14312.t1	ZNF416
scaffold_33	763479	770476	ZN418_g14292.t1	ZNF418
scaffold_33	2622442	2634777	ZN419_g14319.t1	ZNF419
scaffold_33	12116611	12118386	ZN420_g14544.t1	ZNF420
scaffold_33	18319465	18325412	ZN428_g14759.t1	ZNF428
scaffold_33	87309	90974	ZN446_g14262.t1	ZNF446
scaffold_33	3673238	3692048	ZN470_g14347.t1	ZNF470
scaffold_33	3629414	3639364	ZN470_g14347.t2	ZNF470
scaffold_33	12134591	12144447	ZN473_g14545.t1	ZNF473
scaffold_33	29594385	29622895	ZN507_g15011.t1	ZNF507
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scaffold_33	2705625	2713791	ZN548_g14321.t1	ZNF548
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scaffold_33	1604542	1608276	ZN551_g14300.t1	ZNF551
scaffold_33	1658827	1662405	ZN551_g14301.t1	ZNF551
scaffold_33	27313456	27320713	ZN565_g14980.t1	ZNF565
scaffold_33	24425662	24445895	ZN566_g14900.t1	ZNF566
scaffold_33	24537316	24553527	ZN570_g14901.t1	ZNF570
scaffold_33	19187773	19190780	ZN574_g14781.t1	ZNF574
scaffold_33	18378815	18380061	ZN575_g14765.t1	ZNF575
scaffold_33	18331776	18332291	ZN576_g14760.t1	ZNF576
scaffold_33	18331776	18334347	ZN576_g14761.t1	ZNF576
scaffold_33	4751156	4753362	ZN579_g14381.t1	ZNF579
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scaffold_34	24221703	24315226	MSTRG.14555.3	ANKRD26
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scaffold_34	13655964	13938468	MSTRG.14505.2	FRMD4A
scaffold_34	22388788	23111299	MSTRG.14543.1	FUK
scaffold_34	22389228	23111299	MSTRG.14543.2	FUK
scaffold_34	22389374	22396201	MSTRG.14543.3	FUK

scaffold_34	32817115	32818847	FZD8_g15225.t1	FZD8
scaffold_34	21874657	21896461	MSTRG.14537.2	GALNT7
scaffold_34	4150865	4152044	GANP_g15052.t2	MCM3AP
scaffold_34	6448362	6484221	GDIB_g15074.t1	GDI2
scaffold_34	23846236	24027852	GP158_g15171.t1	GP158
scaffold_34	23651458	24029477	MSTRG.14551.1	GPR158
scaffold_34	960736	985403	GTPB4_g15039.t1	GTPBP4
scaffold_34	960623	991877	MSTRG.14430.1	GTPBP4
scaffold_34	960710	969970	MSTRG.14430.2	GTPBP4
scaffold_34	960736	991877	MSTRG.14430.3	GTPBP4
scaffold_34	25269885	25303342	GWL_g15182.t1	GWL
scaffold_34	17011614	17032547	HACD1_g15137.t1	HACD1
scaffold_34	17007766	17031199	MSTRG.14522.1	HACD1
scaffold_34	17007766	17031199	MSTRG.14522.2	HACD1
scaffold_34	31270461	31326837	HHATL_g15215.t1	HHATL
scaffold_34	14670602	14707204	HSP7E_g15117.t1	HSPA14
scaffold_34	14674543	14678996	HSP7E_g15117.t2	HSPA14
scaffold_34	14670508	14678996	MSTRG.14506.1	HSPA14
scaffold_34	1031822	1035068	IDI1_g15041.t1	IDI1
scaffold_34	12439414	12461579	IKZF3_g15105.t1	IKZF3
scaffold_34	30455082	30471068	ITB1_g15211.t1	ITGB1
scaffold_34	30473571	30533817	ITB1_g15212.t1	ITGB1
scaffold_34	11615544	11625343	KANL3_g15095.t1	KANSL3
scaffold_34	12509191	12865381	KCC1D_g15106.t1	KCC1D
scaffold_34	23024302	23111299	MSTRG.14543.10	KIAA1217
scaffold_34	23044797	23111299	MSTRG.14543.11	KIAA1217
scaffold_34	22818028	23111299	MSTRG.14543.5	KIAA1217
scaffold_34	22818028	23111299	MSTRG.14543.6	KIAA1217
scaffold_34	22818291	23111299	MSTRG.14543.7	KIAA1217
scaffold_34	23024302	23111299	MSTRG.14543.9	KIAA1217
scaffold_34	27997598	28041783	MSTRG.14593.1	KIAA1462
scaffold_34	27997631	28038556	MSTRG.14593.2	KIAA1462
scaffold_34	29643078	29690370	MSTRG.14605.1	KIF5B
scaffold_34	29644149	29690370	MSTRG.14605.2	KIF5B
scaffold_34	8295908	8327783	KIN17_g15087.t1	KIN
scaffold_34	29649769	29690370	KINH_g15208.t1	KINH
scaffold_34	3554097	3559882	KLF6_g15048.t1	KLF6
scaffold_34	3550132	3559882	MSTRG.14439.1	KLF6
scaffold_34	3550864	3559882	MSTRG.14439.2	KLF6
scaffold_34	761925	818111	LAR4B_g15037.t1	LAR4B
scaffold_34	757439	837443	MSTRG.14427.1	LARP4B
scaffold_34	757853	827733	MSTRG.14427.2	LARP4B
scaffold_34	27924066	27949329	LMBL3_g15199.t1	L3MBTL3
scaffold_34	24984541	25023963	MSTRG.14556.1	LOC101395405
scaffold_34	32053089	32096932	MSTRG.14618.1	LOC111768565

scaffold_34	18724898	18916099	LRC4C_g15146.t1	LRC4C
scaffold_34	26484951	26485175	MSTRG.14581.1	LY75
scaffold_34	27752226	27769594	M3K8_g15197.t1	M3K8
scaffold_34	13130151	13166104	MCM10_g15109.t1	MCM10
scaffold_34	13127927	13169998	MSTRG.14490.1	MCM10
scaffold_34	4517110	4517655	MCTS1_g15053.t1	MCTS1
scaffold_34	23547543	23551127	MET_g15169.t1	MET
scaffold_34	15442658	15526252	MINY3_g15128.t1	MINDY3
scaffold_34	25916445	25999640	MSTRG.14576.2	MKX
scaffold_34	25923311	25981581	MKX_g15189.t1	MKX
scaffold_34	25916445	25982717	MSTRG.14576.1	MKX
scaffold_34	25916445	25982717	MSTRG.14576.3	MKX
scaffold_34	25916461	25999640	MSTRG.14576.4	MKX
scaffold_34	25982759	26022338	MSTRG.14577.1	MKX
scaffold_34	25982955	25999582	MSTRG.14577.2	MKX
scaffold_34	20479036	20658170	MSTRG.14532.2	MLLT10
scaffold_34	20479036	20739982	MSTRG.14532.3	MLLT10
scaffold_34	20479038	20739982	MSTRG.14532.4	MLLT10
scaffold_34	20726323	20731565	MSTRG.14532.6	MLLT10
scaffold_34	14964000	14969974	MMEL1_g15125.t1	MMEL1
scaffold_34	26304359	26558445	MSTRG.14580.1	MPP7
scaffold_34	17204738	17293011	MRC1_g15140.t1	MRC1
scaffold_34	21874405	21896461	MSRB2_g15159.t1	MSRB2
scaffold_34	27790065	27823345	MSTRG.14592.1	MTPAP
scaffold_34	27790076	27823345	MSTRG.14592.2	MTPAP
scaffold_34	19860831	20200952	MSTRG.14529.1	NEBL
scaffold_34	19866505	19973578	MSTRG.14529.2	NEBL
scaffold_34	6044314	6119197	MSTRG.14448.1	NET1
scaffold_34	6106189	6119197	MSTRG.14448.3	NET1
scaffold_34	17130547	17130748	MSTRG.14523.1	NLRP14
scaffold_34	14862337	14923948	NMT2_g15124.t1	NMT2
scaffold_34	5384252	5398723	AK1CN_g15061.t1	AK1CN_g15061.t1
scaffold_34	20014823	20022112	ASAH1_g15150.t1	ASAH1_g15150.t1
scaffold_34	8328058	8345367	ATPG_g15088.t1	ATPG_g15088.t1
scaffold_34	12338239	12391097	CD123_g15104.t1	CD123_g15104.t1
scaffold_34	992766	1002994	IDI2_g15040.t1	IDI2_g15040.t1
scaffold_34	194751	194951	MSTRG.14422.1	MSTRG.14422.1
scaffold_34	44774	167716	MSTRG.14423.3	MSTRG.14423.3
scaffold_34	203212	203442	MSTRG.14425.1	MSTRG.14425.1
scaffold_34	251431	251642	MSTRG.14426.1	MSTRG.14426.1
scaffold_34	841136	841506	MSTRG.14428.1	MSTRG.14428.1
scaffold_34	1114116	1114467	MSTRG.14433.1	MSTRG.14433.1
scaffold_34	1112941	1113151	MSTRG.14434.1	MSTRG.14434.1
scaffold_34	3259613	3259843	MSTRG.14436.1	MSTRG.14436.1
scaffold_34	2979023	3009808	MSTRG.14437.1	MSTRG.14437.1

scaffold_34	3561892	3562103	MSTRG.14438.1	MSTRG.14438.1
scaffold_34	5050229	5050451	MSTRG.14441.1	MSTRG.14441.1
scaffold_34	5360998	5361212	MSTRG.14442.1	MSTRG.14442.1
scaffold_34	5478960	5479162	MSTRG.14443.1	MSTRG.14443.1
scaffold_34	5481322	5481540	MSTRG.14444.1	MSTRG.14444.1
scaffold_34	5482619	5482885	MSTRG.14445.1	MSTRG.14445.1
scaffold_34	5485063	5485667	MSTRG.14446.1	MSTRG.14446.1
scaffold_34	6120128	6120551	MSTRG.14447.1	MSTRG.14447.1
scaffold_34	6082131	6082335	MSTRG.14449.1	MSTRG.14449.1
scaffold_34	6083899	6084104	MSTRG.14450.1	MSTRG.14450.1
scaffold_34	6514388	6515246	MSTRG.14452.1	MSTRG.14452.1
scaffold_34	6517251	6517566	MSTRG.14453.1	MSTRG.14453.1
scaffold_34	6447582	6484221	MSTRG.14454.1	MSTRG.14454.1
scaffold_34	6353974	6403123	MSTRG.14455.1	MSTRG.14455.1
scaffold_34	6367270	6444729	MSTRG.14456.4	MSTRG.14456.4
scaffold_34	6518790	6535827	MSTRG.14457.1	MSTRG.14457.1
scaffold_34	6518973	6535827	MSTRG.14457.2	MSTRG.14457.2
scaffold_34	6518973	6535827	MSTRG.14457.3	MSTRG.14457.3
scaffold_34	6536589	6585168	MSTRG.14458.2	MSTRG.14458.2
scaffold_34	6536607	6584801	MSTRG.14458.3	MSTRG.14458.3
scaffold_34	6536616	6584801	MSTRG.14458.4	MSTRG.14458.4
scaffold_34	6764539	6791564	MSTRG.14459.2	MSTRG.14459.2
scaffold_34	8312556	8325414	MSTRG.14461.2	MSTRG.14461.2
scaffold_34	8328034	8346135	MSTRG.14462.1	MSTRG.14462.1
scaffold_34	8452429	8452653	MSTRG.14465.1	MSTRG.14465.1
scaffold_34	8534009	8534239	MSTRG.14466.1	MSTRG.14466.1
scaffold_34	11670480	11683971	MSTRG.14467.1	MSTRG.14467.1
scaffold_34	11671783	11683971	MSTRG.14467.2	MSTRG.14467.2
scaffold_34	11971490	11971952	MSTRG.14468.1	MSTRG.14468.1
scaffold_34	11957967	11958185	MSTRG.14472.1	MSTRG.14472.1
scaffold_34	12282289	12310893	MSTRG.14475.1	MSTRG.14475.1
scaffold_34	12282289	12310893	MSTRG.14475.2	MSTRG.14475.2
scaffold_34	12282289	12310893	MSTRG.14475.3	MSTRG.14475.3
scaffold_34	12324975	12338221	MSTRG.14476.4	MSTRG.14476.4
scaffold_34	12921597	13015661	MSTRG.14478.1	MSTRG.14478.1
scaffold_34	12400610	12491026	MSTRG.14479.1	MSTRG.14479.1
scaffold_34	12439115	12461579	MSTRG.14480.1	MSTRG.14480.1
scaffold_34	12676247	12694500	MSTRG.14482.1	MSTRG.14482.1
scaffold_34	12712557	12717321	MSTRG.14483.1	MSTRG.14483.1
scaffold_34	12716560	12757326	MSTRG.14484.1	MSTRG.14484.1
scaffold_34	13077592	13119191	MSTRG.14485.1	MSTRG.14485.1
scaffold_34	13098144	13098785	MSTRG.14486.1	MSTRG.14486.1
scaffold_34	13171370	13171598	MSTRG.14488.1	MSTRG.14488.1
scaffold_34	13183513	13183714	MSTRG.14489.1	MSTRG.14489.1
scaffold_34	13342042	13342886	MSTRG.14493.1	MSTRG.14493.1

scaffold_34	13120476	13120743	MSTRG.14495.1	MSTRG.14495.1
scaffold_34	13375347	13399379	MSTRG.14496.5	MSTRG.14496.5
scaffold_34	13959924	13960142	MSTRG.14498.1	MSTRG.14498.1
scaffold_34	14032334	14032557	MSTRG.14499.1	MSTRG.14499.1
scaffold_34	14062013	14062220	MSTRG.14500.1	MSTRG.14500.1
scaffold_34	14067993	14068197	MSTRG.14501.1	MSTRG.14501.1
scaffold_34	14248476	14248687	MSTRG.14502.1	MSTRG.14502.1
scaffold_34	13722970	13768162	MSTRG.14505.3	MSTRG.14505.3
scaffold_34	14674986	14678996	MSTRG.14506.4	MSTRG.14506.4
scaffold_34	14705038	14705258	MSTRG.14507.1	MSTRG.14507.1
scaffold_34	15469080	15469294	MSTRG.14511.1	MSTRG.14511.1
scaffold_34	15508704	15509123	MSTRG.14512.1	MSTRG.14512.1
scaffold_34	16632739	16688555	MSTRG.14519.1	MSTRG.14519.1
scaffold_34	16722705	16723352	MSTRG.14520.1	MSTRG.14520.1
scaffold_34	17744229	17832163	MSTRG.14526.5	MSTRG.14526.5
scaffold_34	20014823	20022112	MSTRG.14531.1	MSTRG.14531.1
scaffold_34	20535972	20722289	MSTRG.14532.5	MSTRG.14532.5
scaffold_34	21398568	21446679	MSTRG.14535.1	MSTRG.14535.1
scaffold_34	21534687	21541814	MSTRG.14536.1	MSTRG.14536.1
scaffold_34	21728970	21833157	MSTRG.14538.3	MSTRG.14538.3
scaffold_34	21728970	21827783	MSTRG.14538.4	MSTRG.14538.4
scaffold_34	21729012	21833157	MSTRG.14538.5	MSTRG.14538.5
scaffold_34	21775764	21777732	MSTRG.14539.1	MSTRG.14539.1
scaffold_34	23125088	23125399	MSTRG.14542.1	MSTRG.14542.1
scaffold_34	22440908	22473659	MSTRG.14544.1	MSTRG.14544.1
scaffold_34	22457583	22457876	MSTRG.14545.1	MSTRG.14545.1
scaffold_34	23527226	23527442	MSTRG.14547.1	MSTRG.14547.1
scaffold_34	24197481	24197684	MSTRG.14552.1	MSTRG.14552.1
scaffold_34	23308623	23316213	MSTRG.14553.3	MSTRG.14553.3
scaffold_34	24293894	24304339	MSTRG.14555.7	MSTRG.14555.7
scaffold_34	25052371	25052591	MSTRG.14558.1	MSTRG.14558.1
scaffold_34	25054673	25054927	MSTRG.14559.1	MSTRG.14559.1
scaffold_34	25354729	25357678	MSTRG.14564.1	MSTRG.14564.1
scaffold_34	25793363	25793775	MSTRG.14567.1	MSTRG.14567.1
scaffold_34	25476631	25476847	MSTRG.14568.1	MSTRG.14568.1
scaffold_34	25854848	25855057	MSTRG.14571.1	MSTRG.14571.1
scaffold_34	25775048	25790458	MSTRG.14572.2	MSTRG.14572.2
scaffold_34	25800614	25801289	MSTRG.14573.1	MSTRG.14573.1
scaffold_34	26036379	26036611	MSTRG.14575.1	MSTRG.14575.1
scaffold_34	26061964	26062206	MSTRG.14579.1	MSTRG.14579.1
scaffold_34	26495938	26496157	MSTRG.14582.1	MSTRG.14582.1
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scaffold_34	27192418	27192640	MSTRG.14584.1	MSTRG.14584.1
scaffold_34	27194513	27194724	MSTRG.14586.1	MSTRG.14586.1
scaffold_34	26830860	26844150	MSTRG.14587.1	MSTRG.14587.1

scaffold_34	26830959	26844374	MSTRG.14587.2	MSTRG.14587.2
scaffold_34	27824377	27824980	MSTRG.14590.1	MSTRG.14590.1
scaffold_34	27955107	27955309	MSTRG.14591.1	MSTRG.14591.1
scaffold_34	28762142	28762404	MSTRG.14596.1	MSTRG.14596.1
scaffold_34	29153129	29213374	MSTRG.14597.2	MSTRG.14597.2
scaffold_34	29616602	29616817	MSTRG.14599.1	MSTRG.14599.1
scaffold_34	29619679	29620111	MSTRG.14600.1	MSTRG.14600.1
scaffold_34	29447874	29579706	MSTRG.14601.1	MSTRG.14601.1
scaffold_34	29579603	29615870	MSTRG.14602.1	MSTRG.14602.1
scaffold_34	29834166	29834393	MSTRG.14603.1	MSTRG.14603.1
scaffold_34	30442496	30442705	MSTRG.14608.1	MSTRG.14608.1
scaffold_34	30443186	30443402	MSTRG.14613.1	MSTRG.14613.1
scaffold_34	30447761	30448011	MSTRG.14614.1	MSTRG.14614.1
scaffold_34	30731809	30732012	MSTRG.14616.1	MSTRG.14616.1
scaffold_34	32140657	32140877	MSTRG.14617.1	MSTRG.14617.1
scaffold_34	31428834	32038943	MSTRG.14619.3	MSTRG.14619.3
scaffold_34	31578090	32038943	MSTRG.14619.4	MSTRG.14619.4
scaffold_34	31578090	31631534	MSTRG.14619.5	MSTRG.14619.5
scaffold_34	31723312	31975759	MSTRG.14619.9	MSTRG.14619.9
scaffold_34	31834845	31841639	MSTRG.14620.1	MSTRG.14620.1
scaffold_34	31983386	32029095	MSTRG.14621.1	MSTRG.14621.1
scaffold_34	32189699	32189910	MSTRG.14622.1	MSTRG.14622.1
scaffold_34	32536356	32539621	MSTRG.14627.1	MSTRG.14627.1
scaffold_34	32539710	32547285	MSTRG.14628.1	MSTRG.14628.1
scaffold_34	32380566	32447151	MSTRG.14633.1	MSTRG.14633.1
scaffold_34	32380566	32418764	MSTRG.14633.2	MSTRG.14633.2
scaffold_34	16172287	16216430	STYX_g15131.t1	STYX_g15131.t1
scaffold_34	20009412	20014785	ZEB1_g15149.t1	ZEB1_g15149.t1
scaffold_34	30672602	30804743	NRP1_g15213.t1	NRP1
scaffold_34	17868007	17927486	NSUN6_g15143.t1	NSUN6
scaffold_34	17866833	17927486	MSTRG.14527.3	NSUN6
scaffold_34	12312811	12338221	MSTRG.14476.1	NUDT5
scaffold_34	12312811	12337540	MSTRG.14476.2	NUDT5
scaffold_34	12313287	12326492	NUDT5_g15103.t1	NUDT5
scaffold_34	22195101	22195389	MSTRG.14541.1	OTUD1
scaffold_34	22192738	22194180	OTUD1_g15162.t1	OTUD1
scaffold_34	13292105	13328964	PAHX_g15110.t1	PAHX
scaffold_34	27790088	27822013	PAPD1_g15198.t1	PAPD1
scaffold_34	31416912	32038943	MSTRG.14619.1	PARD3
scaffold_34	31638207	32038943	MSTRG.14619.6	PARD3
scaffold_34	31638207	32038943	MSTRG.14619.7	PARD3
scaffold_34	31638375	32038943	MSTRG.14619.8	PARD3
scaffold_34	31418520	32038943	PARD3_g15217.t1	PARD3
scaffold_34	300940	632173	MSTRG.14424.4	PCSK5
scaffold_34	25065778	25066009	MSTRG.14563.1	PDSS1

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scaffold_34	13345400	13347990	MSTRG.14494.1	PHYH
scaffold_34	21410305	21575342	PI42A_g15157.t1	PI42A
scaffold_34	19078679	19509645	MSTRG.14528.1	PLXDC2
scaffold_34	1041730	1112540	MSTRG.14432.3	POU2F3
scaffold_34	1041730	1112540	MSTRG.14432.1	POU2F3
scaffold_34	1041730	1112540	MSTRG.14432.2	POU2F3
scaffold_34	1041733	1112540	MSTRG.14432.4	POU2F3
scaffold_34	2979346	3009808	PREP_g15046.t1	PREP
scaffold_34	13598681	13643183	PRP18_g15113.t1	PRPF18
scaffold_34	13598568	13673495	MSTRG.14504.1	PRPF18
scaffold_34	13598568	13637977	MSTRG.14504.2	PRPF18
scaffold_34	13598595	13662185	MSTRG.14504.3	PRPF18
scaffold_34	13598595	13673495	MSTRG.14504.4	PRPF18
scaffold_34	13598613	13673495	MSTRG.14504.5	PRPF18
scaffold_34	13637978	13673495	MSTRG.14504.7	PRPF18
scaffold_34	12043037	12063276	PRSR2_g15098.t1	PRSR2
scaffold_34	16041724	16103592	MSTRG.14513.1	PTER
scaffold_34	21959126	21960493	PTF1A_g15160.t1	PTF1A
scaffold_34	25651217	25665220	PTHD3_g15187.t1	PTHD3
scaffold_34	25791719	25792194	MSTRG.14569.1	RAB18
scaffold_34	25754349	25789019	RAB18_g15188.t1	RAB18
scaffold_34	6764301	6791564	MSTRG.14459.1	RBM17
scaffold_34	1157209	1168992	RED2_g15043.t1	RED2
scaffold_34	12110340	12208535	RENT2_g15099.t1	UPF2
scaffold_34	29457923	29565140	RHG12_g15207.t1	RHG12
scaffold_34	23142319	23268699	RHG21_g15164.t1	ARHGAP21
scaffold_34	23360443	23451533	RHG21_g15164.t2	ARHGAP21
scaffold_34	14854750	14859263	MSTRG.14508.1	RPP38
scaffold_34	14858415	14859263	RPP38_g15123.t1	RPP38
scaffold_34	12489063	12491026	MSTRG.14479.2	RSPH9
scaffold_34	16171794	16348729	MSTRG.14516.1	RSU1
scaffold_34	12282375	12310893	S61A2_g15102.t1	SEC61A2
scaffold_34	24986396	25023963	SELO_g15178.t1	SELENOO
scaffold_34	13337286	13339280	MSTRG.14492.1	SEPHS1
scaffold_34	13370640	13375218	MSTRG.14496.1	SEPHS1
scaffold_34	13370652	13398524	MSTRG.14496.2	SEPHS1
scaffold_34	13370652	13399379	MSTRG.14496.3	SEPHS1
scaffold_34	22818520	23112385	SKT_g15163.t1	SKT
scaffold_34	21254804	21315879	SPAG6_g15156.t1	SPAG6
scaffold_34	6771111	6791564	SPF45_g15079.t1	SPF45
scaffold_34	13372478	13396329	SPS1_g15111.t1	SEPHS1
scaffold_34	17051326	17124810	STAM1_g15138.t1	STAM
scaffold_34	17050690	17125733	MSTRG.14524.1	STAM1

scaffold_34	14713598	14740944	MSTRG.14514.1	SUV39H2
scaffold_34	14713794	14739987	SUV92_g15118.t1	SUV92
scaffold_34	28410225	28504639	SVIL_g15201.t1	SVIL
scaffold_34	6817742	6901625	MSTRG.14460.1	SZT2
scaffold_34	8357413	8538769	MSTRG.14463.1	TAF3
scaffold_34	8357413	8538769	TAF3_g15089.t1	TAF3
scaffold_34	23522526	23524757	THNS1_g15168.t1	THNSL1
scaffold_34	23526400	23526615	MSTRG.14554.1	THNSL1
scaffold_34	23037023	23038195	MSTRG.14546.1	TIGD1
scaffold_34	17157707	17187779	TM236_g15139.t1	TMEM236
scaffold_34	23299043	23316213	MSTRG.14553.2	TMEM30CP
scaffold_34	16632739	16688555	TRDMT_g15134.t1	TRDMT1
scaffold_34	16713805	16714024	MSTRG.14518.1	TRDMT1
scaffold_34	12213102	12214070	TRNK1_g15100.t1	TRANK1
scaffold_34	32058737	32063928	TSC2_g15219.t1	TSC2
scaffold_34	6005456	6005959	UCN3_g15068.t1	UCN3
scaffold_34	12110344	12127745	MSTRG.14473.4	UPF2
scaffold_34	12103501	12213802	MSTRG.14473.1	UPF2
scaffold_34	22738606	22828861	MSTRG.14543.4	USP31
scaffold_34	11686829	11856799	MSTRG.14469.1	USP6NL
scaffold_34	16714571	16722248	MSTRG.14521.1	VIM
scaffold_34	16714741	16721283	VIME_g15135.t1	VIM
scaffold_34	26844400	26927881	MSTRG.14588.1	WAC
scaffold_34	26845393	26926699	MSTRG.14588.3	WAC
scaffold_34	1060885	1110748	WDR37_g15042.t1	WDR37
scaffold_34	25304373	25353723	YMEL1_g15183.t1	YMEL1
scaffold_34	29214533	29215391	MSTRG.14598.1	ZEB1
scaffold_34	29035300	29214109	ZEB1_g15205.t1	ZEB1
scaffold_34	87656	167716	ZMY11_g15033.t1	ZMYND11
scaffold_34	44640	167716	MSTRG.14423.1	ZMYND11
scaffold_34	44640	125652	MSTRG.14423.2	ZMYND11
scaffold_34	28619194	28686827	ZN438_g15203.t1	ZNF438
scaffold_34	28618901	28805187	MSTRG.14595.1	ZNF438
scaffold_34	28619015	28805187	MSTRG.14595.2	ZNF438
scaffold_35	19384729	19396554	1433F_g15510.t1	YWHAH
scaffold_35	33289009	33289626	1433Z_g15704.t1	YWHAZ
scaffold_35	18944450	18998616	4ET_g15504.t1	EIF4ENIF1
scaffold_35	23355265	23362809	AA2AR_g15556.t1	ADORA2A
scaffold_35	27637363	27700634	AACS_g15658.t1	AACS
scaffold_35	27637255	27688383	MSTRG.15002.1	AACS
scaffold_35	27637284	27701137	MSTRG.15002.2	AACS
scaffold_35	10523260	10532998	AAKB1_g15363.t1	PRKAB1
scaffold_35	1566790	1586327	ABCB9_g15257.t1	ABCB9
scaffold_35	12384929	12465080	ACACB_g15403.t1	ACACB
scaffold_35	12383487	12465080	MSTRG.14804.1	ACACB

scaffold_35	12386817	12411597	MSTRG.14804.3	ACACB
scaffold_35	12386204	12445942	MSTRG.14805.1	ACACB
scaffold_35	11366977	11379817	ACADS_g15383.t1	ACADS
scaffold_35	11366897	11379817	MSTRG.14777.1	ACADS
scaffold_35	4126296	4173952	ACD10_g15308.t1	ACAD10
scaffold_35	12139233	12139442	MSTRG.14797.1	ADAM33
scaffold_35	4273035	4275734	ADM1A_g15311.t2	ADAM1A
scaffold_35	4288736	4291135	ADM1A_g15312.t1	ADAM1A
scaffold_35	31358641	31518510	AGRD1_g15675.t1	ADGRD1
scaffold_35	25598289	25606988	AIFM3_g15598.t1	AIFM3
scaffold_35	25610472	25610729	MSTRG.14945.1	AIFM3
scaffold_35	17704958	17709501	MSTRG.14852.2	AKAP5
scaffold_35	24753962	24780311	MSTRG.14928.1	AKAP5
scaffold_35	4187866	4215352	ALDH2_g15309.t1	ALDH2
scaffold_35	12538544	12541275	ALKB2_g15405.t1	ALKBH2
scaffold_35	11747796	11778069	AN13A_g15392.t1	ANKRD13A
scaffold_35	3149925	3171275	MSTRG.14696.1	ANAPC7
scaffold_35	3149980	3171275	MSTRG.14696.2	ANAPC7
scaffold_35	33383182	33397584	ANHX_g15706.t1	ANHX
scaffold_35	32951833	32975430	ANKL2_g15696.t1	ANKLE2
scaffold_35	17146809	17180506	AP1B1_g15460.t1	AP1B1
scaffold_35	17145575	17196799	MSTRG.14841.1	AP1B1
scaffold_35	2737315	2775171	APC5_g15286.t1	ANAPC5
scaffold_35	2796657	2830145	APC5_g15286.t2	ANAPC5
scaffold_35	3150860	3171275	APC7_g15291.t1	ANAPC7
scaffold_35	13979379	14097936	ARBK2_g15428.t1	GRK3
scaffold_35	1542550	1545565	MSTRG.14658.1	ARL6IP4
scaffold_35	1542550	1545565	MSTRG.14658.2	ARL6IP4
scaffold_35	1542621	1545565	MSTRG.14658.3	ARL6IP4
scaffold_35	1542787	1545565	MSTRG.14658.4	ARL6IP4
scaffold_35	1543062	1544732	OGFD2_g15256.t1	ARL6IP4
scaffold_35	3189473	3200042	ARPC3_g15292.t1	ARPC3
scaffold_35	27193368	27213677	ARVC_g15643.t1	ARVCF
scaffold_35	27192106	27241463	MSTRG.14979.1	ARVCF
scaffold_35	27195287	27196047	MSTRG.14979.3	ARVCF
scaffold_35	17478800	17519876	MSTRG.14848.1	ASCC2
scaffold_35	14700494	14707574	ASPH2_g15431.t1	ASPHD2
scaffold_35	3068630	3128691	AT2A2_g15290.t1	ATP2A2
scaffold_35	3068630	3128815	AT2A2_g15290.t2	ATP2A2
scaffold_35	11308566	11319066	MSTRG.14772.1	ATM
scaffold_35	3131628	3133038	MSTRG.14694.1	ATP2A2
scaffold_35	3068475	3079517	MSTRG.14695.1	ATP2A2
scaffold_35	978550	978832	MSTRG.14644.1	ATP6V0A2
scaffold_35	977233	977856	MSTRG.14660.1	ATP6V0A2
scaffold_35	3946821	4060301	ATX2_g15306.t1	ATXN2

scaffold_35	3944084	4060301	MSTRG.14711.1	ATXN2
scaffold_35	3944084	4060301	MSTRG.14711.2	ATXN2
scaffold_35	2111019	2112089	B3GN4_g15271.t1	B3GNT4
scaffold_35	12204849	12232754	BACD3_g15400.t1	KCTD10
scaffold_35	26356659	26359539	MSTRG.14961.1	BARHL1
scaffold_35	2227510	2227764	MSTRG.14676.1	BCL7A
scaffold_35	2232555	2257232	MSTRG.14678.2	BCL7A
scaffold_35	23549004	23684930	BCR_g15558.t1	BCR
scaffold_35	23546306	23556699	MSTRG.14913.1	BCR
scaffold_35	23548853	23577509	MSTRG.14913.2	BCR
scaffold_35	10766955	10862702	BICL1_g15365.t1	BICDL1
scaffold_35	4094000	4120907	BRAP_g15307.t1	BRAP
scaffold_35	4092029	4093507	MSTRG.14713.1	BRAP
scaffold_35	27618589	27619002	BRI3B_g15657.t1	BRI3BP
scaffold_35	23273377	23302643	BUP1_g15555.t1	UPB1
scaffold_35	11592263	11602007	CSTOS_g15387.t1	C12ORF43
scaffold_35	8129068	8144169	MSTRG.14737.1	SPRING1
scaffold_35	1325515	1326307	MSTRG.14655.2	MTRFR
scaffold_35	26775730	26783085	MSTRG.14969.1	C22ORF39
scaffold_35	26775975	26783085	MSTRG.14969.2	C22ORF39
scaffold_35	22990017	23127346	CABIN_g15548.t1	CABIN1
scaffold_35	22971644	23127346	MSTRG.14906.3	CABIN1
scaffold_35	17426094	17435247	CABP7_g15465.t1	CABP7
scaffold_35	17947537	17951526	CAST1_g15474.t1	ERC2
scaffold_35	16688489	16699287	CC117_g15450.t1	CCDC117
scaffold_35	18018471	18028330	CC157_g15477.t1	CCDC157
scaffold_35	26105908	26111483	CC74B_g15612.t1	CCDC74B
scaffold_35	832231	838154	CCD92_g15238.t1	CCDC92
scaffold_35	18012076	18028330	MSTRG.14857.1	CCDC157
scaffold_35	18012076	18028330	MSTRG.14857.2	CCDC157
scaffold_35	18012076	18028330	MSTRG.14857.3	CCDC157
scaffold_35	1677736	1720157	MSTRG.14662.1	CCDC62
scaffold_35	1677854	1720157	MSTRG.14662.2	CCDC62
scaffold_35	1677854	1720157	MSTRG.14662.3	CCDC62
scaffold_35	1678557	1720157	MSTRG.14662.4	CCDC62
scaffold_35	1688848	1717366	MSTRG.14662.6	CCDC62
scaffold_35	10766932	10862702	MSTRG.14756.1	BICDL1
scaffold_35	806133	838154	MSTRG.14635.1	CCDC92
scaffold_35	1400039	1542246	MSTRG.14657.2	CD19
scaffold_35	1400130	1542246	MSTRG.14657.4	CD19
scaffold_35	1400139	1542246	MSTRG.14657.5	CD19
scaffold_35	32446754	32450230	MSTRG.15020.2	CDC25C
scaffold_35	32446813	32450230	MSTRG.15020.3	CDC25C
scaffold_35	18227559	18228134	CDC42_g15485.t1	CDC42
scaffold_35	18226793	18227061	MSTRG.14862.1	CDC42

scaffold_35	26809811	26844765	CDC45_g15633.t1	CDC45
scaffold_35	26809566	26846640	MSTRG.14971.1	CDC45
scaffold_35	26809811	26846640	MSTRG.14971.2	CDC45
scaffold_35	26809811	26846640	MSTRG.14971.3	CDC45
scaffold_35	1311718	1321022	CDKA1_g15251.t1	CDK2AP1
scaffold_35	2229836	2257232	CF251_g15275.t1	CFAP251
scaffold_35	2270129	2333817	CF251_g15275.t2	CFAP251
scaffold_35	16622234	16661070	MSTRG.14826.1	CHEK2
scaffold_35	16622234	16661070	MSTRG.14826.2	CHEK2
scaffold_35	16622241	16661070	MSTRG.14826.3	CHEK2
scaffold_35	16622241	16661070	MSTRG.14826.4	CHEK2
scaffold_35	16630042	16633441	MSTRG.14826.6	CHEK2
scaffold_35	33121510	33170220	CHFR_g15699.t1	CHFR
scaffold_35	33048855	33074871	CHFR_g15699.t2	CHFR
scaffold_35	33046969	33075892	MSTRG.15031.1	CHFR
scaffold_35	33046969	33075892	MSTRG.15031.2	CHFR
scaffold_35	33047124	33075892	MSTRG.15031.3	CHFR
scaffold_35	16623639	16658886	CHK2_g15448.t1	CHEK2
scaffold_35	8445125	8491219	CHP3_g15349.t1	CHP3
scaffold_35	10538150	10696664	MSTRG.14758.1	CIT
scaffold_35	10538150	10638869	MSTRG.14758.2	CIT
scaffold_35	10538183	10696664	MSTRG.14758.3	CIT
scaffold_35	26520411	26589276	CLH2_g15627.t1	CLTCL1
scaffold_35	26589331	26622256	CLH2_g15628.t1	CLTCL1
scaffold_35	1981431	2072303	CLIP1_g15267.t1	CLIP1
scaffold_35	2011503	2072303	MSTRG.14671.5	CLIP1
scaffold_35	27191210	27191525	MSTRG.14976.1	CNOT3
scaffold_35	27186708	27190902	COMT_g15642.t1	COMT
scaffold_35	27180710	27190902	MSTRG.14978.1	COMT
scaffold_35	27180711	27190902	MSTRG.14978.2	COMT
scaffold_35	27180711	27190902	MSTRG.14978.3	COMT
scaffold_35	27180743	27185977	MSTRG.14978.4	COMT
scaffold_35	27185978	27190902	MSTRG.14978.6	COMT
scaffold_35	11182965	11197667	COQ5_g15377.t2	COQ5
scaffold_35	12786663	12857571	COR1C_g15411.t1	CORO1C
scaffold_35	2529197	2542688	CRCM1_g15283.t1	ORAI1
scaffold_35	25553788	25589850	MSTRG.14943.1	CRK
scaffold_35	25554300	25589850	CRKL_g15597.t1	CRKL
scaffold_35	22178983	22181644	CTR4_g15528.t1	SLC7A4
scaffold_35	22333607	22336287	CTR4_g15533.t1	SLC7A4
scaffold_35	22418422	22421100	CTR4_g15535.t1	SLC7A4
scaffold_35	22465295	22468067	CTR4_g15536.t1	SLC7A4
scaffold_35	22604588	22607212	CTR4_g15539.t1	SLC7A4
scaffold_35	22661862	22662464	CTR4_g15539.t2	SLC7A4
scaffold_35	24279414	24282090	CTR4_g15573.t1	SLC7A4

scaffold_35	25682912	25685483	CTR4_g15602.t1	SLC7A4
scaffold_35	26049030	26051867	CTR4_g15611.t2	SLC7A4
scaffold_35	3763492	3875231	CUX2_g15303.t1	CUX2
scaffold_35	3628865	3876407	MSTRG.14705.1	CUX2
scaffold_35	3628986	3844723	MSTRG.14705.2	CUX2
scaffold_35	16916232	16918753	CV031_g15453.t1	C22ORF31
scaffold_35	26780024	26783085	CV039_g15631.t1	C22ORF39
scaffold_35	11130009	11131772	CX6A1_g15372.t1	COX6A1
scaffold_35	23381052	23500815	CYTSA_g15557.t1	SPECC1L
scaffold_35	2097539	2110702	DBLOH_g15270.t1	DIABLO
scaffold_35	12759892	12778954	DDX28_g15410.t1	DDX28
scaffold_35	32450229	32455110	DDX51_g15686.t1	DDX51
scaffold_35	32447986	32455110	MSTRG.15022.1	DDX51
scaffold_35	5311935	5330958	DDX54_g15327.t1	DDX54
scaffold_35	1075867	1091935	DDX55_g15244.t1	DDX55
scaffold_35	1075750	1077349	MSTRG.14651.1	DDX55
scaffold_35	1075750	1080183	MSTRG.14651.2	DDX55
scaffold_35	1724316	1734985	DENR_g15261.t1	DENR
scaffold_35	1722493	1736026	MSTRG.14664.1	DENR
scaffold_35	19236196	19302292	MSTRG.14891.1	DEPDC5
scaffold_35	19236196	19354728	MSTRG.14891.2	DEPDC5
scaffold_35	19306383	19354728	MSTRG.14891.4	DEPDC5
scaffold_35	26357499	26442058	MSTRG.14962.1	DGCR2
scaffold_35	27532402	27538431	DGCR6_g15655.t1	DGCR6
scaffold_35	27531413	27538431	MSTRG.14988.1	DGCR6L
scaffold_35	27299647	27333292	DGCR8_g15646.t1	DGCR8
scaffold_35	27299590	27333292	DGCR8_g15646.t2	DGCR8
scaffold_35	27333486	27336337	DGCR8_g15647.t1	DGCR8
scaffold_35	27294407	27333292	MSTRG.14982.1	DGCR8
scaffold_35	27299349	27332889	MSTRG.14982.2	DGCR8
scaffold_35	27333416	27338137	MSTRG.14983.1	DGCR8
scaffold_35	27333416	27338137	MSTRG.14983.2	DGCR8
scaffold_35	27335380	27336337	MSTRG.14983.4	DGCR8
scaffold_35	23159	55426	DHX37_g15229.t1	DHX37
scaffold_35	49023	56977	MSTRG.14629.2	DHX37
scaffold_35	52599	56977	MSTRG.14629.3	DHX37
scaffold_35	2097459	2110702	MSTRG.14673.1	DIABLO
scaffold_35	22966951	22969032	DOPD_g15547.t1	DDT
scaffold_35	32862788	32925437	DPOE1_g15693.t1	POLE
scaffold_35	18918069	18939434	DRG1_g15503.t1	DRG1
scaffold_35	5191014	5208715	DTX1_g15324.t1	DTX1
scaffold_35	11177653	11179738	DYL1_g15376.t1	DYNLL1
scaffold_35	11177331	11179738	MSTRG.14769.1	DYNLL1
scaffold_35	1065442	1081340	MSTRG.14650.1	EIF2B1
scaffold_35	1065473	1075302	MSTRG.14650.3	EIF2B1

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scaffold_35	18944158	18968023	MSTRG.14885.3	EIF4ENIF1
scaffold_35	17035733	17052025	EMID1_g15455.t1	EMID1
scaffold_35	17053769	17083725	EMID1_g15455.t2	EMID1
scaffold_35	17053902	17083725	MSTRG.14837.2	EMID1
scaffold_35	17053902	17083725	MSTRG.14837.3	EMID1
scaffold_35	32439420	32450230	EP400_g15685.t1	EP400
scaffold_35	32394732	32395352	MSTRG.15017.1	EP400
scaffold_35	32269939	32377394	MSTRG.15018.1	EP400
scaffold_35	32269939	32377394	MSTRG.15018.2	EP400
scaffold_35	32269939	32377394	MSTRG.15018.3	EP400
scaffold_35	32269950	32377394	MSTRG.15018.4	EP400
scaffold_35	32398926	32436996	MSTRG.15019.1	EP400
scaffold_35	32400923	32423492	MSTRG.15019.2	EP400
scaffold_35	32440130	32440343	MSTRG.15021.1	EP400
scaffold_35	4392848	4399841	ERP29_g15314.t1	ERP29
scaffold_35	4392836	4399841	ERP29_g15314.t2	ERP29
scaffold_35	26453791	26463510	ESS2_g15624.t1	ESS2
scaffold_35	17090634	17119645	EWS_g15457.t1	EWS
scaffold_35	17090633	17119645	MSTRG.14839.1	EWSR1
scaffold_35	17090634	17119645	MSTRG.14839.2	EWSR1
scaffold_35	24000302	24001431	MSTRG.14920.1	EXO5
scaffold_35	3214525	3222776	F216A_g15294.t1	F216A
scaffold_35	8190636	8191337	MSTRG.14739.1	FADS6
scaffold_35	25049463	25049690	MSTRG.14933.1	FBLIM1
scaffold_35	32803094	32807544	MSTRG.15025.7	FBRSL1
scaffold_35	32722823	32813054	FBSL_g15689.t1	FBRSL1
scaffold_35	8516708	8558483	MSTRG.14746.1	FBXO21
scaffold_35	8516717	8558483	MSTRG.14746.2	FBXO21
scaffold_35	8517678	8558483	MSTRG.14746.3	FBXO21
scaffold_35	8323432	8437351	FBXW8_g15348.t1	FBXW8
scaffold_35	8429961	8442332	MSTRG.14743.3	FBXW8
scaffold_35	12967396	12969822	FICD_g15416.t1	FICD
scaffold_35	12965287	12971406	MSTRG.14812.1	FICD
scaffold_35	12965600	12971406	MSTRG.14812.2	FICD
scaffold_35	12319018	12375395	FOXN4_g15402.t1	FOXN4
scaffold_35	30768943	30770688	FZD10_g15668.t1	FZD10
scaffold_35	17127683	17131948	GA2L1_g15458.t1	GAS2L1
scaffold_35	32502955	32603000	GALT9_g15688.t1	GALT9
scaffold_35	17126530	17131948	MSTRG.14840.1	GAS2L1
scaffold_35	11135705	11145023	GATC_g15374.t1	GATC
scaffold_35	11135683	11142321	MSTRG.14767.1	GATC
scaffold_35	10899500	10956326	GCN1_g15367.t1	GCN1
scaffold_35	10898817	10956326	MSTRG.14760.1	GCN1

scaffold_35	17704805	17714768	GELS_g15470.t1	GELS
scaffold_35	23182141	23192673	GGT1_g15551.t1	GGT1
scaffold_35	11780893	11828158	GIT2_g15393.t1	GIT2
scaffold_35	11780815	11828528	MSTRG.14791.1	GIT2
scaffold_35	11802147	11828528	MSTRG.14791.3	GIT2
scaffold_35	29819638	29913841	GL1D1_g15665.t1	GLT1D1
scaffold_35	28374499	28385107	GLPK2_g15660.t1	GK2
scaffold_35	23731065	23760698	GNAZ_g15563.t1	GNAZ
scaffold_35	23730498	23730830	MSTRG.14914.1	GNAZ
scaffold_35	27045579	27106880	MSTRG.14974.1	GNB1
scaffold_35	27102280	27106880	MSTRG.14974.3	GNB1
scaffold_35	27045889	27079207	GNB1L_g15638.t1	GNB1L
scaffold_35	27106642	27106995	NU133_g15640.t1	GNBIL
scaffold_35	32986541	33032251	GOGA3_g15697.t1	GOGA3
scaffold_35	32983073	32992968	MSTRG.15030.2	GOLGA3
scaffold_35	32986541	33037588	MSTRG.15030.3	GOLGA3
scaffold_35	3202878	3213774	GPN3_g15293.t1	GPN3
scaffold_35	13979338	14103532	MSTRG.14813.1	GRK3
scaffold_35	22964294	22964985	GSTT3_g15546.t2	GSTT1
scaffold_35	1043590	1053971	MSTRG.14649.1	GTF2H3
scaffold_35	22842089	22855476	GTR11_g15542.t1	SLC2A11
scaffold_35	23244363	23255524	GUCD1_g15554.t1	GUCD1
scaffold_35	23243494	23255524	MSTRG.14908.1	GUCD1
scaffold_35	23243497	23255524	MSTRG.14908.2	GUCD1
scaffold_35	23243497	23255524	MSTRG.14908.3	GUCD1
scaffold_35	23243691	23255524	MSTRG.14908.4	GUCD1
scaffold_35	1762187	1763176	HCAR2_g15263.t1	HCAR2
scaffold_35	4540855	4574284	HECD4_g15317.t1	HECTD4
scaffold_35	4575172	4716639	HECD4_g15318.t1	HECTD4
scaffold_35	4538574	4573251	MSTRG.14726.1	HECTD4
scaffold_35	4538574	4573251	MSTRG.14726.2	HECTD4
scaffold_35	4538615	4551382	MSTRG.14726.3	HECTD4
scaffold_35	4555120	4716639	MSTRG.14726.5	HECTD4
scaffold_35	25422839	25430910	HEP2_g15594.t1	HEP2
scaffold_35	24598921	24602583	HIC2_g15574.t1	HIC2
scaffold_35	24594081	24623876	MSTRG.14922.1	HIC2
scaffold_35	26663989	26771413	HIRA_g15629.t1	HIRA
scaffold_35	26662723	26771413	MSTRG.14968.1	HIRA
scaffold_35	26663023	26771413	MSTRG.14968.2	HIRA
scaffold_35	26734515	26771413	MSTRG.14968.4	HIRA
scaffold_35	11569657	11589968	HNF1A_g15386.t2	HNF1A
scaffold_35	17729119	17789459	HORM2_g15471.t1	HORM2
scaffold_35	2388971	2398354	HPPD_g15277.t1	HPD
scaffold_35	14718118	14741928	HPS4_g15432.t1	HPS4
scaffold_35	14715941	14743476	MSTRG.14818.1	HPS4

scaffold_35	14720764	14732472	MSTRG.14818.3	HPS4
scaffold_35	14725099	14732472	MSTRG.14818.4	HPS4
scaffold_35	14734086	14743476	MSTRG.14818.5	HPS4
scaffold_35	16661364	16677332	HSC20_g15449.t1	HSCB
scaffold_35	16661214	16677332	HSC20_g15449.t2	HSCB
scaffold_35	3350835	3390470	HVCN1_g15299.t1	HVCN1
scaffold_35	26360194	26442058	IDD_g15620.t1	IDD
scaffold_35	2945684	3020091	IFT81_g15289.t1	IFT81
scaffold_35	31334162	31334475	MSTRG.15008.1	IGSF9B
scaffold_35	12921827	12928241	ISCU_g15414.t1	ISCU
scaffold_35	13727320	13860357	K1671_g15425.t1	K1671
scaffold_35	2567924	2688817	KDM2B_g15284.t1	KDM2B
scaffold_35	12102512	12121995	KIME_g15396.t1	MVK
scaffold_35	26199933	26232788	ATM_g15614.t1	KLHL22
scaffold_35	29913993	29914274	MSTRG.15005.1	KLHL22
scaffold_35	1210279	1223699	KMT5A_g15249.t1	KMT5A
scaffold_35	1208497	1240053	MSTRG.14653.1	KMT5A
scaffold_35	1794153	1867276	MSTRG.14668.1	KNTC1
scaffold_35	16926347	16996289	KREM1_g15454.t1	KREMEN1
scaffold_35	16926235	16996289	MSTRG.14835.1	KREMEN1
scaffold_35	26449823	26450083	LDLR_g15622.t1	LDLR
scaffold_35	17901692	17903035	LIF_g15472.t1	LIF
scaffold_35	18776694	18831697	LIMK2_g15500.t1	LIMK2
scaffold_35	19916874	19924445	LOC000000036_g15514.t1	LOC000000036
scaffold_35	4273233	4275734	ADM1A_g15311.t1	LOC101400422
scaffold_35	4288628	4291135	ADM1A_g15312.t2	LOC101400422
scaffold_35	25745736	25752208	MSTRG.14951.1	LOC101406273
scaffold_35	25866139	25877466	LR74B_g15604.t1	LRRC74B
scaffold_35	26011551	26037373	LR74B_g15608.t1	LRRC74B
scaffold_35	23206355	23212742	LR75B_g15552.t1	LR75B
scaffold_35	25033141	25033548	LRC14_g15588.t1	LRC14
scaffold_35	2115568	2136818	LRC43_g15272.t1	LRC43
scaffold_35	32830636	32842288	LRCL1_g15691.t1	LRCL1
scaffold_35	33032252	33037588	LTBP1_g15698.t1	LTBP1
scaffold_35	16980691	16996289	MSTRG.14835.3	PTPRC
scaffold_35	342938	450455	MSTRG.14631.1	LY6G6C
scaffold_35	33096378	33096581	MSTRG.15036.1	LY75
scaffold_35	25611485	25628742	LZTR1_g15600.t1	LZTR1
scaffold_35	25611520	25628742	MSTRG.14946.2	LZTR1
scaffold_35	24820508	24923297	MSTRG.14930.1	MAPK1
scaffold_35	4228992	4270768	MAPK5_g15310.t1	MAPK5
scaffold_35	4228336	4270768	MSTRG.14718.1	MAPKAPK5
scaffold_35	4228336	4270768	MSTRG.14718.2	MAPKAPK5
scaffold_35	7586288	7883320	MSTRG.14738.1	MED13L
scaffold_35	7586288	7883320	MSTRG.14738.2	MED13L

scaffold_35	7586329	7883320	MSTRG.14738.3	MED13L
scaffold_35	26113950	26183076	MED15_g15613.t1	MED15
scaffold_35	26113958	26143073	MSTRG.14957.4	MED15
scaffold_35	26112418	26113336	MSTRG.14955.1	MED15
scaffold_35	26113939	26143073	MSTRG.14957.1	MED15
scaffold_35	26113958	26143073	MSTRG.14957.3	MED15
scaffold_35	22829551	22830134	MIF_g15541.t1	MIF
scaffold_35	11059769	11083031	MSTRG.14763.1	MIS1
scaffold_35	11059769	11083031	MSTRG.14763.2	MIS1
scaffold_35	11059770	11083031	MSTRG.14763.3	MIS1
scaffold_35	11059770	11083031	MSTRG.14763.4	MIS1
scaffold_35	11059778	11083031	MSTRG.14763.5	MIS1
scaffold_35	24825461	24923297	MK01_g15583.t1	MK01
scaffold_35	11320503	11329456	MLEC_g15381.t1	MLEC
scaffold_35	2158557	2211835	MLXIP_g15274.t1	MLXIP
scaffold_35	2167992	2171964	MSTRG.14677.2	MLXIP
scaffold_35	2153559	2155101	MSTRG.14674.1	MLXIP
scaffold_35	2155380	2157955	MSTRG.14675.1	MLXIP
scaffold_35	12123273	12137135	MMAB_g15397.t1	MMAB
scaffold_35	12123242	12130100	MSTRG.14798.1	MMAB
scaffold_35	32174322	32195105	MMP17_g15681.t1	MMP17
scaffold_35	32186836	32195105	MSTRG.15011.2	MMP17
scaffold_35	15852320	15854782	MN1_g15444.t2	MN1
scaffold_35	18550561	18589063	MORC2_g15492.t1	MORC2
scaffold_35	18549811	18589913	MSTRG.14874.1	MORC2
scaffold_35	1336402	1394554	MSTRG.14656.1	MPHOSPH9
scaffold_35	1336402	1394554	MSTRG.14656.2	MPHOSPH9
scaffold_35	1336405	1394554	MSTRG.14656.3	MPHOSPH9
scaffold_35	1338728	1394554	MPP9_g15253.t1	MPHOSPH9
scaffold_35	18071674	18074255	MTFP1_g15480.t1	MTFP1
scaffold_35	17647191	17705459	MTMR3_g15469.t1	MTMR3
scaffold_35	1324363	1336111	CCNF_g15252.t1	MTRFR
scaffold_35	12101811	12122961	MSTRG.14796.1	MVK
scaffold_35	14105959	14361227	MY18B_g15429.t1	MYO18B
scaffold_35	23957411	23957866	MSTRG.14918.1	MZT2B
scaffold_35	25741713	25742135	MSTRG.14950.1	MZT2B
scaffold_35	4401914	4473968	MSTRG.14722.1	NAA25
scaffold_35	4406915	4473968	NAA25_g15315.t1	NAA25
scaffold_35	5444337	5451383	NCLX_g15332.t1	SLC8B1
scaffold_35	455121	556916	MSTRG.14636.1	NCOR2
scaffold_35	488401	556916	MSTRG.14636.3	NCOR2
scaffold_35	499144	556916	MSTRG.14636.7	NCOR2
scaffold_35	499202	556916	MSTRG.14636.8	NCOR2
scaffold_35	455131	556916	NCOR2_g15233.t1	NCOR2
scaffold_35	17327233	17390151	MSTRG.14844.1	NF2

scaffold_35	17327280	17405494	MSTRG.14844.2	NF2
scaffold_35	17237357	17245062	NFH_g15461.t1	NEFH
scaffold_35	17299927	17314510	THOC5_g15462.t2	NIPSNAP1
scaffold_35	32455223	32460175	NOC4L_g15687.t1	NOC4L
scaffold_35	8574737	8658257	NOS1_g15351.t1	NOS1
scaffold_35	207	19713	BRI3B_g15228.t1	BRI3B_g15228.t1
scaffold_35	5304695	5310688	CFA73_g15326.t1	CFA73_g15326.t1
scaffold_35	32285105	32377394	EP400_g15684.t1	EP400_g15684.t1
scaffold_35	23938659	23939504	FV1_g15567.t1	FV1_g15567.t1
scaffold_35	75130	75621	MSTRG.14626.1	MSTRG.14626.1
scaffold_35	119925	191509	MSTRG.14630.1	MSTRG.14630.1
scaffold_35	76223	79032	MSTRG.14632.1	MSTRG.14632.1
scaffold_35	77143	79032	MSTRG.14632.10	MSTRG.14632.10
scaffold_35	77143	79032	MSTRG.14632.11	MSTRG.14632.11
scaffold_35	76223	79032	MSTRG.14632.2	MSTRG.14632.2
scaffold_35	76223	79032	MSTRG.14632.3	MSTRG.14632.3
scaffold_35	76229	79032	MSTRG.14632.4	MSTRG.14632.4
scaffold_35	76229	79032	MSTRG.14632.5	MSTRG.14632.5
scaffold_35	76234	79032	MSTRG.14632.6	MSTRG.14632.6
scaffold_35	77143	79032	MSTRG.14632.7	MSTRG.14632.7
scaffold_35	77143	79032	MSTRG.14632.8	MSTRG.14632.8
scaffold_35	77143	79032	MSTRG.14632.9	MSTRG.14632.9
scaffold_35	841643	841848	MSTRG.14643.1	MSTRG.14643.1
scaffold_35	1236822	1240004	MSTRG.14653.3	MSTRG.14653.3
scaffold_35	1895771	1901964	MSTRG.14667.3	MSTRG.14667.3
scaffold_35	1948272	2072303	MSTRG.14671.2	MSTRG.14671.2
scaffold_35	1956565	2072303	MSTRG.14671.3	MSTRG.14671.3
scaffold_35	2426567	2426796	MSTRG.14681.1	MSTRG.14681.1
scaffold_35	2427143	2435117	MSTRG.14683.1	MSTRG.14683.1
scaffold_35	2427247	2435117	MSTRG.14683.2	MSTRG.14683.2
scaffold_35	2427258	2428354	MSTRG.14683.3	MSTRG.14683.3
scaffold_35	2655858	2675316	MSTRG.14686.2	MSTRG.14686.2
scaffold_35	2655939	2690353	MSTRG.14686.3	MSTRG.14686.3
scaffold_35	2830689	2831017	MSTRG.14689.1	MSTRG.14689.1
scaffold_35	2781367	2830145	MSTRG.14690.1	MSTRG.14690.1
scaffold_35	2781368	2830145	MSTRG.14690.2	MSTRG.14690.2
scaffold_35	2784921	2830145	MSTRG.14690.3	MSTRG.14690.3
scaffold_35	2843378	2844036	MSTRG.14692.1	MSTRG.14692.1
scaffold_35	3735139	3735367	MSTRG.14706.1	MSTRG.14706.1
scaffold_35	3883418	3889733	MSTRG.14707.1	MSTRG.14707.1
scaffold_35	3884584	3889733	MSTRG.14707.2	MSTRG.14707.2
scaffold_35	4069834	4070037	MSTRG.14708.1	MSTRG.14708.1
scaffold_35	4086508	4086772	MSTRG.14709.1	MSTRG.14709.1
scaffold_35	4180988	4181213	MSTRG.14712.1	MSTRG.14712.1
scaffold_35	4121126	4173952	MSTRG.14715.1	MSTRG.14715.1

scaffold_35	4121161	4173952	MSTRG.14715.2	MSTRG.14715.2
scaffold_35	4121162	4173952	MSTRG.14715.3	MSTRG.14715.3
scaffold_35	4183470	4183676	MSTRG.14716.1	MSTRG.14716.1
scaffold_35	4233909	4265926	MSTRG.14718.4	MSTRG.14718.4
scaffold_35	4400979	4401232	MSTRG.14721.1	MSTRG.14721.1
scaffold_35	4496395	4521899	MSTRG.14723.1	MSTRG.14723.1
scaffold_35	7583999	7584205	MSTRG.14734.1	MSTRG.14734.1
scaffold_35	5813517	5948214	MSTRG.14735.1	MSTRG.14735.1
scaffold_35	7883617	7883867	MSTRG.14736.1	MSTRG.14736.1
scaffold_35	8193156	8193384	MSTRG.14740.1	MSTRG.14740.1
scaffold_35	8288311	8288512	MSTRG.14742.1	MSTRG.14742.1
scaffold_35	8323375	8440602	MSTRG.14743.1	MSTRG.14743.1
scaffold_35	8440882	8441157	MSTRG.14744.1	MSTRG.14744.1
scaffold_35	9331967	9516067	MSTRG.14751.1	MSTRG.14751.1
scaffold_35	9543147	9545907	MSTRG.14753.1	MSTRG.14753.1
scaffold_35	10533339	10533562	MSTRG.14754.1	MSTRG.14754.1
scaffold_35	11132304	11133088	MSTRG.14764.1	MSTRG.14764.1
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scaffold_35	11648667	11648872	MSTRG.14779.1	MSTRG.14779.1
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scaffold_35	11676203	11676544	MSTRG.14786.1	MSTRG.14786.1
scaffold_35	11740149	11743059	MSTRG.14787.1	MSTRG.14787.1
scaffold_35	12000156	12000363	MSTRG.14794.1	MSTRG.14794.1
scaffold_35	12496943	12497155	MSTRG.14801.1	MSTRG.14801.1
scaffold_35	12791394	12858699	MSTRG.14808.2	MSTRG.14808.2
scaffold_35	13364309	13364564	MSTRG.14811.1	MSTRG.14811.1
scaffold_35	14051810	14095958	MSTRG.14813.4	MSTRG.14813.4
scaffold_35	14855501	14855707	MSTRG.14817.1	MSTRG.14817.1
scaffold_35	14743527	14754589	MSTRG.14819.2	MSTRG.14819.2
scaffold_35	16688384	16699287	MSTRG.14824.1	MSTRG.14824.1
scaffold_35	16688489	16699287	MSTRG.14824.2	MSTRG.14824.2
scaffold_35	16700623	16701442	MSTRG.14825.1	MSTRG.14825.1
scaffold_35	16648663	16659851	MSTRG.14826.7	MSTRG.14826.7
scaffold_35	16913571	16913915	MSTRG.14829.1	MSTRG.14829.1
scaffold_35	16709928	16710152	MSTRG.14830.1	MSTRG.14830.1
scaffold_35	16790202	16790402	MSTRG.14832.1	MSTRG.14832.1
scaffold_35	16857400	16857625	MSTRG.14833.1	MSTRG.14833.1
scaffold_35	16861382	16861611	MSTRG.14834.1	MSTRG.14834.1
scaffold_35	17874938	17875150	MSTRG.14849.1	MSTRG.14849.1
scaffold_35	17549345	17705459	MSTRG.14851.1	MSTRG.14851.1
scaffold_35	17557774	17705459	MSTRG.14851.2	MSTRG.14851.2
scaffold_35	17563128	17705459	MSTRG.14851.3	MSTRG.14851.3
scaffold_35	17576925	17705459	MSTRG.14851.4	MSTRG.14851.4
scaffold_35	17705576	17712978	MSTRG.14853.1	MSTRG.14853.1
scaffold_35	17714855	17715084	MSTRG.14854.1	MSTRG.14854.1

scaffold_35	18330586	18330866	MSTRG.14866.1	MSTRG.14866.1
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scaffold_35	18348346	18348571	MSTRG.14871.1	MSTRG.14871.1
scaffold_35	18590173	18600795	MSTRG.14875.1	MSTRG.14875.1
scaffold_35	18590173	18600795	MSTRG.14875.2	MSTRG.14875.2
scaffold_35	18590173	18600795	MSTRG.14875.3	MSTRG.14875.3
scaffold_35	18590624	18600795	MSTRG.14875.4	MSTRG.14875.4
scaffold_35	18590624	18600795	MSTRG.14875.5	MSTRG.14875.5
scaffold_35	18740817	18772175	MSTRG.14879.1	MSTRG.14879.1
scaffold_35	18740852	18772175	MSTRG.14879.2	MSTRG.14879.2
scaffold_35	18988235	19087094	MSTRG.14886.1	MSTRG.14886.1
scaffold_35	18989340	19087094	MSTRG.14886.2	MSTRG.14886.2
scaffold_35	18992706	19087094	MSTRG.14886.3	MSTRG.14886.3
scaffold_35	19455789	19456003	MSTRG.14890.1	MSTRG.14890.1
scaffold_35	19946632	19949157	MSTRG.14892.1	MSTRG.14892.1
scaffold_35	19946634	20052244	MSTRG.14892.2	MSTRG.14892.2
scaffold_35	21169960	21170189	MSTRG.14894.1	MSTRG.14894.1
scaffold_35	22601802	22604564	MSTRG.14898.1	MSTRG.14898.1
scaffold_35	22647357	22647955	MSTRG.14900.1	MSTRG.14900.1
scaffold_35	22971485	23127346	MSTRG.14906.1	MSTRG.14906.1
scaffold_35	22971627	23127346	MSTRG.14906.2	MSTRG.14906.2
scaffold_35	23381691	23482599	MSTRG.14909.4	MSTRG.14909.4
scaffold_35	23361604	23361827	MSTRG.14911.1	MSTRG.14911.1
scaffold_35	24001923	24002240	MSTRG.14921.1	MSTRG.14921.1
scaffold_35	24781900	24782105	MSTRG.14925.1	MSTRG.14925.1
scaffold_35	24881708	24883742	MSTRG.14931.1	MSTRG.14931.1
scaffold_35	25058507	25058740	MSTRG.14934.1	MSTRG.14934.1
scaffold_35	25134203	25142967	MSTRG.14936.1	MSTRG.14936.1
scaffold_35	25216904	25221291	MSTRG.14940.1	MSTRG.14940.1
scaffold_35	25216906	25219466	MSTRG.14940.2	MSTRG.14940.2
scaffold_35	25216996	25218199	MSTRG.14940.3	MSTRG.14940.3
scaffold_35	26195100	26232788	MSTRG.14956.1	MSTRG.14956.1
scaffold_35	26270508	26270786	MSTRG.14958.1	MSTRG.14958.1
scaffold_35	26306962	26307176	MSTRG.14959.1	MSTRG.14959.1
scaffold_35	26299980	26305812	MSTRG.14960.1	MSTRG.14960.1
scaffold_35	26299981	26305812	MSTRG.14960.2	MSTRG.14960.2
scaffold_35	26299983	26303847	MSTRG.14960.3	MSTRG.14960.3
scaffold_35	26962876	26963093	MSTRG.14972.1	MSTRG.14972.1
scaffold_35	27183757	27185977	MSTRG.14978.5	MSTRG.14978.5
scaffold_35	27248895	27289943	MSTRG.14980.2	MSTRG.14980.2
scaffold_35	27249710	27289943	MSTRG.14980.3	MSTRG.14980.3
scaffold_35	27570687	27570953	MSTRG.14986.1	MSTRG.14986.1
scaffold_35	27599633	27599845	MSTRG.14990.1	MSTRG.14990.1
scaffold_35	27593380	27593868	MSTRG.14991.1	MSTRG.14991.1
scaffold_35	27598161	27598751	MSTRG.14993.1	MSTRG.14993.1

scaffold_35	27591996	27592343	MSTRG.14995.1	MSTRG.14995.1
scaffold_35	27703008	27703227	MSTRG.14997.1	MSTRG.14997.1
scaffold_35	27706904	27707677	MSTRG.14998.1	MSTRG.14998.1
scaffold_35	27772188	27772405	MSTRG.14999.1	MSTRG.14999.1
scaffold_35	28519985	28520297	MSTRG.15000.1	MSTRG.15000.1
scaffold_35	28520727	28521017	MSTRG.15001.1	MSTRG.15001.1
scaffold_35	29862843	29913841	MSTRG.15004.2	MSTRG.15004.2
scaffold_35	31298353	31298571	MSTRG.15007.1	MSTRG.15007.1
scaffold_35	31337106	31340549	MSTRG.15009.1	MSTRG.15009.1
scaffold_35	31357879	31518510	MSTRG.15010.1	MSTRG.15010.1
scaffold_35	31357879	31493118	MSTRG.15010.2	MSTRG.15010.2
scaffold_35	31358043	31493118	MSTRG.15010.3	MSTRG.15010.3
scaffold_35	32221793	32227569	MSTRG.15015.1	MSTRG.15015.1
scaffold_35	32269980	32377394	MSTRG.15018.5	MSTRG.15018.5
scaffold_35	32269986	32377394	MSTRG.15018.6	MSTRG.15018.6
scaffold_35	32269986	32369360	MSTRG.15018.7	MSTRG.15018.7
scaffold_35	32743272	32745903	MSTRG.15026.1	MSTRG.15026.1
scaffold_35	32743272	32745903	MSTRG.15026.2	MSTRG.15026.2
scaffold_35	32975678	33037588	MSTRG.15030.1	MSTRG.15030.1
scaffold_35	33158598	33158814	MSTRG.15035.1	MSTRG.15035.1
scaffold_35	33209811	33242412	MSTRG.15037.3	MSTRG.15037.3
scaffold_35	33292176	33292382	MSTRG.15041.1	MSTRG.15041.1
scaffold_35	22235694	22236158	NSMA3_g15529.t1	SMPD4
scaffold_35	25979337	25990170	NSMA3_g15607.t1	SMPD4
scaffold_35	5146831	5152429	OAS1_g15322.t1	OAS1
scaffold_35	5161726	5179465	OAS3_g15323.t1	OAS3
scaffold_35	11604076	11620539	OASL_g15388.t1	OASL
scaffold_35	11632383	11644117	OASL2_g15389.t1	OASL2
scaffold_35	1546493	1550681	OGFD2_g15256.t2	OGFOD2
scaffold_35	1545808	1550681	MSTRG.14659.1	OGFOD2
scaffold_35	17920845	17933011	ONCM_g15473.t1	OCM
scaffold_35	18339927	18345445	OSBP2_g15491.t1	OSBP2
scaffold_35	18358469	18534620	MSTRG.14872.1	OSBP2
scaffold_35	18535126	18535344	MSTRG.14873.1	OSBP2
scaffold_35	13478640	13479152	P12L1_g15420.t1	P12L1
scaffold_35	2832739	2848148	P2RX4_g15287.t1	P2RX4
scaffold_35	21197961	21209627	P2RX6_g15523.t1	P2RX6
scaffold_35	22600329	22601403	MSTRG.14901.1	P2RX6
scaffold_35	26038212	26046700	MSTRG.14954.1	P2RX6
scaffold_35	2870719	2908173	P2RX7_g15288.t1	P2RX7
scaffold_35	18835188	18844792	P3IP1_g15501.t1	PIK3IP1
scaffold_35	18870541	18889399	MSTRG.14882.1	PATZ1
scaffold_35	18870560	18890048	MSTRG.14882.2	PATZ1
scaffold_35	10965908	11008853	PAXI_g15369.t1	PXN
scaffold_35	18172961	18188144	MSTRG.14863.1	PES1

scaffold_35	32939219	32948269	PGAM5_g15695.t1	PGAM5
scaffold_35	32939183	32948269	MSTRG.15024.1	PGAM5
scaffold_35	32939195	32948269	MSTRG.15024.2	PGAM5
scaffold_35	25378848	25446475	MSTRG.14941.2	PI4KA
scaffold_35	25453620	25511315	MSTRG.14941.4	PI4KA
scaffold_35	25219956	25417452	PI4KA_g15593.t1	PI4KA
scaffold_35	25436031	25511315	PI4KA_g15595.t1	PI4KA
scaffold_35	18709299	18715519	PI5PA_g15497.t1	PI5PA
scaffold_35	19001123	19087094	SFI1_g15505.t1	PISD
scaffold_35	19086665	19101091	MSTRG.14887.1	PISD
scaffold_35	19087281	19124643	MSTRG.14887.2	PISD
scaffold_35	15895887	15962920	MSTRG.14821.1	PITPNB
scaffold_35	1464724	1542246	MSTRG.14657.6	PITPNM2
scaffold_35	1507078	1542246	MSTRG.14657.8	PITPNM2
scaffold_35	30904867	30931501	PIWL1_g15670.t1	PIWL1
scaffold_35	19376545	19380326	PKP4_g15509.t1	PKP4
scaffold_35	11045225	11051790	MSI1H_g15371.t1	PLA2G1B
scaffold_35	5468601	5492777	PLBL2_g15333.t1	PLBD2
scaffold_35	18589064	18590020	PLCD1_g15493.t1	PLCD1
scaffold_35	3327750	3349564	MSTRG.14702.4	PLCE1
scaffold_35	32861164	32925437	MSTRG.15028.1	POLE
scaffold_35	32861879	32925437	MSTRG.15028.2	POLE
scaffold_35	11235721	11240082	POP5_g15379.t1	POP5
scaffold_35	11235678	11240082	MSTRG.14773.1	POP5
scaffold_35	11236014	11240082	MSTRG.14773.3	POP5
scaffold_35	3409599	3428455	PP1G_g15300.t1	PPP1CC
scaffold_35	24754040	24780311	PPIL2_g15581.t1	PPIL2
scaffold_35	19098537	19103113	MSTRG.14888.1	PPM1B
scaffold_35	24961581	24977607	PPM1F_g15585.t1	PPM1F
scaffold_35	24958642	24984339	MSTRG.14932.1	PPM1F
scaffold_35	3408673	3428455	MSTRG.14704.1	PPP1CC
scaffold_35	3270437	3303819	PPTC7_g15297.t1	PPTC7
scaffold_35	3266718	3282852	MSTRG.14701.1	PPTC7
scaffold_35	20083259	20087490	PRAME_g15519.t1	PRAME
scaffold_35	27509234	27530883	PROD_g15654.t1	PRODH
scaffold_35	19157448	19231704	MSTRG.14884.1	PRR14L
scaffold_35	19157448	19231704	MSTRG.14884.2	PRR14L
scaffold_35	19158698	19231704	MSTRG.14884.3	PRR14L
scaffold_35	1507392	1542246	MSTRG.14657.9	PRSS52P
scaffold_35	2337015	2356480	PSMD9_g15276.t1	PSMD9
scaffold_35	4750593	4838938	PTN11_g15320.t1	PTPN11
scaffold_35	4750426	4842716	MSTRG.14725.1	PTPN11
scaffold_35	15757199	15760202	PUM3_g15443.t1	PUM3
scaffold_35	32248752	32263312	MSTRG.15016.1	PUS1
scaffold_35	32248808	32263312	MSTRG.15016.2	PUS1

scaffold_35	32925811	32935734	PXMP2_g15694.t1	PXMP2
scaffold_35	17462773	17464591	MSTRG.14847.1	QCR9
scaffold_35	17462773	17463012	QCR9_g15467.t1	QCR9
scaffold_35	10863043	10882595	MSTRG.14757.1	RAB35
scaffold_35	10865362	10881270	RAB35_g15366.t1	RAB35
scaffold_35	23696189	23696389	MSTRG.14912.1	RAB36
scaffold_35	23698074	23698400	RAB36_g15560.t1	RAB36
scaffold_35	23702511	23715554	RAB36_g15561.t1	RAB36
scaffold_35	27601854	27602131	MSTRG.14994.1	RALGDS
scaffold_35	27604881	27605105	MSTRG.14996.1	RALGDS
scaffold_35	31299648	31302950	MSTRG.15006.1	RAN
scaffold_35	27344130	27351407	RANG_g15649.t1	RANG
scaffold_35	9220257	9231833	MSTRG.14747.1	RFC5
scaffold_35	9220374	9231189	RFC5_g15353.t1	RFC5
scaffold_35	27600297	27600659	MSTRG.14992.1	RGL1
scaffold_35	17084969	17087948	RHBD3_g15456.t1	RHBDD3
scaffold_35	17084364	17090194	MSTRG.14838.1	RHBDD3
scaffold_35	17084364	17090194	MSTRG.14838.2	RHBDD3
scaffold_35	17084792	17090194	MSTRG.14838.3	RHBDD3
scaffold_35	17084792	17090194	MSTRG.14838.4	RHBDD3
scaffold_35	2436745	2448023	RHOF_g15280.t1	RHOF
scaffold_35	1122465	1165551	MSTRG.14641.1	RILPL1
scaffold_35	24636604	24641562	RIM3A_g15575.t1	RIMBP3
scaffold_35	1122941	1165551	RIPL1_g15246.t1	RIPL1
scaffold_35	5331220	5336228	MSTRG.14729.1	RITA1
scaffold_35	5332251	5336228	RITA1_g15328.t1	RITA1
scaffold_35	2058350	2058745	RL21_g15268.t1	RPL21
scaffold_35	4733459	4737695	RL6_g15319.t1	RPL6
scaffold_35	10957408	10964432	RLA0_g15368.t1	RLA0
scaffold_35	26772565	26775334	RM40_g15630.t1	RM40
scaffold_35	18030245	18036374	RN215_g15478.t1	RN215
scaffold_35	11200596	11233904	MSTRG.14771.1	RNF10
scaffold_35	11201074	11229855	RNF10_g15378.t1	RNF10
scaffold_35	18029829	18036455	MSTRG.14861.2	RNF215
scaffold_35	18029453	18036455	MSTRG.14861.1	RNF215
scaffold_35	18029829	18036455	MSTRG.14861.3	RNF215
scaffold_35	2691742	2708789	MSTRG.14687.1	RNF34
scaffold_35	2692535	2708789	MSTRG.14687.3	RNF34
scaffold_35	8216746	8280448	RNFT2_g15346.t1	RNFT2
scaffold_35	4732148	4738758	MSTRG.14724.1	RPL6
scaffold_35	4732148	4738758	MSTRG.14724.2	RPL6
scaffold_35	4733459	4738758	MSTRG.14724.3	RPL6
scaffold_35	10957346	10960973	MSTRG.14761.1	RPLP0
scaffold_35	25539580	25540081	MSTRG.14939.1	RPS8
scaffold_35	17132483	17134466	RSLAA_g15459.t1	RASL10A

scaffold_35	23784212	23794578	RSP14_g15564.t1	RSPH14
scaffold_35	1867434	1885846	MSTRG.14669.1	RSRC2
scaffold_35	1874979	1885846	MSTRG.14669.3	RSRC2
scaffold_35	1867686	1885846	RSRC2_g15265.t1	RSRC2
scaffold_35	27454838	27479569	RTN4R_g15653.t1	RTN4R
scaffold_35	18050140	18068326	S14L2_g15479.t1	S14L2
scaffold_35	29779313	29807460	S15A4_g15664.t1	SLC15A4
scaffold_35	29779313	29808686	S15A4_g15664.t2	SLC15A4
scaffold_35	11681851	11710921	S2611_g15390.t1	SLC26A11
scaffold_35	22402480	22405677	S2611_g15534.t1	SLC26A11
scaffold_35	18314187	18321211	S35E4_g15489.t1	SLC35E4
scaffold_35	1947419	2072303	MSTRG.14671.1	SAPCD1
scaffold_35	12929707	12964360	MSTRG.14810.1	SART3
scaffold_35	12950251	12954896	MSTRG.14810.3	SART3
scaffold_35	12929707	12964360	SART3_g15415.t1	SART3
scaffold_35	1240234	1301390	MSTRG.14654.1	SBNO1
scaffold_35	1249248	1301390	MSTRG.14654.2	SBNO1
scaffold_35	1249248	1295842	SBNO1_g15250.t1	SBNO1
scaffold_35	23799566	23866366	SC5A1_g15565.t1	SC5A1
scaffold_35	19947416	19963343	SCFD1_g15516.t1	SCFD1
scaffold_35	32813053	32813505	SCNAA_g15690.t1	SCN10A
scaffold_35	120161	191509	SCRB1_g15231.t1	SCRB1
scaffold_35	24726576	24728547	SDF2L_g15579.t1	SDF2L
scaffold_35	5495444	5500742	SDHL_g15334.t1	SDS
scaffold_35	5516257	5525296	SDSL_g15335.t1	SDSL
scaffold_35	18069740	18069988	MSTRG.14860.1	SEC14L2
scaffold_35	18699228	18701808	MSTRG.14878.1	SELENOM
scaffold_35	18700065	18701808	MSTRG.14878.3	SELENOM
scaffold_35	18699387	18699692	SELM_g15496.t1	SELM
scaffold_35	12879021	12880256	SELPL_g15412.t1	SELPL
scaffold_35	26978136	26987171	MSTRG.14973.1	SEPTIN5
scaffold_35	26978221	26987281	MSTRG.14973.2	SEPTIN5
scaffold_35	26981970	26987171	MSTRG.14973.4	SEPTIN5
scaffold_35	26982059	26990120	MSTRG.14973.5	SEPTIN5
scaffold_35	26978221	26986350	SEPT5_g15635.t1	SEPTIN5
scaffold_35	3884584	3885338	SESQ1_g15304.t1	SESQ1
scaffold_35	2402310	2425992	MSTRG.14682.1	SETD1B
scaffold_35	17995053	18002146	MSTRG.14856.2	SF3A1
scaffold_35	17992196	18012181	SF3A1_g15476.t1	SF3A1
scaffold_35	32075113	32157843	SFSWA_g15680.t1	SFSWAP
scaffold_35	32074941	32157843	MSTRG.15013.1	SFSWAP
scaffold_35	32074981	32157843	MSTRG.15013.2	SFSWAP
scaffold_35	32074981	32157843	MSTRG.15013.3	SFSWAP
scaffold_35	3918485	3944044	MSTRG.14710.1	SH2B3
scaffold_35	3940987	3944044	SH2B3_g15305.t1	SH2B3

scaffold_35	11030905	11034714	SIR4_g15370.t1	SIR4
scaffold_35	33146159	33149621	MSTRG.15034.1	SLC12A3
scaffold_35	29778403	29807460	MSTRG.15003.1	SLC15A4
scaffold_35	22464938	22467092	MSTRG.14895.3	SLC7A4
scaffold_35	22464611	22496865	MSTRG.14895.2	SLC7A4
scaffold_35	22604645	22606218	MSTRG.14899.2	SLC7A4
scaffold_35	25681085	25741230	MSTRG.14949.1	SLC7A4
scaffold_35	5428033	5435677	MSTRG.14732.1	SLC8B1
scaffold_35	5428044	5453721	MSTRG.14732.2	SLC8B1
scaffold_35	23225500	23241758	SMD3_g15553.t1	SNRPD3
scaffold_35	23958170	23959953	MSTRG.14919.1	SMPD4
scaffold_35	25978456	25990170	MSTRG.14952.1	SMPD4
scaffold_35	25978485	25990170	MSTRG.14952.2	SMPD4
scaffold_35	25992583	26001168	MSTRG.14953.2	SMPD4
scaffold_35	25994411	26001168	MSTRG.14953.3	SMPD4
scaffold_35	18675795	18679839	MSTRG.14876.1	SMTN
scaffold_35	18676681	18699042	MSTRG.14877.1	SMTN
scaffold_35	18683199	18695785	SMTN_g15495.t1	SMTN
scaffold_35	18698642	18699042	SMTN_g15495.t2	SMTN
scaffold_35	25532248	25536103	MSTRG.14938.1	SNAP29
scaffold_35	25511623	25531874	SNP29_g15596.t1	SNP29
scaffold_35	1167389	1172682	MSTRG.14645.1	SNRNP35
scaffold_35	23224889	23243367	MSTRG.14907.1	SNRPD3
scaffold_35	23225500	23243367	MSTRG.14907.2	SNRPD3
scaffold_35	23377295	23535011	MSTRG.14909.1	SPECC1L
scaffold_35	23377295	23535011	MSTRG.14909.2	SPECC1L
scaffold_35	11417519	11531113	SPPL3_g15384.t1	SPPL3
scaffold_35	26236767	26248055	SREC2_g15615.t1	SCARF2
scaffold_35	14743510	14754589	SRR1L_g15433.t1	SRRD
scaffold_35	9982609	10129350	SRRM4_g15359.t1	SRRM4
scaffold_35	11146149	11152523	SRSF9_g15375.t1	SRSF9
scaffold_35	12697349	12759361	MSTRG.14807.1	SSH1
scaffold_35	31250770	31286805	STX2_g15673.t1	STX2
scaffold_35	9518445	9554574	MSTRG.14752.1	SUDS3
scaffold_35	12581032	12653856	SVOP_g15407.t1	SVOP
scaffold_35	468586	469353	MSTRG.14638.1	SYMPK
scaffold_35	2451018	2489934	T120B_g15281.t1	T120B
scaffold_35	459159	460046	T132C_g15234.t1	TMEM132C
scaffold_35	9333580	9416561	TAOK3_g15357.t1	TAOK3
scaffold_35	17954291	17984737	TB10A_g15475.t1	TBC1D10A
scaffold_35	22664100	22666274	TBA3_g15540.t1	TBA3
scaffold_35	23948764	23950862	TBA3_g15569.t1	TBA3
scaffold_35	17954839	17956946	MSTRG.14855.2	TBC1D10A
scaffold_35	6501207	6512418	TBX3_g15340.t1	TBX3
scaffold_35	11840749	11845995	MSTRG.14793.1	TCHP

scaffold_35	11842020	11862493	TCHP_g15394.t1	TCHP
scaffold_35	18294000	18309422	MSTRG.14865.2	TCN2
scaffold_35	18294505	18309422	TCO2_g15488.t1	TCN2
scaffold_35	3324236	3350824	MSTRG.14702.1	TCTN1
scaffold_35	3324246	3350824	MSTRG.14702.2	TCTN1
scaffold_35	3345208	3350824	TECT1_g15298.t2	TCTN1
scaffold_35	8443700	8491219	MSTRG.14745.1	TESC
scaffold_35	8444446	8491219	MSTRG.14745.2	TESC
scaffold_35	11604773	11605021	MSTRG.14785.1	TEX11
scaffold_35	1045021	1065352	TF2H3_g15242.t1	GTF2H3
scaffold_35	14753777	14770731	MSTRG.14820.1	TFIP11
scaffold_35	33333241	33333454	MSTRG.15045.1	TGFA
scaffold_35	27580574	27581941	MSTRG.14989.1	THAP4
scaffold_35	27578162	27580227	SCN1A_g15656.t1	THAP4
scaffold_35	25630091	25634156	MSTRG.14948.1	THAP7
scaffold_35	25630259	25633644	MSTRG.14948.2	THAP7
scaffold_35	25633645	25634156	THAP7_g15601.t2	THAP7
scaffold_35	17264219	17297827	MSTRG.14842.1	THOC5
scaffold_35	17264219	17297827	MSTRG.14842.2	THOC5
scaffold_35	17264349	17297827	MSTRG.14842.3	THOC5
scaffold_35	17264387	17297827	MSTRG.14842.4	THOC5
scaffold_35	17264511	17296111	THOC5_g15462.t1	THOC5
scaffold_35	4315030	4390604	TM116_g15313.t1	TMEM116
scaffold_35	2434147	2435117	MSTRG.14683.5	TM6SF2
scaffold_35	1094831	1102790	TMED2_g15245.t1	TMED2
scaffold_35	2450715	2467866	MSTRG.14684.1	TMEM120B
scaffold_35	32722750	32813054	MSTRG.15025.1	TMEM35B
scaffold_35	32722751	32813054	MSTRG.15025.2	TMEM35B
scaffold_35	32722751	32743030	MSTRG.15025.3	TMEM35B
scaffold_35	32722751	32813054	MSTRG.15025.4	TMEM35B
scaffold_35	32722751	32813054	MSTRG.15025.5	TMEM35B
scaffold_35	494863	556916	MSTRG.14636.4	TMEM63A
scaffold_35	498798	556916	MSTRG.14636.5	TMEM63A
scaffold_35	498813	556916	MSTRG.14636.6	TMEM63A
scaffold_35	27245054	27289943	TNG2_g15645.t1	TNG2
scaffold_35	24989117	25010218	MSTRG.14935.1	TOP3B
scaffold_35	24989117	25010262	MSTRG.14935.2	TOP3B
scaffold_35	24989179	25010262	MSTRG.14935.3	TOP3B
scaffold_35	24989179	25010262	MSTRG.14935.4	TOP3B
scaffold_35	24989179	25006604	MSTRG.14935.5	TOP3B
scaffold_35	24997109	25009320	MSTRG.14935.7	TOP3B
scaffold_35	24997385	25009320	MSTRG.14935.8	TOP3B
scaffold_35	24989250	25006604	TOP3B_g15586.t1	TOP3B
scaffold_35	5368849	5426312	TPC1_g15330.t1	TPC1
scaffold_35	5366132	5427783	MSTRG.14731.1	TPCN1

scaffold_35	14786106	14790216	TPST2_g15435.t1	TPST2
scaffold_35	14835242	14845757	TPST2_g15435.t2	TPST2
scaffold_35	14777994	14829011	MSTRG.14814.1	TPST2
scaffold_35	14777994	14807293	MSTRG.14814.2	TPST2
scaffold_35	14778005	14807293	MSTRG.14814.3	TPST2
scaffold_35	4499033	4521899	TRAD1_g15316.t1	TRAFD1
scaffold_35	11134557	11135641	TRIA1_g15373.t1	TRIAP1
scaffold_35	27338993	27343733	TRM2A_g15648.t1	TRM2A
scaffold_35	27339934	27343733	MSTRG.14981.2	TRMT2A
scaffold_35	11873856	11896399	TRPV4_g15395.t1	TRPV4
scaffold_35	11920604	11943385	TRPV4_g15395.t2	TRPV4
scaffold_35	11920604	11943385	TRPV4_g15395.t3	TRPV4
scaffold_35	32248808	32263312	TRUA_g15683.t1	TRUA
scaffold_35	27124525	27180712	TRXR2_g15641.t1	TXNRD2
scaffold_35	26444614	26445708	TSSK1_g15621.t1	TSSK1
scaffold_35	26450542	26451630	TSSK2_g15623.t1	TSSK2
scaffold_35	16012112	16618515	MSTRG.14823.1	TTC28
scaffold_35	16012112	16618515	MSTRG.14823.2	TTC28
scaffold_35	16013038	16618515	MSTRG.14823.3	TTC28
scaffold_35	22662175	22666274	MSTRG.14902.2	TUBA3C
scaffold_35	26009972	26011457	NSMA3_g15607.t3	TUBA3C
scaffold_35	25636377	25636978	MSTRG.14947.1	TUBAL3
scaffold_35	27123102	27180712	MSTRG.14977.1	TXNRD2
scaffold_35	26492956	26495454	TXTP_g15626.t1	TXTP
scaffold_35	11340831	11353322	U119B_g15382.t1	U119B
scaffold_35	24650590	24707432	UB2L3_g15576.t1	UB2L3
scaffold_35	77143	79032	UBC_g15230.t1	UBC
scaffold_35	77143	79032	UBC_g15230.t2	UBC
scaffold_35	12150754	12204441	MSTRG.14800.1	UBE3B
scaffold_35	12182612	12204441	MSTRG.14800.4	UBE3B
scaffold_35	12152763	12181608	UBE3B_g15398.t1	UBE3B
scaffold_35	12543879	12567981	UBP30_g15406.t1	UBP30
scaffold_35	26784887	26809030	MSTRG.14970.1	UFD1
scaffold_35	26785782	26809030	UFD1_g15632.t1	UFD1
scaffold_35	32220437	32244730	MSTRG.15014.1	ULK1
scaffold_35	32220437	32244730	MSTRG.15014.2	ULK1
scaffold_35	32220437	32244730	MSTRG.15014.3	ULK1
scaffold_35	11346914	11353768	MSTRG.14776.2	UNC119B
scaffold_35	12524901	12535532	UNG_g15404.t1	UNG
scaffold_35	2074006	2097071	VP33A_g15269.t1	VP33A
scaffold_35	1612445	1639279	VP37B_g15258.t1	VP37B
scaffold_35	980159	1017178	VPP2_g15240.t1	VPP2
scaffold_35	3223666	3229251	MSTRG.14700.1	VPS29
scaffold_35	3223666	3231177	MSTRG.14700.2	VPS29
scaffold_35	3223735	3231177	MSTRG.14700.3	VPS29

scaffold_35	3223735	3229251	MSTRG.14700.4	VPS29
scaffold_35	3224029	3231177	VPS29_g15295.t1	VPS29
scaffold_35	2073966	2081335	MSTRG.14670.1	VPS33A
scaffold_35	1639403	1641044	MSTRG.14666.1	VPS37B
scaffold_35	9256158	9285817	VSI10_g15355.t1	VSI10
scaffold_35	9253463	9272933	MSTRG.14748.1	VSIG10
scaffold_35	11707494	11707844	MSTRG.14789.1	WIPF3
scaffold_35	22393433	22496865	MSTRG.14895.1	WIPF3
scaffold_35	9233448	9251118	WSB2_g15354.t1	WSB2
scaffold_35	16702927	16706972	XBP1_g15451.t1	XBP1
scaffold_35	16701970	16706972	MSTRG.14828.1	XBP1
scaffold_35	24713315	24714958	YDJC_g15577.t2	YDJC
scaffold_35	24782458	24782661	MSTRG.14926.1	YPEL1
scaffold_35	24783669	24784225	MSTRG.14927.1	YPEL1
scaffold_35	24784813	24804447	YPEL1_g15582.t1	YPEL1
scaffold_35	33290388	33291367	MSTRG.15040.1	YWHAZ
scaffold_35	20058165	20059686	Z280A_g15518.t1	ZNF280A
scaffold_35	20033798	20035502	Z280B_g15517.t1	ZNF280B
scaffold_35	1890550	1919445	MSTRG.14667.1	ZCCHC8
scaffold_35	1890589	1918328	ZCHC8_g15266.t1	ZCCHC8
scaffold_35	27355424	27369843	MSTRG.14985.1	ZDHHC8
scaffold_35	26309600	26331039	ZFP2_g15617.t1	ZFP2
scaffold_35	17435418	17462505	MSTRG.14846.1	ZMAT5
scaffold_35	17435418	17462694	MSTRG.14846.2	ZMAT5
scaffold_35	17436874	17450209	ZMAT5_g15466.t1	ZMAT5
scaffold_35	33297681	33329456	ZN268_g15705.t1	ZNF268
scaffold_35	33330264	33369368	ZN268_g15705.t2	ZNF268
scaffold_35	763773	765153	ZN664_g15237.t1	ZNF664
scaffold_35	33281921	33283807	ZN891_g15703.t1	ZNF891
scaffold_35	33317199	33317473	MSTRG.15043.1	ZNF10
scaffold_35	33178056	33195384	MSTRG.15037.1	ZNF208
scaffold_35	33244537	33269300	MSTRG.15038.1	ZNF208
scaffold_35	33244569	33269300	MSTRG.15038.3	ZNF208
scaffold_35	33178122	33216021	ZNF26_g15700.t1	ZNF26
scaffold_35	33330501	33369368	MSTRG.15044.2	ZNF268
scaffold_35	20058165	20063331	MSTRG.14893.1	ZNF280A
scaffold_35	20030772	20052244	MSTRG.14892.4	ZNF280B
scaffold_35	1166420	1166622	MSTRG.14646.1	ZNF444
scaffold_35	33142048	33145554	MSTRG.15033.2	ZNF605
scaffold_35	761244	805653	MSTRG.14634.1	ZNF664
scaffold_35	761245	805653	MSTRG.14634.2	ZNF664
scaffold_35	761245	805997	MSTRG.14634.3	ZNF664
scaffold_35	762492	805653	MSTRG.14634.4	ZNF664
scaffold_35	762492	805653	MSTRG.14634.5	ZNF664
scaffold_35	26272882	26286330	ZNF74_g15616.t1	ZNF74

scaffold_35	16609385	16618515	MSTRG.14823.8	ZNF79
scaffold_35	33108606	33121457	MSTRG.15032.1	ZNF84
scaffold_35	33216022	33242412	ZNF84_g15701.t1	ZNF84
scaffold_35	16766592	16912175	ZNRF3_g15452.t1	ZNRF3
scaffold_36	104533	131476	AA1R_g15710.t1	ADORA1
scaffold_36	310413	325571	MSTRG.15053.1	ADIPOR1
scaffold_36	310413	325571	MSTRG.15053.2	ADIPOR1
scaffold_36	310431	325571	MSTRG.15053.3	ADIPOR1
scaffold_36	103327	103615	MSTRG.15047.1	ADORA1
scaffold_36	30346712	30386891	MSTRG.15233.1	ADSS2
scaffold_36	24740304	24834368	MSTRG.15205.1	AHCTF1
scaffold_36	25368052	25373039	MSTRG.15211.1	AKAP5
scaffold_36	29518417	29825063	AKT3_g15898.t1	AKT3
scaffold_36	29513443	29836860	MSTRG.15231.1	AKT3
scaffold_36	29514499	29836860	MSTRG.15231.2	AKT3
scaffold_36	29559095	29593989	MSTRG.15231.4	AKT3
scaffold_36	1098752	1115179	AMPB_g15733.t1	RNPEP
scaffold_36	1010452	1018265	ARL8A_g15730.t1	ARL8A
scaffold_36	1010313	1018265	MSTRG.15059.1	ARL8A
scaffold_36	1010384	1018265	MSTRG.15059.2	ARL8A
scaffold_36	1839093	1839653	ASCL5_g15748.t1	ASCL5
scaffold_36	5257621	5307753	ASPM_g15773.t1	ASPM
scaffold_36	5257417	5307753	MSTRG.15096.1	ASPM
scaffold_36	5257429	5307753	MSTRG.15096.2	ASPM
scaffold_36	21589623	21647056	ASPP2_g15840.t1	TP53BP2
scaffold_36	8760010	8761278	B3GT2_g15785.t1	B3GALT2
scaffold_36	28210558	28211868	BECN2_g15893.t1	BECN2
scaffold_36	18317503	18332569	BPNT1_g15810.t1	BPNT1
scaffold_36	18316936	18337991	MSTRG.15140.1	BPNT1
scaffold_36	18317027	18337991	MSTRG.15140.2	BPNT1
scaffold_36	11281916	11476171	BRNP3_g15795.t1	BRINP3
scaffold_36	20680760	20695332	BROX_g15828.t1	BROX
scaffold_36	20678096	20697428	MSTRG.15158.1	BROX
scaffold_36	20678350	20697428	MSTRG.15158.2	BROX
scaffold_36	20678638	20697428	MSTRG.15158.3	BROX
scaffold_36	18878996	18885780	CA115_g15814.t1	C1ORF115
scaffold_36	18887760	18887986	MSTRG.15149.1	C1ORF115
scaffold_36	24172185	24176530	MSTRG.15202.1	MFF
scaffold_36	4582345	4587233	CA053_g15768.t1	C1ORF53
scaffold_36	7926997	7927219	MSTRG.15102.1	CA5A
scaffold_36	2054314	2168611	CAMP2_g15753.t1	CAMSAP2
scaffold_36	21526682	21583164	CAN2_g15839.t1	CAPN2
scaffold_36	23051543	23051779	CCHL_g15854.t1	HCCS
scaffold_36	24293024	24604289	MSTRG.15204.1	CDC42BPA
scaffold_36	3649056	3705273	CDR2L_g15760.t1	CDR2L

scaffold_36	29150259	29285320	MSTRG.15229.1	CEP170
scaffold_36	29152141	29188422	MSTRG.15229.2	CEP170
scaffold_36	29152288	29285320	MSTRG.15229.3	CEP170
scaffold_36	5582640	5627244	CFAH_g15778.t1	CFH
scaffold_36	5670798	5716472	CFAH_g15779.t1	CFAH_g15779.t1
scaffold_36	5602851	5807841	MSTRG.15097.2	CFH
scaffold_36	27890356	27892314	RAE2_g15889.t1	CHML
scaffold_36	21961371	21974153	CNIH4_g15844.t1	CNIH4
scaffold_36	21966192	21974153	MSTRG.15172.2	CNIH4
scaffold_36	24998710	25073788	CNST_g15875.t1	CNST
scaffold_36	24995899	25112440	MSTRG.15207.1	CNST
scaffold_36	24995963	25028405	MSTRG.15207.2	CNST
scaffold_36	25034500	25112440	MSTRG.15207.4	CNST
scaffold_36	24270672	24291536	COQ8A_g15871.t1	COQ8A
scaffold_36	24270645	24291536	COQ8A_g15871.t2	COQ8A
scaffold_36	30729906	30738139	COX20_g15906.t1	COX20
scaffold_36	30735253	30738139	MSTRG.15248.4	COX20
scaffold_36	4991456	5185709	CRUM1_g15770.t1	CRB1
scaffold_36	23220343	23247682	CSCL1_g15857.t1	TMEM63A
scaffold_36	23302307	23334417	CSCL1_g15858.t1	TMEM63A
scaffold_36	26416182	26447427	CSCL1_g15880.t1	TMEM63A
scaffold_36	1512976	1524054	CSRP1_g15739.t1	CSRP1
scaffold_36	1502346	1524054	MSTRG.15069.1	CSRP1
scaffold_36	30388572	30574401	CTSRE_g15904.t1	CATSPERE
scaffold_36	302436	310284	MSTRG.15052.1	CYB5R1
scaffold_36	302473	310284	MSTRG.15052.2	CYB5R1
scaffold_36	26374731	26374934	MSTRG.15216.1	CYP7A1
scaffold_36	2242027	2262857	MSTRG.15073.1	DDX59
scaffold_36	21796992	21807812	DEGS1_g15842.t1	DEGS1
scaffold_36	4680101	4920791	DEN1B_g15769.t1	DENND1B
scaffold_36	30586293	30633893	DESI2_g15905.t1	DESI2
scaffold_36	30586255	30620437	MSTRG.15238.1	DESI2
scaffold_36	19822843	19857567	DUS10_g15819.t1	DUSP10
scaffold_36	19821719	19859921	MSTRG.15152.1	DUSP10
scaffold_36	22465452	22648259	DYH14_g15849.t1	DNAH14
scaffold_36	1090911	1094509	ELF3_g15732.t1	ELF3
scaffold_36	1090257	1109333	MSTRG.15064.1	ELF3
scaffold_36	1090280	1095002	MSTRG.15064.2	ELF3
scaffold_36	24756237	24834368	ELYS_g15873.t1	AHCTF1
scaffold_36	22909772	23055490	ENAH_g15853.t1	ENAH
scaffold_36	22907094	22936158	MSTRG.15180.3	ENAH
scaffold_36	18265927	18272954	MSTRG.15138.1	EPRS1
scaffold_36	14996142	15254953	ERR3_g15799.t1	ESRRG
scaffold_36	15033327	15033693	MSTRG.15114.1	ESRRG
scaffold_36	28096909	28137823	EXO1_g15891.t1	EXO1

scaffold_36	28095114	28137823	MSTRG.15224.1	EXO1
scaffold_36	20707353	20710890	F177B_g15829.t1	FAM177B
scaffold_36	21756887	21758883	MSTRG.15167.1	FBXO28
scaffold_36	5602899	5609802	MSTRG.15097.3	FH
scaffold_36	5670704	5807841	MSTRG.15097.4	FH
scaffold_36	26545670	26890098	MSTRG.15222.1	FMN2
scaffold_36	26546063	26890098	MSTRG.15222.3	FMN2
scaffold_36	26546063	26890098	MSTRG.15222.4	FMN2
scaffold_36	27759923	27785922	FUMH_g15886.t1	FUMH
scaffold_36	8855535	8863553	GLRX2_g15786.t1	GLRX2
scaffold_36	15922969	16107288	MSTRG.15125.1	GPATCH2
scaffold_36	16086683	16107288	MSTRG.15125.3	GPATCH2
scaffold_36	15927034	16107288	GPTC2_g15800.t1	GPTC2
scaffold_36	26902725	27009254	MSTRG.15219.1	GREM2
scaffold_36	23456280	23464474	MSTRG.15191.1	H3-3A
scaffold_36	23457814	23464474	H33_g15862.t1	H33
scaffold_36	20350603	20546411	HIPL2_g15824.t1	HHIPL2
scaffold_36	20546976	20547356	HIPL2_g15824.t2	HHIPL2
scaffold_36	19053850	19058733	HLX_g15817.t1	HLX
scaffold_36	2122368	2122635	MSTRG.15072.1	HMMR
scaffold_36	30738357	30759648	MSTRG.15249.1	HNRNPU
scaffold_36	30738357	30759648	MSTRG.15249.2	HNRNPU
scaffold_36	30747557	30759648	MSTRG.15249.3	HNRNPU
scaffold_36	30748797	30758050	HNRPU_g15907.t1	HNRPU
scaffold_36	18341683	18401124	MSTRG.15143.1	IARS2
scaffold_36	2006206	2024174	INAVA_g15751.t1	INAVA
scaffold_36	25484801	25488810	MSTRG.15212.1	INHBE
scaffold_36	23972877	24069393	IP3KB_g15869.t1	ITPKB
scaffold_36	1197573	1240131	IPO9_g15737.t1	IPO9
scaffold_36	1193259	1240131	MSTRG.15066.1	IPO9
scaffold_36	1193516	1240131	MSTRG.15066.2	IPO9
scaffold_36	5824993	6191668	KCNT2_g15781.t1	KCNT2
scaffold_36	5845203	6077190	MSTRG.15101.2	KCNT2
scaffold_36	5845388	6191668	MSTRG.15101.3	KCNT2
scaffold_36	5845404	6191668	MSTRG.15101.4	KCNT2
scaffold_36	6084702	6103750	MSTRG.15101.5	KCNT2
scaffold_36	14129409	14188769	KCTD3_g15797.t1	KCTD3
scaffold_36	415532	493925	KDM5B_g15724.t1	KDM5B
scaffold_36	415541	459781	MSTRG.15057.2	KDM5B
scaffold_36	494578	494850	MSTRG.15056.1	KDM5B
scaffold_36	1928834	1962731	KI21B_g15750.t1	KI21B
scaffold_36	25864183	26180521	KI26B_g15878.t1	KIF26B
scaffold_36	2293796	2353277	KIF14_g15755.t1	KIF14
scaffold_36	25868101	25870098	MSTRG.15214.1	KIF26B
scaffold_36	328497	359820	KLH12_g15719.t1	KLHL12

scaffold_36	22279941	22280161	MSTRG.15177.1	KLHL11
scaffold_36	27808193	27849040	KMO_g15887.t1	KMO
scaffold_36	1591789	1606569	LAD1_g15744.t1	LAD1
scaffold_36	1609335	1628207	LAD1_g15744.t2	LAD1
scaffold_36	836156	852517	MSTRG.15062.2	LAMP2
scaffold_36	837877	852517	MSTRG.15062.3	LAMP2
scaffold_36	839542	852517	MSTRG.15062.4	LAMP2
scaffold_36	22821221	22847240	MSTRG.15179.1	LBR
scaffold_36	23354986	23358374	LFTY1_g15859.t1	LFTY1
scaffold_36	863124	973941	LGR6_g15728.t1	LGR6
scaffold_36	4560626	4571856	LHX9_g15767.t1	LHX9
scaffold_36	23612524	23694836	LIN9_g15866.t1	LIN9
scaffold_36	23611408	23686310	MSTRG.15196.1	LIN9
scaffold_36	180457	206567	LIPA4_g15713.t1	PPFIA4
scaffold_36	206568	213184	LIPA4_g15714.t1	PPFIA4
scaffold_36	1146913	1178201	LMOD1_g15735.t1	LMOD1
scaffold_36	23499080	23503311	MSTRG.15190.1	LOC102149162
scaffold_36	30956932	30957244	MSTRG.15254.1	LOC102149162
scaffold_36	17446766	17456995	LYPL1_g15804.t1	LYPL1
scaffold_36	17446762	17485826	MSTRG.15135.1	LYPLAL1
scaffold_36	18966614	18971846	MARC1_g15816.t1	MTARC1
scaffold_36	18980390	18997844	MSTRG.15150.1	MTARC1
scaffold_36	18923479	18953667	MARC2_g15815.t1	MTARC2
scaffold_36	18923479	18960994	MSTRG.15147.1	MTARC2
scaffold_36	18739601	18861860	MARK1_g15813.t1	MARK1
scaffold_36	18739156	18861860	MSTRG.15148.1	MARK1
scaffold_36	20843073	20847700	MSTRG.15163.1	MARS2
scaffold_36	17471682	17485396	MB211_g15805.t1	MB211
scaffold_36	20571367	20626706	MSTRG.15156.1	MIA3
scaffold_36	20584652	20626706	MSTRG.15156.3	MIA3
scaffold_36	20603515	20626706	MSTRG.15156.4	MIA3
scaffold_36	20603515	20626706	MSTRG.15156.5	MIA3
scaffold_36	20603567	20626706	MSTRG.15156.6	MIA3
scaffold_36	24297439	24604289	MRCKA_g15872.t1	CDC42BPA
scaffold_36	362952	373532	MSS4_g15720.t1	MSS4
scaffold_36	94804	102113	MYBPH_g15709.t1	MYBPH
scaffold_36	617554	833171	MYPT2_g15726.t1	MYPT2
scaffold_36	1248295	1409571	NAV1_g15738.t1	NAV1
scaffold_36	1246977	1409572	MSTRG.15067.1	NAV1
scaffold_36	1248295	1480496	MSTRG.15067.2	NAV1
scaffold_36	302473	308523	NB5R1_g15717.t1	CYB5R1
scaffold_36	4220936	4368116	MSTRG.15087.1	NEK7
scaffold_36	4221024	4368116	MSTRG.15087.2	NEK7
scaffold_36	4223853	4308286	NEK7_g15764.t1	NEK7
scaffold_36	30267834	30271645	MSTRG.15228.1	NHSL1

scaffold_36	20630819	20678060	AIDA_g15827.t1	AIDA_g15827.t1
scaffold_36	30314611	30335446	CA100_g15902.t1	CA100_g15902.t1
scaffold_36	81624	81827	MSTRG.15046.1	MSTRG.15046.1
scaffold_36	131548	131805	MSTRG.15049.1	MSTRG.15049.1
scaffold_36	362952	373532	MSTRG.15055.1	MSTRG.15055.1
scaffold_36	415841	459781	MSTRG.15057.3	MSTRG.15057.3
scaffold_36	460059	460281	MSTRG.15058.1	MSTRG.15058.1
scaffold_36	610310	833171	MSTRG.15060.1	MSTRG.15060.1
scaffold_36	712105	744360	MSTRG.15060.3	MSTRG.15060.3
scaffold_36	803940	828507	MSTRG.15061.1	MSTRG.15061.1
scaffold_36	833137	852517	MSTRG.15062.1	MSTRG.15062.1
scaffold_36	1115396	1139644	MSTRG.15065.1	MSTRG.15065.1
scaffold_36	1133307	1139644	MSTRG.15065.3	MSTRG.15065.3
scaffold_36	1217670	1240131	MSTRG.15066.4	MSTRG.15066.4
scaffold_36	1445554	1445766	MSTRG.15068.1	MSTRG.15068.1
scaffold_36	2484871	2485159	MSTRG.15076.1	MSTRG.15076.1
scaffold_36	2493695	2493898	MSTRG.15077.1	MSTRG.15077.1
scaffold_36	2288835	2353277	MSTRG.15078.1	MSTRG.15078.1
scaffold_36	2679574	2767715	MSTRG.15079.7	MSTRG.15079.7
scaffold_36	2746784	2747237	MSTRG.15080.1	MSTRG.15080.1
scaffold_36	2769120	2769842	MSTRG.15081.1	MSTRG.15081.1
scaffold_36	2779477	2779687	MSTRG.15084.1	MSTRG.15084.1
scaffold_36	2790414	2790617	MSTRG.15085.1	MSTRG.15085.1
scaffold_36	4941771	4942204	MSTRG.15089.1	MSTRG.15089.1
scaffold_36	4947891	4953622	MSTRG.15090.1	MSTRG.15090.1
scaffold_36	4948369	4977211	MSTRG.15090.2	MSTRG.15090.2
scaffold_36	4974251	4974470	MSTRG.15091.1	MSTRG.15091.1
scaffold_36	4981963	4982163	MSTRG.15092.1	MSTRG.15092.1
scaffold_36	4679990	4939582	MSTRG.15093.1	MSTRG.15093.1
scaffold_36	4680008	4939582	MSTRG.15093.2	MSTRG.15093.2
scaffold_36	4685989	4686432	MSTRG.15094.1	MSTRG.15094.1
scaffold_36	5628774	5628997	MSTRG.15098.1	MSTRG.15098.1
scaffold_36	6275116	6275322	MSTRG.15100.1	MSTRG.15100.1
scaffold_36	8690054	8823036	MSTRG.15103.1	MSTRG.15103.1
scaffold_36	8855937	8863553	MSTRG.15105.2	MSTRG.15105.2
scaffold_36	8876067	8895429	MSTRG.15107.3	MSTRG.15107.3
scaffold_36	14975494	14975720	MSTRG.15111.1	MSTRG.15111.1
scaffold_36	15435260	15435461	MSTRG.15112.1	MSTRG.15112.1
scaffold_36	15175486	15175702	MSTRG.15115.1	MSTRG.15115.1
scaffold_36	15184041	15184259	MSTRG.15116.1	MSTRG.15116.1
scaffold_36	15239035	15239262	MSTRG.15117.1	MSTRG.15117.1
scaffold_36	15340020	15340288	MSTRG.15118.1	MSTRG.15118.1
scaffold_36	15378638	15378863	MSTRG.15119.1	MSTRG.15119.1
scaffold_36	15384347	15384566	MSTRG.15120.1	MSTRG.15120.1
scaffold_36	15405244	15405453	MSTRG.15121.1	MSTRG.15121.1

scaffold_36	15415213	15415413	MSTRG.15122.1	MSTRG.15122.1
scaffold_36	15417508	15417815	MSTRG.15123.1	MSTRG.15123.1
scaffold_36	15426110	15426324	MSTRG.15124.1	MSTRG.15124.1
scaffold_36	16726615	16727223	MSTRG.15126.1	MSTRG.15126.1
scaffold_36	17161878	17162108	MSTRG.15127.1	MSTRG.15127.1
scaffold_36	16731258	16731778	MSTRG.15129.1	MSTRG.15129.1
scaffold_36	16679939	16680146	MSTRG.15131.1	MSTRG.15131.1
scaffold_36	17487823	17488090	MSTRG.15132.1	MSTRG.15132.1
scaffold_36	17488634	17489124	MSTRG.15133.1	MSTRG.15133.1
scaffold_36	17490543	17490854	MSTRG.15134.1	MSTRG.15134.1
scaffold_36	17494094	17494307	MSTRG.15136.1	MSTRG.15136.1
scaffold_36	18288886	18289536	MSTRG.15139.1	MSTRG.15139.1
scaffold_36	18628605	18628813	MSTRG.15141.1	MSTRG.15141.1
scaffold_36	18876895	18877114	MSTRG.15142.1	MSTRG.15142.1
scaffold_36	18475701	18488156	MSTRG.15144.2	MSTRG.15144.2
scaffold_36	18498640	18506588	MSTRG.15144.3	MSTRG.15144.3
scaffold_36	18506541	18570462	MSTRG.15145.1	MSTRG.15145.1
scaffold_36	18506966	18568328	MSTRG.15145.2	MSTRG.15145.2
scaffold_36	19486288	19487088	MSTRG.15151.1	MSTRG.15151.1
scaffold_36	20519901	20520116	MSTRG.15154.1	MSTRG.15154.1
scaffold_36	20783326	20816310	MSTRG.15161.1	MSTRG.15161.1
scaffold_36	20848283	20859311	MSTRG.15164.1	MSTRG.15164.1
scaffold_36	21633007	21634909	MSTRG.15169.1	MSTRG.15169.1
scaffold_36	21796992	21810236	MSTRG.15170.1	MSTRG.15170.1
scaffold_36	21831413	21932797	MSTRG.15171.1	MSTRG.15171.1
scaffold_36	21965130	21966026	MSTRG.15173.1	MSTRG.15173.1
scaffold_36	22026895	22027631	MSTRG.15176.1	MSTRG.15176.1
scaffold_36	22386367	22386584	MSTRG.15178.1	MSTRG.15178.1
scaffold_36	22900378	23055490	MSTRG.15180.1	MSTRG.15180.1
scaffold_36	22900378	23055490	MSTRG.15180.2	MSTRG.15180.2
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scaffold_36	23407753	23408972	MSTRG.15186.1	MSTRG.15186.1
scaffold_36	23517472	23517716	MSTRG.15188.1	MSTRG.15188.1
scaffold_36	23503757	23503972	MSTRG.15189.1	MSTRG.15189.1
scaffold_36	23527020	23573777	MSTRG.15192.1	MSTRG.15192.1
scaffold_36	23558308	23571725	MSTRG.15194.1	MSTRG.15194.1
scaffold_36	23970591	23970814	MSTRG.15197.1	MSTRG.15197.1
scaffold_36	24195458	24195671	MSTRG.15200.1	MSTRG.15200.1
scaffold_36	24235255	24291536	MSTRG.15203.1	MSTRG.15203.1
scaffold_36	24342182	24350907	MSTRG.15204.3	MSTRG.15204.3
scaffold_36	25124099	25124361	MSTRG.15209.1	MSTRG.15209.1
scaffold_36	25485599	25828218	MSTRG.15210.2	MSTRG.15210.2
scaffold_36	25951840	25952093	MSTRG.15215.1	MSTRG.15215.1
scaffold_36	26943051	27009254	MSTRG.15219.3	MSTRG.15219.3
scaffold_36	27049017	27055749	MSTRG.15221.1	MSTRG.15221.1

scaffold_36	27054007	27055749	MSTRG.15221.2	MSTRG.15221.2
scaffold_36	26751480	26763934	MSTRG.15222.5	MSTRG.15222.5
scaffold_36	30020961	30021177	MSTRG.15226.1	MSTRG.15226.1
scaffold_36	30528576	30528871	MSTRG.15236.1	MSTRG.15236.1
scaffold_36	30283537	30283756	MSTRG.15237.1	MSTRG.15237.1
scaffold_36	30634353	30635370	MSTRG.15239.1	MSTRG.15239.1
scaffold_36	30822784	30823015	MSTRG.15240.1	MSTRG.15240.1
scaffold_36	30940908	30944532	MSTRG.15242.2	MSTRG.15242.2
scaffold_36	30922353	30922561	MSTRG.15243.1	MSTRG.15243.1
scaffold_36	30923452	30924277	MSTRG.15244.1	MSTRG.15244.1
scaffold_36	30930092	30934104	MSTRG.15245.1	MSTRG.15245.1
scaffold_36	30938168	30938595	MSTRG.15246.1	MSTRG.15246.1
scaffold_36	30711186	30729263	MSTRG.15247.1	MSTRG.15247.1
scaffold_36	30711200	30729263	MSTRG.15247.2	MSTRG.15247.2
scaffold_36	30729636	30738139	MSTRG.15248.1	MSTRG.15248.1
scaffold_36	30729914	30738139	MSTRG.15248.3	MSTRG.15248.3
scaffold_36	30952011	30956356	MSTRG.15250.1	MSTRG.15250.1
scaffold_36	30948188	30948409	MSTRG.15251.1	MSTRG.15251.1
scaffold_36	30958672	30959112	MSTRG.15252.1	MSTRG.15252.1
scaffold_36	30945472	30947704	MSTRG.15253.1	MSTRG.15253.1
scaffold_36	30951390	30951592	MSTRG.15257.1	MSTRG.15257.1
scaffold_36	30949105	30950058	MSTRG.15258.1	MSTRG.15258.1
scaffold_36	31050428	31052303	MSTRG.15259.1	MSTRG.15259.1
scaffold_36	31056299	31057699	MSTRG.15261.1	MSTRG.15261.1
scaffold_36	22026356	22046725	NCLX_g15846.t1	NCLX_g15846.t1
scaffold_36	2654231	2768930	MSTRG.15079.1	NR5A2
scaffold_36	2654231	2768930	MSTRG.15079.2	NR5A2
scaffold_36	2654277	2769229	MSTRG.15079.3	NR5A2
scaffold_36	2658043	2768930	MSTRG.15079.5	NR5A2
scaffold_36	2771063	2771978	MSTRG.15082.1	NR5A2
scaffold_36	2772213	2777458	MSTRG.15083.1	NR5A2
scaffold_36	2773590	2777458	MSTRG.15083.2	NR5A2
scaffold_36	2658043	2768153	NR5A2_g15759.t1	NR5A2
scaffold_36	21832676	21932797	NVL_g15843.t1	NVL
scaffold_36	27850153	27896963	OPN3_g15888.t1	OPN3
scaffold_36	317158	325571	PAQR1_g15718.t1	ADIPOR1
scaffold_36	23731404	23731793	MSTRG.15195.1	PARP1
scaffold_36	23732234	23734604	MSTRG.15198.2	PARP1
scaffold_36	23732171	23785600	PARP1_g15867.t1	PARP1
scaffold_36	10204882	10221712	MSTRG.15109.1	PEX3
scaffold_36	1538363	1538740	PHLA3_g15740.t1	PHLDA3
scaffold_36	1654863	1698471	PKP1_g15745.t1	PKP1
scaffold_36	24167334	24194069	MSTRG.15201.1	PSEN2
scaffold_36	24167347	24194069	MSTRG.15201.2	PSEN2
scaffold_36	1000004	1007577	PTN7_g15729.t2	PTN7

scaffold_36	1000004	1007577	PTN7_g15729.t3	PTN7
scaffold_36	178382	191382	MSTRG.15050.1	PTPRF
scaffold_36	180457	213184	MSTRG.15050.2	PTPRF
scaffold_36	192307	223112	MSTRG.15050.4	PTPRF
scaffold_36	30348426	30386891	PURA2_g15903.t1	PURA2
scaffold_36	30959558	30963226	MSTRG.15255.1	RALGDS
scaffold_36	18404179	18506588	RBGPR_g15812.t1	RAB3GAP2
scaffold_36	9315274	9318844	RGS1_g15792.t1	RGS1
scaffold_36	9651176	9672995	RGS18_g15793.t2	RGS18
scaffold_36	9104778	9107438	RGS2_g15789.t1	RGS2
scaffold_36	23555761	23556036	RL17_g15864.t1	RPL17
scaffold_36	1098416	1115179	MSTRG.15064.4	RNPEP
scaffold_36	1098416	1115179	MSTRG.15064.5	RNPEP
scaffold_36	1098419	1115179	MSTRG.15064.6	RNPEP
scaffold_36	1098419	1115179	MSTRG.15064.7	RNPEP
scaffold_36	1098435	1109333	MSTRG.15064.8	RNPEP
scaffold_36	8874511	8887068	RO60_g15787.t1	RO60
scaffold_36	16724240	16724689	MSTRG.15128.1	RRP15
scaffold_36	9151374	9151775	RS24_g15790.t1	RPS24
scaffold_36	24890356	24931734	SCPDL_g15874.t1	SCPDL
scaffold_36	29285648	29513453	SDCG8_g15897.t1	SDCCAG8
scaffold_36	23393693	23407423	SDE2_g15861.t1	SDE2
scaffold_36	20773259	20986181	MSTRG.15160.1	SDR42E1
scaffold_36	20773290	20985339	MSTRG.15160.2	SDR42E1
scaffold_36	22038944	22046725	SERA_g15847.t1	PHGDH
scaffold_36	1184266	1187037	SHSA4_g15736.t1	SHSA4
scaffold_36	25144288	25828218	SMYD3_g15877.t1	SMYD3
scaffold_36	30846270	30846497	MSTRG.15241.1	SPCS3
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scaffold_36	23154830	23164251	MSTRG.15183.1	SRP9
scaffold_36	18168676	18168945	STK31_g15806.t1	STK31
scaffold_36	21144867	21201932	SUSD4_g15834.t1	SUSD4
scaffold_36	18233962	18306017	SYEP_g15808.t1	SYEP
scaffold_36	18341785	18401124	SYIM_g15811.t1	IARS2
scaffold_36	382678	382959	TBA8_g15722.t1	TUBA8
scaffold_36	25112561	25129699	TFB2M_g15876.t1	TFB2M
scaffold_36	25112429	25123868	MSTRG.15208.1	TFB2M
scaffold_36	16741457	16823296	TGFB2_g15803.t2	TGFB2
scaffold_36	20571374	20626706	TGO1_g15826.t1	TGO1
scaffold_36	26366734	26372950	MSTRG.15217.1	THAP4
scaffold_36	30877580	30944532	THAP4_g15908.t1	THAP4
scaffold_36	30959867	30960531	THAP4_g15908.t2	THAP4
scaffold_36	1128079	1139644	TI17A_g15734.t1	TIMM17A
scaffold_36	21059048	21061624	TLR5_g15831.t1	TLR5
scaffold_36	226154	246139	TM183_g15715.t1	TMEM183A

scaffold_36	224274	246139	MSTRG.15051.1	TMEM183A
scaffold_36	224291	246139	MSTRG.15051.2	TMEM183A
scaffold_36	2654999	2768930	MSTRG.15079.4	TMEM269
scaffold_36	23334907	23335449	MSTRG.15184.1	TMEM63A
scaffold_36	23219664	23252737	MSTRG.15185.1	TMEM63A
scaffold_36	26415120	26415625	MSTRG.15218.1	TMEM63A
scaffold_36	1802989	1821756	MSTRG.15070.1	TMEM9
scaffold_36	1803147	1821756	MSTRG.15070.2	TMEM9
scaffold_36	1803273	1821756	TMEM9_g15747.t1	TMEM9
scaffold_36	21588683	21627581	MSTRG.15168.1	TP53BP2
scaffold_36	21588739	21681259	MSTRG.15168.2	TP53BP2
scaffold_36	8867632	8895429	MSTRG.15107.1	TROVE2
scaffold_36	2592158	2592397	TTLL5_g15758.t1	TTLL5
scaffold_36	848688	852517	UBE2T_g15727.t1	UBE2T
scaffold_36	8895486	8934556	UCHL5_g15788.t1	UCHL5
scaffold_36	8895204	8934556	MSTRG.15108.1	UCHL5
scaffold_36	8895432	8934556	MSTRG.15108.2	UCHL5
scaffold_36	21987856	22026136	WDR26_g15845.t1	WDR26
scaffold_36	21980316	22026136	MSTRG.15174.1	WDR26
scaffold_36	27910248	28043125	WDR64_g15890.t2	WDR64
scaffold_36	5200305	5244920	ZBT41_g15772.t1	ZBT41
scaffold_36	30023141	30031478	MSTRG.15227.1	ZBTB18
scaffold_36	30023208	30031478	MSTRG.15227.2	ZBTB18
scaffold_36	5199293	5200180	ARHGH_g15771.t1	ZBTB41
scaffold_36	5199293	5248556	MSTRG.15095.1	ZBTB41
scaffold_36	29553105	29553359	ZC3HF_g15899.t1	ZC3H15
scaffold_36	2451367	2453979	ZN281_g15757.t1	ZNF281
scaffold_36	26919064	26919438	ZN337_g15883.t1	ZNF337
scaffold_36	30963035	30971451	ZN596_g15909.t1	ZNF596
scaffold_36	2454332	2455394	MSTRG.15074.1	ZNF281
scaffold_36	30516732	30517020	MSTRG.15235.1	ZNF691
scaffold_36	18184263	18196372	ZNT10_g15807.t1	SLC30A10
scaffold_37	8824706	8836613	5HT2B_g16027.t1	HTR2B
scaffold_37	7020791	7056517	A16L1_g15998.t2	ATG16L1
scaffold_37	19265167	19272455	AAKG3_g16105.t1	PRKAG3
scaffold_37	22457872	22622326	ABCAC_g16145.t1	ABCA12
scaffold_37	18930220	18937483	ABCB6_g16093.t1	ABCB6
scaffold_37	18929819	18937483	MSTRG.15426.1	ABCB6
scaffold_37	18936499	18940061	MSTRG.15427.1	ABCB6
scaffold_37	18936510	18940061	MSTRG.15427.2	ABCB6
scaffold_37	7660389	7667395	ACHD_g16008.t1	CHRND
scaffold_37	7649822	7650823	ACHG_g16006.t1	CHRNG
scaffold_37	7651407	7654994	ACHG_g16007.t1	CHRNG
scaffold_37	4311069	4312157	ACKR3_g15975.t2	ACKR3
scaffold_37	15709794	15740512	ACSL3_g16064.t1	ACSL3

scaffold_37	15705254	15775557	MSTRG.15390.1	ACSL3
scaffold_37	4712413	5029310	MSTRG.15311.4	AGAP1
scaffold_37	11740983	11820252	AGFG1_g16049.t1	AGFG1
scaffold_37	11737442	11820252	MSTRG.15357.1	AGFG1
scaffold_37	11737442	11820252	MSTRG.15357.2	AGFG1
scaffold_37	11737442	11820252	MSTRG.15357.3	AGFG1
scaffold_37	11739813	11820252	MSTRG.15357.4	AGFG1
scaffold_37	8189399	8190246	ANFC_g16015.t1	NPPC
scaffold_37	7824	8024	MSTRG.15263.1	ANKAR
scaffold_37	938160	991039	ANKY1_g15939.t1	ANKMY1
scaffold_37	18913833	18920128	ANKZ1_g16091.t1	ANKZF1
scaffold_37	18913549	18920128	MSTRG.15424.1	ANKZF1
scaffold_37	389988	421855	ANO7_g15924.t1	ANO7
scaffold_37	8540575	8540794	MSTRG.15334.1	ARHGAP44
scaffold_37	6066107	6066685	ARL4C_g15982.t1	ARL4C
scaffold_37	8609183	8760081	MSTRG.15337.1	ARMC9
scaffold_37	19747885	19777521	MSTRG.15446.1	ARPC2
scaffold_37	19747904	19777521	MSTRG.15446.2	ARPC2
scaffold_37	19777152	19778482	MSTRG.15447.1	ARPC2
scaffold_37	2198687	2198906	MSTRG.15292.1	ARPC4
scaffold_37	4607203	4655754	ASB18_g15977.t2	ASB18
scaffold_37	18653528	18674562	ASIC4_g16080.t1	ASIC4
scaffold_37	7019363	7056517	MSTRG.15317.1	ATG16L1
scaffold_37	7019363	7056517	MSTRG.15317.2	ATG16L1
scaffold_37	7019386	7056517	MSTRG.15317.3	ATG16L1
scaffold_37	7019394	7056517	MSTRG.15317.4	ATG16L1
scaffold_37	36135	64784	ATG4B_g15915.t1	ATG4B
scaffold_37	34508	64784	MSTRG.15265.1	ATG4B
scaffold_37	34523	57475	MSTRG.15265.2	ATG4B
scaffold_37	18921965	18929769	ATG9A_g16092.t1	ATG9A
scaffold_37	18920370	18929769	MSTRG.15425.1	ATG9A
scaffold_37	18920625	18929769	MSTRG.15425.2	ATG9A
scaffold_37	22324072	22326919	MSTRG.15457.1	ATIC
scaffold_37	19714161	19730562	MSTRG.15448.2	ATP13A4
scaffold_37	18561111	18574018	B3A3_g16073.t1	SLC4A3
scaffold_37	8578814	8580118	B3GN7_g16022.t1	B3GNT7
scaffold_37	8578814	8582036	B3GN7_g16023.t1	B3GNT7
scaffold_37	15942814	16015715	MSTRG.15397.1	B3GNT5
scaffold_37	15942831	15979017	MSTRG.15397.2	B3GNT5
scaffold_37	15942842	15979017	MSTRG.15397.4	B3GNT5
scaffold_37	8577664	8577900	MSTRG.15335.1	B3GNT7
scaffold_37	22736104	22818096	BARD1_g16146.t1	BARD1
scaffold_37	19435167	19437614	BCS1_g16111.t1	BCS1L
scaffold_37	118602	129448	BOK_g15919.t1	BOK
scaffold_37	9081537	9170982	MSTRG.15343.1	CAB39

scaffold_37	24708493	24722929	MSTRG.15462.1	CD84
scaffold_37	19088140	19120261	CFA65_g16100.t1	CFAP65
scaffold_37	7647996	7649842	MSTRG.15321.1	CHRNG
scaffold_37	18647955	18653523	CHSS2_g16079.t1	CHPF
scaffold_37	18964829	18969394	CNPD1_g16096.t1	CNPPD1
scaffold_37	18963318	18969394	MSTRG.15421.1	CNPPD1
scaffold_37	18963441	18969394	MSTRG.15421.2	CNPPD1
scaffold_37	18963441	18969394	MSTRG.15421.3	CNPPD1
scaffold_37	11952809	12054794	CO4A3_g16051.t1	COL4A3
scaffold_37	12104063	12212462	CO4A4_g16052.t1	COL4A4
scaffold_37	3551070	3697087	CO6A3_g15971.t1	COL6A3
scaffold_37	27707855	27714598	MSTRG.15480.1	COL1A1
scaffold_37	11949896	12088544	MSTRG.15363.1	COL4A3
scaffold_37	11949911	12088544	MSTRG.15363.2	COL4A3
scaffold_37	11949911	11992457	MSTRG.15363.3	COL4A3
scaffold_37	11949912	12088544	MSTRG.15363.4	COL4A3
scaffold_37	11949912	12088544	MSTRG.15363.5	COL4A3
scaffold_37	12029868	12054718	MSTRG.15364.1	COL4A3
scaffold_37	8243085	8269040	MSTRG.15329.1	COPS7B
scaffold_37	8243098	8264538	MSTRG.15329.2	COPS7B
scaffold_37	8259036	8264538	MSTRG.15329.4	COPS7B
scaffold_37	3829428	3842428	MSTRG.15310.1	COPS8
scaffold_37	3832533	3841651	MSTRG.15310.3	COPS8
scaffold_37	19280109	19321070	CP27A_g16106.t1	CYP27A1
scaffold_37	26520940	26651033	CPSM_g16152.t1	CPS1
scaffold_37	8244983	8256956	CSN7B_g16016.t1	COPS7B
scaffold_37	3830327	3842428	CSN8_g15972.t1	COPS8
scaffold_37	19632479	19636736	CTDS1_g16116.t1	CTDSP1
scaffold_37	19630633	19636736	MSTRG.15439.1	CTDSP1
scaffold_37	19630633	19636736	MSTRG.15439.2	CTDSP1
scaffold_37	14355331	14453832	CUL3_g16056.t1	CUL3
scaffold_37	19811184	19812263	CXCR2_g16125.t1	CXCR2
scaffold_37	19836471	19851380	CXCR2_g16126.t1	CXCR2
scaffold_37	29686815	29710716	D2HDH_g16178.t1	D2HGDH
scaffold_37	29685321	29715302	MSTRG.15492.1	D2HGDH
scaffold_37	2669480	2669755	MSTRG.15296.1	DECR2
scaffold_37	6864538	6972624	DGKD_g15997.t1	DGKD
scaffold_37	6862487	6874557	MSTRG.15316.1	DGKD
scaffold_37	7810940	8101153	DI3L2_g16014.t1	DIS3L2
scaffold_37	7810260	8148045	MSTRG.15326.1	DIS3L2
scaffold_37	7810260	8148045	MSTRG.15326.2	DIS3L2
scaffold_37	7816030	8048502	MSTRG.15326.4	DIS3L2
scaffold_37	8084095	8101153	MSTRG.15326.5	DIS3L2
scaffold_37	18866042	18866400	MSTRG.15415.1	DNAJB2
scaffold_37	18866811	18873367	MSTRG.15418.1	DNAJB2

scaffold_37	18866921	18872877	DNJB2_g16086.t1	DNAJB2
scaffold_37	18779058	18796839	DNPEP_g16083.t1	DNPEP
scaffold_37	18786682	18796839	MSTRG.15416.2	DNPEP
scaffold_37	18787078	18796839	MSTRG.15416.3	DNPEP
scaffold_37	18787119	18796653	MSTRG.15416.4	DNPEP
scaffold_37	13946290	14208286	DOC10_g16055.t1	DOCK10
scaffold_37	7374974	7523050	MSTRG.15324.1	DTD2
scaffold_37	7534964	7574198	EFHD1_g16004.t1	EFHD1
scaffold_37	7620368	7647829	MSTRG.15320.1	EIF4E2
scaffold_37	16884122	17015908	EPHA4_g16072.t1	EPHA4
scaffold_37	25505113	25827981	ERBB4_g16151.t1	ERBB4
scaffold_37	25520938	25827981	MSTRG.15476.4	ERBB4
scaffold_37	24719047	24805020	MSTRG.15463.1	ERBB4
scaffold_37	25133174	25362627	MSTRG.15472.1	ERBB4
scaffold_37	2912202	2919717	ERFE_g15956.t1	ERFE
scaffold_37	2945403	2968744	ESPNL_g15958.t1	ESPNL
scaffold_37	2945403	2968744	ESPNL_g15958.t2	ESPNL
scaffold_37	18954593	18963257	MSTRG.15420.1	FAM134A
scaffold_37	166756	276496	MSTRG.15271.1	FARP2
scaffold_37	9687272	9772749	FBX36_g16040.t1	FBX36
scaffold_37	9771998	9901888	MSTRG.15352.1	FBXO36
scaffold_37	11832462	11856198	MSTRG.15361.2	FDXR
scaffold_37	22195631	22260941	FINC_g16143.t1	FINC
scaffold_37	14835987	14859256	GDN_g16058.t1	GDN
scaffold_37	7385659	7484541	GGYF2_g16003.t1	GGYF2
scaffold_37	7382607	7523050	MSTRG.15324.2	GIGYF2
scaffold_37	7382607	7523050	MSTRG.15324.3	GIGYF2
scaffold_37	7383921	7523050	MSTRG.15324.4	GIGYF2
scaffold_37	7386467	7395275	MSTRG.15324.7	GIGYF2
scaffold_37	18905421	18913832	GLB1L_g16090.t1	GLB1L
scaffold_37	18903974	18913832	MSTRG.15423.1	GLB1L
scaffold_37	18682406	18688535	GMPPA_g16081.t1	GMPPA
scaffold_37	18681735	18693973	MSTRG.15414.1	GMPPA
scaffold_37	18682183	18689549	MSTRG.15414.2	GMPPA
scaffold_37	19739295	19740287	GPBAR_g16123.t1	GPBAR1
scaffold_37	999267	1028590	GPC1_g15941.t1	GPC1
scaffold_37	866402	867319	GPR35_g15935.t1	GPR35
scaffold_37	19734122	19738908	MSTRG.15442.1	HAP1
scaffold_37	1848862	2187207	MSTRG.15294.1	HDAC4
scaffold_37	312816	387194	MSTRG.15273.1	HDLBP
scaffold_37	312869	387194	MSTRG.15273.2	HDLBP
scaffold_37	344509	387194	MSTRG.15273.3	HDLBP
scaffold_37	2853581	2855408	HES6_g15954.t1	HES6
scaffold_37	6596798	6611338	HJURP_g15986.t1	HJURP
scaffold_37	21138947	21164005	IBP2_g16131.t1	IBP2

scaffold_37	21112355	21128164	IBP5_g16130.t1	IGFBP5
scaffold_37	7633739	7647829	IF4E2_g16005.t1	EIF4E2
scaffold_37	19068870	19074944	IHH_g16099.t1	IHH
scaffold_37	19068260	19074944	MSTRG.15428.1	IHH
scaffold_37	19068927	19072414	MSTRG.15428.3	IHH
scaffold_37	24165390	24316996	IKZF2_g16150.t1	IKZF2
scaffold_37	24317497	24317963	MSTRG.15460.1	IKZF2
scaffold_37	2875236	2908974	ILKAP_g15955.t1	ILKAP
scaffold_37	2875151	2908974	MSTRG.15304.1	ILKAP
scaffold_37	2875157	2908974	MSTRG.15304.2	ILKAP
scaffold_37	731	10644	ING5_g15913.t1	ING5
scaffold_37	29717771	29723784	MSTRG.15493.1	ING5
scaffold_37	18617791	18620703	INHA_g16075.t1	INHA
scaffold_37	18617791	18621688	MSTRG.15408.1	INHA
scaffold_37	12369236	12372970	IRS1_g16054.t1	IRS1
scaffold_37	12368136	12437114	MSTRG.15368.1	ITGA5
scaffold_37	9033782	9046830	ITM2C_g16032.t1	ITM2C
scaffold_37	26961680	27070239	KAL1L_g16155.t1	KANSL1L
scaffold_37	26961617	27070239	KAL1L_g16155.t2	KANSL1L
scaffold_37	26996539	27070239	MSTRG.15486.8	KANSL1L
scaffold_37	15621417	15621955	KCNE4_g16063.t1	KCNE4
scaffold_37	15619435	15622558	MSTRG.15388.1	KCNE4
scaffold_37	26664148	26672916	MSTRG.15475.1	KCTD7
scaffold_37	18016	31233	KTHY_g15914.t1	DTYMK
scaffold_37	26715558	26748535	LANC1_g16153.t1	LANC1
scaffold_37	26713050	26748535	MSTRG.15478.1	LANCL1
scaffold_37	26713125	26748535	MSTRG.15478.2	LANCL1
scaffold_37	19691802	19730562	LFG3_g16120.t1	LFG3
scaffold_37	1688444	1688731	LOC000000040_g15947.t1	LOC000000040
scaffold_37	3232565	3304836	LRRF1_g15965.t1	LRRF1
scaffold_37	16023959	16024190	MSTRG.15393.1	LY6G6F
scaffold_37	14469400	14469607	MSTRG.15369.1	MAP3K13
scaffold_37	27711688	27712041	MDFIC_g16159.t1	MDFIC
scaffold_37	3441023	3493421	MELPH_g15970.t2	MLPH
scaffold_37	11911495	11945812	MSTRG.15362.3	MFF
scaffold_37	11911495	11945812	MSTRG.15362.1	MFF
scaffold_37	11911495	11945812	MSTRG.15362.2	MFF
scaffold_37	11911675	11945812	MSTRG.15362.4	MFF
scaffold_37	11911799	11941048	MSTRG.15362.5	MFF
scaffold_37	9654053	9676464	MOT14_g16039.t2	MOT14
scaffold_37	14873542	14874959	MSTRG.15381.2	MRPL44
scaffold_37	27321666	27400354	MTAP2_g16158.t1	MAP2
scaffold_37	501893	513237	MTEF4_g15927.t1	MTERF4
scaffold_37	1238419	1243770	MSTRG.15289.1	MYEOV2
scaffold_37	1438720	1439062	MSTRG.15290.1	MYLIP

scaffold_37	8525728	8535333	NUCL_g16021.t1	NCL
scaffold_37	8528877	8535333	MSTRG.15332.2	NCL
scaffold_37	1370752	1437629	NDUAA_g15946.t1	NDUFA10
scaffold_37	7321397	7361209	NGEF_g16001.t1	NGEF
scaffold_37	18980534	19054573	NHEJ1_g16098.t1	NHEJ1
scaffold_37	18977814	19064455	MSTRG.15433.1	NHEJ1
scaffold_37	125499	125798	MSTRG.15269.1	MSTRG.15269.1
scaffold_37	501337	501562	MSTRG.15276.1	MSTRG.15276.1
scaffold_37	529282	529536	MSTRG.15279.1	MSTRG.15279.1
scaffold_37	541353	541567	MSTRG.15280.1	MSTRG.15280.1
scaffold_37	897585	897797	MSTRG.15283.1	MSTRG.15283.1
scaffold_37	2414186	2414397	MSTRG.15293.1	MSTRG.15293.1
scaffold_37	2665373	2667272	MSTRG.15295.1	MSTRG.15295.1
scaffold_37	2609086	2609302	MSTRG.15297.1	MSTRG.15297.1
scaffold_37	2670049	2691378	MSTRG.15298.1	MSTRG.15298.1
scaffold_37	2670082	2691378	MSTRG.15298.2	MSTRG.15298.2
scaffold_37	2670082	2691378	MSTRG.15298.3	MSTRG.15298.3
scaffold_37	2859206	2865853	MSTRG.15302.1	MSTRG.15302.1
scaffold_37	2977144	3006314	MSTRG.15303.2	MSTRG.15303.2
scaffold_37	2880514	2882082	MSTRG.15305.1	MSTRG.15305.1
scaffold_37	3883305	3883532	MSTRG.15309.1	MSTRG.15309.1
scaffold_37	4701797	5262306	MSTRG.15311.1	MSTRG.15311.1
scaffold_37	4701797	5262306	MSTRG.15311.2	MSTRG.15311.2
scaffold_37	6596766	6611760	MSTRG.15314.1	MSTRG.15314.1
scaffold_37	6596782	6611760	MSTRG.15314.2	MSTRG.15314.2
scaffold_37	7036227	7036473	MSTRG.15318.1	MSTRG.15318.1
scaffold_37	7789192	7789406	MSTRG.15319.1	MSTRG.15319.1
scaffold_37	7493226	7500273	MSTRG.15325.1	MSTRG.15325.1
scaffold_37	12088909	12212462	MSTRG.15367.1	MSTRG.15367.1
scaffold_37	12088913	12212462	MSTRG.15367.2	MSTRG.15367.2
scaffold_37	14863002	14863349	MSTRG.15377.1	MSTRG.15377.1
scaffold_37	15684916	15685125	MSTRG.15387.1	MSTRG.15387.1
scaffold_37	16085390	16085608	MSTRG.15394.1	MSTRG.15394.1
scaffold_37	16099123	16099327	MSTRG.15395.1	MSTRG.15395.1
scaffold_37	16123765	16123979	MSTRG.15396.1	MSTRG.15396.1
scaffold_37	16928954	16929182	MSTRG.15400.1	MSTRG.15400.1
scaffold_37	16976808	16977016	MSTRG.15402.1	MSTRG.15402.1
scaffold_37	18950114	18953623	MSTRG.15419.1	MSTRG.15419.1
scaffold_37	24710900	24722929	MSTRG.15462.2	MSTRG.15462.2
scaffold_37	26189157	26189361	MSTRG.15474.1	MSTRG.15474.1
scaffold_37	25452553	25505707	MSTRG.15476.2	MSTRG.15476.2
scaffold_37	28352980	28354862	MSTRG.15485.1	MSTRG.15485.1
scaffold_37	26946128	27070239	MSTRG.15486.1	MSTRG.15486.1
scaffold_37	26946128	27070239	MSTRG.15486.2	MSTRG.15486.2
scaffold_37	26946128	27070239	MSTRG.15486.3	MSTRG.15486.3

scaffold_37	26946129	27070239	MSTRG.15486.4	MSTRG.15486.4
scaffold_37	1706740	1707000	PIHD1_g15948.t1	PIHD1_g15948.t1
scaffold_37	8538020	8538242	MSTRG.15330.1	NOTHING
scaffold_37	8538788	8539529	MSTRG.15331.1	NOTHING
scaffold_37	8539800	8540082	MSTRG.15336.1	NOTHING
scaffold_37	8872425	8872636	MSTRG.15339.1	NOTHING
scaffold_37	9489296	9531388	MSTRG.15345.3	NOTHING
scaffold_37	9928245	9928635	MSTRG.15348.1	NOTHING
scaffold_37	11224264	11224475	MSTRG.15349.1	NOTHING
scaffold_37	9756140	9756372	MSTRG.15351.1	NOTHING
scaffold_37	11685187	11685413	MSTRG.15354.1	NOTHING
scaffold_37	11696040	11715163	MSTRG.15355.1	NOTHING
scaffold_37	11597870	11618655	MSTRG.15356.1	NOTHING
scaffold_37	11820725	11820977	MSTRG.15358.1	NOTHING
scaffold_37	11822258	11822458	MSTRG.15359.1	NOTHING
scaffold_37	11826813	11827148	MSTRG.15360.1	NOTHING
scaffold_37	11827644	11856198	MSTRG.15361.1	NOTHING
scaffold_37	12059361	12067695	MSTRG.15365.1	NOTHING
scaffold_37	12367594	12367804	MSTRG.15366.1	NOTHING
scaffold_37	13001264	13001491	MSTRG.15370.1	NOTHING
scaffold_37	13234842	13235096	MSTRG.15374.1	NOTHING
scaffold_37	12216091	12216325	MSTRG.15375.1	NOTHING
scaffold_37	14861922	14862136	MSTRG.15376.1	NOTHING
scaffold_37	14780035	14854810	MSTRG.15378.1	NOTHING
scaffold_37	14791996	14792196	MSTRG.15379.1	NOTHING
scaffold_37	14935105	14935331	MSTRG.15382.1	NOTHING
scaffold_37	15038016	15038219	MSTRG.15384.1	NOTHING
scaffold_37	15267589	15267807	MSTRG.15385.1	NOTHING
scaffold_37	15610891	15611122	MSTRG.15386.1	NOTHING
scaffold_37	15703413	15703628	MSTRG.15389.1	NOTHING
scaffold_37	16019810	16020014	MSTRG.15391.1	NOTHING
scaffold_37	16901677	16901986	MSTRG.15399.1	NOTHING
scaffold_37	16984637	16984963	MSTRG.15403.1	NOTHING
scaffold_37	18616992	18617217	MSTRG.15405.1	NOTHING
scaffold_37	18615698	18616559	MSTRG.15406.1	NOTHING
scaffold_37	19350580	19396617	MSTRG.15434.1	NOTHING
scaffold_37	19376626	19396617	MSTRG.15434.3	NOTHING
scaffold_37	21128638	21132585	MSTRG.15451.1	NOTHING
scaffold_37	21248676	21248991	MSTRG.15453.1	NOTHING
scaffold_37	21531652	21607854	MSTRG.15456.2	NOTHING
scaffold_37	24853672	24853893	MSTRG.15461.1	NOTHING
scaffold_37	24805847	24841380	MSTRG.15464.1	NOTHING
scaffold_37	24854502	24948507	MSTRG.15465.1	NOTHING
scaffold_37	24948779	24992909	MSTRG.15466.1	NOTHING
scaffold_37	24997903	25024264	MSTRG.15467.1	NOTHING

scaffold_37	25024793	25046445	MSTRG.15468.1	NOTHING
scaffold_37	25056599	25058588	MSTRG.15469.1	NOTHING
scaffold_37	25379860	25380262	MSTRG.15470.1	NOTHING
scaffold_37	25381051	25381703	MSTRG.15471.1	NOTHING
scaffold_37	25342084	25342340	MSTRG.15473.1	NOTHING
scaffold_37	25452553	25505707	MSTRG.15476.1	NOTHING
scaffold_37	25694313	25777561	MSTRG.15476.5	NOTHING
scaffold_37	25463397	25463772	MSTRG.15477.1	NOTHING
scaffold_37	26946499	27068926	MSTRG.15486.5	NOTHING
scaffold_37	27054814	27070239	MSTRG.15486.9	NOTHING
scaffold_37	29725165	29725370	MSTRG.15490.1	NOTHING
scaffold_37	29623772	29635135	MSTRG.15491.1	NOTHING
scaffold_37	29426076	29427396	MSTRG.15494.1	NOTHING
scaffold_37	29731046	29731468	MSTRG.15496.1	NOTHING
scaffold_37	18621479	18630502	MSTRG.15409.1	OBSL
scaffold_37	18636825	18641393	MSTRG.15409.3	OBSL1
scaffold_37	18621771	18641102	OBSL1_g16076.t1	OBSL1
scaffold_37	18637445	18638900	MSTRG.15409.4	OBSL1
scaffold_37	14456312	14456538	MSTRG.15373.1	OMA1
scaffold_37	459746	497970	MSTRG.15275.1	PASK
scaffold_37	460518	497970	MSTRG.15275.2	PASK
scaffold_37	465139	497970	PASK_g15926.t1	PASK
scaffold_37	10317914	10551410	PCLI1_g16044.t1	PCLI1
scaffold_37	29623943	29635135	PDCD1_g16175.t1	PDCD1
scaffold_37	8269664	8315392	PDE6D_g16017.t1	PDE6D
scaffold_37	21642683	21669379	PECR_g16139.t1	PECR
scaffold_37	16226505	16227050	PHTF1_g16068.t1	PHTF1
scaffold_37	19458719	19472576	PLCD4_g16113.t1	PLCD4
scaffold_37	19672782	19691644	PNKD_g16119.t1	PNKD
scaffold_37	19731507	19733761	PNKD_g16121.t1	PNKD
scaffold_37	427929	459533	PP1R7_g15925.t1	PPP1R7
scaffold_37	7769197	7772165	PPBI_g16013.t1	PPBI
scaffold_37	427183	459533	MSTRG.15274.1	PPP1R7
scaffold_37	427856	456637	MSTRG.15274.2	PPP1R7
scaffold_37	19267797	19269653	MSTRG.15432.1	PRKAG3
scaffold_37	7693945	7694259	PSIP1_g16010.t1	PSIP1
scaffold_37	8880889	8888360	PSMD1_g16026.t2	PSMD1
scaffold_37	8779103	8871498	MSTRG.15341.1	PSMD1
scaffold_37	8330745	8334886	PTMA_g16018.t1	PTMA
scaffold_37	18846253	18863736	PTPRN_g16085.t1	PTPRN
scaffold_37	22281332	22307943	PUR9_g16144.t1	PUR9
scaffold_37	3112510	3160396	RAMP1_g15962.t1	RAMP1
scaffold_37	3175078	3193518	RBM44_g15963.t1	RBM44
scaffold_37	614202	614403	MSTRG.15282.1	RCN3
scaffold_37	18958886	18963257	RETR2_g16095.t1	RETR2

scaffold_37	12218257	12336675	MSTRG.15372.1	RHBDD1
scaffold_37	12219624	12314808	RHBL4_g16053.t1	RHBL4
scaffold_37	14867277	14874959	RM44_g16059.t1	RM44
scaffold_37	19427841	19430667	MSTRG.15436.2	RNF25
scaffold_37	19427839	19434578	RNF25_g16110.t1	RNF25
scaffold_37	937703	938604	DUS28_g15938.t1	RNPEPL1
scaffold_37	924178	934981	MSTRG.15286.1	RNPEPL1
scaffold_37	924178	934981	MSTRG.15286.2	RNPEPL1
scaffold_37	935164	938604	MSTRG.15287.1	RNPEPL1
scaffold_37	924178	934981	RNPL1_g15937.t1	RNPL1
scaffold_37	27072695	27087266	MSTRG.15487.2	RPE
scaffold_37	27072953	27087266	MSTRG.15487.3	RPE
scaffold_37	27068782	27087266	MSTRG.15487.1	RPE
scaffold_37	27075525	27087266	MSTRG.15487.5	RPE
scaffold_37	21276203	21278916	RL37P_g16132.t1	RPL37A
scaffold_37	19482471	19509872	MSTRG.15438.1	RQCD1
scaffold_37	29610258	29613820	RTP5_g16173.t1	RTP5
scaffold_37	18586529	18600758	S11IP_g16074.t1	S11IP
scaffold_37	11610548	11618655	S19A3_g16048.t1	SLC19A3
scaffold_37	18971139	18976703	S23A3_g16097.t1	S23A3
scaffold_37	16960852	16961081	MSTRG.15401.1	SAMD12
scaffold_37	2970856	3006314	SCLY_g15959.t1	SCLY
scaffold_37	278409	312757	MSTRG.15272.1	SEPT2
scaffold_37	282888	304848	SEPT2_g15922.t1	SEPT2
scaffold_37	14799552	14859256	MSTRG.15380.1	SERPINE2
scaffold_37	14799553	14859256	MSTRG.15380.2	SERPINE2
scaffold_37	3427551	3427859	SETX_g15969.t1	SETX
scaffold_37	16021102	16147269	SGPP2_g16067.t1	SGPP2
scaffold_37	5600587	5619478	SH3B4_g15980.t1	SH3B4
scaffold_37	5598804	5694610	MSTRG.15312.1	SH3BP4
scaffold_37	7086235	7140253	SHIP1_g15999.t1	INPP5D
scaffold_37	19640377	19645919	MSTRG.15444.1	SLC11A1
scaffold_37	19640614	19650035	MSTRG.15444.2	SLC11A1
scaffold_37	18557796	18574833	MSTRG.15404.2	SLC4A3
scaffold_37	18557789	18574534	MSTRG.15404.1	SLC4A3
scaffold_37	18562212	18569182	MSTRG.15404.4	SLC4A3
scaffold_37	21291595	21353472	SMAL1_g16134.t1	SMAL1
scaffold_37	21290801	21355227	MSTRG.15455.2	SMARCAL1
scaffold_37	21290526	21355227	MSTRG.15455.1	SMARCAL1
scaffold_37	513263	588608	SNED1_g15928.t1	SNED1
scaffold_37	7364083	7370782	SNORC_g16002.t1	SNORC
scaffold_37	7364083	7370893	SNORC_g16002.t2	SNORC
scaffold_37	9263435	9355197	SP100_g16033.t1	SP100
scaffold_37	9084999	9133826	SP100_g16033.t2	SP100
scaffold_37	9531334	9577641	SP110_g16036.t1	SP110

scaffold_37	9458063	9465852	MSTRG.15345.1	SP140
scaffold_37	9372880	9443609	SP14L_g16034.t1	SP140L
scaffold_37	9458170	9528312	SP14L_g16035.t1	SP140L
scaffold_37	18704286	18704512	MSTRG.15413.1	SPEG
scaffold_37	23910126	24044494	SPG16_g16149.t1	SPG16
scaffold_37	11229826	11401552	MSTRG.15353.1	SPHKAP
scaffold_37	11230079	11400288	SPKAP_g16045.t1	SPHKAP
scaffold_37	18585553	18600984	MSTRG.15407.2	STK11IP
scaffold_37	18585383	18600984	MSTRG.15407.1	STK11IP
scaffold_37	18900844	18903866	MSTRG.15422.3	STK16
scaffold_37	18900844	18903486	STK16_g16089.t1	STK16
scaffold_37	18900320	18903866	MSTRG.15422.1	STK16
scaffold_37	18900684	18903849	MSTRG.15422.2	STK16
scaffold_37	153873	166176	STK25_g15920.t1	STK25
scaffold_37	152994	166777	MSTRG.15270.1	STK25
scaffold_37	152994	166176	MSTRG.15270.2	STK25
scaffold_37	19403072	19427488	MSTRG.15435.1	STK36
scaffold_37	19403383	19427488	MSTRG.15435.2	STK36
scaffold_37	19404195	19427033	STK36_g16109.t1	STK36
scaffold_37	15942841	16008754	SYFB_g16066.t1	FARSB
scaffold_37	11894664	11907280	T4S20_g16050.t1	TM4SF20
scaffold_37	9628048	9628305	TBA1B_g16038.t1	TBA1B
scaffold_37	18879468	18884997	TBA1D_g16087.t1	TBA1D
scaffold_37	18895405	18899030	TBA4A_g16088.t1	TUBA4A
scaffold_37	8422428	8423609	TEX44_g16019.t1	TEX44
scaffold_37	68630	109300	MSTRG.15267.1	THAP4
scaffold_37	18641969	18646749	TM198_g16077.t1	TM198
scaffold_37	18641952	18644289	MSTRG.15410.1	TMEM198
scaffold_37	18644164	18653523	MSTRG.15411.1	TMEM198
scaffold_37	20018927	20088409	MSTRG.15449.3	TNS1
scaffold_37	19961503	20094828	TENS1_g16128.t1	TNS1
scaffold_37	2716331	2757263	MSTRG.15299.1	TRAF3IP1
scaffold_37	9925561	9925794	MSTRG.15347.1	TRIP12
scaffold_37	9773271	9901888	MSTRG.15352.2	TRIP12
scaffold_37	9773271	9901888	MSTRG.15352.3	TRIP12
scaffold_37	9773299	9901888	MSTRG.15352.4	TRIP12
scaffold_37	9773301	9901888	MSTRG.15352.5	TRIP12
scaffold_37	9773503	9901888	MSTRG.15352.6	TRIP12
scaffold_37	9813508	9925229	TRIPC_g16041.t1	TRIP12
scaffold_37	3021344	3077568	UBE2F_g15960.t1	UBE2F
scaffold_37	19519229	19596124	UBP37_g16114.t1	UBP37
scaffold_37	6784435	6855055	UBP40_g15996.t1	UBP40
scaffold_37	6679628	6691338	UD11_g15988.t1	UGT1A1
scaffold_37	6750805	6751701	UD110_g15992.t1	UGT1A10
scaffold_37	6761079	6761987	UD110_g15994.t1	UGT1A10

scaffold_37	6773376	6774131	UD110_g15995.t1	UGT1A10
scaffold_37	27087393	27093369	MSTRG.15488.1	UNC80
scaffold_37	19510342	19598698	MSTRG.15440.1	USP37
scaffold_37	19514875	19596124	MSTRG.15440.2	USP37
scaffold_37	6775975	6858577	MSTRG.15315.1	USP40
scaffold_37	6839970	6874011	MSTRG.15315.3	USP40
scaffold_37	350946	384845	VIGLN_g15923.t1	HDLBP
scaffold_37	19595969	19623868	MSTRG.15441.1	VIL1
scaffold_37	14886157	14931546	WDFY1_g16060.t1	WDFY1
scaffold_37	19209523	19220977	WN10A_g16103.t1	WNT10A
scaffold_37	19228024	19241275	WNT6_g16104.t1	WNT6
scaffold_37	18646771	18647402	XIRP2_g16078.t1	XIRP2
scaffold_37	21523422	21607854	XRCC5_g16137.t1	XRCC5
scaffold_37	18937505	18939887	ZFN2B_g16094.t1	ZFAND2B
scaffold_37	19441243	19458300	ZN142_g16112.t1	ZNF142
scaffold_37	19441195	19458300	ZN142_g16112.t2	ZNF142
scaffold_37	19439076	19458300	MSTRG.15437.1	ZNF142
scaffold_37	29429724	29431812	MSTRG.15497.1	ZNF804A
scaffold_38	9227173	9234868	ABRAL_g16234.t1	ABRACL
scaffold_38	18485639	18501493	MSTRG.15645.1	ACAT2
scaffold_38	18488494	18501493	MSTRG.15645.2	ACAT2
scaffold_38	5595635	5627063	ADAT2_g16219.t1	ADAT2
scaffold_38	5618228	5627063	MSTRG.15558.2	ADAT2
scaffold_38	5618762	5627063	MSTRG.15558.3	ADAT2
scaffold_38	2635277	2726527	ADGB_g16202.t1	ADGB
scaffold_38	2730906	2809121	ADGB_g16202.t2	ADGB
scaffold_38	26382666	26385216	MSTRG.15702.2	ADGRE1
scaffold_38	24816977	24925085	AFAD_g16327.t1	AFDN
scaffold_38	24784181	24925085	MSTRG.15691.1	AFDN
scaffold_38	24784189	24925085	MSTRG.15691.2	AFDN
scaffold_38	24784189	24925085	MSTRG.15691.3	AFDN
scaffold_38	24784192	24925085	MSTRG.15691.4	AFDN
scaffold_38	6389515	6533824	AGRG6_g16223.t1	ADGRG6
scaffold_38	5711693	5891728	AIG1_g16220.t1	AIG1
scaffold_38	11092870	11184237	AKA12_g16244.t1	AKAP12
scaffold_38	11162540	11184237	MSTRG.15577.2	AKAP12
scaffold_38	16217953	16287290	ARI1B_g16265.t1	ARID1B
scaffold_38	16227140	16287290	ARI1B_g16265.t2	ARID1B
scaffold_38	15873075	15874232	MSTRG.15602.1	ARID1B
scaffold_38	15873590	16287290	MSTRG.15602.3	ARID1B
scaffold_38	15874233	16287290	MSTRG.15602.4	ARID1B
scaffold_38	11271708	11285611	MSTRG.15585.1	ARMT1
scaffold_38	11271717	11285611	MSTRG.15585.2	ARMT1
scaffold_38	21388027	21388254	MSTRG.15676.1	ATG3
scaffold_38	1576899	1577111	MSTRG.15535.1	BTBD19

scaffold_38	26327190	26329369	MSTRG.15700.1	C6ORF120
scaffold_38	1965130	1974590	MSTRG.15536.5	CALM1
scaffold_38	11305891	11397768	CC170_g16246.t1	CCDC170
scaffold_38	9327582	9341761	CDK18_g16236.t1	CDK18
scaffold_38	24173970	24204431	CEP43_g16316.t1	CEP43
scaffold_38	26327801	26329369	CF120_g16339.t1	C6ORF120
scaffold_38	8956482	8957979	CITE2_g16229.t1	CITED2
scaffold_38	8955807	8957979	MSTRG.15571.1	CITED2
scaffold_38	14499505	14500164	CLD20_g16261.t1	CLDN20
scaffold_38	13783982	13873874	CNKR3_g16256.t1	CNKSR3
scaffold_38	13782601	13873874	MSTRG.15596.1	CNKSR3
scaffold_38	5555711	5595466	MSTRG.15557.1	CPEB3
scaffold_38	6599347	6599569	MSTRG.15567.1	CPPED1
scaffold_38	6040201	6113490	CTTB2_g16221.t1	CTTNBP2
scaffold_38	26837620	26845250	DLL1_g16349.t1	DLL1
scaffold_38	17519902	17526650	DYLT1_g16274.t1	DYNLT1
scaffold_38	26362826	26385750	DYLT2_g16342.t1	DYNLT2
scaffold_38	26385514	26412832	EMARD_g16343.t1	ERMARD
scaffold_38	11106952	11107155	MSTRG.15578.1	EMCN
scaffold_38	3627193	3711193	EPM2A_g16208.t1	EPM2A
scaffold_38	27031289	27031980	MSTRG.15714.1	ERC2
scaffold_38	26385909	26412832	MSTRG.15705.2	ERMARD
scaffold_38	26413701	26413982	MSTRG.15706.1	ERMARD
scaffold_38	11553581	11821332	ESR1_g16247.t1	ESR1
scaffold_38	11553027	11821332	MSTRG.15588.1	ESR1
scaffold_38	11553027	11799139	MSTRG.15588.2	ESR1
scaffold_38	11553209	11821332	MSTRG.15588.3	ESR1
scaffold_38	11553230	11810045	MSTRG.15588.4	ESR1
scaffold_38	26872595	26949757	F120B_g16350.t1	FAM120B
scaffold_38	26952027	26952376	MSTRG.15709.1	FAM120B
scaffold_38	26871136	26950337	MSTRG.15712.2	FAM120B
scaffold_38	26950895	26951193	MSTRG.15713.1	FAM120B
scaffold_38	24204907	24205273	MSTRG.15687.1	FGFR1OP
scaffold_38	18443534	18481920	FL2D_g16282.t1	WTAP
scaffold_38	17994993	18069317	FNDC1_g16280.t1	FNDC1
scaffold_38	5531789	5550653	FUCO2_g16217.t1	FUCO2
scaffold_38	5099049	5173814	MSTRG.15552.1	GBGT1
scaffold_38	14214043	14214246	MSTRG.15597.1	GGNBP1
scaffold_38	243335	262673	GINM1_g16190.t1	GINM1
scaffold_38	243038	262124	MSTRG.15508.1	GINM1
scaffold_38	243121	262673	MSTRG.15508.2	GINM1
scaffold_38	243289	262673	MSTRG.15508.3	GINM1
scaffold_38	17132506	17147042	MSTRG.15624.1	GTF2H5
scaffold_38	17132506	17147042	MSTRG.15624.2	GTF2H5
scaffold_38	9121798	9125433	HDC_g16232.t1	HDC

scaffold_38	25649054	25649347	HEAT6_g16334.t1	HEATR6
scaffold_38	18799639	18799911	HMGN4_g16291.t1	HMGN4
scaffold_38	18723418	18751798	C1QT9_g16289.t1	IGF2R
scaffold_38	18634582	18751798	MSTRG.15649.2	IGF2R
scaffold_38	18634577	18751798	MSTRG.15649.1	IGF2R
scaffold_38	25640044	25642943	MSTRG.15689.1	IL36G
scaffold_38	205724	245118	MSTRG.15507.1	KATNA1
scaffold_38	23713495	23902412	KS6A2_g16314.t1	RPS6KA2
scaffold_38	212357	241230	KTNA1_g16189.t1	KTNA1
scaffold_38	16371681	16372826	LDH6B_g16267.t1	LDHAL6B
scaffold_38	5551133	5551486	MSTRG.15562.1	LOC111769002
scaffold_38	190393	190824	LORF2_g16188.t1	LORF2
scaffold_38	22823748	22833422	LRC53_g16305.t3	LRRC53
scaffold_38	57352	61443	LRP11_g16183.t1	LRP11
scaffold_38	303244	303462	LRRC4_g16192.t1	LRRC4
scaffold_38	5229300	5242230	LTV1_g16214.t1	LTV1
scaffold_38	19110610	19219619	M3K4_g16298.t1	M3K4
scaffold_38	635417	635692	MSTRG.15516.1	MAGED2
scaffold_38	19109700	19219619	MSTRG.15656.2	MAP3K4
scaffold_38	19109700	19219619	MSTRG.15656.1	MAP3K4
scaffold_38	19110337	19219619	MSTRG.15656.3	MAP3K4
scaffold_38	383754	464871	MSTRG.15514.5	MAP3K7
scaffold_38	7420459	7420675	MSTRG.15570.1	MIEF2
scaffold_38	24819202	24820700	MSTRG.15691.6	MLL
scaffold_38	23674873	23679146	MSTRG.15680.1	MPC1
scaffold_38	23674894	23686773	MSTRG.15680.2	MPC1
scaffold_38	18512661	18518965	MSTRG.15644.1	MRPL18
scaffold_38	10770786	10982272	MSTRG.15581.1	MTHFD1L
scaffold_38	10770786	10933626	MSTRG.15581.2	MTHFD1L
scaffold_38	10771395	10782766	MSTRG.15581.4	MTHFD1L
scaffold_38	12608384	12620958	MSTRG.15592.1	MTRF1L
scaffold_38	12608640	12611161	MSTRG.15592.3	MTRF1L
scaffold_38	12325895	12354690	MYCT1_g16249.t1	MYCT1
scaffold_38	12355508	12355711	MSTRG.15589.1	MYCT1
scaffold_38	12326114	12354690	MYCT1_g16249.t2	MYCT1
scaffold_38	12325973	12354690	MYCT1_g16249.t3	MYCT1
scaffold_38	6721317	6734481	NMBR_g16225.t1	NMBR
scaffold_38	1962863	2018517	MSTRG.15536.4	MSTRG.15536.4
scaffold_38	5058648	5058855	MSTRG.15550.1	MSTRG.15550.1
scaffold_38	5988313	5988520	MSTRG.15563.1	MSTRG.15563.1
scaffold_38	7303307	7303527	MSTRG.15568.1	MSTRG.15568.1
scaffold_38	9108296	9150505	MSTRG.15573.2	MSTRG.15573.2
scaffold_38	9108315	9125433	MSTRG.15573.3	MSTRG.15573.3
scaffold_38	11465871	11466077	MSTRG.15582.1	MSTRG.15582.1
scaffold_38	13745162	13745384	MSTRG.15593.1	MSTRG.15593.1

scaffold_38	16673331	16673548	MSTRG.15604.1	MSTRG.15604.1
scaffold_38	14261419	14482630	MSTRG.15608.4	MSTRG.15608.4
scaffold_38	16835617	16835817	MSTRG.15627.1	MSTRG.15627.1
scaffold_38	16839116	16839343	MSTRG.15630.1	MSTRG.15630.1
scaffold_38	16843693	16843946	MSTRG.15631.1	MSTRG.15631.1
scaffold_38	20500693	20500917	MSTRG.15653.1	MSTRG.15653.1
scaffold_38	19567407	19567627	MSTRG.15667.1	MSTRG.15667.1
scaffold_38	20248983	20249190	MSTRG.15670.1	MSTRG.15670.1
scaffold_38	23077325	23077528	MSTRG.15678.1	MSTRG.15678.1
scaffold_38	24091858	24120926	MSTRG.15683.2	MSTRG.15683.2
scaffold_38	24091858	24103791	MSTRG.15683.3	MSTRG.15683.3
scaffold_38	1749661	1756199	NXPE2_g16199.t1	NXPE2_g16199.t1
scaffold_38	156372	156599	MSTRG.15502.1	NOTHING
scaffold_38	305677	306344	MSTRG.15505.1	NOTHING
scaffold_38	199349	205560	MSTRG.15506.1	NOTHING
scaffold_38	270877	304808	MSTRG.15509.1	NOTHING
scaffold_38	631733	632122	MSTRG.15512.1	NOTHING
scaffold_38	633277	633999	MSTRG.15513.1	NOTHING
scaffold_38	665300	665571	MSTRG.15515.1	NOTHING
scaffold_38	642773	664899	MSTRG.15517.1	NOTHING
scaffold_38	666527	981842	MSTRG.15518.1	NOTHING
scaffold_38	666535	704983	MSTRG.15518.2	NOTHING
scaffold_38	1347220	1347440	MSTRG.15519.1	NOTHING
scaffold_38	1410965	1411184	MSTRG.15521.1	NOTHING
scaffold_38	1385242	1391816	MSTRG.15522.1	NOTHING
scaffold_38	1417094	1417298	MSTRG.15525.1	NOTHING
scaffold_38	1344422	1344638	MSTRG.15526.1	NOTHING
scaffold_38	1320411	1320642	MSTRG.15527.1	NOTHING
scaffold_38	1419489	1419707	MSTRG.15528.1	NOTHING
scaffold_38	1424266	1438361	MSTRG.15529.1	NOTHING
scaffold_38	1438613	1536474	MSTRG.15530.1	NOTHING
scaffold_38	1536730	1537586	MSTRG.15531.1	NOTHING
scaffold_38	1538950	1554223	MSTRG.15532.1	NOTHING
scaffold_38	2630288	2630491	MSTRG.15533.1	NOTHING
scaffold_38	1558626	1590078	MSTRG.15534.1	NOTHING
scaffold_38	1603765	2018517	MSTRG.15536.1	NOTHING
scaffold_38	1962394	1974590	MSTRG.15536.2	NOTHING
scaffold_38	1962863	2019301	MSTRG.15536.3	NOTHING
scaffold_38	1992416	2017327	MSTRG.15536.6	NOTHING
scaffold_38	2017434	2018522	MSTRG.15536.7	NOTHING
scaffold_38	1805777	1872506	MSTRG.15538.1	NOTHING
scaffold_38	2749501	2749702	MSTRG.15540.1	NOTHING
scaffold_38	2841765	2841970	MSTRG.15543.1	NOTHING
scaffold_38	3580248	3580467	MSTRG.15544.1	NOTHING
scaffold_38	3553495	3575409	MSTRG.15545.1	NOTHING

scaffold_38	3891371	3891891	MSTRG.15547.1	NOTHING
scaffold_38	5620059	5620262	MSTRG.15559.1	NOTHING
scaffold_38	5778665	5891728	MSTRG.15560.2	NOTHING
scaffold_38	6003657	6003872	MSTRG.15564.1	NOTHING
scaffold_38	9108296	9150505	MSTRG.15573.1	NOTHING
scaffold_38	9322663	9322883	MSTRG.15574.1	NOTHING
scaffold_38	9436905	9439266	MSTRG.15575.1	NOTHING
scaffold_38	11110002	11110208	MSTRG.15579.1	NOTHING
scaffold_38	11134905	11135105	MSTRG.15580.1	NOTHING
scaffold_38	11246634	11271440	MSTRG.15584.4	NOTHING
scaffold_38	11821827	11822034	MSTRG.15587.1	NOTHING
scaffold_38	12604068	12604282	MSTRG.15590.1	NOTHING
scaffold_38	13782043	13782255	MSTRG.15594.1	NOTHING
scaffold_38	14217539	14217743	MSTRG.15598.1	NOTHING
scaffold_38	14173706	14195160	MSTRG.15599.3	NOTHING
scaffold_38	14245310	14245539	MSTRG.15600.1	NOTHING
scaffold_38	14237387	14237654	MSTRG.15601.1	NOTHING
scaffold_38	16377915	16398427	MSTRG.15605.5	NOTHING
scaffold_38	14428846	14482630	MSTRG.15608.10	NOTHING
scaffold_38	14255117	14482630	MSTRG.15608.2	NOTHING
scaffold_38	14261385	14482630	MSTRG.15608.3	NOTHING
scaffold_38	14294569	14321071	MSTRG.15608.5	NOTHING
scaffold_38	14294569	14389278	MSTRG.15608.6	NOTHING
scaffold_38	14340729	14482630	MSTRG.15608.7	NOTHING
scaffold_38	14280366	14294415	MSTRG.15609.1	NOTHING
scaffold_38	17319359	17325161	MSTRG.15612.5	NOTHING
scaffold_38	17243726	17258615	MSTRG.15613.1	NOTHING
scaffold_38	17306214	17318522	MSTRG.15614.1	NOTHING
scaffold_38	17154708	17154996	MSTRG.15615.1	NOTHING
scaffold_38	12106944	12279610	MSTRG.15616.5	NOTHING
scaffold_38	17405901	17410524	MSTRG.15620.1	NOTHING
scaffold_38	17150501	17150793	MSTRG.15621.1	NOTHING
scaffold_38	17426986	17438876	MSTRG.15622.1	NOTHING
scaffold_38	17418797	17426426	MSTRG.15625.1	NOTHING
scaffold_38	16837576	16837779	MSTRG.15629.1	NOTHING
scaffold_38	16854257	16854511	MSTRG.15632.1	NOTHING
scaffold_38	16868366	16868698	MSTRG.15633.1	NOTHING
scaffold_38	17714812	17715033	MSTRG.15638.1	NOTHING
scaffold_38	18447258	18454890	MSTRG.15643.1	NOTHING
scaffold_38	18447471	18454851	MSTRG.15643.2	NOTHING
scaffold_38	20318984	20319191	MSTRG.15651.1	NOTHING
scaffold_38	20597532	20597762	MSTRG.15654.1	NOTHING
scaffold_38	20622439	20622692	MSTRG.15655.1	NOTHING
scaffold_38	19244959	19245202	MSTRG.15659.1	NOTHING
scaffold_38	21193129	21193340	MSTRG.15660.1	NOTHING

scaffold_38	21201186	21201393	MSTRG.15661.1	NOTHING
scaffold_38	19471935	19472148	MSTRG.15666.1	NOTHING
scaffold_38	19583757	19583960	MSTRG.15668.1	NOTHING
scaffold_38	21373192	21373491	MSTRG.15671.1	NOTHING
scaffold_38	21372068	21372722	MSTRG.15672.1	NOTHING
scaffold_38	21230652	21230948	MSTRG.15673.1	NOTHING
scaffold_38	21375334	21378400	MSTRG.15674.1	NOTHING
scaffold_38	23679924	23686773	MSTRG.15680.4	NOTHING
scaffold_38	23650127	23650349	MSTRG.15681.1	NOTHING
scaffold_38	24077478	24082631	MSTRG.15682.1	NOTHING
scaffold_38	24102049	24102254	MSTRG.15684.1	NOTHING
scaffold_38	24205774	24206235	MSTRG.15688.1	NOTHING
scaffold_38	25645001	25645272	MSTRG.15690.1	NOTHING
scaffold_38	25733602	25734195	MSTRG.15692.1	NOTHING
scaffold_38	26228392	26228718	MSTRG.15693.1	NOTHING
scaffold_38	25655196	25691532	MSTRG.15696.1	NOTHING
scaffold_38	26242736	26243071	MSTRG.15698.1	NOTHING
scaffold_38	26375156	26375356	MSTRG.15703.1	NOTHING
scaffold_38	26375743	26375967	MSTRG.15704.1	NOTHING
scaffold_38	26952918	26953164	MSTRG.15711.1	NOTHING
scaffold_38	26859625	26950337	MSTRG.15712.1	NOTHING
scaffold_38	138462	151007	NUP43_g16185.t1	NUP43
scaffold_38	146902	147849	MSTRG.15500.1	NUP43
scaffold_38	151768	152713	MSTRG.15501.1	NUP43
scaffold_38	19233414	19233627	MSTRG.15658.1	OR52M1
scaffold_38	14248199	14261358	MSTRG.15608.1	PAAF1
scaffold_38	568691	578141	PAPP2_g16194.t1	PAPPA2
scaffold_38	89627	136175	MSTRG.15498.1	PCMT1
scaffold_38	27083520	27089634	PDCD2_g16353.t1	PDCD2
scaffold_38	22839467	23080016	PDE10_g16306.t1	PDE10A
scaffold_38	5555225	5555466	MSTRG.15556.1	PEX3
scaffold_38	17460940	17519021	MSTRG.15635.2	PEX3
scaffold_38	5555711	5595466	PEX3_g16218.t1	PEX3
scaffold_38	26332510	26348614	MSTRG.15701.2	PHF10
scaffold_38	91175	136175	PIMT_g16184.t1	PCMT1
scaffold_38	10631440	10754810	PKHG1_g16242.t1	PLEKHG1
scaffold_38	5166855	5173332	PLAL1_g16212.t1	PLAL1
scaffold_38	19230743	19265134	PLCD_g16299.t1	PLCD
scaffold_38	10535048	10766768	MSTRG.15576.1	PLEKHG1
scaffold_38	19030331	19034440	MSTRG.15648.1	PLG
scaffold_38	18520602	18537404	PNDC1_g16286.t1	PNDC1
scaffold_38	10156435	10242830	PP14C_g16239.t1	PPP1R14C
scaffold_38	329092	351952	PPIL4_g16191.t2	PPIL4
scaffold_38	19413607	19413830	MSTRG.15650.1	PRKN
scaffold_38	19601658	20070347	MSTRG.15669.1	PRKN

scaffold_38	20390281	20666533	PRKN_g16301.t1	PRKN
scaffold_38	23619751	23620581	PRR18_g16309.t2	PRR18
scaffold_38	27034017	27050840	PSB1_g16351.t1	PSB1
scaffold_38	27034017	27052120	MSTRG.15715.1	PSMB1
scaffold_38	21231239	21368145	QKI_g16303.t1	QKI
scaffold_38	2845211	2868029	MSTRG.15542.1	RAB32
scaffold_38	8246651	8429627	RBFA_g16226.t1	RBFA
scaffold_38	16836976	16837177	MSTRG.15628.1	REXO5
scaffold_38	12608562	12620958	RF1ML_g16252.t1	MTRF1L
scaffold_38	12629110	12686610	RGS17_g16253.t1	RGS17
scaffold_38	25696475	25701427	MSTRG.15694.1	RHOQ
scaffold_38	629241	629570	MSTRG.15511.1	RLN3
scaffold_38	18512735	18518965	RM18_g16285.t1	RM18
scaffold_38	11227176	11271581	MSTRG.15584.1	RMND1
scaffold_38	11227328	11271440	MSTRG.15584.2	RMND1
scaffold_38	24121291	24145499	MSTRG.15685.2	RNASET2
scaffold_38	24122871	24145499	MSTRG.15685.3	RNASET2
scaffold_38	17789908	17813602	RSPH3_g16278.t1	RSPH3
scaffold_38	1130078	1235752	SASH1_g16197.t1	SASH1
scaffold_38	1126918	1305679	MSTRG.15520.1	SASH1
scaffold_38	14049512	14132828	SCAF8_g16258.t1	SCAF8
scaffold_38	14049031	14195160	MSTRG.15599.1	SCAF8
scaffold_38	5028108	5028368	SF3B5_g16211.t1	SF3B5
scaffold_38	23630299	23647406	SFT2A_g16310.t1	SFT2D1
scaffold_38	23629825	23647406	MSTRG.15679.1	SFT2D1
scaffold_38	3401243	3493377	MSTRG.15546.1	SHPRH
scaffold_38	3401243	3493377	MSTRG.15546.2	SHPRH
scaffold_38	3401243	3493377	MSTRG.15546.3	SHPRH
scaffold_38	3410906	3493377	SHPRH_g16206.t1	SHPRH
scaffold_38	25294005	25475508	SMOC2_g16333.t1	SMOC2
scaffold_38	18423968	18432431	SODM_g16281.t1	SOD2
scaffold_38	17071202	17132715	SRAC1_g16271.t1	SERAC1
scaffold_38	21202958	21203170	MSTRG.15662.1	ST7L
scaffold_38	4940508	4941371	STX11_g16210.t1	STX11
scaffold_38	2098763	2265634	STXB5_g16200.t1	STXBP5
scaffold_38	2097301	2265634	MSTRG.15541.1	STXBP5
scaffold_38	11829101	12278836	MSTRG.15616.1	SYNE1
scaffold_38	11847783	11862335	MSTRG.15616.4	SYNE1
scaffold_38	11838319	11847785	MSTRG.15617.1	SYNE1
scaffold_38	11883406	11890512	MSTRG.15618.1	SYNE1
scaffold_38	11833820	12270952	SYNE1_g16248.t1	SYNE1
scaffold_38	16962671	17056944	SYNJ2_g16270.t1	SYNJ2
scaffold_38	383533	465404	MSTRG.15514.1	TAB2
scaffold_38	383533	465404	MSTRG.15514.4	TAB2
scaffold_38	383754	465404	MSTRG.15514.6	TAB2

scaffold_38	383533	443849	MSTRG.15514.2	TAB2
scaffold_38	383533	464871	MSTRG.15514.3	TAB2
scaffold_38	385630	420245	TAB2_g16193.t1	TAB2
scaffold_38	17842059	17856359	TAGAP_g16279.t1	TAGAP
scaffold_38	27052359	27077369	MSTRG.15716.1	TBP
scaffold_38	27052359	27077369	MSTRG.15716.2	TBP
scaffold_38	27055578	27077369	TBP_g16352.t1	TBP
scaffold_38	18501497	18511642	TCPA_g16284.t1	TCPA
scaffold_38	14482181	14539021	MSTRG.15610.1	TFB1M
scaffold_38	14482589	14539021	MSTRG.15610.2	TFB1M
scaffold_38	14485465	14499494	MSTRG.15610.4	TFB1M
scaffold_38	18488611	18501493	THIC_g16283.t1	ACAT2
scaffold_38	14413396	14458979	MSTRG.15608.9	TIAM2
scaffold_38	14374076	14482630	TIAM2_g16259.t1	TIAM2
scaffold_38	16364838	16398427	TM242_g16266.t1	TM242
scaffold_38	17442143	17519021	MSTRG.15635.1	TMEM181
scaffold_38	16363318	16439461	MSTRG.15605.3	TMEM242
scaffold_38	16363284	16398427	MSTRG.15605.1	TMEM242
scaffold_38	16363284	16439461	MSTRG.15605.2	TMEM242
scaffold_38	20997020	21028021	MSTRG.15664.1	TMEM37
scaffold_38	25936038	25972724	TSP2_g16337.t1	THBS2
scaffold_38	17182667	17376328	MSTRG.15612.2	TULP4
scaffold_38	17240952	17376328	TULP4_g16272.t1	TULP4
scaffold_38	17182667	17376328	MSTRG.15612.1	TULP4
scaffold_38	17240559	17282573	MSTRG.15612.3	TULP4
scaffold_38	25786504	25821610	UBP33_g16336.t1	UBP33
scaffold_38	1357511	1357716	MSTRG.15523.1	UNC80
scaffold_38	672558	981842	UST_g16196.t1	UST
scaffold_38	4361603	4865006	MSTRG.15551.2	UTRN
scaffold_38	4363592	4858608	UTRN_g16209.t1	UTRN
scaffold_38	4361383	4865006	MSTRG.15551.1	UTRN
scaffold_38	12398329	12403156	VIP_g16250.t1	VIP
scaffold_38	12398329	12403156	VIP_g16250.t2	VIP
scaffold_38	6609936	6672336	VTA1_g16224.t1	VTA1
scaffold_38	26305015	26315541	WDR27_g16338.t1	WDR27
scaffold_38	26278918	26327000	MSTRG.15699.1	WDR27
scaffold_38	18454880	18481920	MSTRG.15642.2	WT1
scaffold_38	18455163	18481920	MSTRG.15642.3	WT1
scaffold_38	18455280	18481920	MSTRG.15642.4	WTAP
scaffold_38	11191764	11225530	MSTRG.15586.1	ZBTB2
scaffold_38	17614242	17664792	MSTRG.15637.1	ZC3H12D
scaffold_38	16440438	16717918	ZDH14_g16268.t1	ZDHHC14
scaffold_38	16439818	16717918	MSTRG.15603.1	ZDHHC14
scaffold_38	16440438	16717918	MSTRG.15603.2	ZDHHC14
scaffold_38	16718848	16719132	MSTRG.15634.1	ZDHHC14

scaffold_38	6113822	6135777	ZEP2_g16222.t1	ZEB2
scaffold_38	6113717	6135777	ZEP2_g16222.t2	ZEB2
scaffold_38	156919	199071	MSTRG.15503.1	ZNF146
scaffold_38	157416	199071	MSTRG.15503.3	ZNF146
scaffold_38	1364410	1364613	MSTRG.15524.1	ZNF286A
scaffold_38	24091858	24101722	MSTRG.15683.1	ZNF383
scaffold_38	26229612	26277812	MSTRG.15697.1	ZNF804A
scaffold_39	4858106	4861184	MSTRG.15786.1	ACTR1B
scaffold_39	4859087	4866840	ACTY_g16422.t1	ACTR1B
scaffold_39	6727945	7276277	AFF3_g16445.t1	AFF3
scaffold_39	6726011	6726239	MSTRG.15807.1	AFF3
scaffold_39	1444271	1548693	MSTRG.15750.1	ANAPC1
scaffold_39	1444271	1473661	MSTRG.15750.2	ANAPC1
scaffold_39	1444272	1548693	MSTRG.15750.3	ANAPC1
scaffold_39	1444272	1548693	MSTRG.15750.4	ANAPC1
scaffold_39	1444767	1446889	MSTRG.15750.5	ANAPC1
scaffold_39	4700778	4702256	MSTRG.15780.1	ANKRD23
scaffold_39	4707905	4716169	MSTRG.15783.1	ANKRD39
scaffold_39	4707976	4727191	MSTRG.15783.2	ANKRD39
scaffold_39	4717891	4727191	MSTRG.15783.4	ANKRD39
scaffold_39	1446576	1548693	APC1_g16379.t1	ANAPC1
scaffold_39	1446546	1548693	APC1_g16379.t2	ANAPC1
scaffold_39	4444523	4457298	ARI5A_g16409.t1	ARID5A
scaffold_39	4458932	4459156	MSTRG.15773.1	ARID5A
scaffold_39	12126602	12134200	ASHWN_g16474.t1	C2ORF49
scaffold_39	12784555	12793937	AUGN_g16479.t1	ECRG4
scaffold_39	2122260	2167188	MSTRG.15749.1	BCL2L11
scaffold_39	2126051	2165451	MSTRG.15749.2	BCL2L11
scaffold_39	13264738	13264989	BMS1_g16483.t1	BMS1
scaffold_39	12126587	12136994	MSTRG.15836.1	C2ORF49
scaffold_39	15393649	15496135	CC138_g16492.t1	CCDC138
scaffold_39	15139996	15140777	MSTRG.15857.1	CC2D2B
scaffold_39	5755669	5756001	CCD40_g16430.t1	CCDC40
scaffold_39	15393649	15457408	MSTRG.15869.5	CCDC138
scaffold_39	4236539	4236832	CE126_g16404.t1	CEP126
scaffold_39	7455482	7456197	MSTRG.15806.1	CHRNB3
scaffold_39	7540552	7571835	MSTRG.15813.1	CHST10
scaffold_39	4237072	4241887	CIAO1_g16405.t1	CIAO1
scaffold_39	693294	733354	CKP2L_g16369.t1	CKAP2L
scaffold_39	4295890	4334408	CND2_g16408.t1	NCAPH
scaffold_39	4680624	4698409	CNNM3_g16417.t1	CNNM3
scaffold_39	4639770	4675338	CNNM4_g16416.t1	CNNM4
scaffold_39	4639764	4677007	MSTRG.15782.1	CNNM4
scaffold_39	8239641	8253804	CNO11_g16452.t1	CNOT11
scaffold_39	8239452	8253804	CNO11_g16452.t2	CNOT11

scaffold_39	8246823	8283317	MSTRG.15825.1	CNOT11
scaffold_39	5768223	5776454	COA5_g16431.t1	COA5
scaffold_39	5776455	5791617	MSTRG.15793.1	COA5
scaffold_39	5776455	5791617	MSTRG.15793.2	COA5
scaffold_39	12275873	12352101	COIL_g16476.t1	COIL
scaffold_39	4850082	4851640	COX5B_g16421.t1	COX5B
scaffold_39	5979070	6030086	CRCDL_g16434.t1	CRACDL
scaffold_39	8331344	8374722	CREG2_g16455.t1	CREG2
scaffold_39	7461337	7461543	MSTRG.15804.1	CXCL11
scaffold_39	4152137	4153794	DUS2_g16401.t1	DUS2
scaffold_39	4151502	4153794	MSTRG.15761.1	DUSP2
scaffold_39	4151506	4153794	MSTRG.15761.2	DUSP2
scaffold_39	15527842	15560154	EDAR_g16493.t1	EDAR
scaffold_39	4495806	4497921	EIF3M_g16411.t1	EIF3M
scaffold_39	509486	514234	ELF1_g16367.t1	ELF1
scaffold_39	4698664	4698922	MSTRG.15781.1	ENDOU
scaffold_39	4732353	4820510	F178B_g16420.t1	FAM178B
scaffold_39	4026789	4033080	FAH2A_g16396.t1	FAH2A
scaffold_39	4024315	4033080	MSTRG.15760.1	FAHD2A
scaffold_39	9679826	9700669	MSTRG.15831.1	FAM25A
scaffold_39	1177122	1217616	FBLN7_g16376.t1	FBLN7
scaffold_39	4597935	4625276	MSTRG.15778.2	FER1L5
scaffold_39	4597935	4625276	MSTRG.15778.1	FER1L5
scaffold_39	12148934	12174535	FHL2_g16475.t1	FHL2
scaffold_39	12147707	12184842	MSTRG.15838.2	FHL2
scaffold_39	12145674	12185449	MSTRG.15838.1	FHL2
scaffold_39	4543998	4598062	FR1L5_g16414.t1	FR1L5
scaffold_39	15028346	15077602	GCC2_g16488.t1	GCC2
scaffold_39	15028144	15079047	MSTRG.15848.1	GCC2
scaffold_39	15030279	15079047	MSTRG.15848.3	GCC2
scaffold_39	15030279	15077602	MSTRG.15848.4	GCC2
scaffold_39	4033404	4043711	GPAT2_g16397.t1	GPAT2
scaffold_39	9317137	9349974	I18RA_g16462.t2	IL18RAP
scaffold_39	6501641	6584143	IF2P_g16443.t1	IF2P
scaffold_39	671297	680160	IL1A_g16368.t1	IL1A
scaffold_39	670494	680160	MSTRG.15724.1	IL1A
scaffold_39	593058	594997	MSTRG.15725.2	IL1B
scaffold_39	593286	623529	MSTRG.15728.1	IL1B
scaffold_39	596873	597928	MSTRG.15729.1	IL1B
scaffold_39	9038330	9113915	IL1R1_g16460.t1	IL1R1
scaffold_39	8885170	8937886	IL1R2_g16459.t1	IL1R2
scaffold_39	327306	331315	IL1RA_g16362.t1	IL1RN
scaffold_39	9290175	9305242	I18RA_g16462.t1	IL1RL1
scaffold_39	442500	467615	IL36A_g16366.t1	IL36A
scaffold_39	5698579	5761195	INP4A_g16429.t1	INP4A

scaffold_39	5624527	5761195	MSTRG.15788.1	INPP4A
scaffold_39	5745357	5761195	MSTRG.15788.6	INPP4A
scaffold_39	5716720	5727637	MSTRG.15788.5	INPP4A
scaffold_39	4288748	4291046	IPIL1_g16407.t1	ITPRIPL1
scaffold_39	4287367	4291910	MSTRG.15772.1	ITPRIP
scaffold_39	16549293	16558463	JAK3_g16499.t1	JAK3
scaffold_39	4493568	4537568	MSTRG.15776.1	KANSL3
scaffold_39	15226301	15234487	MSTRG.15864.1	KAZN
scaffold_39	15118385	15118626	MSTRG.15850.1	LGMN
scaffold_39	15253489	15283778	MSTRG.15849.2	LIMS1
scaffold_39	15284054	15285998	MSTRG.15867.1	LIMS1
scaffold_39	6291918	6293039	LIPT_g16438.t1	LIPT1
scaffold_39	4600642	4625276	LMA2L_g16415.t1	LMA2L
scaffold_39	7462493	7488464	LONF2_g16446.t1	LONF2
scaffold_39	7475553	7500520	MSTRG.15810.2	LONRF2
scaffold_39	5628575	5634836	MSTRG.15789.1	LY75
scaffold_39	6369563	6390400	LYG2_g16441.t2	LYG2
scaffold_39	8630160	8734176	M4K4_g16457.t1	MAP4K4
scaffold_39	8748293	8845131	M4K4_g16458.t1	MAP4K4
scaffold_39	7446768	7447015	MSTRG.15812.1	MAP3K3
scaffold_39	8630020	8845131	MSTRG.15827.1	MAP4K4
scaffold_39	8630020	8845131	MSTRG.15827.2	MAP4K4
scaffold_39	8630020	8845131	MSTRG.15827.3	MAP4K4
scaffold_39	8630029	8845131	MSTRG.15827.4	MAP4K4
scaffold_39	8793067	8845131	MSTRG.15827.7	MAP4K4
scaffold_39	8793067	8845131	MSTRG.15827.8	MAP4K4
scaffold_39	1317944	1422574	MERTK_g16378.t1	MERTK
scaffold_39	884088	884299	MSTRG.15738.1	METTL25
scaffold_39	5807384	5916475	MGT4A_g16433.t1	MGT4A
scaffold_39	6296911	6306846	MITD1_g16439.t1	MITD1
scaffold_39	6320024	6320245	MSTRG.15798.1	MRPL30
scaffold_39	3452099	3477433	MSTRG.15757.1	MRPS5
scaffold_39	11815232	11904738	MSTRG.15828.1	MRPS9
scaffold_39	2682040	2683104	MSTRG.15754.1	MTLN
scaffold_39	12601442	12641328	NCK2_g16477.t1	NCK2
scaffold_39	12503922	12641328	MSTRG.15840.1	NCK2
scaffold_39	12503959	12641328	MSTRG.15840.2	NCK2
scaffold_39	693294	733354	MSTRG.15731.2	MSTRG.15731.2
scaffold_39	792452	792661	MSTRG.15732.1	MSTRG.15732.1
scaffold_39	4599317	4625276	MSTRG.15778.3	MSTRG.15778.3
scaffold_39	4738532	4772573	MSTRG.15785.2	MSTRG.15785.2
scaffold_39	5624725	5761195	MSTRG.15788.3	MSTRG.15788.3
scaffold_39	6733589	6755323	MSTRG.15808.2	MSTRG.15808.2
scaffold_39	8189697	8190864	MSTRG.15820.1	MSTRG.15820.1
scaffold_39	11090056	11090273	MSTRG.15830.1	MSTRG.15830.1

scaffold_39	10684221	10684440	MSTRG.15833.1	MSTRG.15833.1
scaffold_39	9725833	9726041	MSTRG.15835.1	MSTRG.15835.1
scaffold_39	15304874	15467434	MSTRG.15869.3	MSTRG.15869.3
scaffold_39	6145310	6240372	TSG10_g16436.t1	TSG10_g16436.t1
scaffold_39	462514	462728	MSTRG.15720.1	NOTHING
scaffold_39	500191	500392	MSTRG.15721.1	NOTHING
scaffold_39	636200	636421	MSTRG.15723.1	NOTHING
scaffold_39	584655	604668	MSTRG.15726.1	NOTHING
scaffold_39	589125	592976	MSTRG.15727.1	NOTHING
scaffold_39	609443	620933	MSTRG.15728.2	NOTHING
scaffold_39	602402	607419	MSTRG.15730.1	NOTHING
scaffold_39	693281	722646	MSTRG.15731.1	NOTHING
scaffold_39	784446	784655	MSTRG.15733.1	NOTHING
scaffold_39	843191	843420	MSTRG.15735.1	NOTHING
scaffold_39	844084	844662	MSTRG.15736.1	NOTHING
scaffold_39	858987	869139	MSTRG.15737.1	NOTHING
scaffold_39	1046447	1046723	MSTRG.15740.1	NOTHING
scaffold_39	1047101	1112809	MSTRG.15742.1	NOTHING
scaffold_39	1364798	1365014	MSTRG.15748.1	NOTHING
scaffold_39	2590557	2590889	MSTRG.15752.1	NOTHING
scaffold_39	2593838	2594091	MSTRG.15753.1	NOTHING
scaffold_39	3506673	3522752	MSTRG.15759.1	NOTHING
scaffold_39	4181575	4181790	MSTRG.15762.1	NOTHING
scaffold_39	4217073	4217280	MSTRG.15763.1	NOTHING
scaffold_39	4221086	4221511	MSTRG.15765.1	NOTHING
scaffold_39	4222241	4222514	MSTRG.15766.1	NOTHING
scaffold_39	4242419	4242895	MSTRG.15767.1	NOTHING
scaffold_39	4295823	4331405	MSTRG.15775.1	NOTHING
scaffold_39	4524628	4537004	MSTRG.15776.6	NOTHING
scaffold_39	4699380	4699845	MSTRG.15779.1	NOTHING
scaffold_39	5624707	5761195	MSTRG.15788.2	NOTHING
scaffold_39	5780592	5784722	MSTRG.15794.1	NOTHING
scaffold_39	6286279	6318744	MSTRG.15795.1	NOTHING
scaffold_39	6286279	6318744	MSTRG.15795.2	NOTHING
scaffold_39	6307027	6319180	MSTRG.15795.3	NOTHING
scaffold_39	7438646	7438872	MSTRG.15801.1	NOTHING
scaffold_39	7441356	7441566	MSTRG.15802.1	NOTHING
scaffold_39	7457141	7457444	MSTRG.15805.1	NOTHING
scaffold_39	7454875	7455142	MSTRG.15811.1	NOTHING
scaffold_39	7442606	7442825	MSTRG.15814.1	NOTHING
scaffold_39	8040575	8040799	MSTRG.15818.1	NOTHING
scaffold_39	8074256	8093484	MSTRG.15822.1	NOTHING
scaffold_39	8255029	8283317	MSTRG.15825.2	NOTHING
scaffold_39	12803601	12803824	MSTRG.15842.1	NOTHING
scaffold_39	14936476	14936772	MSTRG.15847.1	NOTHING

scaffold_39	15038598	15079047	MSTRG.15848.5	NOTHING
scaffold_39	15119421	15119708	MSTRG.15851.1	NOTHING
scaffold_39	15120943	15121412	MSTRG.15852.1	NOTHING
scaffold_39	15123978	15124242	MSTRG.15853.1	NOTHING
scaffold_39	15126408	15126724	MSTRG.15854.1	NOTHING
scaffold_39	15137738	15137967	MSTRG.15855.1	NOTHING
scaffold_39	15138472	15139684	MSTRG.15856.1	NOTHING
scaffold_39	15142791	15142999	MSTRG.15858.1	NOTHING
scaffold_39	15145944	15146696	MSTRG.15859.1	NOTHING
scaffold_39	15147148	15147422	MSTRG.15860.1	NOTHING
scaffold_39	15149763	15221716	MSTRG.15861.1	NOTHING
scaffold_39	15168421	15169088	MSTRG.15862.1	NOTHING
scaffold_39	15224096	15224477	MSTRG.15863.1	NOTHING
scaffold_39	15242355	15242558	MSTRG.15865.1	NOTHING
scaffold_39	15250141	15250420	MSTRG.15866.1	NOTHING
scaffold_39	16536937	16537193	MSTRG.15870.1	NOTHING
scaffold_39	16161628	16179008	MSTRG.15871.1	NOTHING
scaffold_39	16559024	16559319	MSTRG.15873.1	NOTHING
scaffold_39	16545545	16547136	MSTRG.15874.1	NOTHING
scaffold_39	16428693	16428932	MSTRG.15878.1	NOTHING
scaffold_39	16523899	16524185	MSTRG.15879.1	NOTHING
scaffold_39	16480122	16480464	MSTRG.15880.1	NOTHING
scaffold_39	8025203	8034737	MSTRG.15816.1	NPAS2
scaffold_39	8036806	8051769	MSTRG.15817.1	NPAS2
scaffold_39	2689037	2753660	NPHP1_g16386.t1	NPHP1
scaffold_39	7677980	7687865	PDCL3_g16449.t1	PDCL3
scaffold_39	7677929	7687087	MSTRG.15815.1	PDCL3
scaffold_39	885479	912463	MSTRG.15739.1	POLR1B
scaffold_39	11891723	11892196	MSTRG.15829.1	PRKAR2B
scaffold_39	274962	289209	PSD4_g16361.t1	PSD4
scaffold_39	534457	594997	MSTRG.15725.1	QSER1
scaffold_39	15304874	15496135	MSTRG.15869.1	RANBP2
scaffold_39	15304874	15442662	MSTRG.15869.2	RANBP2
scaffold_39	15305028	15393614	RBP2_g16491.t1	RBP2
scaffold_39	6585377	6693918	REV1_g16444.t1	REV1
scaffold_39	6585068	6679366	MSTRG.15803.1	REV1
scaffold_39	6585119	6679366	MSTRG.15803.2	REV1
scaffold_39	6585376	6590377	MSTRG.15803.3	REV1
scaffold_39	16541477	16541759	MSTRG.15875.1	RIMS3
scaffold_39	8063137	8068652	RL31_g16450.t1	RPL31
scaffold_39	6312039	6318162	RM30_g16440.t1	RM30
scaffold_39	8259524	8283317	RN149_g16453.t1	RN149
scaffold_39	8063137	8069510	MSTRG.15819.1	RPL31
scaffold_39	3452141	3477433	RT05_g16390.t1	MRPS5
scaffold_39	3491443	3500449	RT05_g16390.t2	MRPS5

scaffold_39	11815232	11887287	RT09_g16471.t1	MRPS9
scaffold_39	801210	815939	S20A1_g16371.t1	S20A1
scaffold_39	14410943	14434646	SC5A7_g16484.t1	SLC5A7
scaffold_39	4718443	4725130	SEM4C_g16419.t1	SEMA4C
scaffold_39	16182560	16209026	SEP10_g16497.t1	SEP10
scaffold_39	16179090	16238540	MSTRG.15872.1	SEPT10
scaffold_39	13263010	13293501	SIAT2_g16482.t1	SIAT2
scaffold_39	799970	816594	MSTRG.15734.1	SLC20A1
scaffold_39	800065	816594	MSTRG.15734.2	SLC20A1
scaffold_39	1159132	1159340	MSTRG.15744.1	SNED1
scaffold_39	16242061	16243408	MSTRG.15877.1	SOWAHC
scaffold_39	14790094	14820362	ST1C1_g16485.t2	SULT1C2
scaffold_39	13257970	13331554	MSTRG.15844.1	ST6GAL2
scaffold_39	13257970	13331554	MSTRG.15844.2	ST6GAL2
scaffold_39	13258409	13331829	MSTRG.15844.3	ST6GAL2
scaffold_39	13258418	13332476	MSTRG.15844.4	ST6GAL2
scaffold_39	4189661	4211574	STAR7_g16402.t1	STAR7
scaffold_39	4187827	4211574	MSTRG.15764.1	STARD7
scaffold_39	16239290	16240870	SWAHC_g16498.t2	SOWAHC
scaffold_39	8070744	8188483	MSTRG.15821.2	TBC1D8
scaffold_39	8071093	8188483	MSTRG.15821.3	TBC1D8
scaffold_39	8070744	8188483	TBCD8_g16451.t1	TBCD8
scaffold_39	12653551	12653796	TEX43_g16478.t1	TEX43
scaffold_39	12057135	12093107	TGFA1_g16473.t1	TGFA1
scaffold_39	12054537	12093107	MSTRG.15832.2	TGFBRAP1
scaffold_39	12054539	12119655	MSTRG.15832.3	TGFBRAP1
scaffold_39	12054464	12120279	MSTRG.15832.1	TGFBRAP1
scaffold_39	4226366	4236212	TM127_g16403.t1	TM127
scaffold_39	9722030	9774717	TM182_g16466.t1	TM182
scaffold_39	1255893	1298113	TM87B_g16377.t1	TMEM87B
scaffold_39	4222869	4236746	MSTRG.15768.1	TMEM127
scaffold_39	4225449	4236746	MSTRG.15768.2	TMEM127
scaffold_39	4985720	5202641	MSTRG.15787.1	TMEM131
scaffold_39	1238156	1298113	MSTRG.15746.1	TMEM87B
scaffold_39	1287356	1298113	MSTRG.15746.4	TMEM87B
scaffold_39	924355	954172	MSTRG.15741.1	TTL
scaffold_39	6486727	6498103	TXND9_g16442.t1	TXNDC9
scaffold_39	6483740	6500423	MSTRG.15800.1	TXNDC9
scaffold_39	4244031	4271257	U520_g16406.t1	U520
scaffold_39	5777838	5791617	UNC50_g16432.t1	UNC50
scaffold_39	12809076	12905820	UXS1_g16480.t1	UXS1
scaffold_39	12808135	12905820	MSTRG.15843.1	UXS1
scaffold_39	15287748	15304726	XYLT2_g16490.t1	XYLT2
scaffold_39	1059639	1112809	ZC3H6_g16374.t1	ZC3H6
scaffold_39	1127058	1145562	ZC3H8_g16375.t1	ZC3H8

scaffold_39	1127009	1146704	MSTRG.15743.1	ZC3H8
scaffold_39	1161536	1161880	MSTRG.15745.1	ZC3H8
scaffold_39	3541424	3547991	ZN184_g16392.t1	ZNF184
scaffold_39	3515289	3522752	ZNF2_g16391.t1	ZNF2
scaffold_39	3487280	3500783	MSTRG.15758.1	ZNF514
scaffold_39	3491802	3492598	MSTRG.15758.3	ZNF514
scaffold_39	3496881	3500449	MSTRG.15758.4	ZNF514
scaffold_4	93178396	93481886	2ABB_g17228.t1	PPP2R2B
scaffold_4	9455040	9495963	ACO12_g16619.t1	ACOT12
scaffold_4	51360114	51416798	ACSL6_g16787.t1	ACSL6
scaffold_4	70063899	70140298	ADA19_g17038.t1	ADAM19
scaffold_4	71855643	71905289	ADA1B_g17051.t1	ADRA1B
scaffold_4	88504365	88647953	MSTRG.16572.1	ADAMTS2
scaffold_4	88513624	88717052	MSTRG.16572.2	ADAMTS2
scaffold_4	64493016	64495292	MSTRG.16405.1	ADCY10
scaffold_4	85851037	85851282	MSTRG.16515.1	ADGRE1
scaffold_4	8930014	8930683	MSTRG.15990.1	ADGRE2
scaffold_4	92168	92379	MSTRG.15881.1	ADGRE5
scaffold_4	94444	94652	MSTRG.15882.1	ADGRE5
scaffold_4	8931821	8932072	MSTRG.15992.1	ADGRE5
scaffold_4	226579	226799	MSTRG.15883.1	ADGRL1
scaffold_4	62675642	62676898	ADRB2_g16968.t2	ADRB2
scaffold_4	52230172	52286434	AFF4_g16809.t1	AFF4
scaffold_4	52224176	52317196	MSTRG.16228.1	AFF4
scaffold_4	52224176	52317196	MSTRG.16228.2	AFF4
scaffold_4	52225123	52317196	MSTRG.16228.3	AFF4
scaffold_4	5950135	5988168	AGGF1_g16583.t1	AGGF1
scaffold_4	5949804	6032698	MSTRG.15958.1	AGGF1
scaffold_4	4891883	4950506	AKD1B_g16575.t1	ANKDD1B
scaffold_4	46903946	46939151	AL7A1_g16763.t1	ALDH7A1
scaffold_4	27021430	27066328	AMD_g16686.t1	AMD1P2
scaffold_4	38018837	38096229	AMPQ_g16730.t1	LVRN
scaffold_4	8881320	8882864	AN34B_g16613.t1	ANKRD34B
scaffold_4	4892038	4950506	MSTRG.15951.2	ANKDD1B
scaffold_4	4892192	4950506	MSTRG.15951.3	ANKDD1B
scaffold_4	58743786	58793976	ANKH1_g16890.t1	ANKHD1
scaffold_4	58794049	58864910	ANKH1_g16890.t2	ANKHD1
scaffold_4	58743288	58870537	MSTRG.16328.1	ANKHD1
scaffold_4	58793977	58819087	MSTRG.16328.3	ANKHD1
scaffold_4	58794049	58871332	MSTRG.16328.4	ANKHD1
scaffold_4	58794049	58870537	MSTRG.16328.5	ANKHD1
scaffold_4	3142873	3152973	MSTRG.15934.1	ANKRA2
scaffold_4	3142873	3152973	MSTRG.15934.2	ANKRA2
scaffold_4	3142873	3152973	MSTRG.15934.3	ANKRA2
scaffold_4	3142876	3152973	MSTRG.15934.4	ANKRA2

scaffold_4	3143313	3152973	MSTRG.15934.5	ANKRA2
scaffold_4	4474538	4603556	ANR31_g16571.t1	ANKRD31
scaffold_4	3143313	3149826	ANRA2_g16559.t1	ANKRA2
scaffold_4	64683989	64749892	ANXA6_g17000.t1	ANXA6
scaffold_4	64683654	64733381	MSTRG.16411.1	ANXA6
scaffold_4	88096218	88096679	AP1S2_g17172.t1	AP1S2
scaffold_4	88096168	88096679	AP1S2_g17172.t2	AP1S2
scaffold_4	6782371	7036309	AP3B1_g16594.t1	AP3B1
scaffold_4	37878577	37940800	AP3S1_g16729.t1	AP3S1
scaffold_4	37878577	37973799	MSTRG.16145.1	AP3S1
scaffold_4	35360854	35437238	APC_g16712.t1	APC
scaffold_4	35305851	35443079	MSTRG.16120.1	APC
scaffold_4	35305860	35437238	MSTRG.16120.2	APC
scaffold_4	35305860	35442126	MSTRG.16120.3	APC
scaffold_4	35305860	35367384	MSTRG.16120.4	APC
scaffold_4	35343009	35367384	MSTRG.16120.5	APC
scaffold_4	59838728	59860253	ARAP3_g16942.t1	ARAP3
scaffold_4	352622	354593	ARF1_g16505.t1	ARF1
scaffold_4	337023	354593	MSTRG.15887.1	ARF1
scaffold_4	3195549	3478718	ARG28_g16561.t1	ARHGEF28
scaffold_4	60775039	61190458	MSTRG.16385.1	ARHGAP26
scaffold_4	86016723	86022917	ARL10_g17125.t1	ARL10
scaffold_4	86016723	86026495	MSTRG.16521.1	ARL10
scaffold_4	86016723	86026495	MSTRG.16521.2	ARL10
scaffold_4	86016760	86026495	MSTRG.16521.4	ARL10
scaffold_4	17521250	17533143	ARRD3_g16644.t1	ARRDC3
scaffold_4	17518485	17533143	MSTRG.16034.1	ARRDC3
scaffold_4	17518485	17533143	MSTRG.16034.2	ARRDC3
scaffold_4	17518573	17533143	MSTRG.16034.3	ARRDC3
scaffold_4	7474686	7529146	MSTRG.15970.1	ARSB
scaffold_4	7474686	7642816	MSTRG.15970.2	ARSB
scaffold_4	21150112	21200335	ARSK_g16655.t1	ARSK
scaffold_4	72417295	72519943	AT10B_g17061.t1	ATP10B
scaffold_4	87410676	87435179	AT2L2_g17163.t1	PHYKPL
scaffold_4	37867643	37878082	ATG12_g16728.t1	ATG12
scaffold_4	65237975	65247810	ATOX1_g17008.t1	ATOX1
scaffold_4	65235624	65247810	MSTRG.16419.1	ATOX1
scaffold_4	83219629	83259811	MSTRG.16507.1	ATP6V0E1
scaffold_4	49343826	49568852	ATS19_g16778.t1	ADAMTS19
scaffold_4	88574923	88717052	ATS2_g17180.t1	ADAMTS2
scaffold_4	58702644	58714840	B3A4_g16889.t2	SLC4A9
scaffold_4	87217467	87232071	MSTRG.16550.4	B4GALT7
scaffold_4	87217823	87227613	B4GT7_g17158.t1	B4GALT7
scaffold_4	1413626	1498853	BDP1_g16543.t1	BDP1
scaffold_4	1413327	1500475	MSTRG.15920.1	BDP1

scaffold_4	1413626	1500475	MSTRG.15920.3	BDP1
scaffold_4	54970065	55001952	BGH3_g16842.t1	TGFBI
scaffold_4	7761383	7781201	BHMT1_g16601.t1	BHMT
scaffold_4	1345041	1376055	BIRC1_g16540.t1	NAIP
scaffold_4	83339058	83359778	MSTRG.16509.5	BNIP3L
scaffold_4	83770917	83778467	BOD1_g17112.t1	BOD1
scaffold_4	83769118	83778467	MSTRG.16510.1	BOD1
scaffold_4	83769118	83778467	MSTRG.16510.2	BOD1
scaffold_4	83769118	83778467	MSTRG.16510.3	BOD1
scaffold_4	83769152	83778467	MSTRG.16510.4	BOD1
scaffold_4	83769179	83778467	MSTRG.16510.5	BOD1
scaffold_4	56821961	56841723	BRD8_g16856.t1	BRD8
scaffold_4	56782504	56810044	BRD8_g16856.t2	BRD8
scaffold_4	3101571	3109674	BTF3_g16558.t1	BTF3
scaffold_4	3101354	3109674	MSTRG.15933.1	BTF3
scaffold_4	90411543	90421422	BTNL9_g17200.t1	BTNL9
scaffold_4	90413674	90416247	MSTRG.16596.2	BTNL9
scaffold_4	60159191	60159404	MSTRG.16379.1	C10ORF143
scaffold_4	15337659	15337932	MSTRG.16022.1	MICOS13
scaffold_4	355898	365465	MSTRG.15889.3	C1ORF35
scaffold_4	72198047	72218988	C1QT2_g17057.t1	C1QTNF2
scaffold_4	53586053	53594337	C2AIL_g16820.t1	CDKN2AIPNL
scaffold_4	49948002	49948289	MSTRG.16196.1	PCARE
scaffold_4	53945023	53954372	MSTRG.16258.1	C5ORF24
scaffold_4	27350836	27368649	MSTRG.16083.1	MACIR
scaffold_4	89192730	89209273	MSTRG.16581.1	MRNIP
scaffold_4	89192730	89209273	MSTRG.16581.3	MRNIP
scaffold_4	89192730	89209273	MSTRG.16581.4	MRNIP
scaffold_4	47305393	47325120	MSTRG.16183.1	C5ORF63
scaffold_4	47305691	47315926	MSTRG.16183.2	C5ORF63
scaffold_4	37516142	37565334	MSTRG.16139.1	SHOC1
scaffold_4	37516142	37565334	MSTRG.16139.4	SHOC1
scaffold_4	673184	673564	H2B3A_g16519.t1	CACNA1A
scaffold_4	673037	673564	H2B3A_g16519.t2	CACNA1A
scaffold_4	393893	404197	CAF17_g16510.t1	IBA57
scaffold_4	34349986	34350417	MSTRG.16107.1	CAMK4
scaffold_4	34350919	34353237	MSTRG.16110.1	CAMK4
scaffold_4	34125443	34346737	MSTRG.16111.1	CAMK4
scaffold_4	34353564	34355741	MSTRG.16112.1	CAMK4
scaffold_4	34125619	34346737	WDR36_g16708.t2	CAMK4
scaffold_4	53857082	53865046	CAMLG_g16826.t1	CAMLG
scaffold_4	53856773	53865046	MSTRG.16255.1	CAMLG
scaffold_4	89025710	89103793	MSTRG.16576.2	CANX
scaffold_4	1604417	1605901	CART_g16545.t1	CARTPT
scaffold_4	22157484	22278351	MSTRG.16062.1	CAST

scaffold_4	22157715	22278351	MSTRG.16062.2	CAST
scaffold_4	22204819	22278351	MSTRG.16062.4	CAST
scaffold_4	17533802	17541289	CBPD_g16645.t2	CPD
scaffold_4	37346227	37391697	CC112_g16721.t1	CCDC112
scaffold_4	64757552	64787592	CCD69_g17001.t1	CCDC69
scaffold_4	64757171	64787592	MSTRG.16413.1	CCDC69
scaffold_4	74752614	74757083	CCNG1_g17068.t1	CCNG1
scaffold_4	74751271	74759164	MSTRG.16473.1	CCNG1
scaffold_4	14315043	14334001	CCNH_g16634.t1	CCNH
scaffold_4	14315432	14334001	MSTRG.16025.3	CCNH
scaffold_4	14327685	14334001	MSTRG.16025.4	CCNH
scaffold_4	52115521	52121281	CCNI2_g16802.t1	CCNI2
scaffold_4	72113393	72113890	MSTRG.16462.1	CCNJL
scaffold_4	72114857	72163012	MSTRG.16463.1	CCNJL
scaffold_4	72137636	72163012	MSTRG.16463.3	CCNJL
scaffold_4	58920593	58921815	CD14_g16895.t1	CD14
scaffold_4	64036556	64045064	MSTRG.16397.1	CD74
scaffold_4	56853299	56868153	CDC23_g16858.t1	CDC23
scaffold_4	56852285	56852698	MSTRG.16275.1	CDC23
scaffold_4	11291022	11291224	MSTRG.16010.1	CDC34
scaffold_4	50768564	50868754	MSTRG.16207.1	CDC42SE2
scaffold_4	50768564	50868754	MSTRG.16207.2	CDC42SE2
scaffold_4	50768564	50868754	MSTRG.16207.3	CDC42SE2
scaffold_4	50768565	50868754	MSTRG.16207.4	CDC42SE2
scaffold_4	50799496	50868754	MSTRG.16207.5	CDC42SE2
scaffold_4	53510248	53560293	CDKL3_g16818.t1	CDKL3
scaffold_4	37850976	37878082	MSTRG.16143.1	CDO1
scaffold_4	63819098	63834638	CDX1_g16985.t1	CDX1
scaffold_4	53949930	53950883	CE024_g16828.t1	C5ORF24
scaffold_4	44284276	44358511	CE120_g16756.t1	CEP120
scaffold_4	44281414	44358972	MSTRG.16170.1	CEP120
scaffold_4	44282710	44358972	MSTRG.16170.2	CEP120
scaffold_4	44284276	44358972	MSTRG.16170.3	CEP120
scaffold_4	44339840	44350930	MSTRG.16170.5	CEP120
scaffold_4	4715165	4818094	CERT_g16573.t1	CERT1
scaffold_4	16702542	16717500	CETN3_g16638.t1	CETN3
scaffold_4	23773359	23853134	CHD1_g16672.t1	CHD1
scaffold_4	23773359	23856282	MSTRG.16072.1	CHD1
scaffold_4	23774389	23856282	MSTRG.16072.3	CHD1
scaffold_4	23775746	23796460	MSTRG.16072.4	CHD1
scaffold_4	49706773	49712106	CHSS3_g16780.t1	CHSY3
scaffold_4	49706420	49944769	MSTRG.16197.1	CHSY3
scaffold_4	86036722	86055864	CLCB_g17128.t1	CLTB
scaffold_4	70276727	70334925	MSTRG.16449.1	CLINT1
scaffold_4	87768291	87792061	MSTRG.16565.1	CLK4

scaffold_4	87771767	87792061	MSTRG.16565.2	CLK4
scaffold_4	87771767	87792061	MSTRG.16565.3	CLK4
scaffold_4	87771767	87792061	MSTRG.16565.4	CLK4
scaffold_4	8226490	8286184	CMYA5_g16606.t1	CMYA5
scaffold_4	8286219	8317018	CMYA5_g16606.t2	CMYA5
scaffold_4	74140330	74141319	CNN3_g17066.t1	CNN3
scaffold_4	67888463	67896258	CNOT8_g17026.t1	CNOT8
scaffold_4	67882484	67896258	MSTRG.16431.1	CNOT8
scaffold_4	51797278	51855921	CO6A5_g16795.t1	COL6A5
scaffold_4	4702768	4818094	MSTRG.15949.1	CERT1
scaffold_4	38142740	38304576	COMDA_g16732.t1	COMMD10
scaffold_4	87440348	87760180	CONA1_g17164.t1	COL23A1
scaffold_4	19491905	19500699	COT1_g16646.t1	NR2F1
scaffold_4	13726863	13733495	MSTRG.16017.1	COX7C
scaffold_4	84015472	84073395	CPEB4_g17113.t1	CPEB4
scaffold_4	84014129	84077054	MSTRG.16511.1	CPEB4
scaffold_4	35583823	35982297	CRCM_g16716.t1	MCC
scaffold_4	49610069	49610285	MSTRG.16195.1	CREBL2
scaffold_4	83272739	83330064	MSTRG.16508.1	CREBRF
scaffold_4	83291343	83325285	CRERF_g17106.t1	CREBRF
scaffold_4	63724946	63754253	CSF1R_g16983.t1	CSF1R
scaffold_4	51467519	51469572	CSF2_g16789.t1	CSF2
scaffold_4	63258211	63305583	MSTRG.16389.4	CSNK1A1
scaffold_4	44442507	44555738	MSTRG.16172.1	CSNK1G3
scaffold_4	44442509	44555738	MSTRG.16172.2	CSNK1G3
scaffold_4	72197883	72218988	MSTRG.16464.1	C1QTNF2
scaffold_4	8882867	8892631	CXA3_g16614.t2	GJA3
scaffold_4	37657823	37658101	MSTRG.16141.1	RADX
scaffold_4	58061893	58064657	CXXC5_g16881.t1	CXXC5
scaffold_4	58030698	58065377	MSTRG.16320.1	CXXC5
scaffold_4	70022283	70023424	MSTRG.16442.1	CYFIP2
scaffold_4	70021777	70022032	MSTRG.16445.1	CYFIP2
scaffold_4	69891199	70021670	CYFP2_g17035.t1	CYFIP2
scaffold_4	58529372	58557793	CYTM1_g16886.t1	CYSTM1
scaffold_4	87054787	87063940	MSTRG.16545.1	DBN1
scaffold_4	35530856	35571496	DCP2_g16715.t1	DCP2
scaffold_4	35530739	35541251	MSTRG.16123.1	DCP2
scaffold_4	64294281	64327417	DCTN4_g16995.t1	DCTN4
scaffold_4	64292182	64327417	MSTRG.16403.1	DCTN4
scaffold_4	87108393	87113388	DDX41_g17154.t1	DDX41
scaffold_4	53868958	53942428	MSTRG.16259.1	DDX46
scaffold_4	53868958	53941558	MSTRG.16259.2	DDX46
scaffold_4	60059646	60068308	CRIS1_g16944.t1	DELE1
scaffold_4	40958778	41051424	DHB4_g16743.t1	HSD17B4
scaffold_4	87188493	87210521	MSTRG.16549.1	DHX34

scaffold_4	43842506	43986007	MSTRG.16167.1	DHX57
scaffold_4	59770280	59806030	DIAP1_g16938.t2	DIAPH1
scaffold_4	59696790	59806030	MSTRG.16371.1	DIAPH1
scaffold_4	59708560	59806030	MSTRG.16371.3	DIAPH1
scaffold_4	57869999	57891229	DJC18_g16877.t1	DNAJC18
scaffold_4	40685032	40816497	DMXL1_g16741.t1	DMXL1
scaffold_4	40684508	40816497	MSTRG.16156.1	DMXL1
scaffold_4	40684532	40816497	MSTRG.16156.2	DMXL1
scaffold_4	40684613	40724605	MSTRG.16156.3	DMXL1
scaffold_4	40765157	40816497	MSTRG.16156.5	DMXL1
scaffold_4	57867750	57868806	MSTRG.16315.1	DNAJC18
scaffold_4	57869181	57869573	MSTRG.16316.1	DNAJC18
scaffold_4	58955065	58977290	MSTRG.16333.1	DND1
scaffold_4	58955181	58977290	MSTRG.16333.2	DND1
scaffold_4	93843188	93899478	DPYL3_g17230.t1	DPYSL3
scaffold_4	93839112	93954239	MSTRG.16615.1	DPYSL3
scaffold_4	87055620	87070534	DREB_g17151.t1	DBN1
scaffold_4	672656	672916	DRGX_g16518.t1	DRGX
scaffold_4	40528096	40618315	DTWD2_g16739.t1	DTWD2
scaffold_4	40528079	40552647	MSTRG.16151.1	DTWD2
scaffold_4	83039582	83042217	DUS1_g17103.t1	DUS1L
scaffold_4	60207746	60208426	DYN1_g16949.t1	DNM1
scaffold_4	65005122	65005385	MSTRG.16417.1	DYNC1H1
scaffold_4	34937533	35144547	E41LA_g16711.t1	EPB41L4A
scaffold_4	85514533	85530603	ECM29_g17119.t1	ECPAS
scaffold_4	11578479	11948023	EDIL3_g16630.t1	EDIL3
scaffold_4	82539514	82544226	EFCB9_g17099.t1	EFCAB9
scaffold_4	30878268	31156088	EFNA5_g16698.t1	EFNA5
scaffold_4	31156872	31157607	MSTRG.16089.1	EFNA5
scaffold_4	57057691	57060028	EGR1_g16864.t1	EGR1
scaffold_4	4086174	4087956	ENC1_g16564.t1	ENC1
scaffold_4	4080537	4092195	MSTRG.15936.1	ENC1
scaffold_4	87750839	87751051	MSTRG.16563.1	EPB41L1
scaffold_4	87241147	87257370	MSTRG.16551.1	EPHX2
scaffold_4	70279084	70334925	EPN4_g17043.t1	CLINT1
scaffold_4	35796489	35796692	MSTRG.16127.1	EQTN
scaffold_4	22278357	22304990	ERAP1_g16665.t1	ERAP1
scaffold_4	22276943	22310686	MSTRG.16063.1	ERAP1
scaffold_4	57086435	57114540	ERF1_g16865.t1	ETF1
scaffold_4	83135428	83198001	ERGI1_g17104.t1	ERGIC1
scaffold_4	83204345	83211896	ERGI1_g17104.t2	ERGIC1
scaffold_4	57084234	57114918	MSTRG.16284.1	ETF1
scaffold_4	57865510	57866274	ETHE1_g16876.t1	ETHE1
scaffold_4	8829552	8869745	F151B_g16612.t1	F151B
scaffold_4	4238304	4275943	F169A_g16568.t1	F169A

scaffold_4	37648155	37648622	F170A_g16725.t1	FAM170A
scaffold_4	25177383	25212634	F174A_g16675.t1	FAM174A
scaffold_4	87118322	87149355	F193B_g17155.t1	FAM193B
scaffold_4	56620715	56690816	FA13B_g16854.t1	FAM13B
scaffold_4	26782081	26782371	FA5_g16683.t1	FA5
scaffold_4	69802105	69804667	FA71B_g17033.t1	FA71B
scaffold_4	2777991	2778205	MSTRG.15931.1	FAAH2
scaffold_4	86088400	86157682	FAF2_g17129.t1	FAF2
scaffold_4	86088366	86160654	MSTRG.16524.1	FAF2
scaffold_4	86088400	86160654	MSTRG.16524.2	FAF2
scaffold_4	67171987	67208141	MSTRG.16423.1	FAM114A2
scaffold_4	57464759	57466045	MSTRG.16294.1	FAM120C
scaffold_4	56617458	56704730	MSTRG.16272.5	FAM13B
scaffold_4	56617458	56704730	MSTRG.16272.6	FAM13B
scaffold_4	56617052	56704730	MSTRG.16272.1	FAM13B
scaffold_4	56617052	56704730	MSTRG.16272.2	FAM13B
scaffold_4	56617449	56704730	MSTRG.16272.3	FAM13B
scaffold_4	56617449	56704730	MSTRG.16272.4	FAM13B
scaffold_4	4234419	4296427	MSTRG.15945.2	FAM169A
scaffold_4	4234419	4296427	MSTRG.15945.1	FAM169A
scaffold_4	4234829	4275943	MSTRG.15945.3	FAM169A
scaffold_4	19524731	19528051	MSTRG.16040.1	FAM172A
scaffold_4	19664395	19939039	MSTRG.16040.3	FAM172A
scaffold_4	25176806	25243334	MSTRG.16074.1	FAM174A
scaffold_4	25177352	25178741	MSTRG.16074.2	FAM174A
scaffold_4	87115912	87149355	MSTRG.16547.3	FAM193B
scaffold_4	87115912	87149355	MSTRG.16547.1	FAM193B
scaffold_4	87115912	87149355	MSTRG.16547.2	FAM193B
scaffold_4	87115948	87149355	MSTRG.16547.4	FAM193B
scaffold_4	87115953	87149355	MSTRG.16547.5	FAM193B
scaffold_4	87115953	87149355	MSTRG.16547.6	FAM193B
scaffold_4	87116107	87147924	MSTRG.16547.7	FAM193B
scaffold_4	56959817	56969856	MSTRG.16278.1	FAM53C
scaffold_4	27464758	27502971	FANCJ_g16691.t2	FANCJ
scaffold_4	27486384	27502971	FANCJ_g16691.t3	FANCJ
scaffold_4	65020482	65101481	MSTRG.16418.1	FAT2
scaffold_4	67845365	67859049	MSTRG.16430.1	FAXDC2
scaffold_4	67846508	67859049	MSTRG.16430.2	FAXDC2
scaffold_4	79288902	79289897	FBLL1_g17077.t1	FBLL1
scaffold_4	11241273	11282937	FBLN2_g16628.t1	FBLN2
scaffold_4	48366089	48599085	FBN2_g16775.t1	FBN2
scaffold_4	82259139	82338489	FBW1B_g17096.t1	FBXW11
scaffold_4	82381444	82382046	FBW1B_g17097.t1	FBXW11
scaffold_4	62317573	62364257	FBX38_g16965.t1	FBXO38
scaffold_4	31329434	31808435	MSTRG.16090.2	FBXL17

scaffold_4	31329434	31808435	MSTRG.16090.1	FBXL17
scaffold_4	62308703	62364257	MSTRG.16387.1	FBXO38
scaffold_4	62308710	62364257	MSTRG.16387.2	FBXO38
scaffold_4	62308817	62364257	MSTRG.16387.3	FBXO38
scaffold_4	62308817	62364257	MSTRG.16387.4	FBXO38
scaffold_4	82256636	82382046	MSTRG.16492.1	FBXW11
scaffold_4	82256636	82382046	MSTRG.16492.2	FBXW11
scaffold_4	82256673	82382046	MSTRG.16492.3	FBXW11
scaffold_4	82256673	82382046	MSTRG.16492.4	FBXW11
scaffold_4	82256673	82382046	MSTRG.16492.5	FBXW11
scaffold_4	2621146	2740196	FCHO2_g16554.t1	FCHO2
scaffold_4	59827217	59836390	FCSD1_g16941.t1	FCSD1
scaffold_4	37548444	37564204	FEM1C_g16723.t1	FEM1C
scaffold_4	32452564	32548214	FER_g16701.t1	FER
scaffold_4	32092994	32555574	MSTRG.16098.1	FER
scaffold_4	32204859	32209738	MSTRG.16098.4	FER
scaffold_4	60623482	60640604	FGF1_g16954.t1	FGF1
scaffold_4	60620260	60717540	MSTRG.16384.1	FGF1
scaffold_4	60620383	60626194	MSTRG.16384.2	FGF1
scaffold_4	60623165	60628056	MSTRG.16384.3	FGF1
scaffold_4	60626248	60640823	MSTRG.16384.5	FGF1
scaffold_4	86704751	86718127	FGFR4_g17140.t1	FGFR4
scaffold_4	86506936	86634042	MSTRG.16531.3	FH18
scaffold_4	86509751	86634042	MSTRG.16531.4	FH18
scaffold_4	69965209	69965889	FNDC9_g17036.t1	FNDC9
scaffold_4	51106312	51239489	MSTRG.16209.6	FNIP1
scaffold_4	51106312	51239489	MSTRG.16209.7	FNIP1
scaffold_4	42994029	42994751	FTMT_g16747.t1	FTMT
scaffold_4	67847273	67862377	FXDC2_g17025.t1	FAXDC2
scaffold_4	31332185	31807926	FXL17_g16699.t1	FXL17
scaffold_4	65272146	65292927	G3BP1_g17009.t1	G3BP1
scaffold_4	67352915	67557099	MSTRG.16425.1	GALNT10
scaffold_4	61237898	61341183	GCR_g16957.t1	GCR
scaffold_4	52207522	52210041	GDF9_g16806.t1	GDF9
scaffold_4	67924533	67939431	MSTRG.16433.3	GEMIN5
scaffold_4	67898144	67912044	MSTRG.16433.1	GEMIN5
scaffold_4	4164900	4225275	MSTRG.15942.2	GFM2
scaffold_4	4169201	4225275	MSTRG.15942.3	GFM2
scaffold_4	4170763	4197151	MSTRG.15942.5	GFM2
scaffold_4	89600128	89642815	GFPT2_g17193.t1	GFPT2
scaffold_4	89599325	89643538	MSTRG.16588.1	GFPT2
scaffold_4	56904364	56918846	GFRA3_g16859.t1	GFRA3
scaffold_4	27203021	27220389	GIN1_g16688.t1	GIN1
scaffold_4	27200434	27234509	MSTRG.16084.1	GIN1
scaffold_4	27201469	27234509	MSTRG.16084.2	GIN1

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scaffold_4	21404109	21413495	MSTRG.16058.1	GLRX
scaffold_4	21406802	21413495	GLRX1_g16660.t1	GLRX1
scaffold_4	67379276	67566369	GLT10_g17021.t1	GALNT10
scaffold_4	64805082	64817789	MSTRG.16415.1	GM2A
scaffold_4	60135407	60146716	MSTRG.16378.1	GNPDA1
scaffold_4	60135440	60147634	MSTRG.16378.2	GNPDA1
scaffold_4	60136729	60146684	GNPI1_g16948.t1	GNPI1
scaffold_4	64827255	64827477	MSTRG.16414.1	GOSR1
scaffold_4	21216548	21217846	GP150_g16656.t1	GP150
scaffold_4	93110919	93112178	GP151_g17227.t1	GP151
scaffold_4	57468155	57468780	MSTRG.16295.1	GPR26
scaffold_4	64614253	64621570	GPX3_g16998.t1	GPX3
scaffold_4	86234217	86253036	GRIN1_g17132.t1	GRIN1
scaffold_4	87026481	87041348	GRK6_g17149.t1	GRK6
scaffold_4	87026416	87041348	MSTRG.16542.1	GRK6
scaffold_4	87026435	87041348	MSTRG.16542.2	GRK6
scaffold_4	87026481	87035123	MSTRG.16542.4	GRK6
scaffold_4	46797956	46864896	GRM2B_g16761.t1	GRAMD2B
scaffold_4	63134701	63141355	GRPE2_g16972.t1	GRPE2
scaffold_4	63134701	63144148	MSTRG.16391.1	GRPEL2
scaffold_4	1313979	1331849	MSTRG.15913.1	GTF2H2
scaffold_4	1315145	1331849	MSTRG.15913.3	GTF2H2
scaffold_4	1314012	1331849	MSTRG.15913.2	GTF2H2
scaffold_4	668130	668693	H2A3_g16516.t1	H2A3
scaffold_4	54391492	54455936	H2AY_g16833.t1	MACROH2A1
scaffold_4	668831	669211	H2B3B_g16517.t1	H2B3B
scaffold_4	11333339	11409261	MSTRG.16015.1	HAPLN1
scaffold_4	58958294	58977290	HARS1_g16901.t1	HARS1
scaffold_4	58977400	58993095	MSTRG.16334.1	HARS2
scaffold_4	58679305	58690889	MSTRG.16326.1	HB-EGF
scaffold_4	25715590	25729793	HD_g16679.t1	HD
scaffold_4	59808741	59822435	HDAC3_g16939.t1	HDAC3
scaffold_4	4140365	4166535	HEXB_g16565.t1	HEXB
scaffold_4	64037304	64045064	HG2A_g16990.t1	GNB1
scaffold_4	86033385	86034065	HIG2A_g17127.t1	HIGD2A
scaffold_4	50681675	50685939	HINT1_g16781.t1	HINT1
scaffold_4	4671364	4697565	HMDH_g16572.t1	HMDH
scaffold_4	63676436	63724015	HMGX3_g16982.t1	HMGX3
scaffold_4	63676835	63724015	MSTRG.16393.2	HMGXB3
scaffold_4	74772459	74806417	HMMR_g17070.t1	HMMR
scaffold_4	74806802	74807213	MSTRG.16475.1	HMMR
scaffold_4	88965660	88973886	HNRH1_g17182.t1	HNRH1
scaffold_4	87407446	87426292	MSTRG.16560.2	HNRNPAB
scaffold_4	87402945	87409858	MSTRG.16559.1	HNRNPAB

scaffold_4	87403404	87409858	MSTRG.16559.2	HNRNPAB
scaffold_4	87407446	87435179	MSTRG.16560.1	HNRNPAB
scaffold_4	88964493	88973886	MSTRG.16575.4	HNRNPH1
scaffold_4	88963425	88974821	MSTRG.16575.1	HNRNPH1
scaffold_4	88963425	88973708	MSTRG.16575.2	HNRNPH1
scaffold_4	88963425	88974821	MSTRG.16575.3	HNRNPH1
scaffold_4	88964662	88974821	MSTRG.16575.5	HNRNPH1
scaffold_4	88965048	88974821	MSTRG.16575.6	HNRNPH1
scaffold_4	7988689	8097832	HOME1_g16603.t1	HOME1
scaffold_4	11334969	11366507	HPLN1_g16629.t1	HPLN1
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scaffold_4	52419234	52424425	MSTRG.16232.1	HSPA4
scaffold_4	57141398	57142224	MSTRG.16290.1	HSPA9
scaffold_4	86486822	86501008	HXK3_g17137.t2	HK3
scaffold_4	393865	404197	MSTRG.15891.1	IBA57
scaffold_4	394854	401210	MSTRG.15891.3	IBA57
scaffold_4	22158628	22278351	ICAL_g16664.t1	ICAL
scaffold_4	91234833	91235243	IFT52_g17213.t1	IFT52
scaffold_4	58936672	58948351	MSTRG.16337.1	IK
scaffold_4	71370763	71380142	IL12B_g17049.t1	IL12B
scaffold_4	5493066	5752026	IQGA2_g16578.t1	IQGA2
scaffold_4	51865661	51870639	IRF1_g16796.t1	IRF1
scaffold_4	51861977	51871890	MSTRG.16217.1	IRF1
scaffold_4	51864219	51871890	MSTRG.16217.2	IRF1
scaffold_4	49081020	49098679	ISOC1_g16777.t1	ISOC1
scaffold_4	69816706	69859623	ITK_g17034.t1	ITK
scaffold_4	69870090	69871974	MSTRG.16437.1	ITK
scaffold_4	53690648	53730904	JADE2_g16823.t1	JADE2
scaffold_4	53680368	53733313	MSTRG.16250.1	JADE2
scaffold_4	53692823	53713211	MSTRG.16250.3	JADE2
scaffold_4	53681936	53682892	MSTRG.16251.1	JADE2
scaffold_4	94025991	94202595	MSTRG.16616.1	JAKMIP2
scaffold_4	19635577	19636071	JAM1_g16649.t1	F11R
scaffold_4	94031621	94093298	JKIP2_g17231.t1	JKIP2
scaffold_4	8983	14255	JMJD4_g16500.t1	JMJD4
scaffold_4	6319	14255	MSTRG.15885.1	JMJD4
scaffold_4	6319	14255	MSTRG.15885.2	JMJD4
scaffold_4	13685	82685	MSTRG.15886.1	JMJD4
scaffold_4	7861202	7950686	JMY_g16602.t1	JMY
scaffold_4	7860746	7964139	MSTRG.15974.2	JMY
scaffold_4	7860630	7964139	MSTRG.15974.1	JMY
scaffold_4	1162578	1176851	KAD6_g16534.t1	KAD6
scaffold_4	63256187	63305583	KC1A_g16975.t1	CSNK1A1
scaffold_4	44484590	44552991	KC1G3_g16757.t1	CSNK1G3

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scaffold_4	9435749	9446851	KCRS_g16618.t1	CKMT2
scaffold_4	9408110	9420177	KCRS_g16618.t2	CKMT2
scaffold_4	53221105	53232870	KCT2_g16813.t1	KCT2
scaffold_4	56973140	57035160	KDM3B_g16862.t1	KDM3B
scaffold_4	57023113	57035160	MSTRG.16279.2	KDM3B
scaffold_4	365735	373854	KGUA_g16508.t1	GUK1
scaffold_4	56842801	56851774	KI20A_g16857.t1	KI20A
scaffold_4	60068200	60082014	MSTRG.16376.1	KIAA0141
scaffold_4	19965550	20353350	MSTRG.16048.1	KIAA0825
scaffold_4	20183714	20353350	MSTRG.16048.2	KIAA0825
scaffold_4	71311745	71311974	MSTRG.16451.1	KIAA1109
scaffold_4	85988372	86002028	MSTRG.16520.3	KIAA1191
scaffold_4	85987833	86016710	MSTRG.16520.1	KIAA1191
scaffold_4	85987833	86016710	MSTRG.16520.2	KIAA1191
scaffold_4	79066960	79217259	KIBRA_g17075.t1	WWC1
scaffold_4	56842212	56851774	MSTRG.16274.1	KIF20A
scaffold_4	56842251	56851774	MSTRG.16274.2	KIF20A
scaffold_4	52055247	52109865	KIF3A_g16801.t1	KIF3A
scaffold_4	56326641	56431152	KLHL3_g16850.t1	KLHL3
scaffold_4	56322146	56338624	MSTRG.16268.1	KLHL3
scaffold_4	13735612	13735834	MSTRG.16019.1	KPTN
scaffold_4	8097975	8098448	L_g16604.t1	L
scaffold_4	41806691	41976521	LARGN_g16746.t1	LARGN
scaffold_4	67789467	67844303	LARP1_g17024.t1	LARP1
scaffold_4	67789188	67844303	MSTRG.16428.2	LARP1
scaffold_4	67788974	67844303	MSTRG.16428.1	LARP1
scaffold_4	92779393	92822511	MSTRG.16609.1	LARS
scaffold_4	22463402	22514366	LCAP_g16667.t1	LNPEP
scaffold_4	52222667	52223137	LEAP2_g16808.t1	LEAP2
scaffold_4	7230708	7250486	LHPL2_g16596.t1	LHPL2
scaffold_4	35458183	35459507	MSTRG.16118.1	LILRA6
scaffold_4	53774064	53780985	MSTRG.16253.1	LIPM
scaffold_4	86945733	86962645	LMAN2_g17145.t1	LMAN2
scaffold_4	86942176	86962645	MSTRG.16540.1	LMAN2
scaffold_4	22427453	22521596	MSTRG.16066.1	LNPEP
scaffold_4	52395382	52418968	LOC000000048_g16811.t1	LOC000000048
scaffold_4	19527579	19939039	LONF3_g16648.t1	LONF3
scaffold_4	43185597	43185825	MSTRG.16163.1	LOX
scaffold_4	54723523	54735426	LRC8A_g16837.t2	LRRC8A
scaffold_4	20586072	20928000	MSTRG.16050.4	LRCH1
scaffold_4	70237016	70249668	LSM11_g17041.t1	LSM11
scaffold_4	70237016	70245859	LSM11_g17041.t2	LSM11
scaffold_4	70237016	70245859	LSM11_g17041.t3	LSM11
scaffold_4	89156369	89159126	LTC4S_g17186.t1	LTC4S

scaffold_4	89156257	89156700	MSTRG.16578.2	LTC4S
scaffold_4	27366082	27367594	MACIR_g16690.t1	MACIR
scaffold_4	27365953	27367594	MACIR_g16690.t2	MACIR
scaffold_4	54389110	54466750	MSTRG.16263.1	MACROH2A1
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scaffold_4	86913032	86917714	MAD3_g17144.t1	MAD3
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scaffold_4	89060632	89103793	MAML1_g17184.t1	MAML1
scaffold_4	89060632	89103793	MSTRG.16576.3	MAML1
scaffold_4	32949650	33113343	MSTRG.16103.1	MAN2A1
scaffold_4	32950143	33111730	MSTRG.16103.2	MAN2A1
scaffold_4	1915330	2005995	MSTRG.15918.1	MAP1B
scaffold_4	89537218	89589391	MSTRG.16587.4	MAPK9
scaffold_4	89536467	89589391	MSTRG.16587.1	MAPK9
scaffold_4	89536467	89575516	MSTRG.16587.2	MAPK9
scaffold_4	89537218	89589391	MSTRG.16587.3	MAPK9
scaffold_4	89550902	89560176	MSTRG.16587.6	MAPK9
scaffold_4	47138759	47177180	MSTRG.16182.1	MARCH3
scaffold_4	47139254	47277797	MSTRG.16182.2	MARCH3
scaffold_4	47141718	47176246	MARH3_g16767.t1	MARCHF3
scaffold_4	74824849	74836831	MAT2B_g17071.t1	MAT2B
scaffold_4	57773236	57792266	MATR3_g16871.t1	MATR3
scaffold_4	57761755	57792266	MSTRG.16306.1	MATR3
scaffold_4	57761919	57792266	MSTRG.16306.2	MATR3
scaffold_4	16754426	16766323	MBLC2_g16639.t1	MBLAC2
scaffold_4	35581091	35581311	MSTRG.16122.1	MCC
scaffold_4	1507755	1566791	MCCB_g16544.t1	MCCC2
scaffold_4	3707968	3708279	MCR_g16563.t1	MCR
scaffold_4	20422522	20762911	MCTP1_g16652.t1	MCTP1
scaffold_4	20417376	20762911	MSTRG.16050.1	MCTP1
scaffold_4	87970402	87970887	MCUR1_g17169.t2	MCUR1
scaffold_4	69781078	69781796	MED7_g17032.t1	MED7
scaffold_4	69778969	69787758	MSTRG.16438.1	MED7
scaffold_4	15343588	15432347	MEF2C_g16637.t1	MEF2C
scaffold_4	15485880	15507978	MSTRG.16030.1	MEF2C
scaffold_4	15338859	15486244	MSTRG.16029.1	MEF2C
scaffold_4	15338961	15486244	MSTRG.16029.2	MEF2C
scaffold_4	15338966	15486244	MSTRG.16029.3	MEF2C
scaffold_4	1206787	1207128	MSTRG.15911.1	MEGF8
scaffold_4	67219964	67224644	MFAP3_g17019.t1	MFAP3
scaffold_4	2102765	2131660	MSTRG.15925.3	MFSD9
scaffold_4	90239542	90251516	MSTRG.16590.1	MGAT1
scaffold_4	90239542	90258311	MSTRG.16590.2	MGAT1
scaffold_4	89160587	89169667	MGT4B_g17187.t1	MGT4B
scaffold_4	89541027	89575516	MK09_g17192.t1	MAPK9

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scaffold_4	2074095	2102632	MSTRG.15924.3	MRPL15
scaffold_4	359762	365465	MSTRG.15889.5	MRPL55
scaffold_4	2013447	2102632	MSTRG.15924.1	MRPS27
scaffold_4	8954603	9116529	MSH3_g16616.t1	MSH3
scaffold_4	8955453	9116529	MSTRG.16006.2	MSH3
scaffold_4	8976426	9007269	MSTRG.16006.3	MSH3
scaffold_4	8459098	8467209	MTX3_g16607.t1	MTX3
scaffold_4	86912634	86917714	MSTRG.16538.1	MXD3
scaffold_4	90425063	90425462	MSTRG.16595.1	MYLK3
scaffold_4	87352085	87352476	MSTRG.16548.1	N4BP3
scaffold_4	87353031	87353292	MSTRG.16555.1	N4BP3
scaffold_4	87347473	87349839	N4BP3_g17159.t1	N4BP3
scaffold_4	87347440	87349839	N4BP3_g17159.t2	N4BP3
scaffold_4	60207975	60253435	MSTRG.16381.1	NDFIP1
scaffold_4	64097719	64133379	MSTRG.16399.2	NDST1
scaffold_4	58934732	58936474	NDUA2_g16897.t1	NDUFA2
scaffold_4	58934628	58936474	MSTRG.16336.2	NDUFA2
scaffold_4	21922849	21964187	NEC1_g16663.t1	NEC1
scaffold_4	13745937	13746376	MSTRG.16021.1	NFIC
scaffold_4	60208170	60246604	NFIP1_g16950.t1	NFIP1
scaffold_4	87375858	87379705	NHP2_g17161.t1	NHP2
scaffold_4	87375400	87378430	MSTRG.16558.2	NHP2
scaffold_4	70044122	70056743	NIPA4_g17037.t1	NIPA4
scaffold_4	899807	933555	NLRP3_g16523.t1	NLRP3
scaffold_4	65800650	65814397	NMUR2_g17012.t1	NMUR2
scaffold_4	86028515	86033269	NOP16_g17126.t1	NOP16
scaffold_4	61397735	61669089	3MGH_g16958.t1	3MGH_g16958.t1
scaffold_4	16844923	17361712	AGRV1_g16642.t1	AGRV1_g16642.t1
scaffold_4	10049491	10202178	ATG10_g16621.t1	ATG10_g16621.t1
scaffold_4	62064524	62071316	ATRIP_g16962.t1	ATRIP_g16962.t1
scaffold_4	21860783	21872491	CYREN_g16662.t1	CYREN_g16662.t1
scaffold_4	29743346	29743927	DUT_g16697.t1	DUT_g16697.t1
scaffold_4	83738887	83740164	FV1_g17111.t1	FV1_g17111.t1
scaffold_4	79652791	79653162	GARS_g17080.t1	GARS_g17080.t1
scaffold_4	90747270	90753055	GNDS_g17209.t1	GNDS_g17209.t1
scaffold_4	10822596	10850562	KISHA_g16625.t1	KISHA_g16625.t1
scaffold_4	1913671	1914349	MSTRG.15919.1	MSTRG.15919.1
scaffold_4	2488563	2603179	MSTRG.15927.2	MSTRG.15927.2
scaffold_4	5771699	5774957	MSTRG.15954.1	MSTRG.15954.1
scaffold_4	6070766	6300140	MSTRG.15962.1	MSTRG.15962.1
scaffold_4	7220212	7387950	MSTRG.15969.1	MSTRG.15969.1
scaffold_4	7220212	7387950	MSTRG.15969.2	MSTRG.15969.2
scaffold_4	8402470	8402694	MSTRG.15982.1	MSTRG.15982.1

scaffold_4	8554126	8679000	MSTRG.15988.1	MSTRG.15988.1
scaffold_4	8565966	8679000	MSTRG.15988.3	MSTRG.15988.3
scaffold_4	8574741	8679000	MSTRG.15988.4	MSTRG.15988.4
scaffold_4	8774197	8824377	MSTRG.15991.2	MSTRG.15991.2
scaffold_4	9475909	9476125	MSTRG.15995.1	MSTRG.15995.1
scaffold_4	10051643	10051852	MSTRG.15997.1	MSTRG.15997.1
scaffold_4	10167635	10167854	MSTRG.15999.1	MSTRG.15999.1
scaffold_4	9560903	9561133	MSTRG.16002.1	MSTRG.16002.1
scaffold_4	10859757	11082056	MSTRG.16009.3	MSTRG.16009.3
scaffold_4	15879199	15904005	MSTRG.16028.1	MSTRG.16028.1
scaffold_4	20608060	20928000	MSTRG.16050.6	MSTRG.16050.6
scaffold_4	24827619	24827828	MSTRG.16071.1	MSTRG.16071.1
scaffold_4	35799849	35800066	MSTRG.16128.1	MSTRG.16128.1
scaffold_4	37516142	37565334	MSTRG.16139.2	MSTRG.16139.2
scaffold_4	37516142	37565334	MSTRG.16139.3	MSTRG.16139.3
scaffold_4	49946496	49946910	MSTRG.16194.1	MSTRG.16194.1
scaffold_4	49953906	49954256	MSTRG.16198.1	MSTRG.16198.1
scaffold_4	49958721	49958962	MSTRG.16199.1	MSTRG.16199.1
scaffold_4	51774237	51774447	MSTRG.16212.1	MSTRG.16212.1
scaffold_4	53405946	53406153	MSTRG.16244.1	MSTRG.16244.1
scaffold_4	59186820	59187031	MSTRG.16341.1	MSTRG.16341.1
scaffold_4	60444387	60444614	MSTRG.16382.1	MSTRG.16382.1
scaffold_4	60453668	60453887	MSTRG.16383.1	MSTRG.16383.1
scaffold_4	64052190	64052406	MSTRG.16395.1	MSTRG.16395.1
scaffold_4	64194997	64249984	MSTRG.16400.1	MSTRG.16400.1
scaffold_4	64233116	64249984	MSTRG.16400.4	MSTRG.16400.4
scaffold_4	65161351	65184602	MSTRG.16420.1	MSTRG.16420.1
scaffold_4	65257949	65297781	MSTRG.16422.2	MSTRG.16422.2
scaffold_4	69078193	69078411	MSTRG.16436.1	MSTRG.16436.1
scaffold_4	69833923	69834132	MSTRG.16441.1	MSTRG.16441.1
scaffold_4	70658920	70659135	MSTRG.16450.1	MSTRG.16450.1
scaffold_4	74050141	74050354	MSTRG.16470.1	MSTRG.16470.1
scaffold_4	81407414	81491909	MSTRG.16486.2	MSTRG.16486.2
scaffold_4	81548290	81548494	MSTRG.16487.1	MSTRG.16487.1
scaffold_4	82707618	82707818	MSTRG.16501.1	MSTRG.16501.1
scaffold_4	86506462	86606031	MSTRG.16531.1	MSTRG.16531.1
scaffold_4	86506897	86634042	MSTRG.16531.2	MSTRG.16531.2
scaffold_4	86509801	86634042	MSTRG.16531.5	MSTRG.16531.5
scaffold_4	87305058	87305290	MSTRG.16554.1	MSTRG.16554.1
scaffold_4	89777234	89846449	MSTRG.16589.2	MSTRG.16589.2
scaffold_4	90388530	90388865	MSTRG.16592.1	MSTRG.16592.1
scaffold_4	90268642	90282299	MSTRG.16593.5	MSTRG.16593.5
scaffold_4	59633191	59633868	PCDGI_g16936.t1	PCDGI_g16936.t1
scaffold_4	44585477	44659365	PPM1G_g16758.t1	PPM1G_g16758.t1
scaffold_4	89391735	89470292	RGF1C_g17191.t1	RGF1C_g17191.t1

scaffold_4	6244298	6244441	RL23A_g16586.t1	RL23A_g16586.t1
scaffold_4	9527067	9819062	SSBP2_g16620.t1	SSBP2_g16620.t1
scaffold_4	79223698	79258511	SYRC_g17076.t1	SYRC_g17076.t1
scaffold_4	51655753	51656298	WDR90_g16791.t1	WDR90_g16791.t1
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scaffold_4	620377	621063	MSTRG.15893.2	NOTHING
scaffold_4	615889	616701	MSTRG.15895.1	NOTHING
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scaffold_4	693583	693787	MSTRG.15898.1	NOTHING
scaffold_4	696192	696757	MSTRG.15902.1	NOTHING
scaffold_4	698333	698566	MSTRG.15903.1	NOTHING
scaffold_4	1208243	1227452	MSTRG.15906.1	NOTHING
scaffold_4	1311140	1311629	MSTRG.15907.1	NOTHING
scaffold_4	1311897	1312261	MSTRG.15908.1	NOTHING
scaffold_4	1262408	1309093	MSTRG.15912.1	NOTHING
scaffold_4	1312845	1313069	MSTRG.15914.1	NOTHING
scaffold_4	1628204	1628475	MSTRG.15916.1	NOTHING
scaffold_4	1536040	1568581	MSTRG.15917.2	NOTHING
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scaffold_4	2346705	2349366	MSTRG.15923.1	NOTHING
scaffold_4	2357483	2369748	MSTRG.15926.1	NOTHING
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scaffold_4	81822330	81838279	MSTRG.16489.2	NPM1
scaffold_4	86968282	86981257	NPT2A_g17146.t1	SLC34A1
scaffold_4	61236482	61345182	MSTRG.16386.2	NR3C1
scaffold_4	61233740	61343984	MSTRG.16386.1	NR3C1
scaffold_4	34531046	34561116	MSTRG.16115.1	NREP
scaffold_4	34531259	34561513	MSTRG.16115.2	NREP
scaffold_4	34533050	34559290	NREP_g16710.t1	NREP
scaffold_4	58202571	58259989	NRG2_g16883.t1	NRG2
scaffold_4	4225497	4232479	NSA2_g16567.t1	NSA2
scaffold_4	86744883	86903135	NSD1_g17141.t1	NSD1
scaffold_4	86742661	86903135	MSTRG.16535.1	NSD1
scaffold_4	86742740	86903135	MSTRG.16535.2	NSD1
scaffold_4	86743413	86905321	MSTRG.16535.3	NSD1
scaffold_4	86743780	86756628	MSTRG.16535.4	NSD1
scaffold_4	90545306	90546390	MSTRG.16600.1	NTRK3
scaffold_4	27618242	27627696	NUD12_g16692.t1	NUD12
scaffold_4	74766193	74771782	NUDC2_g17069.t1	NUDCD2
scaffold_4	483356	585071	OBSCN_g16511.t1	OBSCN
scaffold_4	1268467	1308126	OCLN_g16538.t1	OCLN
scaffold_4	59507430	59508335	ORNT1_g16918.t1	SLC25A15
scaffold_4	37646621	37648622	MSTRG.16140.1	OTUD7B
scaffold_4	85989059	85999921	P33MX_g17124.t1	P33MX
scaffold_4	51592592	51630422	MSTRG.16216.1	P4HA2
scaffold_4	51592592	51630422	MSTRG.16216.2	P4HA2
scaffold_4	51592592	51630422	MSTRG.16216.3	P4HA2
scaffold_4	51592643	51630422	MSTRG.16216.4	P4HA2
scaffold_4	51592643	51630422	MSTRG.16216.5	P4HA2
scaffold_4	51596766	51630364	MSTRG.16216.6	P4HA2

scaffold_4	51596766	51630364	MSTRG.16216.7	P4HA2
scaffold_4	57799317	57837903	MSTRG.16312.1	PAIP2
scaffold_4	57826909	57832744	PAIP2_g16872.t1	PAIP2
scaffold_4	27164020	27184116	MSTRG.16080.10	PAM
scaffold_4	26897203	27066328	MSTRG.16080.3	PAM
scaffold_4	27020933	27036647	MSTRG.16080.4	PAM
scaffold_4	79308268	79326865	PANK3_g17078.t1	PANK3
scaffold_4	3228261	3228527	PAPOA_g16562.t1	PAPOLA
scaffold_4	5677488	5682604	PAR3_g16579.t1	PAR3
scaffold_4	53996126	54002007	MSTRG.16262.1	PCBD2
scaffold_4	60087048	60099316	PCD12_g16946.t1	PCD12
scaffold_4	59078988	59081404	PCDA1_g16904.t1	PCDHA1
scaffold_4	59088983	59091431	PCDA1_g16904.t2	PCDHA1
scaffold_4	59319074	59321530	PCDB1_g16911.t2	PCDHB1
scaffold_4	59351899	59379883	PCDB4_g16912.t1	PCDHB4
scaffold_4	59395462	59397852	PCDB6_g16913.t1	PCDB6
scaffold_4	59431764	59433749	PCDBB_g16914.t1	PCDBB
scaffold_4	59431467	59433749	PCDBB_g16914.t2	PCDBB
scaffold_4	59442486	59460062	PCDBE_g16915.t1	PCDHB14
scaffold_4	59442486	59445340	PCDBE_g16915.t2	PCDHB14
scaffold_4	59457746	59460062	PCDBE_g16915.t3	PCDHB14
scaffold_4	59462798	59465184	PCDBF_g16917.t1	PCDHB15
scaffold_4	59183738	59186194	PCDC1_g16909.t1	PDCD1
scaffold_4	59163245	59165659	PCDC1_g16909.t2	PDCD1
scaffold_4	59223236	59263295	PCDC2_g16910.t1	PCDHAC2
scaffold_4	59223179	59263295	PCDC2_g16910.t2	PCDHAC2
scaffold_4	59539841	59542423	PCDG2_g16920.t1	PCDG2
scaffold_4	59545110	59547602	PCDG3_g16921.t1	PCDG3
scaffold_4	59555003	59557456	PCDG4_g16923.t1	PCDG4
scaffold_4	59564624	59566660	PCDG5_g16925.t1	PCDG5
scaffold_4	59564150	59566660	PCDG5_g16925.t2	PCDG5
scaffold_4	59564099	59566660	PCDG5_g16925.t3	PCDG5
scaffold_4	59572614	59575124	PCDG6_g16926.t1	PCDG6
scaffold_4	59588775	59591288	PCDG8_g16928.t1	PCDG8
scaffold_4	59598568	59599416	PCDG9_g16930.t1	PCDG9
scaffold_4	59615647	59618130	PCDGB_g16933.t1	PCDGB
scaffold_4	59624886	59627342	PCDGC_g16935.t1	PCDGC
scaffold_4	59550209	59552617	PCDGD_g16922.t1	PCDGD
scaffold_4	59550965	59552617	PCDGD_g16922.t2	PCDGD
scaffold_4	59559580	59563234	PCDGE_g16924.t2	PCDGE
scaffold_4	59593701	59596124	PCDGH_g16929.t1	PCDHGB5
scaffold_4	59602893	59605349	PCDGI_g16931.t1	PCDHGB6
scaffold_4	59612255	59614687	PCDGJ_g16932.t1	PCDHB7
scaffold_4	59661886	59664360	PCDGM_g16937.t1	PCDHGC5
scaffold_4	59669237	59671834	PCDGM_g16937.t2	PCDHGC5

scaffold_4	60020176	60042261	PCDH1_g16943.t1	PCDH1
scaffold_4	59452287	59454674	PCDBI_g16916.t1	PCDH18
scaffold_4	59620731	59623157	PCDGD_g16934.t1	PCDH18
scaffold_4	59182549	59182780	MSTRG.16338.1	PCDHAC2
scaffold_4	59222925	59263846	MSTRG.16340.1	PCDHAC2
scaffold_4	59469478	59469814	MSTRG.16350.1	PCDHB15
scaffold_4	59471463	59471683	MSTRG.16351.1	PCDHB15
scaffold_4	59354814	59355025	MSTRG.16344.1	PCDHB2
scaffold_4	59372782	59372986	MSTRG.16345.1	PCDHB4
scaffold_4	59375961	59376171	MSTRG.16346.1	PCDHB5
scaffold_4	59414829	59420716	MSTRG.16347.1	PCDHB8
scaffold_4	59424417	59425175	MSTRG.16348.1	PCDHB8
scaffold_4	59532328	59532894	MSTRG.16355.1	PCDHGA1
scaffold_4	59598124	59598333	MSTRG.16363.1	PCDHGA9
scaffold_4	59593701	59694613	MSTRG.16361.4	PCDHGB5
scaffold_4	59676501	59694613	MSTRG.16361.14	PCDHGC4
scaffold_4	59579636	59582095	PCDG7_g16927.t1	PCDHGC4
scaffold_4	59673303	59694613	PCDGM_g16937.t3	PCDHGC4
scaffold_4	59661658	59694613	MSTRG.16361.11	PCDHGC4
scaffold_4	59572817	59694613	MSTRG.16361.2	PCDHGC4
scaffold_4	59602893	59694613	MSTRG.16361.6	PCDHGC4
scaffold_4	59608910	59694613	MSTRG.16361.8	PCDHGC4
scaffold_4	59615494	59694613	MSTRG.16361.9	PCDHGC4
scaffold_4	59607008	59608617	MSTRG.16365.1	PCDHGC4
scaffold_4	4884625	4884827	MSTRG.15948.1	PDE4A
scaffold_4	6274366	6300140	PDE8B_g16587.t2	PDE8B
scaffold_4	6098251	6292634	MSTRG.15962.2	PDE8B
scaffold_4	6294809	6347328	MSTRG.15966.1	PDE8B
scaffold_4	8776080	8824377	MSTRG.15991.4	PDGFRA
scaffold_4	8776080	8824377	MSTRG.15991.5	PDGFRA
scaffold_4	63788831	63808632	MSTRG.16394.2	PDGFRB
scaffold_4	51656733	51671969	PDLI4_g16792.t1	PDLIM4
scaffold_4	87079428	87096040	PDLI7_g17152.t1	PDLIM7
scaffold_4	51656692	51671969	MSTRG.16214.1	PDLIM4
scaffold_4	87088545	87096040	MSTRG.16544.2	PDLIM7
scaffold_4	53642501	53654149	PDPR_g16821.t1	PDPR
scaffold_4	8557319	8679000	MSTRG.15988.2	PEX3
scaffold_4	58646230	58649643	PFD1_g16887.t1	PFD1
scaffold_4	58573547	58649643	MSTRG.16325.1	PFDN1
scaffold_4	63772788	63800177	PGFRB_g16984.t1	PGFRB
scaffold_4	37285772	37342456	MSTRG.16137.1	PGGT1B
scaffold_4	53408975	53409786	MSTRG.16239.1	PGM2
scaffold_4	46943485	46959181	PHAX_g16764.t1	PHAX
scaffold_4	46959567	46960073	MSTRG.16178.1	PHAX
scaffold_4	87410133	87435179	MSTRG.16560.4	PHYKPL

scaffold_4	87410119	87424169	MSTRG.16560.3	PHYKPL
scaffold_4	87413144	87431119	MSTRG.16560.6	PHYKPL
scaffold_4	87428728	87435179	MSTRG.16560.7	PHYKPL
scaffold_4	54092740	54097983	PITX1_g16832.t2	PITX1
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scaffold_4	32660468	32730323	MSTRG.16099.2	PJA2
scaffold_4	32660481	32730323	MSTRG.16099.3	PJA2
scaffold_4	32663592	32731077	PJA2_g16702.t1	PJA2
scaffold_4	56569719	56617165	PK2L2_g16853.t1	PKD2L2
scaffold_4	67208233	67227182	MSTRG.16424.1	PKD1L3
scaffold_4	72107607	72107816	MSTRG.16460.1	PLA2G4F
scaffold_4	92731980	92823657	MSTRG.16608.1	PLAC8L1
scaffold_4	14102111	14109003	PLXA2_g16632.t1	PLXA2
scaffold_4	4950791	4986327	MSTRG.15952.1	POC5
scaffold_4	53415263	53435860	PP2AA_g16817.t1	PPP2CA
scaffold_4	43997441	44010172	PPIC_g16754.t1	PPIC
scaffold_4	27234684	27309679	MSTRG.16085.2	PPIP5K2
scaffold_4	27256953	27309679	MSTRG.16085.6	PPIP5K2
scaffold_4	27234684	27309679	MSTRG.16085.1	PPIP5K2
scaffold_4	27234844	27309679	MSTRG.16085.3	PPIP5K2
scaffold_4	27235053	27246414	MSTRG.16085.4	PPIP5K2
scaffold_4	90793964	90925016	DRC8_g17211.t1	PPP2R2A
scaffold_4	47677610	47714606	MSTRG.16185.1	PRCC1
scaffold_4	44058438	44154437	PRDM6_g16755.t1	PRDM6
scaffold_4	86908984	86912386	MSTRG.16537.1	PRELID1
scaffold_4	92440187	92511926	MSTRG.16607.1	PRELID2
scaffold_4	92495476	92497247	MSTRG.16607.3	PRELID2
scaffold_4	63455845	63559449	PRGC2_g16977.t1	PRGC2
scaffold_4	86909137	86912386	PRLD1_g17143.t1	PRELID1
scaffold_4	57846166	57848275	PROB1_g16874.t1	PROB1
scaffold_4	88033323	88034657	PROP1_g17170.t1	PROP1
scaffold_4	88033323	88036138	PROP1_g17170.t2	PROP1
scaffold_4	23855369	23856439	MSTRG.16073.1	PRP
scaffold_4	70234458	70235032	MSTRG.16448.1	PSPN
scaffold_4	2102765	2131660	MSTRG.15925.2	PTCD2
scaffold_4	2102763	2131388	PTCD2_g16548.t1	PTCD2
scaffold_4	72264916	72272257	MSTRG.16469.1	PTTG1
scaffold_4	72264916	72272257	MSTRG.16469.2	PTTG1
scaffold_4	72265522	72272257	PTTG1_g17060.t1	PTTG1
scaffold_4	58450177	58468093	MSTRG.16323.1	PURA
scaffold_4	58456432	58457886	PURA_g16885.t1	PURA
scaffold_4	72005792	72024793	PWP2A_g17054.t1	PWP2A
scaffold_4	71989897	72024793	MSTRG.16461.1	PWWP2A
scaffold_4	38694675	38702408	PZP_g16736.t1	PZP
scaffold_4	52216173	52217184	QCR8_g16807.t1	QCR8

scaffold_4	86903114	86908931	MSTRG.16536.1	RAB24
scaffold_4	86906948	86908931	RAB24_g17142.t1	RAB24
scaffold_4	90540424	90544999	RACK1_g17204.t1	RACK1
scaffold_4	51934197	52004856	MSTRG.16218.1	RAD50
scaffold_4	51934385	52004856	MSTRG.16218.2	RAD50
scaffold_4	51934681	52004856	RAD50_g16798.t1	RAD50
scaffold_4	40675941	40676141	MSTRG.16155.1	RAD54B
scaffold_4	50896067	51172031	MSTRG.16209.1	RAPGEF6
scaffold_4	50897873	51117326	MSTRG.16209.2	RAPGEF6
scaffold_4	50897873	50941408	MSTRG.16209.3	RAPGEF6
scaffold_4	50979480	51036460	MSTRG.16209.5	RAPGEF6
scaffold_4	14215306	14315034	MSTRG.16024.1	RASA1
scaffold_4	14307747	14334001	MSTRG.16025.1	RASA1
scaffold_4	14215672	14315034	RASA1_g16633.t1	RASA1
scaffold_4	64277440	64286009	RBM22_g16994.t1	RBM22
scaffold_4	64276483	64286009	MSTRG.16402.1	RBM22
scaffold_4	92837519	92871371	MSTRG.16611.1	RBM27
scaffold_4	92837647	92910263	MSTRG.16611.2	RBM27
scaffold_4	92837680	92910263	MSTRG.16611.3	RBM27
scaffold_4	92837680	92908212	MSTRG.16611.4	RBM27
scaffold_4	92837741	92865292	MSTRG.16611.5	RBM27
scaffold_4	58936779	58946044	RED_g16898.t1	RED
scaffold_4	57037357	57042333	REEP2_g16863.t1	REEP2
scaffold_4	35462789	35498091	REEP5_g16714.t1	REEP5
scaffold_4	59825975	59832751	MSTRG.16374.1	RELL2
scaffold_4	59823875	59826129	RELL2_g16940.t1	RELL2
scaffold_4	21246516	21249900	RFESD_g16657.t1	RFESD
scaffold_4	21246441	21249900	RFESD_g16657.t2	RFESD
scaffold_4	21237561	21249900	MSTRG.16052.1	RFESD
scaffold_4	357103	359761	MMTA2_g16506.t1	RFX1
scaffold_4	361792	364571	RM55_g16507.t1	RFX1
scaffold_4	354855	359761	MSTRG.15889.1	RFX1
scaffold_4	355627	359761	MSTRG.15889.2	RFX1
scaffold_4	23710484	23738297	RGMB_g16671.t1	RGMB
scaffold_4	90633181	90660920	RGRF1_g17208.t1	RGRF1
scaffold_4	21309325	21380102	RHBT3_g16659.t1	RHBT3
scaffold_4	61169033	61185853	RHG26_g16956.t1	ARHGAP26
scaffold_4	23771600	23772928	MSTRG.16068.1	RHOQ
scaffold_4	22620403	22641364	RIOK2_g16670.t1	RIOK2
scaffold_4	47923590	47923817	RL26L_g16773.t1	RL26L
scaffold_4	28366751	28367170	RL4_g16694.t1	RPL4
scaffold_4	67940890	67971609	RM22_g17028.t1	MRPL22
scaffold_4	87362407	87374803	RMD5B_g17160.t1	RMD5B
scaffold_4	87362380	87374803	RMD5B_g17160.t2	RMD5B
scaffold_4	87357865	87374803	MSTRG.16557.1	RMND5B

scaffold_4	87358021	87374803	MSTRG.16557.2	RMND5B
scaffold_4	87358021	87374803	MSTRG.16557.3	RMND5B
scaffold_4	71221304	71295490	RN145_g17047.t1	RN145
scaffold_4	685695	692626	RN187_g16520.t1	RNF187
scaffold_4	89290766	89300886	MSTRG.16584.1	RNF130
scaffold_4	89300976	89391037	MSTRG.16585.1	RNF130
scaffold_4	89300976	89391037	MSTRG.16585.2	RNF130
scaffold_4	87434615	87434897	MSTRG.16561.1	RNF135
scaffold_4	60110220	60132325	MSTRG.16377.1	RNF14
scaffold_4	60110220	60132325	MSTRG.16377.2	RNF14
scaffold_4	86172636	86183807	MSTRG.16526.3	RNF44
scaffold_4	86175472	86183048	MSTRG.16526.7	RNF44
scaffold_4	86172635	86183807	MSTRG.16526.1	RNF44
scaffold_4	86172635	86189215	MSTRG.16526.2	RNF44
scaffold_4	86172885	86183048	MSTRG.16526.4	RNF44
scaffold_4	86174955	86183048	MSTRG.16526.5	RNF44
scaffold_4	56451339	56452247	ROA0_g16851.t1	ROA0
scaffold_4	87403711	87409858	ROAA_g17162.t1	HNRNPAB
scaffold_4	16775174	16804248	RPC7_g16640.t1	POLR3G
scaffold_4	50901319	51106311	RPGF6_g16784.t1	RPGF6
scaffold_4	83203559	83211896	MSTRG.16506.1	RPL26L1
scaffold_4	83204212	83211896	MSTRG.16506.3	RPL26L1
scaffold_4	83203978	83211896	MSTRG.16506.2	RPL26L1
scaffold_4	31937554	31941138	MSTRG.16093.1	RPL4
scaffold_4	28367306	28368027	MSTRG.16095.1	RPL4
scaffold_4	58371237	58371545	MSTRG.16321.1	RPL7
scaffold_4	64067235	64073565	MSTRG.16398.1	RPS14
scaffold_4	4169403	4218115	RRF2M_g16566.t1	RRF2M
scaffold_4	64067634	64071244	RS14_g16991.t1	RS14
scaffold_4	92834071	92834322	RS27_g17223.t1	RPS27
scaffold_4	23907152	23907616	RS6_g16674.t1	RPS6
scaffold_4	2362425	2369748	MSTRG.15926.2	RSPH9
scaffold_4	2014735	2102632	RT27_g16547.t1	MRPS27
scaffold_4	1173726	1177045	MSTRG.15909.3	RTBDN
scaffold_4	1173726	1176851	MSTRG.15909.2	RTBDN
scaffold_4	88911572	88961125	RUFY1_g17181.t1	RUFY1
scaffold_4	88948066	88961467	MSTRG.16573.2	RUFY1
scaffold_4	48195471	48301001	S12A2_g16774.t1	SLC12A2
scaffold_4	51686712	51737496	S22A4_g16793.t1	SLC22A4
scaffold_4	51757606	51780788	S22A5_g16794.t1	S22A5
scaffold_4	57837905	57838285	S23A1_g16873.t1	SLC23A1
scaffold_4	57839366	57842196	S23A1_g16873.t2	S23A1
scaffold_4	63655939	63661132	S26A2_g16979.t1	S26A2
scaffold_4	48964381	49025914	S27A6_g16776.t1	SLC27A6
scaffold_4	58887222	58888419	S35A4_g16894.t1	SLC35A4

scaffold_4	58887159	58888419	S35A4_g16894.t2	SLC35A4
scaffold_4	58884783	58887158	S35U4_g16893.t1	S35U4
scaffold_4	64972046	65002204	S36A1_g17005.t1	SLC36A1
scaffold_4	62827023	62886548	S3TC2_g16969.t1	SH3TC2
scaffold_4	64805286	64817789	SAP3_g17002.t1	GM2A
scaffold_4	67590793	67591061	MSTRG.16427.1	SAP30L
scaffold_4	53744134	53772871	MSTRG.16252.1	SAR1B
scaffold_4	53744258	53772871	MSTRG.16252.2	SAR1B
scaffold_4	53749057	53762845	SAR1B_g16824.t1	SAR1B
scaffold_4	53781587	53850264	SC24A_g16825.t1	SEC24A
scaffold_4	7116445	7213227	SCAM1_g16595.t1	SCAMP1
scaffold_4	47937460	47937661	MSTRG.16188.1	SCEL
scaffold_4	83334574	83354463	SEC20_g17107.t1	SEC20
scaffold_4	53811476	53850264	MSTRG.16254.2	SEC24A
scaffold_4	38433458	38559477	MSTRG.16148.1	SEMA6A
scaffold_4	52116966	52122167	MSTRG.16220.2	SEPTIN8
scaffold_4	52119356	52119578	MSTRG.16222.1	SEPTIN8
scaffold_4	52120177	52145571	MSTRG.16223.1	SEPTIN8
scaffold_4	52126822	52145571	SEPT8_g16803.t1	SEPTIN8
scaffold_4	8593845	8679000	SERC5_g16609.t1	SERC5
scaffold_4	33118853	33119083	MSTRG.16102.1	SERGEF
scaffold_4	8634682	8669837	MSTRG.15988.6	SERINC5
scaffold_4	85391200	85423681	MSTRG.16513.2	SFXN1
scaffold_4	85391200	85421913	SFXN1_g17118.t1	SFXN1
scaffold_4	65257557	65297781	MSTRG.16422.1	SH3BP1
scaffold_4	82648386	82648613	MSTRG.16495.1	SH3PXD2B
scaffold_4	52181463	52184883	SHRM1_g16805.t1	SHROOM1
scaffold_4	52181056	52189532	MSTRG.16224.1	SHROOM1
scaffold_4	52181756	52184289	MSTRG.16224.3	SHROOM1
scaffold_4	25399537	25498335	SIA8D_g16678.t1	SIA8D
scaffold_4	57477918	57702060	SIL1_g16870.t1	SIL1
scaffold_4	85903831	85987355	MSTRG.16519.1	SIMC1
scaffold_4	53382879	53398536	MSTRG.16238.1	SKP1
scaffold_4	53384354	53395530	SKP1_g16816.t1	SKP1
scaffold_4	53384305	53395530	SKP1_g16816.t2	SKP1
scaffold_4	48302256	48302542	MSTRG.16189.1	SLC12A2
scaffold_4	48195980	48301001	MSTRG.16191.2	SLC12A2
scaffold_4	51753413	51753629	MSTRG.16215.1	SLC22A4
scaffold_4	57838973	57839185	MSTRG.16307.1	SLC23A1
scaffold_4	57840375	57840781	MSTRG.16308.2	SLC23A1
scaffold_4	57845620	57845838	MSTRG.16310.1	SLC23A1
scaffold_4	57835138	57837903	MSTRG.16312.3	SLC23A1
scaffold_4	33722825	33731843	MSTRG.16109.1	SLC25A46
scaffold_4	63642666	63665565	MSTRG.16390.1	SLC26A2
scaffold_4	63642688	63665565	MSTRG.16390.3	SLC26A2

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scaffold_4	19490756	19491007	MSTRG.16042.1	SLC46A2
scaffold_4	20352116	20410854	SLF1_g16651.t1	SLF1
scaffold_4	79414113	79764069	SLIT3_g17079.t1	SLIT3
scaffold_4	72247008	72261831	MSTRG.16468.1	SLU7
scaffold_4	72247008	72261831	MSTRG.16468.2	SLU7
scaffold_4	72248624	72260052	SLU7_g17059.t1	SLU7
scaffold_4	55061027	55109556	MSTRG.16265.1	SMAD5
scaffold_4	55061037	55108056	MSTRG.16265.2	SMAD5
scaffold_4	55080947	55109556	MSTRG.16265.3	SMAD5
scaffold_4	55083407	55108056	SMAD5_g16843.t1	SMAD5
scaffold_4	90258716	90276619	MSTRG.16593.1	SMARCC2
scaffold_4	90259544	90281184	MSTRG.16593.2	SMARCC2
scaffold_4	1392043	1400776	SMN_g16541.t1	SMN
scaffold_4	1381080	1400776	MSTRG.15915.1	SMN1
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scaffold_4	16700	82685	SNP47_g16501.t1	SNP47
scaffold_4	46874093	46874602	SNX15_g16762.t1	SNX15
scaffold_4	43772995	43836288	MSTRG.16164.1	SNX2
scaffold_4	43773012	43836288	SNX2_g16752.t1	SNX2
scaffold_4	43844835	43986007	MSTRG.16167.2	SNX24
scaffold_4	43844849	43986007	SNX24_g16753.t1	SNX24
scaffold_4	26479885	26539707	SO4C1_g16681.t1	SO4C1
scaffold_4	88398137	88426166	SOAT2_g17178.t1	SOAT2
scaffold_4	67582420	67590691	SP30L_g17022.t1	SAP30L
scaffold_4	57855534	57860575	SPA24_g16875.t1	SPATA24
scaffold_4	21251031	21290058	SPAT9_g16658.t1	SPAT9
scaffold_4	82652491	82752444	SPD2B_g17101.t1	SPD2B
scaffold_4	80252059	80274683	MSTRG.16484.1	SPDL1
scaffold_4	80256347	80274683	SPDLY_g17082.t1	SPDLY
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scaffold_4	55730042	56216605	MSTRG.16266.1	SPOCK1
scaffold_4	60376562	60377461	SPY4_g16952.t2	SPY4
scaffold_4	89179666	89191800	SQSTM_g17188.t1	SQSTM1
scaffold_4	58871105	58884172	MSTRG.16330.1	SRA1
scaffold_4	58871330	58878665	SRA1_g16891.t1	SRA1
scaffold_4	43087125	43163478	SRFB1_g16748.t1	SRFBP1
scaffold_4	43087004	43163478	MSTRG.16157.1	SRFBP1
scaffold_4	35449296	35455514	SRP19_g16713.t1	SRP19
scaffold_4	9526215	9535786	MSTRG.16001.1	SSBP2
scaffold_4	86197064	86233893	MSTRG.16527.1	SSTR2
scaffold_4	93727049	93834577	ST32A_g17229.t1	ST32A
scaffold_4	25396160	25396446	MSTRG.16078.1	ST8SIA4
scaffold_4	34362325	34378003	STAR4_g16709.t1	STAR4

scaffold_4	34357950	34378087	MSTRG.16114.1	STARD4
scaffold_4	34363451	34378087	MSTRG.16114.3	STARD4
scaffold_4	83484462	83495135	STC2_g17110.t1	STC2
scaffold_4	72238819	72239108	MSTRG.16467.1	STEAP2
scaffold_4	57916279	57920030	STING_g16879.t1	STING
scaffold_4	82410520	82411887	MSTRG.16491.1	STK10
scaffold_4	82412820	82525712	STK10_g17098.t1	STK10
scaffold_4	93721225	93838558	MSTRG.16613.1	STK32A
scaffold_4	93721225	93831586	MSTRG.16613.2	STK32A
scaffold_4	5252402	5450021	MSTRG.15953.1	SV2C
scaffold_4	5301188	5445040	SV2C_g16577.t1	SV2C
scaffold_4	5301155	5445040	SV2C_g16577.t2	SV2C
scaffold_4	52173179	52174828	SWAHA_g16804.t1	SOWAHA
scaffold_4	58977591	58983886	SYHM_g16902.t1	HARS2
scaffold_4	92760950	92823657	SYLC_g17222.t1	SYLC
scaffold_4	64212732	64242246	SYNPO_g16992.t2	SYNPO
scaffold_4	14879633	14947762	T161B_g16635.t1	T161B
scaffold_4	1173726	1174537	TAF9_g16535.t1	TAF9
scaffold_4	27190569	27191120	TBA3_g16687.t1	TBA3
scaffold_4	89212739	89256111	MSTRG.16583.1	TBC1D9B
scaffold_4	89213802	89256111	TBC9B_g17190.t1	TBC1D9B
scaffold_4	6519439	6595818	TBCA_g16591.t1	TBCA
scaffold_4	37613392	37614158	TCAM2_g16724.t1	TICAM2
scaffold_4	93042847	93107624	MSTRG.16612.1	TCERG1
scaffold_4	93042847	93107624	MSTRG.16612.2	TCERG1
scaffold_4	93042865	93107624	MSTRG.16612.3	TCERG1
scaffold_4	93042865	93107624	MSTRG.16612.4	TCERG1
scaffold_4	93042866	93107624	MSTRG.16612.5	TCERG1
scaffold_4	53341025	53377931	MSTRG.16237.1	TCF7
scaffold_4	53341185	53374176	MSTRG.16237.3	TCF7
scaffold_4	53341185	53376643	MSTRG.16237.4	TCF7
scaffold_4	53362466	53377931	MSTRG.16237.5	TCF7
scaffold_4	53341185	53373561	TCF7_g16815.t1	TCF7
scaffold_4	63994046	64035423	MSTRG.16396.1	TCOF1
scaffold_4	93042866	93107624	TCRG1_g17226.t1	TCERG1
scaffold_4	82965899	82970173	MSTRG.16503.1	TCTE1
scaffold_4	78634287	79042436	TEN2_g17073.t1	TENM2
scaffold_4	8160692	8225854	MSTRG.15980.1	TENT2
scaffold_4	8160692	8225854	MSTRG.15980.2	TENT2
scaffold_4	8160713	8225854	MSTRG.15980.3	TENT2
scaffold_4	1315897	1331849	TF2H2_g16539.t1	TF2H2
scaffold_4	40896923	40932709	TFIP8_g16742.t1	TFIP8
scaffold_4	90608984	90609502	TGTP2_g17206.t1	TGTP2
scaffold_4	70227571	70233442	THG1_g17040.t1	THG1L
scaffold_4	70233452	70233868	MSTRG.16447.1	THG1L

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scaffold_4	85781089	85789670	THOC3_g17122.t1	THOC3
scaffold_4	37610176	37628036	MSTRG.16138.1	TICAM2
scaffold_4	54504447	54505061	TIFAB_g16834.t1	TIFAB
scaffold_4	63672466	63674122	TIGD6_g16980.t1	TIGD6
scaffold_4	63672466	63677249	TIGD6_g16981.t1	TIGD6
scaffold_4	2770309	2777386	TM171_g16555.t1	TMEM171
scaffold_4	2810072	2810905	TM174_g16556.t2	TM174
scaffold_4	33516057	33676742	TM232_g16705.t1	TMEM232
scaffold_4	58929138	58934312	MSTRG.16335.1	TMCO6
scaffold_4	58929425	58932146	MSTRG.16335.3	TMCO6
scaffold_4	58934273	58936474	MSTRG.16336.1	TMCO6
scaffold_4	58929194	58934312	TMCO6_g16896.t1	TMCO6
scaffold_4	37684377	37692966	MSTRG.16142.2	TMED7
scaffold_4	37660560	37693445	TMED7_g16726.t1	TMED7
scaffold_4	87210709	87241132	MSTRG.16550.1	TMED9
scaffold_4	87188820	87194973	TMED9_g17156.t1	TMED9
scaffold_4	87210883	87217466	TMED9_g17157.t1	TMED9
scaffold_4	87210709	87217466	TMED9_g17157.t2	TMED9
scaffold_4	2766115	2777386	MSTRG.15932.2	TMEM171
scaffold_4	2766115	2777386	MSTRG.15932.1	TMEM171
scaffold_4	2766668	2777386	MSTRG.15932.3	TMEM171
scaffold_4	2766738	2777386	MSTRG.15932.4	TMEM171
scaffold_4	2767315	2777386	MSTRG.15932.5	TMEM171
scaffold_4	2768271	2777386	MSTRG.15932.6	TMEM171
scaffold_4	53992467	53992868	MSTRG.16257.1	TMEM173
scaffold_4	40825573	40932709	MSTRG.16153.1	TNFAIP8
scaffold_4	64218686	64249984	MSTRG.16400.3	TNFRSF13C
scaffold_4	64622940	64667240	MSTRG.16409.1	TNIP1
scaffold_4	64622973	64667240	MSTRG.16409.2	TNIP1
scaffold_4	64622973	64667240	MSTRG.16409.3	TNIP1
scaffold_4	2501438	2583019	TNPO1_g16553.t1	TNPO1
scaffold_4	89126713	89159126	TOP2B_g17185.t1	TOP2B
scaffold_4	608502	615665	TRI11_g16512.t1	TRI11
scaffold_4	616794	621516	TRI17_g16513.t1	TRI17
scaffold_4	37218225	37247759	TRI36_g16719.t1	TRIM36
scaffold_4	90529856	90538365	TRI41_g17203.t1	TRI41
scaffold_4	90530201	90538365	MSTRG.16602.2	TRIM41
scaffold_4	90535402	90540354	MSTRG.16602.3	TRIM41
scaffold_4	90504842	90505090	MSTRG.16598.1	TRIM7
scaffold_4	90505683	90514871	TRIM7_g17202.t1	TRIM7
scaffold_4	33972189	33977123	TSLP_g16707.t1	TSLP
scaffold_4	8507640	8551622	TSP4_g16608.t1	THBS4
scaffold_4	86281964	86292561	MSTRG.16528.1	TSPAN17
scaffold_4	71938234	71961877	MSTRG.16458.1	TTC1

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scaffold_4	21068530	21149844	MSTRG.16055.2	SKIC3
scaffold_4	21090038	21107428	MSTRG.16055.4	SKIC3
scaffold_4	21129820	21132331	MSTRG.16055.5	SKIC3
scaffold_4	21072874	21140209	TTC37_g16654.t1	SKIC3
scaffold_4	59695659	59695872	MSTRG.16360.1	TULP3
scaffold_4	53975469	53992142	TXD15_g16829.t1	TXD15
scaffold_4	4950913	4952632	MSTRG.15952.2	TYK2
scaffold_4	57960099	58010845	UB2D2_g16880.t1	UB2D2
scaffold_4	71320697	71339552	UBCP1_g17048.t1	UBCP1
scaffold_4	53564043	53583933	MSTRG.16249.1	UBE2B
scaffold_4	53564172	53581699	UBE2B_g16819.t1	UBE2B
scaffold_4	71339610	71340411	MSTRG.16457.1	UBLCP1
scaffold_4	5988119	6004441	MSTRG.15959.1	UBOX5
scaffold_4	82551483	82610368	UBTD2_g17100.t1	UBTD2
scaffold_4	86424997	86485670	UNC5A_g17136.t1	UNC5A
scaffold_4	67107477	67108397	AIDA_g17016.t1	UQCC6
scaffold_4	52215970	52217184	MSTRG.16227.2	UQCRQ
scaffold_4	52215939	52217184	MSTRG.16227.1	UQCRQ
scaffold_4	3153080	3171053	MSTRG.15935.1	UTP15
scaffold_4	3153094	3171053	MSTRG.15935.2	UTP15
scaffold_4	3155998	3171053	UTP15_g16560.t1	UTP15
scaffold_4	10233615	10254755	VAS1L_g16623.t1	ATP6AP1L
scaffold_4	11177795	11282937	MSTRG.16012.1	VCAN
scaffold_4	53236556	53250779	VDAC1_g16814.t1	VDAC1
scaffold_4	53235438	53261087	MSTRG.16233.1	VDAC1
scaffold_4	6303584	6347328	WDR41_g16589.t1	WDR41
scaffold_4	58950407	58955319	WDR55_g16899.t1	WDR55
scaffold_4	56756373	56760745	WNT8A_g16855.t1	WNT8A
scaffold_4	229192	250412	WNT9A_g16503.t1	WNT9A
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scaffold_4	91191163	91205178	MSTRG.16606.1	YIP5
scaffold_4	91191163	91205178	MSTRG.16606.2	YIP5
scaffold_4	91191578	91205178	MSTRG.16606.3	YIP5
scaffold_4	91191583	91205178	MSTRG.16606.4	YIP5
scaffold_4	91195846	91203516	MSTRG.16606.6	YIP5
scaffold_4	91192388	91204443	YIPF5_g17212.t1	YIPF5
scaffold_4	36013020	36088477	YTDC2_g16717.t1	YTDC2
scaffold_4	36074651	36089651	MSTRG.16132.2	YTHDC2
scaffold_4	88120131	88137298	Z354A_g17173.t1	ZNF354A
scaffold_4	88426441	88494526	Z354C_g17179.t1	Z354C
scaffold_4	5992324	5993013	ZBED3_g16584.t1	ZBED3
scaffold_4	72230779	72244229	MSTRG.16465.1	FAM200C

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scaffold_4	71985432	71989131	ZBTB5_g17053.t1	ZBTB5
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scaffold_4	9434578	9446851	MSTRG.16003.1	ZCCHC9
scaffold_4	9434580	9446851	MSTRG.16003.2	ZCCHC9
scaffold_4	52335839	52355871	ZCH10_g16810.t1	ZCCHC10
scaffold_4	90262488	90282299	ZEB1_g17199.t1	ZEB1
scaffold_4	88317762	88329280	ZFP69_g17174.t1	ZFP2
scaffold_4	90295635	90308323	MSTRG.16594.3	ZFP62
scaffold_4	8787977	8824377	ZFY16_g16611.t1	ZFYVE16
scaffold_4	8774197	8869745	MSTRG.15991.1	ZFYVE16
scaffold_4	8787977	8824377	MSTRG.15991.6	ZFYVE16
scaffold_4	8787977	8824377	MSTRG.15991.7	ZFYVE16
scaffold_4	58985336	58993095	ZMAT2_g16903.t1	ZMAT2
scaffold_4	58985123	58993095	ZMAT2_g16903.t2	ZMAT2
scaffold_4	64519418	64522650	ZN300_g16997.t1	ZNF300
scaffold_4	86660245	86692870	ZN346_g17139.t1	ZNF346
scaffold_4	819410	847577	ZN496_g16521.t1	ZNF496
scaffold_4	45370490	45467649	ZN608_g16759.t1	ZNF608
scaffold_4	72041707	72041913	MSTRG.16459.1	ZNF157
scaffold_4	6208029	6209627	MSTRG.15963.1	ZNF266
scaffold_4	64527813	64529086	MSTRG.16407.1	ZNF300
scaffold_4	86660208	86697043	MSTRG.16534.1	ZNF346
scaffold_4	86660208	86697043	MSTRG.16534.2	ZNF346
scaffold_4	86660245	86697043	MSTRG.16534.3	ZNF346
scaffold_4	86660245	86697043	MSTRG.16534.4	ZNF346
scaffold_4	86660245	86697043	MSTRG.16534.5	ZNF346
scaffold_4	88115159	88137298	MSTRG.16566.1	ZNF354A
scaffold_4	88115159	88137298	MSTRG.16566.2	ZNF354A
scaffold_4	88234460	88264154	MSTRG.16569.1	ZNF354A
scaffold_4	88234460	88264154	MSTRG.16569.2	ZNF354A
scaffold_4	42304749	42305017	MSTRG.16160.1	ZNF385B
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scaffold_4	817150	849957	MSTRG.15905.2	ZNF496
scaffold_4	2351910	2352185	MSTRG.15921.1	ZNF709
scaffold_4	2740469	2740888	MSTRG.15930.1	ZNF709
scaffold_4	88436830	88437618	MSTRG.16570.2	ZNF879
scaffold_40	12326717	12331617	AB17A_g17600.t1	ABHD17A
scaffold_40	11643159	11658963	ABCA7_g17572.t1	ABCA7
scaffold_40	11641817	11656166	MSTRG.16886.1	ABCA7
scaffold_40	11641839	11658963	MSTRG.16886.2	ABCA7
scaffold_40	11641839	11658963	MSTRG.16886.3	ABCA7
scaffold_40	12326367	12335329	MSTRG.16918.1	ABHD17C
scaffold_40	15799521	15816630	ACER1_g17725.t1	ACER1
scaffold_40	8543664	8546926	MSTRG.16814.1	ACTL9

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scaffold_40	608940	609176	ADCY5_g17261.t1	ADCY5
scaffold_40	16355762	16363897	MSTRG.17042.1	ADGRE1
scaffold_40	8684682	8684959	MSTRG.16817.1	ADGRE2
scaffold_40	8411241	8413310	MSTRG.16804.1	ADGRE4P
scaffold_40	16414807	16415026	MSTRG.17046.1	ADGRE4P
scaffold_40	16418706	16421330	MSTRG.17048.1	ADGRE4P
scaffold_40	3865945	3866145	MSTRG.16713.1	ADGRF2
scaffold_40	199192	236967	MSTRG.16626.1	ADGRL1
scaffold_40	199287	236967	MSTRG.16626.2	ADGRL1
scaffold_40	199414	241436	MSTRG.16626.3	ADGRL1
scaffold_40	13479167	13486948	MSTRG.16958.1	TLE5
scaffold_40	16419013	16421330	AGRE4_g17747.t1	ADGRE4P
scaffold_40	87516	102258	AGRE5_g17238.t1	ADGRE5
scaffold_40	12805215	12825145	MSTRG.16936.3	AKAP5
scaffold_40	15845178	15846977	ALKB7_g17727.t1	ALKBH7
scaffold_40	5926168	5926372	MSTRG.16770.1	ALPK2
scaffold_40	10272320	10277364	ANGL4_g17511.t1	ANGPTL4
scaffold_40	5127557	5130550	ANGL6_g17365.t1	ANGPTL6
scaffold_40	1542382	1601527	MSTRG.16675.1	ANXA1
scaffold_40	4796377	4804492	AP1M2_g17343.t1	AP1M2
scaffold_40	12510481	12550925	AP3D1_g17609.t1	AP3D1
scaffold_40	13968503	13974031	APBA3_g17664.t1	APBA3
scaffold_40	13968381	13974821	MSTRG.16976.1	APBA3
scaffold_40	13968388	13974821	MSTRG.16976.2	APBA3
scaffold_40	13974032	13974821	ADCY1_g17665.t1	APBB3
scaffold_40	10947826	11002692	MSTRG.16863.1	ARHGEF18
scaffold_40	11013438	11032190	ARHGI_g17538.t2	ARHGEF18
scaffold_40	11565467	11593559	ARI3A_g17567.t1	ARID3A
scaffold_40	11561733	11594851	MSTRG.16879.1	ARID3A
scaffold_40	253692	261875	ASF1B_g17241.t1	ASF1B
scaffold_40	256898	262492	MSTRG.16624.2	ASF1B
scaffold_40	1225329	1231513	MSTRG.16661.1	GET3
scaffold_40	1274697	1275711	ASTER_g17296.t1	WDR83OS
scaffold_40	14089020	14093174	ATCAY_g17670.t3	ATCAY
scaffold_40	4817443	4823119	ATG4D_g17346.t1	ATG4D
scaffold_40	4817532	4823119	MSTRG.16744.2	ATG4D
scaffold_40	12026736	12041107	ATL5_g17591.t1	ADAMTSL5
scaffold_40	11795460	11797772	MSTRG.16893.1	ATP5F1D
scaffold_40	12252804	12274266	MSTRG.16913.1	ATP8B3
scaffold_40	11795460	11797379	ATPD_g17579.t1	ATP5F1D
scaffold_40	14135171	14135371	ATPF2_g17675.t1	ATPAF2
scaffold_40	15910256	15910477	MSTRG.17036.1	B4GALT3
scaffold_40	11310914	11317888	BASI_g17550.t1	BSG
scaffold_40	1217967	1221564	BEST2_g17287.t1	BEST2

scaffold_40	12413322	12414371	MSTRG.16921.2	ABTB1
scaffold_40	1181469	1186173	MSTRG.16658.2	BRD3
scaffold_40	405937	421581	BRME1_g17253.t1	BRME1
scaffold_40	13534442	13535175	MSTRG.16961.1	BTBD17
scaffold_40	12414393	12436157	BTBD2_g17604.t1	BTBD2
scaffold_40	12413317	12414371	MSTRG.16921.1	BTBD2
scaffold_40	12413324	12414436	MSTRG.16921.4	BTBD2
scaffold_40	12413392	12436157	MSTRG.16922.1	BTBD2
scaffold_40	12413392	12436157	MSTRG.16922.2	BTBD2
scaffold_40	12000002	12002702	MSTRG.16905.1	C19ORF25
scaffold_40	10926176	10930462	MSTRG.16864.1	SAXO5
scaffold_40	10926176	10930462	MSTRG.16864.2	SAXO5
scaffold_40	10926228	10930462	MSTRG.16864.3	SAXO5
scaffold_40	10926273	10930462	MSTRG.16864.4	SAXO5
scaffold_40	10929956	10945635	MSTRG.16865.1	SAXO5
scaffold_40	13811895	13819450	CS071_g17655.t1	TEKTIP1
scaffold_40	13811895	13820326	CS071_g17655.t2	TEKTIP1
scaffold_40	16079224	16125262	MSTRG.17037.1	C3
scaffold_40	13865711	13879045	MSTRG.16971.1	CACTIN
scaffold_40	14420404	14447295	CAF1A_g17690.t1	CHAF1A
scaffold_40	1094840	1097971	CALR_g17274.t1	CALR
scaffold_40	10843976	10858183	CAMP3_g17532.t1	CAMSAP3
scaffold_40	15484729	15485983	MSTRG.17021.1	CAPS
scaffold_40	4558095	4595764	CARM1_g17337.t1	CARM1
scaffold_40	4558213	4595764	MSTRG.16737.2	CARM1
scaffold_40	13866504	13879045	CATIN_g17661.t1	CACTIN
scaffold_40	11784472	11792554	MSTRG.16892.1	CBARP
scaffold_40	11784800	11792554	MSTRG.16892.2	CBARP
scaffold_40	11788950	11792554	MSTRG.16892.4	CBARP
scaffold_40	390068	390654	MSTRG.16634.1	CC2D1A
scaffold_40	390838	404926	MSTRG.16635.1	CC2D1A
scaffold_40	390838	404926	MSTRG.16635.2	CC2D1A
scaffold_40	489012	500792	MSTRG.16639.1	YJU2B
scaffold_40	489024	500903	MSTRG.16639.2	YJU2B
scaffold_40	14318055	14320177	MSTRG.16990.1	YJU2
scaffold_40	16008277	16008606	CD70_g17738.t1	CD70
scaffold_40	4915587	4924081	CDC37_g17351.t1	CDC37
scaffold_40	4806684	4808227	CDN2D_g17344.t1	CDKN2D
scaffold_40	8314349	8316894	MSTRG.16793.1	CDRT15L2
scaffold_40	10350355	10357762	CERS4_g17514.t1	CERS4
scaffold_40	10350049	10378512	MSTRG.16840.1	CERS4
scaffold_40	10350050	10378512	MSTRG.16840.2	CERS4
scaffold_40	10350050	10353852	MSTRG.16840.3	CERS4
scaffold_40	11514811	11517506	MSTRG.16875.1	CFD
scaffold_40	14432490	14447295	MSTRG.16996.2	CHAF1A

scaffold_40	16204383	16204662	MSTRG.17041.1	CHRNA1
scaffold_40	16198447	16206878	CIP4_g17744.t1	TRIP10
scaffold_40	11820479	11821659	CIRBP_g17581.t1	CIRBP
scaffold_40	11819489	11827684	MSTRG.16895.1	CIRBP
scaffold_40	11819491	11827684	MSTRG.16895.2	CIRBP
scaffold_40	11819491	11827684	MSTRG.16895.3	CIRBP
scaffold_40	11819494	11827684	MSTRG.16895.4	CIRBP
scaffold_40	10788285	10792798	CLC4G_g17527.t3	CLEC4G
scaffold_40	15838665	15842934	CLPP_g17726.t1	CLPP
scaffold_40	4096592	4102278	CNN1_g17317.t1	CNN1
scaffold_40	11633237	11640190	CNN2_g17571.t1	CNN2
scaffold_40	5196124	5233042	CO5A3_g17368.t1	COL5A3
scaffold_40	14231198	14268798	CR3L3_g17679.t1	CREB3L3
scaffold_40	15912300	15914263	CRUM3_g17734.t1	CRB3
scaffold_40	4766180	4788525	CTL2_g17342.t1	SLC44A2
scaffold_40	15366191	15413475	CTSRD_g17712.t1	CATSPERD
scaffold_40	10596658	10597212	ARH40_g17520.t1	CTXN1
scaffold_40	10597216	10597464	CTXN1_g17521.t1	CTXN1
scaffold_40	10597534	10598120	MSTRG.16849.1	CTXN1
scaffold_40	14108207	14119214	DAPK3_g17673.t1	DAPK3
scaffold_40	14114330	14120433	MSTRG.16977.5	DAPK3
scaffold_40	11939494	11964716	MSTRG.16901.1	DAZAP1
scaffold_40	11939560	11964716	MSTRG.16901.2	DAZAP1
scaffold_40	11939569	11964716	MSTRG.16901.3	DAZAP1
scaffold_40	11939689	11964716	MSTRG.16901.4	DAZAP1
scaffold_40	11939689	11964716	DAZP1_g17586.t1	DAZAP1
scaffold_40	367170	374515	DCA15_g17250.t1	DCAF15
scaffold_40	15340017	15343013	DHI1L_g17710.t2	HSD11B1L
scaffold_40	15344999	15345921	DHI1L_g17710.t3	HSD11B1L
scaffold_40	1267129	1270574	DHYS_g17294.t1	DHPS
scaffold_40	13002098	13002694	DIRA1_g17627.t1	DIRAS1
scaffold_40	20026	22013	DNJB1_g17233.t1	DNAJB1
scaffold_40	4617332	4703583	MSTRG.16739.1	DNM2
scaffold_40	4617673	4703583	MSTRG.16739.2	DNM2
scaffold_40	4618225	4703583	MSTRG.16739.3	DNM2
scaffold_40	5061331	5073949	DNMT1_g17362.t2	DNMT1
scaffold_40	5068773	5069841	MSTRG.16755.4	DNMT1
scaffold_40	5074619	5101931	MSTRG.16756.1	DNMT1
scaffold_40	1138233	1140343	DNS2A_g17279.t1	DNASE2
scaffold_40	4284515	4325542	DOCK6_g17330.t1	DOCK6
scaffold_40	4284461	4325542	MSTRG.16727.1	DOCK6
scaffold_40	13772968	13778678	DOHH_g17653.t1	DOHH
scaffold_40	13772968	13781585	MSTRG.16965.1	DOHH
scaffold_40	13774222	13778795	MSTRG.16965.3	DOHH
scaffold_40	12579034	12648741	DOT1L_g17610.t1	DOT1L

scaffold_40	12621235	12630836	MSTRG.16927.2	DOT1L
scaffold_40	14605409	14635831	DPP9_g17697.t1	DPP9
scaffold_40	14601709	14643166	MSTRG.17003.1	DPP9
scaffold_40	14601709	14643166	MSTRG.17003.2	DPP9
scaffold_40	14601929	14643166	MSTRG.17003.3	DPP9
scaffold_40	14605409	14643166	MSTRG.17003.4	DPP9
scaffold_40	15418546	15423002	DUS3L_g17714.t1	DUS3L
scaffold_40	82972	86832	DX39A_g17237.t1	DX39A
scaffold_40	4618991	4703583	DYN2_g17339.t1	DNM2
scaffold_40	4118484	4126716	ECSIT_g17318.t1	ECSIT
scaffold_40	11834340	11846903	EFNA2_g17583.t1	EFNA2
scaffold_40	5112441	5116323	EIF3G_g17363.t1	EIF3G
scaffold_40	10535477	10557137	ELAV1_g17518.t1	ELAVL1
scaffold_40	10535453	10557137	ELAV1_g17518.t2	ELAVL1
scaffold_40	10522576	10557137	MSTRG.16842.1	ELAVL1
scaffold_40	4088100	4093379	MSTRG.16716.1	ELOF1
scaffold_40	15732734	15789122	ENL_g17724.t1	MLLT1
scaffold_40	10639292	10657010	EVI5L_g17524.t1	EVI5L
scaffold_40	10637763	10668779	MSTRG.16853.1	EVI5L
scaffold_40	10639475	10640180	MSTRG.16853.3	EVI5L
scaffold_40	4985162	4989177	MSTRG.16753.1	FDX2
scaffold_40	4985439	4989177	MSTRG.16753.3	FDX2
scaffold_40	4985316	4989177	FDX2_g17355.t1	FDX2
scaffold_40	14716802	14718793	FEM1A_g17698.t1	FEM1A
scaffold_40	4924535	4926012	MSTRG.16749.1	FGF1
scaffold_40	14102890	14104910	FRIL_g17672.t1	FTL
scaffold_40	14353399	14363925	FSD1_g17686.t1	FSD1
scaffold_40	11389529	11396662	FSTL3_g17555.t1	FSTL3
scaffold_40	11390896	11396662	MSTRG.16874.2	FSTL3
scaffold_40	15875680	15887129	FUBP2_g17731.t1	KHSRP
scaffold_40	5342326	5348407	FXL12_g17372.t1	FBXL12
scaffold_40	5346575	5348407	FXL12_g17373.t1	FBXL12
scaffold_40	13801914	13809872	FZR1_g17654.t1	FZR1
scaffold_40	1084327	1086222	G45IP_g17272.t1	G45IP
scaffold_40	12837643	12838899	GA45B_g17625.t1	GA45B
scaffold_40	12837451	12840472	MSTRG.16934.1	GADD45B
scaffold_40	1086239	1093657	MSTRG.16651.1	GADD45GIP1
scaffold_40	11931911	11933148	GAMT_g17585.t1	GAMT
scaffold_40	11931240	11934401	MSTRG.16900.1	GAMT
scaffold_40	1123739	1129142	GCDH_g17277.t1	GCDH
scaffold_40	1121945	1129293	MSTRG.16655.1	GCDH
scaffold_40	1225622	1231513	GET3_g17288.t1	GET3
scaffold_40	40247	43977	GIPC1_g17234.t1	GIPC1
scaffold_40	34465	43977	MSTRG.16619.1	GIPC1
scaffold_40	4162855	4176307	GLU2B_g17321.t1	GLU2B

scaffold_40	13512208	13533138	GNA11_g17643.t1	GNA11
scaffold_40	13542269	13561748	GNA15_g17644.t1	GNA15
scaffold_40	12864227	12997059	MSTRG.16937.1	GNG7
scaffold_40	16189704	16196258	GP108_g17743.t1	GPR108
scaffold_40	16189350	16195996	MSTRG.17039.1	GPR108
scaffold_40	11688244	11690492	MSTRG.16889.1	GPX4
scaffold_40	15850873	15860378	MSTRG.17031.1	GTF2F1
scaffold_40	2293461	2327160	MSTRG.16687.3	GTPBP2
scaffold_40	11323882	11344807	HCN2_g17551.t1	HCN2
scaffold_40	14468396	14490455	MSTRG.16998.1	HDGFL2
scaffold_40	14468402	14490455	MSTRG.16998.2	HDGFL2
scaffold_40	14468493	14490455	MSTRG.16998.4	HDGFL2
scaffold_40	14468493	14490455	MSTRG.16998.3	HDGFL3
scaffold_40	14468493	14490455	HDGR2_g17692.t1	HDGFL2
scaffold_40	13836272	13838072	HM20B_g17657.t1	HM20B
scaffold_40	13838775	13841637	HM20B_g17657.t2	HM20B
scaffold_40	13838357	13841637	MSTRG.16970.1	HMG20B
scaffold_40	11660493	11673272	HMHA1_g17573.t1	HMHA1
scaffold_40	10191253	10231056	MSTRG.16834.4	HNRNPM
scaffold_40	10191249	10231056	MSTRG.16834.1	HNRNPM
scaffold_40	10191249	10231056	MSTRG.16834.2	HNRNPM
scaffold_40	10191249	10231056	MSTRG.16834.3	HNRNPM
scaffold_40	10191311	10231056	MSTRG.16834.5	HNRNPM
scaffold_40	10191311	10231056	MSTRG.16834.6	HNRNPM
scaffold_40	10191552	10231056	HNRPM_g17508.t1	HNRNPM
scaffold_40	1205858	1215851	HOOK2_g17286.t1	HOOK2
scaffold_40	15338340	15342278	MSTRG.17016.1	HSD11B1L
scaffold_40	308042	322235	I27RA_g17247.t1	IL27RA
scaffold_40	5005160	5012033	ICAM1_g17359.t1	ICAM1
scaffold_40	4964094	4970016	ICAM3_g17353.t1	ICAM3
scaffold_40	4994792	5000999	ICAM5_g17357.t1	ICAM5
scaffold_40	8325297	8330268	MSTRG.16794.2	IDUA
scaffold_40	923850	924742	IER2_g17265.t1	IER2
scaffold_40	14828621	14964373	MSTRG.17007.3	MTIF2
scaffold_40	1181469	1187904	MSTRG.16658.1	IF2
scaffold_40	1181476	1191894	MSTRG.16658.3	IF2
scaffold_40	10522658	10557137	MSTRG.16842.3	IF2
scaffold_40	14828621	14964373	MSTRG.17007.2	IF2
scaffold_40	12378065	12405030	MSTRG.16920.1	IFITM10
scaffold_40	4729939	4744905	ILF3_g17341.t1	ILF3
scaffold_40	4725993	4756065	MSTRG.16741.1	ILF3
scaffold_40	4726310	4756065	MSTRG.16741.2	ILF3
scaffold_40	4729939	4756065	MSTRG.16741.3	ILF3
scaffold_40	4733131	4756065	MSTRG.16741.5	ILF3
scaffold_40	5061583	5071812	MSTRG.16755.3	INIP

scaffold_40	11074765	11092561	MSTRG.16861.1	INSR
scaffold_40	1087325	1093657	MSTRG.16651.2	IQSEC3
scaffold_40	12505197	12507644	IZUM4_g17608.t1	IZUM4
scaffold_40	12667989	12670922	JSPR1_g17614.t1	JSPR1
scaffold_40	1193422	1194465	JUNB_g17285.t1	JUNB
scaffold_40	15861005	15873719	KAD1_g17730.t1	AK1
scaffold_40	10300933	10312583	KANK3_g17512.t1	KANK3
scaffold_40	10313784	10320369	KANK3_g17512.t2	KANK3
scaffold_40	10323442	10327476	KANK3_g17512.t3	KANK3
scaffold_40	4326468	4348438	MSTRG.16728.1	KANK3
scaffold_40	10310239	10312583	MSTRG.16836.2	KANK3
scaffold_40	264572	280128	KAPCA_g17242.t1	PRKACA
scaffold_40	12396711	12405030	KC1G2_g17603.t1	CSNK1G2
scaffold_40	12396660	12405030	KC1G2_g17603.t2	CSNK1G2
scaffold_40	14828544	14963094	KDM4B_g17703.t1	KDM4B
scaffold_40	4850131	4856275	KEAP1_g17348.t1	KEAP1
scaffold_40	4850038	4856275	KEAP1_g17348.t2	KEAP1
scaffold_40	4847611	4856275	MSTRG.16745.2	KEAP1
scaffold_40	4847611	4856275	MSTRG.16745.1	KEAP1
scaffold_40	15874616	15887129	MSTRG.17032.4	KHSRP
scaffold_40	15874816	15887129	MSTRG.17032.5	KHSRP
scaffold_40	15874304	15887129	MSTRG.17032.1	KHSRP
scaffold_40	15874615	15887129	MSTRG.17032.2	KHSRP
scaffold_40	15874615	15887129	MSTRG.17032.3	KHSRP
scaffold_40	12306441	12306824	KLF16_g17598.t1	KLF16
scaffold_40	4809304	4817437	KRI1_g17345.t1	KRI1
scaffold_40	479329	482095	L10K_g17256.t1	C19ORF53
scaffold_40	10593221	10593527	MSTRG.16845.1	LACTBL1
scaffold_40	12808333	12825145	LMNB2_g17624.t1	LMNB2
scaffold_40	15364854	15369512	MSTRG.17019.1	LONP1
scaffold_40	12725198	12730424	LSM7_g17619.t1	LSM7
scaffold_40	9918876	9921874	MSTRG.16829.3	LTA
scaffold_40	961556	964666	LYL1_g17269.t1	LYL1
scaffold_40	964018	964390	MSTRG.16647.1	LYL1
scaffold_40	1277187	1291406	MA2B1_g17297.t1	MAN2B1
scaffold_40	11263669	11268067	MADCA_g17546.t1	MADCAM1
scaffold_40	1277182	1291406	MSTRG.16668.1	MAN2B1
scaffold_40	1284969	1286871	MSTRG.16668.3	MAN2B1
scaffold_40	10606811	10616957	MSTRG.16851.2	MAP2K7
scaffold_40	10606811	10616957	MSTRG.16851.1	MAP2K7
scaffold_40	10233891	10247117	MSTRG.16833.1	MARCH2
scaffold_40	10234727	10242588	MARH2_g17509.t1	MARH2
scaffold_40	13985803	13991510	MATK_g17668.t1	MATK
scaffold_40	8503332	8506265	MSTRG.16808.1	MBD3
scaffold_40	12082465	12085822	MSTRG.16909.1	MBD3

scaffold_40	12086990	12093735	MSTRG.16910.1	MBD3
scaffold_40	12086990	12093735	MSTRG.16910.2	MBD3
scaffold_40	11619414	11627750	MBRL_g17570.t1	MBRL
scaffold_40	10906139	10914428	MCLN1_g17534.t1	MCOLN1
scaffold_40	11521760	11536127	MED16_g17565.t1	MED16
scaffold_40	11521147	11537983	MSTRG.16877.3	MED16
scaffold_40	11520962	11537983	MSTRG.16877.1	MED16
scaffold_40	11520962	11537738	MSTRG.16877.2	MED16
scaffold_40	12066393	12074034	MEX3D_g17593.t1	MEX3D
scaffold_40	12065541	12074034	MSTRG.16908.2	MEX3D
scaffold_40	12065543	12074034	MSTRG.16908.4	MEX3D
scaffold_40	12065534	12074034	MSTRG.16908.1	MEX3D
scaffold_40	12065543	12074034	MSTRG.16908.3	MEX3D
scaffold_40	13820377	13829454	MFS12_g17656.t1	MFSD12
scaffold_40	13820068	13825379	MSTRG.16968.1	MFSD12
scaffold_40	15336000	15337565	MIC13_g17709.t1	MIC13
scaffold_40	11800932	11810181	MSTRG.16894.2	MIDN
scaffold_40	11803363	11810181	MSTRG.16894.5	MIDN
scaffold_40	11802557	11810181	MIDN_g17580.t1	MIDN
scaffold_40	11800898	11810181	MSTRG.16894.1	MIDN
scaffold_40	11802602	11810181	MSTRG.16894.4	MIDN
scaffold_40	11137757	11168044	MIER2_g17540.t1	MIER2
scaffold_40	12665089	12667318	MIS_g17613.t1	MIS
scaffold_40	12665089	12667737	MIS_g17613.t2	MIS
scaffold_40	11440432	11445474	MISP_g17559.t1	MISP
scaffold_40	292997	294387	MISP3_g17245.t1	MISP3
scaffold_40	15730056	15789122	MSTRG.17028.2	MLLT1
scaffold_40	15730046	15789122	MSTRG.17028.1	MLLT1
scaffold_40	12485462	12492408	MOB3A_g17606.t1	MOB3A
scaffold_40	12484055	12504611	MSTRG.16925.1	MOB3C
scaffold_40	14212197	14236357	MP2K2_g17678.t1	MP2K2
scaffold_40	10609091	10616957	MP2K7_g17522.t2	MAP2K7
scaffold_40	14375962	14385091	MPND_g17688.t1	MPND
scaffold_40	14376168	14384631	MSTRG.16994.2	MPND
scaffold_40	483259	487967	MSTRG.16638.2	MRI1
scaffold_40	483251	487967	MSTRG.16638.1	MRI1
scaffold_40	5019980	5028749	MSTRG.16754.1	MRPL4
scaffold_40	5019980	5028749	MSTRG.16754.2	MRPL4
scaffold_40	14338958	14339245	MSTRG.16992.1	MRPS17
scaffold_40	12081673	12081905	MSTRG.16907.1	MSX3
scaffold_40	483348	487967	MTNA_g17257.t1	MRI1
scaffold_40	8298723	8313887	MSTRG.16791.2	MUC16
scaffold_40	8306878	8310343	MSTRG.16792.1	MUC16
scaffold_40	8488391	8489691	MSTRG.16805.1	MUC16
scaffold_40	8232304	8306396	MUC16_g17473.t1	MUC16

scaffold_40	14588747	14599159	MYDGF_g17696.t1	MYDGF
scaffold_40	14585237	14599159	MSTRG.17001.1	MYDGF
scaffold_40	10155976	10171294	MSTRG.16831.1	MYO1F
scaffold_40	10138286	10169297	MYO1F_g17505.t1	MYO1F
scaffold_40	934503	937254	NACC1_g17267.t1	NACC1
scaffold_40	931936	950026	MSTRG.16645.1	NACC1
scaffold_40	13576735	13594506	NCLN_g17646.t1	NCLN
scaffold_40	15473715	15479420	NDUAB_g17717.t1	NDFA11
scaffold_40	8559991	8563865	NDUB7_g17479.t1	NDUFB7
scaffold_40	11923228	11930373	NDUS7_g17584.t1	NDUS7
scaffold_40	13703914	13758907	MSTRG.16964.4	NFIC
scaffold_40	13698293	13758907	MSTRG.16964.1	NFIC
scaffold_40	13698307	13756656	MSTRG.16964.2	NFIC
scaffold_40	13703876	13758907	MSTRG.16964.3	NFIC
scaffold_40	966183	1058736	MSTRG.16649.1	NFIX
scaffold_40	972155	1031572	NFIX_g17270.t1	NFIX
scaffold_40	11103825	11104079	MSTRG.16862.1	NLGN4X
scaffold_40	11613644	11618603	NMD3B_g17569.t2	NMD3B
scaffold_40	5249746	5308349	NOE2_g17369.t1	NOE2
scaffold_40	1238572	1238936	BPHL_g17290.t1	BPHL_g17290.t1
scaffold_40	15914788	15923527	DEN1C_g17735.t1	DEN1C_g17735.t1
scaffold_40	549158	549383	MSTRG.16642.1	MSTRG.16642.1
scaffold_40	4113067	4126716	MSTRG.16719.2	MSTRG.16719.2
scaffold_40	4113089	4126716	MSTRG.16719.4	MSTRG.16719.4
scaffold_40	4926468	4930320	MSTRG.16750.1	MSTRG.16750.1
scaffold_40	5356276	5371782	MSTRG.16765.1	MSTRG.16765.1
scaffold_40	5356299	5371782	MSTRG.16765.2	MSTRG.16765.2
scaffold_40	5356300	5371782	MSTRG.16765.3	MSTRG.16765.3
scaffold_40	6504261	6504463	MSTRG.16778.1	MSTRG.16778.1
scaffold_40	6842882	6843098	MSTRG.16788.1	MSTRG.16788.1
scaffold_40	8376052	8381466	MSTRG.16802.1	MSTRG.16802.1
scaffold_40	9891195	9893301	MSTRG.16826.1	MSTRG.16826.1
scaffold_40	11310914	11318629	MSTRG.16869.1	MSTRG.16869.1
scaffold_40	11640625	11640897	MSTRG.16883.1	MSTRG.16883.1
scaffold_40	14102376	14120433	MSTRG.16977.2	MSTRG.16977.2
scaffold_40	14068200	14068417	MSTRG.16981.1	MSTRG.16981.1
scaffold_40	14564304	14564507	MSTRG.16999.1	MSTRG.16999.1
scaffold_40	16424840	16425055	MSTRG.17047.1	MSTRG.17047.1
scaffold_40	16429354	16429571	MSTRG.17049.1	MSTRG.17049.1
scaffold_40	180994	181218	MSTRG.16620.1	NOTHING
scaffold_40	70943	86832	MSTRG.16622.1	NOTHING
scaffold_40	447788	448015	MSTRG.16632.1	NOTHING
scaffold_40	453322	453544	MSTRG.16633.1	NOTHING
scaffold_40	544502	544729	MSTRG.16640.1	NOTHING
scaffold_40	545277	545491	MSTRG.16641.1	NOTHING

scaffold_40	1236876	1237097	MSTRG.16663.1	NOTHING
scaffold_40	1475599	1475882	MSTRG.16671.1	NOTHING
scaffold_40	1476518	1476888	MSTRG.16672.1	NOTHING
scaffold_40	1682336	1682552	MSTRG.16677.1	NOTHING
scaffold_40	1632719	1665456	MSTRG.16678.1	NOTHING
scaffold_40	1759091	1759316	MSTRG.16680.1	NOTHING
scaffold_40	1852308	1859361	MSTRG.16682.1	NOTHING
scaffold_40	2084137	2095461	MSTRG.16685.1	NOTHING
scaffold_40	2087410	2087618	MSTRG.16686.1	NOTHING
scaffold_40	2343935	2512565	MSTRG.16690.1	NOTHING
scaffold_40	2356822	2364150	MSTRG.16691.1	NOTHING
scaffold_40	2903862	2906370	MSTRG.16699.1	NOTHING
scaffold_40	3062460	3062684	MSTRG.16702.1	NOTHING
scaffold_40	3896772	3981983	MSTRG.16714.1	NOTHING
scaffold_40	4104237	4104445	MSTRG.16718.1	NOTHING
scaffold_40	4113067	4126716	MSTRG.16719.1	NOTHING
scaffold_40	4113085	4126716	MSTRG.16719.3	NOTHING
scaffold_40	4128408	4129073	MSTRG.16721.1	NOTHING
scaffold_40	4365538	4366395	MSTRG.16730.1	NOTHING
scaffold_40	4365547	4366395	MSTRG.16730.2	NOTHING
scaffold_40	4859601	4859802	MSTRG.16746.1	NOTHING
scaffold_40	5117892	5118130	MSTRG.16759.1	NOTHING
scaffold_40	5473777	5474012	MSTRG.16766.1	NOTHING
scaffold_40	5517448	5519648	MSTRG.16767.2	NOTHING
scaffold_40	5717054	5717428	MSTRG.16769.1	NOTHING
scaffold_40	6082321	6082544	MSTRG.16774.1	NOTHING
scaffold_40	6083936	6084160	MSTRG.16775.1	NOTHING
scaffold_40	6647149	6670454	MSTRG.16781.1	NOTHING
scaffold_40	7279397	7279609	MSTRG.16784.1	NOTHING
scaffold_40	6692248	6704839	MSTRG.16786.1	NOTHING
scaffold_40	6699746	6709163	MSTRG.16786.2	NOTHING
scaffold_40	7382692	7383009	MSTRG.16787.1	NOTHING
scaffold_40	7872707	7872952	MSTRG.16789.1	NOTHING
scaffold_40	8331637	8332080	MSTRG.16796.1	NOTHING
scaffold_40	8348704	8348990	MSTRG.16798.1	NOTHING
scaffold_40	8349363	8349596	MSTRG.16799.1	NOTHING
scaffold_40	8350592	8351011	MSTRG.16800.1	NOTHING
scaffold_40	8375284	8381379	MSTRG.16801.1	NOTHING
scaffold_40	8376052	8383527	MSTRG.16801.2	NOTHING
scaffold_40	8377007	8384280	MSTRG.16802.2	NOTHING
scaffold_40	8408792	8410575	MSTRG.16803.1	NOTHING
scaffold_40	8490024	8494632	MSTRG.16806.1	NOTHING
scaffold_40	8494701	8502996	MSTRG.16807.1	NOTHING
scaffold_40	8521236	8530468	MSTRG.16811.1	NOTHING
scaffold_40	8685857	8686238	MSTRG.16818.1	NOTHING

scaffold_40	8626111	8626315	MSTRG.16821.1	NOTHING
scaffold_40	9866309	9890015	MSTRG.16822.1	NOTHING
scaffold_40	9881183	9886674	MSTRG.16823.1	NOTHING
scaffold_40	9887186	9888611	MSTRG.16824.1	NOTHING
scaffold_40	9891246	9893301	MSTRG.16826.2	NOTHING
scaffold_40	9891416	9892146	MSTRG.16827.1	NOTHING
scaffold_40	9893455	9895031	MSTRG.16828.1	NOTHING
scaffold_40	9893458	9895031	MSTRG.16828.2	NOTHING
scaffold_40	9893463	9895031	MSTRG.16828.3	NOTHING
scaffold_40	9895253	9921874	MSTRG.16829.1	NOTHING
scaffold_40	9901536	9918870	MSTRG.16829.2	NOTHING
scaffold_40	10558671	10558955	MSTRG.16841.1	NOTHING
scaffold_40	10537020	10538004	MSTRG.16843.1	NOTHING
scaffold_40	11369915	11379320	MSTRG.16872.1	NOTHING
scaffold_40	11369930	11379320	MSTRG.16872.2	NOTHING
scaffold_40	11370031	11375553	MSTRG.16872.3	NOTHING
scaffold_40	11434549	11445474	MSTRG.16873.1	NOTHING
scaffold_40	11771102	11771544	MSTRG.16891.1	NOTHING
scaffold_40	11936802	11937015	MSTRG.16898.1	NOTHING
scaffold_40	11970552	11970778	MSTRG.16903.1	NOTHING
scaffold_40	12323224	12325498	MSTRG.16915.1	NOTHING
scaffold_40	12304353	12304711	MSTRG.16916.1	NOTHING
scaffold_40	12474056	12474617	MSTRG.16923.1	NOTHING
scaffold_40	12851519	12851729	MSTRG.16933.1	NOTHING
scaffold_40	13072615	13072919	MSTRG.16940.1	NOTHING
scaffold_40	13061128	13061349	MSTRG.16942.1	NOTHING
scaffold_40	13063376	13063740	MSTRG.16943.1	NOTHING
scaffold_40	13191251	13191468	MSTRG.16948.1	NOTHING
scaffold_40	13279641	13279841	MSTRG.16950.1	NOTHING
scaffold_40	13250202	13278709	MSTRG.16951.1	NOTHING
scaffold_40	13297053	13297280	MSTRG.16953.1	NOTHING
scaffold_40	13492897	13493361	MSTRG.16959.1	NOTHING
scaffold_40	13576588	13594938	MSTRG.16962.1	NOTHING
scaffold_40	13787881	13809872	MSTRG.16966.1	NOTHING
scaffold_40	14002132	14002347	MSTRG.16974.1	NOTHING
scaffold_40	13941448	13959728	MSTRG.16975.1	NOTHING
scaffold_40	14100602	14120433	MSTRG.16977.1	NOTHING
scaffold_40	14171888	14192222	MSTRG.16985.1	NOTHING
scaffold_40	14333126	14333595	MSTRG.16989.1	NOTHING
scaffold_40	14333938	14334213	MSTRG.16991.1	NOTHING
scaffold_40	15296179	15296459	MSTRG.17014.1	NOTHING
scaffold_40	15382777	15382991	MSTRG.17020.1	NOTHING
scaffold_40	15706421	15708713	MSTRG.17026.1	NOTHING
scaffold_40	15897998	15898277	MSTRG.17034.1	NOTHING
scaffold_40	16377774	16378442	MSTRG.17043.1	NOTHING

scaffold_40	16381303	16381563	MSTRG.17044.1	NOTHING
scaffold_40	16382573	16384681	MSTRG.17045.1	NOTHING
scaffold_40	8512591	8517904	MSTRG.16809.2	NOX
scaffold_40	8512588	8517904	MSTRG.16809.1	NOXA1
scaffold_40	8512591	8517904	MSTRG.16809.3	NOXA1
scaffold_40	12681673	12687600	OAZ1_g17615.t2	OAZ1
scaffold_40	8337107	8337370	OC90_g17474.t1	OC90
scaffold_40	4177354	4184743	ODAD3_g17322.t1	ODAD3
scaffold_40	6528311	6529231	OR7D4_g17396.t1	OR7D4
scaffold_40	7193535	7194500	OR7D4_g17425.t1	OR7D4
scaffold_40	6334691	6337354	MSTRG.16777.1	OSBPL9
scaffold_40	301730	307207	PALM3_g17246.t1	PALM3
scaffold_40	9967174	9967544	MSTRG.16825.1	PARP3
scaffold_40	13759176	13759467	MSTRG.16963.1	PBRM1
scaffold_40	12000515	12002377	PCSK4_g17589.t1	PCSK4
scaffold_40	12006198	12013542	PCSK4_g17589.t2	PCSK4
scaffold_40	10937726	10945635	MSTRG.16865.3	PEX11G
scaffold_40	9118244	9118582	MSTRG.16819.1	PGBP
scaffold_40	8227520	8228275	PHC3_g17469.t1	PHC3
scaffold_40	14147038	14171466	PIAS4_g17676.t1	PIAS4
scaffold_40	5313128	5326403	PIN1_g17370.t1	PIN1
scaffold_40	13880933	13938063	MSTRG.16972.2	PIP5K1C
scaffold_40	13880933	13938063	MSTRG.16972.1	PIP5K1C
scaffold_40	49655	71962	MSTRG.16621.1	PKN1
scaffold_40	49779	70636	PKN1_g17236.t1	PKN1
scaffold_40	12648831	12653685	MSTRG.16928.1	PLEKHJ1
scaffold_40	12649599	12653685	MSTRG.16928.2	PLEKHJ1
scaffold_40	14747667	14767962	MSTRG.17005.2	PLIN3
scaffold_40	14748143	14765803	PLIN3_g17700.t1	PLIN3
scaffold_40	10885399	10904282	PLPL6_g17533.t1	PLPL6
scaffold_40	4215272	4228422	MSTRG.16725.1	PLPPR2
scaffold_40	4215272	4219954	PLPR2_g17326.t1	PLPPR2
scaffold_40	4215272	4219954	PLPR2_g17326.t2	PLPPR2
scaffold_40	10894061	10900547	MSTRG.16859.4	PNPLA6
scaffold_40	10885201	10905807	MSTRG.16859.1	PNPLA6
scaffold_40	10885205	10891240	MSTRG.16859.2	PNPLA6
scaffold_40	24053	24256	MSTRG.16618.1	POLR2D
scaffold_40	11677387	11683629	MSTRG.16885.1	POLR2E
scaffold_40	11692057	11743290	MSTRG.16888.1	POLR2E
scaffold_40	385188	389465	PONL1_g17251.t2	PONL1
scaffold_40	4080495	4082177	PPA5_g17316.t1	PPA5
scaffold_40	14123987	14124268	MSTRG.16979.1	PPP6R3
scaffold_40	10181753	10190095	PRAM_g17507.t1	PRAM1
scaffold_40	918597	923849	XIRP2_g17264.t1	PRB1
scaffold_40	922873	926312	MSTRG.16643.2	PRB1

scaffold_40	1188000	1190793	MSTRG.16659.1	PRDX2
scaffold_40	1189946	1190441	MSTRG.16660.1	PRDX2
scaffold_40	1188584	1190793	PRDX2_g17284.t1	PRDX2
scaffold_40	280341	281487	MSTRG.16629.1	PRKACA
scaffold_40	4162433	4176777	MSTRG.16722.1	PRKCSH
scaffold_40	11475685	11487647	MSTRG.16876.1	PTBP1
scaffold_40	15005505	15066250	MSTRG.17009.2	PTPRS
scaffold_40	15005506	15066250	MSTRG.17009.3	PTPRS
scaffold_40	15005506	15066250	MSTRG.17009.4	PTPRS
scaffold_40	11897132	11919718	MSTRG.16897.1	PWWP3A
scaffold_40	11898507	11919718	MSTRG.16897.2	PWWP3A
scaffold_40	11898621	11919718	MSTRG.16897.3	PWWP3A
scaffold_40	10937682	10945635	PX11C_g17537.t1	PX11C
scaffold_40	11542370	11550240	R3HD4_g17566.t1	R3HD4
scaffold_40	11541457	11550240	MSTRG.16880.1	R3HDM4
scaffold_40	4232320	4242966	MSTRG.16724.1	RAB3D
scaffold_40	4229244	4230926	RAB3D_g17328.t1	RAB3D
scaffold_40	4233846	4240750	RAB3D_g17328.t2	RAB3D
scaffold_40	15488033	15539343	RANB3_g17720.t1	RANBP3
scaffold_40	15486042	15539343	MSTRG.17022.1	RANBP3
scaffold_40	4970345	4985083	MSTRG.16752.2	RAVER1
scaffold_40	4970302	4984706	RAVR1_g17354.t1	RAVER1
scaffold_40	10256090	10265369	RB11B_g17510.t1	RB11B
scaffold_40	1087353	1093657	RD23A_g17273.t1	RD23A
scaffold_40	12014493	12019672	REEP6_g17590.t1	REEP6
scaffold_40	323103	324780	REL3_g17248.t1	REL3
scaffold_40	12277423	12301414	REXO1_g17597.t1	REXO1
scaffold_40	335955	359054	MSTRG.16630.1	RFX1
scaffold_40	336650	359054	MSTRG.16630.3	RFX1
scaffold_40	336624	366608	MSTRG.16630.2	RFX1
scaffold_40	15556656	15591707	MSTRG.17025.3	RFX2
scaffold_40	15550029	15591707	RFX2_g17722.t1	RFX2
scaffold_40	15548370	15645418	MSTRG.17025.1	RFX2
scaffold_40	8322756	8330268	MSTRG.16794.1	RGL2
scaffold_40	8322762	8324421	MSTRG.16795.1	RGL2
scaffold_40	8513204	8517904	MSTRG.16809.4	RGL2
scaffold_40	8517112	8520381	MSTRG.16810.1	RGL2
scaffold_40	5021958	5028749	RM04_g17360.t1	RM04
scaffold_40	13975633	13977554	RM54_g17666.t1	MRPL54
scaffold_40	11370318	11379320	RN126_g17554.t1	RNF126
scaffold_40	1181506	1185588	RNH2A_g17282.t1	RNASEH2A
scaffold_40	11678181	11683629	RPAB1_g17574.t1	POLR2E
scaffold_40	15344128	15345921	MSTRG.17017.1	RPL36
scaffold_40	11345461	11360636	RPOM_g17552.t1	POLRMT
scaffold_40	10312582	10313631	MSTRG.16837.1	RPS28

scaffold_40	10312612	10313631	RS28_g17513.t1	RS28
scaffold_40	11595131	11595428	MSTRG.16878.1	RXFP2
scaffold_40	5043369	5044424	S1PR2_g17361.t1	S1PR2
scaffold_40	15888378	15893551	S2541_g17732.t1	SLC25A41
scaffold_40	13014566	13018277	S39A3_g17628.t1	S39A3
scaffold_40	15302981	15332407	MSTRG.17013.2	SAFB
scaffold_40	15293041	15332407	SAFB1_g17708.t1	SAFB1
scaffold_40	15244636	15276604	SAFB2_g17706.t1	SAFB2
scaffold_40	15283794	15293610	SAFB2_g17707.t1	SAFB2
scaffold_40	15244098	15272005	MSTRG.17011.1	SAFB2
scaffold_40	15244417	15270411	MSTRG.17011.2	SAFB2
scaffold_40	15244417	15247347	MSTRG.17011.3	SAFB2
scaffold_40	15265841	15267598	MSTRG.17011.5	SAFB2
scaffold_40	15283609	15293610	MSTRG.17012.1	SAFB2
scaffold_40	15310519	15332407	MSTRG.17013.3	SAFB2
scaffold_40	282725	285602	MSTRG.16627.2	SAMD1
scaffold_40	282727	283484	MSTRG.16627.3	SAMD1
scaffold_40	11703193	11713969	SBNO2_g17576.t1	SBNO2
scaffold_40	12353818	12368719	SCAM4_g17602.t1	SCAMP4
scaffold_40	12348445	12369471	MSTRG.16919.1	SCAMP4
scaffold_40	12348445	12369471	MSTRG.16919.2	SCAMP4
scaffold_40	9920922	9921874	MSTRG.16829.4	SCAND2P
scaffold_40	15899180	15909457	SCMC3_g17733.t1	SLC25A23
scaffold_40	12654205	12667737	MSTRG.16929.1	SF3A2
scaffold_40	12658944	12664411	SF3A2_g17612.t1	SF3A2
scaffold_40	13035197	13043764	SGTA_g17630.t1	SGTA
scaffold_40	13032666	13049716	MSTRG.16939.1	SGTA
scaffold_40	14386694	14417712	SH3G1_g17689.t1	SH3GL1
scaffold_40	14341078	14344589	MSTRG.16993.2	SHD
scaffold_40	14339571	14344589	SHD_g17684.t1	SHD
scaffold_40	5130834	5134957	SHFL_g17366.t1	SHFL
scaffold_40	13763062	13764827	SIM24_g17650.t1	SIM24
scaffold_40	13766497	13769737	SIM24_g17651.t1	SIM24
scaffold_40	14270491	14278388	SIR6_g17680.t1	SIRT6
scaffold_40	8338768	8339197	MSTRG.16797.1	SLC22A14
scaffold_40	8532722	8533132	MSTRG.16813.1	SLC22A14
scaffold_40	13018278	13019658	POL_g17629.t1	SLC39A3
scaffold_40	13011076	13019658	MSTRG.16938.1	SLC39A3
scaffold_40	282404	285602	MSTRG.16627.1	SMAD1
scaffold_40	4416379	4504085	MSTRG.16732.3	SMARCA4
scaffold_40	4416382	4504085	MSTRG.16732.4	SMARCA4
scaffold_40	4416375	4504085	MSTRG.16732.1	SMARCA4
scaffold_40	4416375	4504085	MSTRG.16732.2	SMARCA4
scaffold_40	4416382	4504085	MSTRG.16732.5	SMARCA4
scaffold_40	4504087	4543162	MSTRG.16733.1	SMARCA4

scaffold_40	4504087	4543162	MSTRG.16733.2	SMARCA4
scaffold_40	4416818	4504463	SMCA4_g17334.t1	SMCA4
scaffold_40	10599533	10602296	MSTRG.16850.1	SNAPC2
scaffold_40	4353314	4359042	MSTRG.16729.1	SPC24
scaffold_40	4353322	4358790	SPC24_g17332.t1	SPC24
scaffold_40	12730715	12750879	SPP2B_g17620.t1	SPP2B
scaffold_40	12730644	12751183	MSTRG.16932.1	SPPL2B
scaffold_40	12413322	12414328	MSTRG.16921.3	SPRN
scaffold_40	3659484	3659939	MSTRG.16705.1	SPTBN1
scaffold_40	5119761	5123333	SSF1_g17364.t1	SSF1
scaffold_40	5116715	5123333	SSF1_g17364.t2	SSF1
scaffold_40	14364299	14372593	STAP2_g17687.t1	STAP2
scaffold_40	11763022	11784801	MSTRG.16890.3	STK11
scaffold_40	11762893	11784801	MSTRG.16890.1	STK11
scaffold_40	11762978	11782269	MSTRG.16890.2	STK11
scaffold_40	11763056	11784801	MSTRG.16890.4	STK11
scaffold_40	11763778	11782198	STK11_g17577.t1	STK11
scaffold_40	927324	930062	MSTRG.16644.1	STX10
scaffold_40	927522	929219	MSTRG.16644.2	STX10
scaffold_40	927559	930062	STX10_g17266.t1	STX10
scaffold_40	10818622	10826853	MSTRG.16855.1	STXBP2
scaffold_40	4208610	4209956	SWAP1_g17325.t1	SWSAP1
scaffold_40	1112016	1124121	SYCE2_g17276.t1	SYCE2
scaffold_40	10833397	10842822	SYF1_g17531.t1	XAB2
scaffold_40	1101339	1108594	SYFA_g17275.t1	SYFA
scaffold_40	15851334	15860378	T2FA_g17729.t1	T2FA
scaffold_40	15929059	15933345	TBB4A_g17736.t1	TBB4A
scaffold_40	14729344	14731575	TCAM1_g17699.t1	TCAM1
scaffold_40	12108440	12145805	MSTRG.16912.1	TCF3
scaffold_40	12108440	12143665	MSTRG.16912.3	TCF3
scaffold_40	12108440	12145620	MSTRG.16912.2	TCF3
scaffold_40	12108443	12145620	MSTRG.16912.4	TCF3
scaffold_40	12108530	12145620	MSTRG.16912.5	TCF3
scaffold_40	8556677	8559765	TECR_g17478.t1	TECR
scaffold_40	8556494	8559765	TECR_g17478.t2	TECR
scaffold_40	10926536	10930462	TEX45_g17536.t1	TEX45
scaffold_40	12109126	12143665	TFE2_g17594.t1	TFE2
scaffold_40	13051621	13072066	THOP1_g17631.t1	THOP1
scaffold_40	1186346	1187904	THSD8_g17283.t1	THSD8
scaffold_40	14728980	14740608	MSTRG.17004.1	TICAM1
scaffold_40	14747667	14767962	MSTRG.17005.1	TICAM1
scaffold_40	15534549	15534806	TIGD1_g17721.t1	TIGD1
scaffold_40	12804019	12805214	TIM13_g17623.t1	TIM13
scaffold_40	4551400	4552255	TIM29_g17335.t1	TIMM29
scaffold_40	10581891	10595748	TIM44_g17519.t1	TIMM44

scaffold_40	12801494	12804021	MSTRG.16935.2	TIMM13
scaffold_40	12803876	12825145	MSTRG.16936.1	TIMM13
scaffold_40	10595901	10596159	MSTRG.16846.1	TIMM44
scaffold_40	13447582	13466652	MSTRG.16957.2	TLE2
scaffold_40	13447582	13466125	TLE2_g17641.t1	TLE2
scaffold_40	13447402	13466273	MSTRG.16957.1	TLE2
scaffold_40	13480018	13486948	TLE5_g17642.t1	TLE5
scaffold_40	4614788	4617621	TMED1_g17338.t1	TMED1
scaffold_40	6711673	6711908	MSTRG.16785.1	TMEM182
scaffold_40	4228653	4230926	MSTRG.16726.2	TMEM205
scaffold_40	4228643	4230926	MSTRG.16726.1	TMEM205
scaffold_40	12795447	12804021	TMPS9_g17622.t1	TMPRSS9
scaffold_40	8530511	8531669	TMTC1_g17476.t1	TMTC1
scaffold_40	16070582	16073820	TNF14_g17740.t1	TNFSF14
scaffold_40	14575856	14585218	MSTRG.17000.1	TNFAIP8L1
scaffold_40	15950268	15952714	TNFL9_g17737.t1	TNFL9
scaffold_40	1240637	1261758	MSTRG.16664.1	TNPO2
scaffold_40	1240637	1261758	MSTRG.16664.2	TNPO2
scaffold_40	1242202	1252500	TNPO2_g17291.t1	TNPO2
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scaffold_40	11269345	11276013	MSTRG.16867.3	TPGS1
scaffold_40	11268930	11276013	TPGS1_g17547.t1	TPGS1
scaffold_40	11269296	11276013	TPGS1_g17547.t2	TPGS1
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scaffold_40	1233054	1235815	TRIR_g17289.t1	TRIR
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scaffold_40	951609	958942	TRM1_g17268.t2	TRMT1
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scaffold_40	4939891	4959127	TYK2_g17352.t1	TYK2
scaffold_40	11282141	11291188	UB2R1_g17548.t1	UB2R1
scaffold_40	5334570	5337570	UBL5_g17371.t1	UBL5
scaffold_40	14449694	14460574	UBXN6_g17691.t1	UBXN6
scaffold_40	14449324	14460574	MSTRG.16997.1	UBXN6
scaffold_40	14449350	14460574	MSTRG.16997.2	UBXN6
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scaffold_40	11137886	11168044	MSTRG.16866.3	UHRF1
scaffold_40	14793446	14823592	MSTRG.17006.1	UHRF1
scaffold_40	12097886	12101731	MSTRG.16911.1	UQCR11
scaffold_40	12097935	12099628	MSTRG.16911.2	UQCR11
scaffold_40	16220389	16279503	VAV_g17746.t1	VAV1
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scaffold_40	15480522	15482203	VMAC_g17718.t1	VMAC

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scaffold_40	11599511	11605818	WDR18_g17568.t2	WDR18
scaffold_40	1270725	1274659	WDR83_g17295.t1	WDR83
scaffold_40	1270578	1274659	MSTRG.16666.1	WDR83
scaffold_40	1270725	1274144	MSTRG.16666.2	WDR83
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scaffold_40	4552233	4558094	MSTRG.16736.2	YIPF2
scaffold_40	4552233	4558094	MSTRG.16736.1	YIPF2
scaffold_40	4552471	4558094	MSTRG.16736.3	YIPF2
scaffold_40	4552636	4558094	MSTRG.16736.4	YIPF2
scaffold_40	14318118	14332804	YJU2_g17683.t1	YJU2
scaffold_40	489173	498361	CC130_g17259.t1	YJU2B
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scaffold_40	14174766	14193650	MSTRG.16985.3	ZBTB7A
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scaffold_40	8621788	8679222	ZN333_g17482.t1	ZNF333
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scaffold_40	6093016	6103339	ZN426_g17382.t1	ZNF426
scaffold_40	7257903	7283981	ZN426_g17429.t1	ZNF426
scaffold_40	13086339	13093156	ZN554_g17633.t1	ZNF554
scaffold_40	13101461	13129291	ZN555_g17634.t1	ZNF555
scaffold_40	6662100	6662663	ZN559_g17404.t1	ZNF559
scaffold_40	1774740	1843662	ZN564_g17300.t1	ZNF564
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scaffold_40	3696153	3732661	ZN627_g17311.t1	ZNF627
scaffold_40	4127288	4142727	ZN653_g17319.t1	ZNF653
scaffold_40	6624971	6633820	ZN699_g17402.t1	ZNF699
scaffold_40	1472817	1475207	ZN709_g17298.t1	ZNF709
scaffold_40	1655684	1658846	ZN709_g17299.t1	ZNF709
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scaffold_40	4014242	4015717	ZN709_g17315.t1	ZNF709
scaffold_40	13372012	13382816	ZN788_g17638.t1	ZNF788P
scaffold_40	5408320	5420563	ZN846_g17375.t1	ZNF846
scaffold_40	3766743	3807207	ZNF14_g17312.t1	ZNF14
scaffold_40	3815891	3885858	ZNF14_g17313.t1	ZNF14
scaffold_40	6683853	6685070	MSTRG.16781.4	ZNF177
scaffold_40	5499552	5519648	MSTRG.16767.1	ZNF26
scaffold_40	5563411	5590040	MSTRG.16768.1	ZNF26
scaffold_40	5937481	5954236	MSTRG.16771.1	ZNF266
scaffold_40	5981467	6001152	MSTRG.16772.1	ZNF266

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scaffold_40	8658732	8665737	MSTRG.16820.2	ZNF333
scaffold_40	8658927	8682339	MSTRG.16820.3	ZNF333
scaffold_40	8658927	8680301	MSTRG.16820.4	ZNF333
scaffold_40	8658939	8680301	MSTRG.16820.5	ZNF333
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scaffold_40	10916160	10920944	MSTRG.16858.2	ZNF358
scaffold_40	10173300	10176898	MSTRG.16832.1	ZNF414
scaffold_40	4016106	4016307	MSTRG.16715.1	ZNF555
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scaffold_40	3824503	3824796	MSTRG.16712.1	ZNF564
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scaffold_5	74440644	74447081	MSTRG.17755.1	ABHD14A
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scaffold_5	79958982	79986890	ABHD6_g18434.t1	ABHD6
scaffold_5	11359304	11360739	MSTRG.17283.1	ABR
scaffold_5	1297195	1304393	ABTB1_g17760.t1	ABTB1
scaffold_5	1296782	1304086	MSTRG.17066.1	ABTB1
scaffold_5	1296782	1304393	MSTRG.17066.2	ABTB1
scaffold_5	3780367	3786050	ACAD9_g17782.t1	ACAD9
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scaffold_5	66648225	66649379	ACKR2_g18192.t1	ACKR2
scaffold_5	66649548	66649823	MSTRG.17614.1	ACKR2
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scaffold_5	72573884	72582915	ACPH_g18321.t1	APEH
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scaffold_5	63100384	63100666	MSTRG.17586.1	ACVR2B
scaffold_5	63102233	63102466	MSTRG.17588.1	ACVR2B
scaffold_5	74449342	74455635	ACY1_g18374.t2	ACY1
scaffold_5	74448513	74455635	MSTRG.17757.1	ACY1
scaffold_5	21582251	21597036	MSTRG.17310.1	ADAM20
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scaffold_5	85451379	85614055	MSTRG.17844.1	ADAMTS9
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scaffold_5	69902394	69920637	AL2CL_g18243.t2	ALS2CL
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scaffold_5	2596293	2631666	MSTRG.17080.3	ALDH1L1
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scaffold_5	39782983	39798212	AMOL2_g18026.t1	AMOTL2
scaffold_5	39780188	39798212	MSTRG.17470.1	AMOTL2

scaffold_5	39780188	39798212	MSTRG.17470.2	AMOTL2
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scaffold_5	43808194	43809721	MSTRG.17506.1	ANKRD28
scaffold_5	43808230	43922366	MSTRG.17507.1	ANKRD28
scaffold_5	43809922	43992094	MSTRG.17507.3	ANKRD28
scaffold_5	43810048	43922366	MSTRG.17507.4	ANKRD28
scaffold_5	26906211	26934756	ANKUB_g17944.t1	ANKUB1
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scaffold_5	67050144	67257603	MSTRG.17619.1	ANO10
scaffold_5	43809892	43992094	ANR28_g18064.t1	ANKRD28
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scaffold_5	79090075	79126787	MSTRG.17808.1	APPL1
scaffold_5	79384759	79400993	ARF4_g18428.t1	ARF4
scaffold_5	79380886	79393789	MSTRG.17815.1	ARF4
scaffold_5	78659590	78730165	ARHG3_g18422.t1	ARHGEF3
scaffold_5	92799888	92802477	MSTRG.17866.8	ARHGAP24
scaffold_5	23106954	23107158	MSTRG.17329.1	ARHGEF26
scaffold_5	3236352	3237098	MSTRG.17100.1	ARHGEF38
scaffold_5	23090943	23200136	ARHGQ_g17915.t1	ARHGEF26
scaffold_5	71981689	72025723	ARI2_g18292.t1	ARIH2
scaffold_5	71977633	72025723	MSTRG.17697.1	ARIH2
scaffold_5	71977633	72025723	MSTRG.17697.2	ARIH2
scaffold_5	74068971	74144499	ARIP4_g18363.t1	RAD54L2
scaffold_5	89481699	89506074	MSTRG.17858.1	ARL6IP5
scaffold_5	18352101	18398225	ARL8B_g17890.t1	ARL8B
scaffold_5	11252040	11252574	MSTRG.17265.1	ARMC3
scaffold_5	36602418	36704048	ARMC8_g18009.t1	ARMC8
scaffold_5	36601884	36602252	MSTRG.17442.1	ARMC8
scaffold_5	60737900	60848936	ARP21_g18130.t1	ARPP21
scaffold_5	76107657	76121883	ARP8_g18413.t1	ACTR8
scaffold_5	10851702	10861504	ARPC4_g17860.t1	ARPC4
scaffold_5	60699069	60848936	MSTRG.17565.1	ARPP21
scaffold_5	60699142	60848936	MSTRG.17565.2	ARPP21
scaffold_5	60699173	60848936	MSTRG.17565.3	ARPP21
scaffold_5	60699173	60792100	MSTRG.17565.4	ARPP21
scaffold_5	60699173	60848936	MSTRG.17565.5	ARPP21
scaffold_5	60744917	60827043	MSTRG.17565.7	ARPP21
scaffold_5	60774780	60848936	MSTRG.17565.8	ARPP21

scaffold_5	42615535	42622555	ASTE1_g18051.t1	ASTE1
scaffold_5	33510535	33554704	AT1B3_g17979.t1	ATP1B3
scaffold_5	7181345	7302385	AT2B2_g17825.t1	ATP2B2
scaffold_5	42624511	42739002	AT2C1_g18052.t1	ATP2C1
scaffold_5	8145710	8203888	ATG7_g17831.t1	ATG7
scaffold_5	42623671	42739566	MSTRG.17488.1	ATP2C1
scaffold_5	42636284	42739566	MSTRG.17488.3	ATP2C1
scaffold_5	33055829	33112264	MSTRG.17392.1	ATR
scaffold_5	71579981	71594905	ATRIP_g18278.t1	ATRIP
scaffold_5	71574678	71576813	MSTRG.17684.1	ATRIP
scaffold_5	71574814	71576813	MSTRG.17684.2	ATRIP
scaffold_5	71579841	71594905	MSTRG.17685.1	ATRIP
scaffold_5	71579901	71594905	MSTRG.17685.2	ATRIP
scaffold_5	84890744	84977515	ATX7_g18454.t1	ATXN7
scaffold_5	84846470	84962643	MSTRG.17843.1	ATXN7
scaffold_5	84846588	84982192	MSTRG.17843.2	ATXN7
scaffold_5	63066601	63095580	AVR2B_g18150.t1	ACVR2B
scaffold_5	54471089	54487992	AZI2_g18103.t1	AZI2
scaffold_5	54469120	54497025	MSTRG.17539.1	AZI2
scaffold_5	54469120	54497025	MSTRG.17539.2	AZI2
scaffold_5	29973907	29974275	MSTRG.17376.1	B3GNT5
scaffold_5	74813996	74822935	MSTRG.17767.1	BAP1
scaffold_5	58516378	58603226	BGAL_g18122.t1	GLB1
scaffold_5	17856661	17860555	BHE40_g17889.t1	BHLHE40
scaffold_5	34160317	34161532	MSTRG.17406.1	BMT2
scaffold_5	7551969	7552172	MSTRG.17214.1	BNC2
scaffold_5	7000408	7009100	BRK1_g17819.t1	BRK1
scaffold_5	10799767	10811976	BRPF1_g17857.t1	BRPF1
scaffold_5	10797203	10812523	MSTRG.17244.1	BRPF1
scaffold_5	10797203	10812523	MSTRG.17244.2	BRPF1
scaffold_5	10797222	10812523	MSTRG.17244.3	BRPF1
scaffold_5	10797222	10812523	MSTRG.17244.4	BRPF1
scaffold_5	10797236	10812523	MSTRG.17244.5	BRPF1
scaffold_5	10797236	10812523	MSTRG.17244.6	BRPF1
scaffold_5	43777717	43785812	BTD_g18063.t1	BTD
scaffold_5	43778157	43785812	MSTRG.17499.3	BTD
scaffold_5	72361983	72367477	C1QT4_g18313.t1	C1QTNF4
scaffold_5	31736781	31758835	MSTRG.17382.1	DIPK2A
scaffold_5	31736784	31758896	MSTRG.17382.2	DIPK2A
scaffold_5	72249573	72298219	MSTRG.17709.2	C3ORF62
scaffold_5	72250949	72254553	MSTRG.17709.3	C3ORF62
scaffold_5	80331466	80367923	MSTRG.17825.1	CFAP20DC
scaffold_5	73147843	73150546	C56D2_g18351.t1	CYB561D2
scaffold_5	73160471	73174296	CA2D2_g18353.t1	CACNA2D2
scaffold_5	76331095	77189014	CA2D3_g18416.t1	CACNA2D3

scaffold_5	68150075	68171450	MSTRG.17630.1	CA5A
scaffold_5	75736962	76051603	CAC1D_g18409.t1	CACNA1D
scaffold_5	73159821	73300875	MSTRG.17738.1	CACNA2D2
scaffold_5	73159832	73300875	MSTRG.17738.2	CACNA2D2
scaffold_5	10819381	10830793	MSTRG.17246.1	CAMK1
scaffold_5	10819381	10830793	MSTRG.17246.2	CAMK1
scaffold_5	10819381	10830793	MSTRG.17246.3	CAMK1
scaffold_5	10819383	10830793	MSTRG.17246.4	CAMK1
scaffold_5	10819458	10830793	MSTRG.17246.5	CAMK1
scaffold_5	13459010	13460512	MARK2_g17874.t1	CAMK2A
scaffold_5	71308783	71310971	PG4_g18271.t1	CAMP
scaffold_5	43422144	43461330	CAN7_g18057.t1	CAPN7
scaffold_5	9498774	9514079	CAND2_g17844.t1	CAND2
scaffold_5	43421901	43461330	MSTRG.17493.1	CAPN7
scaffold_5	36326817	36329350	CBPD_g18004.t1	CPD
scaffold_5	6494245	6529874	CC020_g17814.t1	C3ORF20
scaffold_5	6530743	6561444	CC020_g17815.t1	C3ORF20
scaffold_5	21969810	21987837	CC033_g17907.t1	C3ORF33
scaffold_5	5276797	5282892	CC174_g17801.t1	CCDC174
scaffold_5	70106708	70155705	CCD12_g18253.t1	CCDC12
scaffold_5	78526622	78582301	CCD66_g18420.t1	CCDC66
scaffold_5	70104786	70123925	MSTRG.17656.1	CCDC12
scaffold_5	5276509	5282892	MSTRG.17141.1	CCDC174
scaffold_5	71565903	71579756	MSTRG.17683.1	CCDC51
scaffold_5	71565936	71574698	MSTRG.17683.2	CCDC51
scaffold_5	78579658	78580721	MSTRG.17801.1	CCDC66
scaffold_5	72160389	72167589	MSTRG.17703.1	CCDC71
scaffold_5	6121054	6121934	MSTRG.17169.1	CCDC93
scaffold_5	15094722	15095277	MSTRG.17293.1	CCDC93
scaffold_5	69510374	69511441	CCR1_g18233.t1	CCR1
scaffold_5	5110514	5110714	MSTRG.17132.1	CCR8
scaffold_5	84116857	84117110	MSTRG.17838.1	CCR8
scaffold_5	69679079	69680122	CCRL2_g18237.t1	CCRL2
scaffold_5	69678404	69680122	MSTRG.17653.1	CCRL2
scaffold_5	21605157	21605964	MT21E_g17900.t1	CD1D
scaffold_5	71241926	71244479	MSTRG.17675.1	CDC25A
scaffold_5	71206851	71241641	MSTRG.17678.1	CDC25A
scaffold_5	71206851	71241641	MSTRG.17678.2	CDC25A
scaffold_5	68549725	68603904	CDCP1_g18220.t1	CDCP1
scaffold_5	36651714	36704048	MSTRG.17443.3	CDKL1
scaffold_5	40475507	40489313	CDV3_g18035.t1	CDV3
scaffold_5	40473453	40488865	MSTRG.17476.1	CDV3
scaffold_5	71730114	71766456	CELR3_g18286.t1	CELSR3
scaffold_5	71729890	71739621	MSTRG.17691.1	CELSR3
scaffold_5	71729891	71739621	MSTRG.17691.2	CELSR3

scaffold_5	83466427	83479590	CC014_g18448.t1	CEP15
scaffold_5	39636344	39688134	CEP63_g18024.t1	CEP63
scaffold_5	39631118	39688259	MSTRG.17466.1	CEP63
scaffold_5	39633154	39688305	MSTRG.17466.2	CEP63
scaffold_5	39688024	39696366	MSTRG.17467.1	CEP63
scaffold_5	36360833	36413352	CEP70_g18005.t1	CEP70
scaffold_5	36327030	36413733	MSTRG.17440.2	CEP70
scaffold_5	80331542	80555675	CF20D_g18442.t1	CFAP20DC
scaffold_5	2920316	2967230	MSTRG.17087.1	CFAP100
scaffold_5	13697162	13782924	MSTRG.17291.5	CHL1
scaffold_5	13697162	13782924	MSTRG.17291.6	CHL1
scaffold_5	72029471	72029678	MSTRG.17696.1	CHST1
scaffold_5	32541466	32543058	CHST2_g17968.t1	CHST2
scaffold_5	10928395	10932722	MSTRG.17253.1	CIDEC
scaffold_5	73392312	73396475	CISH_g18356.t1	CISH
scaffold_5	73392019	73392221	MSTRG.17741.1	CISH
scaffold_5	58027248	58080678	CKLF7_g18115.t1	CMTM7
scaffold_5	57907164	58010634	CKLF8_g18114.t1	CMTM8
scaffold_5	58949534	59117757	CLAP2_g18128.t1	CLASP2
scaffold_5	3485580	3486612	MSTRG.17090.1	CLASP1
scaffold_5	58947902	59117757	MSTRG.17562.1	CLASP2
scaffold_5	58947902	59117757	MSTRG.17562.2	CLASP2
scaffold_5	53378064	53395131	CLCA2_g18097.t1	CLCA2
scaffold_5	81722796	81722999	MSTRG.17827.1	CLEC4E
scaffold_5	34600730	34600955	MSTRG.17410.1	CLSTN2
scaffold_5	54385862	54467779	MSTRG.17538.1	CMC1
scaffold_5	58095604	58113619	CKLF6_g18117.t1	CMTM6
scaffold_5	73904283	73909979	MSTRG.17746.5	CNBD2
scaffold_5	4009754	4012240	CNBP_g17784.t1	CNBP
scaffold_5	4001034	4012240	MSTRG.17108.1	CNBP
scaffold_5	4001034	4012240	MSTRG.17108.2	CNBP
scaffold_5	4001046	4012240	MSTRG.17108.3	CNBP
scaffold_5	58258505	58339150	CNO10_g18119.t1	CNOT10
scaffold_5	58258294	58339150	MSTRG.17553.1	CNOT10
scaffold_5	12316566	12471779	CNTN3_g17872.t1	CNTN3
scaffold_5	15732608	16171089	CNTN4_g17880.t1	CNTN4
scaffold_5	14567930	14684960	CNTN6_g17877.t1	CNTN6
scaffold_5	14553273	14564314	MSTRG.17295.4	CNTN6
scaffold_5	43271455	43276678	MSTRG.17490.1	COL4A4
scaffold_5	43090198	43205035	MSTRG.17489.1	COL6A5
scaffold_5	43090198	43205035	MSTRG.17489.2	COL6A5
scaffold_5	26942092	26948830	COMD2_g17945.t1	COMMD2
scaffold_5	35644932	35679224	COPB2_g17995.t1	COPB2
scaffold_5	3924515	3954428	COPG1_g17783.t1	COPG1
scaffold_5	3924003	3954428	MSTRG.17109.1	COPG1

scaffold_5	75315276	75378482	COQ2_g18404.t1	COQ2
scaffold_5	54385928	54467779	COXM1_g18102.t1	CMC1
scaffold_5	27453369	27480371	MSTRG.17363.3	CP
scaffold_5	2859418	2925917	CP100_g17774.t1	CFAP100
scaffold_5	16253084	16281014	CRBN_g17883.t1	CRBN
scaffold_5	16252492	16281014	MSTRG.17297.1	CRBN
scaffold_5	10972570	10981522	CREL1_g17866.t1	CRELD1
scaffold_5	10972625	10983173	MSTRG.17260.2	CRELD1
scaffold_5	10972625	10981522	MSTRG.17260.3	CRELD1
scaffold_5	58631427	58656961	MSTRG.17557.1	CRTAP
scaffold_5	58655977	58656961	MSTRG.17558.1	CRTAP
scaffold_5	70699194	70711301	CSPG5_g18263.t1	CSPG5
scaffold_5	70698754	70898552	MSTRG.17669.1	CSPG5
scaffold_5	63678567	63690836	MSTRG.17590.1	CSRNP1
scaffold_5	34607315	34731842	CSTN2_g17991.t1	CLSTN2
scaffold_5	62622914	62656972	MSTRG.17576.2	CTDSPL
scaffold_5	65357840	65370531	CTNB1_g18178.t1	CTNNB1
scaffold_5	65334265	65371573	MSTRG.17605.1	CTNNB1
scaffold_5	65334378	65371573	MSTRG.17605.2	CTNNB1
scaffold_5	4220638	4220907	MSTRG.17122.1	CUL9
scaffold_5	69341462	69342487	CXCR6_g18229.t1	CXCR6
scaffold_5	73143702	73155979	MSTRG.17736.1	CYB561D2
scaffold_5	73143702	73148179	MSTRG.17736.2	CYB561D2
scaffold_5	73145955	73148179	MSTRG.17736.4	CYB561D2
scaffold_5	73154264	73155979	MSTRG.17736.6	CYB561D2
scaffold_5	21685882	21686868	CYRIA_g17902.t1	CYRIA
scaffold_5	72447550	72465434	DAG1_g18318.t1	DAG1
scaffold_5	72447544	72465434	DAG1_g18318.t2	DAG1
scaffold_5	72406110	72465434	MSTRG.17715.2	DAG1
scaffold_5	72406110	72465434	MSTRG.17715.3	DAG1
scaffold_5	72410686	72412022	MSTRG.17716.1	DAG1
scaffold_5	72053237	72057413	DALD3_g18295.t1	DALRD3
scaffold_5	36714803	36724868	DBR1_g18010.t1	DBR1
scaffold_5	58131518	58167000	DC1L1_g18118.t1	DYNC1LI1
scaffold_5	73921760	73997677	DCAF1_g18362.t1	DCAF1
scaffold_5	73917476	74007321	MSTRG.17748.1	DCAF1
scaffold_5	75565512	75621921	DCP1A_g18408.t1	DCP1A
scaffold_5	75560171	75621921	MSTRG.17793.1	DCP1A
scaffold_5	79418925	79471571	DEN6A_g18429.t1	DENND6A
scaffold_5	70956182	70973229	DHX30_g18265.t1	DHX30
scaffold_5	70944635	70953679	DHX30_g18265.t2	DHX30
scaffold_5	70941834	70973229	MSTRG.17676.1	DHX30
scaffold_5	70941834	70973229	MSTRG.17676.2	DHX30
scaffold_5	23036826	23079114	DHX36_g17913.t1	DHX36
scaffold_5	74436888	74441387	MSTRG.17754.1	DHX58

scaffold_5	74436892	74441387	MSTRG.17754.2	DHX58
scaffold_5	31739267	31758835	DIK2A_g17963.t1	DIPK2A
scaffold_5	41324161	41420182	DJC13_g18045.t1	DNAJC13
scaffold_5	62719782	62791917	DLEC1_g18143.t1	DLEC1
scaffold_5	847593	849680	MSTRG.17064.3	DMTN
scaffold_5	74785299	74814795	MSTRG.17766.3	DNAH1
scaffold_5	41323206	41437167	MSTRG.17486.1	DNAJC13
scaffold_5	41323371	41437167	MSTRG.17486.2	DNAJC13
scaffold_5	41323371	41437167	MSTRG.17486.3	DNAJC13
scaffold_5	41323425	41406917	MSTRG.17486.4	DNAJC13
scaffold_5	41323425	41437167	MSTRG.17486.5	DNAJC13
scaffold_5	73897856	73921760	MSTRG.17746.3	DOCK3
scaffold_5	79090152	79126787	DP13A_g18425.t1	APPL1
scaffold_5	44276196	44280862	DPH3_g18066.t1	DPH3
scaffold_5	74507439	74512973	DUS7_g18376.t1	DUSP7
scaffold_5	74507439	74513012	DUS7_g18376.t2	DUSP7
scaffold_5	74735681	74814795	DYH1_g18383.t1	DNAH1
scaffold_5	58131492	58136302	MSTRG.17552.1	DYNC1LI1
scaffold_5	36756934	36801603	DZI1L_g18011.t2	DZIP1L
scaffold_5	36754379	36772139	MSTRG.17446.1	DZIP1L
scaffold_5	43593668	43606951	EAF1_g18060.t1	EAF1
scaffold_5	18408754	18443829	EDEM1_g17891.t1	EDEM1
scaffold_5	18408601	18422182	MSTRG.17321.1	EDEM1
scaffold_5	47350855	47398620	EFHB_g18075.t1	EFHB
scaffold_5	853190	854888	MSTRG.17063.1	EFR3A
scaffold_5	13352468	13395071	EGF_g17873.t1	EGF
scaffold_5	6116650	6117829	MSTRG.17166.1	EHF
scaffold_5	64620812	64622872	EIF1B_g18169.t1	EIF1B
scaffold_5	26174281	26210908	MSTRG.17352.1	EIF2A
scaffold_5	26174366	26210908	MSTRG.17352.2	EIF2A
scaffold_5	70642058	70651723	ELP6_g18262.t1	ELP6
scaffold_5	6946017	6950627	EMC3_g17816.t1	EMC3
scaffold_5	6944960	6951432	MSTRG.17199.1	EMC3
scaffold_5	64692677	64724511	ENTP3_g18170.t1	ENTPD3
scaffold_5	64687717	64724853	MSTRG.17600.1	ENTPD3
scaffold_5	64721110	64721491	MSTRG.17600.3	ENTPD3
scaffold_5	39018044	39445622	EPHB1_g18022.t1	EPHB1
scaffold_5	39016698	39064691	MSTRG.17460.1	EPHB1
scaffold_5	61780697	61788486	MSTRG.17570.1	EPM2AIP1
scaffold_5	61786511	61788486	EPMIP_g18135.t1	EPM2AIP1
scaffold_5	77713502	78419812	ERC2_g18419.t1	ERC2
scaffold_5	26078219	26104590	ERIP6_g17934.t1	ERICH6
scaffold_5	36422319	36472353	ESYT3_g18006.t1	ESYT3
scaffold_5	63108164	63139835	EXOG_g18151.t1	EXOG
scaffold_5	63108164	63144861	MSTRG.17589.3	EXOG

scaffold_5	63108164	63144861	MSTRG.17589.4	EXOG
scaffold_5	63108152	63144861	MSTRG.17589.1	EXOG
scaffold_5	63108152	63144861	MSTRG.17589.2	EXOG
scaffold_5	63117966	63128307	MSTRG.17589.6	EXOG
scaffold_5	68448588	68482467	EXOS7_g18218.t1	EXOSC7
scaffold_5	71630497	71666311	F264_g18281.t1	PFKFB4
scaffold_5	71612050	71612253	MSTRG.17681.1	F2R
scaffold_5	6951167	6993468	FACD2_g17817.t1	FACD2
scaffold_5	6993483	6996192	FACOS_g17818.t1	FACOS
scaffold_5	36298622	36319067	MSTRG.17439.5	FAIM
scaffold_5	36298528	36319067	MSTRG.17439.1	FAIM
scaffold_5	36298528	36319067	MSTRG.17439.2	FAIM
scaffold_5	36298528	36319067	MSTRG.17439.3	FAIM
scaffold_5	36298592	36319067	MSTRG.17439.4	FAIM
scaffold_5	80168157	80180835	MSTRG.17821.2	FAM107A
scaffold_5	32567861	32569959	MSTRG.17387.2	FAM107A
scaffold_5	80168157	80180835	MSTRG.17821.1	FAM107A
scaffold_5	75522211	75530130	MSTRG.17790.1	FAM109B
scaffold_5	78586953	78591439	MSTRG.17802.4	TASOR
scaffold_5	78582361	78631919	MSTRG.17802.1	FAM208A
scaffold_5	78582428	78631919	MSTRG.17802.2	FAM208A
scaffold_5	3302164	3302474	MSTRG.17104.1	FAM212B
scaffold_5	36791889	36792105	MSTRG.17449.1	FAM221B
scaffold_5	7467561	7472200	MSTRG.17210.1	FAM25A
scaffold_5	80233341	80255460	FAM3D_g18441.t1	FAM3D
scaffold_5	24191798	24192020	MSTRG.17336.1	FAM69C
scaffold_5	6963333	6993468	MSTRG.17200.3	FANCD2
scaffold_5	58753141	58863814	FBXL2_g18126.t1	FBXL2
scaffold_5	6341523	6448523	FGD5_g17813.t1	FGD5
scaffold_5	9950836	9952599	FGD5_g17848.t1	FGD5
scaffold_5	9948623	9952599	MSTRG.17230.1	FGD5
scaffold_5	81151104	81408015	MSTRG.17830.1	FHIT
scaffold_5	79741049	79844890	FLNB_g18432.t1	FLNB
scaffold_5	79740851	79877557	MSTRG.17823.1	FLNB
scaffold_5	36033500	36035016	FOXL2_g18000.t1	FOXL2
scaffold_5	36033220	36044924	MSTRG.17436.1	FOXL2
scaffold_5	36033226	36044924	MSTRG.17436.3	FOXL2
scaffold_5	36033239	36044924	MSTRG.17436.4	FOXL2
scaffold_5	36034435	36044924	MSTRG.17436.7	FOXL2
scaffold_5	36033226	36044924	MSTRG.17436.2	FOXL2
scaffold_5	36033565	36044924	MSTRG.17436.6	FOXL2
scaffold_5	91112946	91337085	FOXP1_g18478.t1	FOXP1
scaffold_5	91108561	91274910	MSTRG.17861.3	FOXP1
scaffold_5	91108561	91683125	MSTRG.17861.4	FOXP1
scaffold_5	91108561	91684219	MSTRG.17861.5	FOXP1

scaffold_5	91112946	91213979	MSTRG.17861.6	FOXP1
scaffold_5	89558909	89783548	FRM4B_g18476.t1	FRMD4B
scaffold_5	61779468	61779691	MSTRG.17567.1	FUT10
scaffold_5	35720503	35760302	FXYD4_g17997.t1	FXYD4
scaffold_5	69314221	69389718	MSTRG.17651.1	FYCO1
scaffold_5	56574355	56729156	GADL1_g18108.t1	GADL1
scaffold_5	66777495	66799326	GAK1A_g18196.t1	GAK1A
scaffold_5	9291648	9373017	MSTRG.17228.1	GALNT7
scaffold_5	39886296	39994454	MSTRG.17471.2	GALNT7
scaffold_5	87364148	87364368	MSTRG.17851.1	GALNT7
scaffold_5	453969	460012	GATA2_g17753.t1	GATA2
scaffold_5	72371257	72377355	GCST_g18315.t1	AMT
scaffold_5	7125581	7130057	GHRL_g17823.t1	GHRL
scaffold_5	7013200	7013949	MSTRG.17196.1	GHSR
scaffold_5	75070773	75076948	GL8D1_g18394.t1	GLT8D1
scaffold_5	74715352	74718083	GLCTK_g18382.t1	GLYCTK
scaffold_5	33252139	33314117	GLPK5_g17976.t1	GLPK5
scaffold_5	75070689	75081195	MSTRG.17775.2	GLT8D1
scaffold_5	75070742	75081195	MSTRG.17775.3	GLT8D1
scaffold_5	75070458	75081195	MSTRG.17775.1	GLT8D1
scaffold_5	75070742	75080939	MSTRG.17775.4	GLT8D1
scaffold_5	75070742	75080876	MSTRG.17775.5	GLT8D1
scaffold_5	27566677	27598532	GLYG_g17953.t1	GYG1
scaffold_5	72618061	72620595	GMPPB_g18326.t1	GMPPB
scaffold_5	72617962	72620595	MSTRG.17721.5	GMPPB
scaffold_5	5412566	5417891	MSTRG.17155.1	GNAI1
scaffold_5	73055995	73075942	GNAI2_g18341.t1	GNAI2
scaffold_5	73055995	73077382	MSTRG.17725.1	GNAI2
scaffold_5	14511954	14547138	MSTRG.17290.1	GNB4
scaffold_5	75063508	75070331	GNL3_g18393.t1	GNL3
scaffold_5	75063445	75070331	MSTRG.17774.1	GNL3
scaffold_5	61996046	62118874	MSTRG.17573.1	GOLGA4
scaffold_5	62000624	62075357	MSTRG.17573.2	GOLGA4
scaffold_5	63634114	63643051	MSTRG.17592.3	GORASP1
scaffold_5	63632333	63637907	MSTRG.17592.1	GORASP1
scaffold_5	63634114	63643051	GORS1_g18156.t1	GORS1
scaffold_5	57792945	57841237	GPD1L_g18113.t1	GPD1L
scaffold_5	57842481	57842711	MSTRG.17547.1	GPD1L
scaffold_5	25655390	25756256	MD12L_g17931.t1	GPR171
scaffold_5	91840274	91841404	GPR27_g18481.t1	GPR27
scaffold_5	74423569	74424660	GPR62_g18371.t1	GPR62
scaffold_5	72306553	72307263	GPX1_g18311.t1	GPX1
scaffold_5	33598528	33629385	GRK7_g17981.t1	GRK7
scaffold_5	74186334	74194830	GRM2_g18365.t1	GRM2
scaffold_5	74183724	74195173	MSTRG.17749.1	GRM2

scaffold_5	74186334	74195173	MSTRG.17749.2	GRM2
scaffold_5	76158252	76158830	GRPE1_g18415.t1	GRPEL1
scaffold_5	21851162	21903038	GUAA_g17905.t1	GMPS
scaffold_5	27565986	27598532	MSTRG.17368.1	GYG1
scaffold_5	162601	163239	H1X_g17748.t1	H1-10
scaffold_5	43715686	43747898	HACL1_g18062.t1	HACL1
scaffold_5	43747813	43785812	MSTRG.17499.1	HACL1
scaffold_5	4267423	4288946	HDA11_g17789.t1	HDA11
scaffold_5	4267281	4290281	MSTRG.17126.1	HDAC11
scaffold_5	4267618	4290281	MSTRG.17126.3	HDAC11
scaffold_5	49185651	49247457	MSTRG.17524.14	HDAC4
scaffold_5	74627400	74640508	HEM1_g18378.t1	HEM1
scaffold_5	73356418	73365463	HEMK1_g18355.t1	HEMK1
scaffold_5	73355133	73370158	MSTRG.17739.2	HEMK1
scaffold_5	73355150	73370158	MSTRG.17739.3	HEMK1
scaffold_5	73355113	73370158	MSTRG.17739.1	HEMK1
scaffold_5	73356211	73370158	MSTRG.17739.4	HEMK1
scaffold_5	85958291	85958539	MSTRG.17845.1	HEMK1
scaffold_5	72583380	72588022	HGFL_g18322.t1	MST1
scaffold_5	3486939	3488053	MSTRG.17091.1	HIFNT
scaffold_5	66595409	66604814	MSTRG.17612.1	HIGD1A
scaffold_5	27503240	27556599	HLTF_g17952.t2	HLTF
scaffold_5	27503240	27558697	MSTRG.17364.2	HLTF
scaffold_5	27445001	27480371	HPS3_g17951.t1	HPS3
scaffold_5	27444452	27449153	MSTRG.17363.1	HPS3
scaffold_5	8119417	8120817	HRH1_g17830.t1	HRH1
scaffold_5	8119354	8120817	HRH1_g17830.t2	HRH1
scaffold_5	73119166	73121558	HYAL2_g18346.t1	HYAL2
scaffold_5	73118880	73122511	MSTRG.17730.1	HYAL2
scaffold_5	73110750	73114654	MSTRG.17732.1	HYAL2
scaffold_5	73105282	73107046	HYAL3_g18345.t1	HYAL3
scaffold_5	10960915	10972404	I17RC_g17865.t1	IL17RC
scaffold_5	78966060	79025245	I17RD_g18423.t1	IL17RD
scaffold_5	10949122	10959270	I17RE_g17864.t1	I17RE
scaffold_5	5565328	5640946	IF122_g17803.t1	IF122
scaffold_5	91776827	91839736	IF4E3_g18480.t1	IF4E3
scaffold_5	73099861	73104437	IFRD2_g18344.t1	IFRD2
scaffold_5	73095327	73104437	MSTRG.17728.2	IFRD2
scaffold_5	73098552	73104437	MSTRG.17728.3	IFRD2
scaffold_5	73095327	73104437	MSTRG.17728.1	IFRD2
scaffold_5	25417099	25437628	IGS10_g17927.t1	IGS10
scaffold_5	10960699	10972404	MSTRG.17259.2	IL17RC
scaffold_5	10960736	10965915	MSTRG.17259.4	IL17RC
scaffold_5	10960665	10972404	MSTRG.17259.1	IL17RC
scaffold_5	10960699	10972404	MSTRG.17259.3	IL17RC

scaffold_5	10963189	10965915	MSTRG.17259.6	IL17RC
scaffold_5	78959991	78961742	MSTRG.17809.1	IL17RD
scaffold_5	72060870	72066726	IMDH2_g18298.t1	IMDH2
scaffold_5	72060779	72112418	MSTRG.17701.1	IMPDH2
scaffold_5	72702942	72704518	INKA1_g18328.t1	INKA1
scaffold_5	72623559	72644397	IP6K1_g18327.t1	IP6K1
scaffold_5	72617640	72689394	MSTRG.17721.4	IP6K1
scaffold_5	71785415	71791860	IP6K2_g18288.t1	IP6K2
scaffold_5	71784760	71809186	MSTRG.17694.2	IP6K2
scaffold_5	71784760	71809186	MSTRG.17694.3	IP6K2
scaffold_5	71784760	71932294	MSTRG.17694.1	IP6K2
scaffold_5	71785067	71809186	MSTRG.17694.4	IP6K2
scaffold_5	21960830	21961175	MSTRG.17320.1	IQCA1
scaffold_5	3670741	3744068	IQEC1_g17780.t1	IQSEC1
scaffold_5	3670523	3747256	MSTRG.17097.2	IQSEC1
scaffold_5	3670544	3746769	MSTRG.17097.3	IQSEC1
scaffold_5	7031315	7092731	IRAK2_g17821.t1	IRAK2
scaffold_5	4027559	4051547	ISY1_g17785.t1	ISY1
scaffold_5	4025420	4051547	MSTRG.17106.1	ISY1
scaffold_5	4026919	4051547	MSTRG.17106.2	ISY1
scaffold_5	75166234	75182394	ITIH4_g18399.t1	ITIH4
scaffold_5	17440060	17759374	MSTRG.17306.1	ITPR1
scaffold_5	17440060	17759374	MSTRG.17306.2	ITPR1
scaffold_5	17440060	17738243	MSTRG.17306.3	ITPR1
scaffold_5	17440064	17759374	MSTRG.17306.4	ITPR1
scaffold_5	17585164	17586334	MSTRG.17306.6	ITPR1
scaffold_5	10940720	10943445	JAGN1_g17862.t1	JAGN1
scaffold_5	10942948	10943445	JAGN1_g17863.t1	JAGN1
scaffold_5	68254064	68259341	K1143_g18214.t2	KIAA1143
scaffold_5	47460713	47567611	KAT2B_g18078.t1	KAT2B
scaffold_5	47456498	47567611	KAT2B_g18078.t2	KAT2B
scaffold_5	50720723	50735092	KBRS1_g18087.t1	NKIRAS1
scaffold_5	87692938	87702130	KBTB8_g18470.t1	KBTBD8
scaffold_5	91099456	91685270	MSTRG.17861.1	KCNMB3
scaffold_5	91099456	91213979	MSTRG.17861.2	KCNMB3
scaffold_5	80117077	80125934	MSTRG.17826.1	KCTD6
scaffold_5	80122860	80125934	MSTRG.17826.3	KCTD6
scaffold_5	80118947	80125934	MSTRG.17826.2	KCTD6
scaffold_5	31762675	31764345	KDM1B_g17964.t1	KDM1B
scaffold_5	68252695	68259341	MSTRG.17637.1	KIAA1143
scaffold_5	39158454	39158673	MSTRG.17461.1	KIAA1586
scaffold_5	68259414	68326732	KIF15_g18215.t1	KIF15
scaffold_5	68334630	68338161	KIF15_g18215.t2	KIF15
scaffold_5	70442639	70444934	KIF9_g18257.t1	KIF9
scaffold_5	72172541	72175547	KLD8B_g18304.t1	KLD8B

scaffold_5	2799756	2808525	KLF15_g17773.t1	KLF15
scaffold_5	2798804	2808525	MSTRG.17081.2	KLF15
scaffold_5	2798756	2812999	MSTRG.17081.1	KLF15
scaffold_5	70450109	70499528	KLH18_g18258.t1	KLHL18
scaffold_5	72175966	72176193	MSTRG.17707.1	KLHDC8B
scaffold_5	10538360	10538578	MSTRG.17241.1	KLHL13
scaffold_5	70450108	70501403	MSTRG.17662.1	KLHL18
scaffold_5	70450109	70501403	MSTRG.17662.2	KLHL18
scaffold_5	70495686	70499528	MSTRG.17662.4	KLHL18
scaffold_5	75492157	75505754	KPCD_g18406.t1	PRKCD
scaffold_5	72135604	72147453	MSTRG.17705.1	LAMB2
scaffold_5	68805048	68980580	MSTRG.17644.1	LARS2
scaffold_5	69011666	69086217	LIMD1_g18223.t1	LIMD1
scaffold_5	58365842	58430222	LIN41_g18120.t1	TRIM71
scaffold_5	7016361	7016815	MSTRG.17197.1	LIPG
scaffold_5	21295272	21353940	LMCD1_g17896.t1	LMCD1
scaffold_5	6123592	6125906	MSTRG.17171.1	LMNA
scaffold_5	53150039	53150818	LRC3B_g18096.t1	LRC3B
scaffold_5	87167577	87280040	LRIG1_g18466.t1	LRIG1
scaffold_5	61838428	61925244	LRRF2_g18137.t1	LRRF2
scaffold_5	61836040	61946534	MSTRG.17572.1	LRRFIP2
scaffold_5	61836040	61946534	MSTRG.17572.2	LRRFIP2
scaffold_5	61838288	61891031	MSTRG.17572.3	LRRFIP2
scaffold_5	16893059	16895209	LRRN1_g17884.t1	LRRN1
scaffold_5	77036611	77046299	LRTM1_g18417.t1	LRTM1
scaffold_5	4798172	4816315	LSM3_g17798.t1	LSM3
scaffold_5	73098147	73098880	LSME2_g18343.t1	LSME2
scaffold_5	40309021	40309230	MSTRG.17474.1	LY75
scaffold_5	69231168	69249234	MSTRG.17650.1	LZTFL1
scaffold_5	69232989	69241822	MSTRG.17650.2	LZTFL1
scaffold_5	69233368	69249234	LZTL1_g18226.t1	LZTFL1
scaffold_5	86239806	86739042	MAGI1_g18461.t1	MAGI1
scaffold_5	86238090	86238731	MSTRG.17846.1	MAGI1
scaffold_5	73903980	73909979	MANF_g18360.t1	MANF
scaffold_5	70976151	71006914	MAP4_g18266.t1	MAP4
scaffold_5	71021181	71100249	MAP4_g18268.t1	MAP4
scaffold_5	70974691	71164258	MSTRG.17672.2	MAP4
scaffold_5	70973625	71169843	MSTRG.17672.1	MAP4
scaffold_5	70975755	71100249	MSTRG.17672.3	MAP4
scaffold_5	3492349	3493878	MARK2_g17778.t1	MARK2
scaffold_5	11355858	11356745	MARK2_g17869.t1	MARK2
scaffold_5	15092816	15094315	MARK2_g17879.t1	MARK2
scaffold_5	5555485	5564837	MBD4_g17802.t1	MBD4
scaffold_5	24490112	24558359	MBNL1_g17920.t1	MBNL1
scaffold_5	24473665	24646525	MSTRG.17337.1	MBNL1

scaffold_5	24473674	24646525	MSTRG.17337.2	MBNL1
scaffold_5	17465911	17759374	MCLN3_g17888.t1	MCLN3
scaffold_5	1355506	1377790	MCM2_g17762.t1	MCM2
scaffold_5	8598994	8610557	MCR_g17833.t1	MCR
scaffold_5	25441452	25525537	MD12L_g17928.t1	MED12L
scaffold_5	43577288	43592531	METL6_g18059.t1	METTL6
scaffold_5	43582497	43593395	MSTRG.17495.4	METTL6
scaffold_5	43577091	43593395	MSTRG.17495.1	METTL6
scaffold_5	43577288	43593395	MSTRG.17495.2	METTL6
scaffold_5	1967969	2225400	MIC25_g17766.t1	MIC25
scaffold_5	90060512	90271021	MITF_g18477.t1	MITF
scaffold_5	71566213	71569065	MITOK_g18277.t1	CCDC51
scaffold_5	9231805	9237613	MKROS_g17839.t1	MKROS
scaffold_5	61788833	61835822	MLH1_g18136.t1	MLH1
scaffold_5	61815679	61835822	MSTRG.17571.3	MLH1
scaffold_5	61815679	61835822	MSTRG.17571.4	MLH1
scaffold_5	22414414	22460252	MSTRG.17323.1	MME
scaffold_5	22488246	22492548	MSTRG.17325.1	MME
scaffold_5	22461544	22488124	MSTRG.17324.1	MME
scaffold_5	64008710	64009469	MOBP_g18166.t1	MOBP
scaffold_5	72795116	72799694	MON1A_g18334.t1	MON1A
scaffold_5	72795116	72799732	MON1A_g18334.t2	MON1A
scaffold_5	72794864	72814025	MSTRG.17722.1	MON1A
scaffold_5	72794991	72814025	MSTRG.17722.2	MON1A
scaffold_5	41096851	41097846	MOONR_g18038.t1	MOONR
scaffold_5	41098072	41098893	MOONR_g18039.t1	MOONR
scaffold_5	71209048	71241641	MPIP1_g18270.t1	MPIP1
scaffold_5	36502464	36559366	MSTRG.17441.1	MRAS
scaffold_5	36502464	36559366	MSTRG.17441.2	MRAS
scaffold_5	42251871	42301372	MSTRG.17484.1	MRPL3
scaffold_5	6180470	6186003	MSTRG.17174.1	MRPS25
scaffold_5	38284418	38320531	MSL2_g18020.t1	MSL2
scaffold_5	38321205	38322013	MSTRG.17456.1	MSL2
scaffold_5	72583331	72588874	MSTRG.17719.3	MST1
scaffold_5	72585884	72586444	MSTRG.17719.7	MST1
scaffold_5	72583290	72588022	MSTRG.17719.1	MST1
scaffold_5	72583290	72588874	MSTRG.17719.2	MST1
scaffold_5	72583380	72588874	MSTRG.17719.4	MST1
scaffold_5	72583405	72584743	MSTRG.17719.6	MST1
scaffold_5	72784305	72785249	MSTRG.17726.2	MST1R
scaffold_5	75185027	75186564	MSTN1_g18400.t1	MSTN1
scaffold_5	10727491	10774090	MSTRG.17251.1	MTMR14
scaffold_5	10727514	10774090	MSTRG.17251.2	MTMR14
scaffold_5	10727560	10770306	MSTRG.17251.3	MTMR14
scaffold_5	10727568	10774090	MTMRE_g17855.t1	MTMR14

scaffold_5	73611357	73901616	MX2_g18359.t1	MX2
scaffold_5	62803767	62806474	MYD88_g18145.t1	MYD88
scaffold_5	62803748	62808120	MSTRG.17579.1	MYD88
scaffold_5	70044023	70050817	MYL3_g18251.t1	MYL3
scaffold_5	23961818	23967872	MSTRG.17333.1	MYPN
scaffold_5	64388013	64582002	MYRIP_g18168.t1	MYRIP
scaffold_5	64585401	64585621	MSTRG.17594.1	MYRIP
scaffold_5	33688119	33718368	NALP5_g17983.t1	NALP5
scaffold_5	70158199	70191843	NBEL2_g18254.t1	NBEAL2
scaffold_5	37662552	37685628	NCK1_g18016.t1	NCK1
scaffold_5	37659517	37730321	MSTRG.17450.1	NCK1
scaffold_5	37659517	37730321	MSTRG.17450.2	NCK1
scaffold_5	72059136	72060257	NDUF3_g18297.t1	NDUF3
scaffold_5	72058690	72060257	MSTRG.17700.1	NDUFAF3
scaffold_5	72058690	72060257	MSTRG.17700.2	NDUFAF3
scaffold_5	42426996	42611192	NEK11_g18050.t1	NEK11
scaffold_5	75125801	75144759	MSTRG.17781.1	NEK4
scaffold_5	75088015	75126320	NEK4_g18396.t1	NEK4
scaffold_5	75085328	75126320	MSTRG.17780.1	NEK4
scaffold_5	52423225	52475135	NGLY1_g18094.t1	NGLY1
scaffold_5	74867107	74899416	NISCH_g18388.t1	NISCH
scaffold_5	74867066	74899677	MSTRG.17769.1	NISCH
scaffold_5	74867096	74899677	MSTRG.17769.2	NISCH
scaffold_5	74867623	74876457	MSTRG.17769.4	NISCH
scaffold_5	74883546	74899677	MSTRG.17769.5	NISCH
scaffold_5	4223662	4224604	MSTRG.17124.1	NKPD1
scaffold_5	66423605	66478283	NKTR_g18187.t1	NKTR
scaffold_5	71417914	71426734	MSTRG.17679.1	NME6
scaffold_5	71419865	71426734	MSTRG.17679.2	NME6
scaffold_5	35334994	35499135	NMNA3_g17993.t1	NMNA3
scaffold_5	11357340	11359027	APOB_g17870.t1	APOB_g17870.t1
scaffold_5	2727384	2743976	DER_g17772.t1	DER_g17772.t1
scaffold_5	64980817	64981398	DUT_g18176.t1	DUT_g18176.t1
scaffold_5	79142402	79350418	DYH7_g18426.t1	DYH7_g18426.t1
scaffold_5	72231224	72232393	FV1_g18308.t1	FV1_g18308.t1
scaffold_5	75224718	75225875	FV1_g18402.t1	FV1_g18402.t1
scaffold_5	81742718	81743626	FV1_g18445.t1	FV1_g18445.t1
scaffold_5	92834014	92912591	GXLT2_g18486.t1	GXLT2_g18486.t1
scaffold_5	62173103	62357916	ITA9_g18139.t1	ITA9_g18139.t1
scaffold_5	62381559	62503645	ITA9_g18140.t1	ITA9_g18140.t1
scaffold_5	82178866	82337444	MALR1_g18446.t1	MALR1_g18446.t1
scaffold_5	2198875	2199092	MSTRG.17074.1	MSTRG.17074.1
scaffold_5	3239427	3348744	MSTRG.17098.2	MSTRG.17098.2
scaffold_5	3297988	3300829	MSTRG.17102.1	MSTRG.17102.1
scaffold_5	3298019	3300829	MSTRG.17102.2	MSTRG.17102.2

scaffold_5	3298019	3300829	MSTRG.17102.3	MSTRG.17102.3
scaffold_5	4017565	4017791	MSTRG.17111.1	MSTRG.17111.1
scaffold_5	4174784	4176851	MSTRG.17114.1	MSTRG.17114.1
scaffold_5	4324732	4324937	MSTRG.17125.1	MSTRG.17125.1
scaffold_5	4328085	4417338	MSTRG.17127.1	MSTRG.17127.1
scaffold_5	4763896	4787576	MSTRG.17134.2	MSTRG.17134.2
scaffold_5	5026153	5026367	MSTRG.17145.1	MSTRG.17145.1
scaffold_5	5571875	5628056	MSTRG.17158.2	MSTRG.17158.2
scaffold_5	6342615	6342846	MSTRG.17180.1	MSTRG.17180.1
scaffold_5	6518132	6524236	MSTRG.17186.4	MSTRG.17186.4
scaffold_5	7453903	7464083	MSTRG.17209.2	MSTRG.17209.2
scaffold_5	9291648	9373017	MSTRG.17228.2	MSTRG.17228.2
scaffold_5	9291648	9373017	MSTRG.17228.3	MSTRG.17228.3
scaffold_5	9291651	9373017	MSTRG.17228.4	MSTRG.17228.4
scaffold_5	9868561	9868768	MSTRG.17229.1	MSTRG.17229.1
scaffold_5	9866123	9866325	MSTRG.17231.1	MSTRG.17231.1
scaffold_5	10192505	10192798	MSTRG.17238.1	MSTRG.17238.1
scaffold_5	13674570	13782924	MSTRG.17291.3	MSTRG.17291.3
scaffold_5	17894904	17895117	MSTRG.17303.1	MSTRG.17303.1
scaffold_5	21640155	21750188	MSTRG.17311.2	MSTRG.17311.2
scaffold_5	23721065	23721272	MSTRG.17330.1	MSTRG.17330.1
scaffold_5	25686512	25686712	MSTRG.17342.1	MSTRG.17342.1
scaffold_5	25726571	25726792	MSTRG.17343.1	MSTRG.17343.1
scaffold_5	27653975	27654181	MSTRG.17367.1	MSTRG.17367.1
scaffold_5	29651777	29675411	MSTRG.17369.2	MSTRG.17369.2
scaffold_5	29792704	29837170	MSTRG.17374.2	MSTRG.17374.2
scaffold_5	30000576	30004436	MSTRG.17380.2	MSTRG.17380.2
scaffold_5	33423435	33495773	MSTRG.17395.5	MSTRG.17395.5
scaffold_5	35559630	35559849	MSTRG.17420.1	MSTRG.17420.1
scaffold_5	35843856	35844067	MSTRG.17427.1	MSTRG.17427.1
scaffold_5	36726978	36727204	MSTRG.17444.1	MSTRG.17444.1
scaffold_5	36779499	36779713	MSTRG.17447.1	MSTRG.17447.1
scaffold_5	38276157	38276370	MSTRG.17454.1	MSTRG.17454.1
scaffold_5	39479207	39479415	MSTRG.17464.1	MSTRG.17464.1
scaffold_5	39894202	39984860	MSTRG.17471.3	MSTRG.17471.3
scaffold_5	39927464	39994454	MSTRG.17471.5	MSTRG.17471.5
scaffold_5	44493266	44493484	MSTRG.17502.1	MSTRG.17502.1
scaffold_5	44493896	44494104	MSTRG.17503.1	MSTRG.17503.1
scaffold_5	49518234	49518441	MSTRG.17519.1	MSTRG.17519.1
scaffold_5	49734148	49843664	MSTRG.17521.2	MSTRG.17521.2
scaffold_5	50742741	50746749	MSTRG.17525.3	MSTRG.17525.3
scaffold_5	54497087	54616739	MSTRG.17540.1	MSTRG.17540.1
scaffold_5	61661480	61661791	MSTRG.17569.1	MSTRG.17569.1
scaffold_5	63932622	63938312	MSTRG.17596.1	MSTRG.17596.1
scaffold_5	64745588	64745820	MSTRG.17597.1	MSTRG.17597.1

scaffold_5	65442023	65442231	MSTRG.17607.1	MSTRG.17607.1
scaffold_5	66423313	66480544	MSTRG.17611.2	MSTRG.17611.2
scaffold_5	69088777	69088983	MSTRG.17645.1	MSTRG.17645.1
scaffold_5	70137992	70149015	MSTRG.17657.1	MSTRG.17657.1
scaffold_5	70711551	70898552	MSTRG.17669.3	MSTRG.17669.3
scaffold_5	70711551	70898552	MSTRG.17669.4	MSTRG.17669.4
scaffold_5	71394173	71394376	MSTRG.17677.1	MSTRG.17677.1
scaffold_5	75373985	75374192	MSTRG.17785.1	MSTRG.17785.1
scaffold_5	75474882	75505754	MSTRG.17789.2	MSTRG.17789.2
scaffold_5	78839184	78839390	MSTRG.17806.1	MSTRG.17806.1
scaffold_5	79329460	79329687	MSTRG.17812.1	MSTRG.17812.1
scaffold_5	79332822	79333035	MSTRG.17813.1	MSTRG.17813.1
scaffold_5	79947748	79947961	MSTRG.17819.1	MSTRG.17819.1
scaffold_5	80181148	80181348	MSTRG.17822.1	MSTRG.17822.1
scaffold_5	79997008	80009987	MSTRG.17824.3	MSTRG.17824.3
scaffold_5	81809275	81809498	MSTRG.17828.1	MSTRG.17828.1
scaffold_5	81910810	82510581	MSTRG.17836.1	MSTRG.17836.1
scaffold_5	86810461	86810678	MSTRG.17849.1	MSTRG.17849.1
scaffold_5	92773085	92787651	MSTRG.17866.6	MSTRG.17866.6
scaffold_5	70512127	70515478	NGP_g18259.t1	NGP_g18259.t1
scaffold_5	163524	163871	NT5D3_g17749.t1	NT5D3_g17749.t1
scaffold_5	50059586	50077201	PLPL2_g18085.t1	PLPL2_g18085.t1
scaffold_5	64046316	64102582	PTN13_g18167.t1	PTN13_g18167.t1
scaffold_5	2258418	2341520	TRXR3_g17767.t1	TRXR3_g17767.t1
scaffold_5	62993339	63041081	XYLB_g18149.t1	XYLB_g18149.t1
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scaffold_5	36158824	36159055	MSTRG.17438.1	NOTHING
scaffold_5	36640565	36671567	MSTRG.17443.2	NOTHING
scaffold_5	37656429	37656836	MSTRG.17451.1	NOTHING
scaffold_5	38189280	38190611	MSTRG.17453.1	NOTHING
scaffold_5	39284674	39284885	MSTRG.17462.1	NOTHING
scaffold_5	39474385	39474589	MSTRG.17463.1	NOTHING
scaffold_5	39872152	39872386	MSTRG.17468.1	NOTHING
scaffold_5	39881892	39882104	MSTRG.17469.1	NOTHING
scaffold_5	39793527	39798212	MSTRG.17470.5	NOTHING
scaffold_5	41868875	41869115	MSTRG.17482.1	NOTHING
scaffold_5	42302136	42302357	MSTRG.17483.1	NOTHING
scaffold_5	43408177	43453416	MSTRG.17492.1	NOTHING

scaffold_5	43607509	43607884	MSTRG.17497.1	NOTHING
scaffold_5	43714150	43747898	MSTRG.17498.1	NOTHING
scaffold_5	44274151	44275183	MSTRG.17505.1	NOTHING
scaffold_5	48602614	48602827	MSTRG.17517.1	NOTHING
scaffold_5	48611735	48611944	MSTRG.17518.1	NOTHING
scaffold_5	49611329	49611532	MSTRG.17520.1	NOTHING
scaffold_5	49730224	49823091	MSTRG.17521.1	NOTHING
scaffold_5	49734176	49823091	MSTRG.17521.3	NOTHING
scaffold_5	49777009	49788227	MSTRG.17522.1	NOTHING
scaffold_5	49805189	49811518	MSTRG.17523.1	NOTHING
scaffold_5	49054362	49097693	MSTRG.17524.10	NOTHING
scaffold_5	50793316	50795117	MSTRG.17531.1	NOTHING
scaffold_5	52476434	52486640	MSTRG.17534.2	NOTHING
scaffold_5	53766040	53766257	MSTRG.17537.1	NOTHING
scaffold_5	57414503	57414858	MSTRG.17541.1	NOTHING
scaffold_5	57856987	57857206	MSTRG.17548.1	NOTHING
scaffold_5	58661795	58661997	MSTRG.17556.1	NOTHING
scaffold_5	59211745	59211973	MSTRG.17561.1	NOTHING
scaffold_5	61788833	61835822	MSTRG.17571.1	NOTHING
scaffold_5	63044665	63044903	MSTRG.17583.1	NOTHING
scaffold_5	63930065	63930378	MSTRG.17599.1	NOTHING
scaffold_5	66423309	66480544	MSTRG.17611.1	NOTHING
scaffold_5	66423325	66480544	MSTRG.17611.3	NOTHING
scaffold_5	67345038	67345279	MSTRG.17620.1	NOTHING
scaffold_5	67901684	67938916	MSTRG.17623.2	NOTHING
scaffold_5	67970057	68000388	MSTRG.17624.1	NOTHING
scaffold_5	68063828	68064808	MSTRG.17626.1	NOTHING
scaffold_5	68076822	68088898	MSTRG.17627.1	NOTHING
scaffold_5	68076863	68088406	MSTRG.17627.2	NOTHING
scaffold_5	68150092	68171450	MSTRG.17630.2	NOTHING
scaffold_5	68225334	68244578	MSTRG.17632.1	NOTHING
scaffold_5	68236558	68236782	MSTRG.17634.1	NOTHING
scaffold_5	68309795	68326732	MSTRG.17638.2	NOTHING
scaffold_5	68495849	68496076	MSTRG.17640.1	NOTHING
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scaffold_5	70099544	70104329	MSTRG.17655.1	NOTHING
scaffold_5	70149543	70149756	MSTRG.17658.1	NOTHING
scaffold_5	70153267	70153530	MSTRG.17659.1	NOTHING
scaffold_5	70530611	70563159	MSTRG.17664.1	NOTHING
scaffold_5	70640870	70641077	MSTRG.17667.1	NOTHING
scaffold_5	70854932	70884793	MSTRG.17670.1	NOTHING
scaffold_5	70885221	70885804	MSTRG.17671.1	NOTHING
scaffold_5	70944626	70950771	MSTRG.17676.3	NOTHING
scaffold_5	71217087	71231123	MSTRG.17678.4	NOTHING
scaffold_5	71640175	71640400	MSTRG.17687.1	NOTHING

scaffold_5	71934170	71934385	MSTRG.17692.1	NOTHING
scaffold_5	71790152	71793767	MSTRG.17694.6	NOTHING
scaffold_5	72053237	72057413	MSTRG.17699.1	NOTHING
scaffold_5	72053429	72057413	MSTRG.17699.4	NOTHING
scaffold_5	72468225	72468441	MSTRG.17713.1	NOTHING
scaffold_5	72432100	72465434	MSTRG.17715.4	NOTHING
scaffold_5	72609197	72617930	MSTRG.17720.3	NOTHING
scaffold_5	73344142	73353582	MSTRG.17740.1	NOTHING
scaffold_5	73401983	73430215	MSTRG.17743.1	NOTHING
scaffold_5	73402240	73430215	MSTRG.17743.2	NOTHING
scaffold_5	73371779	73372000	MSTRG.17744.1	NOTHING
scaffold_5	73822949	73823176	MSTRG.17747.1	NOTHING
scaffold_5	74708386	74712806	MSTRG.17764.1	NOTHING
scaffold_5	74708545	74712806	MSTRG.17764.2	NOTHING
scaffold_5	74735681	74815102	MSTRG.17766.1	NOTHING
scaffold_5	75084265	75085073	MSTRG.17777.1	NOTHING
scaffold_5	75507628	75507850	MSTRG.17787.1	NOTHING
scaffold_5	75551096	75551324	MSTRG.17792.1	NOTHING
scaffold_5	77765081	77765371	MSTRG.17799.1	NOTHING
scaffold_5	78564166	78582301	MSTRG.17800.2	NOTHING
scaffold_5	78703111	78703333	MSTRG.17804.1	NOTHING
scaffold_5	78764236	78764454	MSTRG.17805.1	NOTHING
scaffold_5	79996762	80009987	MSTRG.17824.1	NOTHING
scaffold_5	81826888	81827107	MSTRG.17829.1	NOTHING
scaffold_5	81613923	81614154	MSTRG.17831.1	NOTHING
scaffold_5	80017076	80017307	MSTRG.17833.1	NOTHING
scaffold_5	81793190	81793409	MSTRG.17835.1	NOTHING
scaffold_5	86264144	86858490	MSTRG.17847.2	NOTHING
scaffold_5	88298433	88298771	MSTRG.17854.1	NOTHING
scaffold_5	91336501	91345811	MSTRG.17861.8	NOTHING
scaffold_5	92332724	92332942	MSTRG.17864.1	NOTHING
scaffold_5	92773083	92804177	MSTRG.17866.3	NOTHING
scaffold_5	92773083	92802477	MSTRG.17866.4	NOTHING
scaffold_5	92773085	92799830	MSTRG.17866.5	NOTHING
scaffold_5	41170557	41211366	NPHP3_g18040.t1	NPHP3
scaffold_5	41170557	41210907	NPHP3_g18040.t2	NPHP3
scaffold_5	73144619	73148179	NPRL2_g18350.t1	NPRL2
scaffold_5	50775978	50810746	NR1D2_g18089.t1	NR1D2
scaffold_5	50775678	50811747	MSTRG.17530.1	NR1D2
scaffold_5	44484135	44484337	MSTRG.17501.1	NR2C1
scaffold_5	6207845	6233325	NR2C2_g17811.t1	NR2C2
scaffold_5	70190974	70191843	NRADD_g18255.t1	NRADDP
scaffold_5	74930160	74939099	NT5D2_g18390.t1	NT5DC2
scaffold_5	74930036	74939099	MSTRG.17771.1	NT5DC2
scaffold_5	74930074	74939099	MSTRG.17771.2	NT5DC2

scaffold_5	42365392	42366881	NUD16_g18049.t1	NUDT16
scaffold_5	42364142	42366881	MSTRG.17485.1	NUDT16
scaffold_5	3276214	3277713	MSTRG.17098.12	NUP210
scaffold_5	3279443	3307481	MSTRG.17098.15	NUP210
scaffold_5	3322856	3343084	MSTRG.17098.19	NUP210
scaffold_5	3344085	3348744	MSTRG.17098.20	NUP210
scaffold_5	3258134	3270600	MSTRG.17098.7	NUP210
scaffold_5	11280781	11310586	MSTRG.17276.3	NUP210
scaffold_5	3271471	3275102	MSTRG.17098.10	NUP210
scaffold_5	3275885	3277867	MSTRG.17098.11	NUP210
scaffold_5	3278606	3348744	MSTRG.17098.13	NUP210
scaffold_5	3278606	3348744	MSTRG.17098.14	NUP210
scaffold_5	3279443	3287327	MSTRG.17098.16	NUP210
scaffold_5	3293198	3295829	MSTRG.17098.17	NUP210
scaffold_5	3295884	3348744	MSTRG.17098.18	NUP210
scaffold_5	3253496	3264875	MSTRG.17098.3	NUP210
scaffold_5	3254774	3278457	MSTRG.17098.4	NUP210
scaffold_5	3258134	3278457	MSTRG.17098.6	NUP210
scaffold_5	3261658	3277867	MSTRG.17098.9	NUP210
scaffold_5	11226227	11240699	MSTRG.17263.1	NUP210
scaffold_5	11264774	11278884	MSTRG.17274.1	NUP210
scaffold_5	11265632	11278884	MSTRG.17274.2	NUP210
scaffold_5	11280139	11310586	MSTRG.17276.1	NUP210
scaffold_5	11280281	11310586	MSTRG.17276.2	NUP210
scaffold_5	11287416	11305259	MSTRG.17276.4	NUP210
scaffold_5	80080863	80086765	ODPB_g18438.t1	ODPB
scaffold_5	10814661	10819209	OGG1_g17858.t1	OGG1
scaffold_5	10817418	10818663	MSTRG.17245.3	OGG1
scaffold_5	10832904	10837062	MSTRG.17247.1	OGG1
scaffold_5	66732963	66733177	MSTRG.17617.1	OR11H6
scaffold_5	57421579	57708642	OSB10_g18112.t1	OSB10
scaffold_5	57420403	57420892	MSTRG.17545.1	OSBPL10
scaffold_5	57491779	57708642	MSTRG.17546.2	OSBPL10
scaffold_5	44288484	44317098	OXND1_g18067.t1	OXND1
scaffold_5	52483225	52486640	OXSM_g18095.t1	OXSM
scaffold_5	52482877	52486640	OXSM_g18095.t2	OXSM
scaffold_5	52475701	52486640	MSTRG.17534.1	OXSM
scaffold_5	62835463	62922857	OXSR1_g18146.t1	OXSR1
scaffold_5	38326479	38444622	P2R3A_g18021.t1	P2R3A
scaffold_5	24189784	24191464	P2RY1_g17918.t1	P2RY1
scaffold_5	24186548	24191464	MSTRG.17335.2	P2RY1
scaffold_5	25520822	25521040	MSTRG.17340.1	P2RY12
scaffold_5	25639924	25640937	P2Y14_g17930.t1	P2RY14
scaffold_5	72030232	72045881	P4HTM_g18293.t1	P4HTM
scaffold_5	72030206	72053271	MSTRG.17698.1	P4HTM

scaffold_5	74948411	75064156	MSTRG.17773.4	PBRM1
scaffold_5	74948411	75064156	MSTRG.17773.5	PBRM1
scaffold_5	74950886	75064156	MSTRG.17773.6	PBRM1
scaffold_5	74945164	75064156	MSTRG.17773.1	PBRM1
scaffold_5	74946580	75064156	MSTRG.17773.2	PBRM1
scaffold_5	74948411	75064156	MSTRG.17773.3	PBRM1
scaffold_5	75013776	75019704	MSTRG.17773.8	PBRM1
scaffold_5	58085249	58085503	PC11X_g18116.t1	PCDH11X
scaffold_5	74437818	74440127	PCBP4_g18372.t2	DHX58
scaffold_5	74425860	74426125	MSTRG.17750.1	PCBP4
scaffold_5	74426275	74429531	PCBP4_g18372.t1	PCBP4
scaffold_5	38190891	38260191	PCCB_g18019.t1	PCCB
scaffold_5	32740197	32809892	PCOC2_g17971.t1	PCOC2
scaffold_5	59212507	59279126	PDC6I_g18129.t1	PDCD6IP
scaffold_5	59247612	59279126	MSTRG.17564.2	PDCD6IP
scaffold_5	59279399	59281801	MSTRG.17563.1	PDCD6IP
scaffold_5	79361443	79367039	PDE12_g18427.t1	PDE12
scaffold_5	79361443	79368368	MSTRG.17814.2	PDE12
scaffold_5	43422144	43461330	MSTRG.17493.3	PEX3
scaffold_5	71628111	71632438	MSTRG.17686.1	PFKFB4
scaffold_5	26734095	26740072	MSTRG.17356.1	PFN2
scaffold_5	26734095	26740072	MSTRG.17356.2	PFN2
scaffold_5	71334625	71335972	PG2_g18272.t1	PG2
scaffold_5	74825458	74836094	PHF7_g18385.t1	PHF7
scaffold_5	17277325	17287135	PIGR_g17885.t2	PIGR
scaffold_5	36112491	36289134	MSTRG.17437.1	PIK3CB
scaffold_5	36112497	36289134	MSTRG.17437.2	PIK3CB
scaffold_5	42841374	42911573	MSTRG.17487.2	PIK3R4
scaffold_5	42841357	42911573	MSTRG.17487.1	PIK3R4
scaffold_5	41312417	41315832	PITM2_g18044.t1	PITM2
scaffold_5	36189810	36289134	PK3CB_g18002.t1	PIK3CB
scaffold_5	62682235	62711266	MSTRG.17578.1	PLCD1
scaffold_5	62696244	62711266	MSTRG.17578.3	PLCD1
scaffold_5	62683066	62706408	PLCD1_g18142.t1	PLCD1
scaffold_5	44917294	44934596	HYALP_g18071.t1	PLCL2
scaffold_5	26862856	26891448	PLCL2_g17943.t1	PLCL2
scaffold_5	44759467	44903460	PLCL2_g18070.t1	PLCL2
scaffold_5	6333014	6333353	MSTRG.17175.1	PLD3
scaffold_5	7011276	7011489	MSTRG.17193.1	PLEKHA7
scaffold_5	29882239	29942031	PLOD2_g17962.t1	PLOD2
scaffold_5	29882077	29972618	MSTRG.17379.1	PLOD2
scaffold_5	29882077	29972618	MSTRG.17379.2	PLOD2
scaffold_5	29882078	29972618	MSTRG.17379.3	PLOD2
scaffold_5	29813765	29837170	PLS4_g17961.t1	PLS4
scaffold_5	29648722	29668602	PLS5_g17959.t1	PLSCR5

scaffold_5	71537465	71557761	PLXB1_g18276.t1	PLXB1
scaffold_5	5674149	5724658	PLXD1_g17806.t1	PLXD1
scaffold_5	1897543	1950288	MSTRG.17072.3	PLXNA1
scaffold_5	1894760	1950288	MSTRG.17072.1	PLXNA1
scaffold_5	1894762	1945399	MSTRG.17072.2	PLXNA1
scaffold_5	71536203	71562869	MSTRG.17682.1	PLXNB1
scaffold_5	66808566	66810308	PMGT2_g18197.t1	POMGNT2
scaffold_5	3259066	3348744	PO210_g17777.t1	NUP210
scaffold_5	74573068	74573566	POC1A_g18377.t2	POC1A
scaffold_5	1304535	1342496	MSTRG.17067.1	PODXL2
scaffold_5	47435650	47454667	PP2D1_g18077.t1	PP2D1
scaffold_5	41485903	41530251	PPAP_g18046.t1	PPAP
scaffold_5	9002435	9137810	MSTRG.17222.2	PPARG
scaffold_5	8995694	9137810	PPARG_g17837.t1	PPARG
scaffold_5	9002662	9137810	MSTRG.17222.3	PPARG
scaffold_5	9002718	9137810	MSTRG.17222.4	PPARG
scaffold_5	74663344	74675790	MSTRG.17762.1	PPM1M
scaffold_5	74663533	74675790	MSTRG.17762.2	PPM1M
scaffold_5	74663533	74675790	MSTRG.17762.3	PPM1M
scaffold_5	38323934	38487119	MSTRG.17459.2	PPP2R3A
scaffold_5	92997410	93003365	MSTRG.17868.1	PPP4R2
scaffold_5	38323423	38487119	MSTRG.17459.1	PPPR3A
scaffold_5	35937001	35937792	PR23A_g17998.t1	PRR23A
scaffold_5	3258057	3268908	MSTRG.17098.5	PRAME
scaffold_5	62591446	62591668	MSTRG.17575.1	PRAP1
scaffold_5	85081994	85385970	PRIC2_g18457.t1	PRIC2
scaffold_5	71826701	71866552	MSTRG.17694.8	PRKAR2A
scaffold_5	75474702	75505754	MSTRG.17789.1	PRKCD
scaffold_5	71016601	71016855	PROP_g18267.t1	PROP1
scaffold_5	10978473	10988830	MSTRG.17261.1	PRRT3
scaffold_5	69946973	69962645	PRS46_g18246.t1	PRS46
scaffold_5	84989137	85006075	MSTRG.17841.1	PSMD6
scaffold_5	9942721	9943614	PTH1R_g17846.t1	PTH1R
scaffold_5	70530611	70563159	PTN23_g18260.t1	PTN23
scaffold_5	82757217	83445413	MSTRG.17839.2	PTPRG
scaffold_5	82757060	83445413	MSTRG.17839.1	PTPRG
scaffold_5	3744069	3747256	PUR2_g17781.t1	PUR2
scaffold_5	3496026	3498775	PWP3A_g17779.t1	PWP3A
scaffold_5	80079909	80080536	MSTRG.17834.1	PXK
scaffold_5	34041755	34057356	PXYP1_g17987.t1	PXYP1
scaffold_5	11683176	11705196	PZRN3_g17871.t2	PDZRN3
scaffold_5	72113510	72120984	MSTRG.17702.2	QARS1
scaffold_5	72113510	72120984	MSTRG.17702.1	QARS
scaffold_5	71709747	71718372	QCR1_g18284.t1	UQCRC1
scaffold_5	72066727	72100918	QRIC1_g18299.t1	QRICH1

scaffold_5	72066727	72112418	MSTRG.17701.3	QRICH1
scaffold_5	72107306	72112182	MSTRG.17701.5	QRICH1
scaffold_5	4055039	4084125	MSTRG.17118.2	RAB43
scaffold_5	4055039	4084125	RAB43_g17786.t1	RAB43
scaffold_5	4053671	4054723	MSTRG.17117.1	RAB43
scaffold_5	47403182	47435650	MSTRG.17512.1	RAB5A
scaffold_5	47407117	47435650	RAB5A_g18076.t1	RAB5A
scaffold_5	176018	237111	MSTRG.17059.1	RAB7A
scaffold_5	177368	207882	RAB7A_g17750.t1	RAB7A
scaffold_5	21621468	21750188	RAD18_g17901.t1	RAD18
scaffold_5	74028858	74144499	MSTRG.17752.1	RAD54L2
scaffold_5	74144729	74182291	MSTRG.17753.1	RAD54L2
scaffold_5	74144729	74155896	MSTRG.17753.2	RAD54L2
scaffold_5	9300333	9327134	RAF1_g17841.t1	RAF1
scaffold_5	23970192	23970743	RAP2B_g17917.t1	RAP2B
scaffold_5	33756530	33866086	RASA2_g17985.t1	RASA2
scaffold_5	33753481	33866086	MSTRG.17402.1	RASA2
scaffold_5	33792611	33866086	MSTRG.17402.3	RASA2
scaffold_5	73130448	73135870	RASF1_g18348.t1	RASSF1
scaffold_5	36505819	36534612	RASM_g18007.t1	RASM
scaffold_5	73909980	73913201	RB15B_g18361.t1	RBM15B
scaffold_5	72931337	72957215	MSTRG.17724.1	RBM5
scaffold_5	72931337	72957215	MSTRG.17724.2	RBM5
scaffold_5	72931338	72957215	MSTRG.17724.3	RBM5
scaffold_5	72932825	72957215	RBM5_g18337.t1	RBM5
scaffold_5	72811927	72923781	MSTRG.17723.1	RBM6
scaffold_5	72814032	72923781	MSTRG.17723.2	RBM6
scaffold_5	72814229	72870225	MSTRG.17723.4	RBM6
scaffold_5	72836411	72923781	RBM6_g18336.t1	RBM6
scaffold_5	55278235	55283123	MSTRG.17542.1	RBMS3
scaffold_5	55281819	55955801	MSTRG.17543.1	RBMS3
scaffold_5	55282728	55955801	MSTRG.17543.2	RBMS3
scaffold_5	55283741	55949998	RBMS3_g18106.t1	RBMS3
scaffold_5	6122189	6122986	RBNS5_g17809.t1	RBSN
scaffold_5	6147671	6174519	RBNS5_g17809.t2	RBSN
scaffold_5	6144672	6177242	MSTRG.17173.1	RBSN
scaffold_5	33661751	33667531	RBX2_g17982.t1	RNF7
scaffold_5	75410152	75444599	RFT1_g18405.t1	RFT1
scaffold_5	75407365	75407696	MSTRG.17778.1	RFT1
scaffold_5	75409758	75444599	MSTRG.17786.1	RFT1
scaffold_5	44332407	44392529	RFTN1_g18068.t1	RFTN1
scaffold_5	66678793	66680092	MSTRG.17616.1	RGS17
scaffold_5	79376980	79377204	MSTRG.17810.1	RGS7
scaffold_5	72308970	72367131	MSTRG.17710.1	RHOA
scaffold_5	57190027	57190410	RL10_g18109.t1	RPL10

scaffold_5	64751450	64762556	RL14_g18171.t1	RPL14
scaffold_5	50742647	50746749	RL15_g18088.t1	RPL15
scaffold_5	74456123	74457871	RL29_g18375.t1	RPL29
scaffold_5	21738058	21738435	RL31_g17903.t1	RPL31
scaffold_5	42251871	42292553	RM03_g18048.t1	MRPL3
scaffold_5	72590532	72614527	RN123_g18323.t1	RNF123
scaffold_5	72588881	72617930	MSTRG.17720.1	RNF123
scaffold_5	72612791	72689394	MSTRG.17721.1	RNF123
scaffold_5	72616451	72620127	MSTRG.17721.3	RNF123
scaffold_5	26742417	26891448	MSTRG.17358.1	RNF13
scaffold_5	26743931	26862855	RNF13_g17941.t1	RNF13
scaffold_5	29736558	29736771	MSTRG.17371.1	RNF217
scaffold_5	33658435	33667531	MSTRG.17397.1	RNF7
scaffold_5	33658435	33667531	MSTRG.17397.2	RNF7
scaffold_5	33660972	33667531	MSTRG.17397.3	RNF7
scaffold_5	72778613	72790765	RON_g18333.t1	MST1R
scaffold_5	50742596	50746749	MSTRG.17525.1	RPL15
scaffold_5	74455933	74458355	MSTRG.17758.1	RPL29
scaffold_5	302688	326439	RPN1_g17751.t1	RPN1
scaffold_5	80000544	80006362	RPP14_g18436.t1	RPP14
scaffold_5	74404026	74411508	MSTRG.17756.1	RRP9
scaffold_5	79557234	79557653	RS4_g18431.t1	RS4
scaffold_5	63933646	63938312	RSSA_g18165.t1	RSSA
scaffold_5	35680212	35696285	RT22_g17996.t1	RT22
scaffold_5	6181779	6199167	RT25_g17810.t1	RT25
scaffold_5	810939	849680	RUVB1_g17755.t1	RUVBL1
scaffold_5	847636	849680	MSTRG.17064.4	RUVBL1
scaffold_5	810890	835485	MSTRG.17064.1	RUVBL1
scaffold_5	92391508	92467354	RYBP_g18483.t1	RYBP
scaffold_5	39886187	39918695	RYK_g18027.t1	RYK
scaffold_5	39923556	39984860	RYK_g18028.t1	RYK
scaffold_5	39927464	39984860	RYK_g18028.t2	RYK
scaffold_5	66408916	66411507	S18L2_g18186.t1	SS18L2
scaffold_5	62932712	62941274	S22AD_g18147.t1	SLC22A13
scaffold_5	34296895	34331174	S2536_g17989.t1	SLC25A36
scaffold_5	63891382	63903364	S2538_g18163.t1	SLC25A38
scaffold_5	37736034	37737272	S35G2_g18017.t1	SLC35G2
scaffold_5	2456528	2490269	S41A3_g17770.t1	SLC41A3
scaffold_5	860350	877277	S61A1_g17756.t1	S61A1
scaffold_5	69092168	69160874	SAC1_g18224.t1	SAC1
scaffold_5	69162367	69162577	MSTRG.17647.1	SACM1L
scaffold_5	69160896	69161211	MSTRG.17649.1	SACM1L
scaffold_5	87017037	87165789	SAMC_g18465.t1	SLC25A26
scaffold_5	46039295	46111096	SATB1_g18073.t1	SATB1
scaffold_5	5095766	5097087	MSTRG.17131.1	SBSPON

scaffold_5	66378731	66391012	SC22C_g18185.t1	SC22C
scaffold_5	5048698	5087299	SC6A6_g17799.t1	SLC6A6
scaffold_5	70563440	70630547	MSTRG.17665.1	SCAP
scaffold_5	70563440	70630547	MSTRG.17665.2	SCAP
scaffold_5	63163464	63245460	SCN5A_g18152.t1	SCN5A
scaffold_5	7141993	7170601	MSTRG.17205.1	SEC13
scaffold_5	859804	877277	MSTRG.17065.1	SEC61A1
scaffold_5	534855	791226	SELB_g17754.t1	EEFSEC
scaffold_5	76124799	76131213	MSTRG.17795.1	SELENOK
scaffold_5	26123515	26144979	MSTRG.17349.2	SELENOT
scaffold_5	26123515	26128183	SELT_g17935.t1	SELT
scaffold_5	73086685	73093823	SEM3B_g18342.t1	SEMA3B
scaffold_5	73086661	73093823	SEM3B_g18342.t2	SEMA3B
scaffold_5	72991058	73015493	SEM3F_g18338.t1	SEM3F
scaffold_5	73086661	73093823	MSTRG.17727.2	SEMA3B
scaffold_5	73086618	73093823	MSTRG.17727.1	SEMA3B
scaffold_5	74847433	74856916	MSTRG.17765.1	SEMA3G
scaffold_5	9185104	9219952	SEN2_g17838.t1	TSEN2
scaffold_5	9184975	9219952	SEN2_g17838.t2	TSEN2
scaffold_5	26210932	26216740	MSTRG.17353.1	SERP1
scaffold_5	26211418	26216740	SERP1_g17937.t1	SERP1
scaffold_5	70194468	70334062	MSTRG.17663.2	SETD2
scaffold_5	70194638	70264153	MSTRG.17663.3	SETD2
scaffold_5	70194277	70334062	MSTRG.17663.1	SETD2
scaffold_5	10543111	10619076	MSTRG.17243.1	SETD5
scaffold_5	10543111	10619076	MSTRG.17243.2	SETD5
scaffold_5	10543117	10619076	MSTRG.17243.3	SETD5
scaffold_5	10543117	10619076	MSTRG.17243.4	SETD5
scaffold_5	10543119	10619076	MSTRG.17243.5	SETD5
scaffold_5	10543183	10619076	MSTRG.17243.6	SETD5
scaffold_5	10579261	10619076	SETD5_g17853.t1	SETD5
scaffold_5	17287158	17295597	MSTRG.17300.1	SETMAR
scaffold_5	17287192	17295597	MSTRG.17300.2	SETMAR
scaffold_5	75254092	75367945	MSTRG.17784.1	SFMBT1
scaffold_5	47582193	47593318	SGO1_g18079.t1	SGO1
scaffold_5	47580067	47595558	MSTRG.17516.1	SGO1
scaffold_5	71596910	71599964	MSTRG.17680.1	SHISA5
scaffold_5	71596910	71599964	MSTRG.17680.2	SHISA5
scaffold_5	75516446	75516660	MSTRG.17788.1	SHISAL2B
scaffold_5	64980370	64982075	SHPS1_g18175.t1	SIRPA
scaffold_5	92710523	92787651	MSTRG.17866.1	SHQ1
scaffold_5	71598029	71620934	SHSA5_g18280.t1	SHISA5
scaffold_5	26014104	26030787	SIAH2_g17933.t1	SIAH2
scaffold_5	31888299	32134130	SL9A9_g17966.t1	SLC9A9
scaffold_5	71939484	71969314	MCAT_g18291.t1	SLC25A20

scaffold_5	63891067	63903364	MSTRG.17598.1	SLC25A38
scaffold_5	34293044	34331174	MSTRG.17411.1	SLC25A6
scaffold_5	21935287	21951140	MSTRG.17314.1	SLC33A1
scaffold_5	21957296	21957739	MSTRG.17317.1	SLC33A1
scaffold_5	53669081	53778189	S4A10_g18099.t1	SLC4A7
scaffold_5	53685803	53778189	MSTRG.17535.2	SLC4A7
scaffold_5	5087726	5087928	MSTRG.17129.1	SLC6A6
scaffold_5	5134368	5134788	MSTRG.17139.1	SLC6A6
scaffold_5	5132826	5133137	MSTRG.17137.1	SLC6A6
scaffold_5	5135807	5136112	MSTRG.17140.1	SLC6A6
scaffold_5	5009049	5087299	MSTRG.17144.1	SLC6A6
scaffold_5	79517633	79676941	MSTRG.17817.1	SLMAP
scaffold_5	79517633	79676941	MSTRG.17817.2	SLMAP
scaffold_5	79517645	79722272	MSTRG.17817.3	SLMAP
scaffold_5	79517645	79732022	MSTRG.17817.4	SLMAP
scaffold_5	79517645	79661870	MSTRG.17817.5	SLMAP
scaffold_5	79517645	79661870	MSTRG.17817.6	SLMAP
scaffold_5	79518729	79732022	MSTRG.17817.7	SLMAP
scaffold_5	6994223	6994549	MSTRG.17191.1	SLPI
scaffold_5	70719254	70888743	MSTRG.17669.5	SMARCC1
scaffold_5	75259714	75315275	SMBT1_g18403.t1	SMBT1
scaffold_5	74939868	74946525	MSTRG.17772.1	SMIM4
scaffold_5	74941372	74946525	MSTRG.17772.2	SMIM4
scaffold_5	74942069	74946525	SMIM4_g18391.t1	SMIM4
scaffold_5	70720234	70898552	SMRC1_g18264.t1	SMARCC1
scaffold_5	66974798	67042740	MSTRG.17618.1	SNRK
scaffold_5	66974806	67042740	MSTRG.17618.2	SNRK
scaffold_5	66974806	67038530	SNRK_g18199.t1	SNRK
scaffold_5	37028687	37029409	SOX14_g18013.t1	SOX14
scaffold_5	75081434	75082745	SPCS1_g18395.t1	SPCS1
scaffold_5	71774474	71783444	SPN90_g18287.t1	NCKIPSD
scaffold_5	34161598	34221607	SPSB4_g17988.t1	SPSB4
scaffold_5	34161537	34237318	MSTRG.17407.1	SPSB4
scaffold_5	34161538	34165805	MSTRG.17407.2	SPSB4
scaffold_5	43575503	43576013	MSTRG.17491.1	SPTB
scaffold_5	32587792	32664229	SR140_g17969.t1	U2SURP
scaffold_5	4213489	4213879	MSTRG.17120.1	SRGAP3
scaffold_5	10187688	10188125	MSTRG.17236.1	SRGAP3
scaffold_5	10181005	10186228	SRGP3_g17850.t1	SRGP3
scaffold_5	10188153	10423948	SRGP3_g17851.t1	SRGP3
scaffold_5	40263011	40287044	MSTRG.17472.1	SRPRB
scaffold_5	40264145	40287607	SRPRB_g18032.t1	SRPRB
scaffold_5	74902107	74930036	STAB1_g18389.t2	STAB1
scaffold_5	61303577	61455696	MSTRG.17566.2	STAC
scaffold_5	61303466	61455696	MSTRG.17566.1	STAC

scaffold_5	37932705	38182703	STAG1_g18018.t1	STAG1
scaffold_5	38183944	38184732	MSTRG.17452.1	STAG1
scaffold_5	37830877	38183646	MSTRG.17455.1	STAG1
scaffold_5	75190241	75252261	MSTRG.17782.1	STIMATE
scaffold_5	57284960	57397793	MSTRG.17544.1	STT3B
scaffold_5	57285037	57397793	MSTRG.17544.2	STT3B
scaffold_5	57285394	57388466	STT3B_g18111.t1	STT3B
scaffold_5	88005653	88258470	SUCB2_g18471.t1	SUCB2
scaffold_5	24991981	24996375	SUCR1_g17922.t1	SUCNR1
scaffold_5	24991981	25024323	SUCR1_g17922.t2	SUCNR1
scaffold_5	17318657	17412051	SUMF1_g17887.t1	SUMF1
scaffold_5	35766241	35766498	MSTRG.17424.1	SUSD2
scaffold_5	68809784	68978709	SYLM_g18222.t1	SYLM
scaffold_5	8905661	8913336	MSTRG.17219.3	SYN2
scaffold_5	8732555	8913336	SYN2_g17835.t1	SYN2
scaffold_5	8870821	8954648	MSTRG.17219.2	SYN2
scaffold_5	4722973	4723257	APT_g17794.t1	SYNM
scaffold_5	72114065	72120984	SYQ_g18300.t1	QARS1
scaffold_5	26288847	26336193	T22D2_g17938.t1	T22D2
scaffold_5	27303923	27324660	T4S18_g17949.t1	T4S18
scaffold_5	27154257	27175277	T4S4_g17947.t1	T4S4
scaffold_5	10839819	10851297	MSTRG.17248.1	TADA3
scaffold_5	10839819	10851054	MSTRG.17248.2	TADA3
scaffold_5	10840702	10850104	TADA3_g17859.t1	TADA3
scaffold_5	8613141	8656766	TAM41_g17834.t1	TAMM41
scaffold_5	7096897	7119231	TATD2_g17822.t1	TATD2
scaffold_5	7096531	7123517	MSTRG.17204.2	TATDN2
scaffold_5	7096897	7123517	MSTRG.17204.3	TATDN2
scaffold_5	7096345	7123517	MSTRG.17204.1	TATDN2
scaffold_5	44994137	45531650	MSTRG.17511.1	TBC1D5
scaffold_5	44997443	45335239	TBCD5_g18072.t1	TBCD5
scaffold_5	67887509	67911661	TCAIM_g18204.t1	TCAIM
scaffold_5	72367003	72370529	MSTRG.17711.1	TCTA
scaffold_5	72367286	72370529	MSTRG.17711.2	TCTA
scaffold_5	72367584	72370529	TCTA_g18314.t1	TCTA
scaffold_5	69834490	69837661	TDGF1_g18241.t1	TDGF1
scaffold_5	90246345	90255805	MSTRG.17859.2	TEDC1
scaffold_5	68493353	68503118	TETN_g18219.t1	CLEC3B
scaffold_5	33324239	33488912	MSTRG.17395.3	TFDP2
scaffold_5	33324022	33495773	MSTRG.17395.1	TFDP2
scaffold_5	33324239	33488912	MSTRG.17395.2	TFDP2
scaffold_5	56439425	56541477	TGFR2_g18107.t1	TGFBR2
scaffold_5	62792473	62802186	THIK_g18144.t1	ACAA1
scaffold_5	84826545	84846275	MSTRG.17842.1	THOC7
scaffold_5	84826545	84846275	MSTRG.17842.2	THOC7

scaffold_5	84826551	84846275	MSTRG.17842.3	THOC7
scaffold_5	84828357	84846275	MSTRG.17842.4	THOC7
scaffold_5	84831051	84846275	THOC7_g18453.t1	THOC7
scaffold_5	10511252	10531814	THUM3_g17852.t1	THUMPD3
scaffold_5	10509649	10535568	MSTRG.17239.1	THUMPD3
scaffold_5	70157900	70188323	MSTRG.17660.1	TIE1
scaffold_5	70639869	70640475	MSTRG.17666.1	TIGD1
scaffold_5	8875599	8881527	TIMP4_g17836.t1	TIMP4
scaffold_5	8868920	8881527	MSTRG.17220.1	TIMP4
scaffold_5	40618742	40773001	TM108_g18037.t1	TM108
scaffold_5	73151801	73155979	TM115_g18352.t1	TM115
scaffold_5	5758989	5804111	MSTRG.17161.3	TMCC1
scaffold_5	5762547	5935390	TMCC1_g17807.t1	TMCC1
scaffold_5	5758925	6015555	MSTRG.17161.1	TMCC1
scaffold_5	5758989	5804111	MSTRG.17161.2	TMCC1
scaffold_5	14551071	14596813	MSTRG.17295.2	TMEM117
scaffold_5	68334613	68338161	MSTRG.17636.1	TMEM42
scaffold_5	4746099	4765644	MSTRG.17133.2	TMEM43
scaffold_5	4746038	4765644	MSTRG.17133.1	TMEM43
scaffold_5	89427667	89456331	MSTRG.17856.2	TMF1
scaffold_5	89386380	89415560	TMF1_g18472.t1	TMF1
scaffold_5	89427667	89456331	TMF1_g18472.t2	TMF1
scaffold_5	89426116	89427195	MSTRG.17855.1	TMF1
scaffold_5	89451479	89456331	MSTRG.17856.3	TMF1
scaffold_5	9419170	9482968	TMM40_g17842.t1	TMM40
scaffold_5	4746252	4765644	TMM43_g17796.t1	TMM43
scaffold_5	71727223	71728114	TMM89_g18285.t1	TMM89
scaffold_5	58599497	58600840	TMPPE_g18123.t1	TMPPE
scaffold_5	74862654	74866941	MSTRG.17768.1	TNNC1
scaffold_5	52320525	52384097	MSTRG.17532.1	TOP2B
scaffold_5	52320526	52384097	MSTRG.17532.2	TOP2B
scaffold_5	40394932	40455210	TOPB1_g18034.t1	TOPBP1
scaffold_5	40394127	40455714	MSTRG.17475.1	TOPBP1
scaffold_5	67807333	67885091	TOPZ1_g18203.t1	TOPZ1
scaffold_5	72406058	72447543	TOPZ1_g18317.t1	TOPZ1
scaffold_5	1383299	1399220	MSTRG.17069.1	TPRA1
scaffold_5	1383898	1399220	MSTRG.17069.2	TPRA1
scaffold_5	72723827	72747464	TRAIP_g18330.t1	TRAIP
scaffold_5	65937072	66118307	MSTRG.17608.2	TRAK1
scaffold_5	65926490	66117146	TRAK1_g18180.t1	TRAK1
scaffold_5	71595672	71596616	TREX1_g18279.t1	TREX1
scaffold_5	40292593	40321546	TRFE_g18033.t1	TF
scaffold_5	40341800	40382545	TRFE_g18033.t2	TF
scaffold_5	69705136	69733681	TRFL_g18238.t1	LTF
scaffold_5	6080844	6082194	TRH_g17808.t1	TRH

scaffold_5	61650408	61747354	TRNK1_g18134.t1	TRANK1
scaffold_5	16231200	16250674	MSTRG.17294.1	TRNT1
scaffold_5	16232090	16250674	TRNT1_g17882.t1	TRNT1
scaffold_5	16232213	16250674	TRNT1_g17882.t2	TRNT1
scaffold_5	54667964	54669308	TRPB_g18105.t1	TRPB
scaffold_5	32820203	32820507	MSTRG.17386.1	TRPC1
scaffold_5	32821118	32882165	MSTRG.17388.1	TRPC1
scaffold_5	32821129	32878232	MSTRG.17388.2	TRPC1
scaffold_5	32821558	32882165	TRPC1_g17972.t1	TRPC1
scaffold_5	26287300	26336193	MSTRG.17354.1	TSC22D2
scaffold_5	26284907	26285199	MSTRG.17355.1	TSC22D2
scaffold_5	26285968	26286229	MSTRG.17357.1	TSC22D2
scaffold_5	63643274	63675618	TT21A_g18157.t1	TTC21A
scaffold_5	10865432	10889367	TTLL3_g17861.t1	TTLL3
scaffold_5	73127155	73128795	TUSC2_g18347.t1	TUSC2
scaffold_5	74654124	74663236	TWF2_g18379.t1	TWF2
scaffold_5	74155133	74182291	TX264_g18364.t1	TEX264
scaffold_5	74404117	74411508	U3IP2_g18369.t1	RRP9
scaffold_5	89458935	89480699	UBA3_g18473.t1	UBA3
scaffold_5	41215223	41228677	UBA5_g18041.t1	UBA5
scaffold_5	41212106	41228677	MSTRG.17478.1	UBA5
scaffold_5	72704817	72713376	UBA7_g18329.t1	UBA7
scaffold_5	50645668	50717984	MSTRG.17527.1	UBE2E1
scaffold_5	50107584	50455773	MSTRG.17526.1	UBE2E2
scaffold_5	58867705	58921906	UBIP1_g18127.t1	UBP1
scaffold_5	58865732	58921906	MSTRG.17560.1	UBP1
scaffold_5	58865745	58921906	MSTRG.17560.2	UBP1
scaffold_5	58865799	58921906	MSTRG.17560.3	UBP1
scaffold_5	72124330	72133783	UBP19_g18301.t1	UBP19
scaffold_5	72255125	72298219	UBP4_g18310.t1	UBP4
scaffold_5	65377424	65905426	ULK4_g18179.t1	ULK4
scaffold_5	71709565	71718372	MSTRG.17689.1	UQCRC1
scaffold_5	72123783	72135512	MSTRG.17704.1	USP19
scaffold_5	72123783	72135512	MSTRG.17704.2	USP19
scaffold_5	72124330	72135512	MSTRG.17704.3	USP19
scaffold_5	72133001	72133954	MSTRG.17704.5	USP19
scaffold_5	8398173	8479348	VGLL4_g17832.t1	VGLL4
scaffold_5	8398081	8559185	MSTRG.17218.1	VGLL4
scaffold_5	7018322	7026556	MSTRG.17201.2	VHL
scaffold_5	7019358	7025445	VHL_g17820.t1	VHL
scaffold_5	7018322	7026556	MSTRG.17201.1	VHL
scaffold_5	7018434	7026556	MSTRG.17201.3	VHL
scaffold_5	7020995	7039154	MSTRG.17201.5	VHL
scaffold_5	62673954	62682435	MSTRG.17577.2	VILL
scaffold_5	62622865	62655137	VILL_g18141.t1	VILL

scaffold_5	62668191	62682435	VILL_g18141.t2	VILL
scaffold_5	63586191	63627204	WDR48_g18155.t1	WDR48
scaffold_5	63586165	63632306	MSTRG.17591.1	WDR48
scaffold_5	72046129	72053271	MSTRG.17698.3	WDR6
scaffold_5	72046129	72053060	WDR6_g18294.t1	WDR6
scaffold_5	72053309	72053722	MSTRG.17699.3	WDR6
scaffold_5	74680722	74697303	WDR82_g18381.t1	WDR82
scaffold_5	74677928	74690681	MSTRG.17763.1	WDR82
scaffold_5	77501935	77502687	MSTRG.17796.1	WNT5A
scaffold_5	77503716	77517554	MSTRG.17797.1	WNT5A
scaffold_5	77506199	77522836	WNT5A_g18418.t1	WNT5A
scaffold_5	27011182	27132740	WWTR1_g17946.t1	WWTR1
scaffold_5	27010372	27135069	MSTRG.17361.1	WWTR1
scaffold_5	33113361	33229713	MSTRG.17394.3	XRN1
scaffold_5	33113361	33225780	XRN1_g17975.t1	XRN1
scaffold_5	33113361	33229713	MSTRG.17394.1	XRN1
scaffold_5	33181517	33229713	MSTRG.17394.4	XRN1
scaffold_5	48966885	49441997	Z385B_g18084.t2	Z385B
scaffold_5	48624043	48638504	Z385D_g18082.t1	Z385D
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scaffold_5	48685767	48901814	Z385D_g18083.t1	Z385D
scaffold_5	48700356	48901814	Z385D_g18083.t2	Z385D
scaffold_5	71898085	71899389	ZAN_g18290.t1	ZAN
scaffold_5	33907649	33911236	ZBT38_g17986.t1	ZBTB38
scaffold_5	66485418	66497134	ZBT47_g18188.t1	ZBT47
scaffold_5	11238520	11239368	MSTRG.17264.1	ZBTB25
scaffold_5	33904044	33949485	MSTRG.17401.1	ZBTB38
scaffold_5	33904044	33949144	MSTRG.17401.2	ZBTB38
scaffold_5	54548891	54626620	ZCPW2_g18104.t1	ZCWPW2
scaffold_5	68401460	68432451	ZDHC3_g18216.t1	ZDHHC3
scaffold_5	68391768	68432451	MSTRG.17641.1	ZDHHC3
scaffold_5	68399323	68448473	MSTRG.17641.2	ZDHHC3
scaffold_5	68399323	68448473	MSTRG.17641.3	ZDHHC3
scaffold_5	68095225	68106146	ZKSC7_g18207.t1	ZKSCAN7
scaffold_5	73139290	73143397	ZMY10_g18349.t1	ZMYND10
scaffold_5	68156480	68171450	ZN197_g18209.t1	ZNF197
scaffold_5	67975672	67983701	ZN445_g18206.t1	ZNF445
scaffold_5	68244766	68245581	ZN501_g18213.t1	ZNF501
scaffold_5	64755033	64768498	ZN619_g18172.t1	ZNF619
scaffold_5	64793793	64803129	ZN621_g18173.t1	ZNF621
scaffold_5	68121957	68124598	ZN660_g18208.t1	ZNF660
scaffold_5	66668054	66675315	ZN662_g18194.t1	ZNF772
scaffold_5	36779992	36780218	MSTRG.17448.1	ZNF146
scaffold_5	11261861	11262063	MSTRG.17269.1	ZNF181
scaffold_5	68174193	68193627	MSTRG.17631.1	ZNF197

scaffold_5	68177057	68185649	ZNF35_g18210.t1	ZNF197
scaffold_5	68199691	68200287	ZNF3_g18211.t1	ZNF3
scaffold_5	6942692	6944884	MSTRG.17198.1	ZNF383
scaffold_5	48621039	48901814	MSTRG.17524.1	ZNF385D
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scaffold_5	48623930	49441997	MSTRG.17524.4	ZNF385D
scaffold_5	39490544	39494070	MSTRG.17465.1	ZNF416
scaffold_5	68233043	68233254	MSTRG.17633.1	ZNF502
scaffold_5	49402825	49439203	MSTRG.17524.15	ZNF576
scaffold_5	64769374	64769594	MSTRG.17602.1	ZNF621
scaffold_5	64770014	64770297	MSTRG.17603.1	ZNF621
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scaffold_5	68114331	68127410	MSTRG.17629.1	ZNF660
scaffold_5	66667921	66675315	MSTRG.17615.1	ZNF662
scaffold_5	66668054	66676398	MSTRG.17615.2	ZNF662
scaffold_5	5398996	5402610	MSTRG.17152.1	ZNF677
scaffold_5	68051965	68066490	MSTRG.17625.1	ZNF852
scaffold_5	68052291	68066490	MSTRG.17625.2	ZNF852
scaffold_5	68052295	68066490	MSTRG.17625.3	ZNF852
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scaffold_5	2927941	2967230	ZXDC_g17775.t1	ZXDC
scaffold_6	1879416	1938753	2ABD_g18530.t1	PPP2R2D
scaffold_6	60076166	60096168	4EBP2_g18975.t1	EIF4EBP2
scaffold_6	38771839	38848216	5HT7R_g18858.t1	HTR7
scaffold_6	27713179	27789282	5NTC_g18711.t1	NT5C2
scaffold_6	69486199	69486813	MSTRG.18463.1	ABCB10
scaffold_6	69452593	69485880	ABCBA_g19053.t1	ABCB10
scaffold_6	69449614	69485880	ABCBA_g19053.t2	ABCB10
scaffold_6	17720750	17881147	MSTRG.17998.1	ABLIM1
scaffold_6	17720922	17889048	ABLM1_g18649.t1	ABLIM1
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scaffold_6	8343019	8364984	ABRX2_g18572.t1	ABRAXAS2
scaffold_6	9958200	10008036	MSTRG.17935.1	ACADSB
scaffold_6	19699608	19724885	ACSL5_g18666.t1	ACSL5
scaffold_6	19698601	19740408	MSTRG.18020.1	ACSL5
scaffold_6	40678900	40692315	ACTA_g18872.t1	ACTA1
scaffold_6	40674971	40692315	MSTRG.18225.1	ACTA2
scaffold_6	75711056	75776662	ACTN2_g19098.t1	ACTN2
scaffold_6	28337022	28353307	ACTZ_g18720.t1	ACTR1A
scaffold_6	19499497	19499708	MSTRG.18015.1	ACVR1
scaffold_6	6990055	7286556	ADA12_g18562.t1	ADAM12
scaffold_6	560053	568880	ADAM8_g18511.t1	ADAM8
scaffold_6	558917	567139	MSTRG.17879.3	ADAM8

scaffold_6	21742466	21877437	MSTRG.18035.1	ADD3
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scaffold_6	21744493	21772837	ADDG_g18680.t1	ADD3
scaffold_6	44840089	44840300	MSTRG.18246.1	ADGRE1
scaffold_6	63316458	63333588	MSTRG.18395.1	ADK
scaffold_6	63358689	63854773	MSTRG.18397.1	ADK
scaffold_6	53487663	53489150	MSTRG.18290.1	ADO
scaffold_6	53486528	53487340	AEDO_g18926.t1	ADO
scaffold_6	34026100	34026318	MSTRG.18163.1	AFF1
scaffold_6	59794868	59827845	MSTRG.18351.1	AIFM2
scaffold_6	59794868	59811291	MSTRG.18351.2	AIFM2
scaffold_6	59794873	59811163	MSTRG.18351.3	AIFM2
scaffold_6	59794873	59811291	MSTRG.18351.4	AIFM2
scaffold_6	59794874	59802664	MSTRG.18351.5	AIFM2
scaffold_6	59794874	59811291	MSTRG.18351.6	AIFM2
scaffold_6	59795711	59804345	MSTRG.18351.7	AIFM2
scaffold_6	59810061	59818813	MSTRG.18352.1	AIFM2
scaffold_6	27927264	27936749	MSTRG.18056.2	AKR1D1
scaffold_6	34252623	34294794	MSTRG.18178.1	ALDH18A1
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scaffold_6	61689116	61703719	MSTRG.18371.2	ANAPC16
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scaffold_6	51027626	51069797	ANK3_g18914.t1	ANK3
scaffold_6	51071537	51135843	ANK3_g18916.t1	ANK3
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scaffold_6	51027500	51054766	MSTRG.18270.2	ANK3
scaffold_6	51057344	51154609	MSTRG.18270.4	ANK3
scaffold_6	51158651	51286149	MSTRG.18270.7	ANK3
scaffold_6	51244270	51666530	MSTRG.18270.8	ANK3
scaffold_6	40796297	40813324	MSTRG.18226.1	ANKRD22
scaffold_6	40796500	40821713	ANR22_g18874.t1	ANKRD22
scaffold_6	68183813	68201596	ANX11_g19043.t1	ANXA11
scaffold_6	62741828	62764383	MSTRG.18383.3	ANXA7
scaffold_6	63295076	63305192	AP3M1_g19019.t1	AP3M1
scaffold_6	63292745	63316440	MSTRG.18393.1	AP3M1
scaffold_6	63291853	63292145	MSTRG.18396.1	AP3M1
scaffold_6	61693658	61703125	APC16_g18993.t1	ANAPC16
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scaffold_6	32773920	32774327	MSTRG.18146.1	ARHGAP19
scaffold_6	83514072	83529835	MSTRG.18576.2	ARHGAP22
scaffold_6	83528196	83533978	MSTRG.18577.1	ARHGAP22
scaffold_6	52468108	52585182	ARI5B_g18923.t1	ARID5B
scaffold_6	52719897	52895259	ARI5B_g18923.t2	ARID5B

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scaffold_6	74419877	74443173	MSTRG.18517.2	ARID4B
scaffold_6	52749845	52763182	MSTRG.18284.2	ARID5B
scaffold_6	52850117	52895259	MSTRG.18284.3	ARID5B
scaffold_6	52850150	52895259	MSTRG.18284.4	ARID5B
scaffold_6	28157436	28191915	ARL3_g18717.t1	ARL3
scaffold_6	28180592	28191915	MSTRG.18066.2	ARL3
scaffold_6	28895476	28898542	ARMD3_g18732.t2	FBLN5
scaffold_6	70561296	70579256	ARV1_g19063.t1	ARV1
scaffold_6	70561296	70584653	MSTRG.18475.1	ARV1
scaffold_6	27949011	27977238	AS3MT_g18713.t1	AS3MT
scaffold_6	42646182	42683472	ASAH2_g18887.t1	ASAH2
scaffold_6	7271006	7271210	MSTRG.17910.1	ASB9
scaffold_6	61669888	61687629	ASCC1_g18992.t2	ASCC1
scaffold_6	61586426	61607380	MSTRG.18367.3	ASCC1
scaffold_6	42005280	42063899	MSTRG.18233.1	ATAD1
scaffold_6	11344315	11363394	ATE1_g18605.t1	ATE1
scaffold_6	11340663	11532001	MSTRG.17951.1	ATE1
scaffold_6	11341269	11532001	MSTRG.17951.2	ATE1
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scaffold_6	11344315	11532001	MSTRG.17951.4	ATE1
scaffold_6	58176294	58176752	ATOH7_g18941.t1	ATOH7
scaffold_6	58177197	58230762	MSTRG.18315.1	ATOH7
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scaffold_6	16557184	16558234	MSTRG.17993.1	ATRNL1
scaffold_6	16558953	16559251	MSTRG.17994.1	ATRNL1
scaffold_6	60278766	60356751	ATS14_g18979.t1	ADAMTS14
scaffold_6	32415771	32417619	AVPI1_g18792.t1	AVPI1
scaffold_6	32409558	32417619	MSTRG.18132.1	AVPI1
scaffold_6	74655879	74705191	MSTRG.18522.1	B3GALNT2
scaffold_6	74655913	74705191	B3GL2_g19089.t1	B3GALNT2
scaffold_6	61785930	62042074	MSTRG.18374.1	B3GNT5
scaffold_6	13280331	13301827	BAG3_g18613.t1	BAG3
scaffold_6	13279858	13284637	MSTRG.17959.1	BAG3
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scaffold_6	7442408	7457241	BCCIP_g18565.t1	BCCIP
scaffold_6	59593895	59594113	MSTRG.18346.1	BDP1
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scaffold_6	33710094	33797043	BLNK_g18814.t1	BLNK
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scaffold_6	84963537	84999550	BMR1A_g19185.t1	BMPR1A
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scaffold_6	37791577	37884032	BTAF1_g18849.t1	BTAF1
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scaffold_6	29150594	29338770	MSTRG.18089.1	BTRC
scaffold_6	9857142	9867883	MSTRG.17934.2	BUB3
scaffold_6	9857142	9867883	MSTRG.17934.3	BUB3
scaffold_6	59370050	59373036	MSTRG.18344.1	FAM241B
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scaffold_6	572112	572333	MSTRG.17880.1	C11ORF65
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scaffold_6	30256754	30282506	C19L1_g18765.t1	CWF19L1
scaffold_6	28023746	28023977	MSTRG.18059.1	C1ORF43
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scaffold_6	33941066	34041541	C2D2B_g18818.t1	CC2D2B
scaffold_6	45621855	46461594	MSTRG.18252.6	C2ORF50
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scaffold_6	70771424	70786895	CA131_g19066.t1	C1ORF131
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scaffold_6	14032509	14109237	MSTRG.17969.1	CACUL1
scaffold_6	14093774	14097409	MSTRG.17969.3	CACUL1
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scaffold_6	18540980	18579423	MSTRG.18003.1	CASP7
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scaffold_6	33940852	33975455	MSTRG.18162.1	CC2D2B
scaffold_6	33958696	33993020	MSTRG.18162.3	CC2D2B
scaffold_6	39565846	39566067	MSTRG.18207.1	CC2D2B
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scaffold_6	18131966	18190822	MSTRG.17999.1	CCDC186
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scaffold_6	33911534	33927858	CCNJ_g18817.t1	CCNJ
scaffold_6	33908879	33928751	MSTRG.18156.1	CCNJ
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scaffold_6	69628914	69643204	MSTRG.18464.1	CCSAP
scaffold_6	87070683	87071406	CCSE2_g19193.t1	CCSER2
scaffold_6	87071407	87212756	CCSE2_g19193.t2	CCSER2

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scaffold_6	36595244	36599553	CEP55_g18839.t1	CEP55
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scaffold_6	933769	1063423	CFA46_g18519.t1	CFAP46
scaffold_6	62608722	62714564	CFA70_g19006.t1	CFAP70
scaffold_6	80751360	80778931	CGAT2_g19129.t1	CSGALNACT2
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scaffold_6	61506340	61506553	MSTRG.18364.1	CHST3
scaffold_6	9069048	9104801	CHSTF_g18580.t1	CHST15
scaffold_6	30285043	30319247	MSTRG.18106.1	CHUK
scaffold_6	49483493	49499513	CISD1_g18905.t1	CISD1
scaffold_6	3572415	3610903	CJ143_g18543.t1	C10ORF143
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scaffold_6	27801090	27936749	CNNM2_g18712.t1	CNNM2
scaffold_6	27931033	27936749	MSTRG.18056.4	CNNM2
scaffold_6	73703893	73712221	MSTRG.18512.1	COA6
scaffold_6	73704310	73742645	MSTRG.18512.2	COA6
scaffold_6	59524243	59681331	CODA1_g18968.t1	COL13A1
scaffold_6	68418250	68475705	COG2_g19047.t1	COG2
scaffold_6	68416986	68475705	MSTRG.18458.1	COG2
scaffold_6	68423372	68448982	MSTRG.18458.3	COG2
scaffold_6	68423372	68454387	MSTRG.18458.4	COG2
scaffold_6	26878453	26950941	COHA1_g18697.t1	COL17A1
scaffold_6	59614708	59625721	MSTRG.18345.2	COL13A1
scaffold_6	26948616	26950941	MSTRG.18047.2	COL17A1
scaffold_6	26951382	27009720	MSTRG.18048.1	COL17A1
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scaffold_6	64313352	64320223	MSTRG.18407.1	COMTD1
scaffold_6	64315722	64320223	MSTRG.18407.2	COMTD1
scaffold_6	30691389	30709039	COX15_g18773.t1	COX15
scaffold_6	28058492	28064178	CP17A_g18714.t2	CYP17A1
scaffold_6	36962848	36966198	CP26A_g18841.t1	CYP26A1
scaffold_6	37629608	37768339	CPEB3_g18848.t1	CPEB3
scaffold_6	37770241	37770466	MSTRG.18193.1	CPEB3
scaffold_6	37629290	37673285	MSTRG.18197.1	CPEB3
scaffold_6	30710815	30711042	MSTRG.18111.1	CPLX3

scaffold_6	33000009	33132169	MSTRG.18147.2	CPPED1
scaffold_6	3882203	3882451	MSTRG.17895.1	CREB5
scaffold_6	80749526	80791178	MSTRG.18559.1	CSGALNACT2
scaffold_6	80749526	80791178	MSTRG.18559.2	CSGALNACT2
scaffold_6	43710486	43712351	CSTFT_g18890.t1	CSTF2T
scaffold_6	8046582	8210738	MSTRG.17922.1	CTBP2
scaffold_6	8195417	8197939	MSTRG.17922.10	CTBP2
scaffold_6	8047057	8174648	MSTRG.17922.2	CTBP2
scaffold_6	8047057	8207763	MSTRG.17922.3	CTBP2
scaffold_6	8047057	8210738	MSTRG.17922.4	CTBP2
scaffold_6	8047148	8210738	MSTRG.17922.5	CTBP2
scaffold_6	8088512	8207763	MSTRG.17922.6	CTBP2
scaffold_6	8210207	8278467	MSTRG.17925.1	CTBP2
scaffold_6	42408851	42409063	MSTRG.18236.1	CTBP2
scaffold_6	56222569	56223027	CTNA3_g18932.t1	CTNNA3
scaffold_6	57409622	57777986	CTNA3_g18935.t1	CTNNA3
scaffold_6	56214716	56214928	MSTRG.18297.1	CTNNA3
scaffold_6	56221911	56222152	MSTRG.18298.1	CTNNA3
scaffold_6	57740735	57740983	MSTRG.18308.1	CTNNA3
scaffold_6	28390953	28392892	CUED2_g18722.t1	CUEDC2
scaffold_6	30663762	30691136	MSTRG.18112.1	CUTC
scaffold_6	10164573	10182414	CUZD1_g18594.t1	CUZD1
scaffold_6	30256754	30282506	MSTRG.18104.1	CWF19L1
scaffold_6	30256754	30262673	MSTRG.18104.2	CWF19L1
scaffold_6	36977486	37165929	MSTRG.18189.2	CYP26C1
scaffold_6	65176738	65176962	MSTRG.18428.1	DBR1
scaffold_6	18438936	18459698	MSTRG.18001.1	DCLRE1A
scaffold_6	18457937	18459108	MSTRG.18001.3	DCLRE1A
scaffold_6	18440313	18459698	DCR1A_g18657.t1	DCLRE1A
scaffold_6	61725735	61729538	DDIT4_g18994.t1	DDIT4
scaffold_6	61725357	61729538	MSTRG.18372.1	DDIT4
scaffold_6	58782332	58805253	DDX21_g18952.t1	DDX21
scaffold_6	58737452	58775691	DDX50_g18951.t1	DDX50
scaffold_6	58737377	58775691	MSTRG.18330.1	DDX50
scaffold_6	58737432	58775691	MSTRG.18330.2	DDX50
scaffold_6	58737432	58775691	MSTRG.18330.3	DDX50
scaffold_6	13750740	13769634	DEN10_g18619.t1	DENND10
scaffold_6	79032962	79033552	DEPP_g19113.t1	DEPP1
scaffold_6	84852463	84892095	DHE3_g19180.t1	GLUD1
scaffold_6	7401555	7442396	DHX32_g18564.t1	DHX32
scaffold_6	7401609	7425969	MSTRG.17913.3	DHX32
scaffold_6	15015654	15015941	DHX34_g18629.t1	DHX34
scaffold_6	71133619	71466813	DISC1_g19072.t1	DISC1
scaffold_6	71476973	71477589	MSTRG.18488.1	DISC1
scaffold_6	71478263	71478498	MSTRG.18492.1	DISC1

scaffold_6	61767969	61784885	DJB12_g18995.t1	DNAJB12
scaffold_6	66577223	66702389	DLG5_g19036.t1	DLG5
scaffold_6	10187146	10266523	DMBT1_g18596.t1	DMBT1
scaffold_6	10431492	10438393	MSTRG.17941.1	DMBT1
scaffold_6	58317992	58368339	MSTRG.18320.1	DNA2
scaffold_6	58319510	58363130	MSTRG.18320.3	DNA2
scaffold_6	61765365	61784885	MSTRG.18373.1	DNAJB12
scaffold_6	61765479	61784885	MSTRG.18373.2	DNAJB12
scaffold_6	57796983	57832854	MSTRG.18305.1	DNAJC12
scaffold_6	19679361	19681056	DNAS1_g18664.t1	DNASE1
scaffold_6	62597844	62604995	DNJC9_g19004.t1	DNAJC9
scaffold_6	30501532	30567024	DNMBP_g18769.t1	DNMBP
scaffold_6	30468190	30567024	MSTRG.18108.1	DNMBP
scaffold_6	6283418	6523331	DOCK1_g18560.t1	DOCK1
scaffold_6	6019089	6523331	MSTRG.17911.1	DOCK1
scaffold_6	29102281	29121558	DPCD_g18739.t1	DPCD
scaffold_6	29122545	29132963	DPOLL_g18740.t1	POLL
scaffold_6	64191127	64204587	DS13B_g19024.t1	DUSP13B
scaffold_6	64140893	64173541	DUS29_g19023.t1	DUSP29
scaffold_6	21418952	21430769	DUS5_g18677.t1	DUSP5
scaffold_6	21417425	21430769	MSTRG.18030.1	DUSP5
scaffold_6	62495504	62518262	ECD_g19002.t1	ECD
scaffold_6	62494886	62519752	MSTRG.18379.1	ECD
scaffold_6	62495290	62497892	MSTRG.18379.2	ECD
scaffold_6	62495504	62519752	MSTRG.18379.3	ECD
scaffold_6	413330	421228	ECHM_g18503.t1	ECHS1
scaffold_6	7546110	7567684	EDRF1_g18568.t1	EDRF1
scaffold_6	7524777	7540851	MSTRG.17917.1	EDRF1
scaffold_6	7541089	7544961	MSTRG.17918.1	EDRF1
scaffold_6	7545945	7567902	MSTRG.17919.1	EDRF1
scaffold_6	70866241	70919963	EGLN1_g19070.t1	EGLN1
scaffold_6	70865959	70866198	MSTRG.18482.1	EGLN1
scaffold_6	70866241	70919963	MSTRG.18483.1	EGLN1
scaffold_6	53494408	53499763	EGR2_g18927.t1	EGR2
scaffold_6	13788509	13823532	EIF3A_g18620.t1	EIF3A
scaffold_6	28561102	28563779	ELOV3_g18728.t1	ELOVL3
scaffold_6	15136414	15140553	EMX2_g18630.t1	EMX2
scaffold_6	15140751	15141020	EMX2_g18631.t1	EMX2
scaffold_6	15708092	15733803	ENO4_g18639.t1	ENO4
scaffold_6	34089683	34177361	ENTP1_g18819.t1	ENTPD1
scaffold_6	30715032	30749193	ENTP7_g18774.t1	ENTPD7
scaffold_6	34077520	34177361	MSTRG.18173.1	ENTPD1
scaffold_6	30711577	30749713	MSTRG.18115.2	ENTPD7
scaffold_6	30717745	30748048	MSTRG.18115.4	ENTPD7
scaffold_6	30711577	30749713	MSTRG.18115.1	ENTPD7

scaffold_6	82484256	82561607	ERCC6_g19150.t1	ERCC6
scaffold_6	82484175	82561607	ERCC6_g19150.t2	ERCC6
scaffold_6	82484256	82562418	MSTRG.18574.4	ERCC6
scaffold_6	82513264	82562418	MSTRG.18574.6	ERCC6
scaffold_6	82479276	82561607	MSTRG.18574.1	ERCC6
scaffold_6	82479292	82562418	MSTRG.18574.2	ERCC6
scaffold_6	30321491	30357049	MSTRG.18107.2	ERLIN1
scaffold_6	30321964	30357049	MSTRG.18107.3	ERLIN1
scaffold_6	30322490	30357049	MSTRG.18107.4	ERLIN1
scaffold_6	30321491	30357049	MSTRG.18107.1	ERLIN1
scaffold_6	30322490	30352951	ERLN1_g18767.t1	ERLIN1
scaffold_6	64290168	64293990	MSTRG.18400.1	EXO5
scaffold_6	64291110	64293805	MSTRG.18401.1	EXO5
scaffold_6	36970982	36981279	EXOC6_g18842.t1	EXOC6
scaffold_6	36981767	37134585	EXOC6_g18842.t2	EXOC6
scaffold_6	37006380	37165929	MSTRG.18189.6	EXOC6
scaffold_6	70842026	70844203	EXOC8_g19068.t1	EXOC8
scaffold_6	32601960	32608042	EXOS1_g18801.t1	EXOSC1
scaffold_6	32608668	32608948	MSTRG.18133.1	EXOSC1
scaffold_6	62519962	62596655	F149B_g19003.t1	F149B
scaffold_6	59371439	59373036	F241B_g18965.t1	FAM241B
scaffold_6	50373336	50509635	FA13C_g18911.t1	FA13C
scaffold_6	50372733	50411401	MSTRG.18261.1	FAM13C
scaffold_6	62519867	62596655	MSTRG.18380.2	FAM149B1
scaffold_6	62519820	62596655	MSTRG.18380.1	FAM149B1
scaffold_6	62596681	62606461	MSTRG.18381.1	FAM149B1
scaffold_6	17518822	17522940	MSTRG.17997.3	FHIP2A
scaffold_6	17507608	17542717	MSTRG.17997.1	FAM160B1
scaffold_6	14404598	14443509	MSTRG.17973.1	FAM204A
scaffold_6	14404598	14438293	MSTRG.17973.2	FAM204A
scaffold_6	90549377	90570452	MSTRG.18596.2	PRXL2A
scaffold_6	90549383	90570842	MSTRG.18596.3	PRXL2A
scaffold_6	90549315	90570842	MSTRG.18596.1	FAM213A
scaffold_6	428605	428897	MSTRG.17874.1	FAM221B
scaffold_6	10105287	10132459	MSTRG.17943.1	FAM24A
scaffold_6	84749662	84852114	MSTRG.18578.2	SHLD2
scaffold_6	84749649	84852114	MSTRG.18578.1	FAM35A
scaffold_6	13749327	13769634	MSTRG.17966.1	DENND10
scaffold_6	13749400	13769634	MSTRG.17966.2	FAM45A
scaffold_6	8411360	8531053	MSTRG.17927.4	FAM53B
scaffold_6	47830029	47830262	FAN1_g18900.t1	FAN1
scaffold_6	7288356	7326282	FANK1_g18563.t1	FANK1
scaffold_6	7386603	7442396	MSTRG.17913.1	FANK1
scaffold_6	29021425	29101355	FBXW4_g18738.t1	FBXW4
scaffold_6	29020852	29101355	FBXW4_g18738.t2	FBXW4

scaffold_6	29021435	29101355	MSTRG.18086.3	FBXW4
scaffold_6	36553618	36574602	FFAR4_g18838.t1	FFAR4
scaffold_6	28960947	28966541	FGF8_g18737.t1	FGF8
scaffold_6	11647831	11747836	FGFR2_g18606.t1	FGFR2
scaffold_6	11748129	11748408	MSTRG.17952.1	FGFR2
scaffold_6	11744258	11747836	MSTRG.17953.2	FGFR2
scaffold_6	51883522	51908946	FIBA_g18921.t1	FIBA
scaffold_6	64456457	64477905	MSTRG.18405.1	FLVCR2
scaffold_6	40012781	40013558	MSTRG.18214.1	FMO
scaffold_6	36448756	36478601	MSTRG.18183.1	FRA10AC1
scaffold_6	32687723	32688427	FRAT2_g18804.t1	FRAT2
scaffold_6	32688642	32688858	MSTRG.18141.1	FRAT2
scaffold_6	83676737	83804151	FRPD2_g19162.t1	FRMPD2
scaffold_6	423639	427801	FUCM_g18504.t1	FUCM
scaffold_6	423632	427801	MSTRG.17875.1	FUOM
scaffold_6	423643	427801	MSTRG.17875.3	FUOM
scaffold_6	423643	427801	MSTRG.17875.4	FUOM
scaffold_6	54495177	54495405	MSTRG.18296.1	FUT10
scaffold_6	28393169	28395041	FXL15_g18723.t1	FBXL15
scaffold_6	80521488	80550212	FXYD4_g19127.t1	FXYD4
scaffold_6	75249823	75304669	G137B_g19093.t1	GPR137B
scaffold_6	37936491	37936721	MSTRG.18200.1	GABRA2
scaffold_6	68773866	68974133	MSTRG.18459.1	GALNT2
scaffold_6	15487529	15491833	GALT3_g18636.t2	GALT3
scaffold_6	28427294	28547696	GBF1_g18726.t1	GBF1
scaffold_6	28426753	28545471	MSTRG.18075.2	GBF1
scaffold_6	28426753	28545471	MSTRG.18075.1	GBF1
scaffold_6	90879745	90879961	MSTRG.18595.1	GCNT7
scaffold_6	535912	558556	GCP2_g18510.t1	GCP2
scaffold_6	58380866	58418424	GDC_g18947.t1	SLC25A16
scaffold_6	84234082	84237999	GDF2_g19164.t1	GDF2
scaffold_6	74548655	74555558	GGPPS_g19088.t1	GGPPS
scaffold_6	74544704	74655306	MSTRG.18521.1	GGPS1
scaffold_6	87390904	87405473	GHITM_g19198.t1	GHITM
scaffold_6	87387931	87406929	MSTRG.18593.1	GHITM
scaffold_6	87389554	87406716	MSTRG.18593.2	GHITM
scaffold_6	3522280	3554345	GLRX3_g18542.t1	GLRX3
scaffold_6	70787153	70817624	GNPAT_g19067.t1	GNPAT
scaffold_6	70786975	70817624	MSTRG.18479.1	GNPAT
scaffold_6	70787021	70817624	MSTRG.18479.2	GNPAT
scaffold_6	70787021	70825662	MSTRG.18479.3	GNPAT
scaffold_6	30958257	30958578	MSTRG.18117.1	GOT1
scaffold_6	19866333	19904699	MSTRG.18021.2	GPAM
scaffold_6	19865222	19901231	MSTRG.18021.1	GPAM
scaffold_6	19866333	19904699	MSTRG.18021.3	GPAM

scaffold_6	19893191	19904699	MSTRG.18021.4	GPAM
scaffold_6	19893199	19925616	MSTRG.18021.5	GPAM
scaffold_6	75249862	75304669	MSTRG.18530.2	GPR137B
scaffold_6	75300337	75362340	MSTRG.18531.1	GPR137B
scaffold_6	43923939	43924286	GPS2_g18891.t1	GPS2
scaffold_6	85479465	86078530	GRID1_g19189.t1	GRID1
scaffold_6	84696708	84698081	GRIN2_g19176.t1	GRIN2
scaffold_6	13473542	13693034	GRK5_g18616.t1	GRK5
scaffold_6	26729474	26740915	GSTO1_g18694.t1	GSTO1
scaffold_6	26729420	26740915	MSTRG.18043.1	GSTO1
scaffold_6	27792166	27792385	MSTRG.18054.1	HCFC2
scaffold_6	75593267	75642091	HEAT1_g19097.t1	HEATR1
scaffold_6	75591824	75642486	MSTRG.18534.1	HEATR1
scaffold_6	75591826	75642486	MSTRG.18534.2	HEATR1
scaffold_6	75594357	75642486	MSTRG.18534.4	HEATR1
scaffold_6	75613196	75642486	MSTRG.18534.5	HEATR1
scaffold_6	38218318	38294352	HECD2_g18854.t1	HECTD2
scaffold_6	38223351	38224890	MSTRG.18203.2	HECTD2
scaffold_6	38225886	38294352	MSTRG.18203.3	HECTD2
scaffold_6	35664277	35703605	HELLS_g18829.t1	HELLS
scaffold_6	57906331	57961393	MSTRG.18311.2	HERC4
scaffold_6	57906933	58058135	MSTRG.18311.3	HERC4
scaffold_6	57963630	58058135	MSTRG.18311.5	HERC4
scaffold_6	57905218	57961393	MSTRG.18311.1	HERC4
scaffold_6	58028555	58058135	MSTRG.18311.6	HERC4
scaffold_6	37292938	37297880	HHEX_g18843.t1	HHEX
scaffold_6	30018347	30026842	HIF1N_g18757.t1	HIF1N
scaffold_6	59107026	59177511	MSTRG.18340.1	HK1
scaffold_6	59016172	59062109	HKDC1_g18960.t1	HKDC1
scaffold_6	58262249	58268360	HNRH3_g18943.t1	HNRNPH3
scaffold_6	80489318	80510987	MSTRG.18555.3	HNRNPF
scaffold_6	80489359	80510987	MSTRG.18555.4	HNRNPF
scaffold_6	80489318	80510987	MSTRG.18555.2	HNRNPF
scaffold_6	80490132	80510987	MSTRG.18555.5	HNRNPF
scaffold_6	80499337	80510987	MSTRG.18555.6	HNRNPF
scaffold_6	80508471	80510987	HNRPF_g19126.t1	HNRNPF
scaffold_6	80508474	80510987	HNRPF_g19126.t2	HNRNPF
scaffold_6	32466869	32494123	HOGA1_g18795.t1	HOGA1
scaffold_6	31761861	31785965	HPS1_g18781.t1	HPS1
scaffold_6	31758267	31812079	MSTRG.18125.1	HPS1
scaffold_6	31758291	31785965	MSTRG.18125.2	HPS1
scaffold_6	31758291	31785965	MSTRG.18125.3	HPS1
scaffold_6	31766556	31785965	MSTRG.18125.5	HPS1
scaffold_6	31771163	31785965	MSTRG.18125.6	HPS1
scaffold_6	28703015	28705411	HPS6_g18731.t1	HPS6

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scaffold_6	15824628	15892709	HS12A_g18640.t1	HSPA12A
scaffold_6	41005470	41007083	HTF4_g18877.t1	TCF12
scaffold_6	38849417	38849692	MSTRG.18209.1	HTR7
scaffold_6	10888274	10914649	HTRA1_g18599.t1	HTRA1
scaffold_6	10364285	10591272	MSTRG.17940.1	HTRA1
scaffold_6	10575760	10591272	MSTRG.17940.2	HTRA1
scaffold_6	10592813	10596718	MSTRG.17942.1	HTRA1
scaffold_6	59107263	59177511	HXK1_g18961.t1	HXK1
scaffold_6	73912018	73914527	I2BP2_g19084.t1	IRF2BP2
scaffold_6	37377597	37486568	MSTRG.18191.1	IDE
scaffold_6	37377655	37486568	MSTRG.18191.2	IDE
scaffold_6	72355773	72390357	IF4E3_g19077.t1	IF4E3
scaffold_6	39960458	39960823	IFIT1_g18865.t1	IFIT1
scaffold_6	39960968	39972668	IFIT1_g18866.t1	IFIT1
scaffold_6	40327182	40332307	IFIT2_g18868.t1	IFIT2
scaffold_6	39937407	39938226	MSTRG.18215.1	IFIT5
scaffold_6	22668234	22671539	IFT88_g18683.t1	IFT88
scaffold_6	28880366	28880665	IGBP1_g18733.t1	IGBP1
scaffold_6	434809	435025	MSTRG.17877.1	IGFALS
scaffold_6	30285043	30319247	IKKA_g18766.t1	CHUK
scaffold_6	10016841	10022690	IKZF5_g18589.t1	IKZF5
scaffold_6	10008319	10024683	MSTRG.17936.2	IKZF5
scaffold_6	8961647	8975710	IL4_g18579.t1	IL4
scaffold_6	1086446	1326268	MSTRG.17885.1	INPP5A
scaffold_6	1087665	1105762	MSTRG.17885.3	INPP5A
scaffold_6	49440011	49482048	IPMK_g18904.t1	IPMK
scaffold_6	3415542	3415783	MSTRG.17890.1	IPO9
scaffold_6	26689565	26692090	IPRI_g18692.t1	IPRI
scaffold_6	26689445	26692090	IPRI_g18692.t2	IPRI
scaffold_6	59832685	59840483	IPYR_g18972.t1	PPA1
scaffold_6	59880940	59909751	IPYR_g18972.t2	PPA1
scaffold_6	73909143	73914564	MSTRG.18510.2	IRF2BP2
scaffold_6	73908427	73914564	MSTRG.18510.1	IRF2BP2
scaffold_6	65404927	65405294	MSTRG.18437.1	IRX3
scaffold_6	26668354	26693244	MSTRG.18040.1	ITPRIP
scaffold_6	10008214	10024683	MSTRG.17936.1	IZKF5
scaffold_6	54076955	54081512	JHD2C_g18930.t1	JMJD1C
scaffold_6	53797923	53880410	MSTRG.18301.1	JMJD1C
scaffold_6	53797927	54140360	MSTRG.18301.2	JMJD1C
scaffold_6	53797927	53880410	MSTRG.18301.3	JMJD1C
scaffold_6	53797927	54081512	MSTRG.18301.4	JMJD1C
scaffold_6	63963334	64134093	KAT6B_g19022.t1	KAT6B
scaffold_6	63950429	64134997	MSTRG.18402.1	KAT6B
scaffold_6	63950609	64125631	MSTRG.18402.2	KAT6B

scaffold_6	14461097	14461301	MSTRG.17971.1	KATNAL1
scaffold_6	29569316	29572922	MSTRG.18090.1	KAZALD1
scaffold_6	58813764	58849669	KBP_g18956.t1	KIFBP
scaffold_6	28904415	28918748	KCIP2_g18734.t1	KCIP2
scaffold_6	28919257	28919470	MSTRG.18080.1	KCNIP2
scaffold_6	72999871	73044881	KCNK1_g19080.t1	KCNK1
scaffold_6	74352395	74352597	MSTRG.18511.1	KCNK6
scaffold_6	44208875	44257155	KGP1_g18892.t1	KGP1
scaffold_6	39616136	39690936	KI20B_g18860.t1	KI20B
scaffold_6	5441756	5468174	KI67_g18552.t1	KI67
scaffold_6	37319966	37362236	KIF11_g18844.t1	KIF11
scaffold_6	37322812	37341630	MSTRG.18194.2	KIF11
scaffold_6	39615982	39693654	MSTRG.18213.1	KIF20B
scaffold_6	39615982	39691368	MSTRG.18213.2	KIF20B
scaffold_6	618139	684458	KNDC1_g18514.t1	KNDC1
scaffold_6	58392072	58418424	MSTRG.18319.3	LAMP2
scaffold_6	29438916	29440442	LBX1_g18742.t1	LBX1
scaffold_6	33036999	33157449	LCOR_g18808.t1	LCOR
scaffold_6	32997083	33132677	MSTRG.18147.1	LCOR
scaffold_6	33028510	33132677	MSTRG.18147.3	LCOR
scaffold_6	28660841	28674029	MSTRG.18078.1	LDB1
scaffold_6	28666303	28674448	MSTRG.18078.5	LDB1
scaffold_6	28661038	28674448	MSTRG.18078.2	LDB1
scaffold_6	28666075	28674448	MSTRG.18078.4	LDB1
scaffold_6	28666303	28674448	MSTRG.18078.6	LDB1
scaffold_6	30005975	30026842	MSTRG.18098.1	LDHA
scaffold_6	15123703	15129393	MSTRG.17983.1	LGALS12
scaffold_6	75569448	75593240	MSTRG.18533.1	LGALS8
scaffold_6	75569516	75593240	MSTRG.18533.2	LGALS8
scaffold_6	36373262	36410423	LGI1_g18834.t2	LGI1
scaffold_6	40394959	40433216	LICH_g18869.t1	LICH
scaffold_6	41243950	41262435	LIPG_g18880.t1	LIPG
scaffold_6	41284388	41318041	LIPJ_g18881.t1	LIPJ
scaffold_6	40983586	40995305	LIPK_g18876.t2	LIPK
scaffold_6	19031520	19042007	MSTRG.18008.8	LIPM
scaffold_6	15925526	15934032	LIPR2_g18641.t1	LIPR2
scaffold_6	467193	468446	TLR2_g18507.t1	LOC106782066
scaffold_6	79014704	79014927	MSTRG.18541.1	LOC111775421
scaffold_6	31917942	31939477	MSTRG.18122.1	LOXL4
scaffold_6	83078682	83082809	LRC18_g19158.t1	LRC18
scaffold_6	1469252	1516943	LRC27_g18525.t1	LRRC27
scaffold_6	15050851	15051270	MSTRG.17981.1	LRFN5
scaffold_6	87318092	87328088	LRIT1_g19195.t2	LRIT1
scaffold_6	4667990	4700831	LRP6_g18550.t1	LRP6
scaffold_6	59965643	60001633	MSTRG.18354.1	LRRC20

scaffold_6	1490611	1516943	MSTRG.17881.2	LRRC27
scaffold_6	1518055	1519709	MSTRG.17884.1	LRRC27
scaffold_6	33107106	33124675	MSTRG.18148.1	LY49E
scaffold_6	86470249	86477717	LY75_g19192.t1	LY75
scaffold_6	74413300	74414784	MSTRG.18518.1	LY75
scaffold_6	74817534	74817758	MSTRG.18519.1	LYST
scaffold_6	74818275	74818497	MSTRG.18520.1	LYST
scaffold_6	74819484	74833152	MSTRG.18523.1	LYST
scaffold_6	29619207	29626537	MSTRG.18091.4	LZTS2
scaffold_6	29627886	29638182	MSTRG.18092.1	LZTS2
scaffold_6	72730810	72780758	M3K21_g19079.t1	MAP3K21
scaffold_6	32394719	32395385	MALD1_g18791.t1	MARVELD1
scaffold_6	72176204	72178978	MAP10_g19075.t1	MAP10
scaffold_6	72781297	72781847	MSTRG.18503.1	MAP3K21
scaffold_6	83539550	83647541	MSTRG.18575.1	MAPK8
scaffold_6	83544998	83647541	MSTRG.18575.2	MAPK8
scaffold_6	83544998	83560727	MSTRG.18575.3	MAPK8
scaffold_6	83544998	83646110	MSTRG.18575.4	MAPK8
scaffold_6	37540344	37540744	MSTRG.18190.1	MARCH5
scaffold_6	81622988	81726268	MSTRG.18568.1	MARCH8
scaffold_6	37542746	37594739	MARH5_g18847.t1	MARCHF5
scaffold_6	32391469	32395385	MSTRG.18126.2	MARVELD1
scaffold_6	32391347	32395385	MSTRG.18126.1	MARVELD1
scaffold_6	32391574	32395385	MSTRG.18126.3	MARVELD1
scaffold_6	13105016	13149727	MCMBP_g18611.t1	MCMBP
scaffold_6	13104739	13149727	MSTRG.17956.1	MCMBP
scaffold_6	62097174	62275704	MCU_g18997.t1	MCU
scaffold_6	90681647	90696895	METK1_g19208.t1	METK1
scaffold_6	8371560	8531053	MSTRG.17927.1	METTL10
scaffold_6	8371600	8397193	MSTRG.17927.2	METTL10
scaffold_6	28356084	28361192	MF13A_g18721.t1	MFSD13A
scaffold_6	30770029	30780200	MFRN2_g18775.t1	MFRN2
scaffold_6	28354928	28375151	MSTRG.18070.1	MFSD13A
scaffold_6	28356063	28360496	MSTRG.18070.2	MFSD13A
scaffold_6	25222636	25222869	MGAP_g18687.t1	MGAP
scaffold_6	28924641	28952001	MSTRG.18084.2	MGEA5
scaffold_6	3883410	4189981	MGMT_g18548.t1	MGMT
scaffold_6	3883311	4189981	MSTRG.17900.1	MGMT
scaffold_6	61795218	61983579	MICU1_g18996.t1	MICU1
scaffold_6	42244715	42308817	MINP1_g18886.t1	MINPP1
scaffold_6	83544998	83583190	MK08_g19161.t1	MAPK8
scaffold_6	5440997	5469497	MSTRG.17901.3	MKI67
scaffold_6	5440993	5469497	MSTRG.17901.1	MKI67
scaffold_6	5440993	5469497	MSTRG.17901.2	MKI67
scaffold_6	5440997	5469497	MSTRG.17901.4	MKI67

scaffold_6	5441117	5461889	MSTRG.17901.5	MKI67
scaffold_6	84936148	84951631	MMRN2_g19184.t1	MMRN2
scaffold_6	32558885	32592161	MMS19_g18799.t1	MMS19
scaffold_6	32574428	32584142	MSTRG.18137.2	MMS19
scaffold_6	32582262	32586129	MSTRG.18137.3	MMS19
scaffold_6	32581840	32601722	MSTRG.18138.1	MMS19
scaffold_6	32460483	32464638	MORN4_g18794.t1	MORN4
scaffold_6	32453188	32464638	MSTRG.18131.1	MORN4
scaffold_6	32461601	32464638	MSTRG.18131.3	MORN4
scaffold_6	50726203	50757392	MOT9_g18912.t1	SLC16A9
scaffold_6	16059	16424	MOXD2_g18489.t1	MOXD2
scaffold_6	30576303	30653301	MRP2_g18770.t1	MRP2
scaffold_6	29636976	29638182	MSTRG.18092.2	MRPL43
scaffold_6	62604996	62606461	MSTRG.18381.3	MRPS16
scaffold_6	62774991	62826181	MSTRG.18382.2	MSS51
scaffold_6	62774991	62826181	MSTRG.18382.1	MSS51
scaffold_6	378984	393797	MSTRG.17871.1	MTG1
scaffold_6	378992	393797	MSTRG.17871.2	MTG1
scaffold_6	75802008	75856199	MSTRG.18535.1	MTR
scaffold_6	14856865	14857239	MUC16_g18626.t1	MUC16
scaffold_6	21605277	21606833	MSTRG.18031.1	MXI1
scaffold_6	21607153	21607398	MSTRG.18032.1	MXI1
scaffold_6	21607916	21681628	MXI1_g18679.t1	MXI1
scaffold_6	58811354	58811713	MY18A_g18954.t1	MY18A
scaffold_6	36632555	36743557	MYOF_g18840.t1	MYOF
scaffold_6	36759958	36766297	MSTRG.18186.1	MYOF
scaffold_6	62951188	62968931	MSTRG.18385.1	MYOZ1
scaffold_6	62955029	62968931	SYP2L_g19010.t1	MYOZ1
scaffold_6	62951339	62955028	MYOZ1_g19009.t1	MYOZ1
scaffold_6	58058536	58063465	MYPN_g18940.t1	MYPN
scaffold_6	58094746	58164107	MYPN_g18940.t2	MYPN
scaffold_6	13828145	13829029	NANO1_g18621.t1	NANO1
scaffold_6	82049070	82056066	NCOA4_g19142.t1	NCOA4
scaffold_6	63023430	63032319	MSTRG.18390.1	NDST2
scaffold_6	63023615	63032319	MSTRG.18390.2	NDST2
scaffold_6	63023959	63032319	MSTRG.18390.4	NDST2
scaffold_6	63023953	63029585	NDST2_g19015.t1	NDST2
scaffold_6	30031631	30036115	NDUB8_g18758.t1	NDUFB8
scaffold_6	27371550	27403462	NEUL1_g18701.t1	NEUL1
scaffold_6	28411946	28420536	MSTRG.18074.1	NFKB2
scaffold_6	28411946	28420536	MSTRG.18074.2	NFKB2
scaffold_6	28412648	28420536	MSTRG.18074.3	NFKB2
scaffold_6	28412648	28420338	MSTRG.18074.4	NFKB2
scaffold_6	28412756	28419020	NFKB2_g18725.t1	NFKB2
scaffold_6	18384681	18438610	NHLC2_g18656.t1	NHLRC2

scaffold_6	18416371	18420348	MSTRG.18000.2	NHLRC2
scaffold_6	75094512	75176382	NID1_g19092.t1	NID1
scaffold_6	75092146	75176860	MSTRG.18526.1	NID1
scaffold_6	59179533	59193043	NK2R_g18962.t3	NK2R
scaffold_6	8694624	8694824	MSTRG.17930.1	NKX1-2
scaffold_6	8691846	8694410	NKX12_g18575.t1	NKX1-2
scaffold_6	8693646	8694410	NKX12_g18576.t1	NKX1-2
scaffold_6	30843940	30844145	MSTRG.18116.1	NKX2-3
scaffold_6	1083611	1084762	NKX62_g18520.t1	NKX62
scaffold_6	35834167	35880896	MSTRG.18179.1	NOC3L
scaffold_6	35839790	35852898	MSTRG.18179.3	NOC3L
scaffold_6	35834266	35880896	NOC3L_g18831.t1	NOC3L
scaffold_6	60106072	60112765	NODAL_g18976.t1	NODAL
scaffold_6	60106072	60112897	NODAL_g18976.t2	NODAL
scaffold_6	8709339	8728429	MSTRG.17933.2	NOL10
scaffold_6	28622719	28649415	MSTRG.18077.2	NOLC1
scaffold_6	28624311	28634548	PPRC1_g18729.t1	NOLC1
scaffold_6	28622417	28649415	MSTRG.18077.1	NOLC1
scaffold_6	28626738	28634548	MSTRG.18077.4	NOLC1
scaffold_6	51147762	51285823	ANK3_g18917.t1	ANK3_g18917.t1
scaffold_6	45563346	45563897	ASH1L_g18896.t1	ASH1L_g18896.t1
scaffold_6	22235987	22236648	CP2DS_g18682.t1	CP2DS_g18682.t1
scaffold_6	64694829	64695718	ETF2_g19029.t1	ETF2_g19029.t1
scaffold_6	5064004	5064210	MSTRG.17899.1	MSTRG.17899.1
scaffold_6	7050428	7050646	MSTRG.17909.1	MSTRG.17909.1
scaffold_6	8513076	8683157	MSTRG.17928.1	MSTRG.17928.1
scaffold_6	9163167	9163370	MSTRG.17932.1	MSTRG.17932.1
scaffold_6	13104947	13149727	MSTRG.17956.2	MSTRG.17956.2
scaffold_6	15161322	15175976	MSTRG.17987.3	MSTRG.17987.3
scaffold_6	15764697	15764912	MSTRG.17991.1	MSTRG.17991.1
scaffold_6	16522327	16522546	MSTRG.17992.1	MSTRG.17992.1
scaffold_6	19657007	19657239	MSTRG.18018.1	MSTRG.18018.1
scaffold_6	22868128	22920153	MSTRG.18037.2	MSTRG.18037.2
scaffold_6	27694849	27742926	MSTRG.18055.3	MSTRG.18055.3
scaffold_6	28385476	28392892	MSTRG.18071.2	MSTRG.18071.2
scaffold_6	30497489	30497755	MSTRG.18109.1	MSTRG.18109.1
scaffold_6	30508898	30509122	MSTRG.18110.1	MSTRG.18110.1
scaffold_6	33746649	33746871	MSTRG.18153.1	MSTRG.18153.1
scaffold_6	34061939	34062167	MSTRG.18159.1	MSTRG.18159.1
scaffold_6	34075296	34075496	MSTRG.18166.1	MSTRG.18166.1
scaffold_6	34360507	34548887	MSTRG.18178.7	MSTRG.18178.7
scaffold_6	35731399	35742631	MSTRG.18180.2	MSTRG.18180.2
scaffold_6	37607905	37608115	MSTRG.18196.1	MSTRG.18196.1
scaffold_6	38292209	38292436	MSTRG.18204.1	MSTRG.18204.1
scaffold_6	40395019	40433216	MSTRG.18219.2	MSTRG.18219.2

scaffold_6	42512970	42563568	MSTRG.18240.1	MSTRG.18240.1
scaffold_6	48580433	48580646	MSTRG.18247.1	MSTRG.18247.1
scaffold_6	45559612	46757052	MSTRG.18252.1	MSTRG.18252.1
scaffold_6	45559612	47198094	MSTRG.18252.2	MSTRG.18252.2
scaffold_6	50829503	50829723	MSTRG.18263.1	MSTRG.18263.1
scaffold_6	51704362	51722871	MSTRG.18269.2	MSTRG.18269.2
scaffold_6	51991742	51991966	MSTRG.18279.1	MSTRG.18279.1
scaffold_6	52074677	52074877	MSTRG.18281.1	MSTRG.18281.1
scaffold_6	52467049	52467280	MSTRG.18282.1	MSTRG.18282.1
scaffold_6	53503804	53504010	MSTRG.18291.1	MSTRG.18291.1
scaffold_6	58170684	58170884	MSTRG.18314.1	MSTRG.18314.1
scaffold_6	58649095	58649303	MSTRG.18322.1	MSTRG.18322.1
scaffold_6	58719048	58719269	MSTRG.18329.1	MSTRG.18329.1
scaffold_6	61669888	61691554	MSTRG.18370.1	MSTRG.18370.1
scaffold_6	61791487	62042074	MSTRG.18374.3	MSTRG.18374.3
scaffold_6	62111662	62275704	MSTRG.18375.2	MSTRG.18375.2
scaffold_6	62155516	62275704	MSTRG.18375.3	MSTRG.18375.3
scaffold_6	65247034	65247239	MSTRG.18430.1	MSTRG.18430.1
scaffold_6	65318200	65318466	MSTRG.18432.1	MSTRG.18432.1
scaffold_6	65352945	65353146	MSTRG.18436.1	MSTRG.18436.1
scaffold_6	67071071	67071299	MSTRG.18445.1	MSTRG.18445.1
scaffold_6	70254850	70255078	MSTRG.18467.1	MSTRG.18467.1
scaffold_6	70445563	70445777	MSTRG.18473.1	MSTRG.18473.1
scaffold_6	71868161	71868370	MSTRG.18495.1	MSTRG.18495.1
scaffold_6	72549995	72550222	MSTRG.18500.1	MSTRG.18500.1
scaffold_6	73340340	73340545	MSTRG.18505.1	MSTRG.18505.1
scaffold_6	74570959	74655306	MSTRG.18521.3	MSTRG.18521.3
scaffold_6	75485449	75485786	MSTRG.18529.1	MSTRG.18529.1
scaffold_6	75935507	75935721	MSTRG.18532.1	MSTRG.18532.1
scaffold_6	76724738	76725014	MSTRG.18536.1	MSTRG.18536.1
scaffold_6	79475162	79475370	MSTRG.18543.1	MSTRG.18543.1
scaffold_6	85010203	85112674	MSTRG.18581.1	MSTRG.18581.1
scaffold_6	85729503	85729703	MSTRG.18586.1	MSTRG.18586.1
scaffold_6	86010261	86010497	MSTRG.18587.1	MSTRG.18587.1
scaffold_6	86074520	86074733	MSTRG.18588.1	MSTRG.18588.1
scaffold_6	90106145	90106358	MSTRG.18592.1	MSTRG.18592.1
scaffold_6	14983174	15001808	NFKB2_g18627.t1	NFKB2_g18627.t1
scaffold_6	15010427	15011683	PTCD1_g18628.t1	PTCD1_g18628.t1
scaffold_6	84723950	84732307	SYT15_g19177.t3	SYT15_g19177.t3
scaffold_6	57	22270	ZN717_g18488.t1	ZN717_g18488.t1
scaffold_6	4	25827	MSTRG.17869.1	NOTHING
scaffold_6	213	25827	MSTRG.17869.3	NOTHING
scaffold_6	10662	25262	MSTRG.17869.4	NOTHING
scaffold_6	1478698	1479094	MSTRG.17882.1	NOTHING
scaffold_6	1489015	1489244	MSTRG.17883.1	NOTHING

scaffold_6	1934761	1934968	MSTRG.17889.1	NOTHING
scaffold_6	3416855	3417061	MSTRG.17891.1	NOTHING
scaffold_6	3554619	3554896	MSTRG.17892.1	NOTHING
scaffold_6	3570326	3611174	MSTRG.17894.1	NOTHING
scaffold_6	5583749	5648510	MSTRG.17904.1	NOTHING
scaffold_6	6009465	6009678	MSTRG.17907.1	NOTHING
scaffold_6	6071414	6523331	MSTRG.17911.3	NOTHING
scaffold_6	7446004	7446217	MSTRG.17915.1	NOTHING
scaffold_6	8279133	8279358	MSTRG.17920.1	NOTHING
scaffold_6	8174705	8210738	MSTRG.17922.8	NOTHING
scaffold_6	8174717	8207763	MSTRG.17922.9	NOTHING
scaffold_6	8064756	8076331	MSTRG.17923.1	NOTHING
scaffold_6	8068969	8076331	MSTRG.17923.2	NOTHING
scaffold_6	8695415	8695738	MSTRG.17926.1	NOTHING
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scaffold_6	15006620	15006963	MSTRG.17978.1	NOTHING
scaffold_6	15053261	15053541	MSTRG.17982.1	NOTHING
scaffold_6	15130268	15130476	MSTRG.17984.1	NOTHING
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scaffold_6	15152043	15175976	MSTRG.17987.2	NOTHING
scaffold_6	15317670	15367601	MSTRG.17989.3	NOTHING
scaffold_6	17805952	17889048	MSTRG.17998.3	NOTHING
scaffold_6	18583985	18584203	MSTRG.18002.1	NOTHING
scaffold_6	18748771	18753874	MSTRG.18004.1	NOTHING
scaffold_6	19323473	19323709	MSTRG.18006.1	NOTHING
scaffold_6	19074194	19217022	MSTRG.18008.9	NOTHING
scaffold_6	19676398	19679397	MSTRG.18010.2	NOTHING
scaffold_6	19676414	19679397	MSTRG.18010.3	NOTHING
scaffold_6	19678084	19679397	MSTRG.18010.4	NOTHING
scaffold_6	19334283	19334598	MSTRG.18011.1	NOTHING
scaffold_6	19374107	19374360	MSTRG.18012.1	NOTHING
scaffold_6	19422839	19423055	MSTRG.18014.1	NOTHING
scaffold_6	19542120	19542332	MSTRG.18016.1	NOTHING
scaffold_6	20922084	20922469	MSTRG.18022.1	NOTHING
scaffold_6	21063340	21063671	MSTRG.18025.1	NOTHING
scaffold_6	21309446	21309733	MSTRG.18027.1	NOTHING
scaffold_6	22868122	22920153	MSTRG.18037.1	NOTHING
scaffold_6	26726209	26726409	MSTRG.18041.1	NOTHING
scaffold_6	26853450	26853654	MSTRG.18042.1	NOTHING
scaffold_6	26854364	26854640	MSTRG.18044.1	NOTHING

scaffold_6	27687876	27789934	MSTRG.18055.2	NOTHING
scaffold_6	27927282	27936749	MSTRG.18056.3	NOTHING
scaffold_6	28018840	28019141	MSTRG.18057.1	NOTHING
scaffold_6	28020892	28021115	MSTRG.18058.1	NOTHING
scaffold_6	28025769	28026006	MSTRG.18060.1	NOTHING
scaffold_6	28385452	28392892	MSTRG.18071.1	NOTHING
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scaffold_6	28923262	28923481	MSTRG.18083.1	NOTHING
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scaffold_6	30003989	30004305	MSTRG.18095.1	NOTHING
scaffold_6	30158540	30158757	MSTRG.18100.1	NOTHING
scaffold_6	30728303	30749713	MSTRG.18115.5	NOTHING
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scaffold_6	32775491	32776209	MSTRG.18143.1	NOTHING
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scaffold_6	34076699	34076952	MSTRG.18164.1	NOTHING
scaffold_6	34075778	34076200	MSTRG.18165.1	NOTHING
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scaffold_6	34069502	34070766	MSTRG.18169.1	NOTHING
scaffold_6	34177877	34178111	MSTRG.18170.1	NOTHING
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scaffold_6	37378272	37486568	MSTRG.18191.4	NOTHING
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scaffold_6	40640491	40640697	MSTRG.18224.1	NOTHING
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scaffold_6	49499949	49500207	MSTRG.18250.1	NOTHING

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scaffold_6	64524957	64525167	MSTRG.18411.1	NOTHING
scaffold_6	64521301	64521597	MSTRG.18412.1	NOTHING

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scaffold_6	65347599	65347951	MSTRG.18435.1	NOTHING
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scaffold_6	67726337	67943573	MSTRG.18451.3	NOTHING
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scaffold_6	70839551	70839982	MSTRG.18477.1	NOTHING
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scaffold_6	74356584	74356869	MSTRG.18516.1	NOTHING
scaffold_6	74468658	74544298	MSTRG.18517.3	NOTHING
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scaffold_6	80453030	80454966	MSTRG.18547.1	NOTHING
scaffold_6	80240614	80240837	MSTRG.18550.1	NOTHING
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scaffold_6	80438970	80439200	MSTRG.18554.1	NOTHING
scaffold_6	81273082	81352891	MSTRG.18566.1	NOTHING

scaffold_6	81334213	81371203	MSTRG.18567.1	NOTHING
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scaffold_6	82222337	82222661	MSTRG.18572.1	NOTHING
scaffold_6	85309163	85316325	MSTRG.18589.1	NOTHING
scaffold_6	85312178	85316325	MSTRG.18589.2	NOTHING
scaffold_6	85314315	85316040	MSTRG.18589.3	NOTHING
scaffold_6	90337872	90515499	MSTRG.18594.1	NOTHING
scaffold_6	90883592	90883974	MSTRG.18597.1	NOTHING
scaffold_6	90886448	90886679	MSTRG.18598.1	NOTHING
scaffold_6	90885727	90886014	MSTRG.18599.1	NOTHING
scaffold_6	90884612	90884813	MSTRG.18600.1	NOTHING
scaffold_6	90889267	90889498	MSTRG.18601.1	NOTHING
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scaffold_6	90894719	90902449	MSTRG.18603.2	NOTHING
scaffold_6	28953390	28955506	MSTRG.18085.1	NPM3
scaffold_6	5924604	5927790	NPS_g18557.t1	NPS
scaffold_6	18589465	18659427	NRAP_g18660.t1	NRAP
scaffold_6	53761128	53788237	NRBF2_g18928.t1	NRBF2
scaffold_6	53760915	53788237	NRBF2_g18928.t2	NRBF2
scaffold_6	47189156	47200215	NS1_g18898.t1	NS1
scaffold_6	11311708	11324001	NSE4A_g18603.t1	NSMCE4A
scaffold_6	11311631	11325602	MSTRG.17948.1	NSMCE4A
scaffold_6	11314879	11319802	MSTRG.17948.3	NSMCE4A
scaffold_6	27778947	27789934	MSTRG.18055.5	NT5C2
scaffold_6	72351243	72390357	MSTRG.18498.2	NTPCR
scaffold_6	72351228	72390357	MSTRG.18498.1	NTPCR
scaffold_6	51936629	51936891	MSTRG.18278.1	NTRK2
scaffold_6	69494446	69544510	NU133_g19054.t1	NUP133
scaffold_6	62477765	62494465	NUD13_g19001.t1	NUD13
scaffold_6	69544728	69545387	MSTRG.18466.1	NUP133
scaffold_6	69545664	69547110	MSTRG.18468.1	NUP133
scaffold_6	8709270	8728429	OAT_g18577.t1	OAT
scaffold_6	8711548	8728429	MSTRG.17933.3	OAT
scaffold_6	27050457	27097409	MSTRG.18046.1	OBFC1
scaffold_6	28924641	28951126	OGA_g18735.t1	OGA
scaffold_6	82275953	82300242	OGDHL_g19145.t1	OGDHL
scaffold_6	62285298	62294708	MSTRG.18376.2	OIT3
scaffold_6	62279950	62307342	OIT3_g18998.t1	OIT3
scaffold_6	51869422	51869697	MSTRG.18275.1	OR4P66P
scaffold_6	81446207	81446971	OLF49_g19136.t1	OR6C74
scaffold_6	78040431	78040641	MSTRG.18537.1	OR6V1
scaffold_6	65506621	65506847	MSTRG.18413.1	OR7D4
scaffold_6	72035674	72037977	P210L_g19074.t1	P210L
scaffold_6	62374249	62460362	MSTRG.18377.1	P4HA1

scaffold_6	62374249	62460362	MSTRG.18377.2	P4HA1
scaffold_6	62375290	62438806	P4HA1_g19000.t1	P4HA1
scaffold_6	32421210	32436549	P4K2A_g18793.t1	P4K2A
scaffold_6	34213841	34247839	P5CS_g18820.t1	ALDH18A1
scaffold_6	10069446	10087352	PAAT_g18591.t1	SLC38A4
scaffold_6	10113533	10132459	PAAT_g18593.t1	SLC38A4
scaffold_6	60175909	60212814	PALD_g18977.t1	PALD1
scaffold_6	60138682	60214461	MSTRG.18356.1	PALD1
scaffold_6	39746873	39796999	PANK1_g18861.t1	PANK1
scaffold_6	396119	406715	PAOX_g18502.t1	PAOX
scaffold_6	42066307	42144016	PAPS2_g18885.t1	PAPS2
scaffold_6	4525737	4525997	PARK7_g18549.t1	PARK7
scaffold_6	58211926	58258201	MSTRG.18315.3	PBLD
scaffold_6	58257369	58268360	MSTRG.18316.4	PBLD
scaffold_6	58211926	58258201	MSTRG.18315.4	PBLD
scaffold_6	58212335	58232862	MSTRG.18315.5	PBLD
scaffold_6	58257367	58268360	MSTRG.18316.2	PBLD
scaffold_6	58257367	58268360	MSTRG.18316.3	PBLD
scaffold_6	58257373	58264685	MSTRG.18316.5	PBLD
scaffold_6	32392048	32394718	PCCB_g18790.t1	PCCB
scaffold_6	45577540	46461594	MSTRG.18252.5	PCDH15
scaffold_6	13338123	13338355	MSTRG.17958.1	PCDHB2
scaffold_6	38403696	38470985	MSTRG.18205.3	PCGF5
scaffold_6	38402317	38529613	MSTRG.18205.1	PCGF5
scaffold_6	38402317	38529613	MSTRG.18205.2	PCGF5
scaffold_6	38405047	38470985	MSTRG.18205.4	PCGF5
scaffold_6	38732152	38758383	MSTRG.18206.1	PCGF5
scaffold_6	38410752	38468350	PCGF5_g18855.t1	PCGF5
scaffold_6	27589809	27624107	PCGF6_g18708.t1	PCGF6
scaffold_6	72395908	72698623	PCX2_g19078.t1	PCX2
scaffold_6	27520337	27523252	MSTRG.18050.4	PDCD11
scaffold_6	27493850	27544946	MSTRG.18050.1	PDCD11
scaffold_6	21038934	21059407	PDCD4_g18672.t1	PDCD4
scaffold_6	36482616	36536901	PDE6C_g18836.t2	PDE6C
scaffold_6	34564700	34607495	MSTRG.18177.1	PDLIM1
scaffold_6	29619205	29626537	MSTRG.18091.1	PDZD7
scaffold_6	29619205	29631746	MSTRG.18091.2	PDZD7
scaffold_6	29619206	29636889	MSTRG.18091.3	PDZD7
scaffold_6	29600422	29618331	PDZD7_g18748.t1	PDZD7
scaffold_6	15288212	15367601	PDZD8_g18632.t1	PDZD8
scaffold_6	15288001	15370106	MSTRG.17989.1	PDZD8
scaffold_6	33391703	33456203	MSTRG.18151.2	PEX3
scaffold_6	42410407	42683472	MSTRG.18238.1	PEX3
scaffold_6	29755029	29755421	PFD4_g18755.t1	PFDN4
scaffold_6	29755017	29755421	PFD4_g18755.t2	PFDN4

scaffold_6	32613025	32619280	PGAM1_g18802.t2	PGAM1
scaffold_6	50309824	50371311	PHIPL_g18910.t1	PHYHIPL
scaffold_6	60477937	60482360	PHS_g18982.t1	PHS
scaffold_6	50372142	50372432	MSTRG.18258.1	PHYHIPL
scaffold_6	33278899	33388013	MSTRG.18149.1	PIK3AP1
scaffold_6	33278909	33356409	MSTRG.18149.2	PIK3AP1
scaffold_6	10940643	10978653	PKHA1_g18600.t1	PLEKHA1
scaffold_6	18496927	18529267	PKHS1_g18658.t1	PKHS1
scaffold_6	68207532	68219129	PLAC9_g19044.t1	PLAC9
scaffold_6	63124548	63130292	MSTRG.18391.1	PLAU
scaffold_6	18831656	18842697	MSTRG.18005.1	PLCD1
scaffold_6	35888486	36163083	PLCE1_g18832.t1	PLCE1
scaffold_6	78898484	78898792	PLEK_g19109.t1	PLEK
scaffold_6	10938860	10992593	MSTRG.17946.2	PLEKHA1
scaffold_6	10938477	10992593	MSTRG.17946.1	PLEKHA1
scaffold_6	29121690	29132963	MSTRG.18088.1	POLL
scaffold_6	34073580	34074527	MSTRG.18167.1	POLR2D
scaffold_6	62783224	62826181	PP2BB_g19007.t1	PPP3CB
scaffold_6	59871505	59909751	MSTRG.18353.1	PPA1
scaffold_6	5675001	5675369	MSTRG.17905.1	PPAT
scaffold_6	5676108	5677671	MSTRG.17906.1	PPAT
scaffold_6	67985166	67991968	MSTRG.18455.2	PPIF
scaffold_6	67985066	67991968	PPIF_g19041.t1	PPIF
scaffold_6	62781004	62826181	MSTRG.18382.3	PPP3CB
scaffold_6	38110699	38113963	PPR3C_g18852.t1	PPR3C
scaffold_6	38113025	38113963	PPR3C_g18853.t1	PPR3C
scaffold_6	28635084	28649415	PPRC1_g18729.t2	PPRC1
scaffold_6	433721	438384	PRAP1_g18505.t1	PRAP1
scaffold_6	13714811	13722549	PRDX3_g18617.t1	PRDX3
scaffold_6	28641955	28649415	MSTRG.18077.6	PRRC1
scaffold_6	69043181	69045970	PSA_g19050.t1	PSA
scaffold_6	28398844	28411944	PSD1_g18724.t1	PSD1
scaffold_6	10025500	10036692	MSTRG.17938.1	PSTK
scaffold_6	41883492	41990540	PTEN_g18883.t1	PTEN
scaffold_6	5476110	5521715	MSTRG.17902.1	PTPRE
scaffold_6	5478674	5489114	MSTRG.17902.3	PTPRE
scaffold_6	5478618	5513553	PTPRE_g18553.t1	PTPRE
scaffold_6	5676506	5677671	PUR1_g18555.t1	PUR1
scaffold_6	1451879	1463599	PWP2B_g18523.t1	PWP2B
scaffold_6	90549948	90564749	PXL2A_g19205.t1	PXL2A
scaffold_6	31786926	31812079	PYRD2_g18782.t1	PYROXD2
scaffold_6	31790326	31809011	MSTRG.18125.10	PYROXD2
scaffold_6	31786930	31814994	MSTRG.18125.8	PYROXD2
scaffold_6	31789385	31813184	MSTRG.18125.9	PYROXD2
scaffold_6	3868806	3871453	QUEA_g18546.t1	QUEA

scaffold_6	31941606	32036290	MSTRG.18129.1	R3HCC1L
scaffold_6	31942023	32036290	MSTRG.18129.2	R3HCC1L
scaffold_6	31949273	32036290	MSTRG.18129.4	R3HCC1L
scaffold_6	31942381	31972475	R3HCL_g18785.t1	R3HCC1L
scaffold_6	14686660	14696675	MSTRG.17975.2	RAB11FIP2
scaffold_6	14719770	14723712	MSTRG.17976.1	RAB11FIP2
scaffold_6	69656290	69702460	MSTRG.18469.2	RAB4A
scaffold_6	69652054	69654858	MSTRG.18470.1	RAB4A
scaffold_6	69652268	69652516	MSTRG.18471.1	RAB4A
scaffold_6	79018529	79041781	RASF4_g19112.t1	RASF4
scaffold_6	21187096	21293526	RBM20_g18674.t1	RBM20
scaffold_6	84528288	84528607	RBM28_g19172.t1	RBM28
scaffold_6	60769564	60769848	RBM3_g18984.t1	RBM3
scaffold_6	74378525	74393930	MSTRG.18514.1	RBM34
scaffold_6	74378608	74393930	RBM34_g19087.t1	RBM34
scaffold_6	3862528	3865723	MSTRG.17896.1	RBX1
scaffold_6	54139208	54242910	MSTRG.18303.1	REEP3
scaffold_6	80804728	80859214	RET_g19130.t1	RET
scaffold_6	14681255	14719712	RFIP2_g18625.t1	RFIP2
scaffold_6	80708603	80740149	RGF1A_g19128.t1	RASGEF1A
scaffold_6	87304477	87312841	RGR_g19194.t1	RGR
scaffold_6	13383287	13417939	RGS10_g18615.t1	RGS10
scaffold_6	81231141	81231356	MSTRG.18563.1	RGS17
scaffold_6	51791662	51828349	RHBT1_g18919.t1	RHOBTB1
scaffold_6	32716837	32773869	RHG19_g18806.t1	RHG19
scaffold_6	83454779	83529835	RHG22_g19160.t1	ARHGAP22
scaffold_6	51791662	51855775	MSTRG.18273.4	RHOBTB1
scaffold_6	51788727	51855775	MSTRG.18273.1	RHOBTB1
scaffold_6	51788727	51855775	MSTRG.18273.2	RHOBTB1
scaffold_6	51789706	51855775	MSTRG.18273.3	RHOBTB1
scaffold_6	10056819	10057025	MSTRG.17937.1	RIIAD1
scaffold_6	30679691	30680137	RL27A_g18772.t1	RPL27A
scaffold_6	29636990	29638182	RM43_g18751.t1	RM43
scaffold_6	18831658	18840966	MSTRG.18005.2	RNF215
scaffold_6	41328847	41590752	RNLS_g18882.t1	RNLS
scaffold_6	41328753	41592182	MSTRG.18230.1	RNLS
scaffold_6	66737726	66784745	RPC1_g19037.t1	RPC1
scaffold_6	44366502	44367070	MSTRG.18241.1	RPL17
scaffold_6	24665702	24666113	MSTRG.18039.1	RPL34
scaffold_6	38733433	38758383	RPP30_g18857.t1	RPP30
scaffold_6	66786756	66792827	MSTRG.18444.1	RPS24
scaffold_6	66787513	66792827	MSTRG.18444.4	RPS24
scaffold_6	32636680	32666934	RRP12_g18803.t1	RRP12
scaffold_6	32636803	32666934	RRP12_g18803.t2	RRP12
scaffold_6	27498939	27543498	RRP5_g18706.t1	RRP5

scaffold_6	66786816	66790045	RS24_g19038.t1	RPS24
scaffold_6	66786816	66789851	RS24_g19038.t2	RPS24
scaffold_6	62604996	62606461	RT16_g19005.t1	MRPS16
scaffold_6	52967010	53040615	RTKN2_g18924.t1	RTKN2
scaffold_6	52963081	53040615	MSTRG.18286.1	RTKN2
scaffold_6	58271559	58313124	RUFY2_g18944.t1	RUFY2
scaffold_6	58268733	58313124	MSTRG.18317.1	RUFY2
scaffold_6	22948583	22969441	RXLT1_g18685.t1	RXLT1
scaffold_6	76029740	76577262	MSTRG.18544.1	RYR2
scaffold_6	76539325	76543502	MSTRG.18544.4	RYR2
scaffold_6	76194984	76721270	RYR2_g19100.t1	RYR2
scaffold_6	76029938	76722483	MSTRG.18544.2	RYR2
scaffold_6	76554909	76579741	MSTRG.18544.5	RYR2
scaffold_6	13054529	13090447	S23IP_g18610.t1	SEC23IP
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scaffold_6	73238302	73582934	S35F3_g19081.t1	SLC35F3
scaffold_6	73632971	73650598	S35F3_g19082.t2	SLC35F3
scaffold_6	36293846	36301442	S35G1_g18833.t1	S35G1
scaffold_6	13151594	13236542	SAC2_g18612.t1	SAC2
scaffold_6	64206315	64270978	MSTRG.18399.1	SAMD8
scaffold_6	64206319	64268987	SAMD8_g19025.t1	SAMD8
scaffold_6	61361743	61393705	SAP_g18989.t1	SAP
scaffold_6	62974264	62997048	SC24C_g19011.t1	SEC24C
scaffold_6	30041789	30067573	SC31B_g18759.t1	SC31B
scaffold_6	30163207	30174936	ACOD_g18761.t1	SCD
scaffold_6	13045705	13090447	MSTRG.17955.1	SEC231P
scaffold_6	13047505	13070360	MSTRG.17955.2	SEC23IP
scaffold_6	62972204	62997048	MSTRG.18387.1	SEC24C
scaffold_6	30038869	30068503	MSTRG.18103.4	SEC31B
scaffold_6	30038863	30068503	MSTRG.18103.1	SEC31B
scaffold_6	30038863	30068503	MSTRG.18103.2	SEC31B
scaffold_6	30038863	30068503	MSTRG.18103.3	SEC31B
scaffold_6	30049212	30068503	MSTRG.18103.6	SEC31B
scaffold_6	29640281	29649492	SEM4G_g18752.t1	SEMA4G
scaffold_6	29638821	29652514	MSTRG.18093.1	SEMA4G
scaffold_6	32344582	32344790	MSTRG.18124.1	SFRP5
scaffold_6	32347838	32352789	SFRP5_g18788.t1	SFRP5
scaffold_6	28135594	28157094	MSTRG.18064.1	SFXN2
scaffold_6	28135594	28157094	MSTRG.18064.2	SFXN2
scaffold_6	28137129	28146389	SFXN2_g18716.t1	SFXN2
scaffold_6	13725567	13746851	SFXN4_g18618.t1	SFXN4
scaffold_6	42601241	42683472	MSTRG.18238.2	SGMS1
scaffold_6	42497978	42512898	MSTRG.18239.1	SGMS1
scaffold_6	60451729	60471473	MSTRG.18358.3	SGPL1
scaffold_6	60422697	60475071	SGPL1_g18981.t1	SGPL1

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scaffold_6	90337872	90458221	SH24B_g19203.t1	SH2D4B
scaffold_6	84749662	84797878	SHLD2_g19178.t1	SHLD2
scaffold_6	84749662	84797984	SHLD2_g19178.t2	SHLD2
scaffold_6	20926380	21022942	MSTRG.18023.1	SHOC2
scaffold_6	20930425	20973655	SHOC2_g18671.t1	SHOC2
scaffold_6	15610940	15705644	SHOT1_g18638.t1	SHOT1
scaffold_6	71821488	71896884	SI1L2_g19073.t1	SIPA1L2
scaffold_6	71794636	71817153	MSTRG.18493.1	SIPA1L2
scaffold_6	57879257	57895761	SIR1_g18938.t1	SIRT1
scaffold_6	57895762	57902948	SIR1_g18938.t2	SIRT1
scaffold_6	57875868	57895761	MSTRG.18310.1	SIRT1
scaffold_6	57881250	57903974	MSTRG.18310.3	SIRT1
scaffold_6	57881268	57895761	MSTRG.18310.4	SIRT1
scaffold_6	50725329	50781532	MSTRG.18265.1	SLC16A9
scaffold_6	15371653	15371885	MSTRG.17988.1	SLC18A2
scaffold_6	58379241	58418424	MSTRG.18319.1	SLC25A16
scaffold_6	30770103	30780200	MSTRG.18121.2	SLC25A28
scaffold_6	30775444	30780200	MSTRG.18121.3	SLC25A28
scaffold_6	60882232	60929267	MSTRG.18360.1	SLC29A3
scaffold_6	60882236	60929267	MSTRG.18360.2	SLC29A3
scaffold_6	59829706	59844457	MSTRG.18349.1	SLC7A14
scaffold_6	59830377	59844457	MSTRG.18349.2	SLC7A14
scaffold_6	29656610	29697498	MSTRG.18096.1	SLF2
scaffold_6	29659965	29697498	SLF2_g18753.t1	SLF2
scaffold_6	32815512	32993406	SLIT1_g18807.t1	SLIT1
scaffold_6	26956733	27009361	SLK_g18698.t1	SLK
scaffold_6	49555592	49583799	MSTRG.18256.4	SMARCC2
scaffold_6	21341614	21376565	MSTRG.18029.1	SMC3
scaffold_6	21346186	21353638	MSTRG.18029.2	SMC3
scaffold_6	21349598	21376565	SMC3_g18676.t1	SMC3
scaffold_6	21589083	21600585	MSTRG.18033.3	SMNDC1
scaffold_6	21588784	21602375	MSTRG.18033.1	SMNDC1
scaffold_6	21590133	21600585	MSTRG.18033.4	SMNDC1
scaffold_6	34329698	34548887	MSTRG.18178.6	SORBS1
scaffold_6	34459622	34509512	MSTRG.18178.8	SORBS1
scaffold_6	34512125	34541631	MSTRG.18178.9	SORBS1
scaffold_6	50724851	50725060	MSTRG.18264.1	SPATA2
scaffold_6	27125849	27360492	SPD2A_g18700.t1	SPD2A
scaffold_6	61551650	61645937	MSTRG.18367.1	SPOCK2
scaffold_6	375655	376104	SPRN_g18500.t1	SPRN
scaffold_6	70844807	70856027	SPRTN_g19069.t1	SPRTN
scaffold_6	70844436	70861093	MSTRG.18481.1	SPRTN
scaffold_6	70844447	70861093	MSTRG.18481.2	SPRTN
scaffold_6	58908362	58919160	SRGN_g18957.t1	SRGN

scaffold_6	19551434	19551767	MSTRG.18017.1	SSTR3
scaffold_6	40705357	40728962	STALP_g18873.t1	STAMBPL1
scaffold_6	40704935	40755629	MSTRG.18227.1	STAMBPL1
scaffold_6	40704935	40755629	MSTRG.18227.2	STAMBPL1
scaffold_6	40705113	40755629	MSTRG.18227.3	STAMBPL1
scaffold_6	27050920	27097409	STN1_g18699.t1	STN1
scaffold_6	58671603	58730688	STOX1_g18950.t1	STOX1
scaffold_6	28233491	28334787	SUFU_g18719.t1	SUFU
scaffold_6	11609668	11610183	MSTRG.17949.1	SUMO2
scaffold_6	58996472	59001441	MSTRG.18338.2	SUPV3L1
scaffold_6	58975299	59001441	SUV3_g18959.t1	SUV3
scaffold_6	11083687	11209898	MSTRG.17947.1	TACC2
scaffold_6	11084160	11160265	TACC2_g18602.t1	TACC2
scaffold_6	27551170	27564555	MSTRG.18053.1	TAF5
scaffold_6	27551399	27564555	TAF5_g18707.t1	TAF5
scaffold_6	38401333	38401620	MSTRG.18202.1	TAF5L
scaffold_6	69387494	69418303	MSTRG.18461.1	TAF5L
scaffold_6	69397681	69417339	TAF5L_g19052.t1	TAF5L
scaffold_6	73716968	73804882	TARB1_g19083.t1	TARB1
scaffold_6	73775042	73804882	MSTRG.18513.5	TARBP1
scaffold_6	73716694	73738250	MSTRG.18513.1	TARBP1
scaffold_6	73716742	73721987	MSTRG.18513.2	TARBP1
scaffold_6	73747886	73804882	MSTRG.18513.4	TARBP1
scaffold_6	60387518	60397801	TBATA_g18980.t1	TBATA
scaffold_6	35711965	35811536	TBC12_g18830.t1	TBC1D12
scaffold_6	37434311	37486568	TBD2A_g18846.t1	TBC1D2
scaffold_6	41007114	41008216	MSTRG.18229.1	TCF12
scaffold_6	19024139	19217022	MSTRG.18008.3	TCF7L2
scaffold_6	19022102	19217022	MSTRG.18008.1	TCF7L2
scaffold_6	19022102	19042007	MSTRG.18008.2	TCF7L2
scaffold_6	19024139	19217022	MSTRG.18008.4	TCF7L2
scaffold_6	19024587	19217022	MSTRG.18008.5	TCF7L2
scaffold_6	19024587	19217022	MSTRG.18008.6	TCF7L2
scaffold_6	65549485	65549832	TCPG_g19031.t1	CCT3
scaffold_6	34213423	34247839	MSTRG.18174.1	TCTN3
scaffold_6	19797626	19812636	TECTB_g18668.t1	TECTB
scaffold_6	58434343	58577340	MSTRG.18321.1	TET1
scaffold_6	58434343	58551838	MSTRG.18321.2	TET1
scaffold_6	58434347	58577340	MSTRG.18321.3	TET1
scaffold_6	58434353	58577340	MSTRG.18321.4	TET1
scaffold_6	19026476	19217022	TF7L2_g18662.t1	TF7L2
scaffold_6	49603741	49616535	TFAM_g18907.t1	TFAM
scaffold_6	49616757	49617470	MSTRG.18260.1	TFAM
scaffold_6	49617839	49618839	MSTRG.18266.1	TFAM
scaffold_6	2025090	2025461	TFR1_g18533.t1	TFR1

scaffold_6	13348287	13361085	TIAR_g18614.t1	TIAL1
scaffold_6	82058661	82092359	TIM23_g19143.t1	TIM23
scaffold_6	33456629	33457105	MSTRG.18150.1	TLL2
scaffold_6	33463010	33611550	TLL2_g18811.t1	TLL2
scaffold_6	68272404	68278470	TM254_g19045.t1	TM254
scaffold_6	33390968	33456203	TM9S3_g18810.t1	TM9S3
scaffold_6	68270826	68275163	MSTRG.18457.1	TMEM254
scaffold_6	52265323	52304350	MSTRG.18283.2	TMEM26
scaffold_6	52265323	52304350	MSTRG.18283.3	TMEM26
scaffold_6	52265221	52304350	MSTRG.18283.1	TMEM26
scaffold_6	52268987	52304350	TMM26_g18922.t1	TMEM26
scaffold_6	37938539	38000947	MSTRG.18201.1	TNKS2
scaffold_6	37941424	38000947	TNKS2_g18851.t1	TNKS2
scaffold_6	40620325	40642496	TNR6_g18871.t1	TNR6
scaffold_6	74360090	74374346	TOM20_g19086.t1	TOMM20
scaffold_6	5578228	5578429	MSTRG.17903.1	TOR1AIP1
scaffold_6	30264693	30264901	MSTRG.18105.1	TRAM1
scaffold_6	28220035	28221707	MSTRG.18065.1	TRIM8
scaffold_6	28206728	28219445	TRIM8_g18718.t1	TRIM8
scaffold_6	33881604	33882293	TRIO_g18816.t1	TRIO
scaffold_6	17417169	17450256	TRUB1_g18647.t1	TRUB1
scaffold_6	59219732	59271681	TSN15_g18963.t1	TSN15
scaffold_6	71034778	71064048	TSNAX_g19071.t1	TSNAX
scaffold_6	71030780	71065241	MSTRG.18484.1	TSNAX
scaffold_6	70485189	70561092	MSTRG.18474.2	TTC13
scaffold_6	47954017	47975937	TTL10_g18902.t1	TTL10
scaffold_6	531617	568880	MSTRG.17879.1	TUBGCP2
scaffold_6	49548424	49579213	UB2D1_g18906.t1	UBE2D1
scaffold_6	57750240	57750935	UB2E3_g18936.t1	UB2E3
scaffold_6	49548232	49555521	MSTRG.18256.1	UBE2D1
scaffold_6	49548232	49583799	MSTRG.18256.2	UBE2D1
scaffold_6	62828618	62883752	UBP54_g19008.t1	USP54
scaffold_6	32506977	32558054	UBTD1_g18798.t1	UBTD1
scaffold_6	66822722	66822922	MSTRG.18446.1	UHRF2
scaffold_6	60785460	60866894	UNC5B_g18985.t1	UNC5B
scaffold_6	19408155	19408410	MSTRG.18013.1	UPP2
scaffold_6	69361831	69385434	URB2_g19051.t1	URB2
scaffold_6	69361542	69387455	MSTRG.18460.1	URB2
scaffold_6	63124984	63130292	UROK_g19017.t1	PLAU
scaffold_6	7457445	7504229	MSTRG.17916.1	UROS
scaffold_6	7457508	7504229	MSTRG.17916.2	UROS
scaffold_6	7472397	7497718	MSTRG.17916.4	UROS
scaffold_6	62827924	62851224	MSTRG.18384.2	USP54
scaffold_6	62827889	62910810	MSTRG.18384.1	USP54
scaffold_6	62853072	62864178	MSTRG.18384.4	USP54

scaffold_6	64296363	64313178	VDAC2_g19026.t1	VDAC2
scaffold_6	63189392	63289772	VINC_g19018.t1	NEAT1
scaffold_6	61298751	61322100	VISTA_g18988.t1	VSIR
scaffold_6	58937112	58968390	VP26A_g18958.t1	VPS26A
scaffold_6	58937257	58968390	MSTRG.18337.2	VPS26A
scaffold_6	82886344	82980534	VSTM4_g19156.t1	VSTM4
scaffold_6	19329207	19329497	MSTRG.18007.1	VTI1A
scaffold_6	19330241	19331260	MSTRG.18009.1	VTI1A
scaffold_6	19331400	19679397	VTI1A_g18663.t1	VTI1A
scaffold_6	81897534	81951262	WAC2C_g19141.t1	WAC2C
scaffold_6	85316398	85414251	MSTRG.18590.1	WAPL
scaffold_6	85316398	85414251	MSTRG.18590.2	WAPL
scaffold_6	85319883	85411971	WAPL_g19188.t1	WAPL
scaffold_6	81897369	81951262	MSTRG.18569.1	WASHC2A
scaffold_6	81897387	81904774	MSTRG.18569.2	WASHC2A
scaffold_6	28071705	28072493	MSTRG.18062.1	WBP1L
scaffold_6	28074745	28103556	MSTRG.18063.2	WBP1L
scaffold_6	28074358	28132437	WBP1L_g18715.t1	WBP1L
scaffold_6	83008110	83283772	WDFY4_g19157.t1	WDFY4
scaffold_6	12248786	12307251	MSTRG.17954.1	WDR11
scaffold_6	12248786	12307251	MSTRG.17954.2	WDR11
scaffold_6	12250979	12307251	WDR11_g18608.t1	WDR11
scaffold_6	30072367	30075409	WNT8B_g18760.t1	WNT8B
scaffold_6	21955957	22011563	XPP1_g18681.t1	XPP1
scaffold_6	33818818	33823407	Z518A_g18815.t1	ZNF518A
scaffold_6	68011471	68011760	MSTRG.18448.1	ZCCHC24
scaffold_6	68012861	68013069	MSTRG.18449.1	ZCCHC24
scaffold_6	68014438	68015500	MSTRG.18452.1	ZCCHC24
scaffold_6	68013762	68014049	MSTRG.18454.1	ZCCHC24
scaffold_6	68014565	68072830	ZCH24_g19042.t1	ZCCHC24
scaffold_6	32592708	32598105	ZDH16_g18800.t1	ZDHHC16
scaffold_6	19681057	19697033	ZDHC6_g18665.t1	ZDHHC6
scaffold_6	32591752	32601722	MSTRG.18138.2	ZDHHC16
scaffold_6	32591765	32601722	MSTRG.18138.3	ZDHHC16
scaffold_6	32591878	32601722	MSTRG.18138.4	ZDHHC16
scaffold_6	32592273	32595043	MSTRG.18138.5	ZDHHC16
scaffold_6	19679429	19697033	MSTRG.18019.2	ZDHHC6
scaffold_6	19679484	19697033	MSTRG.18019.3	ZDHHC6
scaffold_6	81767678	81886063	ZFAN4_g19140.t1	ZFAND4
scaffold_6	32361089	32379187	ZFY27_g18789.t1	ZFYVE27
scaffold_6	32359301	32380619	MSTRG.18127.1	ZFYVE27
scaffold_6	32368253	32380619	MSTRG.18127.3	ZFYVE27
scaffold_6	67718147	67718838	MSTRG.18450.1	ZMIZ1
scaffold_6	67718903	67954816	MSTRG.18451.1	ZMIZ1
scaffold_6	67718903	67954816	MSTRG.18451.2	ZMIZ1

scaffold_6	67801330	67954816	ZMIZ1_g19040.t1	ZMIZ1
scaffold_6	80305154	80306332	ZN239_g19123.t1	ZNF239
scaffold_6	80259119	80259619	ZN485_g19120.t1	ZNF485
scaffold_6	64428411	64431053	ZN503_g19028.t1	ZNF503
scaffold_6	80381946	80402052	ZN510_g19124.t1	ZNF510
scaffold_6	527721	531557	ZN511_g18509.t1	ZNF511
scaffold_6	79006812	79010160	MSTRG.18542.1	ZNF22
scaffold_6	79008004	79008767	ZNF22_g19111.t1	ZNF22
scaffold_6	81206117	81206489	MSTRG.18562.1	ZNF248
scaffold_6	81207479	81225522	MSTRG.18564.1	ZNF248
scaffold_6	81207780	81215230	MSTRG.18564.3	ZNF248
scaffold_6	81339697	81371092	MSTRG.18567.3	ZNF25
scaffold_6	81339705	81371203	MSTRG.18567.4	ZNF25
scaffold_6	81334213	81369034	ZNF25_g19134.t1	ZNF25
scaffold_6	80237341	80240234	MSTRG.18549.1	ZNF32
scaffold_6	80237996	80240234	ZNF32_g19119.t1	ZNF32
scaffold_6	78855773	78898904	MSTRG.18545.1	ZNF33B
scaffold_6	81386014	81403311	MSTRG.18565.1	ZNF33B
scaffold_6	53111846	53112063	MSTRG.18287.1	ZNF365
scaffold_6	53132417	53133623	MSTRG.18288.1	ZNF365
scaffold_6	78801325	78801541	MSTRG.18539.1	ZNF37A
scaffold_6	64431088	64431310	MSTRG.18404.1	ZNF503
scaffold_6	80458784	80458996	MSTRG.18548.1	ZNF510
scaffold_6	80413511	80442906	MSTRG.18552.1	ZNF510
scaffold_6	33817441	33842329	MSTRG.18154.1	ZNF518A
scaffold_6	71385230	71385930	MSTRG.18491.1	ZNF804A
scaffold_6	11329053	11344226	MSTRG.17950.1	POLR1HASP
scaffold_6	11329053	11334256	ZRAS1_g18604.t1	POLR1HASP
scaffold_6	74339252	74343970	ZP3_g19085.t1	ZP3
scaffold_6	8213753	8254277	ZRAN1_g18571.t1	ZRANB1
scaffold_6	63009126	63023323	MSTRG.18389.1	ZSWIM8
scaffold_6	63009164	63023323	MSTRG.18389.2	ZSWIM8
scaffold_6	63009170	63021060	MSTRG.18389.3	ZSWIM8
scaffold_6	63009444	63023323	ZSWM8_g19014.t1	ZSWIM8
scaffold_6	47847423	47867643	MSTRG.18248.1	ZWINT
scaffold_6	47864423	47865699	MSTRG.18248.2	ZWINT
scaffold_6	47864677	47867643	ZWINT_g18901.t1	ZWINT
scaffold_7	23382183	23407530	2AAB_g19496.t1	PPP2R1B
scaffold_7	21343062	21356155	5HT3A_g19470.t1	HTR3A
scaffold_7	56861521	56875254	A16L2_g19714.t1	ATG16L2
scaffold_7	52434072	52471907	MSTRG.18985.1	AAMDC
scaffold_7	52437870	52471907	MSTRG.18985.2	AAMDC
scaffold_7	1175562	1191316	ACAD8_g19217.t1	ACAD8
scaffold_7	1175023	1175351	MSTRG.18604.1	ACAD8
scaffold_7	26559253	26581663	MSTRG.18813.1	ACAT1

scaffold_7	57694277	57699730	ACH10_g19733.t2	CHRNA10
scaffold_7	26857077	26857306	MSTRG.18819.1	ADAM33
scaffold_7	4774333	4774565	MSTRG.18615.1	ADAMTS15
scaffold_7	4835618	4836063	MSTRG.18617.1	ADAMTS8
scaffold_7	76313585	76313793	MSTRG.19242.1	ADIPOQ
scaffold_7	67605987	67610720	MSTRG.19175.1	ADM
scaffold_7	67605995	67610720	MSTRG.19175.2	ADM
scaffold_7	67605995	67610720	MSTRG.19175.3	ADM
scaffold_7	67606974	67610720	MSTRG.19175.4	ADM
scaffold_7	67609175	67610720	ADML_g20038.t1	ADM
scaffold_7	28272665	28297010	ADPPT_g19529.t1	AASDHPPT
scaffold_7	24588647	24620316	ADX_g19508.t1	FDX1
scaffold_7	74800295	74848148	MSTRG.19226.6	AKAP5
scaffold_7	84487891	84494493	AL14E_g20151.t1	ARL14EP
scaffold_7	52215990	52241229	ALG8_g19649.t1	ALG8
scaffold_7	52215990	52241803	MSTRG.18984.1	ALG8
scaffold_7	23369329	23369561	MSTRG.18780.1	ALG9
scaffold_7	23277986	23368215	MSTRG.18782.1	ALG9
scaffold_7	37960827	38023027	MSTRG.18913.4	AMOTL1
scaffold_7	38016619	38019157	MSTRG.18913.6	AMOTL1
scaffold_7	67721450	67762323	AMPD3_g20039.t1	AMPD3
scaffold_7	31940799	31956549	ANGL5_g19556.t1	ANGPTL5
scaffold_7	76295623	76308054	MSTRG.19234.2	ANKAR
scaffold_7	47881389	47897513	MSTRG.18959.2	ANKRD42
scaffold_7	38281774	38288034	MSTRG.18915.1	ANKRD49
scaffold_7	76310921	76439958	ANM3_g20117.t1	PRMT3
scaffold_7	81164993	81364948	ANO3_g20132.t1	ANO3
scaffold_7	38283014	38285023	ANR49_g19582.t1	ANKRD29
scaffold_7	63316305	63337884	APBB1_g19964.t1	APBB1
scaffold_7	5040534	5120361	APLP2_g19235.t1	APLP2
scaffold_7	18772715	18774472	APOA1_g19454.t1	APOA1
scaffold_7	18770390	18774472	MSTRG.18728.1	APOA1
scaffold_7	56946214	56986512	ARAP1_g19717.t1	ARAP1
scaffold_7	17192853	17219626	MSTRG.18705.1	ARCN1
scaffold_7	17203155	17215124	MSTRG.18706.1	ARCN1
scaffold_7	52777834	52911587	MSTRG.18990.1	ARFGEF3
scaffold_7	52778239	52867741	MSTRG.18990.2	ARFGEF3
scaffold_7	63385427	63392552	MSTRG.19121.1	ARFIP2
scaffold_7	63388187	63392552	MSTRG.19121.2	ARFIP2
scaffold_7	63388187	63391549	ARFP2_g19967.t1	ARFIP2
scaffold_7	24380753	24496887	MSTRG.18792.1	ARHGAP20
scaffold_7	5832861	6175976	MSTRG.18627.2	ARHGAP32
scaffold_7	32660870	32661163	MSTRG.18875.1	ARHGAP42
scaffold_7	32665484	32710506	MSTRG.18879.1	ARHGAP42
scaffold_7	15499843	15636517	MSTRG.18681.1	ARHGEF12

scaffold_7	15499843	15636517	MSTRG.18681.2	ARHGEF12
scaffold_7	15500473	15636517	MSTRG.18681.4	ARHGEF12
scaffold_7	56385964	56447308	MSTRG.19046.1	ARHGEF17
scaffold_7	70088434	70192921	MSTRG.19189.1	BMAL1
scaffold_7	70088434	70192921	MSTRG.19189.2	BMAL1
scaffold_7	70088438	70192921	MSTRG.19189.3	BMAL1
scaffold_7	54720906	54794880	ARRB1_g19681.t1	ARRB1
scaffold_7	54797775	54798190	MSTRG.19019.1	ARRB1
scaffold_7	54720828	54797513	MSTRG.19020.1	ARRB1
scaffold_7	54399957	54400261	MSTRG.19010.1	ART1
scaffold_7	63311597	63315389	ASM_g19963.t1	SMPD1
scaffold_7	63311495	63315389	ASM_g19963.t2	SMPD1
scaffold_7	12788626	12951841	ASTRB_g19373.t1	GRAMD1B
scaffold_7	56861187	56875254	MSTRG.19049.1	ATG16L2
scaffold_7	56864206	56866513	MSTRG.19049.3	ATG16L2
scaffold_7	26407030	26483024	ATM_g19519.t1	ATM
scaffold_7	26360943	26408009	MSTRG.18814.1	ATM
scaffold_7	26361095	26487067	MSTRG.18814.2	ATM
scaffold_7	17364661	17370553	ATP5L_g19433.t1	ATP5MG
scaffold_7	4815445	4835274	ATS8_g19232.t1	ADAMTS8
scaffold_7	53209049	53212021	B3GN6_g19664.t1	B3GNT6
scaffold_7	18329776	18354062	BACE1_g19447.t1	BACE1
scaffold_7	5632842	5698622	BARX2_g19240.t2	BARX2
scaffold_7	16933843	16960873	MSTRG.18702.1	BCL9L
scaffold_7	31521833	31542303	BIRC2_g19551.t1	BIRC2
scaffold_7	31566904	31578216	BIRC3_g19552.t1	BIRC3
scaffold_7	31566419	31583866	MSTRG.18846.1	BIRC3
scaffold_7	31566420	31583866	MSTRG.18846.2	BIRC3
scaffold_7	31566469	31593892	MSTRG.18846.4	BIRC3
scaffold_7	70161002	70192381	BMAL1_g20057.t1	ARNTL
scaffold_7	70160906	70192381	BMAL1_g20057.t2	ARNTL
scaffold_7	70193446	70259543	MSTRG.19191.1	BTBD10
scaffold_7	70193446	70259543	MSTRG.19191.2	BTBD10
scaffold_7	70194467	70241836	BTBDA_g20058.t1	BTBD10
scaffold_7	18840569	18867037	BUD13_g19459.t1	BUD13
scaffold_7	23266928	23270465	CK001_g19493.t1	CFAP68
scaffold_7	38843051	38861376	MSTRG.18925.2	C11ORF54
scaffold_7	23122998	23132377	MSTRG.18771.1	NKAPD1
scaffold_7	23125288	23132377	MSTRG.18771.2	NKAPD1
scaffold_7	23125885	23132324	MSTRG.18771.4	NKAPD1
scaffold_7	38842933	38861376	MSTRG.18925.1	NKAPD1
scaffold_7	73259706	73276417	MSTRG.19207.3	C11ORF58
scaffold_7	73259759	73276417	MSTRG.19207.4	C11ORF58
scaffold_7	45215353	45258578	MSTRG.18943.1	HIKESHI
scaffold_7	45250094	45258578	MSTRG.18943.3	HIKESHI

scaffold_7	25863146	25863398	MSTRG.18809.1	SPRING1
scaffold_7	17267782	17269866	MSTRG.18715.1	HAPSTR1
scaffold_7	27030958	27075758	C19L2_g19526.t1	CWF19L2
scaffold_7	27121759	27240725	C19L2_g19526.t2	CWF19L2
scaffold_7	16774705	16782987	C2C2L_g19408.t1	C2CD2L
scaffold_7	16773687	16782987	MSTRG.18692.1	C2CD2L
scaffold_7	55675684	55797854	C2CD3_g19698.t1	C2CD3
scaffold_7	84449679	84449976	MSTRG.19272.1	C6
scaffold_7	19990516	20305780	CADM1_g19460.t1	CADM1
scaffold_7	20307515	20307724	MSTRG.18736.1	CADM1
scaffold_7	53137350	53188223	MSTRG.19000.2	CAPN5
scaffold_7	16773687	16782987	MSTRG.18692.2	CAPN6
scaffold_7	16773846	16780277	MSTRG.18692.3	CAPN6
scaffold_7	29264120	29275802	CASP1_g19535.t1	CASP1
scaffold_7	29289770	29290935	MSTRG.18833.1	CASP1
scaffold_7	16877268	16885780	CATAC_g19418.t1	CENATAC
scaffold_7	43691291	43728333	CATC_g19613.t1	CTSC
scaffold_7	63264554	63265907	CAVN3_g19962.t1	CAVIN3
scaffold_7	16627377	16709798	CBL_g19402.t1	CBL
scaffold_7	16619311	16709798	MSTRG.18689.1	CBL
scaffold_7	32389069	32412936	CC141_g19559.t1	CCDC141
scaffold_7	47826075	47844967	CC90B_g19634.t1	CCDC90B
scaffold_7	6525951	6540967	CCA_g19246.t1	FBN2
scaffold_7	9980036	10000952	CCD15_g19273.t1	CCDC15
scaffold_7	10022089	10116539	CCD15_g19273.t2	CCDC15
scaffold_7	81991306	82010405	CCD34_g20138.t1	CCDC34
scaffold_7	86477883	86621825	CCD73_g20167.t1	CCDC73
scaffold_7	36584795	36609915	CCD82_g19567.t1	CCDC82
scaffold_7	45585617	45621932	CCD83_g19624.t1	CCDC83
scaffold_7	39107280	39107497	MSTRG.18923.1	DEUP1
scaffold_7	16874772	16877383	MSTRG.18700.1	CENATAC
scaffold_7	16874791	16877383	MSTRG.18700.2	CENATAC
scaffold_7	16877268	16885780	MSTRG.18701.2	CENATAC
scaffold_7	47825333	47844967	MSTRG.18958.1	CCDC90B
scaffold_7	47826066	47844967	MSTRG.18958.2	CCDC90B
scaffold_7	84461728	84473397	MSTRG.19273.2	CCIN
scaffold_7	63222030	63222526	MSTRG.19111.1	CCKBR
scaffold_7	63514025	63549255	MSTRG.19128.1	CDHR5
scaffold_7	8870220	8925409	CDON_g19256.t1	CDON
scaffold_7	8835129	8918952	MSTRG.18643.1	CDON
scaffold_7	8838757	8926745	MSTRG.18643.2	CDON
scaffold_7	8908734	8918952	MSTRG.18643.4	CDON
scaffold_7	8920251	8927859	MSTRG.18643.5	CDON
scaffold_7	31859437	31935872	CE126_g19555.t1	CEP126
scaffold_7	38871633	38920757	CE295_g19594.t1	CEP295

scaffold_7	8994073	9018327	CENPJ_g19261.t1	CENPJ
scaffold_7	53136262	53188223	MSTRG.19000.1	CENPK
scaffold_7	18259860	18323846	MSTRG.18720.1	CEP164
scaffold_7	18270378	18303063	MSTRG.18720.3	CEP164
scaffold_7	38871633	38920757	MSTRG.18926.2	CEP295
scaffold_7	38884437	38920757	MSTRG.18926.4	CEP295
scaffold_7	37104616	37142391	CEP57_g19570.t1	CEP57
scaffold_7	37103113	37142391	MSTRG.18905.1	CEP57
scaffold_7	37142446	37163560	MSTRG.18906.1	CEP57
scaffold_7	37142504	37163560	MSTRG.18906.2	CEP57
scaffold_7	31786838	31813695	CF300_g19554.t1	CFAP300
scaffold_7	21101938	21103687	CFA65_g19467.t1	CFAP65
scaffold_7	9514182	9514500	MSTRG.18647.1	CHEK1
scaffold_7	9483590	9513369	MSTRG.18648.1	CHEK1
scaffold_7	9484522	9510935	CHK1_g19267.t1	CHEK1
scaffold_7	41895713	41915752	CHRD1_g19605.t1	CHORDC1
scaffold_7	66398890	66406529	CK016_g20027.t1	C11ORF16
scaffold_7	63160444	63165650	CK042_g19958.t1	C11ORF42
scaffold_7	20979965	20980360	CK071_g19465.t1	C11ORF71
scaffold_7	13182934	13271700	CLMP_g19375.t1	CLMP
scaffold_7	13248603	13271700	MSTRG.18666.2	CLMP
scaffold_7	13266721	13271956	MSTRG.18668.1	CLMP
scaffold_7	52651538	52671814	MSTRG.18989.1	CLNS1A
scaffold_7	57182050	57315314	CLPB_g19720.t1	CLPB
scaffold_7	1220489	1239521	CNDD3_g19220.t2	NCAPD3
scaffold_7	1254522	1290801	CNDD3_g19221.t1	NCAPD3
scaffold_7	33191321	33681723	CNTN5_g19562.t1	CNTN5
scaffold_7	33190498	33190706	MSTRG.18878.1	CNTN5
scaffold_7	55921190	55924657	COA4_g19704.t1	COA4
scaffold_7	55920975	55924657	MSTRG.19038.1	COA4
scaffold_7	23843274	23846769	COLC2_g19504.t1	COLCA2
scaffold_7	23851760	23853053	MSTRG.18786.2	COLCA1
scaffold_7	74627449	74627658	MSTRG.19221.1	COLGALT2
scaffold_7	71041860	71076470	COPB_g20063.t1	COPB1
scaffold_7	71040451	71077307	MSTRG.19201.1	COPB1
scaffold_7	23257190	23260096	CRYAB_g19492.t1	CRYAB
scaffold_7	17040309	17043335	CS044_g19424.t1	C19ORF44
scaffold_7	68005586	68034635	CTR9_g20043.t1	CTR9
scaffold_7	43691234	43703635	MSTRG.18929.1	CTSC
scaffold_7	26594395	26682917	CUL5_g19522.t1	CUL5
scaffold_7	26591092	26596924	MSTRG.18816.1	CUL5
scaffold_7	56114475	56114784	MSTRG.19040.1	CUPIN1
scaffold_7	37865867	37876079	CWC15_g19575.t1	CWC15
scaffold_7	37864584	37876079	MSTRG.18912.1	CWC15
scaffold_7	16963964	16974245	CXCR5_g19422.t1	CXCR5

scaffold_7	85164985	85362953	DCDC1_g20154.t1	DCDC1
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scaffold_7	8587248	8625309	MSTRG.18637.1	DCPS
scaffold_7	8587256	8625309	MSTRG.18637.2	DCPS
scaffold_7	8587257	8625309	MSTRG.18637.3	DCPS
scaffold_7	30929171	30959865	MSTRG.18840.1	DCUN1D5
scaffold_7	30929171	30945387	MSTRG.18840.2	DCUN1D5
scaffold_7	30929501	30959865	MSTRG.18840.3	DCUN1D5
scaffold_7	30157777	30158967	DDI1_g19538.t1	DDI1
scaffold_7	48105572	48115126	DDIAS_g19637.t1	DDIAS
scaffold_7	48105268	48123711	MSTRG.18969.1	DDIAS
scaffold_7	48105572	48123711	MSTRG.18969.2	DDIAS
scaffold_7	25840097	26119388	DDX10_g19515.t1	DDX10
scaffold_7	25839457	26119388	MSTRG.18808.1	DDX10
scaffold_7	8961117	8977487	DDX25_g19257.t1	DDX25
scaffold_7	17039691	17039930	GCP6_g19423.t1	DDX6
scaffold_7	17039538	17077208	MSTRG.18703.1	DDX6
scaffold_7	17039538	17077208	MSTRG.18703.2	DDX6
scaffold_7	17040309	17077208	MSTRG.18703.3	DDX6
scaffold_7	66213796	66302275	DEN2B_g20025.t1	DENND2B
scaffold_7	66562964	66656191	DEN5A_g20031.t1	DENND5A
scaffold_7	66656466	66656802	MSTRG.19164.1	DENND5A
scaffold_7	39107617	39195833	DEUP1_g19596.t1	DEUP1
scaffold_7	54325090	54354890	DGAT2_g19674.t1	DGAT2
scaffold_7	23111009	23120768	DHSD_g19484.t1	SDHD
scaffold_7	27226360	27226564	MSTRG.18827.1	DISC1
scaffold_7	23176980	23177586	MSTRG.18772.1	DIXDC1
scaffold_7	23176190	23176633	MSTRG.18773.1	DIXDC1
scaffold_7	85387417	85456009	DJC24_g20155.t1	DNAJC24
scaffold_7	68924743	68966400	DKK3_g20049.t1	DKK3
scaffold_7	23140314	23171765	MSTRG.18774.1	DLAT
scaffold_7	63404852	63477310	DNHD1_g19969.t1	DNHD1
scaffold_7	63404218	63477310	MSTRG.19129.1	DNHD1
scaffold_7	63450048	63457134	MSTRG.19129.10	DNHD1
scaffold_7	63471877	63485047	MSTRG.19129.11	DNHD1
scaffold_7	63472587	63477310	MSTRG.19129.12	DNHD1
scaffold_7	63404268	63477310	MSTRG.19129.2	DNHD1
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scaffold_7	63404268	63477310	MSTRG.19129.4	DNHD1
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scaffold_7	63404270	63477310	MSTRG.19129.6	DNHD1
scaffold_7	63405806	63425411	MSTRG.19129.8	DNHD1
scaffold_7	63448489	63449565	MSTRG.19129.9	DNHD1
scaffold_7	16788604	16796039	MSTRG.18693.1	DPAGT1
scaffold_7	55293678	55334787	DPOD3_g19692.t1	POLD3

scaffold_7	82011294	82013701	MSTRG.19262.4	DTWD1
scaffold_7	83736063	83746321	DYH1_g20145.t1	DNAH1
scaffold_7	30621923	30916589	DYHC2_g19539.t1	DYNC2H1
scaffold_7	75283866	75298518	E2F8_g20112.t1	E2F8
scaffold_7	75283364	75299921	MSTRG.19233.1	E2F8
scaffold_7	45281079	45312540	EED_g19622.t1	EED
scaffold_7	45280938	45306454	MSTRG.18945.1	EED
scaffold_7	9548549	9562980	MSTRG.18650.1	EI24
scaffold_7	65624090	65631456	EIF3F_g20016.t1	EIF3F
scaffold_7	86459799	86477882	EIF3M_g20166.t1	EIF3M
scaffold_7	68050890	68062385	MSTRG.19181.1	EIF4G2
scaffold_7	26936532	26965700	ELMD1_g19525.t1	ELMOD1
scaffold_7	85540007	85776986	ELP4_g20157.t1	ELP4
scaffold_7	53665036	53752026	EMSY_g19670.t1	EMSY
scaffold_7	53810084	53810716	EMSY_g19670.t3	EMSY
scaffold_7	53662890	53754116	MSTRG.19004.1	EMSY
scaffold_7	53664341	53754116	MSTRG.19004.2	EMSY
scaffold_7	53664341	53754116	MSTRG.19004.3	EMSY
scaffold_7	37753301	37788221	ENDD1_g19573.t1	ENDOD1
scaffold_7	44708405	44708647	MSTRG.18938.1	EPB41L1
scaffold_7	6573539	6635153	ETS1_g19247.t1	ETS1
scaffold_7	57268166	57268552	MSTRG.19060.1	EXOG
scaffold_7	48263407	48264687	F181B_g19640.t1	FAM181B
scaffold_7	70419225	70462692	FACR1_g20060.t1	FAR1
scaffold_7	8661583	8707108	MSTRG.18641.1	FAM118B
scaffold_7	8662165	8707108	MSTRG.18641.2	FAM118B
scaffold_7	63172166	63189442	MSTRG.19115.3	FHIP1B
scaffold_7	63165323	63189442	MSTRG.19115.1	FAM160A2
scaffold_7	56167199	56356749	MSTRG.19043.1	FAM168A
scaffold_7	56167199	56356749	MSTRG.19043.2	FAM168A
scaffold_7	78163079	78164158	FANCF_g20124.t1	FANCF
scaffold_7	70418506	70479428	MSTRG.19197.1	FAR1
scaffold_7	70418942	70479428	MSTRG.19197.2	FAR1
scaffold_7	70419225	70462692	MSTRG.19197.3	FAR1
scaffold_7	40661722	40661926	MSTRG.18933.1	FBXO32
scaffold_7	56853930	56854865	MSTRG.19047.1	FCHSD2
scaffold_7	56600222	56853135	FCSD2_g19713.t1	FCHSD2
scaffold_7	24585291	24599364	MSTRG.18798.1	FDX1
scaffold_7	23270873	23274448	FDXA1_g19494.t1	FDXA1
scaffold_7	63165945	63179233	FHI1B_g19959.t1	FHI1B
scaffold_7	42530290	42568578	FOLH1_g19609.t1	FOLH1
scaffold_7	57389031	57391370	FOLR1_g19724.t1	FOLR1
scaffold_7	57368709	57372306	FOLR2_g19723.t1	FOLR2
scaffold_7	57367301	57385311	MSTRG.19063.1	FOLR2
scaffold_7	32386026	32386230	MSTRG.18859.1	FOXN2

scaffold_7	8647549	8654978	MSTRG.18638.1	FOXRED1
scaffold_7	8647549	8654978	MSTRG.18638.2	FOXRED1
scaffold_7	8647549	8654978	MSTRG.18638.3	FOXRED1
scaffold_7	8647559	8654978	MSTRG.18638.4	FOXRED1
scaffold_7	8647563	8654978	MSTRG.18638.5	FOXRED1
scaffold_7	84399634	84401579	FSHB_g20150.t1	FSHB
scaffold_7	56902369	56914910	MSTRG.19052.1	FSHR
scaffold_7	38223573	38224790	FUT4_g19580.t1	FUT4
scaffold_7	8648017	8654978	FXRD1_g19251.t1	FOXRED1
scaffold_7	17817167	17851590	MSTRG.18719.3	FXYD6
scaffold_7	44716704	44720627	FZD4_g19617.t1	FZD4
scaffold_7	44716372	44725395	MSTRG.18941.1	FZD4
scaffold_7	16865698	16870718	G6PT1_g19415.t1	G6PT1
scaffold_7	51947251	52116986	GAB2_g19646.t1	GAB2
scaffold_7	53799978	53800179	MSTRG.19008.1	GALM
scaffold_7	63212208	63221824	GASR_g19961.t1	GASR
scaffold_7	27489508	27751635	GCYA2_g19527.t1	GCYA2
scaffold_7	52934597	53046171	GDPD4_g19658.t1	GDPD4
scaffold_7	52933102	53046171	GDPD4_g19658.t2	GDPD4
scaffold_7	54614086	54654363	GDPD5_g19679.t1	GDPD5
scaffold_7	54661427	54669747	GDPD5_g19679.t2	GDPD5
scaffold_7	54654960	54655172	MSTRG.19017.1	GDPD5
scaffold_7	68267805	68604273	GLT18_g20046.t1	GLT18
scaffold_7	30483930	30484135	MSTRG.18834.1	GOLGA4
scaffold_7	38371329	38382016	GPR83_g19584.t1	GPR83
scaffold_7	38383796	38383996	MSTRG.18914.1	GPR83
scaffold_7	12783435	12976374	MSTRG.18663.3	GRAMD1B
scaffold_7	12783455	13017488	MSTRG.18663.4	GRAMD1B
scaffold_7	12783359	12952737	MSTRG.18663.1	GRAMD1B
scaffold_7	12783435	13017488	MSTRG.18663.2	GRAMD1B
scaffold_7	12788626	13017488	MSTRG.18663.5	GRAMD1B
scaffold_7	36692926	36717082	MSTRG.18904.1	GRAP2
scaffold_7	74684184	74719595	MSTRG.19224.1	GTF2H1
scaffold_7	13281884	13282440	MSTRG.18670.1	GTF2IRD2B
scaffold_7	27756923	27757164	MSTRG.18824.1	GUCY1A2
scaffold_7	63615391	63620433	GVIN1_g19976.t1	GVINP1
scaffold_7	63621411	63622625	GVIN1_g19977.t1	GVINP1
scaffold_7	63700588	63702915	GVIN1_g19978.t1	GVINP1
scaffold_7	53782653	53810716	EMSY_g19670.t2	GVQW3
scaffold_7	16788873	16794591	GPT_g19409.t1	H2AX
scaffold_7	16794592	16795227	H2AX_g19410.t1	H2AX
scaffold_7	60749989	60775254	HBE_g19863.t1	HBE1
scaffold_7	39020332	39082781	HECD2_g19595.t1	HECTD2
scaffold_7	16796634	16803642	HEM3_g19411.t1	HEM3
scaffold_7	63346639	63355166	HEMO_g19965.t1	ERVMER34-1

scaffold_7	45215569	45258578	HIKES_g19621.t1	HIKES
scaffold_7	16758837	16763603	HINFP_g19407.t1	HINFP
scaffold_7	16758269	16768838	MSTRG.18691.3	HINFP
scaffold_7	16761718	16768838	MSTRG.18691.5	HINFP
scaffold_7	16757225	16768838	MSTRG.18691.1	HINFP
scaffold_7	16757633	16761548	MSTRG.18691.2	HINFP
scaffold_7	57296443	57296649	MSTRG.19061.1	HIPK4
scaffold_7	57822415	57845526	MSTRG.19073.2	HK2
scaffold_7	57822432	57845526	MSTRG.19073.4	HK2
scaffold_7	78761200	78762040	MSTRG.19240.1	HNRNPDL
scaffold_7	79691159	79691393	MSTRG.19252.1	HOXC8
scaffold_7	38576118	38663668	HPHL1_g19587.t1	HPHL1
scaffold_7	74638538	74679264	HPS5_g20097.t1	HPS5
scaffold_7	74635421	74683616	MSTRG.19223.1	HPS5
scaffold_7	74635712	74684067	MSTRG.19223.2	HPS5
scaffold_7	74637364	74684067	MSTRG.19223.4	HPS5
scaffold_7	74637364	74684067	MSTRG.19223.3	HPS5
scaffold_7	13272968	13276926	HSP7C_g19376.t1	HSPA8
scaffold_7	76293718	76308054	HTAI2_g20116.t1	HTAI2
scaffold_7	21343328	21345900	MSTRG.18759.2	HTR3A
scaffold_7	8981281	8982208	HYLS1_g19258.t1	HYLS1
scaffold_7	16823608	16834685	HYOU1_g19413.t1	HYOU1
scaffold_7	16822496	16835393	MSTRG.18697.1	HYOU1
scaffold_7	16822496	16835393	MSTRG.18697.2	HYOU1
scaffold_7	8978984	8993912	MSTRG.18644.1	HYSF1
scaffold_7	8980030	8989380	MSTRG.18645.1	HYSF1
scaffold_7	8980315	8989380	MSTRG.18645.2	HYSF1
scaffold_7	17703275	17714143	I10R1_g19442.t1	IL10RA
scaffold_7	57546874	57548875	I18BP_g19728.t1	IL18BP
scaffold_7	52651600	52668530	ICLN_g19655.t1	ICLN
scaffold_7	68051637	68062385	IF4G2_g20044.t1	EIF4G2
scaffold_7	17221577	17242871	IFT46_g19428.t1	IFT46
scaffold_7	74992949	74995210	IGFN1_g20104.t1	IGFN1
scaffold_7	63497979	63503988	ILK_g19971.t1	ILK
scaffold_7	63497979	63503988	MSTRG.19126.2	ILK
scaffold_7	63497439	63503988	MSTRG.19126.1	ILK
scaffold_7	85457315	85539945	MSTRG.19282.1	IMMP1L
scaffold_7	85457548	85539945	MSTRG.19282.2	IMMP1L
scaffold_7	85457642	85539945	IMP1L_g20156.t1	IMP1L
scaffold_7	57351404	57366666	MSTRG.19062.1	INPPL1
scaffold_7	57351874	57361621	MSTRG.19062.2	INPPL1
scaffold_7	71768006	71900271	INSC_g20073.t1	INSC
scaffold_7	52313824	52396653	INT4_g19653.t1	INT4
scaffold_7	52389482	52396376	MSTRG.18986.4	INTS4
scaffold_7	66762835	66808163	IPO7_g20033.t1	IPO7

scaffold_7	66808383	66810203	MSTRG.19169.1	IPO7
scaffold_7	37848717	37848949	MSTRG.18910.1	IQCK
scaffold_7	67875073	67919466	IRAG1_g20042.t1	IRAG1
scaffold_7	45784402	45793968	MSTRG.18951.1	IRF2BPL
scaffold_7	45784402	45793968	MSTRG.18951.2	IRF2BPL
scaffold_7	45784402	45793968	MSTRG.18951.3	IRF2BPL
scaffold_7	45784498	45793968	MSTRG.18951.4	IRF2BPL
scaffold_7	1293902	1294425	CQ100_g19222.t1	JAM3
scaffold_7	1294426	1362309	JAM3_g19223.t1	JAM3
scaffold_7	36577509	36579083	JERKL_g19566.t1	JRKL
scaffold_7	13355295	13408938	JHY_g19378.t1	JHY
scaffold_7	36576486	36576821	MSTRG.18897.1	JRKL
scaffold_7	36575597	36575814	MSTRG.18899.1	JRKL
scaffold_7	38430020	38432078	JUNO_g19585.t1	JUNO
scaffold_7	28324623	28330607	KBTB3_g19530.t1	KBTBD3
scaffold_7	30962894	30963122	MSTRG.18839.1	KBTBD12
scaffold_7	52299612	52305478	KCD14_g19652.t1	KCD14
scaffold_7	52175506	52178507	KCD21_g19648.t1	KCTD21
scaffold_7	73777618	73778790	KCJ11_g20081.t1	KCNJ11
scaffold_7	84221392	84223311	KCNA4_g20147.t1	KCNA4
scaffold_7	84221392	84223359	KCNA4_g20147.t3	KCNA4
scaffold_7	6195492	6221445	KCNJ5_g19242.t1	KCNJ5
scaffold_7	26255728	26276634	MSTRG.18811.1	KDELC2
scaffold_7	63679139	63679356	MSTRG.19135.1	KDM5C
scaffold_7	82578119	82658617	KI18A_g20141.t1	KIF18A
scaffold_7	82577464	82667982	MSTRG.19266.1	KIF18A
scaffold_7	8365639	8532644	KIRR3_g19248.t1	KIRREL3
scaffold_7	31511780	31513242	KLOTB_g19550.t1	KLOTB
scaffold_7	17264792	17341716	KMT2A_g19431.t1	KMT2A
scaffold_7	17260137	17341716	MSTRG.18714.1	KMT2A
scaffold_7	17293663	17300221	MSTRG.18714.3	KMT2A
scaffold_7	74750117	74799864	LDHA_g20099.t2	LDHA
scaffold_7	74735186	74745054	MSTRG.19222.1	LDHA
scaffold_7	74796820	74862221	MSTRG.19226.1	LDHC
scaffold_7	74797786	74851267	MSTRG.19226.2	LDHC
scaffold_7	74797895	74851267	MSTRG.19226.3	LDHC
scaffold_7	74799634	74862221	MSTRG.19226.4	LDHC
scaffold_7	74799810	74862221	MSTRG.19226.5	LDHC
scaffold_7	82018393	82112845	LGR4_g20139.t1	LGR4
scaffold_7	82016633	82113238	MSTRG.19264.1	LGR4
scaffold_7	82131469	82137883	LIN7C_g20140.t1	LIN7C
scaffold_7	82128183	82137883	MSTRG.19265.1	LIN7C
scaffold_7	82128193	82137883	MSTRG.19265.2	LIN7C
scaffold_7	82131311	82134273	MSTRG.19265.3	LIN7C
scaffold_7	64924305	65032789	LIPB2_g19989.t1	LIPB2

scaffold_7	29213401	29230320	CASPD_g19534.t1	LOC101390652
scaffold_7	60867298	60871147	MSTRG.19105.1	LOC101401854
scaffold_7	53565900	53572355	LRC32_g19669.t1	LRRC32
scaffold_7	53565816	53572355	LRC32_g19669.t2	LRRC32
scaffold_7	57464299	57480998	MSTRG.19067.1	LRRC51
scaffold_7	57465529	57480998	MSTRG.19067.2	LRRC51
scaffold_7	57465689	57480998	MSTRG.19067.3	LRRC51
scaffold_7	77898178	77900642	LRRK1_g20122.t1	LRRK1
scaffold_7	57459280	57464296	LTOR1_g19725.t1	LAMTOR1
scaffold_7	80120061	80120571	MSTRG.19261.1	LUZP2
scaffold_7	86079162	86089872	MAGL2_g20163.t1	MAGEL2
scaffold_7	36615700	36949616	MAML2_g19568.t1	MAML2
scaffold_7	36614384	36623430	MSTRG.18901.1	MAML2
scaffold_7	36614384	36717075	MSTRG.18901.2	MAML2
scaffold_7	44945914	45127864	MAON_g19618.t1	ME3
scaffold_7	54433386	54515101	MAP6_g19676.t1	MAP6
scaffold_7	54515180	54515860	MAP6_g19677.t1	MAP6
scaffold_7	16611012	16618860	MSTRG.18687.1	MCAM
scaffold_7	38811648	38833558	MED17_g19591.t1	MED17
scaffold_7	38810424	38833558	MSTRG.18922.1	MED17
scaffold_7	82811224	82857755	MET15_g20143.t1	METTL15
scaffold_7	82670149	82857755	MSTRG.19269.1	METTL15
scaffold_7	76431551	76431758	MSTRG.19247.1	METTL25
scaffold_7	16587174	16588311	MFRP_g19399.t2	MFRP
scaffold_7	26220085	26245890	MGT5A_g19516.t1	MGT5A
scaffold_7	69077910	69251031	MICA2_g20051.t1	MICA2
scaffold_7	69252103	69254449	BMP2K_g20052.t1	MICAL2
scaffold_7	69031404	69251031	MSTRG.19187.2	MICAL2
scaffold_7	69035481	69171656	MSTRG.19187.3	MICAL2
scaffold_7	69037019	69092570	MSTRG.19187.4	MICAL2
scaffold_7	31160344	31168559	MMP1_g19544.t1	MMP1
scaffold_7	31041153	31051891	MMP13_g19541.t1	MMP13
scaffold_7	31319601	31365687	MMP20_g19547.t1	MMP20
scaffold_7	84427836	84428048	MSTRG.19271.1	MPLKIP
scaffold_7	84559711	84720308	MPPD2_g20152.t1	MPPD2
scaffold_7	17480400	17501014	MPZL3_g19439.t1	MPZL3
scaffold_7	38288081	38356325	MSTRG.18916.2	MRE11
scaffold_7	38289034	38354364	MRE11_g19583.t1	MRE11
scaffold_7	38288076	38356325	MSTRG.18916.1	MRE11
scaffold_7	75119592	75124742	MRGX3_g20108.t2	MRGX3
scaffold_7	10213342	10256346	MSTRG.18657.1	MSANTD2
scaffold_7	10213936	10238784	MSTRG.18657.3	MSANTD2
scaffold_7	28360496	28375311	MSTRG.18832.1	MSANTD4
scaffold_7	10213701	10244748	MSD2_g19278.t1	MSD2
scaffold_7	28371859	28374653	MSD4_g19531.t1	MSANTD4

scaffold_7	36981746	37096179	MTMR2_g19569.t1	MTMR2
scaffold_7	36981746	37096179	MSTRG.18900.1	MTMR2
scaffold_7	48189258	48189461	MTMR5_g19639.t1	MTMR5
scaffold_7	81364967	81369789	MUC15_g20133.t1	MUC15
scaffold_7	81364967	81370101	MUC15_g20133.t2	MUC15
scaffold_7	55926929	55927129	MSTRG.19035.1	MYO15A
scaffold_7	53048359	53054950	MSTRG.18992.1	MYO7A
scaffold_7	53067679	53131848	MYO7A_g19660.t1	MYO7A
scaffold_7	53047340	53047542	MSTRG.18991.1	MYO7A
scaffold_7	53049168	53051650	MSTRG.18992.2	MYO7A
scaffold_7	53055955	53059556	MSTRG.18993.1	MYO7A
scaffold_7	53060384	53100656	MSTRG.18994.1	MYO7A
scaffold_7	66236634	66265841	MSTRG.19159.4	MYPN
scaffold_7	58450393	58453397	MSTRG.19078.1	N4BP2
scaffold_7	45299770	45299973	MSTRG.18947.1	NAALADL2
scaffold_7	64469249	64500253	NAL14_g19985.t2	NAL14
scaffold_7	41956431	41992535	NALD2_g19606.t1	NALD2
scaffold_7	57119618	57141951	NAR2B_g19719.t1	NAR2B
scaffold_7	51822823	51928439	MSTRG.18975.2	NARS2
scaffold_7	51914000	51914307	MSTRG.18975.4	NARS2
scaffold_7	75771554	76080295	NAV2_g20113.t1	NAV2
scaffold_7	65036627	65045049	NB5R2_g19990.t1	CYB5R2
scaffold_7	21978600	21978971	MSTRG.18763.1	NCAM1
scaffold_7	21979466	22019460	MSTRG.18765.1	NCAM1
scaffold_7	21996278	22040764	MSTRG.18765.3	NCAM1
scaffold_7	21980791	22045753	NCAM1_g19480.t1	NCAM1
scaffold_7	1219909	1290801	MSTRG.18608.1	NCAPD3
scaffold_7	73757413	73771367	MSTRG.19213.1	NCR3LG1
scaffold_7	73757920	73770596	MSTRG.19213.2	NCR3LG1
scaffold_7	73757942	73770596	MSTRG.19213.3	NCR3LG1
scaffold_7	52259289	52267192	NDUC2_g19650.t1	NDUC2
scaffold_7	76564054	77319531	NELL1_g20119.t1	NELL1
scaffold_7	76640585	77319531	MSTRG.19238.2	NELL1
scaffold_7	54995337	55012629	MSTRG.19021.1	NEU3
scaffold_7	55023174	55047661	NEUR3_g19688.t2	NEU3
scaffold_7	5259020	5296721	MSTRG.18623.1	NFRKB
scaffold_7	5259022	5296721	MSTRG.18623.2	NFRKB
scaffold_7	5261845	5295756	NFRKB_g19237.t1	NFRKB
scaffold_7	5261770	5295756	NFRKB_g19237.t2	NFRKB
scaffold_7	82669959	82670501	NIPBL_g20142.t1	NIPBL
scaffold_7	16723750	16735242	MSTRG.18690.2	NLRX1
scaffold_7	16724386	16733370	NLRX1_g19405.t1	NLRX1
scaffold_7	16723750	16735242	MSTRG.18690.1	NLRX1
scaffold_7	21083581	21083795	MSTRG.18749.1	NNMT
scaffold_7	21050039	21065059	NNMT_g19466.t1	NNMT

scaffold_7	37955865	37959817	AMOL1_g19577.t1	AMOL1_g19577.t1
scaffold_7	38844039	38858008	CK054_g19592.t1	CK054_g19592.t1
scaffold_7	23178128	23236794	DIXC1_g19489.t1	DIXC1_g19489.t1
scaffold_7	34203414	34204250	FV1_g19563.t1	FV1_g19563.t1
scaffold_7	5039182	5120361	MSTRG.18621.1	MSTRG.18621.1
scaffold_7	8234739	8234953	MSTRG.18634.1	MSTRG.18634.1
scaffold_7	13200603	13200810	MSTRG.18667.1	MSTRG.18667.1
scaffold_7	13272130	13276926	MSTRG.18669.1	MSTRG.18669.1
scaffold_7	15896534	15896760	MSTRG.18686.1	MSTRG.18686.1
scaffold_7	17107668	17186476	MSTRG.18708.1	MSTRG.18708.1
scaffold_7	17107857	17188302	MSTRG.18708.3	MSTRG.18708.3
scaffold_7	18335676	18358226	MSTRG.18722.1	MSTRG.18722.1
scaffold_7	20163599	20163813	MSTRG.18739.1	MSTRG.18739.1
scaffold_7	21335868	21343065	MSTRG.18758.1	MSTRG.18758.1
scaffold_7	21447906	21477713	MSTRG.18760.2	MSTRG.18760.2
scaffold_7	22070417	22105222	MSTRG.18767.2	MSTRG.18767.2
scaffold_7	24581798	24582143	MSTRG.18795.1	MSTRG.18795.1
scaffold_7	24699437	24768108	MSTRG.18802.1	MSTRG.18802.1
scaffold_7	26632147	26682917	MSTRG.18816.3	MSTRG.18816.3
scaffold_7	30095562	30095786	MSTRG.18836.1	MSTRG.18836.1
scaffold_7	34697419	34700076	MSTRG.18893.1	MSTRG.18893.1
scaffold_7	36264139	36264347	MSTRG.18896.1	MSTRG.18896.1
scaffold_7	37757247	37757465	MSTRG.18909.1	MSTRG.18909.1
scaffold_7	38538147	38568867	MSTRG.18918.2	MSTRG.18918.2
scaffold_7	39300225	39355627	MSTRG.18931.2	MSTRG.18931.2
scaffold_7	43775393	43775607	MSTRG.18937.1	MSTRG.18937.1
scaffold_7	45435242	45435451	MSTRG.18944.1	MSTRG.18944.1
scaffold_7	45688906	45762707	MSTRG.18949.1	MSTRG.18949.1
scaffold_7	46163323	46171275	MSTRG.18953.2	MSTRG.18953.2
scaffold_7	46309176	46309398	MSTRG.18955.1	MSTRG.18955.1
scaffold_7	46363471	46363686	MSTRG.18956.1	MSTRG.18956.1
scaffold_7	47850517	47850768	MSTRG.18957.1	MSTRG.18957.1
scaffold_7	47856166	47856444	MSTRG.18960.1	MSTRG.18960.1
scaffold_7	47875413	47875723	MSTRG.18961.1	MSTRG.18961.1
scaffold_7	53573289	53573495	MSTRG.18996.1	MSTRG.18996.1
scaffold_7	56925514	56986512	MSTRG.19053.1	MSTRG.19053.1
scaffold_7	56951021	56986512	MSTRG.19053.4	MSTRG.19053.4
scaffold_7	57822415	57845526	MSTRG.19073.3	MSTRG.19073.3
scaffold_7	58756618	58762497	MSTRG.19075.3	MSTRG.19075.3
scaffold_7	60717248	60731350	MSTRG.19095.1	MSTRG.19095.1
scaffold_7	63245156	63245381	MSTRG.19109.1	MSTRG.19109.1
scaffold_7	63481578	63485047	MSTRG.19129.13	MSTRG.19129.13
scaffold_7	64863627	64863839	MSTRG.19137.1	MSTRG.19137.1
scaffold_7	66038294	66038507	MSTRG.19150.1	MSTRG.19150.1
scaffold_7	66106454	66106707	MSTRG.19152.1	MSTRG.19152.1

scaffold_7	66360204	66360430	MSTRG.19153.1	MSTRG.19153.1
scaffold_7	67085036	67599609	MSTRG.19176.3	MSTRG.19176.3
scaffold_7	67765731	67803731	MSTRG.19177.2	MSTRG.19177.2
scaffold_7	68924138	68967115	MSTRG.19184.1	MSTRG.19184.1
scaffold_7	71158329	71158556	MSTRG.19202.1	MSTRG.19202.1
scaffold_7	72773545	72773769	MSTRG.19206.1	MSTRG.19206.1
scaffold_7	79401628	79401838	MSTRG.19249.1	MSTRG.19249.1
scaffold_7	80022229	80022457	MSTRG.19258.1	MSTRG.19258.1
scaffold_7	82113644	82118502	MSTRG.19263.1	MSTRG.19263.1
scaffold_7	76163451	76204364	PAL4H_g20115.t1	PAL4H_g20115.t1
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scaffold_7	10020959	10109207	MSTRG.18653.1	NOTHING
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scaffold_7	81994264	82013701	MSTRG.19262.3	NOTHING
scaffold_7	82859919	82860181	MSTRG.19267.1	NOTHING

scaffold_7	82844090	82844310	MSTRG.19270.1	NOTHING
scaffold_7	84455771	84473397	MSTRG.19273.1	NOTHING
scaffold_7	84559317	84559556	MSTRG.19275.1	NOTHING
scaffold_7	84581840	84582046	MSTRG.19277.1	NOTHING
scaffold_7	85387417	85459983	MSTRG.19279.1	NOTHING
scaffold_7	85411580	85411803	MSTRG.19280.1	NOTHING
scaffold_7	85426343	85431228	MSTRG.19281.1	NOTHING
scaffold_7	85690717	85690939	MSTRG.19284.1	NOTHING
scaffold_7	86063835	86064121	MSTRG.19285.1	NOTHING
scaffold_7	86380333	86380597	MSTRG.19288.1	NOTHING
scaffold_7	86457517	86457784	MSTRG.19289.1	NOTHING
scaffold_7	86478169	86478558	MSTRG.19292.1	NOTHING
scaffold_7	42710655	42847825	NOX4_g19610.t1	NOX4
scaffold_7	26510943	26537223	MSTRG.18815.2	NPAT
scaffold_7	26514147	26534184	MSTRG.18815.3	NPAT
scaffold_7	26487332	26536630	NPAT_g19520.t1	NPAT
scaffold_7	73758175	73769053	NR3L1_g20080.t1	NCR3LG1
scaffold_7	66439890	66440157	MSTRG.19161.1	NRIP3
scaffold_7	66441674	66457129	NRIP3_g20029.t1	NRIP3
scaffold_7	73720624	73743339	NUCB2_g20079.t1	NUCB2
scaffold_7	73705242	73752312	MSTRG.19211.1	NUCB2
scaffold_7	57480986	57546159	MSTRG.19068.1	NUMA1
scaffold_7	57481039	57546159	MSTRG.19068.2	NUMA1
scaffold_7	57509265	57546159	MSTRG.19068.3	NUMA1
scaffold_7	57510161	57546159	MSTRG.19068.4	NUMA1
scaffold_7	57532709	57536868	MSTRG.19068.6	NUMA1
scaffold_7	57515173	57546159	NUMA1_g19727.t1	NUMA1
scaffold_7	57768874	57822101	MSTRG.19072.4	NUP98
scaffold_7	57768874	57822101	MSTRG.19072.5	NUP98
scaffold_7	57710940	57822101	MSTRG.19072.1	NUP98
scaffold_7	57768858	57822101	MSTRG.19072.3	NUP98
scaffold_7	75973616	76083532	MSTRG.19235.2	NUPR1
scaffold_7	20856614	20877781	NXPE4_g19462.t2	NXPE4
scaffold_7	60794196	60795131	O51B2_g19865.t1	O51B2
scaffold_7	60811875	60812807	O51B2_g19866.t1	O51B2
scaffold_7	60781273	60782208	O51B4_g19864.t1	O51B4
scaffold_7	60819736	60820710	O51B5_g19867.t1	OR51B5
scaffold_7	60978315	60979253	O51B5_g19874.t1	OR51B5
scaffold_7	60843968	60844906	O51B6_g19868.t1	OR51B6
scaffold_7	60908431	60908814	O51I1_g19871.t1	OR51I1
scaffold_7	60936460	60937299	O51I2_g19872.t1	OR51I2
scaffold_7	60936361	60937299	O51I2_g19872.t2	OR51I2
scaffold_7	60958972	60959880	O51I2_g19873.t1	OR51I2
scaffold_7	60886443	60887435	O51M1_g19870.t1	O51M1
scaffold_7	60868336	60869322	O51Q1_g19869.t1	O51Q1

scaffold_7	61005370	61006314	O51Q1_g19875.t1	O51Q1
scaffold_7	60596327	60597268	O51V1_g19853.t1	OR51V1
scaffold_7	60698774	60699754	O51V1_g19860.t1	OR51V1
scaffold_7	60568609	60569550	O52A1_g19852.t1	O52A1
scaffold_7	60633333	60634271	O52A1_g19856.t1	O52A1
scaffold_7	60649040	60649996	O52A5_g19858.t1	OR52A5
scaffold_7	60604058	60605008	O52A5_g19854.t1	O52A5
scaffold_7	60615624	60616574	O52A5_g19855.t1	O52A5
scaffold_7	63123589	63124584	O52B2_g19956.t4	O52B2
scaffold_7	58331543	58332493	O52B4_g19754.t1	O52B4
scaffold_7	58752935	58753936	O52I1_g19768.t1	OR52I1
scaffold_7	58803478	58804266	O52I2_g19770.t1	O52I2
scaffold_7	58803289	58804266	O52I2_g19770.t2	O52I2
scaffold_7	60384036	60384569	O52P1_g19849.t1	OR52P1
scaffold_7	60682518	60683438	O52Z1_g19859.t1	O52Z1
scaffold_7	62235606	62236565	O56B2_g19916.t1	OR56B2P
scaffold_7	15738872	15756251	OAF_g19392.t1	OAF
scaffold_7	15738163	15756684	MSTRG.18683.1	OAF
scaffold_7	23851393	23855002	OBAS1_g19505.t1	OBAS1
scaffold_7	23141901	23171765	ODP2_g19488.t1	DLAT
scaffold_7	64888604	64890963	OLFL1_g19988.t1	OLFML1
scaffold_7	64866636	64890963	MSTRG.19138.1	OLFML1
scaffold_7	60802986	60809754	MSTRG.19098.1	OR51F5D
scaffold_7	63050472	63051437	OL688_g19952.t1	OR56B46
scaffold_7	75928765	75928971	MSTRG.19236.1	OR6M1
scaffold_7	10509094	10510026	OR8BC_g19286.t1	OR8B12
scaffold_7	10715124	10716059	OR8BC_g19294.t1	OR8B12
scaffold_7	11890351	11891286	OR8G5_g19341.t1	OR8G5
scaffold_7	56515081	56516214	P2RY2_g19712.t1	P2RY2
scaffold_7	55552481	55588521	P4HA3_g19696.t1	P4HA3
scaffold_7	18529624	18529986	PA1B2_g19452.t2	PA1B2
scaffold_7	55870925	55920842	PAAF1_g19703.t1	PAAF1
scaffold_7	55869418	55920842	MSTRG.19037.1	PAAF1
scaffold_7	25044887	25046830	PABP4_g19513.t1	PABP4
scaffold_7	18456020	18458842	MSTRG.18726.1	PAFAH1B2
scaffold_7	18458110	18482967	MSTRG.18727.1	PAFAH1B2
scaffold_7	52853380	52910845	PAK1_g19657.t1	PAK1
scaffold_7	52853314	52910845	PAK1_g19657.t2	PAK1
scaffold_7	52837386	52911587	MSTRG.18990.3	PAK1
scaffold_7	38522284	38522749	MSTRG.18921.1	PANX1
scaffold_7	38524582	38568867	PANX1_g19586.t1	PANX1
scaffold_7	10416232	10417161	PANX3_g19283.t2	PANX3
scaffold_7	70386184	70413280	MSTRG.19193.1	PARVA
scaffold_7	69265054	69412304	PARVA_g20053.t1	PARVA
scaffold_7	63514471	63534580	PCD16_g19974.t1	DCHS1

scaffold_7	47904135	47930451	MSTRG.18965.1	PCF11
scaffold_7	47851278	47896226	PCF11_g19635.t1	PCF11
scaffold_7	47906662	47930451	PCF11_g19635.t2	PCF11
scaffold_7	48125163	48183427	PCP_g19638.t1	PRCP
scaffold_7	18401160	18424869	PCSK7_g19450.t1	PCSK7
scaffold_7	18398961	18415908	MSTRG.18724.1	PCSK7
scaffold_7	18399149	18424869	MSTRG.18724.3	PCSK7
scaffold_7	56997414	57087918	PDE2A_g19718.t1	PDE2A
scaffold_7	71197167	71375948	PDE3B_g20066.t1	PDE3B
scaffold_7	30043517	30266569	PDGFD_g19537.t1	PDGFD
scaffold_7	30266812	30269033	MSTRG.18838.1	PDGFD
scaffold_7	20013006	20013230	MSTRG.18738.1	PEAK1
scaffold_7	21676719	21677087	PFD1_g19476.t1	PFD1
scaffold_7	57822372	57845526	PGAP2_g19735.t1	PGAP2
scaffold_7	55472639	55529201	PGM2L_g19695.t1	PGM2L1
scaffold_7	55529920	55530424	MSTRG.19031.1	PGM2L1
scaffold_7	55533073	55533277	MSTRG.19032.1	PGM2L1
scaffold_7	17141601	17186476	PHLB1_g19427.t1	PHLDB1
scaffold_7	17147263	17163201	MSTRG.18708.10	PHLDB1
scaffold_7	17153712	17175739	MSTRG.18708.11	PHLDB1
scaffold_7	17173715	17175739	MSTRG.18708.12	PHLDB1
scaffold_7	45465644	45571066	MSTRG.18948.1	PICALM
scaffold_7	45465702	45571066	MSTRG.18948.2	PICALM
scaffold_7	45465964	45571066	MSTRG.18948.3	PICALM
scaffold_7	31515558	31515778	MSTRG.18843.1	PIGL
scaffold_7	23133544	23137468	PIHD2_g19487.t1	PIH1D2
scaffold_7	73538384	73645471	MSTRG.19212.2	PIK3C2A
scaffold_7	73538183	73645471	MSTRG.19212.1	PIK3C2A
scaffold_7	9440218	9441764	PIP1_g19265.t1	ACD
scaffold_7	38165189	38201966	PIWL4_g19579.t1	PIWL4
scaffold_7	9646304	9722021	PKNX2_g19271.t1	PKNOX2
scaffold_7	47890944	47891416	MSTRG.18962.1	PLCD1
scaffold_7	73288235	73427799	MSTRG.19210.1	PLEKHA7
scaffold_7	73288235	73385342	MSTRG.19210.2	PLEKHA7
scaffold_7	73288494	73385342	MSTRG.19210.3	PLEKHA7
scaffold_7	73288494	73502588	MSTRG.19210.4	PLEKHA7
scaffold_7	73288501	73385342	MSTRG.19210.5	PLEKHA7
scaffold_7	73297519	73386619	MSTRG.19210.7	PLEKHA7
scaffold_7	56117830	56133966	MSTRG.19042.2	PLEKHB1
scaffold_7	56117733	56133966	MSTRG.19042.1	PLEKHB1
scaffold_7	26283589	26352460	PLGT3_g19517.t1	POGLUT3
scaffold_7	26255745	26276634	PLGT3_g19517.t2	POGLUT3
scaffold_7	15641790	15644154	PO2F3_g19391.t1	PO2F3
scaffold_7	15641790	15644238	PO2F3_g19391.t3	PO2F3
scaffold_7	15654004	15722692	PO2F3_g19391.t4	PO2F3

scaffold_7	31457128	31461597	PORIM_g19549.t1	PORIM
scaffold_7	64950279	65029830	MSTRG.19141.2	PPFIBP2
scaffold_7	55600426	55675187	MSTRG.19033.1	PPME1
scaffold_7	55601620	55653954	PPME1_g19697.t1	PPME1
scaffold_7	23415140	23539957	MSTRG.18787.1	PPP2R1B
scaffold_7	48123785	48183427	MSTRG.18970.3	PRCP
scaffold_7	48123785	48183427	MSTRG.18970.1	PRCP
scaffold_7	48123785	48183427	MSTRG.18970.2	PRCP
scaffold_7	48123840	48183427	MSTRG.18970.4	PRCP
scaffold_7	5194078	5255429	PRD10_g19236.t1	PRDM10
scaffold_7	5161133	5257919	MSTRG.18622.1	PRDM10
scaffold_7	32552680	32628252	PRGR_g19560.t1	PGR
scaffold_7	53811728	53832925	P52K_g19671.t1	THAP12
scaffold_7	53811456	53832925	MSTRG.19005.4	PRKRIR
scaffold_7	76440053	76440603	MSTRG.19248.1	PRMT3
scaffold_7	76409273	76409526	MSTRG.19246.1	PRMT8
scaffold_7	44813782	44822807	MSTRG.18940.1	PRSS23
scaffold_7	71083411	71094686	PSA1_g20064.t1	PSA1
scaffold_7	22967339	22973641	PTPS_g19481.t1	PTPS
scaffold_7	22966496	22973641	MSTRG.18764.1	PTS
scaffold_7	22966496	22973641	MSTRG.18764.2	PTS
scaffold_7	8985789	8989380	PUS3_g19260.t1	PUS3
scaffold_7	16233004	16300063	MSTRG.18682.1	PVRL1
scaffold_7	86720356	86804448	MSTRG.19294.2	QSER1
scaffold_7	86720505	86804448	MSTRG.19294.5	QSER1
scaffold_7	21062570	21062790	MSTRG.18748.1	QSER1
scaffold_7	86720356	86804448	MSTRG.19294.1	QSER1
scaffold_7	86720356	86804448	MSTRG.19294.3	QSER1
scaffold_7	86720505	86804448	MSTRG.19294.4	QSER1
scaffold_7	86720505	86804448	MSTRG.19294.6	QSER1
scaffold_7	47997855	48086680	MSTRG.18966.1	RAB30
scaffold_7	48063887	48079166	RAB30_g19636.t1	RAB30
scaffold_7	43800949	43857204	RAB38_g19614.t1	RAB38
scaffold_7	56020346	56107551	MSTRG.19041.1	RAB6A
scaffold_7	56020837	56107551	RAB6A_g19706.t1	RAB6A
scaffold_7	24716078	24786476	RADI_g19509.t1	RADI
scaffold_7	56878923	56887634	RASA3_g19715.t1	RASA3
scaffold_7	69850453	69851952	RASFA_g20055.t1	RASFA
scaffold_7	26709858	26733361	RB39A_g19523.t1	RB39A
scaffold_7	20969878	20970327	MSTRG.18744.1	RBM7
scaffold_7	20970496	20979963	MSTRG.18745.1	RBM7
scaffold_7	20970496	20979963	MSTRG.18745.2	RBM7
scaffold_7	20971100	20979963	RBM7_g19464.t1	RBM7
scaffold_7	86051861	86063143	RCN1_g20162.t1	RCN1
scaffold_7	56360550	56379981	MSTRG.19045.2	RELT

scaffold_7	56360144	56366798	MSTRG.19045.1	RELT
scaffold_7	20933404	20943942	MSTRG.18743.1	REXO2
scaffold_7	20934067	20943942	MSTRG.18743.2	REXO2
scaffold_7	24380950	24496887	RHG20_g19507.t1	RHG20
scaffold_7	32665671	32922012	RHG42_g19561.t1	ARHGAP42
scaffold_7	57845508	57858407	MSTRG.19074.1	RHOG
scaffold_7	57846213	57846856	RHOG_g19736.t1	RHOG
scaffold_7	57846213	57858407	RHOG_g19737.t1	RHOG
scaffold_7	65736764	65789053	MSTRG.19148.2	RIC3
scaffold_7	58064825	58098521	RIR1_g19740.t1	RRM1
scaffold_7	63572507	63573651	RM17_g19975.t1	MRPL17
scaffold_7	55932002	55988332	RM48_g19705.t1	RM48
scaffold_7	57552668	57638390	RN121_g19729.t1	RNF121
scaffold_7	67768572	67796257	RN141_g20040.t1	RN141
scaffold_7	55118513	55198264	RN169_g19690.t1	RNF169
scaffold_7	18355938	18398870	RN214_g19448.t1	RN214
scaffold_7	57546431	57638390	MSTRG.19069.1	RNF121
scaffold_7	57546701	57638390	MSTRG.19069.2	RNF121
scaffold_7	67764654	67803731	MSTRG.19177.1	RNF141
scaffold_7	18351093	18398870	MSTRG.18722.2	RNF214
scaffold_7	18355815	18358226	MSTRG.18722.3	RNF214
scaffold_7	16591520	16592821	RNF26_g19400.t1	RNF26
scaffold_7	58336820	58342659	RO52_g19755.t1	RO52
scaffold_7	10157807	10173534	ROBO3_g19276.t1	ROBO3
scaffold_7	66203543	66208255	MSTRG.19158.1	RPL27A
scaffold_7	66206508	66225314	MSTRG.19159.1	RPL27A
scaffold_7	54679390	54685388	MSTRG.19018.1	RPS3
scaffold_7	8707262	8716897	MSTRG.18642.3	RPUSD4
scaffold_7	8707258	8716897	MSTRG.18642.1	RPUSD4
scaffold_7	8707264	8716897	MSTRG.18642.4	RPUSD4
scaffold_7	70899131	70963691	RRAS2_g20062.t1	RRAS2
scaffold_7	63493763	63497189	RRP8_g19970.t1	RRP8
scaffold_7	63492679	63497189	MSTRG.19125.1	RRP8
scaffold_7	73530005	73533130	RS13_g20077.t1	RPS13
scaffold_7	86366289	86379965	RS16_g20165.t1	RS16
scaffold_7	2788893	2789270	RS25_g19227.t1	RS25
scaffold_7	16875163	16877031	RS25_g19417.t1	RS25
scaffold_7	54680030	54685388	RS3_g19680.t1	RPS3
scaffold_7	52472391	52627296	MSTRG.18988.2	RSF1
scaffold_7	52472365	52627296	RSF1_g19654.t1	RSF1
scaffold_7	8707260	8715602	RUSD4_g19254.t1	RPUSD4
scaffold_7	26781168	26833025	S35F2_g19524.t1	SLC35F2
scaffold_7	74482056	74485451	SAA_g20092.t1	SAA
scaffold_7	74622016	74625386	SAA2_g20096.t1	SAA2
scaffold_7	74468915	74478700	SAA4_g20091.t1	SAA4

scaffold_7	67072993	67599609	MSTRG.19176.1	SBF2
scaffold_7	79802053	79802267	MSTRG.19256.1	SBSPON
scaffold_7	81440379	81489848	SC5AC_g20134.t1	SLC5A12
scaffold_7	14765455	14785506	MSTRG.18676.1	SC5D
scaffold_7	14770898	14774943	SC5D_g19385.t1	SC5D
scaffold_7	18348317	18349249	MSTRG.18723.1	SCN8A
scaffold_7	66472119	66534629	SCUB2_g20030.t1	SCUB2
scaffold_7	66468616	66532862	MSTRG.19163.1	SCUBE2
scaffold_7	66468616	66532862	MSTRG.19163.2	SCUBE2
scaffold_7	66468720	66531499	MSTRG.19163.3	SCUBE2
scaffold_7	66468720	66531499	MSTRG.19163.4	SCUBE2
scaffold_7	74151848	74354672	MSTRG.19218.1	SERGEF
scaffold_7	54530214	54535163	SERPH_g19678.t1	SERPH
scaffold_7	54528590	54539227	MSTRG.19014.1	SERPINH1
scaffold_7	37640380	37703178	SESN3_g19572.t1	SESN3
scaffold_7	84473583	84494493	MSTRG.19274.1	SH2D7
scaffold_7	84473611	84494493	MSTRG.19274.2	SH2D7
scaffold_7	57352309	57365702	SHIP2_g19722.t1	SHIP2
scaffold_7	53065971	53067470	SHPS1_g19659.t1	SIRPA
scaffold_7	8543269	8585827	SIA4C_g19249.t1	SIA4C
scaffold_7	10320546	10357718	SIAE_g19281.t1	SIAE
scaffold_7	18433946	18448814	SIDT2_g19451.t2	SIDT2
scaffold_7	23422470	23539957	SIK2_g19497.t1	SIK2
scaffold_7	18530209	18768876	MSTRG.18730.2	SIK3
scaffold_7	18530211	18750781	MSTRG.18730.3	SIK3
scaffold_7	18655969	18669053	MSTRG.18730.4	SIK3
scaffold_7	26778465	26781165	MSTRG.18817.1	SLC35F2
scaffold_7	26778472	26781165	MSTRG.18817.2	SLC35F2
scaffold_7	26779896	26781165	MSTRG.18817.3	SLC35F2
scaffold_7	16864203	16870718	MSTRG.18698.1	SLC37A4
scaffold_7	16865119	16870718	MSTRG.18698.2	SLC37A4
scaffold_7	66043565	66043784	MSTRG.19151.1	SLC7A2
scaffold_7	65047285	65047510	MSTRG.19140.1	SLITRK2
scaffold_7	16861728	16861937	SMAP_g19414.t1	SMAP
scaffold_7	73259429	73272393	SMAP_g20075.t1	SMAP
scaffold_7	4345482	4351299	MSTRG.18614.1	SNX19
scaffold_7	54845311	54893652	SO2B1_g19683.t1	SLCO2B1
scaffold_7	14479319	14638361	SORL_g19384.t1	SORL
scaffold_7	72590715	73080759	SOX6_g20074.t1	SOX6
scaffold_7	73259245	73276417	MSTRG.19207.1	SOX6
scaffold_7	10309092	10319108	SP17_g19280.t1	SPA17
scaffold_7	10308909	10320313	MSTRG.18658.1	SPA17
scaffold_7	70640586	70890335	SPON1_g20061.t1	SPON1
scaffold_7	74934880	74953013	SPT2_g20102.t1	SPT2
scaffold_7	74931666	74952521	MSTRG.19227.1	SPTY2D1

scaffold_7	74931728	74953562	MSTRG.19227.2	SPTY2D1
scaffold_7	74151851	74152197	SRGEF_g20087.t1	SRGEF
scaffold_7	8655386	8660439	SRPRA_g19252.t1	SRPRA
scaffold_7	4991996	5024281	ST14_g19234.t1	ST14
scaffold_7	4981731	5024281	MSTRG.18620.1	ST14
scaffold_7	8542785	8578837	MSTRG.18630.2	ST3GAL4
scaffold_7	8542759	8578837	MSTRG.18630.1	ST3GAL4
scaffold_7	66231643	66265841	MSTRG.19159.3	ST5
scaffold_7	56897844	56923504	STA10_g19716.t1	STARD10
scaffold_7	56897314	56923504	MSTRG.19051.1	STARD10
scaffold_7	57870244	58063110	MSTRG.19071.2	STIM1
scaffold_7	57869761	58063110	MSTRG.19071.1	STIM1
scaffold_7	57870392	58063110	STIM1_g19739.t1	STIM1
scaffold_7	9517213	9546431	STT3A_g19268.t1	STT3A
scaffold_7	78323355	78330280	SVIP_g20126.t1	SVIP
scaffold_7	66981919	67049910	SWP70_g20036.t1	SWP70
scaffold_7	51822823	51928439	SYNM_g19645.t1	SYNM
scaffold_7	64667739	64848219	MSTRG.19133.1	SYT9
scaffold_7	64667739	64848219	SYT9_g19986.t1	SYT9
scaffold_7	45702454	45762707	SYTL2_g19625.t1	SYTL2
scaffold_7	63392622	63396012	T10B_g19968.t1	T10B
scaffold_7	45794074	45799538	T126B_g19628.t1	T126B
scaffold_7	45819065	45824810	T126B_g19628.t2	T126B
scaffold_7	63504017	63505593	MSTRG.19127.1	TAF10
scaffold_7	63504024	63505593	MSTRG.19127.2	TAF10
scaffold_7	63504056	63505593	TAF10_g19972.t1	TAF10
scaffold_7	38861486	38903745	MSTRG.18926.1	TAF1D
scaffold_7	38861570	38871514	MSTRG.18927.1	TAF1D
scaffold_7	38861570	38871514	MSTRG.18927.2	TAF1D
scaffold_7	38861570	38871514	MSTRG.18927.3	TAF1D
scaffold_7	38861570	38871514	MSTRG.18927.4	TAF1D
scaffold_7	38861577	38871232	MSTRG.18927.5	TAF1D
scaffold_7	18425156	18449303	MSTRG.18725.1	TAGLN
scaffold_7	14946065	14946428	MSTRG.18675.1	TBCEL
scaffold_7	14947694	14947973	MSTRG.18678.1	TBCEL
scaffold_7	14948930	15021294	MSTRG.18679.1	TBCEL
scaffold_7	10360524	10371262	MSTRG.18660.2	TBRG1
scaffold_7	10362013	10371262	TBRG1_g19282.t1	TBRG1
scaffold_7	10360345	10371262	MSTRG.18660.1	TBRG1
scaffold_7	69723024	69791712	TEAD1_g20054.t1	TEAD1
scaffold_7	69543431	69802909	MSTRG.19188.1	TEAD1
scaffold_7	69543431	69802909	MSTRG.19188.2	TEAD1
scaffold_7	69543457	69740309	MSTRG.19188.3	TEAD1
scaffold_7	69544215	69740309	MSTRG.19188.4	TEAD1
scaffold_7	51409784	51783551	TEN4_g19644.t1	TEN4

scaffold_7	74691883	74719595	TF2H1_g20098.t1	GTF2H1
scaffold_7	26559583	26581663	THIL_g19521.t1	ACAT1
scaffold_7	16529644	16531179	THY1_g19397.t1	THY1
scaffold_7	1191420	1197444	MSTRG.18606.1	THYN1
scaffold_7	1191624	1197444	THYN1_g19218.t1	THYN1
scaffold_7	6002121	6019908	MSTRG.18629.1	TIGD1
scaffold_7	23120909	23123141	TIM8B_g19485.t1	TIM8B
scaffold_7	63392557	63401591	MSTRG.19123.1	TIMM10B
scaffold_7	8629468	8643479	MSTRG.18631.1	TIRAP
scaffold_7	44396437	44649807	TM135_g19616.t1	TM135
scaffold_7	66679413	66714578	TM41B_g20032.t1	TMEM41B
scaffold_7	5312658	5318268	TM45B_g19238.t1	TM45B
scaffold_7	74987456	74990873	TM86A_g20103.t1	TMEM86A
scaffold_7	31457075	31513242	MSTRG.18844.2	TMEM123
scaffold_7	45791287	45801919	MSTRG.18952.1	TMEM126A
scaffold_7	15639222	15639557	MSTRG.18680.1	TMEM183A
scaffold_7	9953569	9972201	MSTRG.18651.1	TMEM218
scaffold_7	66676427	66714578	MSTRG.19165.1	TMEM41B
scaffold_7	66676933	66699078	MSTRG.19165.2	TMEM41B
scaffold_7	74991272	74991503	MSTRG.19231.1	TMEM86A
scaffold_7	86683076	86698236	TMG4_g20169.t1	TMG4
scaffold_7	17251752	17254849	TMM25_g19429.t1	TMEM25
scaffold_7	66418806	66431268	TMM9B_g20028.t1	TMM9B
scaffold_7	17797440	17851590	MSTRG.18719.1	TMPRSS13
scaffold_7	54812158	54813327	TPBGL_g19682.t1	TPBGL
scaffold_7	74311017	74354672	TPH1_g20088.t1	TPH1
scaffold_7	63507785	63513193	TPP1_g19973.t1	TPP1
scaffold_7	16872013	16874709	TPPC4_g19416.t1	TPPC4
scaffold_7	56362034	56379981	TR19L_g19710.t1	RELT
scaffold_7	16871758	16874709	MSTRG.18699.1	TRAPPC4
scaffold_7	17131356	17140091	TREA_g19426.t1	TREH
scaffold_7	17107857	17188302	MSTRG.18708.2	TREH
scaffold_7	61617203	61625758	TRI22_g19901.t1	TRIM22
scaffold_7	61378922	61390642	TRI34_g19898.t1	TRIM34
scaffold_7	61378634	61390642	TRI34_g19898.t2	TRIM34
scaffold_7	58809444	58814919	TRI68_g19771.t1	TRIM68
scaffold_7	58453864	58456871	MSTRG.19079.1	TRIM21
scaffold_7	63360971	63385233	MSTRG.19120.1	TRIM3
scaffold_7	63360976	63385233	MSTRG.19120.2	TRIM3
scaffold_7	63361387	63377340	TRIM3_g19966.t1	TRIM3
scaffold_7	45287320	45287526	MSTRG.18946.1	TRIM33
scaffold_7	61373443	61390642	MSTRG.19106.1	TRIM34
scaffold_7	61676975	61677204	MSTRG.19108.1	TRIM34
scaffold_7	61401294	61409362	TRIM5_g19899.t1	TRIM5
scaffold_7	61742590	61749719	TRIM5_g19902.t1	TRIM5

scaffold_7	61340787	61347497	TRIM6_g19897.t1	TRIM6
scaffold_7	66145682	66203521	MSTRG.19157.1	TRIM66
scaffold_7	66145684	66203521	MSTRG.19157.2	TRIM66
scaffold_7	66149637	66203521	MSTRG.19157.3	TRIM66
scaffold_7	58807364	58817634	MSTRG.19082.1	TRIM68
scaffold_7	58807577	58817634	MSTRG.19082.2	TRIM68
scaffold_7	57643614	57657111	TRPC2_g19730.t1	TRPC2
scaffold_7	57658095	57677567	TRPC2_g19730.t2	TRPC2
scaffold_7	32186803	32312091	TRPC6_g19558.t1	TRPC6
scaffold_7	74813451	74851267	TS101_g20100.t1	TS101
scaffold_7	74808979	74862221	MSTRG.19226.7	TSG101
scaffold_7	53435924	53437005	TSK_g19666.t1	TSKU
scaffold_7	53434625	53448684	MSTRG.18999.1	TSK
scaffold_7	21897430	21953156	TTC12_g19479.t1	TTC12
scaffold_7	17255280	17263278	MSTRG.18712.1	TTC36
scaffold_7	17255318	17259827	TTC36_g19430.t1	TTC36
scaffold_7	65712865	65739205	MSTRG.19147.1	TUB
scaffold_7	65734045	65789053	MSTRG.19148.1	TUB
scaffold_7	65712994	65735175	TUB_g20018.t1	TUB
scaffold_7	1471210	1517660	TUTLB_g19224.t1	TUTLB
scaffold_7	42875120	42965496	TYRO_g19611.t1	TYR
scaffold_7	17375475	17401611	UBE4A_g19434.t1	UBE4A
scaffold_7	17372283	17406684	MSTRG.18710.1	UBE4A
scaffold_7	16557682	16574264	UBP2_g19398.t1	USP2
scaffold_7	52124134	52155369	UBP35_g19647.t1	UBP35
scaffold_7	68800703	68918103	UBP47_g20048.t1	UBP47
scaffold_7	13465194	13596863	UBS3B_g19380.t1	UBS3B
scaffold_7	55832285	55839241	MSTRG.19036.2	UCP2
scaffold_7	55836053	55839241	UCP2_g19701.t1	UCP2
scaffold_7	74865455	74865852	MSTRG.19228.1	UEVLD
scaffold_7	74866154	74891828	MSTRG.19229.1	UEVLD
scaffold_7	74866650	74872040	MSTRG.19229.3	UEVLD
scaffold_7	74866522	74916347	UEVLD_g20101.t1	UEVLD
scaffold_7	10207157	10207487	MSTRG.18654.1	UFM1
scaffold_7	67065228	67065636	MSTRG.19171.1	UHRF2
scaffold_7	73875082	73921992	USH1C_g20083.t1	USH1C
scaffold_7	16566606	16575261	MSTRG.18685.2	USP2
scaffold_7	21478853	21506682	MSTRG.18760.5	USP28
scaffold_7	21478797	21506682	MSTRG.18760.4	USP28
scaffold_7	52122038	52162319	MSTRG.18979.2	USP35
scaffold_7	52123766	52133754	MSTRG.18979.3	USP35
scaffold_7	52121455	52162319	MSTRG.18979.1	USP35
scaffold_7	52153976	52154944	MSTRG.18979.5	USP35
scaffold_7	68901942	68918103	MSTRG.19183.2	USP47
scaffold_7	54020408	54306389	UVRAG_g19673.t1	UVRAG

scaffold_7	12084268	12107008	VMA5A_g19349.t1	VWA5A
scaffold_7	12199489	12200364	VMA5A_g19353.t1	VWA5A
scaffold_7	1199878	1219401	VP26B_g19219.t1	VP26B
scaffold_7	16805708	16814744	MSTRG.18696.2	VPS11
scaffold_7	16805395	16814744	MSTRG.18696.1	VPS11
scaffold_7	38804652	38805395	MSTRG.18919.1	VSTM5
scaffold_7	38780290	38803523	VSTM5_g19590.t1	VSTM5
scaffold_7	56164640	56164936	VWA1_g19708.t1	VWA1
scaffold_7	12083361	12109711	MSTRG.18661.1	VWA5A
scaffold_7	66903250	66921105	WEE1_g20035.t1	WEE1
scaffold_7	66921885	66922095	MSTRG.19172.1	WEE1
scaffold_7	86286771	86316632	MSTRG.19286.2	WT1
scaffold_7	86287970	86332499	WT1_g20164.t1	WT1
scaffold_7	86286767	86311812	MSTRG.19286.1	WT1
scaffold_7	55052751	55108003	XRRA1_g19689.t1	XRRA1
scaffold_7	31662354	31770054	YAP1_g19553.t1	YAP1
scaffold_7	68095292	68097514	ZBED5_g20045.t1	ZBED5
scaffold_7	68093856	68100680	MSTRG.19180.1	ZBED5
scaffold_7	68094452	68100680	MSTRG.19180.2	ZBED5
scaffold_7	4933765	4964011	ZBT44_g19233.t1	ZBTB44
scaffold_7	21107466	21108155	MSTRG.18755.1	ZBTB16
scaffold_7	21104284	21104873	MSTRG.18752.1	ZBTB16
scaffold_7	21105305	21106117	MSTRG.18753.1	ZBTB16
scaffold_7	21106488	21106867	MSTRG.18754.1	ZBTB16
scaffold_7	21108474	21286197	MSTRG.18756.1	ZBTB16
scaffold_7	4877339	4967828	MSTRG.18618.1	ZBTB44
scaffold_7	4877339	4967828	MSTRG.18618.2	ZBTB44
scaffold_7	24804306	24842768	ZC12C_g19510.t1	ZC3H12C
scaffold_7	24804306	24836955	MSTRG.18803.4	ZC3H12C
scaffold_7	24832273	24866721	MSTRG.18803.6	ZC3H12C
scaffold_7	10161800	10162005	MSTRG.18656.1	ZC3HAV1
scaffold_7	24568602	24569123	MSTRG.18794.1	ZCCHC18
scaffold_7	75185066	75235901	ZDH13_g20110.t1	ZDHHC13
scaffold_7	45784729	45786080	ZHANG_g19627.t1	CREBZF
scaffold_7	66844216	66882823	ZN143_g20034.t1	ZNF143
scaffold_7	12689458	12695437	ZN202_g19371.t2	ZNF202
scaffold_7	64428480	64455479	ZN214_g19984.t2	ZNF214
scaffold_7	66819044	66882823	MSTRG.19170.1	ZNF143
scaffold_7	66819044	66882823	MSTRG.19170.2	ZNF143
scaffold_7	12679140	12695864	MSTRG.18662.1	ZNF202
scaffold_7	12679140	12695864	MSTRG.18662.2	ZNF202
scaffold_7	12679162	12695864	MSTRG.18662.3	ZNF202
scaffold_7	21091078	21091568	MSTRG.18751.1	ZNF385D
scaffold_7	8060086	8060292	MSTRG.18632.1	ZNF530
scaffold_7	55140756	55173036	MSTRG.19026.2	ZNF709

scaffold_7	74414673	74414911	MSTRG.19217.1	ZNF709
scaffold_7	16607186	16607405	MSTRG.18684.1	ZNF768
scaffold_7	22066366	22069905	MSTRG.18766.1	ZNF804A
scaffold_7	22066444	22069905	MSTRG.18766.3	ZNF804A
scaffold_7	18837014	18837414	MSTRG.18731.1	ZPR1
scaffold_7	18828127	18836340	ZPR1_g19458.t1	ZPR1
scaffold_7	21522828	21558120	ZW10_g19474.t1	ZW10
scaffold_8	2114563	2128633	3BP2_g20211.t1	SH3BP2
scaffold_8	44112496	44142942	MSTRG.19611.1	AASDH
scaffold_8	44134185	44134779	MSTRG.19611.3	AASDH
scaffold_8	71925556	72012402	ABCG2_g20622.t1	ABCG2
scaffold_8	71925525	72070887	MSTRG.19777.1	ABCG2
scaffold_8	3809956	3980073	ABLM2_g20233.t1	ABLIM2
scaffold_8	67866240	67880711	ABRX1_g20598.t1	ABRAXAS1
scaffold_8	3550812	3597327	ACOX3_g20228.t1	ACOX3
scaffold_8	44112497	44140027	ACSF4_g20445.t1	AASDH
scaffold_8	3047868	3049269	ADA2C_g20221.t1	ADRA2C
scaffold_8	58249644	58328232	MSTRG.19667.1	ADAMTS3
scaffold_8	58282443	58292991	MSTRG.19667.3	ADAMTS3
scaffold_8	2233428	2240246	MSTRG.19350.1	ADD1
scaffold_8	2189597	2233559	ADDA_g20212.t1	ADD1
scaffold_8	48102725	48132853	MSTRG.19628.1	ADGB
scaffold_8	48390411	48595136	MSTRG.19627.2	ADGRL3
scaffold_8	81723056	81746237	ADH4_g20665.t1	ADH4
scaffold_8	81722425	81746237	MSTRG.19829.1	ADH4
scaffold_8	81725477	81746237	MSTRG.19829.3	ADH4
scaffold_8	81682696	81687492	MSTRG.19825.1	ADH5
scaffold_8	81690698	81695454	MSTRG.19828.2	ADH5
scaffold_8	81872040	81880022	ADH6_g20667.t1	ADH6
scaffold_8	81690500	81699133	ADHX_g20664.t1	ADH5
scaffold_8	40938714	40938917	MSTRG.19580.1	ADRB3
scaffold_8	4158084	4158577	MSTRG.19361.1	AFAP1
scaffold_8	4060705	4157409	MSTRG.19362.1	AFAP1
scaffold_8	4122373	4147427	MSTRG.19362.3	AFAP1
scaffold_8	70915666	71158250	MSTRG.19764.1	AFF1
scaffold_8	70915700	71158250	MSTRG.19764.2	AFF1
scaffold_8	70971254	71054264	MSTRG.19764.4	AFF1
scaffold_8	70972058	71046711	MSTRG.19764.5	AFF1
scaffold_8	59278573	59285166	MSTRG.19677.2	AFP
scaffold_8	18045363	18166405	AGRA3_g20327.t1	ADGRA3
scaffold_8	48713338	48881527	AGRL3_g20461.t1	ADGRL3
scaffold_8	1859097	1868228	MSTRG.19341.1	AKAP5
scaffold_8	13963763	14007907	AMPL_g20316.t1	LAP3
scaffold_8	2799026	2820117	AMRP_g20220.t1	LRPAP1
scaffold_8	20546397	20582491	MSTRG.19467.1	ANAPC4

scaffold_8	20546397	20575483	MSTRG.19467.2	ANAPC4
scaffold_8	58887886	59052965	MSTRG.19679.1	ANKRD17
scaffold_8	58890154	59052965	MSTRG.19679.2	ANKRD17
scaffold_8	58968772	59022446	MSTRG.19679.4	ANKRD17
scaffold_8	58891767	59052965	ANR17_g20518.t1	ANKRD17
scaffold_8	64792055	64932116	MSTRG.19727.1	ANTXR2
scaffold_8	63623633	63664478	ANXA3_g20568.t1	ANXA3
scaffold_8	33716065	33839575	APBB2_g20381.t1	APBB2
scaffold_8	33658764	34020455	MSTRG.19518.1	APBB2
scaffold_8	33659295	34020455	MSTRG.19518.2	APBB2
scaffold_8	33659295	34020455	MSTRG.19518.3	APBB2
scaffold_8	29745430	29910423	ARAP2_g20353.t1	ARAP2
scaffold_8	60026883	60034242	AREG_g20532.t1	AREG
scaffold_8	44241927	44255271	ARL9_g20449.t1	ARL9
scaffold_8	71287276	71287497	MSTRG.19768.1	ASB3
scaffold_8	39149534	39227518	AT10D_g20405.t1	ATP10D
scaffold_8	35055901	35270292	AT8A1_g20389.t1	ATP8A1
scaffold_8	77068472	77069284	ATOH1_g20642.t1	ATOH1
scaffold_8	39119751	39228364	MSTRG.19545.1	ATP10D
scaffold_8	114462	116646	MSTRG.19295.1	ATP5ME
scaffold_8	58252130	58515905	ATS3_g20515.t1	ADAMTS3
scaffold_8	10405206	10459136	BD1L1_g20293.t1	BOD1L1
scaffold_8	85257353	85264766	MSTRG.19865.1	BDH2
scaffold_8	5094890	5095537	BL1S4_g20244.t1	BLOC1S4
scaffold_8	63801634	63937423	MSTRG.19725.1	BMP2K
scaffold_8	63801634	63937423	MSTRG.19725.2	BMP2K
scaffold_8	65779231	65803372	BMP3_g20580.t1	BMP3
scaffold_8	65804035	65806375	MSTRG.19732.1	BMP3
scaffold_8	78062362	78273981	MSTRG.19813.4	BMPR1B
scaffold_8	78178097	78273981	MSTRG.19813.5	BMPR1B
scaffold_8	78162188	78177924	MSTRG.19814.1	BMPR1B
scaffold_8	78205849	78272847	BMR1B_g20649.t1	BMPR1B
scaffold_8	10446906	10458302	MSTRG.19403.2	BOD1L1
scaffold_8	60270559	60311099	BTC_g20533.t1	BTC
scaffold_8	60268440	60268695	MSTRG.19694.1	BTC
scaffold_8	12226191	12236028	MSTRG.19409.1	SPRING1
scaffold_8	68922309	69167026	MSTRG.19762.2	SPRING1
scaffold_8	12024632	12150165	C2D2A_g20298.t1	CC2D2A
scaffold_8	77954529	77954734	MSTRG.19803.1	SPATA31H1
scaffold_8	65160690	65723385	MSTRG.19728.2	CFAP299
scaffold_8	1389936	1391672	CD048_g20202.t1	NICOL1
scaffold_8	1389943	1391148	MSTRG.19328.2	NICOL1
scaffold_8	40998283	40998514	MSTRG.19583.1	CALD1
scaffold_8	56608755	56614053	CASK_g20497.t1	CASK
scaffold_8	3400774	3425332	CBPZ_g20225.t1	CPZ

scaffold_8	20088083	20181624	CC149_g20334.t1	CCDC149
scaffold_8	12030551	12150165	MSTRG.19410.2	CC2D1A
scaffold_8	12101266	12150165	MSTRG.19410.3	CC2D1A
scaffold_8	12143871	12148251	MSTRG.19410.4	CC2D1A
scaffold_8	4818104	4819729	CCD96_g20240.t1	CFAP184
scaffold_8	20085730	20091377	MSTRG.19453.1	CCDC149
scaffold_8	21469990	21477686	CCKAR_g20344.t1	CCKAR
scaffold_8	33663461	33675419	CCL3_g20380.t1	CCL3
scaffold_8	62345565	62353443	CCNG2_g20558.t1	CCNG2
scaffold_8	62344301	62353443	MSTRG.19716.1	CCNG2
scaffold_8	62249675	62272618	CCNI_g20557.t1	CCNI
scaffold_8	62244531	62280346	MSTRG.19715.1	CCNI
scaffold_8	73912385	74450328	CCSE1_g20636.t2	CCSER1
scaffold_8	73771388	73774938	MSTRG.19790.1	CCSER1
scaffold_8	30991059	30993254	CD019_g20357.t1	C4ORF19
scaffold_8	82198294	82203231	CD054_g20674.t1	C4ORF54
scaffold_8	61608038	61685294	CD158_g20553.t1	CCDC158
scaffold_8	12304230	12357502	CD38_g20304.t1	CD38
scaffold_8	60879088	60900783	CDKL2_g20539.t1	CDKL2
scaffold_8	60872039	60879134	PLB1_g20538.t1	CDKL2
scaffold_8	68858228	68918036	CDS1_g20603.t1	CDS1
scaffold_8	68858228	68918361	CDS1_g20603.t2	CDS1
scaffold_8	53458123	53531642	CENPC_g20467.t1	CENPC
scaffold_8	53458040	53531642	MSTRG.19641.1	CENPC
scaffold_8	85310287	85313693	CENPE_g20695.t1	CENPE
scaffold_8	85313694	85326290	CENPE_g20696.t1	CENPE
scaffold_8	85308056	85318701	MSTRG.19871.1	CENPE
scaffold_8	85319512	85329438	MSTRG.19871.4	CENPE
scaffold_8	85319515	85368624	MSTRG.19871.5	CENPE
scaffold_8	85337667	85355594	MSTRG.19871.7	CENPE
scaffold_8	85337667	85355594	MSTRG.19871.8	CENPE
scaffold_8	85337670	85354611	MSTRG.19871.9	CENPE
scaffold_8	51651756	51651966	MSTRG.19638.1	CEP104
scaffold_8	43762544	43839443	MSTRG.19610.3	CEP135
scaffold_8	65160665	65723385	CF299_g20579.t1	CFAP299
scaffold_8	1761364	1802051	CFA99_g20207.t1	CFAP99
scaffold_8	42170892	42231508	CHIC2_g20430.t1	CHIC2
scaffold_8	42167898	42168726	MSTRG.19589.1	CHIC2
scaffold_8	85097916	85119060	CISD2_g20693.t1	CISD2
scaffold_8	43306241	43360903	CLOCK_g20437.t1	CLOCK
scaffold_8	43297793	43298005	MSTRG.19602.1	CLOCK
scaffold_8	43299921	43300153	MSTRG.19603.1	CLOCK
scaffold_8	43301783	43339848	MSTRG.19604.1	CLOCK
scaffold_8	14178962	14217392	CND3_g20320.t1	NCAPG
scaffold_8	62847016	62946036	CNO6L_g20562.t1	CNOT6L

scaffold_8	62838101	62947547	MSTRG.19718.1	CNOT6L
scaffold_8	7839221	7849980	CO6A5_g20279.t1	COL6A5
scaffold_8	39079417	39091478	COMD8_g20403.t1	COMMD8
scaffold_8	67514374	67552934	CSN4_g20591.t1	COPS4
scaffold_8	67705886	67724391	COQ2_g20594.t1	COQ2
scaffold_8	67705886	67724521	COQ2_g20594.t2	COQ2
scaffold_8	67704082	67724521	MSTRG.19750.1	COQ2
scaffold_8	67704117	67720457	MSTRG.19750.2	COQ2
scaffold_8	39231108	39453040	CORIN_g20406.t1	CORIN
scaffold_8	58875304	58887331	COX18_g20517.t1	COX18
scaffold_8	11654149	11721772	CPEB2_g20296.t1	CPEB2
scaffold_8	11654149	11718437	CPEB2_g20296.t2	CPEB2
scaffold_8	11655339	11721456	MSTRG.19407.3	CPEB2
scaffold_8	11655761	11704929	MSTRG.19407.5	CPEB2
scaffold_8	44078104	44106820	CRACD_g20444.t2	CRACD
scaffold_8	613593	631671	CTBP1_g20186.t1	CTBP1
scaffold_8	612629	642115	MSTRG.19307.1	CTBP1
scaffold_8	612629	641380	MSTRG.19307.2	CTBP1
scaffold_8	612824	642115	MSTRG.19307.3	CTBP1
scaffold_8	59579569	59580922	CXCL2_g20526.t1	CXCL2
scaffold_8	59681808	59713392	CXCL2_g20527.t1	CXCL2
scaffold_8	59700392	59702392	MSTRG.19686.4	CXCL2
scaffold_8	59579569	59714002	MSTRG.19686.1	CXCL3
scaffold_8	61279289	61283582	CXCL9_g20545.t1	CXCL9
scaffold_8	61303223	61304749	CXL10_g20546.t1	CXCL10
scaffold_8	71180583	71180788	MSTRG.19769.1	CYTH3
scaffold_8	82371798	82449110	MSTRG.19840.1	DAPP1
scaffold_8	82371798	82388990	MSTRG.19840.2	DAPP1
scaffold_8	14169380	14170086	DCA16_g20319.t1	DCAF16
scaffold_8	14165619	14178624	MSTRG.19421.1	DCAF16
scaffold_8	14170087	14178624	MSTRG.19421.3	DCAF16
scaffold_8	57260234	57294400	DCK_g20511.t1	DCK
scaffold_8	40477135	40546485	MSTRG.19560.1	DCUN1D4
scaffold_8	40546586	40549537	MSTRG.19562.1	DCUN1D4
scaffold_8	82669840	82674613	MSTRG.19841.1	DDIT4L
scaffold_8	371891	385870	DGKQ_g20180.t1	DGKQ
scaffold_8	372145	377133	MSTRG.19300.2	DGKQ
scaffold_8	71284985	71317104	DHB11_g20614.t1	HSD17B11
scaffold_8	13921602	13938010	DHPR_g20314.t1	QDPR
scaffold_8	19858226	19912076	DHX15_g20332.t1	DHX15
scaffold_8	82405730	82449110	DJB14_g20679.t1	DNAJB14
scaffold_8	82400015	82449110	MSTRG.19840.6	DNAJB14
scaffold_8	82410510	82449110	MSTRG.19840.8	DNAJB14
scaffold_8	2760048	2788070	DOK7_g20219.t1	DOK7
scaffold_8	2750985	2778191	MSTRG.19356.1	DOK7

scaffold_8	19807345	19820276	ECT2L_g20330.t1	ECT2L
scaffold_8	54221129	54221467	MSTRG.19645.1	EIF2S2
scaffold_8	81522264	81561200	MSTRG.19822.2	EIF4E
scaffold_8	82856936	82857155	MSTRG.19842.1	EMCN
scaffold_8	82858593	82959048	MSTRG.19846.1	EMCN
scaffold_8	7203970	7204494	AN13D_g20270.t1	EMD
scaffold_8	56985843	56998332	ENAM_g20505.t1	ENAM
scaffold_8	66953693	66987447	ENOPH_g20585.t1	ENOPH1
scaffold_8	59905259	59911140	EPGN_g20529.t1	EPGN
scaffold_8	59956798	59974656	EREG_g20530.t1	EREG
scaffold_8	5948286	6021888	EVC_g20260.t1	EVC
scaffold_8	6158632	6163988	MSTRG.19399.2	EVC2
scaffold_8	5944949	6021888	MSTRG.19378.1	EVC2
scaffold_8	5944962	6022030	MSTRG.19378.2	EVC2
scaffold_8	10035629	10040226	GVIN1_g20289.t1	EXO5
scaffold_8	43681532	43731997	EXOC1_g20442.t1	EXOC1
scaffold_8	43676497	43731997	MSTRG.19607.1	EXOC1
scaffold_8	43676497	43731997	MSTRG.19607.2	EXOC1
scaffold_8	14027639	14152281	F184B_g20318.t1	F184B
scaffold_8	1857000	2025859	F193A_g20209.t1	FAM193A
scaffold_8	12234004	12236028	F200B_g20302.t1	FAM200B
scaffold_8	72747254	72782734	FA13A_g20630.t2	FAM13A
scaffold_8	1029821	1032253	FA53A_g20194.t1	FA53A
scaffold_8	32050980	32120587	MSTRG.19497.1	FAM114A1
scaffold_8	32050980	32120015	MSTRG.19497.2	FAM114A1
scaffold_8	32050980	32099546	MSTRG.19497.3	FAM114A1
scaffold_8	72460191	72561262	MSTRG.19786.2	FAM13A
scaffold_8	72460193	72806515	MSTRG.19786.4	FAM13A
scaffold_8	72460215	72782734	MSTRG.19786.6	FAM13A
scaffold_8	72460220	72806515	MSTRG.19786.7	FAM13A
scaffold_8	72460191	72782734	MSTRG.19786.1	FAM13A
scaffold_8	72587730	72806515	MSTRG.19786.10	FAM13A
scaffold_8	72460193	72782734	MSTRG.19786.3	FAM13A
scaffold_8	72460193	72492004	MSTRG.19786.5	FAM13A
scaffold_8	67298847	67299057	MSTRG.19742.1	FAM151A
scaffold_8	67866042	67917444	MSTRG.19755.1	FAM175A
scaffold_8	14235387	14235895	MSTRG.19426.1	FAM19A3
scaffold_8	12153984	12198035	FBXL5_g20299.t1	FBXL5
scaffold_8	12150232	12198035	MSTRG.19411.1	FBXL5
scaffold_8	59261440	59290767	FETA_g20521.t1	FETA
scaffold_8	12440991	12441770	FGFP1_g20305.t1	FGFP1
scaffold_8	1174408	1191577	MSTRG.19318.1	FGFR3
scaffold_8	426856	439952	IDUA_g20183.t2	FGFRL1
scaffold_8	426206	440623	MSTRG.19302.1	FGFRL1
scaffold_8	44148188	44180793	MSTRG.19615.1	FIG4

scaffold_8	41644488	41715394	FIP1_g20427.t1	FIP1
scaffold_8	41644488	41715394	FIP1_g20427.t2	FIP1
scaffold_8	41644230	41715394	MSTRG.19587.1	FIP1L1
scaffold_8	41644230	41716565	MSTRG.19587.2	FIP1L1
scaffold_8	41644281	41715394	MSTRG.19587.3	FIP1L1
scaffold_8	41644281	41716565	MSTRG.19587.4	FIP1L1
scaffold_8	35102077	35102307	MSTRG.19530.1	FOXE1
scaffold_8	63548163	63589794	FRAS1_g20567.t1	FRAS1
scaffold_8	40002280	40138814	FRYL_g20417.t1	FRYL
scaffold_8	39998786	40281745	MSTRG.19568.2	FRYL
scaffold_8	40000560	40211772	MSTRG.19568.4	FRYL
scaffold_8	39998786	40248195	MSTRG.19568.1	FRYL
scaffold_8	40000042	40281745	MSTRG.19568.3	FRYL
scaffold_8	60917746	60951433	MSTRG.19699.1	G3BP
scaffold_8	60917802	60996456	MSTRG.19699.2	G3BP
scaffold_8	60921670	60935383	G3BP2_g20540.t1	G3BP2
scaffold_8	38064045	38136853	MSTRG.19542.2	GABRA2
scaffold_8	38080219	38136853	MSTRG.19542.3	GABRA2
scaffold_8	76075171	76076757	HERP2_g20640.t1	GABRB3
scaffold_8	274914	341477	GAK_g20178.t1	GAK
scaffold_8	273461	341477	MSTRG.19298.1	GAK
scaffold_8	273509	341477	MSTRG.19298.2	GAK
scaffold_8	286767	341477	MSTRG.19298.4	GAK
scaffold_8	319459	341477	MSTRG.19298.5	GAK
scaffold_8	18307117	18398594	GBA3_g20328.t1	GBA3
scaffold_8	18395293	18398594	MSTRG.19444.2	GBA3
scaffold_8	38050129	38201738	GBRA2_g20399.t1	GABRA2
scaffold_8	38689245	39058790	GBRB1_g20402.t1	GBRB1
scaffold_8	37909830	37981177	GBRG1_g20398.t1	GABRG1
scaffold_8	19838625	19849569	GDAS1_g20331.t1	GDAS1
scaffold_8	64374332	64375993	GLPK2_g20573.t1	GK2
scaffold_8	36877208	36904777	MSTRG.19536.2	GNPDA2
scaffold_8	36876574	36904777	MSTRG.19536.1	GNPDA2
scaffold_8	67918546	67983840	GPAT3_g20599.t1	GPAT3
scaffold_8	67917461	68004066	MSTRG.19756.2	GPAT3
scaffold_8	67917461	68004066	MSTRG.19756.1	GPAT3
scaffold_8	67918071	67983840	MSTRG.19756.3	GPAT3
scaffold_8	75573502	75868519	GRID2_g20639.t1	GRID2
scaffold_8	75573502	75873303	GRID2_g20639.t3	GRID2
scaffold_8	76321616	77021217	GRID2_g20641.t1	GRID2
scaffold_8	75573098	77023188	MSTRG.19793.1	GRID2
scaffold_8	75573098	77053088	MSTRG.19793.2	GRID2
scaffold_8	33062517	33062731	MSTRG.19513.1	GRIK1
scaffold_8	72916625	72918076	GRIN3_g20632.t1	GRIN3
scaffold_8	2272742	2365543	GRK4_g20215.t1	GRK4

scaffold_8	59712598	59714002	MSTRG.19686.5	GROG
scaffold_8	4793388	4798997	MSTRG.19363.1	GRPEL1
scaffold_8	57142874	57153242	GRSF1_g20509.t1	GRSF1
scaffold_8	57140507	57153242	MSTRG.19655.1	GRSF1
scaffold_8	7499627	7566259	GTR9_g20276.t3	SLC2A9
scaffold_8	36853486	36874614	GUF1_g20393.t1	GUF1
scaffold_8	36853390	36874614	GUF1_g20393.t2	GUF1
scaffold_8	36853196	36874614	MSTRG.19534.1	GUF1
scaffold_8	36853196	36870925	MSTRG.19534.2	GUF1
scaffold_8	36853204	36874614	MSTRG.19534.3	GUF1
scaffold_8	36855917	36867935	MSTRG.19534.6	GUF1
scaffold_8	82450848	82452512	H2AZ_g20680.t1	H2AZ1
scaffold_8	1584162	1596613	HAUS3_g20204.t2	HAUS3
scaffold_8	67809870	67858400	HELQ_g20596.t1	HELQ
scaffold_8	67812696	67858400	MSTRG.19751.2	HELQ
scaffold_8	67835280	67858400	MSTRG.19751.3	HELQ
scaffold_8	72338502	72444628	MSTRG.19782.1	HERC3
scaffold_8	72178657	72227955	HERC5_g20624.t1	HERC5
scaffold_8	72233177	72273067	HERC5_g20624.t2	HERC5
scaffold_8	80681120	80901405	MSTRG.19820.1	HMGN2
scaffold_8	66948934	66952768	HNRDL_g20584.t1	HNRNPDL
scaffold_8	66874784	66892910	MSTRG.19736.1	HNRNPD
scaffold_8	66874784	66892910	MSTRG.19736.2	HNRNPD
scaffold_8	66874792	66892910	MSTRG.19736.3	HNRNPD
scaffold_8	66876267	66892910	HNRPD_g20583.t1	HNRNPD
scaffold_8	44359349	44368391	MSTRG.19618.1	HOPX
scaffold_8	44359349	44368391	MSTRG.19618.2	HOPX
scaffold_8	44359354	44368391	MSTRG.19618.3	HOPX
scaffold_8	77443050	77463850	HPGDS_g20646.t1	HPGDS
scaffold_8	8611503	8612547	HS3S1_g20284.t1	HS3S1
scaffold_8	8611102	8639623	MSTRG.19398.1	HS3ST1
scaffold_8	2390783	2552561	MSTRG.19351.2	HTT
scaffold_8	2524349	2534418	MSTRG.19351.4	HTT
scaffold_8	2390783	2552561	MSTRG.19351.1	HTT
scaffold_8	32599789	32617655	HXA2_g20372.t1	HXA2
scaffold_8	44663300	44741762	IBP7_g20458.t1	IGFBP7
scaffold_8	396320	397554	IDUA_g20181.t1	IDUA
scaffold_8	403364	412060	IDUA_g20183.t1	IDUA
scaffold_8	396158	412810	MSTRG.19303.1	IDUA
scaffold_8	396320	413701	MSTRG.19303.2	IDUA
scaffold_8	413772	418096	MSTRG.19305.1	IDUA
scaffold_8	20375390	20375630	MSTRG.19455.1	IF2
scaffold_8	81520481	81568068	IF4E_g20662.t1	IF4E
scaffold_8	59454114	59456117	IL8_g20523.t1	CXCL8
scaffold_8	58711246	58711452	INSRR_g20516.t1	INSRR

scaffold_8	57006993	57007799	MSTRG.19656.1	JCHAIN
scaffold_8	57007038	57055282	MSTRG.19656.2	JCHAIN
scaffold_8	4953063	4987480	K0232_g20242.t1	KIAA0232
scaffold_8	5001942	5002752	K0232_g20243.t1	KIAA0232
scaffold_8	1823881	1825921	MSTRG.19338.1	KCNIP3
scaffold_8	16615532	17273390	MSTRG.19435.1	KCNIP4
scaffold_8	17466096	17466620	MSTRG.19436.1	KCNIP4
scaffold_8	25349549	25404951	MSTRG.19482.1	KCNMB3
scaffold_8	36412428	36664902	KCTD8_g20391.t1	KCTD8
scaffold_8	4950728	5035757	MSTRG.19368.1	KIAA0232
scaffold_8	4950728	5035757	MSTRG.19368.2	KIAA0232
scaffold_8	8511528	8513454	KIT_g20283.t1	KIT
scaffold_8	42709509	42787535	KIT_g20433.t1	KIT
scaffold_8	42787811	42788779	MSTRG.19595.1	KIT
scaffold_8	31898036	31934603	MSTRG.19493.2	KLF3
scaffold_8	31898008	31934603	MSTRG.19493.1	KLF3
scaffold_8	31898036	31934603	MSTRG.19493.3	KLF3
scaffold_8	32216676	32269388	KLHL5_g20366.t1	KLHL5
scaffold_8	71119195	71148249	KLHL8_g20612.t1	KLHL8
scaffold_8	71114097	71138966	MSTRG.19765.1	KLHL8
scaffold_8	71114690	71148249	MSTRG.19765.2	KLHL8
scaffold_8	71119881	71148249	MSTRG.19765.4	KLHL8
scaffold_8	71131114	71148249	MSTRG.19765.5	KLHL8
scaffold_8	15291129	15291344	MSTRG.19423.1	LAMP
scaffold_8	82382219	82449110	MSTRG.19840.4	LAMTOR3
scaffold_8	14219374	14375831	MSTRG.19424.1	LCORL
scaffold_8	14242108	14375831	MSTRG.19424.3	LCORL
scaffold_8	14250464	14250728	MSTRG.19427.1	LCORL
scaffold_8	1199203	1235766	LETM1_g20199.t1	LETM1
scaffold_8	1203297	1232351	MSTRG.19319.3	LETM1
scaffold_8	20245273	20271767	LGI2_g20335.t1	LGI2
scaffold_8	32549305	32551325	MSTRG.19505.2	LIAS
scaffold_8	34384874	34450315	LIMC1_g20383.t1	LIMC1
scaffold_8	34450853	34451108	MSTRG.19521.1	LIMCH1
scaffold_8	67429258	67514118	LIN54_g20590.t1	LIN54
scaffold_8	67426820	67492262	MSTRG.19743.1	LIN54
scaffold_8	67426820	67492262	MSTRG.19743.2	LIN54
scaffold_8	41716569	41815064	LNX1_g20428.t1	LNX1
scaffold_8	77044339	77056218	MSTRG.19793.7	LOC101390896
scaffold_8	40592646	40622698	LRC66_g20422.t1	LRRC66
scaffold_8	1628541	1754780	LST2_g20206.t1	ZFYVE28
scaffold_8	82382219	82401684	LTOR3_g20678.t1	LTOR3
scaffold_8	1235983	1244278	MSTRG.19320.1	LURAP1
scaffold_8	1235995	1244278	MSTRG.19320.2	LURAP1
scaffold_8	7830510	7830721	MSTRG.19386.1	LUZP1

scaffold_8	14308110	14308331	MSTRG.19428.1	LY75
scaffold_8	41103754	41104001	MSTRG.19575.1	LY75
scaffold_8	7205382	7225032	MSTRG.19384.1	LYAR
scaffold_8	7208863	7216201	MSTRG.19384.2	LYAR
scaffold_8	1606181	1618105	MAD4_g20205.t1	MAD4
scaffold_8	720079	758403	MAEA_g20187.t1	MAEA
scaffold_8	720019	759073	MSTRG.19310.1	MAEA
scaffold_8	749108	759073	MSTRG.19310.3	MAEA
scaffold_8	84865465	84993692	MANBA_g20691.t1	MANBA
scaffold_8	81610376	81675558	MAP1_g20663.t1	MAP1
scaffold_8	14012415	14022598	MED28_g20317.t1	MED28
scaffold_8	14012398	14022598	MSTRG.19418.1	MED28
scaffold_8	14012920	14022598	MSTRG.19418.3	MED28
scaffold_8	71653105	71676083	MEPE_g20619.t1	MEPE
scaffold_8	71825548	71831915	MEPE_g20619.t2	MEPE
scaffold_8	2235979	2239417	MFS10_g20213.t1	MFSD10
scaffold_8	2234527	2240246	MSTRG.19350.2	MFSD10
scaffold_8	2235172	2240246	MSTRG.19350.3	MFSD10
scaffold_8	40655752	40691858	MIEAP_g20423.t1	SPATA18
scaffold_8	70081557	70222994	MK10_g20607.t1	MK10
scaffold_8	77920466	77920692	MSTRG.19804.1	MMGT1
scaffold_8	62767286	62768257	MO4L1_g20561.t1	MORF4L1
scaffold_8	57191530	57248208	MOB1B_g20510.t1	MOB1B
scaffold_8	57245366	57246945	MSTRG.19661.2	MOB1B
scaffold_8	57248388	57249442	MSTRG.19663.1	MOB1B
scaffold_8	57249717	57250252	MSTRG.19664.1	MOB1B
scaffold_8	57250789	57252582	MSTRG.19665.1	MOB1B
scaffold_8	57253073	57253954	MSTRG.19666.1	MOB1B
scaffold_8	5101258	5101650	MOFA1_g20245.t1	MOFA1
scaffold_8	40937753	40938312	MSTRG.19564.1	MPPE1
scaffold_8	5166693	5167052	MR1L1_g20248.t1	MRFAP1L1
scaffold_8	5101069	5103497	MSTRG.19370.1	MRFAP1
scaffold_8	5136748	5138751	MSTRG.19371.1	MRFAP1L2
scaffold_8	5136748	5138751	MSTRG.19371.2	MRFAP1L2
scaffold_8	5177900	5179986	MSTRG.19373.1	MRFAP1L2
scaffold_8	62992618	63070707	MSTRG.19720.1	MRPL1
scaffold_8	67858690	67864175	MSTRG.19752.1	MRPS18C
scaffold_8	67858704	67864175	MSTRG.19752.2	MRPS18C
scaffold_8	2558424	2565516	MSD1_g20217.t1	MSANTD1
scaffold_8	59753722	59899950	MSTRG.19688.1	MTHFD2L
scaffold_8	59753723	59761250	MSTRG.19688.2	MTHFD2L
scaffold_8	59753723	59899950	MSTRG.19688.3	MTHFD2L
scaffold_8	59869437	59895893	MSTRG.19689.2	MTHFD2L
scaffold_8	82121018	82167719	MTP_g20672.t1	MTTP
scaffold_8	82866439	82959048	MUCEN_g20682.t1	MUCEN

scaffold_8	33089517	33142181	N4BP2_g20375.t1	N4BP2
scaffold_8	61192624	61214470	NAAA_g20543.t1	NAAA
scaffold_8	61191294	61214470	MSTRG.19702.1	NAAA
scaffold_8	79802446	79823522	NACAM_g20656.t1	NACAM
scaffold_8	61354772	61411612	NAR3_g20548.t1	ART3
scaffold_8	1399099	1404030	NAT8L_g20203.t1	NAT8L
scaffold_8	1404633	1404856	MSTRG.19326.1	NAT8L
scaffold_8	1408094	1408313	MSTRG.19330.1	NAT8L
scaffold_8	39930713	39935897	NCHL1_g20414.t1	CHL1
scaffold_8	1339628	1368636	NELFA_g20201.t1	NELFA
scaffold_8	84740948	84854156	MSTRG.19855.1	NFKB1
scaffold_8	84821054	84831070	MSTRG.19855.3	NFKB1
scaffold_8	84762846	84833983	NFKB1_g20690.t1	NFKB1
scaffold_8	39461632	39513341	NFXL1_g20407.t1	NFXL1
scaffold_8	39460628	39513739	MSTRG.19552.1	NFXL1
scaffold_8	39572502	39591571	NIPA3_g20410.t1	NIPAL1
scaffold_8	39594657	39594894	MSTRG.19546.1	NIPAL1
scaffold_8	39591686	39593572	MSTRG.19550.1	NIPAL1
scaffold_8	39593833	39594036	MSTRG.19551.1	NIPAL1
scaffold_8	44596030	44608759	NOA1_g20456.t1	NOA1
scaffold_8	44608623	44663079	MSTRG.19623.1	NOA1
scaffold_8	2243283	2271844	NOP14_g20214.t1	NOP14
scaffold_8	2248409	2261612	MSTRG.19343.2	NOP14
scaffold_8	81902539	81916568	ADH1E_g20668.t1	ADH1E_g20668.t1
scaffold_8	71244344	71274190	DHB13_g20613.t1	DHB13_g20613.t1
scaffold_8	10036560	10037147	FV1_g20290.t1	FV1_g20290.t1
scaffold_8	11220266	11221897	FV1_g20295.t1	FV1_g20295.t1
scaffold_8	24973257	24974621	FV1_g20348.t1	FV1_g20348.t1
scaffold_8	1584162	1597493	MSTRG.19334.7	MSTRG.19334.7
scaffold_8	2089900	2129194	MSTRG.19339.1	MSTRG.19339.1
scaffold_8	1857158	2030286	MSTRG.19340.2	MSTRG.19340.2
scaffold_8	1857187	2030286	MSTRG.19340.5	MSTRG.19340.5
scaffold_8	5106414	5106643	MSTRG.19369.1	MSTRG.19369.1
scaffold_8	11931354	11931568	MSTRG.19406.1	MSTRG.19406.1
scaffold_8	11655761	11704929	MSTRG.19407.4	MSTRG.19407.4
scaffold_8	14321313	14321536	MSTRG.19429.1	MSTRG.19429.1
scaffold_8	16190309	16190516	MSTRG.19433.1	MSTRG.19433.1
scaffold_8	17273678	17463024	MSTRG.19437.1	MSTRG.19437.1
scaffold_8	17288164	17463024	MSTRG.19437.2	MSTRG.19437.2
scaffold_8	17916962	17917191	MSTRG.19439.1	MSTRG.19439.1
scaffold_8	18927072	18927293	MSTRG.19443.1	MSTRG.19443.1
scaffold_8	21852706	21852925	MSTRG.19471.1	MSTRG.19471.1
scaffold_8	24742897	24743203	MSTRG.19475.1	MSTRG.19475.1
scaffold_8	25065500	25065711	MSTRG.19477.1	MSTRG.19477.1
scaffold_8	31331642	31475858	MSTRG.19491.2	MSTRG.19491.2

scaffold_8	32000213	32000652	MSTRG.19492.1	MSTRG.19492.1
scaffold_8	32600922	32617655	MSTRG.19508.2	MSTRG.19508.2
scaffold_8	33588311	33588535	MSTRG.19517.1	MSTRG.19517.1
scaffold_8	34456294	34456511	MSTRG.19522.1	MSTRG.19522.1
scaffold_8	36478172	36478380	MSTRG.19527.1	MSTRG.19527.1
scaffold_8	37705849	37706055	MSTRG.19532.1	MSTRG.19532.1
scaffold_8	38761774	38761977	MSTRG.19541.1	MSTRG.19541.1
scaffold_8	40559429	40559644	MSTRG.19559.1	MSTRG.19559.1
scaffold_8	41023548	41027102	MSTRG.19576.2	MSTRG.19576.2
scaffold_8	41154152	41157508	MSTRG.19579.9	MSTRG.19579.9
scaffold_8	41644488	41715394	MSTRG.19587.5	MSTRG.19587.5
scaffold_8	41644488	41715394	MSTRG.19587.7	MSTRG.19587.7
scaffold_8	43986147	43986351	MSTRG.19608.1	MSTRG.19608.1
scaffold_8	43759303	43828860	MSTRG.19610.2	MSTRG.19610.2
scaffold_8	44355287	44355496	MSTRG.19612.1	MSTRG.19612.1
scaffold_8	44285142	44285363	MSTRG.19614.1	MSTRG.19614.1
scaffold_8	47277529	47277756	MSTRG.19621.1	MSTRG.19621.1
scaffold_8	48383824	48384053	MSTRG.19635.1	MSTRG.19635.1
scaffold_8	48451362	48451587	MSTRG.19636.1	MSTRG.19636.1
scaffold_8	53823750	53823975	MSTRG.19643.1	MSTRG.19643.1
scaffold_8	54327728	54364646	MSTRG.19651.3	MSTRG.19651.3
scaffold_8	58338949	58341820	MSTRG.19669.1	MSTRG.19669.1
scaffold_8	58476755	58476966	MSTRG.19675.1	MSTRG.19675.1
scaffold_8	62154793	62155011	MSTRG.19712.1	MSTRG.19712.1
scaffold_8	63605121	63664478	MSTRG.19724.2	MSTRG.19724.2
scaffold_8	66898305	66898509	MSTRG.19734.1	MSTRG.19734.1
scaffold_8	67223757	67224925	MSTRG.19741.1	MSTRG.19741.1
scaffold_8	67306578	67386266	MSTRG.19746.1	MSTRG.19746.1
scaffold_8	67306578	67386266	MSTRG.19746.2	MSTRG.19746.2
scaffold_8	67309179	67386266	MSTRG.19746.3	MSTRG.19746.3
scaffold_8	67388841	67396817	MSTRG.19747.4	MSTRG.19747.4
scaffold_8	67388841	67396817	MSTRG.19747.6	MSTRG.19747.6
scaffold_8	67388841	67396817	MSTRG.19747.7	MSTRG.19747.7
scaffold_8	68192098	68192313	MSTRG.19758.1	MSTRG.19758.1
scaffold_8	68922278	69193764	MSTRG.19762.1	MSTRG.19762.1
scaffold_8	68929720	69167026	MSTRG.19762.4	MSTRG.19762.4
scaffold_8	68929744	69233114	MSTRG.19762.5	MSTRG.19762.5
scaffold_8	71495151	71495365	MSTRG.19772.1	MSTRG.19772.1
scaffold_8	73250876	73251094	MSTRG.19785.1	MSTRG.19785.1
scaffold_8	74645781	74645991	MSTRG.19789.1	MSTRG.19789.1
scaffold_8	77921481	77921765	MSTRG.19805.1	MSTRG.19805.1
scaffold_8	78014363	78014711	MSTRG.19811.1	MSTRG.19811.1
scaffold_8	78042912	78273981	MSTRG.19813.1	MSTRG.19813.1
scaffold_8	78051806	78273981	MSTRG.19813.3	MSTRG.19813.3
scaffold_8	79634119	79637581	MSTRG.19815.1	MSTRG.19815.1

scaffold_8	80664769	80665069	MSTRG.19817.1	MSTRG.19817.1
scaffold_8	81876129	81876340	MSTRG.19833.1	MSTRG.19833.1
scaffold_8	81878863	81879305	MSTRG.19834.1	MSTRG.19834.1
scaffold_8	82374292	82378994	MSTRG.19840.3	MSTRG.19840.3
scaffold_8	83374508	83374740	MSTRG.19845.1	MSTRG.19845.1
scaffold_8	84076447	84388980	MSTRG.19851.1	MSTRG.19851.1
scaffold_8	84076726	84388980	MSTRG.19851.3	MSTRG.19851.3
scaffold_8	85296460	85304806	MSTRG.19867.1	MSTRG.19867.1
scaffold_8	8340814	8342883	NDK_g20282.t1	NDK_g20282.t1
scaffold_8	6753677	6754504	TITIN_g20266.t1	TITIN_g20266.t1
scaffold_8	341605	370744	MSTRG.19299.1	NOTHING
scaffold_8	341628	368633	MSTRG.19299.2	NOTHING
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scaffold_8	662138	680907	MSTRG.19306.1	NOTHING
scaffold_8	701249	701449	MSTRG.19308.1	NOTHING
scaffold_8	804911	805629	MSTRG.19311.1	NOTHING
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scaffold_8	1409196	1409415	MSTRG.19327.1	NOTHING
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scaffold_8	20484694	20541784	MSTRG.19463.3	NOTHING
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scaffold_8	42159893	42160129	MSTRG.19594.1	NOTHING
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scaffold_8	43245236	43248150	MSTRG.19601.1	NOTHING
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scaffold_8	48344515	48344724	MSTRG.19634.1	NOTHING
scaffold_8	53577814	53578112	MSTRG.19639.1	NOTHING
scaffold_8	53581730	53581948	MSTRG.19640.1	NOTHING

scaffold_8	54395084	54395316	MSTRG.19647.1	NOTHING
scaffold_8	54459066	54459268	MSTRG.19649.1	NOTHING
scaffold_8	54963939	54964182	MSTRG.19650.1	NOTHING
scaffold_8	54365316	54388964	MSTRG.19652.1	NOTHING
scaffold_8	57134391	57134718	MSTRG.19654.1	NOTHING
scaffold_8	57076801	57080763	MSTRG.19659.1	NOTHING
scaffold_8	57234141	57234354	MSTRG.19662.1	NOTHING
scaffold_8	58280096	58281434	MSTRG.19668.1	NOTHING
scaffold_8	58342170	58374085	MSTRG.19670.1	NOTHING
scaffold_8	58376898	58377200	MSTRG.19671.1	NOTHING
scaffold_8	58378448	58378785	MSTRG.19672.1	NOTHING
scaffold_8	58432958	58433210	MSTRG.19673.1	NOTHING
scaffold_8	58458307	58458508	MSTRG.19674.1	NOTHING
scaffold_8	58488406	58488619	MSTRG.19676.1	NOTHING
scaffold_8	58873098	58887331	MSTRG.19678.1	NOTHING
scaffold_8	59026028	59079761	MSTRG.19680.1	NOTHING
scaffold_8	59040380	59052070	MSTRG.19681.1	NOTHING
scaffold_8	59333477	59347023	MSTRG.19683.1	NOTHING
scaffold_8	59978313	59978513	MSTRG.19687.1	NOTHING
scaffold_8	59869312	59872380	MSTRG.19689.1	NOTHING
scaffold_8	59941878	59942080	MSTRG.19691.1	NOTHING
scaffold_8	60913965	60914182	MSTRG.19698.1	NOTHING
scaffold_8	60937249	60951433	MSTRG.19699.4	NOTHING
scaffold_8	61218437	61218867	MSTRG.19701.1	NOTHING
scaffold_8	63370869	63371140	MSTRG.19719.1	NOTHING
scaffold_8	63605095	63664478	MSTRG.19724.1	NOTHING
scaffold_8	65160895	65723385	MSTRG.19728.3	NOTHING
scaffold_8	65453360	65454585	MSTRG.19729.1	NOTHING
scaffold_8	66104067	66104817	MSTRG.19730.1	NOTHING
scaffold_8	66942974	66943178	MSTRG.19735.1	NOTHING
scaffold_8	66944694	66953322	MSTRG.19737.1	NOTHING
scaffold_8	66944694	66953322	MSTRG.19737.2	NOTHING
scaffold_8	67554963	67579635	MSTRG.19744.1	NOTHING
scaffold_8	67304686	67314753	MSTRG.19745.1	NOTHING
scaffold_8	67386405	67396817	MSTRG.19747.1	NOTHING
scaffold_8	67387860	67396817	MSTRG.19747.2	NOTHING
scaffold_8	67387860	67396817	MSTRG.19747.3	NOTHING
scaffold_8	67388841	67396817	MSTRG.19747.5	NOTHING
scaffold_8	68004579	68007328	MSTRG.19753.1	NOTHING
scaffold_8	68008403	68008632	MSTRG.19754.1	NOTHING
scaffold_8	68009694	68009907	MSTRG.19757.1	NOTHING
scaffold_8	68920962	68921293	MSTRG.19759.1	NOTHING
scaffold_8	68878257	68880193	MSTRG.19761.1	NOTHING
scaffold_8	68929744	69167026	MSTRG.19762.6	NOTHING
scaffold_8	70928174	71046711	MSTRG.19764.3	NOTHING

scaffold_8	71283535	71284342	MSTRG.19766.1	NOTHING
scaffold_8	71163255	71163457	MSTRG.19775.1	NOTHING
scaffold_8	72336447	72336720	MSTRG.19779.1	NOTHING
scaffold_8	72532107	72561262	MSTRG.19786.9	NOTHING
scaffold_8	72637870	72638738	MSTRG.19788.1	NOTHING
scaffold_8	76988929	77005781	MSTRG.19796.1	NOTHING
scaffold_8	77893023	77912116	MSTRG.19798.1	NOTHING
scaffold_8	77916772	77916990	MSTRG.19799.1	NOTHING
scaffold_8	77937493	77937922	MSTRG.19801.1	NOTHING
scaffold_8	77946887	77947118	MSTRG.19802.1	NOTHING
scaffold_8	77956419	77956701	MSTRG.19806.1	NOTHING
scaffold_8	77975227	77975445	MSTRG.19807.1	NOTHING
scaffold_8	77976397	77976629	MSTRG.19808.1	NOTHING
scaffold_8	77990342	77990569	MSTRG.19809.1	NOTHING
scaffold_8	78005953	78006184	MSTRG.19810.1	NOTHING
scaffold_8	78036630	78036851	MSTRG.19812.1	NOTHING
scaffold_8	79631859	79633816	MSTRG.19816.1	NOTHING
scaffold_8	78276405	78651904	MSTRG.19818.1	NOTHING
scaffold_8	80672461	80672674	MSTRG.19819.1	NOTHING
scaffold_8	81411204	81411443	MSTRG.19826.1	NOTHING
scaffold_8	81855847	81874978	MSTRG.19830.1	NOTHING
scaffold_8	81876733	81876981	MSTRG.19832.2	NOTHING
scaffold_8	82112433	82167719	MSTRG.19837.1	NOTHING
scaffold_8	82852792	82853001	MSTRG.19844.1	NOTHING
scaffold_8	83601344	83609233	MSTRG.19848.1	NOTHING
scaffold_8	83675473	83684128	MSTRG.19849.1	NOTHING
scaffold_8	85057822	85097741	MSTRG.19859.1	NOTHING
scaffold_8	85272159	85278887	MSTRG.19866.1	NOTHING
scaffold_8	85272164	85280178	MSTRG.19866.2	NOTHING
scaffold_8	85304006	85304806	MSTRG.19867.2	NOTHING
scaffold_8	72431375	72431902	NP1L5_g20629.t1	NAP1L5
scaffold_8	58142643	58154517	NPFF2_g20514.t1	NPFF2
scaffold_8	20785635	20800205	NPT2B_g20340.t1	NPT2B
scaffold_8	1249747	1335564	MSTRG.19324.2	NSD2
scaffold_8	1271485	1335564	NSD2_g20200.t1	NSD2
scaffold_8	1337534	1338442	MSTRG.19322.1	NSD2
scaffold_8	1249747	1335564	MSTRG.19324.1	NSD2
scaffold_8	1249756	1333636	MSTRG.19324.3	NSD2
scaffold_8	7098573	7128500	NSG1_g20268.t1	NSG1
scaffold_8	33608237	33656264	NSUN7_g20379.t1	NSUN7
scaffold_8	39984952	39990543	NTCP4_g20415.t1	NTCP4
scaffold_8	71349156	71369626	MSTRG.19771.2	NUDT9
scaffold_8	71340655	71369626	NUDT9_g20615.t1	NUDT9
scaffold_8	72538843	72542639	MSTRG.19787.1	NUP214
scaffold_8	61414291	61444897	MSTRG.19706.1	NUP54

scaffold_8	61414294	61444224	MSTRG.19706.2	NUP54
scaffold_8	61414529	61444897	NUP54_g20549.t1	NUP54
scaffold_8	32059344	32120015	NXP20_g20364.t1	FAM114A1
scaffold_8	40258784	40306454	OCAD1_g20419.t1	OCAD1
scaffold_8	40314135	40324713	OCAD2_g20420.t1	OCIAD2
scaffold_8	40281502	40306454	MSTRG.19570.2	OCIAD1
scaffold_8	85123172	85123423	MSTRG.19857.1	OIT3
scaffold_8	20439399	20465404	P4K2B_g20337.t1	PI4K2B
scaffold_8	16599014	16614607	MSTRG.19431.1	PACRG
scaffold_8	44185647	44209086	MSTRG.19616.1	PAICS
scaffold_8	63941626	63960118	PAQR3_g20570.t1	PAQR3
scaffold_8	63938389	63943536	MSTRG.19726.1	PAQR3
scaffold_8	60415355	60511632	PARM1_g20534.t1	PARM1
scaffold_8	74203224	74203706	PCDBB_g20637.t1	PCDBB
scaffold_8	25112321	25511203	MSTRG.19480.1	PCDH7
scaffold_8	25112321	25134387	MSTRG.19480.2	PCDH7
scaffold_8	25116522	25181008	MSTRG.19480.4	PCDH7
scaffold_8	25117186	25447686	MSTRG.19480.5	PCDH7
scaffold_8	25116522	25511203	PCDH7_g20349.t1	PCDH7
scaffold_8	144040	211822	MSTRG.19297.2	PCGF3
scaffold_8	77582414	77801071	PDLI5_g20647.t1	PDLIM5
scaffold_8	77578987	77801071	MSTRG.19800.1	PDLIM5
scaffold_8	77578987	77801071	MSTRG.19800.2	PDLIM5
scaffold_8	77578988	77710575	MSTRG.19800.3	PDLIM5
scaffold_8	32832438	32999978	MSTRG.19514.1	PDS5A
scaffold_8	32832438	32999978	MSTRG.19514.2	PDS5A
scaffold_8	32928497	32999593	MSTRG.19514.4	PDS5A
scaffold_8	32839551	32998734	PDS5A_g20374.t1	PDS5A
scaffold_8	81647460	81656876	MSTRG.19827.2	PEX3
scaffold_8	42292723	42389338	PGFRA_g20432.t1	PDGFRA
scaffold_8	31175005	31208272	MSTRG.19487.1	PGM2
scaffold_8	31175010	31224705	MSTRG.19487.2	PGM2
scaffold_8	31226034	31238646	MSTRG.19489.1	PGM2
scaffold_8	20451630	20458331	MSTRG.19459.1	PI4K2B
scaffold_8	3404	43467	PIGG_g20171.t1	PIGG
scaffold_8	72281076	72281291	PIGY_g20625.t1	PIGY
scaffold_8	71854974	71907816	PKD2_g20621.t1	PKD2
scaffold_8	64565308	64565568	PKHA8_g20574.t1	PLEKHA8
scaffold_8	67563803	67579635	MSTRG.19744.2	PLAC8
scaffold_8	67564035	67566185	PLAC8_g20592.t1	PLAC8
scaffold_8	59545593	59546341	PLF4_g20525.t1	PF4
scaffold_8	53312989	53313267	PLMN_g20466.t1	PLMN
scaffold_8	1554604	1597493	MSTRG.19334.5	POLN
scaffold_8	1565589	1597493	MSTRG.19334.6	POLN
scaffold_8	72100275	72122602	MSTRG.19778.1	PPM1K

scaffold_8	72104148	72116199	PPM1K_g20623.t1	PPM1K
scaffold_8	72100279	72122602	MSTRG.19778.2	PPM1K
scaffold_8	83395798	83717005	MSTRG.19847.1	PPP3CA
scaffold_8	65037627	65041115	PRDM8_g20577.t1	PRDM8
scaffold_8	19209607	19302692	PRGC1_g20329.t1	PPARGC1A
scaffold_8	48100878	48881527	MSTRG.19627.1	PROK2
scaffold_8	48100410	48101030	PRP4B_g20460.t1	PRPF4B
scaffold_8	12834188	12851734	PSG9_g20312.t1	PSG9
scaffold_8	72383665	72443560	PSMD1_g20628.t1	PSMD1
scaffold_8	70664878	70816019	PTN13_g20608.t1	PTPN13
scaffold_8	70609614	70816019	MSTRG.19770.1	PTPN13
scaffold_8	44151201	44185436	PUR1_g20446.t1	PUR1
scaffold_8	44185934	44209086	PUR6_g20447.t1	PUR6
scaffold_8	10052975	10322022	RAB28_g20291.t1	RAB28
scaffold_8	81005001	81170938	MSTRG.19821.2	RAP1GDS1
scaffold_8	81005001	81170938	MSTRG.19821.1	RAP1GDS1
scaffold_8	59310970	59363952	RASF6_g20522.t1	RASF6
scaffold_8	66105353	66140701	MSTRG.19733.1	RASGEF1B
scaffold_8	83687147	83687476	RASL3_g20685.t1	RASL3
scaffold_8	59307604	59363952	MSTRG.19682.2	RASSF6
scaffold_8	59307604	59363952	MSTRG.19682.1	RASSF6
scaffold_8	59309098	59363952	MSTRG.19682.3	RASSF6
scaffold_8	1030794	1031021	MSTRG.19313.1	RBP3
scaffold_8	60782879	60805074	MSTRG.19696.1	RCHY1
scaffold_8	60809365	60823117	MSTRG.19697.1	RCHY1
scaffold_8	31008588	31074986	RELL1_g20358.t1	RELL1
scaffold_8	44508820	44581555	REST_g20453.t1	REST
scaffold_8	44576322	44581555	REST_g20455.t1	REST
scaffold_8	32426170	32488003	MSTRG.19502.3	RFC1
scaffold_8	32438149	32488003	RFC1_g20367.t1	RFC1
scaffold_8	32411827	32488003	MSTRG.19502.1	RFC1
scaffold_8	32412032	32488003	MSTRG.19502.2	RFC1
scaffold_8	66109809	66120844	RGF1B_g20582.t1	RGF1B
scaffold_8	2708039	2718698	MSTRG.19352.3	RGS12
scaffold_8	2625429	2731320	RGS12_g20218.t1	RGS12
scaffold_8	33222489	33223079	RHOH_g20376.t1	RHOH
scaffold_8	44575229	44575693	RL10_g20454.t1	RPL10
scaffold_8	32543423	32547326	RL9_g20369.t1	RPL9
scaffold_8	62992850	63019696	RM01_g20563.t1	MRPL1
scaffold_8	81109037	81169171	RMC1_g20659.t1	RMC1
scaffold_8	56674303	56678790	RN213_g20498.t1	RNF213
scaffold_8	1806949	1842426	MSTRG.19337.1	RNF4
scaffold_8	1806949	1833551	MSTRG.19337.2	RNF4
scaffold_8	1807157	1842426	MSTRG.19337.3	RNF4
scaffold_8	1807174	1842426	MSTRG.19337.4	RNF4

scaffold_8	1821085	1839575	MSTRG.19337.6	RNF4
scaffold_8	1820727	1842426	RNF4_g20208.t1	RNF4
scaffold_8	44609537	44663079	RPB2_g20457.t1	POLR2B
scaffold_8	60001171	60001551	RL37P_g20531.t1	RPL37A
scaffold_8	32542803	32547564	MSTRG.19503.1	RPL9
scaffold_8	41240054	41243391	RSLBB_g20425.t1	RSLBB
scaffold_8	67858704	67864175	RT18C_g20597.t1	MRPS18C
scaffold_8	57065336	57133374	MSTRG.19658.4	RUFY3
scaffold_8	57065654	57132495	MSTRG.19658.7	RUFY3
scaffold_8	57050639	57132692	RUFY3_g20508.t1	RUFY3
scaffold_8	57049785	57133374	MSTRG.19658.1	RUFY3
scaffold_8	57065336	57133374	MSTRG.19658.3	RUFY3
scaffold_8	57065336	57133374	MSTRG.19658.5	RUFY3
scaffold_8	57065424	57133374	MSTRG.19658.6	RUFY3
scaffold_8	25936582	25936953	RXRA_g20350.t1	RXRA
scaffold_8	5115851	5118458	S100P_g20246.t1	S100P
scaffold_8	398375	401485	S26A1_g20182.t1	SLC26A1
scaffold_8	84537883	84623008	S39A8_g20687.t1	SLC39A8
scaffold_8	3742501	3760153	S3TC1_g20231.t1	SH3TC1
scaffold_8	57406315	57700461	S4A4_g20512.t1	SLC4A4
scaffold_8	4456540	4457127	SAPL1_g20238.t1	SAPL1
scaffold_8	57038606	57040030	SAS10_g20507.t1	UTP3
scaffold_8	67316373	67369781	SC31A_g20588.t1	SC31A
scaffold_8	61449777	61451808	MSTRG.19705.1	SCARB2
scaffold_8	67151623	67298422	SCD5_g20587.t1	SCD5
scaffold_8	67150477	67151483	MSTRG.19739.1	SCD5
scaffold_8	41251733	41636928	SCFD2_g20426.t1	SCFD2
scaffold_8	61452482	61513704	SCRB2_g20550.t1	SCARB2
scaffold_8	61225983	61262370	SDA1_g20544.t1	SDAD1
scaffold_8	61219838	61262370	MSTRG.19703.1	SDAD1
scaffold_8	20850802	20945950	SE1L3_g20341.t1	SEL1L3
scaffold_8	67315999	67386266	MSTRG.19746.5	SEC31A
scaffold_8	67315960	67386266	MSTRG.19746.4	SEC31A
scaffold_8	62156836	62238312	SEP11_g20556.t1	SEP11
scaffold_8	62238936	62239163	MSTRG.19713.1	SEPT11
scaffold_8	36853129	36853461	SET1B_g20392.t1	SETD1B
scaffold_8	40626354	40643815	MSTRG.19567.1	SGCB
scaffold_8	2116139	2129194	MSTRG.19339.3	SH3BP2
scaffold_8	3731195	3731752	MSTRG.19358.1	SH3TC1
scaffold_8	61718170	62026899	SHRM3_g20554.t1	SHRM3
scaffold_8	20992218	21005408	SIM20_g20342.t1	SMIM20
scaffold_8	85213092	85213573	MSTRG.19861.1	SIRPB2
scaffold_8	39854028	39908642	SLAI2_g20413.t1	SLAIN2
scaffold_8	39852184	39935897	MSTRG.19553.1	SLAIN2
scaffold_8	1087559	1100893	SLBP_g20195.t1	SLBP

scaffold_8	39990713	39991006	MSTRG.19555.1	SLC10A4
scaffold_8	396320	413701	MSTRG.19303.3	SLC26A1
scaffold_8	84537553	84537754	MSTRG.19852.1	SLC39A8
scaffold_8	85137365	85204166	MSTRG.19862.1	SLC9B1
scaffold_8	85253030	85255293	MSTRG.19863.1	SLC9B2
scaffold_8	85255694	85256151	MSTRG.19864.1	SLC9B2
scaffold_8	16182767	16220803	SLIT2_g20324.t1	SLIT2
scaffold_8	16397596	16539692	SLIT2_g20325.t1	SLIT2
scaffold_8	77361028	77438240	MSTRG.19797.1	SMARCAD1
scaffold_8	77361297	77437709	MSTRG.19797.2	SMARCAD1
scaffold_8	21005710	21005961	MSTRG.19460.1	SMIM20
scaffold_8	77361800	77437709	SMRCD_g20645.t1	SMARCAD1
scaffold_8	70819036	70844648	SOAT_g20609.t1	SOAT
scaffold_8	20075157	20079956	MSTRG.19452.1	SOD3
scaffold_8	20078935	20079956	SODE_g20333.t1	SODE
scaffold_8	4175184	4683736	SORC2_g20235.t1	SORC2
scaffold_8	40655520	40693001	MSTRG.19563.1	SPATA18
scaffold_8	20349729	20380664	SPCS_g20336.t1	SPCS2
scaffold_8	569953	573163	SPON2_g20185.t1	SPON2
scaffold_8	569487	573856	MSTRG.19309.1	SPON2
scaffold_8	71824359	71831915	MSTRG.19773.1	SPP1
scaffold_8	71383443	71445290	SPRL1_g20616.t1	SPARCL1
scaffold_8	44213019	44238387	SRP72_g20448.t1	SRP72
scaffold_8	41152522	41161647	MSTRG.19579.2	SRSF10
scaffold_8	41152522	41161647	MSTRG.19579.3	SRSF10
scaffold_8	41152697	41161647	MSTRG.19579.7	SRSF10
scaffold_8	41152697	41161647	MSTRG.19579.8	SRSF10
scaffold_8	56011173	56024598	ST1B1_g20491.t2	SULT1B1
scaffold_8	53538902	53576590	STAP1_g20468.t2	STAP1
scaffold_8	41152522	41161647	MSTRG.19579.1	STARD9
scaffold_8	41152613	41161647	MSTRG.19579.4	STARD9
scaffold_8	41152613	41161647	MSTRG.19579.5	STARD9
scaffold_8	41152613	41161647	MSTRG.19579.6	STARD9
scaffold_8	61600902	61603841	STBD1_g20552.t1	STBD1
scaffold_8	61603854	61604080	MSTRG.19708.1	STBD1
scaffold_8	61604519	61604839	MSTRG.19709.1	STBD1
scaffold_8	21778776	21928611	STIM2_g20347.t1	STIM2
scaffold_8	80684629	80901405	MSTRG.19820.3	STPG2
scaffold_8	80685569	80901405	MSTRG.19820.4	STPG2
scaffold_8	80865966	80901170	MSTRG.19820.6	STPG2
scaffold_8	80865966	80870991	MSTRG.19820.7	STPG2
scaffold_8	80682229	80901405	STPG2_g20657.t2	STPG2
scaffold_8	3717795	3719593	SHPS1_g20230.t1	STRA6
scaffold_8	6970747	7104996	MSTRG.19380.1	STX18
scaffold_8	6971413	7098573	STX18_g20267.t1	STX18

scaffold_8	21318778	21429448	SUH_g20343.t1	SUH
scaffold_8	62111284	62113662	SWAHB_g20555.t1	SWAHB
scaffold_8	67005843	67029450	T150C_g20586.t1	T150C
scaffold_8	1108014	1123442	MSTRG.19317.1	TACC3
scaffold_8	1109911	1123442	TACC3_g20197.t1	TACC3
scaffold_8	4803045	4817476	TAD2B_g20239.t1	TADA2B
scaffold_8	4800226	4817476	MSTRG.19365.1	TADA2B
scaffold_8	4800431	4817476	MSTRG.19365.2	TADA2B
scaffold_8	12753088	12822338	MSTRG.19413.1	TAPT1
scaffold_8	12758321	12822338	TAPT1_g20311.t1	TAPT1
scaffold_8	4828497	4932309	TBC14_g20241.t1	TBC1D14
scaffold_8	21550010	21686184	TBC19_g20345.t1	TBC1D19
scaffold_8	31269362	31269587	MSTRG.19490.1	TBC1D1
scaffold_8	31331634	31475858	MSTRG.19491.1	TBC1D1
scaffold_8	4825791	4866054	MSTRG.19366.1	TBC1D14
scaffold_8	4825841	4866054	MSTRG.19366.2	TBC1D14
scaffold_8	4825869	4931912	MSTRG.19366.3	TBC1D14
scaffold_8	3544895	3600099	MSTRG.19359.2	TCTN3
scaffold_8	39669933	39801226	MSTRG.19556.2	TEC
scaffold_8	39669933	39801226	MSTRG.19556.1	TEC
scaffold_8	39669976	39689383	MSTRG.19556.3	TEC
scaffold_8	50718711	50884340	TECRL_g20463.t1	TECRL
scaffold_8	60810411	60821520	THAP6_g20536.t1	THAP6
scaffold_8	67396839	67421537	THAP9_g20589.t1	THAP9
scaffold_8	44256792	44324843	THEGL_g20450.t1	THEGL
scaffold_8	40939187	40986311	MSTRG.19581.1	THOC2
scaffold_8	72806794	72810305	MSTRG.19784.1	TIGD1
scaffold_8	72808191	72810305	TIGD2_g20631.t1	TIGD1
scaffold_8	32006766	32050971	MSTRG.19496.1	TLR1
scaffold_8	31985685	31988012	TLR10_g20361.t2	TLR10
scaffold_8	32033992	32050971	MSTRG.19496.5	TLR6
scaffold_8	32034261	32036717	TLR6_g20363.t1	TLR6
scaffold_8	32033441	32044015	MSTRG.19496.4	TLR6
scaffold_8	82097272	82106762	TM10A_g20670.t1	TRMT10A
scaffold_8	7238241	7246541	TM128_g20272.t1	TM128
scaffold_8	1103495	1107334	TM129_g20196.t1	TMEM129
scaffold_8	43273603	43296725	TM165_g20436.t1	TM165
scaffold_8	358182	370744	TM175_g20179.t1	TMEM175
scaffold_8	7238238	7248269	MSTRG.19388.2	TMEM128
scaffold_8	7238235	7248269	MSTRG.19388.1	TMEM128
scaffold_8	1101934	1107392	MSTRG.19316.1	TMEM129
scaffold_8	34681608	34722100	MSTRG.19524.1	TMEM33
scaffold_8	34626351	34681607	TMM33_g20385.t1	TMM33
scaffold_8	2036411	2047349	MSTRG.19342.1	TNIP2
scaffold_8	2039461	2067391	TNIP2_g20210.t1	TNIP2

scaffold_8	4425003	4425281	TNR6C_g20236.t1	TNR6C
scaffold_8	75987917	75997100	MSTRG.19794.1	TNRC6B
scaffold_8	82095564	82112355	MSTRG.19836.1	TRMT10A
scaffold_8	82098790	82105556	MSTRG.19836.3	TRMT10A
scaffold_8	3498018	3529405	MSTRG.19357.1	TRMT44
scaffold_8	63078818	63079342	TSN3_g20565.t1	TSPAN3
scaffold_8	81190176	81348720	TSN5_g20660.t1	TSN5
scaffold_8	63078316	63078673	MSTRG.19721.1	TSPAN3
scaffold_8	81188089	81348720	MSTRG.19824.1	TSPAN5
scaffold_8	81188625	81320851	MSTRG.19824.2	TSPAN5
scaffold_8	41928887	41929094	MSTRG.19592.1	TVP23B
scaffold_8	39610457	39651786	TXK_g20411.t1	TXK
scaffold_8	53583966	53664483	MSTRG.19646.1	UBA6
scaffold_8	53583966	53646210	MSTRG.19646.2	UBA6
scaffold_8	53589567	53595220	MSTRG.19646.4	UBA6
scaffold_8	53607311	53610675	MSTRG.19646.5	UBA6
scaffold_8	85023135	85057483	MSTRG.19858.1	UBE2D3
scaffold_8	32741145	32810142	UBE2K_g20373.t1	UBE2K
scaffold_8	41037225	41099565	UBP46_g20424.t1	UBP46
scaffold_8	34039735	34072312	UCHL1_g20382.t1	UCHL1
scaffold_8	34060281	34072312	MSTRG.19519.2	UCHL1
scaffold_8	55664432	55697376	UD2C1_g20487.t2	UD2C1
scaffold_8	32572446	32599692	MSTRG.19506.1	UGDH
scaffold_8	32593077	32593995	MSTRG.19507.1	UGDH
scaffold_8	32618102	32710761	UGDH_g20371.t2	UGDH
scaffold_8	60996814	61090356	USO1_g20541.t1	USO1
scaffold_8	60996544	61010042	MSTRG.19700.1	USO1
scaffold_8	771259	802940	UVSSA_g20188.t1	UVSSA
scaffold_8	770112	804053	MSTRG.19314.1	UVSSA
scaffold_8	18437759	18437961	MSTRG.19447.1	WDFY3
scaffold_8	68936566	69193764	MSTRG.19762.7	WDFY3
scaffold_8	68936566	69167026	MSTRG.19762.8	WDFY3
scaffold_8	7634389	7636440	MSTRG.19390.1	WDR1
scaffold_8	7621987	7634438	WDR1_g20277.t1	WDR1
scaffold_8	7636342	7666872	WDR1_g20277.t2	WDR1
scaffold_8	32324442	32410944	MSTRG.19500.1	WDR19
scaffold_8	5466598	5491409	WFS1_g20254.t1	WFS1
scaffold_8	1336071	1336527	MSTRG.19321.1	NSD2
scaffold_8	1271425	1312781	MSTRG.19324.4	NSD2
scaffold_8	1271425	1335564	NSD2_g20200.t2	NSD2
scaffold_8	14220159	14247137	YD021_g20321.t1	YD021
scaffold_8	54327284	54364646	MSTRG.19651.1	YTHDC1
scaffold_8	54327331	54364646	MSTRG.19651.2	YTHDC1
scaffold_8	54346394	54364646	MSTRG.19651.5	YTHDC1
scaffold_8	7835844	7839092	Z518B_g20278.t1	ZNF518B

scaffold_8	7178400	7197930	ZBT49_g20269.t1	ZBTB49
scaffold_8	7177994	7205268	MSTRG.19382.1	ZBTB49
scaffold_8	7177994	7205268	MSTRG.19382.2	ZBTB49
scaffold_8	20484685	20525779	MSTRG.19463.1	ZCCHC4
scaffold_8	20525835	20531798	MSTRG.19463.5	ZCCHC4
scaffold_8	20484694	20531374	ZCHC4_g20338.t1	ZCCHC4
scaffold_8	82343980	82372494	ZIC3_g20677.t1	ZIC3
scaffold_8	60783412	60809190	ZN363_g20535.t1	RCHY1
scaffold_8	81350040	81353917	RLMN_g20661.t1	ZNF148
scaffold_8	84076701	84388980	MSTRG.19851.2	ZNF383
scaffold_8	6945188	6945396	MSTRG.19379.1	ZNF555
scaffold_8	34703449	34788734	ZNT9_g20386.t1	SLC30A9
scaffold_9	35088088	35168265	ABCBB_g20941.t1	ABCB11
scaffold_9	4675316	4794677	ABI2_g20732.t1	ABI2
scaffold_9	4675149	4794677	MSTRG.19915.4	ABI2
scaffold_9	72794782	72799415	ACBP_g21080.t1	DBI
scaffold_9	45152389	45272654	MSTRG.20198.1	ACVR1
scaffold_9	27748561	27887477	ADAS_g20869.t1	AGPS
scaffold_9	65190621	65296244	MSTRG.20274.4	AKAP5
scaffold_9	81566154	81580949	MSTRG.20361.1	ALG9
scaffold_9	6046004	6106161	ALS2_g20746.t1	ALS2
scaffold_9	6039632	6063378	MSTRG.19934.4	ALS2
scaffold_9	6064959	6108200	MSTRG.19934.6	ALS2
scaffold_9	6064959	6108200	MSTRG.19934.7	ALS2
scaffold_9	6066194	6108200	MSTRG.19934.8	ALS2
scaffold_9	6100530	6108200	MSTRG.19934.9	ALS2
scaffold_9	6104797	6107384	MSTRG.19935.1	ALS2
scaffold_9	80998266	81006203	AMERL_g21124.t1	AMMECR1L
scaffold_9	80994137	81015523	MSTRG.20351.1	AMMECR1L
scaffold_9	16947313	17017397	ANKAR_g20819.t1	ANKAR
scaffold_9	10458224	10750030	ANR44_g20790.t1	ANKRD44
scaffold_9	6900798	6985456	MSTRG.19952.1	AOX1
scaffold_9	6901418	6913285	MSTRG.19952.2	AOX1
scaffold_9	7291422	7305957	MSTRG.19953.3	AOX1
scaffold_9	7657381	7658165	MSTRG.19958.1	AOX1
scaffold_9	7057796	7305957	AOXA_g20766.t1	AOX1
scaffold_9	7321503	7351549	AOXA_g20767.t1	AOX1
scaffold_9	7616705	7634580	AOXA_g20768.t1	AOX1
scaffold_9	49341836	49378256	AR6P6_g20998.t1	ARL6IP6
scaffold_9	83256476	83332807	ARHG4_g21131.t1	ARHGEF4
scaffold_9	83333517	83477687	ARHG4_g21132.t1	ARHGEF4
scaffold_9	83255178	83268939	MSTRG.20376.1	ARHGEF4
scaffold_9	83255178	83268939	MSTRG.20376.2	ARHGEF4
scaffold_9	83255178	83268939	MSTRG.20376.3	ARHGEF4
scaffold_9	83255179	83268939	MSTRG.20376.4	ARHGEF4

scaffold_9	83255179	83268939	MSTRG.20376.5	ARHGEF4
scaffold_9	83255196	83268939	MSTRG.20376.6	ARHGEF4
scaffold_9	50172825	50194422	ARL5A_g21006.t1	ARL5A
scaffold_9	50194975	50203447	MSTRG.20217.1	ARL5A
scaffold_9	49378329	49378631	ABCA3_g20999.t1	ARL6IP6
scaffold_9	67948656	68009245	ARP3_g21063.t1	ACTR3
scaffold_9	17022995	17027571	ASND1_g20820.t1	ASNSD1
scaffold_9	17022707	17031292	MSTRG.20036.1	ASNSD1
scaffold_9	17022707	17031292	MSTRG.20036.2	ASNSD1
scaffold_9	17022932	17031292	MSTRG.20036.3	ASNSD1
scaffold_9	17022932	17031292	MSTRG.20036.4	ASNSD1
scaffold_9	17022995	17031292	MSTRG.20036.5	ASNSD1
scaffold_9	29837092	29840190	AT5G3_g20892.t1	ATP5MC3
scaffold_9	29880230	29935962	ATF2_g20893.t1	ATF2
scaffold_9	29852261	29935962	MSTRG.20105.1	ATF2
scaffold_9	29852261	29935962	MSTRG.20105.2	ATF2
scaffold_9	77912538	77912749	MSTRG.20332.1	ATP13A4
scaffold_9	29836792	29840190	MSTRG.20099.1	ATP5MC3
scaffold_9	53577846	53630693	AVR2A_g21025.t1	ACVR2A
scaffold_9	43776289	43911189	BAZ2B_g20981.t1	BAZ2B
scaffold_9	43939522	43987338	BAZ2B_g20981.t2	BAZ2B
scaffold_9	43621374	43911189	MSTRG.20193.1	BAZ2B
scaffold_9	43842187	43858525	MSTRG.20193.10	BAZ2B
scaffold_9	43621374	43836143	MSTRG.20193.2	BAZ2B
scaffold_9	43621374	43836143	MSTRG.20193.3	BAZ2B
scaffold_9	43621406	43911189	MSTRG.20193.4	BAZ2B
scaffold_9	43621406	43911189	MSTRG.20193.5	BAZ2B
scaffold_9	43621406	43911189	MSTRG.20193.6	BAZ2B
scaffold_9	43621480	43836143	MSTRG.20193.7	BAZ2B
scaffold_9	43621525	43664526	MSTRG.20193.8	BAZ2B
scaffold_9	43911555	43911847	MSTRG.20194.1	BAZ2B
scaffold_9	34652147	34681956	BBS5_g20938.t1	BBS5
scaffold_9	80235804	80293402	BIN1_g21111.t1	BIN1
scaffold_9	80235298	80293402	MSTRG.20337.1	BIN1
scaffold_9	5354038	5539143	BMPR2_g20739.t1	BMPR2
scaffold_9	6868495	6886577	MSTRG.19951.1	BZW1
scaffold_9	63131568	63131768	MSTRG.20275.1	TSBP1
scaffold_9	80365847	80383744	C27C1_g21112.t1	CYP27C1
scaffold_9	8223317	8239112	MSTRG.19967.2	C2ORF69
scaffold_9	50032147	50161982	CACB4_g21005.t1	CACNB4
scaffold_9	6149743	6168902	MSTRG.19932.1	CAMSAP1
scaffold_9	5076636	5122232	MSTRG.19919.1	CARF
scaffold_9	5079963	5114859	MSTRG.19919.2	CARF
scaffold_9	9752202	9968671	CARM1_g20781.t1	CARM1
scaffold_9	6522112	6559279	MSTRG.19938.1	CASP10

scaffold_9	6458842	6470324	CASP8_g20754.t1	CASP8
scaffold_9	15107145	15118625	CAVN2_g20804.t1	CAVIN2
scaffold_9	507160	507388	MSTRG.19870.1	CBLB
scaffold_9	1700125	1725610	CBPO_g20714.t1	CPO
scaffold_9	83964062	83968075	CC115_g21142.t1	CCDC115
scaffold_9	10955200	10970522	CC150_g20794.t1	CCDC150
scaffold_9	34495838	34530518	CC173_g20934.t2	CFAP210
scaffold_9	71398714	71508434	CCD93_g21071.t1	CCDC93
scaffold_9	83963454	83968075	MSTRG.20385.1	CCDC115
scaffold_9	11018433	11018634	MSTRG.19980.1	CCDC150
scaffold_9	84104295	84116967	MSTRG.20392.1	CCDC85C
scaffold_9	72848911	72854739	CCGL_g21081.t1	TMEM37
scaffold_9	30843445	30847699	MSTRG.20103.1	CCL22
scaffold_9	81621189	81648738	MSTRG.20362.1	CCL22
scaffold_9	81621189	81647298	MSTRG.20362.2	CCL22
scaffold_9	81621214	81633180	MSTRG.20362.3	CCL22
scaffold_9	81621222	81635705	MSTRG.20362.4	CCL22
scaffold_9	65381874	65422613	CCNT2_g21054.t2	CCNT2
scaffold_9	65378292	65422613	MSTRG.20276.1	CCNT2
scaffold_9	65378873	65394573	MSTRG.20276.2	CCNT2
scaffold_9	65378873	65394573	MSTRG.20276.3	CCNT2
scaffold_9	1033416	1069990	MSTRG.19878.1	CCNY
scaffold_9	1033697	1069990	MSTRG.19878.2	CCNY
scaffold_9	43439449	43466504	CD302_g20979.t1	CD302
scaffold_9	43437266	43463377	MSTRG.20188.4	CD302
scaffold_9	31407924	31420098	MSTRG.20116.1	CDCA7
scaffold_9	5953068	6009187	CDK15_g20744.t1	CDK15
scaffold_9	35319177	35638315	CERS6_g20945.t1	CERS6
scaffold_9	48449525	48495729	MSTRG.20204.1	CES4A
scaffold_9	34534981	34535192	MSTRG.20152.1	CFAP99
scaffold_9	83750810	83769605	CFC1_g21136.t1	CFC1
scaffold_9	6567770	6612857	MSTRG.19940.2	CFLAR
scaffold_9	6567770	6613333	MSTRG.19940.3	CFLAR
scaffold_9	6571972	6613333	MSTRG.19940.4	CFLAR
scaffold_9	10310160	10321489	CH60_g20787.t1	HSPD1
scaffold_9	16167008	16167224	MSTRG.20017.1	CHD6
scaffold_9	29985294	30176250	CHIN_g20895.t1	CHN1
scaffold_9	30099923	30176250	MSTRG.20109.2	CHN1
scaffold_9	49636067	49637263	CHPT1_g21002.t1	CHPT1
scaffold_9	30508535	30545551	CIR1_g20898.t1	CIR1
scaffold_9	74672105	74933858	MSTRG.20322.1	CLASP1
scaffold_9	74672259	74933858	MSTRG.20322.2	CLASP1
scaffold_9	74735079	74933858	MSTRG.20322.4	CLASP1
scaffold_9	6840466	6847851	CLK1_g20762.t1	CLK1
scaffold_9	6838870	6847851	MSTRG.19948.1	CLK1

scaffold_9	6838898	6847851	MSTRG.19948.2	CLK1
scaffold_9	78130108	78130374	MSTRG.20326.1	CNTNAP5
scaffold_9	77548916	77708623	MSTRG.20327.1	CNTNAP5
scaffold_9	78127735	78128025	MSTRG.20334.1	CNTNAP5
scaffold_9	77666711	78127629	CNTP5_g21105.t1	CNTNAP5
scaffold_9	17715974	17754088	CO3A1_g20825.t1	COL3A1
scaffold_9	38862254	39014744	COBL1_g20959.t1	COBLL1
scaffold_9	73930529	73938369	COL12_g21093.t1	COLEC12
scaffold_9	17715020	17754088	MSTRG.20042.1	COL3A1
scaffold_9	4810104	4865711	CP20A_g20733.t1	CYP20A1
scaffold_9	2398802	2468802	MSTRG.19908.1	CPEB2
scaffold_9	2398824	2468802	MSTRG.19908.2	CPEB2
scaffold_9	10329789	10345920	CQ10B_g20788.t1	COQ10B
scaffold_9	1164884	1205495	CREB1_g20711.t1	CREB1
scaffold_9	1154784	1224285	MSTRG.19885.1	CREB1
scaffold_9	1195740	1223501	MSTRG.19885.10	CREB1
scaffold_9	1154784	1223501	MSTRG.19885.2	CREB1
scaffold_9	1157898	1224285	MSTRG.19885.3	CREB1
scaffold_9	1159100	1223501	MSTRG.19885.4	CREB1
scaffold_9	1159100	1224285	MSTRG.19885.5	CREB1
scaffold_9	1164525	1224223	MSTRG.19885.6	CREB1
scaffold_9	1164525	1224223	MSTRG.19885.7	CREB1
scaffold_9	741953	743749	CRGC_g20704.t2	CRYGC
scaffold_9	25587364	25634466	CWC22_g20852.t1	CWC22
scaffold_9	25571752	25634466	MSTRG.20071.1	CWC22
scaffold_9	25571803	25593505	MSTRG.20071.2	CWC22
scaffold_9	25571961	25634466	MSTRG.20071.3	CWC22
scaffold_9	25571961	25634466	MSTRG.20071.4	CWC22
scaffold_9	25571961	25634466	MSTRG.20071.5	CWC22
scaffold_9	25583447	25634466	MSTRG.20071.6	CWC22
scaffold_9	64367841	64370979	CXCR4_g21042.t1	CXCR4
scaffold_9	45521234	45546424	CYTIP_g20989.t1	CYTIP
scaffold_9	11952577	12068433	DBR1_g20802.t1	DBR1
scaffold_9	32753698	32811157	DC1I2_g20915.t1	DYNC1I2
scaffold_9	32990268	33030463	MSTRG.20134.1	DCAF17
scaffold_9	71333630	71351027	DDX18_g21069.t3	DDX18
scaffold_9	71333523	71351027	MSTRG.20288.1	DDX18
scaffold_9	71333618	71351027	MSTRG.20288.2	DDX18
scaffold_9	35021787	35049965	MSTRG.20158.1	DHRS9
scaffold_9	23130747	23170007	DJC10_g20839.t1	DNAJC10
scaffold_9	32437273	32439232	DLX2_g20909.t1	DLX2
scaffold_9	11776400	11835594	MSTRG.19993.1	DNAH7
scaffold_9	23129914	23172238	MSTRG.20064.1	DNAJC10
scaffold_9	41508011	41592617	DPP4_g20969.t1	DPP4
scaffold_9	22826006	22852074	DUS19_g20836.t1	DUSP19

scaffold_9	11548236	11776160	DYH7_g20800.t1	DNAH7
scaffold_9	32753047	32812360	MSTRG.20131.1	DYNC1I2
scaffold_9	32753047	32812611	MSTRG.20131.2	DYNC1I2
scaffold_9	73395630	73508396	E41L5_g21086.t1	EPB41L5
scaffold_9	2337238	2339999	EF1B_g20723.t1	EEF1B2
scaffold_9	25635814	25636017	MSTRG.20068.1	CLXN
scaffold_9	73395630	73470599	MSTRG.20307.4	EPB41L5
scaffold_9	73436566	73470599	MSTRG.20307.6	EPB41L5
scaffold_9	73470600	73506240	MSTRG.20307.7	EPB41L5
scaffold_9	73470600	73477516	MSTRG.20307.8	EPB41L5
scaffold_9	52839565	52963561	EPC2_g21019.t1	EPC2
scaffold_9	54182906	54183292	EPO_g21026.t1	EPO
scaffold_9	80418299	80448790	ERCC3_g21113.t1	ERCC3
scaffold_9	80418094	80422446	MSTRG.20339.1	ERCC3
scaffold_9	5237220	5309183	F117B_g20738.t1	FAM117B
scaffold_9	6690907	6739811	F126B_g20758.t1	FAM126B
scaffold_9	83247509	83249804	F168B_g21130.t1	F168B
scaffold_9	19672901	19739308	F171B_g20830.t1	F171B
scaffold_9	34598388	34629817	FAKD1_g20936.t2	FASTKD1
scaffold_9	1837548	1842170	FAKD2_g20716.t1	FAKD2
scaffold_9	67782081	67828634	MSTRG.20287.1	FAM107A
scaffold_9	5233424	5309183	MSTRG.19921.3	FAM117B
scaffold_9	5231299	5309183	MSTRG.19921.1	FAM117B
scaffold_9	5233379	5291830	MSTRG.19921.2	FAM117B
scaffold_9	1837405	1855327	MSTRG.19896.2	FASTKD2
scaffold_9	1837209	1855327	MSTRG.19896.1	FASTKD2
scaffold_9	1837548	1855327	MSTRG.19896.3	FASTKD2
scaffold_9	39903780	40041916	MSTRG.20174.1	FIGN
scaffold_9	39904154	40027761	MSTRG.20174.2	FIGN
scaffold_9	26909273	26917168	FKBP7_g20858.t1	FKBP7
scaffold_9	26909273	26917168	MSTRG.20081.1	FKBP7
scaffold_9	26909370	26913627	MSTRG.20081.3	FKBP7
scaffold_9	84131120	84131433	PAXB1_g21143.t1	FMN2
scaffold_9	49443790	49742431	MSTRG.20212.1	FMNL2
scaffold_9	49443790	49742431	MSTRG.20212.2	FMNL2
scaffold_9	49443794	49742431	MSTRG.20212.3	FMNL2
scaffold_9	75025956	75026273	FRM4B_g21099.t1	FRMD4B
scaffold_9	28428252	28428824	FUCO_g20872.t1	FUCO
scaffold_9	573603	652721	FYV1_g20700.t1	FYV1
scaffold_9	1023417	1029495	FZD5_g20708.t1	FZD5
scaffold_9	1022746	1029495	MSTRG.19874.1	FZD5
scaffold_9	5800933	5802657	FZD7_g20743.t1	FZD7
scaffold_9	48055280	48529677	MSTRG.20203.1	GALNT13
scaffold_9	38018965	38039388	GALT3_g20954.t1	GALT3
scaffold_9	1995083	1995310	GANAB_g20721.t1	GANAB

scaffold_9	5802857	5803418	MSTRG.19930.1	GAREM2
scaffold_9	41207097	41222704	MSTRG.20176.2	GCA
scaffold_9	41205344	41227397	MSTRG.20176.1	GCA
scaffold_9	41424059	41433531	MSTRG.20180.1	GCG
scaffold_9	15903686	15914249	MSTRG.20018.1	GLS
scaffold_9	15933710	15985801	MSTRG.20018.3	GLS
scaffold_9	15907535	15985801	GLSK_g20809.t1	GLS
scaffold_9	48060810	48471880	GLT13_g20995.t1	GALNT13
scaffold_9	4890062	4991360	GLYAL_g20734.t1	GLYAL
scaffold_9	33432664	33452662	MSTRG.20142.2	GORASP2
scaffold_9	33421765	33452662	GORS2_g20922.t1	GORASP2
scaffold_9	30434742	30470571	GP155_g20896.t2	GPR155
scaffold_9	46205576	46343786	MSTRG.20202.1	GPD2
scaffold_9	46208827	46309743	GPDM_g20992.t1	GPD2
scaffold_9	2332573	2333044	MSTRG.19901.1	GPR1
scaffold_9	80811796	80812815	GPR17_g21119.t1	GPR17
scaffold_9	67486949	67675170	GPR39_g21061.t1	GPR39
scaffold_9	41210045	41227397	GRAN_g20964.t1	GCA
scaffold_9	39072218	39196375	GRB14_g20960.t1	GRB14
scaffold_9	39133748	39196375	MSTRG.20171.2	GRB14
scaffold_9	39133748	39196375	MSTRG.20171.3	GRB14
scaffold_9	39133748	39196375	MSTRG.20171.4	GRB14
scaffold_9	39133810	39196375	MSTRG.20171.6	GRB14
scaffold_9	39133757	39196375	MSTRG.20171.5	GRB14
scaffold_9	56852091	57259152	GTDC1_g21028.t1	GTDC1
scaffold_9	18077405	18357450	MSTRG.20043.1	GULP1
scaffold_9	18083845	18357450	MSTRG.20043.3	GULP1
scaffold_9	79866344	79866544	MSTRG.20325.1	GYPC
scaffold_9	81403312	81448172	H6ST1_g21128.t1	H6ST1
scaffold_9	32548837	32617435	HAT1_g20912.t1	HAT1
scaffold_9	32548837	32617435	MSTRG.20128.2	HAT1
scaffold_9	32548837	32617435	MSTRG.20128.1	HAT1
scaffold_9	11230334	11447550	HECW2_g20798.t1	HECW2
scaffold_9	16488486	16586407	MSTRG.20027.1	HIBCH
scaffold_9	62675511	62713825	HNMT_g21037.t1	HNMT
scaffold_9	28027482	28037254	MSTRG.20095.1	HNRNPA3
scaffold_9	28028680	28037254	MSTRG.20095.2	HNRNPA3
scaffold_9	28029242	28037254	MSTRG.20095.3	HNRNPA3
scaffold_9	29013899	29014108	MSTRG.20097.1	HOXD4
scaffold_9	10309074	10321489	MSTRG.19975.2	HSPD1
scaffold_9	29072335	29074131	HXD13_g20888.t2	HOXD13
scaffold_9	29015069	29016392	HXD4_g20880.t1	HXD4
scaffold_9	5155918	5226080	ICA1L_g20737.t1	ICA1L
scaffold_9	5155651	5230027	MSTRG.19920.1	ICA1L
scaffold_9	4209736	4213950	ICOS_g20729.t1	ICOS

scaffold_9	662796	678529	MSTRG.19872.1	IDH1
scaffold_9	662796	678529	MSTRG.19872.2	IDH1
scaffold_9	666025	678529	IDHC_g20701.t1	IDHC
scaffold_9	41248278	41301248	IFIH1_g20966.t1	IFIH1
scaffold_9	41248134	41301248	IFIH1_g20966.t2	IFIH1
scaffold_9	49613855	49722368	MSTRG.20214.1	IKZF3
scaffold_9	15202561	15205902	MSTRG.20007.1	IL-37
scaffold_9	25504504	25504718	MSTRG.20070.1	IL36G
scaffold_9	83957896	83963365	IMP4_g21141.t1	IMP4
scaffold_9	2415146	2466688	IN80D_g20725.t1	INO80D
scaffold_9	73673896	73677550	INHBB_g21091.t1	INHBB
scaffold_9	73670961	73677550	INHBB_g21091.t2	INHBB
scaffold_9	73678331	73679456	MSTRG.20313.1	INHBB
scaffold_9	73671038	73672301	MSTRG.20314.2	INHBB
scaffold_9	2395105	2398786	MSTRG.19907.1	INO80D
scaffold_9	2397234	2399183	MSTRG.19907.2	INO80D
scaffold_9	2398128	2398786	MSTRG.19907.3	INO80D
scaffold_9	2399771	2468802	MSTRG.19908.3	INO80D
scaffold_9	16445288	16458331	INPP_g20813.t1	INPP
scaffold_9	73511268	73511871	INSI1_g21087.t1	INSIG1
scaffold_9	71571727	71590450	MSTRG.20299.1	INSIG2
scaffold_9	72685932	72686172	MSTRG.20298.1	INSIG2
scaffold_9	32095806	32172079	ITA6_g20908.t1	ITA6
scaffold_9	19757783	19841272	ITAV_g20831.t1	ITGAV
scaffold_9	43105128	43173691	ITB6_g20976.t1	ITB6
scaffold_9	32090532	32172079	MSTRG.20125.1	ITGA6
scaffold_9	19771647	19827384	MSTRG.20049.1	ITGAV
scaffold_9	23893220	23930267	ITPI2_g20844.t1	ITPRID2
scaffold_9	80642707	80688529	IWS1_g21116.t1	IWS1
scaffold_9	80655405	80688529	MSTRG.20345.2	IWS1
scaffold_9	5661850	5768140	K2012_g20742.t1	KIAA2012
scaffold_9	15925310	15925522	MSTRG.20020.1	KBTBD11
scaffold_9	7705396	7727452	KCD18_g20771.t1	KCTD18
scaffold_9	7702564	7727452	MSTRG.19959.1	KCTD18
scaffold_9	7702589	7727452	MSTRG.19959.2	KCTD18
scaffold_9	57259946	57260284	MSTRG.20246.1	KDM5C
scaffold_9	5733829	5736811	MSTRG.19931.2	KIAA2012
scaffold_9	1539891	1620282	KLF7_g20712.t1	KLF7
scaffold_9	1621073	1621572	MSTRG.19882.1	KLF7
scaffold_9	1623588	1626185	MSTRG.19890.1	KLF7
scaffold_9	1622665	1623064	MSTRG.19891.1	KLF7
scaffold_9	34451141	34462076	KLH23_g20932.t1	KLHL23
scaffold_9	34634526	34649277	KLH41_g20937.t1	KLH41
scaffold_9	80991794	80992001	MSTRG.20347.1	KLHL32
scaffold_9	58093298	58204467	KYNU_g21030.t1	KYNU

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scaffold_9	29161674	29233437	LNP_g20890.t1	LNPK
scaffold_9	50598594	50598800	MSTRG.20220.1	LOC100146132
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scaffold_9	58841806	60695452	MSTRG.20253.1	LRP1B
scaffold_9	59890258	60695452	MSTRG.20253.5	LRP1B
scaffold_9	58845554	60696721	MSTRG.20253.2	LRP1B
scaffold_9	34793065	34857159	LRP2_g20939.t1	LRP2
scaffold_9	27615527	27615753	MSTRG.20087.1	LY75
scaffold_9	43424400	43463377	MSTRG.20188.2	LY75
scaffold_9	43427194	43463377	MSTRG.20188.3	LY75
scaffold_9	71571771	71590450	MSTRG.20299.2	LY75
scaffold_9	62206576	62206848	M3K1_g21036.t1	MAP3K1
scaffold_9	65322259	65372886	M3K19_g21053.t1	M3K19
scaffold_9	80465198	80497735	M3K2_g21114.t1	MAP3K2
scaffold_9	8187988	8197280	MAIP1_g20773.t1	MAIP1
scaffold_9	32459291	32534453	MAP12_g20911.t1	METAP1D
scaffold_9	80456218	80563832	MSTRG.20341.1	MAP3K2
scaffold_9	31464625	31472796	MSTRG.20117.4	MAP3K20
scaffold_9	31463371	31635276	MSTRG.20117.1	MAP3K20
scaffold_9	31463371	31635276	MSTRG.20117.2	MAP3K20
scaffold_9	31463437	31623529	MSTRG.20117.3	MAP3K20
scaffold_9	31493923	31635276	MSTRG.20117.6	MAP3K20
scaffold_9	31509192	31510342	MSTRG.20117.7	MAP3K20
scaffold_9	32361599	32361804	MSTRG.20126.1	MARCHF1
scaffold_9	43469348	43524425	MSTRG.20190.1	MARCH7
scaffold_9	43469348	43524425	MSTRG.20190.2	MARCHF7
scaffold_9	43470601	43529673	MARH7_g20980.t1	MARCHF7
scaffold_9	10152883	10153107	MSTRG.19969.1	MARS2
scaffold_9	59243673	59360554	MSTRG.20258.1	MASP1
scaffold_9	53088216	53147837	MBD5_g21022.t1	MBD5
scaffold_9	53086924	53496843	MSTRG.20235.2	MBD5
scaffold_9	53086924	53496843	MSTRG.20235.3	MBD5
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scaffold_9	53107850	53496843	MSTRG.20235.5	MBD5
scaffold_9	64574927	64606429	MCM6_g21045.t1	MCM6
scaffold_9	64574887	64606744	MSTRG.20268.1	MCM6
scaffold_9	6598550	6613333	MED19_g20757.t1	MED19
scaffold_9	34396371	34408450	METL5_g20930.t1	METL5
scaffold_9	33055229	33150395	METL8_g20918.t1	METTL8
scaffold_9	1140644	1153321	MSTRG.19884.1	METTL21A
scaffold_9	1140644	1153321	MSTRG.19884.2	METTL21A
scaffold_9	1140727	1153321	MSTRG.19884.3	METTL21A
scaffold_9	34396041	34404115	MSTRG.20155.1	METTL5
scaffold_9	34396041	34408450	MSTRG.20155.2	METTL5

scaffold_9	34396046	34408450	MSTRG.20155.3	METTL5
scaffold_9	16339685	16385699	MFSD6_g20812.t1	MFSD6
scaffold_9	16336948	16408216	MSTRG.20026.1	MFSD6
scaffold_9	66021638	66144331	MSTRG.20281.5	MGAT5
scaffold_9	65815839	66022003	MGT5A_g21057.t1	MGT5A
scaffold_9	74996929	75008415	MK67I_g21098.t1	NIFK
scaffold_9	52131116	52147756	MMAD_g21014.t1	MMADHC
scaffold_9	52130483	52147756	MSTRG.20233.1	MMADHC
scaffold_9	52130484	52147756	MSTRG.20233.2	MMADHC
scaffold_9	1141522	1152791	MT21A_g20710.t1	METTL21A
scaffold_9	28857894	28873223	MTX2_g20875.t1	MTX2
scaffold_9	28857540	28919382	MSTRG.20096.1	MTX2
scaffold_9	28857630	28919382	MSTRG.20096.2	MTX2
scaffold_9	15483535	15666846	MSTRG.20014.1	MYO1B
scaffold_9	15485457	15666846	MSTRG.20014.2	MYO1B
scaffold_9	15486656	15700373	MYO1B_g20806.t1	MYO1B
scaffold_9	33669037	33856663	MSTRG.20144.1	MYO3B
scaffold_9	33857493	34007338	MSTRG.20144.4	MYO3B
scaffold_9	33870498	34007338	MSTRG.20144.5	MYO3B
scaffold_9	34006070	34007613	MSTRG.20144.6	MYO3B
scaffold_9	33731922	34020924	MYO3B_g20927.t1	MYO3B
scaffold_9	80707087	80800468	MSTRG.20346.1	MYO7B
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scaffold_9	16168439	16209911	MSTRG.20022.1	NAB1
scaffold_9	16209305	16228334	MSTRG.20023.1	NAB1
scaffold_9	15247902	15260152	MSTRG.20010.1	NABP1
scaffold_9	15247902	15260152	MSTRG.20010.2	NABP1
scaffold_9	15247902	15260152	MSTRG.20010.3	NABP1
scaffold_9	15247902	15260152	MSTRG.20010.4	NABP1
scaffold_9	15259258	15287260	MSTRG.20011.1	NABP1
scaffold_9	4882222	5036057	MSTRG.19916.1	NBEAL1
scaffold_9	4972969	4991360	MSTRG.19916.3	NBEAL1
scaffold_9	22876240	22975937	MSTRG.20063.1	NCKAP1
scaffold_9	22976499	22976855	MSTRG.20062.1	NCKAP1
scaffold_9	22876250	22975937	MSTRG.20063.2	NCKAP1
scaffold_9	22876574	22975937	MSTRG.20063.4	NCKAP1
scaffold_9	22876567	22975937	NCKP1_g20837.t1	NCKP1
scaffold_9	66663268	67353802	NCKP5_g21059.t1	NCKP5
scaffold_9	6641923	6649159	MSTRG.19942.1	NDUFB3
scaffold_9	6641934	6649159	MSTRG.19942.2	NDUFB3
scaffold_9	16309280	16333213	NEMP2_g20811.t1	NEMP2
scaffold_9	6649248	6745927	MSTRG.19943.2	NEPNP
scaffold_9	16032148	16032357	MSTRG.20016.1	NESP55
scaffold_9	27989812	28031721	NF2L2_g20870.t1	NF2L2
scaffold_9	6810153	6822856	NIF3L_g20760.t1	NIF3L

scaffold_9	6808785	6822908	MSTRG.19946.1	NIF3L1
scaffold_9	6809185	6822908	MSTRG.19946.2	NIF3L1
scaffold_9	74994517	75008415	MSTRG.20318.1	NIFK
scaffold_9	32301948	32302153	MSTRG.20124.1	NMBR
scaffold_9	50647170	50656829	MSTRG.20221.2	NMI
scaffold_9	50647170	50656829	NMI_g21009.t1	NMI
scaffold_9	5583721	5613240	NOP58_g20740.t1	NOP58
scaffold_9	5580872	5613240	MSTRG.19928.2	NOP58
scaffold_9	83893689	83893925	BAKOR_g21139.t1	BAKOR_g21139.t1
scaffold_9	32635970	32723371	CMC1_g20914.t1	CMC1_g20914.t1
scaffold_9	27242009	27252596	CYC2_g20864.t1	CYC2_g20864.t1
scaffold_9	10976962	10977408	DUT_g20797.t1	DUT_g20797.t1
scaffold_9	10972200	10973189	FV1_g20795.t1	FV1_g20795.t1
scaffold_9	802763	987121	MSTRG.19875.2	MSTRG.19875.2
scaffold_9	1113273	1113504	MSTRG.19877.1	MSTRG.19877.1
scaffold_9	1681152	1681352	MSTRG.19893.1	MSTRG.19893.1
scaffold_9	2291886	2329459	MSTRG.19903.3	MSTRG.19903.3
scaffold_9	4426277	4426477	MSTRG.19909.1	MSTRG.19909.1
scaffold_9	4362558	4362758	MSTRG.19911.1	MSTRG.19911.1
scaffold_9	5330382	5539143	MSTRG.19923.1	MSTRG.19923.1
scaffold_9	6034092	6063378	MSTRG.19934.2	MSTRG.19934.2
scaffold_9	6546438	6546661	MSTRG.19939.1	MSTRG.19939.1
scaffold_9	6822974	6835644	MSTRG.19947.1	MSTRG.19947.1
scaffold_9	8877490	8877705	MSTRG.19962.1	MSTRG.19962.1
scaffold_9	11211301	11211527	MSTRG.19981.1	MSTRG.19981.1
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scaffold_9	15021491	15021789	MSTRG.20005.1	MSTRG.20005.1
scaffold_9	14181101	14181303	MSTRG.20008.1	MSTRG.20008.1
scaffold_9	15287616	15287825	MSTRG.20012.1	MSTRG.20012.1
scaffold_9	16309562	16334821	MSTRG.20024.3	MSTRG.20024.3
scaffold_9	16829191	16829403	MSTRG.20028.1	MSTRG.20028.1
scaffold_9	17379668	17649007	MSTRG.20040.2	MSTRG.20040.2
scaffold_9	19747764	19841272	MSTRG.20048.3	MSTRG.20048.3
scaffold_9	21204427	21204636	MSTRG.20051.1	MSTRG.20051.1
scaffold_9	21183116	21183335	MSTRG.20052.1	MSTRG.20052.1
scaffold_9	25826469	25826698	MSTRG.20073.1	MSTRG.20073.1
scaffold_9	26877681	26878681	MSTRG.20076.1	MSTRG.20076.1
scaffold_9	26880867	26881670	MSTRG.20079.1	MSTRG.20079.1
scaffold_9	27626443	27626645	MSTRG.20088.1	MSTRG.20088.1
scaffold_9	27639495	27639705	MSTRG.20089.1	MSTRG.20089.1
scaffold_9	26609966	26610183	MSTRG.20101.1	MSTRG.20101.1
scaffold_9	30437466	30437682	MSTRG.20113.1	MSTRG.20113.1
scaffold_9	31749568	31782698	MSTRG.20121.7	MSTRG.20121.7
scaffold_9	33113980	33114208	MSTRG.20136.1	MSTRG.20136.1
scaffold_9	33149017	33149234	MSTRG.20138.1	MSTRG.20138.1

scaffold_9	34599413	34599644	MSTRG.20154.1	MSTRG.20154.1
scaffold_9	35149175	35149387	MSTRG.20160.1	MSTRG.20160.1
scaffold_9	38055452	38175702	MSTRG.20168.1	MSTRG.20168.1
scaffold_9	38072596	38221885	MSTRG.20168.4	MSTRG.20168.4
scaffold_9	45186283	45238851	MSTRG.20198.2	MSTRG.20198.2
scaffold_9	52062295	52130452	MSTRG.20232.2	MSTRG.20232.2
scaffold_9	54727029	54727236	MSTRG.20236.1	MSTRG.20236.1
scaffold_9	56738530	56792265	MSTRG.20241.4	MSTRG.20241.4
scaffold_9	56669072	56738433	MSTRG.20242.1	MSTRG.20242.1
scaffold_9	57459267	57459484	MSTRG.20248.1	MSTRG.20248.1
scaffold_9	58852206	58912014	MSTRG.20254.1	MSTRG.20254.1
scaffold_9	59196198	59224463	MSTRG.20256.1	MSTRG.20256.1
scaffold_9	64281446	64281673	MSTRG.20264.1	MSTRG.20264.1
scaffold_9	66729569	66729788	MSTRG.20278.1	MSTRG.20278.1
scaffold_9	67036992	67037196	MSTRG.20279.1	MSTRG.20279.1
scaffold_9	65809970	66144331	MSTRG.20281.2	MSTRG.20281.2
scaffold_9	65809970	65929537	MSTRG.20281.3	MSTRG.20281.3
scaffold_9	71415427	71415652	MSTRG.20293.1	MSTRG.20293.1
scaffold_9	72689528	72689728	MSTRG.20296.1	MSTRG.20296.1
scaffold_9	73108131	73108339	MSTRG.20304.1	MSTRG.20304.1
scaffold_9	73389660	73461884	MSTRG.20307.3	MSTRG.20307.3
scaffold_9	77551856	77552059	MSTRG.20328.1	MSTRG.20328.1
scaffold_9	77573526	77573758	MSTRG.20329.1	MSTRG.20329.1
scaffold_9	78024453	78024659	MSTRG.20333.1	MSTRG.20333.1
scaffold_9	80449004	80495358	MSTRG.20340.2	MSTRG.20340.2
scaffold_9	80857406	80960907	MSTRG.20348.2	MSTRG.20348.2
scaffold_9	81390945	81448172	MSTRG.20356.2	MSTRG.20356.2
scaffold_9	81637143	81648738	MSTRG.20362.5	MSTRG.20362.5
scaffold_9	82912905	82913129	MSTRG.20365.1	MSTRG.20365.1
scaffold_9	83099746	83174316	MSTRG.20373.1	MSTRG.20373.1
scaffold_9	83946878	83947751	MSTRG.20377.1	MSTRG.20377.1
scaffold_9	83363848	83364064	MSTRG.20380.1	MSTRG.20380.1
scaffold_9	52060558	52127878	MTNA_g21013.t1	MTNA_g21013.t1
scaffold_9	25399003	25571679	PARP8_g20851.t1	PARP8_g20851.t1
scaffold_9	7644920	7645339	RGS2_g20770.t1	RGS2_g20770.t1
scaffold_9	42851164	42851574	THUM1_g20974.t1	THUM1_g20974.t1
scaffold_9	481084	481350	MSTRG.19869.1	NOTHING
scaffold_9	802763	993231	MSTRG.19875.1	NOTHING
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scaffold_9	1537775	1539222	MSTRG.19881.1	NOTHING
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scaffold_9	1224450	1249963	MSTRG.19887.1	NOTHING
scaffold_9	1282763	1299621	MSTRG.19888.1	NOTHING
scaffold_9	1300810	1301011	MSTRG.19889.1	NOTHING

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scaffold_9	2253720	2255845	MSTRG.19898.1	NOTHING
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scaffold_9	2290367	2291884	MSTRG.19902.2	NOTHING
scaffold_9	2291462	2329459	MSTRG.19903.1	NOTHING
scaffold_9	2291673	2329459	MSTRG.19903.2	NOTHING
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scaffold_9	2292820	2329459	MSTRG.19903.5	NOTHING
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scaffold_9	46437175	46440487	MSTRG.20199.6	NR4A2
scaffold_9	46435495	46440487	NR4A2_g20994.t1	NR4A2
scaffold_9	46435495	46440487	NR4A2_g20994.t2	NR4A2
scaffold_9	46432742	46440487	MSTRG.20199.1	NR4A2
scaffold_9	46432937	46440487	MSTRG.20199.2	NR4A2
scaffold_9	2652521	2746550	NRP2_g20726.t1	NRP2
scaffold_9	22779569	22806934	NUP35_g20835.t1	NUP35
scaffold_9	61961461	62070765	NXPH2_g21034.t1	NXPH2
scaffold_9	30619051	30793409	OLA1_g20900.t1	OLA1
scaffold_9	56904617	56904841	MSTRG.20245.1	OR5H47P
scaffold_9	6760156	6807005	ORC2_g20759.t1	ORC2
scaffold_9	6760123	6807005	ORC2_g20759.t2	ORC2
scaffold_9	6752931	6807005	MSTRG.19945.1	ORC2
scaffold_9	53497219	53577144	MSTRG.20237.1	ORC4
scaffold_9	53497226	53577144	MSTRG.20237.2	ORC4
scaffold_9	53497234	53572320	MSTRG.20237.3	ORC4
scaffold_9	53537985	53572320	ORC4_g21024.t1	ORC4
scaffold_9	16915684	16926658	OSGP2_g20818.t1	ORMDL1
scaffold_9	16913901	16927111	MSTRG.20030.1	ORMDL1
scaffold_9	26968383	27049073	OSBL6_g20861.t1	OSBL6
scaffold_9	16934532	16947263	MSTRG.20031.2	OSGEPL1

scaffold_9	16935032	16943667	OSGP2_g20818.t2	OSGEPL1
scaffold_9	73928255	73930475	PACS1_g21092.t1	SCYL3
scaffold_9	26927965	26946522	MSTRG.20083.2	PACT
scaffold_9	53147844	53317658	PANKY_g21023.t1	PANKY
scaffold_9	2795181	3718577	PAR3L_g20727.t1	PAR3L
scaffold_9	43988802	43989150	MSTRG.20191.1	PCDHA2
scaffold_9	72947153	73042575	PCDP1_g21083.t1	PCDP1
scaffold_9	27273883	27274908	PDE11_g20865.t1	PDE11
scaffold_9	27481402	27673289	PDE11_g20866.t1	PDE11
scaffold_9	32046016	32073223	PDK1_g20907.t1	PDK1
scaffold_9	28037546	28051670	MSTRG.20093.1	PEX3
scaffold_9	28037578	28145589	MSTRG.20093.2	PEX3
scaffold_9	31806178	31831300	MSTRG.20122.1	PGM2
scaffold_9	10261846	10296522	PHOCN_g20785.t1	MOB4
scaffold_9	10306942	10308571	PHOCN_g20785.t2	MOB4
scaffold_9	34477972	34483515	MSTRG.20150.1	PHOSPHO2
scaffold_9	34477987	34481017	MSTRG.20150.3	PHOSPHO2
scaffold_9	587502	597482	MSTRG.19873.7	PIKFYVE
scaffold_9	570497	655295	MSTRG.19873.1	PIKFYVE
scaffold_9	570497	653364	MSTRG.19873.2	PIKFYVE
scaffold_9	570541	655698	MSTRG.19873.3	PIKFYVE
scaffold_9	570822	655698	MSTRG.19873.4	PIKFYVE
scaffold_9	26920508	26926114	PJVK_g20859.t1	PJVK
scaffold_9	26885103	26906979	PKHA3_g20857.t1	PLEKHA3
scaffold_9	830195	973068	PKHM3_g20705.t1	PLEKHM3
scaffold_9	44442816	44682878	MSTRG.20197.4	PKP4
scaffold_9	44442858	44682878	MSTRG.20197.5	PKP4
scaffold_9	44442810	44682878	MSTRG.20197.1	PKP4
scaffold_9	44442810	44682878	MSTRG.20197.2	PKP4
scaffold_9	44442816	44682878	MSTRG.20197.3	PKP4
scaffold_9	44499258	44682878	MSTRG.20197.7	PKP4
scaffold_9	43198110	43308286	PLA2R_g20977.t1	PLA2R
scaffold_9	83114762	83174316	MSTRG.20373.3	PLEKHB2
scaffold_9	973718	979719	MSTRG.19875.5	PLEKHM3
scaffold_9	16837249	16909678	MSTRG.20029.1	PMS1
scaffold_9	16837249	16912969	MSTRG.20029.2	PMS1
scaffold_9	16837249	16907635	PMS1_g20817.t1	PMS1
scaffold_9	80980592	80987268	MSTRG.20350.1	POLR2D
scaffold_9	80980610	80990766	MSTRG.20350.2	POLR2D
scaffold_9	29017316	29030585	PPHLN_g20881.t2	PPHLN1
scaffold_9	34543245	34582396	MSTRG.20148.3	PPIG
scaffold_9	68681824	68682042	MSTRG.20286.1	PPIG
scaffold_9	34538692	34568233	PPIG_g20935.t1	PPIG
scaffold_9	34536380	34536728	MSTRG.20147.1	PPIG
scaffold_9	34538692	34582520	MSTRG.20148.1	PPIG

scaffold_9	6823923	6833826	PPIL3_g20761.t1	PPIL3
scaffold_9	23736862	23847215	PPR1C_g20843.t1	PPR1C
scaffold_9	66110508	66111492	PR14L_g21058.t1	PR14L
scaffold_9	49379502	49441316	PR40A_g21000.t1	PR40A
scaffold_9	49379265	49441316	PR40A_g21000.t2	PR40A
scaffold_9	26927965	26946522	MSTRG.20083.1	PRKRA
scaffold_9	26928297	26946522	PRKRA_g20860.t1	PRKRA
scaffold_9	49378420	49441708	MSTRG.20208.1	PRPF40A
scaffold_9	49378420	49441316	MSTRG.20208.2	PRPF40A
scaffold_9	49378890	49441316	MSTRG.20208.3	PRPF40A
scaffold_9	42044931	42117062	PSDE_g20972.t1	PSMD14
scaffold_9	42044641	42138424	MSTRG.20181.1	PSMD14
scaffold_9	83073010	83073239	MSTRG.20369.1	PTGIR
scaffold_9	438835	533091	PTH2R_g20698.t1	PTH2R
scaffold_9	67941290	67941500	MSTRG.20284.1	PTK2B
scaffold_9	83927350	83944906	PTN18_g21140.t1	PTPN18
scaffold_9	73187900	73359040	PTN4_g21085.t1	PTN4
scaffold_9	19905159	19905363	MSTRG.20047.1	PTPDC1
scaffold_9	73144473	73256247	MSTRG.20305.3	PTPN4
scaffold_9	73143830	73363579	MSTRG.20305.1	PTPN4
scaffold_9	73144110	73359695	MSTRG.20305.2	PTPN4
scaffold_9	64736289	64847621	R3HD1_g21049.t1	R3HDM1
scaffold_9	64735274	64917269	MSTRG.20271.1	R3HDM1
scaffold_9	64735274	64917269	MSTRG.20271.2	R3HDM1
scaffold_9	64735323	64917269	MSTRG.20271.4	R3HDM1
scaffold_9	64736289	64917269	MSTRG.20271.5	R3HDM1
scaffold_9	64735292	64917269	MSTRG.20271.3	R3HDM1
scaffold_9	65183829	65296244	MSTRG.20274.1	RAB3GAP1
scaffold_9	65185322	65296244	MSTRG.20274.2	RAB3GAP1
scaffold_9	73586262	73629012	MSTRG.20312.1	RALB
scaffold_9	73586292	73629012	MSTRG.20312.7	RALB
scaffold_9	73612109	73629012	RALB_g21089.t1	RALB
scaffold_9	73586262	73629012	MSTRG.20312.2	RALB
scaffold_9	73586262	73629012	MSTRG.20312.3	RALB
scaffold_9	73586262	73629012	MSTRG.20312.4	RALB
scaffold_9	73586272	73629012	MSTRG.20312.5	RALB
scaffold_9	73586292	73629012	MSTRG.20312.6	RALB
scaffold_9	31653333	31870654	MSTRG.20121.1	RAPGEF4
scaffold_9	31653333	31782698	MSTRG.20121.2	RAPGEF4
scaffold_9	31653333	31870654	MSTRG.20121.3	RAPGEF4
scaffold_9	31653338	31870654	MSTRG.20121.4	RAPGEF4
scaffold_9	31738245	31870654	MSTRG.20121.6	RAPGEF4
scaffold_9	4664949	4794677	MSTRG.19915.1	RAPH1
scaffold_9	4664949	4706764	MSTRG.19915.2	RAPH1
scaffold_9	4664949	4794677	MSTRG.19915.3	RAPH1

scaffold_9	4602251	4667660	RAPH1_g20731.t1	RAPH1
scaffold_9	65188296	65296244	RB3GP_g21052.t1	RB3GP
scaffold_9	50665426	50677442	MSTRG.20227.1	RBM43
scaffold_9	27218508	27233438	MSTRG.20085.1	RBM45
scaffold_9	27218508	27233438	MSTRG.20085.2	RBM45
scaffold_9	27218917	27233438	MSTRG.20085.3	RBM45
scaffold_9	27221413	27233438	RBM45_g20862.t1	RBM45
scaffold_9	42827078	43033955	MSTRG.20186.1	RBMS1
scaffold_9	42827103	43033955	MSTRG.20186.2	RBMS1
scaffold_9	42906920	43033955	MSTRG.20186.3	RBMS1
scaffold_9	42906920	43033955	MSTRG.20186.4	RBMS1
scaffold_9	42906942	43033955	MSTRG.20186.5	RBMS1
scaffold_9	42906942	43032472	MSTRG.20186.6	RBMS1
scaffold_9	42907310	43030592	RBMS1_g20975.t1	RBMS1
scaffold_9	28991423	28992213	RECR_g20877.t1	RECR
scaffold_9	2290362	2291742	MSTRG.19902.1	REP15
scaffold_9	10174160	10241759	RFTN2_g20784.t1	RFTN2
scaffold_9	10173666	10210888	MSTRG.19971.1	RFTN2
scaffold_9	81611401	81621088	MSTRG.20361.7	RGS17
scaffold_9	57403579	57988880	RHG15_g21029.t1	RHG15
scaffold_9	50481668	50542178	MSTRG.20222.2	RIF1
scaffold_9	50481711	50542255	MSTRG.20222.6	RIF1
scaffold_9	50481668	50542178	MSTRG.20222.1	RIF1
scaffold_9	50481693	50542178	MSTRG.20222.3	RIF1
scaffold_9	50481693	50542178	MSTRG.20222.4	RIF1
scaffold_9	50481711	50542255	MSTRG.20222.5	RIF1
scaffold_9	33195952	33196272	RL36A_g20920.t1	RPL36A
scaffold_9	51362363	51381639	RND3_g21012.t1	RND3
scaffold_9	28031842	28037254	ROA3_g20871.t1	ROA3
scaffold_9	31654193	31741679	RPGF4_g20906.t1	RAPGEF4
scaffold_9	25396809	25397137	MSTRG.20066.1	RPS2
scaffold_9	76927142	76928119	RT35_g21103.t1	MRPS35
scaffold_9	67791272	67826947	S35F5_g21062.t1	SLC35F5
scaffold_9	38744295	38800348	S38AB_g20958.t1	SLC38A11
scaffold_9	17115886	17136097	S40A1_g20821.t1	SLC40A1
scaffold_9	81103349	81181756	MSTRG.20352.1	SAP130
scaffold_9	81103349	81181756	MSTRG.20352.2	SAP130
scaffold_9	8598618	8732989	SATB2_g20778.t1	SATB2
scaffold_9	8741881	8782493	SATB2_g20779.t1	SATB2
scaffold_9	38089750	38227626	SCN2A_g20956.t1	SCN2A
scaffold_9	38551107	38632186	SCN3A_g20957.t1	SCN3A
scaffold_9	37553433	37637154	SCN9A_g20951.t1	SCN9A
scaffold_9	30475720	30506217	SCRN3_g20897.t1	SCRN3
scaffold_9	30475425	30508192	MSTRG.20114.1	SCRN3
scaffold_9	72857406	72932339	SCTR_g21082.t1	SCTR

scaffold_9	18318454	18333040	MSTRG.20044.1	SEH1L
scaffold_9	41332729	41404112	SEPR_g20967.t1	SEPR
scaffold_9	26248321	26349079	SESD1_g20854.t1	SESTD1
scaffold_9	26224342	26349079	MSTRG.20074.2	SESTD1
scaffold_9	26224342	26349079	MSTRG.20074.1	SESTD1
scaffold_9	26224342	26349079	MSTRG.20074.3	SESTD1
scaffold_9	10399560	10400555	MSTRG.19977.1	SF3B1
scaffold_9	10362196	10399258	MSTRG.19978.1	SF3B1
scaffold_9	10362204	10399258	MSTRG.19978.2	SF3B1
scaffold_9	10373884	10399258	SF3B1_g20789.t1	SF3B1
scaffold_9	23024283	23056641	SFRP3_g20838.t2	FRZB
scaffold_9	7658307	7683650	MSTRG.19956.3	SGO2
scaffold_9	7639880	7687585	SGO2_g20769.t1	SGO2
scaffold_9	7639843	7684003	MSTRG.19956.1	SGO2
scaffold_9	32664461	32667586	MSTRG.20129.2	SLC25A12
scaffold_9	32723389	32723603	MSTRG.20130.1	SLC25A12
scaffold_9	11835571	11863369	MSTRG.19994.1	SLC39A10
scaffold_9	11835571	11863369	MSTRG.19994.2	SLC39A10
scaffold_9	11835651	12068433	MSTRG.19994.3	SLC39A10
scaffold_9	11835731	11863369	MSTRG.19994.4	SLC39A10
scaffold_9	17115575	17180158	MSTRG.20035.1	SLC40A1
scaffold_9	17180605	17184530	MSTRG.20037.1	SLC40A1
scaffold_9	16591430	16591717	SMAKA_g20815.t1	SMAKA
scaffold_9	5569981	5573561	MSTRG.19927.1	SMARCC2
scaffold_9	65058918	65059150	MSTRG.20273.1	SMYD5
scaffold_9	15252625	15259876	SOSB2_g20805.t1	SOSB2
scaffold_9	81104123	81180879	SP130_g21125.t1	SP130
scaffold_9	30892539	30947591	SP3_g20901.t1	SP3
scaffold_9	30891947	30947591	MSTRG.20107.1	SP3
scaffold_9	30891947	30947591	MSTRG.20107.2	SP3
scaffold_9	7736286	7903214	MSTRG.19960.3	SPATS2L
scaffold_9	7736279	7902094	MSTRG.19960.1	SPATS2L
scaffold_9	7736279	7903214	MSTRG.19960.2	SPATS2L
scaffold_9	35205966	35214848	MSTRG.20161.1	SPC25
scaffold_9	35206979	35221949	SPC25_g20943.t1	SPC25
scaffold_9	35206889	35221949	SPC25_g20943.t2	SPC25
scaffold_9	35205970	35221949	MSTRG.20161.2	SPC25
scaffold_9	62171845	62188904	SPOPL_g21035.t2	SPOPL
scaffold_9	62167710	62230931	MSTRG.20269.1	SPOPL
scaffold_9	62167813	62230931	MSTRG.20269.2	SPOPL
scaffold_9	7736767	7827807	SPS2L_g20772.t1	SPATS2L
scaffold_9	29984846	29985202	SPT25_g20894.t1	SPT25
scaffold_9	34408378	34418639	MSTRG.20156.1	SSB
scaffold_9	23891307	23930267	MSTRG.20065.1	SSFA2
scaffold_9	23891475	23930267	MSTRG.20065.2	SSFA2

scaffold_9	11483719	11504418	ST17B_g20799.t1	STK17B
scaffold_9	49851519	49894366	STAM2_g21003.t1	STAM2
scaffold_9	49894695	49895456	MSTRG.20209.1	STAM2
scaffold_9	15861993	15902968	MSTRG.20015.1	STAT1
scaffold_9	15861993	15902968	MSTRG.20015.2	STAT1
scaffold_9	15862027	15902968	MSTRG.20015.3	STAT1
scaffold_9	15862027	15902968	MSTRG.20015.4	STAT1
scaffold_9	15865372	15902968	STAT1_g20808.t1	STAT1
scaffold_9	72641396	72685548	MSTRG.20297.2	STEAP3
scaffold_9	11474020	11504418	MSTRG.19984.1	STK17B
scaffold_9	11502683	11506762	MSTRG.19985.1	STK17B
scaffold_9	35806288	36082454	STK39_g20946.t1	STK39
scaffold_9	6296490	6320954	STRAB_g20751.t1	STRADB
scaffold_9	6295862	6324468	MSTRG.19933.1	STRADB
scaffold_9	5634657	5658118	SUMO1_g20741.t1	SUMO1
scaffold_9	64486319	64547737	SYDC_g21044.t1	DARS1
scaffold_9	10153279	10155120	SYMM_g20783.t2	MARS2
scaffold_9	73558878	73559930	T185B_g21088.t1	T185B
scaffold_9	43989877	44222054	MSTRG.20196.2	TANC1
scaffold_9	43989885	44222054	MSTRG.20196.3	TANC1
scaffold_9	43989770	44222054	MSTRG.20196.1	TANC1
scaffold_9	43991172	44040101	MSTRG.20196.4	TANC1
scaffold_9	44014975	44222054	MSTRG.20196.5	TANC1
scaffold_9	42182485	42268934	TANK_g20973.t1	TANK
scaffold_9	42195484	42267670	MSTRG.20183.2	TANK
scaffold_9	42032088	42039773	TBR1_g20971.t1	TBR1
scaffold_9	14776431	14786842	TEFF2_g20803.t1	TMEFF2
scaffold_9	74553643	74608283	TF2L1_g21095.t1	TF2L1
scaffold_9	10904980	10935319	TF3C3_g20793.t1	GTF3C3
scaffold_9	74553132	74608283	MSTRG.20317.1	TFCP2L1
scaffold_9	19001680	19079098	MSTRG.20045.1	TFPI
scaffold_9	19001759	19071010	MSTRG.20045.2	TFPI
scaffold_9	19039545	19079098	TFPI1_g20827.t1	TFPI1
scaffold_9	4584118	4602385	MSTRG.19914.3	THEM4
scaffold_9	18079233	18197333	GULP1_g20826.t1	TIGD1
scaffold_9	84122635	84123694	MSTRG.20388.1	TIGD1
scaffold_9	26423746	26560776	TITIN_g20855.t1	TTN
scaffold_9	33247851	33406996	MSTRG.20140.4	TLK1
scaffold_9	33198797	33402762	TLK1_g20921.t1	TLK1
scaffold_9	33247708	33407560	MSTRG.20140.2	TLK1
scaffold_9	33247708	33406996	MSTRG.20140.3	TLK1
scaffold_9	83036106	83036410	MSTRG.20368.1	TLR12
scaffold_9	73065748	73066683	TM177_g21084.t1	TMEM177
scaffold_9	6150475	6168902	TM237_g20748.t1	TM237
scaffold_9	14775907	15008665	MSTRG.20009.1	TMEFF2

scaffold_9	14776038	14872680	MSTRG.20009.2	TMEFF2
scaffold_9	73559932	73565048	MSTRG.20311.1	TMEM185B
scaffold_9	6159548	6165687	MSTRG.19932.3	TMEM237
scaffold_9	6324755	6389047	MSTRG.19936.1	TRAK2
scaffold_9	6351136	6387034	TRAK2_g20752.t1	TRAK2
scaffold_9	59890258	60695452	TRIO_g21033.t1	TRIO
scaffold_9	19747304	19790416	MSTRG.20048.1	TRNAU1AP
scaffold_9	19747304	19841272	MSTRG.20048.2	TRNAU1AP
scaffold_9	53658636	53658865	MSTRG.20240.1	TROVE2
scaffold_9	50567302	50587712	TSG6_g21008.t1	TSG6
scaffold_9	75026154	75034368	TSN_g21100.t1	TSN
scaffold_9	37850766	37923619	TT21B_g20953.t1	TT21B
scaffold_9	27677017	27679014	TT30A_g20867.t1	TTC30A
scaffold_9	27734540	27736538	TT30B_g20868.t2	TTC30B
scaffold_9	37850662	37888463	MSTRG.20167.1	TTC21B
scaffold_9	73660147	73667754	TTC28_g21090.t1	TTC28
scaffold_9	26609633	26668707	MSTRG.20100.3	TTN
scaffold_9	26595092	26865723	MSTRG.20100.1	TTN
scaffold_9	8197304	8217981	MSTRG.19966.1	TYW5
scaffold_9	8197590	8229125	MSTRG.19966.2	TYW5
scaffold_9	8197613	8223260	MSTRG.19966.3	TYW5
scaffold_9	8217870	8239112	MSTRG.19967.1	TYW5
scaffold_9	8197613	8217981	TYW5_g20774.t1	TYW5
scaffold_9	24685208	24768236	MSTRG.20067.1	UBE2E3
scaffold_9	34132035	34375091	MSTRG.20146.2	UBR3
scaffold_9	34134264	34375091	MSTRG.20146.4	UBR3
scaffold_9	34136625	34274735	UBR3_g20928.t1	UBR3
scaffold_9	34132035	34375091	MSTRG.20146.1	UBR3
scaffold_9	34132035	34375091	MSTRG.20146.3	UBR3
scaffold_9	64680034	64714455	UBXN4_g21048.t1	UBXN4
scaffold_9	81241969	81356572	MSTRG.20355.1	UGGT1
scaffold_9	81242140	81242976	MSTRG.20355.3	UGGT1
scaffold_9	81242977	81315714	MSTRG.20355.4	UGGT1
scaffold_9	83789971	83790266	MSTRG.20381.1	UHRF1BP1L
scaffold_9	80869693	80930849	WDR33_g21122.t1	WDR33
scaffold_9	17280855	17312021	WDR75_g20822.t1	WDR75
scaffold_9	17280690	17292319	MSTRG.20038.1	WDR75
scaffold_9	43937126	43987338	MSTRG.20192.3	WDSUB1
scaffold_9	43936823	43987338	MSTRG.20192.1	WDSUB1
scaffold_9	43937126	43987338	MSTRG.20192.2	WDSUB1
scaffold_9	21473261	21473489	MSTRG.20057.1	XKR4
scaffold_9	25788086	26092764	Z385B_g20853.t1	Z385B
scaffold_9	81574304	81621088	MSTRG.20361.5	ZBED3
scaffold_9	81574299	81621088	MSTRG.20361.2	ZBED3
scaffold_9	81574300	81621088	MSTRG.20361.3	ZBED3

scaffold_9	81574304	81621088	MSTRG.20361.4	ZBED3
scaffold_9	19908941	19935491	MSTRG.20050.2	ZC3H15
scaffold_9	19914283	19935491	ZC3HF_g20832.t1	ZC3H15
scaffold_9	2229345	2229626	MSTRG.19894.1	ZDBF2
scaffold_9	2231254	2231484	MSTRG.19895.1	ZDBF2
scaffold_9	2235681	2263724	MSTRG.19897.1	ZDBF2
scaffold_9	56663752	56810617	MSTRG.20241.1	ZEB2
scaffold_9	56663763	56792265	MSTRG.20241.2	ZEB2
scaffold_9	56666766	56792265	ZEB2_g21027.t1	ZEB2
scaffold_9	83948170	83948408	MSTRG.20378.1	ZFHX3
scaffold_9	25897268	26092764	MSTRG.20072.2	ZNF385B
scaffold_9	73923443	73928254	MSTRG.20315.1	ZNF592
scaffold_9	73923467	73928899	MSTRG.20315.2	ZNF592
scaffold_9	73927641	73930475	MSTRG.20315.3	ZNF592
scaffold_9	2256686	2256967	MSTRG.19899.1	ZNF785
scaffold_9	75169097	75175830	MSTRG.20321.1	ZNF804A
scaffold_9	64883331	65159484	ZRAB3_g21051.t1	ZRANB3
scaffold_9	65145425	65159484	MSTRG.20272.3	ZRANB3
scaffold_mito	8073	12832	MSTRG.21650.1	MSTRG.21650.1
scaffold_mito	14104	15720	MSTRG.21651.1	MSTRG.21651.1
scaffold_mito	26	849	MSTRG.21645.1	NOTHING
scaffold_mito	4412	5016	MSTRG.21647.1	NOTHING
scaffold_mito	13086	13717	MSTRG.21649.1	NOTHING
scaffold_mito	16156	16368	MSTRG.21652.1	NOTHING
scaffold_mito	7209	7505	NU4LM_g22444.t1	NU4LM
scaffold_X	61303856	61427031	ABCB7_g21499.t1	ABCB7
scaffold_X	128424528	128442913	ABCD1_g21883.t1	ABCD1
scaffold_X	128443414	128443718	MSTRG.21057.1	ABCD1
scaffold_X	16424287	16447810	ACOT9_g21232.t1	ACOT9
scaffold_X	93535722	93621597	MSTRG.20879.1	ACSL4
scaffold_X	93535722	93621597	MSTRG.20879.2	ACSL4
scaffold_X	32015010	32015218	MSTRG.20537.1	ADAM19
scaffold_X	127813224	127813833	PNM6A_g21864.t1	ADAMTSL2
scaffold_X	101539890	101542388	ADT2_g21692.t1	SLC25A5
scaffold_X	124319089	124754532	AFF2_g21838.t1	AFF2
scaffold_X	124318632	124750357	MSTRG.21027.1	AFF2
scaffold_X	124318804	124787460	MSTRG.21027.3	AFF2
scaffold_X	87083128	87092456	AGAL_g21580.t1	GLA
scaffold_X	98944935	98947340	AGTR2_g21675.t1	AGTR2
scaffold_X	98943323	98947340	MSTRG.20897.1	AGTR2
scaffold_X	110124295	110156332	AIFM1_g21743.t1	AIFM1
scaffold_X	101394987	101395200	MSTRG.20911.1	AKAP17BP
scaffold_X	40328909	40332698	MSTRG.20622.2	ALAS2
scaffold_X	95299951	95309493	ALG13_g21660.t1	ALG13
scaffold_X	95320374	95362576	ALG13_g21661.t1	ALG13

scaffold_X	95299911	95314983	MSTRG.20888.1	ALG13
scaffold_X	95299911	95362576	MSTRG.20888.2	ALG13
scaffold_X	95299990	95362576	MSTRG.20888.4	ALG13
scaffold_X	95300407	95362576	MSTRG.20888.5	ALG13
scaffold_X	95300566	95362576	MSTRG.20888.6	ALG13
scaffold_X	95300566	95312539	MSTRG.20888.7	ALG13
scaffold_X	51937525	51940932	AMER1_g21432.t1	AMER1
scaffold_X	51936343	51936551	MSTRG.20664.1	AMER1
scaffold_X	94030934	94122597	MSTRG.20882.1	AMMECR1
scaffold_X	94035199	94137914	AMMR1_g21646.t1	AMMECR1
scaffold_X	96102715	96142924	AMOT_g21666.t1	AMOT
scaffold_X	54631946	54792404	ANDR_g21445.t1	AR
scaffold_X	3709371	3721539	MSTRG.20411.1	ANOS1
scaffold_X	3740047	3765297	MSTRG.20413.1	ANOS1
scaffold_X	3740047	3754128	MSTRG.20413.2	ANOS1
scaffold_X	33922582	33986953	AOFA_g21308.t1	MAOA
scaffold_X	33924033	33986953	AOFA_g21308.t2	MAOA
scaffold_X	34006793	34116679	AOFB_g21309.t1	MAOB
scaffold_X	9807072	9835737	MSTRG.20441.1	AP1S2
scaffold_X	40333283	40341057	APEX2_g21379.t1	APEX2
scaffold_X	16514008	16568977	MSTRG.20483.1	APOO
scaffold_X	54712710	54792404	MSTRG.20673.2	AR
scaffold_X	54756188	54802304	MSTRG.20673.3	AR
scaffold_X	86743906	86752643	AR13A_g21571.t1	ARL13A
scaffold_X	36897681	36908266	MSTRG.20574.1	ARAF
scaffold_X	36897681	36908266	MSTRG.20574.2	ARAF
scaffold_X	36897698	36908266	MSTRG.20574.3	ARAF
scaffold_X	36897698	36908266	MSTRG.20574.4	ARAF
scaffold_X	36897706	36908266	MSTRG.20574.5	ARAF
scaffold_X	51466276	51579949	ARHG9_g21431.t1	ARHGEF9
scaffold_X	5674304	5924415	MSTRG.20421.1	ARHGAP6
scaffold_X	5675358	5924415	MSTRG.20421.2	ARHGAP6
scaffold_X	115214384	115311281	MSTRG.21002.1	ARHGEF6
scaffold_X	87201739	87205870	MSTRG.20825.1	ARMCX1
scaffold_X	87289466	87294229	MSTRG.20831.1	ARMCX2
scaffold_X	87289808	87294229	MSTRG.20831.2	ARMCX2
scaffold_X	87264441	87272038	MSTRG.20830.1	ARMCX3
scaffold_X	87264448	87272038	MSTRG.20830.2	ARMCX3
scaffold_X	87264448	87272038	MSTRG.20830.3	ARMCX3
scaffold_X	87172648	87172886	MSTRG.20822.1	ARMCX4
scaffold_X	87178803	87179381	MSTRG.20823.1	ARMCX4
scaffold_X	87700437	87776709	MSTRG.20836.1	ARMCX5
scaffold_X	87239874	87240185	MSTRG.20827.1	ARMCX6
scaffold_X	87204108	87205870	ARMX1_g21582.t1	ARMCX1
scaffold_X	87290208	87292133	ARMX2_g21586.t1	ARMCX2

scaffold_X	87266369	87268064	ARMX3_g21585.t1	ARMCX3
scaffold_X	87266258	87268064	ARMX3_g21585.t2	ARMCX3
scaffold_X	87703074	87706841	ARMX5_g21590.t1	ARMCX5
scaffold_X	87238970	87239626	ARMX6_g21583.t1	ARMCX6
scaffold_X	87256709	87257611	ARMX6_g21584.t1	ARMCX6
scaffold_X	57209459	57227416	MSTRG.20700.2	ARR3
scaffold_X	57218106	57227949	MSTRG.20700.3	ARR3
scaffold_X	57218106	57227598	MSTRG.20700.4	ARR3
scaffold_X	57214384	57220873	ARRC_g21459.t1	ARR3
scaffold_X	17487542	17501274	ARX_g21245.t1	ARX
scaffold_X	128228092	128276124	AT2B3_g21877.t1	ATP2B3
scaffold_X	36656486	36656818	AT5F1_g21323.t1	ATP5PB
scaffold_X	36656044	36656499	AT5F1_g21323.t2	ATP5PB
scaffold_X	92404890	92456790	ATG4A_g21636.t1	ATG4A
scaffold_X	117648030	117825566	MSTRG.21014.1	ATP11C
scaffold_X	117648219	117825566	MSTRG.21014.2	ATP11C
scaffold_X	63467884	63533400	ATP7A_g21509.t1	ATP7A
scaffold_X	63413045	63533916	MSTRG.20757.1	ATP7A
scaffold_X	63000348	63082140	ATRX_g21506.t1	ATRX
scaffold_X	63283192	63345023	ATRX_g21507.t1	ATRX
scaffold_X	63161753	63257487	MSTRG.20752.1	ATRX
scaffold_X	63161753	63257487	MSTRG.20752.2	ATRX
scaffold_X	63161753	63257487	MSTRG.20752.3	ATRX
scaffold_X	63161788	63257487	MSTRG.20752.4	ATRX
scaffold_X	58180940	58181443	MSTRG.20718.1	B3GNT5
scaffold_X	128395782	128422598	BAP31_g21882.t1	BCAP31
scaffold_X	128394327	128423416	MSTRG.21055.1	BCAP31
scaffold_X	128394327	128423416	MSTRG.21055.2	BCAP31
scaffold_X	128394328	128423694	MSTRG.21055.3	BCAP31
scaffold_X	128394328	128423596	MSTRG.21055.4	BCAR1
scaffold_X	55622156	55647985	MSTRG.20698.1	BCKDHA
scaffold_X	55622156	55647985	MSTRG.20698.3	BCKDHA
scaffold_X	13337595	13379782	BCLA3_g21219.t1	BCLAF3
scaffold_X	13442387	13515538	BCLA3_g21219.t2	BCLAF3
scaffold_X	30926506	30978137	BCOR_g21297.t1	BCOR
scaffold_X	30952887	30998456	MSTRG.20528.3	BCOR
scaffold_X	30952887	30997853	MSTRG.20528.4	BCOR
scaffold_X	30952979	30997853	MSTRG.20528.5	BCOR
scaffold_X	110022163	110062846	BCORL_g21741.t1	BCORL
scaffold_X	88420691	88421299	BEX2_g21597.t2	BEX2
scaffold_X	88484011	88484378	BEX4_g21599.t1	BEX4
scaffold_X	88420225	88421299	MSTRG.20840.1	BEX4
scaffold_X	88483840	88484757	MSTRG.20843.1	BEX4
scaffold_X	41175104	41185426	BFSP1_g21386.t1	BFSP1
scaffold_X	128185520	128201202	MSTRG.21047.1	BGN

scaffold_X	87776331	87854425	MSTRG.20836.3	GPRASP3
scaffold_X	39084561	39089957	BMP15_g21376.t2	BMP15
scaffold_X	9532397	9583522	BMX_g21193.t1	BMX
scaffold_X	129381017	129461451	MSTRG.21091.1	BRCC3
scaffold_X	66365878	66496622	BRWD3_g21524.t1	BRWD3
scaffold_X	66361271	66361504	MSTRG.20767.1	BRWD3
scaffold_X	66364538	66365103	MSTRG.20768.1	BRWD3
scaffold_X	66366262	66411518	MSTRG.20773.2	BRWD3
scaffold_X	87044687	87066148	BTK_g21578.t1	BTK
scaffold_X	52142703	52160448	MSTRG.20668.2	SPRING1
scaffold_X	102443655	102444600	C1GLC_g21712.t1	C1GALT1C1
scaffold_X	102443655	102444616	C1GLC_g21712.t2	C1GALT1C1
scaffold_X	41915601	41915981	MSTRG.20641.1	INTS15
scaffold_X	126102613	126198276	C99L2_g21846.t1	CD99L2
scaffold_X	37985699	38009350	CAC1F_g21363.t1	CACNA1F
scaffold_X	129678177	129697751	MSTRG.21095.2	CACNA1D
scaffold_X	94909427	94925880	CAN6_g21654.t1	CAPN6
scaffold_X	32064787	32448080	MSTRG.20541.1	CASK
scaffold_X	32064787	32448080	MSTRG.20541.2	CASK
scaffold_X	32067335	32448080	MSTRG.20541.3	CASK
scaffold_X	38012216	38024749	CCD22_g21365.t1	CCDC22
scaffold_X	37873897	37888655	MSTRG.20603.1	CCDC120
scaffold_X	35089568	35089774	MSTRG.20550.1	CCDC88A
scaffold_X	5651076	5662044	CCHL_g21166.t1	HCCS
scaffold_X	38504819	38566961	MSTRG.20615.1	CCNB3
scaffold_X	128283571	128295350	CCNQ_g21878.t1	CCNQ
scaffold_X	79719650	79719886	MSTRG.20790.1	CCR8
scaffold_X	86731227	86731657	MSTRG.20810.1	CCR8
scaffold_X	53697706	53697934	MSTRG.20678.1	CD200
scaffold_X	36701951	36702269	MSTRG.20571.1	CD22
scaffold_X	115193013	115204492	CD40L_g21799.t1	CD40LG
scaffold_X	12130056	12237996	CDKL5_g21211.t1	CDKL5
scaffold_X	12240779	12240996	MSTRG.20460.1	CDKL5
scaffold_X	12239114	12239356	MSTRG.20462.1	CDKL5
scaffold_X	86833099	86900687	CENPI_g21574.t1	CENPI
scaffold_X	86833126	86901479	MSTRG.20813.2	CENPI
scaffold_X	86833126	86901479	MSTRG.20813.3	CENPI
scaffold_X	86833126	86901479	MSTRG.20813.4	CENPI
scaffold_X	127597158	127601004	CETN2_g21856.t1	CETN2
scaffold_X	127596655	127601004	MSTRG.21042.1	CETN2
scaffold_X	127596657	127601004	MSTRG.21042.2	CETN2
scaffold_X	27450629	27969241	CFA47_g21281.t1	CFAP47
scaffold_X	60194439	60243165	CHIC1_g21491.t1	CHIC1
scaffold_X	94398359	94513866	MSTRG.20883.1	CHRDL1
scaffold_X	94398359	94513617	MSTRG.20883.2	CHRDL1

scaffold_X	94398359	94513617	MSTRG.20883.3	CHRDL1
scaffold_X	94399948	94513617	MSTRG.20883.4	CHRDL1
scaffold_X	36167305	36168796	CHST7_g21319.t1	CHST7
scaffold_X	36167066	36191690	MSTRG.20565.1	CHST7
scaffold_X	115375587	115375898	CK5P1_g21802.t1	CDK5RAP1
scaffold_X	4831042	4866667	CLCN4_g21164.t1	CLCN4
scaffold_X	38254973	38388621	CLCN5_g21370.t1	CLCN5
scaffold_X	38252465	38395144	MSTRG.20614.1	CLCN5
scaffold_X	91363886	91364578	CLD2_g21623.t1	CLDN2
scaffold_X	101053517	101054573	CLMN_g21684.t1	CLMN
scaffold_X	129461641	129472552	MSTRG.21092.1	CMC4
scaffold_X	92730744	92957724	CO4A5_g21638.t1	COL4A5
scaffold_X	108316336	108316548	CO9A2_g21728.t1	COL9A2
scaffold_X	92730553	92957724	MSTRG.20875.1	COL4A5
scaffold_X	92730553	92957724	MSTRG.20875.2	COL4A5
scaffold_X	92458181	92729026	MSTRG.20874.1	COL4A6
scaffold_X	92458184	92730463	MSTRG.20874.2	COL4A6
scaffold_X	53738983	53739237	COMD6_g21442.t1	COMMD6
scaffold_X	63403812	63409085	MSTRG.20755.1	COX7B
scaffold_X	117941457	117942281	CP072_g21816.t1	HAPSTR1
scaffold_X	60929172	60931047	MSTRG.20745.1	CPLX3
scaffold_X	94400462	94513617	CRDL1_g21651.t1	CHRDL1
scaffold_X	32070187	32433733	CSKP_g21303.t1	CASK
scaffold_X	86602356	86627787	CSTF2_g21568.t1	CSTF2
scaffold_X	86602325	86630060	MSTRG.20809.1	CSTF2
scaffold_X	86602692	86630060	MSTRG.20809.3	CSTF2
scaffold_X	10431545	10527366	MSTRG.20442.1	CTPS2
scaffold_X	57893407	57946862	CTR3_g21467.t1	SLC7A3
scaffold_X	57785723	57789589	CTR3_g21467.t2	SLC7A3
scaffold_X	102357415	102357640	MSTRG.20932.1	CUL4B
scaffold_X	102359978	102392124	MSTRG.20937.1	CUL4B
scaffold_X	102359989	102391675	MSTRG.20937.2	CUL4B
scaffold_X	53604288	53604959	MSTRG.20677.1	CWH43
scaffold_X	31374322	31389092	CX038_g21299.t1	CXORF38
scaffold_X	16572144	16589706	CX058_g21235.t1	CXORF58
scaffold_X	13336592	13378289	MSTRG.20471.1	BCLAF3
scaffold_X	13336592	13378289	MSTRG.20471.2	BCLAF3
scaffold_X	13348326	13377455	MSTRG.20471.4	BCLAF3
scaffold_X	13372843	13374163	MSTRG.20471.5	BCLAF3
scaffold_X	31372392	31373082	MSTRG.20527.1	CXORF38
scaffold_X	101586888	101609059	MSTRG.20917.1	STEEP1
scaffold_X	101586892	101609059	MSTRG.20917.2	STEEP1
scaffold_X	29080724	29110568	CY24B_g21289.t1	CYBB
scaffold_X	111941116	111941808	CYBP_g21766.t1	CACYBP
scaffold_X	71625635	72117095	DACH2_g21539.t1	DACH2

scaffold_X	72117382	72117689	MSTRG.20783.1	DACH2
scaffold_X	72121190	72121542	MSTRG.20784.1	DACH2
scaffold_X	106953869	106955260	DC122_g21726.t1	DCAF12L2
scaffold_X	106952963	106953519	MSTRG.20945.1	DCAF12L2
scaffold_X	107270463	107276598	MSTRG.20947.1	DCAF12L2
scaffold_X	118741685	118741907	MSTRG.21008.1	DCAF17
scaffold_X	118758203	118758717	MSTRG.21011.1	DCAF17
scaffold_X	31904839	31917854	DDX3X_g21302.t1	DDX3X
scaffold_X	72126551	72126753	MSTRG.20779.1	DEPDC4
scaffold_X	38584233	38656223	DGKK_g21373.t1	DGKK
scaffold_X	38689730	38699708	DGKK_g21374.t1	DGKK
scaffold_X	513931	557562	DHRSX_g21147.t1	DHRSX
scaffold_X	83080820	83532620	DIAP2_g21557.t1	DIAPH2
scaffold_X	83080820	83540807	DIAP2_g21557.t2	DIAPH2
scaffold_X	83323269	83901190	MSTRG.20799.3	DIAPH2
scaffold_X	129711401	129722805	DKC1_g21928.t1	DKC1
scaffold_X	57348163	57380657	DLG3_g21464.t1	DLG3
scaffold_X	57357378	57402816	MSTRG.20705.2	DLG3
scaffold_X	22993782	23134334	DMD_g21266.t1	DMD
scaffold_X	22991211	23134334	MSTRG.20509.1	DMD
scaffold_X	23052110	23298711	MSTRG.20509.3	DMD
scaffold_X	23649422	24024054	MSTRG.20509.5	DMD
scaffold_X	24081814	24908203	MSTRG.20509.7	DMD
scaffold_X	24081814	24902308	MSTRG.20509.8	DMD
scaffold_X	128952313	128955279	DNSL1_g21904.t1	DNASE1L1
scaffold_X	100780407	100958786	DOC11_g21682.t1	DOCK11
scaffold_X	86952121	86980627	DRP2_g21575.t1	DRP2
scaffold_X	86940763	86983884	MSTRG.20814.1	DRP2
scaffold_X	86940801	86962575	MSTRG.20814.2	DRP2
scaffold_X	86973475	86979722	MSTRG.20814.4	DRP2
scaffold_X	34866256	34866825	DUS18_g21312.t1	DUSP18
scaffold_X	128349814	128352727	DUS9_g21879.t1	DUSP9
scaffold_X	29143237	29151564	DYLT3_g21290.t1	DYNLT3
scaffold_X	29142296	29142590	MSTRG.20518.1	DYNLT3
scaffold_X	37462619	37465494	EBP_g21339.t1	EBP
scaffold_X	37461614	37465682	MSTRG.20588.1	EBP
scaffold_X	37461614	37480290	MSTRG.20588.2	EBP
scaffold_X	34379458	34554017	EFHC2_g21311.t1	EFHC2
scaffold_X	34491191	34553170	MSTRG.20548.2	EFHC2
scaffold_X	110068946	110109062	MSTRG.20959.1	EFNA4
scaffold_X	55929274	55940142	EFNB1_g21450.t1	EFNB1
scaffold_X	55928683	55928950	MSTRG.20697.1	EFNB1
scaffold_X	7800450	7864724	MSTRG.20427.1	EGFL6
scaffold_X	7800464	7864724	MSTRG.20427.2	EGFL6
scaffold_X	13520118	13540304	MSTRG.20464.1	EIF1AX

scaffold_X	45776743	45806094	IF2H_g21413.t1	EIF2S3
scaffold_X	110072847	110083141	ELF4_g21742.t1	ELF4
scaffold_X	110068946	110109454	MSTRG.20959.2	ELF4
scaffold_X	36968583	36973496	ELK1_g21329.t1	ELK1
scaffold_X	36967260	36981126	MSTRG.20575.1	ELK1
scaffold_X	122863975	122865369	ELL2_g21829.t1	ELL2
scaffold_X	110395095	110395310	MSTRG.20966.1	ELP1
scaffold_X	129677807	129709208	EM55_g21927.t1	MPP1
scaffold_X	114593915	114601661	EMC5_g21790.t1	MMGT1
scaffold_X	128926893	128929196	MSTRG.21070.1	EMD
scaffold_X	128926984	128929196	EMD_g21902.t1	EMD
scaffold_X	110558495	110881013	ENOX2_g21752.t1	ENOX2
scaffold_X	110592280	110705795	MSTRG.20972.3	ENOX2
scaffold_X	110557129	110812320	MSTRG.20972.1	ENOX2
scaffold_X	58601644	58627984	ERC6L_g21485.t1	ERCC6L
scaffold_X	129477028	129477237	MSTRG.21090.1	ERICH3
scaffold_X	56533014	56556928	F155B_g21453.t1	F155B
scaffold_X	89104362	89126209	F199X_g21612.t1	F199X
scaffold_X	16265237	16265459	MSTRG.20477.1	F8
scaffold_X	42038216	42038750	FA156_g21393.t1	FAM156A
scaffold_X	28592561	28593799	FA47E_g21286.t1	FAM47E
scaffold_X	128997145	129003976	FA50A_g21908.t1	FA50A
scaffold_X	129503650	129630504	FA8_g21923.t1	F8
scaffold_X	41084412	41188387	MSTRG.20629.1	FAM120C
scaffold_X	41084570	41096183	MSTRG.20629.2	FAM120C
scaffold_X	113959314	113980657	MSTRG.20982.1	FAM122B
scaffold_X	80258893	80259122	MSTRG.20792.1	FAM133A
scaffold_X	42038484	42044528	MSTRG.20643.2	FAM156A
scaffold_X	42038484	42077837	MSTRG.20643.3	FAM156A
scaffold_X	89128153	89131956	MSTRG.20851.1	FAM199X
scaffold_X	89126213	89127868	MSTRG.20854.1	FAM199X
scaffold_X	129053454	129065752	MSTRG.21084.1	FAM3A
scaffold_X	128283124	128295350	MSTRG.21049.1	FAM58A
scaffold_X	8932293	8948404	FANCB_g21187.t1	FANCB
scaffold_X	8932217	8961292	MSTRG.20433.1	FANCB
scaffold_X	124318876	124750357	MSTRG.21027.4	FBXL17
scaffold_X	124318903	124787460	MSTRG.21027.5	FBXL17
scaffold_X	32036530	32036743	MSTRG.20535.1	FBXL7
scaffold_X	104892490	104919564	MSTRG.20944.1	FER
scaffold_X	104892571	104999547	MSTRG.20944.2	FER
scaffold_X	104892571	104919564	MSTRG.20944.3	FER
scaffold_X	40811434	40844666	FGD1_g21382.t1	FGD1
scaffold_X	40811281	40844666	FGD1_g21382.t2	FGD1
scaffold_X	114739747	114798799	MSTRG.20994.1	FHL1
scaffold_X	128896393	128906921	MSTRG.21071.1	FLNA

scaffold_X	128896716	128922278	MSTRG.21071.2	FLNA
scaffold_X	123888636	123925556	MSTRG.21025.1	FMR1
scaffold_X	123888643	123925556	MSTRG.21025.2	FMR1
scaffold_X	123908495	123916002	MSTRG.21025.4	FMR1
scaffold_X	123920334	123925556	MSTRG.21025.5	FMR1
scaffold_X	123955239	123990489	FMR1N_g21836.t1	FMR1N
scaffold_X	57967049	57972465	FOXO4_g21468.t1	FOXO4
scaffold_X	28529995	28530420	FRIH_g21284.t1	FTH1
scaffold_X	28565563	28566111	FRIH_g21285.t1	FTH1
scaffold_X	28955267	28955809	FRIH_g21288.t1	FTH1
scaffold_X	8238687	8239214	FRIL_g21184.t1	FTL
scaffold_X	110409853	110411511	FSIP2_g21749.t1	FSIP2
scaffold_X	110419259	110421226	FSIP2_g21750.t1	FSIP2
scaffold_X	110421941	110469374	FSIP2_g21751.t1	FSIP2
scaffold_X	110421422	110421637	MSTRG.20969.1	FSIP2
scaffold_X	110423847	110424067	MSTRG.20971.1	FSIP2
scaffold_X	37414000	37422467	MSTRG.20585.2	FTSJ1
scaffold_X	37413890	37422467	MSTRG.20585.1	FTSJ1
scaffold_X	129480438	129500006	FUND2_g21922.t1	FUNDC2
scaffold_X	129732951	129778773	MSTRG.21097.1	GAB3
scaffold_X	127214949	127243166	MSTRG.21040.1	GABA
scaffold_X	127215817	127239697	MSTRG.21040.2	GABA
scaffold_X	87770462	87774499	GASP1_g21591.t1	GPRASP1
scaffold_X	87770288	87774499	GASP1_g21591.t2	GPRASP1
scaffold_X	87852050	87854425	GASP2_g21592.t1	GASP2
scaffold_X	16038899	16039141	MSTRG.20475.1	GDAP2
scaffold_X	128990360	128996272	MSTRG.21077.1	GDI1
scaffold_X	128990360	128996272	GDIA_g21907.t1	GDIA
scaffold_X	8213533	8225014	GEMI8_g21183.t1	GEMI8
scaffold_X	8213533	8232513	MSTRG.20430.1	GEMIN8
scaffold_X	28677377	28797718	MSTRG.20520.1	GGCX
scaffold_X	28677377	28819686	MSTRG.20520.2	GGCX
scaffold_X	22558944	22595742	MSTRG.20504.2	GK
scaffold_X	87083015	87092456	MSTRG.20820.2	GLA
scaffold_X	87082834	87092456	MSTRG.20820.1	GLA
scaffold_X	43475764	43478005	GLOD5_g21400.t1	GLOD5
scaffold_X	40754248	40788044	MSTRG.20625.2	GNL3
scaffold_X	40754491	40806093	GNL3L_g21381.t1	GNL3L
scaffold_X	40754248	40788044	MSTRG.20625.1	GNL3L
scaffold_X	40754248	40788044	MSTRG.20625.3	GNL3L
scaffold_X	40754283	40788044	MSTRG.20625.4	GNL3L
scaffold_X	40762525	40786967	MSTRG.20625.6	GNL3L
scaffold_X	110351060	110352154	GP119_g21747.t1	GP119
scaffold_X	4482116	4518669	GP143_g21160.t1	GPR143
scaffold_X	112971656	113379964	GPC3_g21770.t1	GPC3

scaffold_X	112772398	112878471	GPC4_g21769.t1	GPC4
scaffold_X	42526279	42526484	MSTRG.20645.1	GPHN
scaffold_X	37921249	37928398	GPKOW_g21358.t1	GPKOW
scaffold_X	37917344	37928398	MSTRG.20606.1	GPKOW
scaffold_X	32248080	32249090	GPR82_g21305.t1	GPR82
scaffold_X	87868311	87869963	BHLH9_g21593.t1	GPRASP1
scaffold_X	129963328	129963705	H2AB2_g21930.t1	H2AB2
scaffold_X	129636508	129637626	HAP40_g21924.t1	F8A1
scaffold_X	128134175	128159457	HAUS7_g21875.t1	HAUS7
scaffold_X	128130483	128134174	MSTRG.21051.1	HAUS7
scaffold_X	5650268	5662948	MSTRG.20420.1	HCCS
scaffold_X	41693615	41695937	HCD2_g21389.t1	HCD2
scaffold_X	128647938	128672524	HCFC1_g21895.t1	HCFC1
scaffold_X	128645946	128672524	MSTRG.21067.1	HCFC1
scaffold_X	128645946	128672524	MSTRG.21067.2	HCFC1
scaffold_X	128646001	128672524	MSTRG.21067.3	HCFC1
scaffold_X	128646001	128672524	MSTRG.21067.4	HCFC1
scaffold_X	129069043	129069440	MSTRG.21083.1	HDAC1
scaffold_X	37678745	37699191	HDAC6_g21344.t1	HDAC6
scaffold_X	37693236	37703867	MSTRG.20593.5	HDAC6
scaffold_X	58723839	58942797	MSTRG.20722.2	HDAC8
scaffold_X	58847901	58942797	MSTRG.20722.3	HDAC8
scaffold_X	40314542	40332698	HEM0_g21378.t1	ALAS2
scaffold_X	53271307	53422461	HEPH_g21440.t2	HEPH
scaffold_X	126253898	126258604	HMGB3_g21847.t1	HMGB3
scaffold_X	66812901	66832145	HMGN5_g21525.t1	HMGN5
scaffold_X	87096623	87098659	HNRH2_g21581.t1	HNRNPH2
scaffold_X	87092736	87098659	MSTRG.20821.1	HNRNPH2
scaffold_X	87092740	87098659	MSTRG.20821.2	HNRNPH2
scaffold_X	113694056	113734880	HPRT_g21774.t1	HPRT
scaffold_X	112249873	112520260	MSTRG.20977.1	HS6ST2
scaffold_X	125378196	125380012	HSFX1_g21841.t1	HSFX1
scaffold_X	43140985	43141428	HSP74_g21398.t1	HSP74
scaffold_X	115037627	115056364	MSTRG.20999.3	HTATSF1
scaffold_X	115038361	115056364	HTSF1_g21797.t1	HTATSF1
scaffold_X	115038310	115056364	HTSF1_g21797.t2	HTATSF1
scaffold_X	41507596	41626241	HUWE1_g21388.t1	HUWE1
scaffold_X	41475868	41626241	MSTRG.20633.1	HUWE1
scaffold_X	41475875	41626241	MSTRG.20633.2	HUWE1
scaffold_X	41478470	41626241	MSTRG.20633.3	HUWE1
scaffold_X	41478480	41626241	MSTRG.20633.4	HUWE1
scaffold_X	41478706	41626241	MSTRG.20633.5	HUWE1
scaffold_X	100976368	101027973	I13R1_g21683.t1	IL13RA1
scaffold_X	98072096	98095655	I13R2_g21670.t1	I13R2
scaffold_X	94816599	94888086	I20RA_g21653.t1	IL20RA

scaffold_X	20759917	20760140	MSTRG.20497.1	IAPP
scaffold_X	128478447	128487432	IDH3G_g21886.t1	IDH3G
scaffold_X	128478384	128487432	MSTRG.21059.1	IDH3G
scaffold_X	125094552	125117246	IDS_g21840.t1	IDS
scaffold_X	125091249	125117246	MSTRG.21028.1	IDS
scaffold_X	125094959	125117246	MSTRG.21028.4	IDS
scaffold_X	45381890	45405626	IF1AX_g21411.t1	EIF1AX
scaffold_X	123452628	123461043	MSTRG.21023.1	IF2
scaffold_X	57087148	57179503	MSTRG.20699.1	IGBP1
scaffold_X	114469208	114522130	INT6L_g21788.t1	INT6L
scaffold_X	114522131	114539162	INT6L_g21789.t1	INT6L
scaffold_X	114468798	114522528	MSTRG.20993.1	INTS6L
scaffold_X	114468870	114539162	MSTRG.20993.2	INTS6L
scaffold_X	114469208	114522528	MSTRG.20993.3	INTS6L
scaffold_X	33229730	33230656	IPP2C_g21306.t1	PPP1R2C
scaffold_X	41791550	41833023	IQEC2_g21391.t1	IQEC2
scaffold_X	128706405	128715145	IRAK1_g21897.t1	IRAK1
scaffold_X	128704772	128715145	MSTRG.21068.1	IRAK1
scaffold_X	128706250	128714131	MSTRG.21068.2	IRAK1
scaffold_X	21248850	21757063	IRPL1_g21259.t1	IRPL1
scaffold_X	90001720	90485306	IRPL2_g21614.t1	IRPL2
scaffold_X	58127084	58130621	ITBP2_g21476.t1	ITBP2
scaffold_X	58178032	58178806	ITBP2_g21476.t2	ITBP2
scaffold_X	64880510	64885776	ITM2A_g21520.t1	ITM2A
scaffold_X	64880542	64885776	MSTRG.20762.2	ITM2A
scaffold_X	101245707	101311313	K1210_g21688.t1	K1210
scaffold_X	102083609	102087064	KAISO_g21704.t1	ZBTB33
scaffold_X	128368505	128370817	KCC1B_g21880.t1	KCC1B
scaffold_X	37797594	37804518	KCND1_g21352.t2	KCND1
scaffold_X	93517380	93517917	KCNE5_g21643.t1	KCNE5
scaffold_X	93516499	93517917	MSTRG.20878.1	KCNE5
scaffold_X	41842223	41874252	KDM5C_g21392.t1	KDM5C
scaffold_X	41841940	41874252	MSTRG.20636.2	KDM5C
scaffold_X	41842223	41874252	MSTRG.20636.3	KDM5C
scaffold_X	41877378	41877645	MSTRG.20638.1	KDM5C
scaffold_X	34933806	35084382	KDM6A_g21313.t1	KDM6A
scaffold_X	34886782	35016139	MSTRG.20558.1	KDM6A
scaffold_X	35026150	35084382	MSTRG.20558.5	KDM6A
scaffold_X	57228579	57326095	KIF4A_g21462.t1	KIF4A
scaffold_X	57228492	57326095	KIF4A_g21462.t2	KIF4A
scaffold_X	57228121	57326095	MSTRG.20704.2	KIF4A
scaffold_X	57227936	57326095	MSTRG.20704.1	KIF4A
scaffold_X	42972884	43004660	KLF8_g21397.t1	KLF8
scaffold_X	43010301	43010524	MSTRG.20648.1	KLF8
scaffold_X	16632184	16650009	KLH15_g21236.t1	KLH15

scaffold_X	14807523	14809472	KLH34_g21223.t1	KLHL34
scaffold_X	16627396	16663444	MSTRG.20485.1	KLHL15
scaffold_X	117646358	117646587	MSTRG.21005.1	KLHL24
scaffold_X	58945972	59087916	KPB1_g21488.t1	KPB1
scaffold_X	12427319	12478090	KPB2_g21214.t1	PHKA2
scaffold_X	36101018	36124317	KRBX4_g21317.t1	KRBOX4
scaffold_X	13553684	13670252	KS6A3_g21221.t1	KS6A3
scaffold_X	69528808	69674897	KS6A6_g21531.t1	RPS6KA6
scaffold_X	89059146	89091018	KTNA1_g21611.t1	KTNA1
scaffold_X	129036041	129037188	MSTRG.21079.1	LAGE3
scaffold_X	102256854	102290887	MSTRG.20933.1	LAMP2
scaffold_X	102264070	102290887	MSTRG.20933.2	LAMP2
scaffold_X	52776023	52795534	LAS1L_g21437.t1	LAS1L
scaffold_X	52775839	52794288	MSTRG.20669.6	LAS1L
scaffold_X	52772324	52795534	MSTRG.20669.1	LAS1L
scaffold_X	52773559	52795534	MSTRG.20669.2	LAS1L
scaffold_X	52775464	52794288	MSTRG.20669.3	LAS1L
scaffold_X	52775464	52795534	MSTRG.20669.4	LAS1L
scaffold_X	52775464	52795534	MSTRG.20669.5	LAS1L
scaffold_X	52775886	52777466	MSTRG.20669.7	LAS1L
scaffold_X	52792425	52795534	MSTRG.20669.9	LAS1L
scaffold_X	118971552	118972014	LDOC1_g21823.t1	LDOC1
scaffold_X	118971409	118973760	MSTRG.21018.3	LDOC1
scaffold_X	118971405	118973760	MSTRG.21018.1	LDOC1
scaffold_X	118971405	118973760	MSTRG.21018.2	LDOC1
scaffold_X	44598506	44613578	MSTRG.20659.1	LOC101388076
scaffold_X	101397489	101413578	AK17B_g21690.t1	LOC101395896
scaffold_X	101157566	101194866	LONF3_g21686.t1	LONF3
scaffold_X	64349165	64350277	LPAR4_g21516.t1	LPAR4
scaffold_X	88282621	88283808	LRC14_g21594.t1	LRC14
scaffold_X	98189207	98286929	LRCH2_g21671.t2	LRCH2
scaffold_X	45315667	45315993	LRP11_g21410.t1	LRP11
scaffold_X	37304868	37307378	LYZL5_g21332.t1	LYZL5
scaffold_X	29862290	29862991	M1IP1_g21295.t1	M1IP1
scaffold_X	12839287	12965759	M3K15_g21217.t1	M3K15
scaffold_X	114804289	114816272	MA7D3_g21793.t1	MAP7D3
scaffold_X	18377776	18378834	MAGBI_g21248.t1	MAGEB18
scaffold_X	40459585	40466218	MAGD2_g21380.t1	MAGD2
scaffold_X	61916819	61918279	MAGE2_g21502.t1	MAGE2
scaffold_X	61916819	61918390	MAGE2_g21502.t2	MAGE2
scaffold_X	39718516	39719533	MSTRG.20618.1	MAGED1
scaffold_X	39751804	39758557	MSTRG.20619.1	MAGED1
scaffold_X	40457965	40466218	MSTRG.20624.1	MAGED2
scaffold_X	40458603	40466218	MSTRG.20624.2	MAGED2
scaffold_X	42291956	42305974	MAGH1_g21395.t1	MAGH1

scaffold_X	37949865	37953511	MAGIX_g21359.t1	MAGIX
scaffold_X	37949512	37953511	MSTRG.20607.1	MAGIX
scaffold_X	125854488	125915191	MAMD1_g21844.t1	MAMLD1
scaffold_X	33988157	33989168	MSTRG.20545.1	MAOA
scaffold_X	33987289	33987852	MSTRG.20546.1	MAOA
scaffold_X	12837969	12840881	MSTRG.20468.1	MAP3K15
scaffold_X	114802271	114836834	MSTRG.20996.1	MAP7D3
scaffold_X	114802271	114836834	MSTRG.20996.2	MAP7D3
scaffold_X	114802272	114836834	MSTRG.20996.5	MAP7D3
scaffold_X	114802271	114836834	MSTRG.20996.3	MAP7D3
scaffold_X	114802272	114836834	MSTRG.20996.4	MAP7D3
scaffold_X	114816101	114816664	MSTRG.20997.1	MAP7D3
scaffold_X	114816128	114816664	MSTRG.20997.2	MAP7D3
scaffold_X	111985107	112043542	MBNL3_g21767.t1	MBNL3
scaffold_X	111975565	112016697	MSTRG.20978.1	MBNL3
scaffold_X	111975565	112016697	MSTRG.20978.3	MBNL3
scaffold_X	111975565	112016697	MSTRG.20978.6	MBNL3
scaffold_X	111975565	112093670	MSTRG.20978.2	MBNL3
scaffold_X	111975565	112016697	MSTRG.20978.4	MBNL3
scaffold_X	111975565	112016697	MSTRG.20978.5	MBNL3
scaffold_X	111975576	112016697	MSTRG.20978.7	MBNL3
scaffold_X	14993539	15028593	MBTP2_g21226.t1	MBTPS2
scaffold_X	14993435	15028593	MSTRG.20473.1	MBTPS2
scaffold_X	14993435	15010535	MSTRG.20473.2	MBTPS2
scaffold_X	117528880	117623961	MCF2_g21813.t1	MCF2
scaffold_X	102423335	102433326	MSTRG.20938.1	MCTS1
scaffold_X	128726661	128780275	MECP2_g21898.t1	MECP2
scaffold_X	128718121	128747112	MSTRG.21069.3	MECP2
scaffold_X	128718009	128785154	MSTRG.21069.1	MECP2
scaffold_X	128718121	128785154	MSTRG.21069.2	MECP2
scaffold_X	128727231	128750136	MSTRG.21069.5	MECP2
scaffold_X	57982507	58005015	MED12_g21471.t1	MED12
scaffold_X	57982194	58005015	MSTRG.20709.1	MED12
scaffold_X	57982507	58005015	MSTRG.20709.2	MED12
scaffold_X	57984771	57993017	MSTRG.20709.5	MED12
scaffold_X	31393652	31461007	MED14_g21300.t1	MED14
scaffold_X	31391588	31461007	MSTRG.20531.1	MED14
scaffold_X	70753063	70840271	MIC27_g21534.t1	APOOL
scaffold_X	5842222	5859571	MSTRG.20422.1	MID1
scaffold_X	29861430	29862991	MSTRG.20526.1	MID1IP1
scaffold_X	100662267	100664731	MLH3_g21680.t1	MLH3
scaffold_X	114591173	114597830	MSTRG.20992.1	MMGT1
scaffold_X	88735736	88736626	MO4L2_g21602.t1	MO4L2
scaffold_X	52884814	52984920	MOES_g21438.t1	MSN
scaffold_X	91376310	91419154	MSTRG.20863.1	MORC4

scaffold_X	91376411	91419154	MSTRG.20863.4	MORC4
scaffold_X	91376310	91419154	MSTRG.20863.2	MORC4
scaffold_X	91376314	91419154	MSTRG.20863.3	MORC4
scaffold_X	88733588	88746456	MSTRG.20847.1	MORF4L2
scaffold_X	114043767	114065613	MSTRG.20985.1	MOSPD1
scaffold_X	8961656	9007804	MSTRG.20434.1	MOSPD2
scaffold_X	123328689	123330998	MOT12_g21833.t1	SLC16A12
scaffold_X	60827253	60933137	MOT8_g21493.t2	AJAP1
scaffold_X	6224983	6239926	MS3L1_g21169.t1	MSL3
scaffold_X	6224686	6239926	MSTRG.20423.1	MSL3
scaffold_X	6225312	6239926	MSTRG.20423.3	MSL3
scaffold_X	114045343	114054161	MSPD1_g21780.t1	MOSPD1
scaffold_X	129466985	129472552	MSTRG.21092.2	MTCP1
scaffold_X	129466985	129468213	MTCP1_g21920.t1	MTCP1
scaffold_X	125968954	126041612	MSTRG.21032.1	MTM1
scaffold_X	126048645	126098618	MSTRG.21033.1	MTMR1
scaffold_X	126049800	126098618	MTMR1_g21845.t1	MTMR1
scaffold_X	52001712	52142636	MSTRG.20667.1	MTMR8
scaffold_X	54818559	54818771	MSTRG.20686.1	MTR
scaffold_X	90794130	90825900	MSTRG.20857.1	MUM1L1
scaffold_X	90794139	90825900	MSTRG.20857.2	MUM1L1
scaffold_X	90800982	90815931	MSTRG.20857.3	MUM1L1
scaffold_X	987262	987690	MSTRG.20402.1	MXRA5
scaffold_X	987709	988515	MXRA5_g21150.t1	MXRA5
scaffold_X	54624250	54624472	MSTRG.20670.1	MYPN
scaffold_X	54850575	54850956	MSTRG.20690.1	MYPN
scaffold_X	128631573	128636577	NAA10_g21892.t1	NAA10
scaffold_X	86818530	86829956	NACHO_g21573.t1	TMEM35A
scaffold_X	26077529	26077757	MSTRG.20506.1	NAIF1
scaffold_X	92288519	92310963	NAL12_g21633.t1	NAL12
scaffold_X	43475764	43486334	MSTRG.20651.1	NBDY
scaffold_X	34195765	34205459	NDP_g21310.t1	NDP
scaffold_X	34195765	34205513	NDP_g21310.t2	NDP
scaffold_X	101808968	101812013	MSTRG.20925.1	NDUFA1
scaffold_X	90952220	91002012	NEK5_g21618.t1	NEK5
scaffold_X	11429827	11441542	MSTRG.20455.4	NHS
scaffold_X	11107475	11108245	NHS_g21204.t1	NHS
scaffold_X	11346699	11441542	NHS_g21205.t1	NHS
scaffold_X	11106962	11443203	MSTRG.20455.1	NHS
scaffold_X	101836406	101852099	NKAP_g21700.t1	NKAP
scaffold_X	101631883	101644243	NKRF_g21695.t1	NKRF
scaffold_X	95259966	95297222	NKX28_g21659.t1	NKX28
scaffold_X	58008306	58026331	NLGN3_g21472.t1	NLGN3
scaffold_X	55255839	55256246	PLET1_g21447.t1	NLRP2
scaffold_X	58118574	58126452	NONO_g21475.t1	NONO

scaffold_X	125427851	125478748	ATS12_g21843.t1	ATS12_g21843.t1
scaffold_X	23715098	23715415	BBS1_g21267.t1	BBS1_g21267.t1
scaffold_X	23149982	23700078	DMD_g21266.t2	DMD_g21266.t2
scaffold_X	23719699	24908203	DMD_g21268.t1	DMD_g21268.t1
scaffold_X	3300691	3315545	FUT1_g21157.t1	FUT1_g21157.t1
scaffold_X	82070328	82071080	FV1_g21555.t1	FV1_g21555.t1
scaffold_X	498515	498725	MSTRG.20395.1	MSTRG.20395.1
scaffold_X	732207	732415	MSTRG.20399.1	MSTRG.20399.1
scaffold_X	1079106	1079315	MSTRG.20404.1	MSTRG.20404.1
scaffold_X	7800703	7840332	MSTRG.20427.3	MSTRG.20427.3
scaffold_X	7875030	7883747	MSTRG.20428.1	MSTRG.20428.1
scaffold_X	16218951	16219164	MSTRG.20476.1	MSTRG.20476.1
scaffold_X	17197614	17479534	MSTRG.20493.1	MSTRG.20493.1
scaffold_X	17197614	17479534	MSTRG.20493.2	MSTRG.20493.2
scaffold_X	20797814	20798038	MSTRG.20494.1	MSTRG.20494.1
scaffold_X	20792109	20792341	MSTRG.20495.1	MSTRG.20495.1
scaffold_X	20851581	20851798	MSTRG.20496.1	MSTRG.20496.1
scaffold_X	23379190	23379516	MSTRG.20510.1	MSTRG.20510.1
scaffold_X	29017200	29017411	MSTRG.20517.1	MSTRG.20517.1
scaffold_X	32011787	32012005	MSTRG.20536.1	MSTRG.20536.1
scaffold_X	35650875	35651101	MSTRG.20555.1	MSTRG.20555.1
scaffold_X	37679058	37699191	MSTRG.20593.3	MSTRG.20593.3
scaffold_X	40299657	40341057	MSTRG.20620.1	MSTRG.20620.1
scaffold_X	41791499	41833023	MSTRG.20635.1	MSTRG.20635.1
scaffold_X	42593992	42594195	MSTRG.20646.1	MSTRG.20646.1
scaffold_X	50333677	50334040	MSTRG.20663.1	MSTRG.20663.1
scaffold_X	52142703	52160448	MSTRG.20668.1	MSTRG.20668.1
scaffold_X	54027241	54027468	MSTRG.20672.1	MSTRG.20672.1
scaffold_X	53602929	53603237	MSTRG.20676.1	MSTRG.20676.1
scaffold_X	57103235	57227342	MSTRG.20700.1	MSTRG.20700.1
scaffold_X	57982507	58005015	MSTRG.20709.4	MSTRG.20709.4
scaffold_X	58183218	58186781	MSTRG.20717.1	MSTRG.20717.1
scaffold_X	60347536	60386468	MSTRG.20734.1	MSTRG.20734.1
scaffold_X	60347536	60386468	MSTRG.20734.2	MSTRG.20734.2
scaffold_X	60366854	60386480	MSTRG.20735.6	MSTRG.20735.6
scaffold_X	60647348	60681267	MSTRG.20737.2	MSTRG.20737.2
scaffold_X	60516721	60517123	MSTRG.20742.1	MSTRG.20742.1
scaffold_X	63546745	63546951	MSTRG.20756.1	MSTRG.20756.1
scaffold_X	65792051	65792251	MSTRG.20765.1	MSTRG.20765.1
scaffold_X	71861790	71862046	MSTRG.20781.1	MSTRG.20781.1
scaffold_X	75733207	75733420	MSTRG.20786.1	MSTRG.20786.1
scaffold_X	82019531	82019749	MSTRG.20796.1	MSTRG.20796.1
scaffold_X	83274881	83275106	MSTRG.20801.1	MSTRG.20801.1
scaffold_X	83819383	83819584	MSTRG.20802.1	MSTRG.20802.1
scaffold_X	86460638	86460846	MSTRG.20805.1	MSTRG.20805.1

scaffold_X	87636241	87636459	MSTRG.20832.1	MSTRG.20832.1
scaffold_X	88482853	88483057	MSTRG.20841.1	MSTRG.20841.1
scaffold_X	89150290	89150496	MSTRG.20855.1	MSTRG.20855.1
scaffold_X	91613704	91664864	MSTRG.20867.2	MSTRG.20867.2
scaffold_X	95824215	95824443	MSTRG.20887.1	MSTRG.20887.1
scaffold_X	98055796	98055998	MSTRG.20891.1	MSTRG.20891.1
scaffold_X	100934504	100934731	MSTRG.20905.1	MSTRG.20905.1
scaffold_X	101739203	101743611	MSTRG.20921.1	MSTRG.20921.1
scaffold_X	104922144	104999547	MSTRG.20944.5	MSTRG.20944.5
scaffold_X	109019406	109019633	MSTRG.20948.1	MSTRG.20948.1
scaffold_X	105179387	105292676	MSTRG.20950.2	MSTRG.20950.2
scaffold_X	111468004	111468220	MSTRG.20975.1	MSTRG.20975.1
scaffold_X	118748500	118748702	MSTRG.21010.1	MSTRG.21010.1
scaffold_X	117820543	117824838	MSTRG.21015.1	MSTRG.21015.1
scaffold_X	118790879	118791082	MSTRG.21016.1	MSTRG.21016.1
scaffold_X	121142634	121142866	MSTRG.21021.1	MSTRG.21021.1
scaffold_X	125480734	125481069	MSTRG.21030.1	MSTRG.21030.1
scaffold_X	127661327	127736927	MSTRG.21044.1	MSTRG.21044.1
scaffold_X	127661327	127736927	MSTRG.21044.3	MSTRG.21044.3
scaffold_X	129299741	129299964	MSTRG.21089.1	MSTRG.21089.1
scaffold_X	130175359	130175572	MSTRG.21100.1	MSTRG.21100.1
scaffold_X	130324498	130324700	MSTRG.21101.1	MSTRG.21101.1
scaffold_X	56331883	56334287	PROM1_g21452.t1	PROM1_g21452.t1
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scaffold_X	475797	476105	MSTRG.20391.1	NOTHING
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scaffold_X	1974453	1974676	MSTRG.20406.1	NOTHING
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scaffold_X	3513923	3514169	MSTRG.20410.1	NOTHING
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scaffold_X	4373442	4479767	MSTRG.20414.2	NOTHING
scaffold_X	4787727	4788046	MSTRG.20417.1	NOTHING
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scaffold_X	10564301	10564985	MSTRG.20446.1	NOTHING
scaffold_X	10565538	10565751	MSTRG.20447.1	NOTHING
scaffold_X	10629746	10631713	MSTRG.20449.1	NOTHING
scaffold_X	10715284	10729833	MSTRG.20452.1	NOTHING
scaffold_X	10760625	10782969	MSTRG.20453.1	NOTHING

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scaffold_X	14457686	14457969	MSTRG.20469.1	NOTHING
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scaffold_X	16591902	16592121	MSTRG.20484.1	NOTHING
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scaffold_X	20703744	20703952	MSTRG.20500.1	NOTHING
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scaffold_X	28646643	28678774	MSTRG.20519.1	NOTHING
scaffold_X	28646709	28654905	MSTRG.20519.2	NOTHING
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scaffold_X	28605810	28611841	MSTRG.20522.1	NOTHING
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scaffold_X	31516954	31517169	MSTRG.20530.1	NOTHING
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scaffold_X	31680077	31827962	MSTRG.20534.2	NOTHING
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scaffold_X	35628996	35630680	MSTRG.20553.1	NOTHING
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scaffold_X	35020847	35084382	MSTRG.20558.4	NOTHING
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scaffold_X	40301905	40302109	MSTRG.20621.1	NOTHING

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scaffold_X	60347563	60384720	MSTRG.20734.7	NOTHING
scaffold_X	60347563	60384720	MSTRG.20734.8	NOTHING
scaffold_X	60347563	60384720	MSTRG.20734.9	NOTHING
scaffold_X	60365307	60386480	MSTRG.20735.1	NOTHING
scaffold_X	60365307	60386480	MSTRG.20735.2	NOTHING
scaffold_X	60365307	60386480	MSTRG.20735.3	NOTHING

scaffold_X	60366854	60386480	MSTRG.20735.4	NOTHING
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scaffold_X	60425577	60490443	MSTRG.20740.3	NOTHING
scaffold_X	60425598	60449927	MSTRG.20740.4	NOTHING
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scaffold_X	60445572	60453806	MSTRG.20741.1	NOTHING
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scaffold_X	60950984	60981164	MSTRG.20746.2	NOTHING
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scaffold_X	63835539	63835739	MSTRG.20759.1	NOTHING
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scaffold_X	65713013	65713223	MSTRG.20764.1	NOTHING
scaffold_X	65740092	65775902	MSTRG.20766.1	NOTHING
scaffold_X	66800303	66800513	MSTRG.20769.1	NOTHING
scaffold_X	69181864	69182076	MSTRG.20772.1	NOTHING
scaffold_X	77620052	77620467	MSTRG.20785.1	NOTHING
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scaffold_X	75205637	75205977	MSTRG.20793.1	NOTHING
scaffold_X	82070040	82070294	MSTRG.20797.1	NOTHING
scaffold_X	86506518	86506790	MSTRG.20804.1	NOTHING
scaffold_X	86546126	86546363	MSTRG.20807.1	NOTHING
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scaffold_X	86563789	86602278	MSTRG.20808.2	NOTHING
scaffold_X	86565990	86602278	MSTRG.20808.3	NOTHING
scaffold_X	87036591	87036803	MSTRG.20815.1	NOTHING
scaffold_X	87058348	87058583	MSTRG.20818.1	NOTHING
scaffold_X	87186489	87186697	MSTRG.20824.1	NOTHING
scaffold_X	87277813	87278036	MSTRG.20829.1	NOTHING
scaffold_X	87525891	87526123	MSTRG.20834.1	NOTHING
scaffold_X	89105098	89105381	MSTRG.20853.1	NOTHING
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scaffold_X	92393007	92393293	MSTRG.20870.1	NOTHING
scaffold_X	93525162	93525365	MSTRG.20877.1	NOTHING
scaffold_X	94028933	94029147	MSTRG.20880.1	NOTHING
scaffold_X	94122650	94137914	MSTRG.20882.3	NOTHING
scaffold_X	94770393	94803286	MSTRG.20885.1	NOTHING
scaffold_X	94776993	94778498	MSTRG.20885.2	NOTHING

scaffold_X	98018905	98019259	MSTRG.20889.1	NOTHING
scaffold_X	98472445	98472697	MSTRG.20892.1	NOTHING
scaffold_X	98186418	98286929	MSTRG.20893.1	NOTHING
scaffold_X	98270246	98286929	MSTRG.20893.3	NOTHING
scaffold_X	98475907	98566248	MSTRG.20894.1	NOTHING
scaffold_X	100379486	100379729	MSTRG.20896.1	NOTHING
scaffold_X	99640424	99640719	MSTRG.20898.1	NOTHING
scaffold_X	100736750	100737204	MSTRG.20899.1	NOTHING
scaffold_X	100678391	100678599	MSTRG.20902.1	NOTHING
scaffold_X	100683262	100683473	MSTRG.20903.1	NOTHING
scaffold_X	100976841	101029952	MSTRG.20906.2	NOTHING
scaffold_X	101803242	101803442	MSTRG.20922.1	NOTHING
scaffold_X	101845117	101852099	MSTRG.20926.2	NOTHING
scaffold_X	102062655	102075172	MSTRG.20927.1	NOTHING
scaffold_X	102100877	102101095	MSTRG.20930.1	NOTHING
scaffold_X	102240756	102240977	MSTRG.20931.1	NOTHING
scaffold_X	103569391	103569595	MSTRG.20935.1	NOTHING
scaffold_X	104355136	104355419	MSTRG.20939.1	NOTHING
scaffold_X	105110612	105124566	MSTRG.20940.2	NOTHING
scaffold_X	104891004	104891239	MSTRG.20943.1	NOTHING
scaffold_X	109552400	109552606	MSTRG.20949.1	NOTHING
scaffold_X	109639096	109686285	MSTRG.20952.4	NOTHING
scaffold_X	109873324	109873615	MSTRG.20953.1	NOTHING
scaffold_X	111511301	111511509	MSTRG.20973.1	NOTHING
scaffold_X	111535152	111535365	MSTRG.20974.1	NOTHING
scaffold_X	114038683	114038922	MSTRG.20983.1	NOTHING
scaffold_X	114036415	114036648	MSTRG.20984.1	NOTHING
scaffold_X	114388147	114388614	MSTRG.20991.1	NOTHING
scaffold_X	115364117	115364339	MSTRG.20998.1	NOTHING
scaffold_X	117177941	117178157	MSTRG.21004.1	NOTHING
scaffold_X	117635587	117635801	MSTRG.21007.1	NOTHING
scaffold_X	118747864	118748151	MSTRG.21009.1	NOTHING
scaffold_X	118781673	118781878	MSTRG.21017.1	NOTHING
scaffold_X	118778264	118778493	MSTRG.21019.1	NOTHING
scaffold_X	118827142	118827387	MSTRG.21020.1	NOTHING
scaffold_X	118807781	118808076	MSTRG.21022.1	NOTHING
scaffold_X	123581146	123581359	MSTRG.21024.1	NOTHING
scaffold_X	124815279	124815480	MSTRG.21026.1	NOTHING
scaffold_X	125479490	125479700	MSTRG.21031.1	NOTHING
scaffold_X	126554835	126556084	MSTRG.21039.1	NOTHING
scaffold_X	127661327	127736927	MSTRG.21044.2	NOTHING
scaffold_X	128103513	128117946	MSTRG.21046.1	NOTHING
scaffold_X	128950423	128951494	MSTRG.21072.1	NOTHING
scaffold_X	128949874	128950107	MSTRG.21074.1	NOTHING
scaffold_X	130168443	130168806	MSTRG.21099.1	NOTHING

scaffold_X	130386352	130386654	MSTRG.21103.1	NOTHING
scaffold_X	130395822	130396277	MSTRG.21104.1	NOTHING
scaffold_X	130491871	130492123	MSTRG.21107.1	NOTHING
scaffold_X	130497498	130497702	MSTRG.21108.1	NOTHING
scaffold_X	86630568	86652119	NOX1_g21569.t1	NOX1
scaffold_X	80212491	80213912	NP1L3_g21550.t1	NP1L3
scaffold_X	127601304	127630448	MSTRG.21043.1	NSDHL
scaffold_X	127601506	127630448	MSTRG.21043.2	NSDHL
scaffold_X	127607853	127630448	NSDHL_g21857.t1	NSDHL
scaffold_X	91581854	91667228	NUP62_g21626.t1	NUP62
scaffold_X	93459816	93466389	MSTRG.20876.2	NXT2
scaffold_X	93459908	93466389	MSTRG.20876.3	NXT2
scaffold_X	93460301	93466389	MSTRG.20876.4	NXT2
scaffold_X	109638635	109686285	MSTRG.20952.2	OCRL
scaffold_X	109639169	109686285	OCRL_g21732.t1	OCRL
scaffold_X	109638635	109686285	MSTRG.20952.1	OCRL
scaffold_X	12824071	12838130	ODPA_g21216.t1	PDHA1
scaffold_X	7941880	7979953	OFD1_g21181.t1	OFD1
scaffold_X	58314937	58374205	MSTRG.20720.1	OGT
scaffold_X	58314938	58348151	MSTRG.20720.2	OGT
scaffold_X	58315143	58346340	OGT1_g21478.t1	OGT
scaffold_X	111284908	111285849	OLF24_g21760.t1	OLF24
scaffold_X	55093474	55172173	MSTRG.20692.2	OPHN1
scaffold_X	55093327	55594195	MSTRG.20692.1	OPHN1
scaffold_X	110064274	110064495	MSTRG.20956.1	OR10G9NP
scaffold_X	27433872	27434723	ORC3_g21279.t1	ORC3
scaffold_X	37766249	37796339	MSTRG.20594.1	OTUD5
scaffold_X	37768621	37794699	OTUD5_g21351.t1	OTUD5
scaffold_X	20801554	20801797	MSTRG.20502.1	OX2
scaffold_X	57197469	57198518	P2RY4_g21458.t1	P2RY4
scaffold_X	19489003	19491354	P4R3B_g21254.t1	PPP4R3B
scaffold_X	126924935	126925330	P52K_g21853.t1	P52K
scaffold_X	73389524	73391308	PABP1_g21541.t2	PABPC4L
scaffold_X	94797214	94800117	PAK3_g21652.t1	PAK3
scaffold_X	487414	487633	MSTRG.20393.1	PBDC1
scaffold_X	62209846	62213906	PBDC1_g21503.t1	PBDC1
scaffold_X	62209846	62213906	MSTRG.20750.1	PBDC1
scaffold_X	113961033	113980657	PBIR2_g21776.t1	PBIR2
scaffold_X	86075674	86076739	PCD19_g21562.t1	PCDH19
scaffold_X	89058250	89058478	MSTRG.20850.1	PCDHB8
scaffold_X	37705108	37709815	PCS1N_g21346.t1	PCS1N
scaffold_X	17070082	17153460	PCY1B_g21243.t1	PCYT1B
scaffold_X	60993189	60993521	PDIA6_g21495.t1	PDIA6
scaffold_X	16987946	17049880	PDK3_g21242.t1	PDK3
scaffold_X	128495074	128495533	MSTRG.21061.1	PDZD4

scaffold_X	64229183	64229554	PEG10_g21514.t1	PEG10
scaffold_X	129274164	129293545	PFD3_g21917.t1	VBP1
scaffold_X	63623196	63642660	MSTRG.20758.1	PGK1
scaffold_X	15147913	15328972	PHEX_g21229.t1	PHEX
scaffold_X	113630586	113678469	MSTRG.20980.1	PHF6
scaffold_X	41239492	41315191	PHF8_g21387.t1	PHF8
scaffold_X	41215177	41315955	MSTRG.20631.1	PHF8
scaffold_X	41215177	41315955	MSTRG.20631.2	PHF8
scaffold_X	41215292	41315191	MSTRG.20631.3	PHF8
scaffold_X	58943524	59061762	MSTRG.20728.1	PHKA1
scaffold_X	58943524	59061762	MSTRG.20728.2	PHKA1
scaffold_X	58980162	59061762	MSTRG.20728.4	PHKA1
scaffold_X	59062690	59062916	MSTRG.20729.1	PHKA1
scaffold_X	12426493	12501088	MSTRG.20463.2	PHKA2
scaffold_X	12423466	12423667	MSTRG.20461.1	PHKA2
scaffold_X	12424763	12649497	MSTRG.20463.1	PHKA2
scaffold_X	129300430	129351036	PICAL_g21918.t1	PICALM
scaffold_X	9379680	9391810	MSTRG.20435.1	PIGA
scaffold_X	9380826	9392331	MSTRG.20435.2	PIGA
scaffold_X	9352666	9375426	PIGA_g21190.t3	PIGA
scaffold_X	37759947	37764650	PIM2_g21350.t1	PIM2
scaffold_X	58585871	58595594	PIN4_g21484.t1	PIN4
scaffold_X	9432661	9523585	MSTRG.20439.1	PIR
scaffold_X	9432661	9523585	MSTRG.20439.2	PIR
scaffold_X	9433099	9523585	MSTRG.20439.3	PIR
scaffold_X	56233011	56238009	MSTRG.20696.1	PJA1
scaffold_X	56233011	56238009	MSTRG.20696.2	PJA1
scaffold_X	9428104	9428320	MSTRG.20437.1	PLA2G2E
scaffold_X	113783819	113784358	PLAC1_g21775.t1	PLAC1
scaffold_X	37956815	37959457	PLP2_g21360.t1	PLP2
scaffold_X	3376304	3397462	PLPL4_g21158.t1	PLPL4
scaffold_X	98559502	98634987	MSTRG.20895.1	PLS3
scaffold_X	98559502	98634987	MSTRG.20895.2	PLS3
scaffold_X	98599729	98634987	PLST_g21673.t1	PLS3
scaffold_X	128459233	128472158	PLXB3_g21884.t1	PLXNB3
scaffold_X	129017400	129032414	MSTRG.21081.3	PLXNA3
scaffold_X	129017400	129032414	MSTRG.21081.4	PLXNA3
scaffold_X	129017137	129032414	MSTRG.21081.1	PLXNA3
scaffold_X	129017421	129032414	MSTRG.21081.5	PLXNA3
scaffold_X	128467593	128467914	MSTRG.21058.2	PLXNB3
scaffold_X	128007730	128009226	PMA6E_g21870.t1	PMA6E
scaffold_X	127998076	127998945	PMA6F_g21869.t1	PMA6F
scaffold_X	101183644	101183856	MSTRG.20908.1	PMVK
scaffold_X	128091329	128092675	PMA6E_g21872.t1	PNMA6F
scaffold_X	3376304	3398235	MSTRG.20408.1	PNPLA4

scaffold_X	70985580	71106827	POF1B_g21537.t1	POF1B
scaffold_X	37448914	37460505	MSTRG.20586.1	PORCN
scaffold_X	37449726	37460505	PORCN_g21338.t1	PORCN
scaffold_X	122091203	122257678	PP2BA_g21827.t1	PP2BA
scaffold_X	37745001	37749166	MSTRG.20596.1	PQBP1
scaffold_X	37747963	37748371	MSTRG.20597.1	PQBP1
scaffold_X	37745409	37749166	PQBP1_g21348.t1	PQBP1
scaffold_X	37889087	37891342	MSTRG.20604.1	PRAF2
scaffold_X	37889806	37892069	PRAF2_g21356.t1	PRAF2
scaffold_X	16395679	16415094	PRDX4_g21231.t1	PRDX4
scaffold_X	36470860	36601406	MSTRG.20568.1	PRH1
scaffold_X	37960069	37968431	PRIC3_g21361.t1	PRICKLE3
scaffold_X	1134804	1159699	MSTRG.20405.1	PRKX
scaffold_X	36956732	36962602	PROP_g21328.t1	PROP1
scaffold_X	91994246	92015522	PRPS1_g21630.t1	PRPS1
scaffold_X	92398247	92404588	PSD10_g21635.t1	PSD10
scaffold_X	92397450	92398247	MSTRG.20871.2	PSMD10
scaffold_X	92397012	92398247	MSTRG.20871.1	PSMD10
scaffold_X	16238726	16257156	MSTRG.20479.1	PTCHD1
scaffold_X	127948078	127949919	PWP3B_g21868.t1	PWWP3B
scaffold_X	101807849	101808979	R113A_g21698.t2	RNF113A
scaffold_X	129258780	129258990	MSTRG.21086.1	RAB39B
scaffold_X	57222136	57227949	MSTRG.20700.5	RAB41
scaffold_X	57220948	57222605	RAB41_g21460.t1	RAB41
scaffold_X	7903443	7923581	MSTRG.20429.1	RAB9A
scaffold_X	7922439	7923581	RAB9A_g21179.t1	RAB9A
scaffold_X	7922370	7923581	RAB9A_g21179.t2	RAB9A
scaffold_X	47954890	47955495	RAB9A_g21418.t1	RAB9A
scaffold_X	88893805	88894410	RAB9B_g21605.t1	RAB9B
scaffold_X	11476334	11536706	MSTRG.20457.1	RAI2
scaffold_X	11476385	11537148	MSTRG.20457.2	RAI2
scaffold_X	11476739	11478352	RAI2_g21207.t1	RAI2
scaffold_X	111835533	111848488	MSTRG.20976.1	RAP2C
scaffold_X	111844683	111848276	RAP2C_g21765.t1	RAP2C
scaffold_X	37700402	37703867	RASE_g21345.t1	ERAS
scaffold_X	110161204	110170694	RB33A_g21744.t1	RB33A
scaffold_X	129252824	129256605	RB39B_g21916.t1	RAB39B
scaffold_X	10636763	10661057	MSTRG.20450.1	RBBP7
scaffold_X	10637165	10661057	RBBP7_g21202.t1	RBBP7
scaffold_X	37490129	37493718	MSTRG.20587.1	RBM3
scaffold_X	37490135	37493718	MSTRG.20587.2	RBM3
scaffold_X	60339464	60339741	MSTRG.20731.1	RBM3
scaffold_X	91515416	91517750	MSTRG.20862.1	RBM41
scaffold_X	91518481	91576344	MSTRG.20864.1	RBM41
scaffold_X	91571548	91574895	MSTRG.20864.3	RBM41

scaffold_X	115367337	115376158	MSTRG.21000.1	RBMX
scaffold_X	115371093	115374935	RBMX_g21801.t1	RBMX
scaffold_X	110367520	110377761	RBMX2_g21748.t1	RBMX2
scaffold_X	110379751	110380087	MSTRG.20964.1	RBMX2
scaffold_X	110378985	110379434	MSTRG.20965.1	RBMX2
scaffold_X	110384950	110385324	MSTRG.20967.1	RBMX2
scaffold_X	101764051	101780123	REN3B_g21697.t1	UPF3B
scaffold_X	128636878	128642116	RENBP_g21893.t1	RENBP
scaffold_X	128636878	128643021	MSTRG.21065.2	RENBP
scaffold_X	71395294	71558674	MSTRG.20778.1	REP-1
scaffold_X	10832669	10934488	MSTRG.20451.3	REPS2
scaffold_X	10730047	10934488	REPS2_g21203.t1	REPS2
scaffold_X	10676574	10939772	MSTRG.20451.1	REPS2
scaffold_X	83270361	83271152	RFA4_g21558.t1	RFA4
scaffold_X	130479775	130480003	MSTRG.21106.1	RGL1
scaffold_X	36616391	36627124	MSTRG.20569.1	RGN
scaffold_X	36616392	36627124	MSTRG.20569.2	RGN
scaffold_X	36617830	36627124	MSTRG.20569.3	RGN
scaffold_X	36617830	36627124	MSTRG.20569.4	RGN
scaffold_X	128610652	128627662	RHG04_g21891.t1	RHG04
scaffold_X	5676798	5924415	RHG06_g21167.t1	RHG06
scaffold_X	5676798	5816939	RHG06_g21167.t2	RHG06
scaffold_X	16693508	16694440	MSTRG.20486.1	RHOBTB1
scaffold_X	41693613	41695937	MSTRG.20644.1	RIBC1
scaffold_X	41696255	41707370	RIBC1_g21390.t1	RIBC1
scaffold_X	41696312	41707370	MSTRG.20640.2	RIBC1
scaffold_X	128946782	128949650	RL10_g21903.t1	RPL10
scaffold_X	87078102	87080661	RL36A_g21579.t1	RPL36A
scaffold_X	91194495	91242839	RN128_g21620.t1	RNF128
scaffold_X	60961788	60966200	RNF12_g21494.t1	RLIM
scaffold_X	36446260	36446462	MSTRG.20564.1	RP2
scaffold_X	102509877	102510278	RPAC2_g21714.t1	POLR1D
scaffold_X	29477258	29529741	RPGR_g21293.t1	RPGR
scaffold_X	58651440	58657368	MSTRG.20724.1	RPS4X
scaffold_X	69550427	69550734	MSTRG.20775.1	RPS5KA6
scaffold_X	13547843	13670252	MSTRG.20472.1	RPS6KA3
scaffold_X	13547843	13646256	MSTRG.20472.2	RPS6KA3
scaffold_X	42564197	42587997	MSTRG.20647.1	RRAGB
scaffold_X	42564805	42587997	RRAGB_g21396.t1	RRAGB
scaffold_X	58651630	58657368	RS4_g21486.t1	RS4
scaffold_X	95885015	95885932	RTL4_g21664.t2	RTL4
scaffold_X	58539660	58544039	MSTRG.20721.1	RTL4
scaffold_X	58542339	58544039	RTL5_g21481.t1	RTL5
scaffold_X	101492747	101529015	S2543_g21691.t1	SLC25A43
scaffold_X	89042654	89043397	S2553_g21608.t1	SLC25A53

scaffold_X	89043426	89050415	S2553_g21608.t2	SLC25A53
scaffold_X	37749513	37758577	S35A2_g21349.t1	S35A2
scaffold_X	37398319	37413997	S38A5_g21336.t1	S38A5
scaffold_X	16476916	16479432	SAT1_g21233.t1	SAT1
scaffold_X	70843675	70937985	SATL1_g21535.t1	SATL1
scaffold_X	128381953	128389393	SC6A8_g21881.t1	SC6A8
scaffold_X	11445073	11459054	MSTRG.20456.1	SCML1
scaffold_X	11445078	11459054	MSTRG.20456.2	SCML1
scaffold_X	11901014	11988347	MSTRG.20458.1	SCML2
scaffold_X	11901014	11988347	MSTRG.20458.2	SCML2
scaffold_X	101654319	101709613	SEPT6_g21696.t1	SEPTIN6
scaffold_X	20470900	20471280	MSTRG.20498.1	SESN3
scaffold_X	12984038	13312117	SH3K1_g21218.t1	SH3KBP1
scaffold_X	66891236	66948878	SH3L1_g21526.t1	SH3L1
scaffold_X	38834102	39016508	SHRM4_g21375.t1	SHROOM4
scaffold_X	4575918	4634515	MSTRG.20415.2	SHROOM2
scaffold_X	114611490	114664695	SL9A6_g21791.t1	SLC9A6
scaffold_X	36198228	36329917	SL9A7_g21320.t1	SLC9A7
scaffold_X	129048286	129052447	MSTRG.21082.1	SLC10A3
scaffold_X	129048286	129052447	MSTRG.21082.2	SLC10A3
scaffold_X	87275787	87276028	MSTRG.20828.1	SLC16A9
scaffold_X	101529331	101529588	MSTRG.20914.1	SLC25A43
scaffold_X	66918261	66918478	MSTRG.20771.1	SLC28A3
scaffold_X	41929123	41929338	MSTRG.20642.1	SLC30A1
scaffold_X	37749347	37754417	MSTRG.20598.1	SLC35A2
scaffold_X	37749351	37764650	MSTRG.20598.2	SLC35A2
scaffold_X	37749723	37750765	MSTRG.20599.1	SLC35A2
scaffold_X	672254	682800	MSTRG.20400.1	SLC38A9
scaffold_X	128390313	128390518	MSTRG.21048.1	SLC6A8
scaffold_X	43515510	43524379	MSTRG.20655.1	SLC7A1
scaffold_X	43517289	43525726	MSTRG.20656.1	SLC7A1
scaffold_X	114611418	114664695	MSTRG.20995.1	SLC9A6
scaffold_X	122281213	122283750	SLIK2_g21828.t1	SLITRK2
scaffold_X	109554522	109565923	MSTRG.20951.1	SMARCA1
scaffold_X	109566007	109624003	MSTRG.20951.3	SMARCA1
scaffold_X	109555250	109624003	SMCA1_g21731.t1	SMCA1
scaffold_X	114397086	114397322	SIL2B_g21786.t1	SMIM10
scaffold_X	114131501	114135368	MSTRG.20986.1	SMIM10
scaffold_X	114397461	114400789	MSTRG.20990.1	SMIM10L2A
scaffold_X	15078362	15122568	MSTRG.20474.1	SMS
scaffold_X	36127165	36155727	SNX24_g21318.t1	SNX24
scaffold_X	118249823	118250932	SOX3_g21818.t1	SOX3
scaffold_X	21226489	21228885	SP20H_g21258.t1	SP20H
scaffold_X	43819564	43820376	SPIN2_g21403.t1	SPIN2A
scaffold_X	43994437	43995135	SPIN2_g21405.t1	SPIN2A

scaffold_X	43819297	43821384	MSTRG.20657.1	SPIN2B
scaffold_X	43983004	43983815	SPIN2_g21404.t1	SPIN2B
scaffold_X	43709552	43710391	SPIN3_g21402.t1	SPIN3
scaffold_X	50776623	50777372	SPIN4_g21430.t2	SPIN4
scaffold_X	106360	106622	MSTRG.20390.1	SPRYD3
scaffold_X	15078618	15122568	SPSY_g21228.t1	SPSY
scaffold_X	130166540	130167406	SPY3_g21932.t1	SPY3
scaffold_X	128473688	128478091	SRPK3_g21885.t3	SRPK3
scaffold_X	29352800	29433139	SRPX_g21292.t1	SRPX
scaffold_X	86338213	86358238	SRPX2_g21566.t1	SRPX2
scaffold_X	128487765	128492060	MSTRG.21060.1	SSR4
scaffold_X	128487765	128492060	SSRD_g21887.t1	SSR4
scaffold_X	105178392	105257847	MSTRG.20950.1	STAG2
scaffold_X	105222909	105257847	MSTRG.20950.3	STAG2
scaffold_X	105258482	105292676	MSTRG.20950.5	STAG2
scaffold_X	101588921	101609059	STEEP_g21693.t1	STEEP1
scaffold_X	111656532	111738029	STK26_g21763.t1	STK26
scaffold_X	3023623	3027595	PZRN3_g21155.t1	STS
scaffold_X	37591417	37603919	SUV91_g21342.t1	SUV91
scaffold_X	10532481	10562089	SYAP1_g21200.t1	SYAP1
scaffold_X	37973394	37981357	SYPH_g21362.t1	SYP
scaffold_X	86361245	86416637	MSTRG.20806.1	SYTL4
scaffold_X	86362981	86392522	SYTL4_g21567.t1	SYTL4
scaffold_X	29192775	29316659	SYTL5_g21291.t1	SYTL5
scaffold_X	30045455	30054432	SYY_g21296.t1	SYY
scaffold_X	92071268	92073546	T22D3_g21631.t1	TSC22D3
scaffold_X	45927873	45928202	T2AG_g21415.t1	GTF2A2
scaffold_X	22676041	22742171	MSTRG.20505.3	TAB3
scaffold_X	22681683	22709605	TAB3_g21263.t1	TAB3
scaffold_X	22675594	22742171	MSTRG.20505.1	TAB3
scaffold_X	58187239	58254582	MSTRG.20719.1	TAF1
scaffold_X	58187239	58254582	TAF1_g21477.t1	TAF1
scaffold_X	86988224	87008944	TAF7L_g21576.t1	TAF7L
scaffold_X	63648380	63656370	TAF9B_g21511.t1	TAF9B
scaffold_X	66976866	66979111	TASL_g21527.t1	TASL
scaffold_X	128958722	128968092	TAZ_g21905.t1	TAFAZZIN
scaffold_X	128958399	128968092	MSTRG.21075.1	TAZ
scaffold_X	91311518	91312013	MSTRG.20860.1	TBC1D8B
scaffold_X	91266059	91270611	MSTRG.20861.2	TBC1D8B
scaffold_X	91249173	91311026	TBC8B_g21621.t1	TBC8B
scaffold_X	88705484	88706631	TCAL1_g21601.t1	TCEAL1
scaffold_X	88662742	88663610	TCAL4_g21600.t1	TCEAL4
scaffold_X	88452035	88452988	TCAL8_g21598.t1	TCEAL8
scaffold_X	88351154	88351525	TCAL9_g21595.t1	TCEAL9
scaffold_X	88704472	88706631	MSTRG.20846.1	TCEAL1

scaffold_X	88673359	88674510	MSTRG.20844.1	TCEAL3
scaffold_X	88661633	88663610	MSTRG.20845.1	TCEAL4
scaffold_X	88450841	88452988	MSTRG.20842.1	TCEAL8
scaffold_X	7882730	7883747	TEANC_g21178.t1	TEANC
scaffold_X	7882679	7883747	TEANC_g21178.t2	TEANC
scaffold_X	65827125	65828297	TET5D_g21523.t1	TENT5D
scaffold_X	37855473	37867083	MSTRG.20602.1	TFE3
scaffold_X	37857531	37867083	TFE3_g21354.t1	TFE3
scaffold_X	104890468	104890669	MSTRG.20942.1	THOC2
scaffold_X	37741530	37744918	TI17B_g21347.t1	TIMM17B
scaffold_X	93538420	93564545	BROMI_g21644.t1	TIGD1
scaffold_X	87041622	87043444	TIM8A_g21577.t1	TIM8A
scaffold_X	36918420	36922417	MSTRG.20579.1	TIMP1
scaffold_X	36919482	36922417	TIMP1_g21327.t1	TIMP1
scaffold_X	128850460	128878870	TKTL1_g21900.t1	TKTL1
scaffold_X	7158032	7161172	TLR7_g21173.t1	TLR7
scaffold_X	7197203	7200319	TLR8_g21174.t1	TLR8
scaffold_X	93847722	94010694	TM164_g21645.t1	TMEM164
scaffold_X	128677088	128678124	TM187_g21896.t1	TMEM187
scaffold_X	115392838	115468125	TM9S2_g21803.t1	TM9S2
scaffold_X	93846574	94014895	MSTRG.20881.1	TMEM164
scaffold_X	93847035	94014895	MSTRG.20881.2	TMEM164
scaffold_X	125381809	125385656	MSTRG.21029.1	TMEM185A
scaffold_X	128672978	128678124	MSTRG.21066.1	TMEM187
scaffold_X	26127213	26129882	MSTRG.20507.1	TMEM47
scaffold_X	28517025	28574466	MSTRG.20514.1	TMEM47
scaffold_X	28517025	28529545	MSTRG.20514.2	TMEM47
scaffold_X	129990897	130069005	MSTRG.21098.1	TMLHE
scaffold_X	26130269	26155691	TMM47_g21273.t1	TMEM47
scaffold_X	28517290	28529545	TMM47_g21283.t1	TMEM47
scaffold_X	87651860	87654858	MSTRG.20835.1	TMSB15B
scaffold_X	118770069	118770270	MSTRG.21013.1	TPP1
scaffold_X	7926017	7941464	MSTRG.20431.1	TRAPPC2
scaffold_X	128130817	128131561	TREX2_g21874.t1	TREX2
scaffold_X	5053975	5154478	TRI18_g21165.t1	TRI18
scaffold_X	92184972	92265546	TRIM1_g21632.t1	TRIM1
scaffold_X	86765528	86796943	TRM2_g21572.t1	TRM2
scaffold_X	37415796	37420195	TRM7_g21337.t1	FTSJ1
scaffold_X	86764766	86796943	MSTRG.20811.2	TRMT2B
scaffold_X	86764659	86802668	MSTRG.20811.1	TRMT2B
scaffold_X	86774226	86791876	MSTRG.20811.4	TRMT2B
scaffold_X	95371452	95371681	MSTRG.20886.1	TRPC5
scaffold_X	95376304	95510625	TRPC5_g21662.t1	TRPC5
scaffold_X	92069981	92128700	MSTRG.20865.1	TSC22D3
scaffold_X	92069981	92128458	MSTRG.20865.2	TSC22D3

scaffold_X	29596565	29614634	TSN7_g21294.t1	TSN7
scaffold_X	29645650	29766277	TSN7_g21294.t2	TSN7
scaffold_X	98819275	98819580	TSP4_g21674.t1	THBS4
scaffold_X	86322323	86329224	MSTRG.20803.1	TSPAN6
scaffold_X	40845691	40849807	TSR2_g21383.t1	TSR2
scaffold_X	72111728	72111939	MSTRG.20782.1	TTC7A
scaffold_X	38656959	38657184	MSTRG.20616.1	TTLL9
scaffold_X	4095330	4095531	MSTRG.20412.1	TVP23B
scaffold_X	10581002	10636677	MSTRG.20448.1	TXLNG
scaffold_X	10609852	10634247	MSTRG.20448.3	TXLNG
scaffold_X	10617592	10627410	MSTRG.20448.4	TXLNG
scaffold_X	7232725	7235070	TYB4_g21175.t1	TYB4
scaffold_X	47393388	47395392	TYB4_g21417.t1	TYB4
scaffold_X	15008031	15010535	TYY1_g21227.t1	YY1
scaffold_X	73441191	73441637	UB2D2_g21542.t1	UB2D2
scaffold_X	36627794	36630275	MSTRG.20567.1	UBA1
scaffold_X	36632830	36633402	MSTRG.20570.1	UBA1
scaffold_X	101619010	101627776	UBE2A_g21694.t1	UBE2A
scaffold_X	95216578	95216979	UBIM_g21658.t1	UBIM
scaffold_X	129046654	129047648	UBL4A_g21911.t1	UBL4A
scaffold_X	129044953	129047648	MSTRG.21080.1	UBL4A
scaffold_X	94270945	94271580	UBP24_g21647.t1	UBP24
scaffold_X	85435741	85436235	UBP25_g21561.t1	UBP25
scaffold_X	112569411	112572179	UBP26_g21768.t2	UBP26
scaffold_X	38234981	38235403	UBP27_g21369.t1	USP27X
scaffold_X	43209611	43211491	UBQL2_g21399.t1	UBQL2
scaffold_X	43211752	43212669	MSTRG.20649.1	UBQLN2
scaffold_X	102444601	102447545	UBXN8_g21713.t1	UBXN8
scaffold_X	110305955	110338377	UCP5_g21746.t1	SLC25A14
scaffold_X	61577799	61604467	MSTRG.20749.1	UPRT
scaffold_X	118761243	118761784	MSTRG.21012.1	USP25
scaffold_X	31720874	31824457	USP9X_g21301.t1	USP9X
scaffold_X	109947954	109966682	MSTRG.20955.1	UTP14A
scaffold_X	36982463	36987663	UXT_g21330.t1	UXT
scaffold_X	36982159	36987663	MSTRG.20577.1	UXT
scaffold_X	36982432	36986224	MSTRG.20577.2	UXT
scaffold_X	130254049	130291689	MSTRG.21102.1	VAMP7
scaffold_X	130261082	130290591	VAMP7_g21933.t1	VAMP7
scaffold_X	128982120	128988964	VAS1_g21906.t1	ATP6AP1
scaffold_X	129270782	129271012	MSTRG.21087.1	VBP1
scaffold_X	126553279	126553892	MSTRG.21036.1	VMA21
scaffold_X	126554189	126554410	MSTRG.21037.1	VMA21
scaffold_X	126547216	126553054	VMA21_g21849.t1	VMA21
scaffold_X	53145305	53168777	VSIG4_g21439.t1	VSIG4
scaffold_X	88350695	88352523	MSTRG.20839.1	WBP5

scaffold_X	88350697	88351950	MSTRG.20839.2	WBP5
scaffold_X	37503918	37510621	MSTRG.20590.1	WDR13
scaffold_X	37503921	37510621	MSTRG.20590.2	WDR13
scaffold_X	37503922	37510621	MSTRG.20590.3	WDR13
scaffold_X	37504179	37510621	MSTRG.20590.4	WDR13
scaffold_X	37490826	37492817	WDR13_g21341.t1	WDR13
scaffold_X	37504415	37510621	WDR13_g21341.t2	WDR13
scaffold_X	1303614	1306321	WDR18_g21151.t1	WDR18
scaffold_X	100662267	100670934	MSTRG.20900.1	WDR44
scaffold_X	37892321	37897975	MSTRG.20605.1	WDR45
scaffold_X	37892457	37896411	MSTRG.20605.2	WDR45
scaffold_X	81430845	81431606	WDR48_g21554.t1	WDR48
scaffold_X	81429605	81429954	MSTRG.20794.1	WDR48
scaffold_X	37892839	37896411	WIPI4_g21357.t1	WIPI4
scaffold_X	40943077	41073041	WNK3_g21384.t1	WNK3
scaffold_X	40924666	41076751	MSTRG.20628.1	WNK3
scaffold_X	4651694	4757505	WWC3_g21163.t1	WWC3
scaffold_X	4682817	4759677	MSTRG.20419.2	WWC3
scaffold_X	4682817	4759677	MSTRG.20419.3	WWC3
scaffold_X	105103854	105144924	MSTRG.20940.1	XIAP
scaffold_X	105123690	105144924	XIAP_g21720.t1	XIAP
scaffold_X	86690310	86716012	XKR2_g21570.t1	XKR2
scaffold_X	109806985	109842863	XPP2_g21735.t1	XPP2
scaffold_X	36415103	36444961	XRP2_g21321.t1	RP2
scaffold_X	55622156	55642662	YIPF6_g21448.t1	YIPF6
scaffold_X	110189875	110237282	Z280C_g21745.t1	ZNF280C
scaffold_X	102080792	102088598	MSTRG.20928.1	ZBTB33
scaffold_X	52754228	52765814	ZC12B_g21436.t1	ZC12B
scaffold_X	85094	85441	MSTRG.20394.1	ZC3H7A
scaffold_X	52312168	52345879	ZC4H2_g21435.t1	ZC4H2
scaffold_X	52310850	52342764	MSTRG.20666.1	ZC4H2
scaffold_X	101055296	101056432	ZCH12_g21685.t1	ZCCHC12
scaffold_X	101055224	101056432	ZCH12_g21685.t2	ZCCHC12
scaffold_X	61667092	61754225	ZDH15_g21501.t1	ZDHHC15
scaffold_X	109875906	109904481	ZDHC9_g21737.t1	ZDHHC9
scaffold_X	61658250	61658648	MSTRG.20748.1	ZDHHC15
scaffold_X	109874419	109906229	MSTRG.20954.1	ZDHHC9
scaffold_X	128104371	128117946	MSTRG.21046.2	ZFP92
scaffold_X	128108976	128115466	ZFP92_g21873.t1	ZFP92
scaffold_X	16735051	16786437	MSTRG.20489.1	ZFX
scaffold_X	16735692	16786437	MSTRG.20489.2	ZFX
scaffold_X	16756072	16785709	ZFX_g21238.t1	ZFX
scaffold_X	45870724	45896283	ZFX_g21414.t1	ZFX
scaffold_X	87504207	87544716	ZMAT1_g21588.t2	ZMAT1
scaffold_X	58078347	58092753	MSTRG.20710.1	ZMYM3

scaffold_X	58078360	58092753	MSTRG.20710.2	ZMYM3
scaffold_X	58078377	58092753	MSTRG.20710.3	ZMYM3
scaffold_X	127676828	127733699	ZN185_g21858.t1	ZNF185
scaffold_X	128040139	128041812	ZN275_g21871.t1	ZNF275
scaffold_X	114351783	114372183	ZN449_g21785.t1	ZNF449
scaffold_X	37315808	37367662	ZN630_g21333.t1	ZNF630
scaffold_X	36090774	36093431	ZN674_g21316.t1	ZNF674
scaffold_X	70956176	70979150	ZN711_g21536.t1	ZNF711
scaffold_X	114225553	114234716	ZN75D_g21783.t1	ZNF75D
scaffold_X	37272906	37298784	MSTRG.20580.1	ZNF182
scaffold_X	37272918	37298784	MSTRG.20580.2	ZNF182
scaffold_X	37272921	37298784	MSTRG.20580.3	ZNF182
scaffold_X	128029052	128046212	MSTRG.21045.1	ZNF275
scaffold_X	128038391	128046212	MSTRG.21045.3	ZNF275
scaffold_X	110188264	110246037	MSTRG.20961.1	ZNF280C
scaffold_X	130476465	130476717	MSTRG.21105.1	ZNF324
scaffold_X	37311160	37311633	MSTRG.20582.1	ZNF37A
scaffold_X	36768580	36777927	MSTRG.20573.1	ZNF41
scaffold_X	36099116	36127401	MSTRG.20560.1	ZNF674
scaffold_X	36099138	36126821	MSTRG.20560.2	ZNF674
scaffold_X	36061944	36093730	MSTRG.20562.1	ZNF674
scaffold_X	36062092	36093431	MSTRG.20562.2	ZNF674
scaffold_X	36062100	36095552	MSTRG.20562.3	ZNF674
scaffold_X	70952546	70979150	MSTRG.20777.1	ZNF711
scaffold_X	114223660	114234716	MSTRG.20987.1	ZNF75D
scaffold_X	37046021	37049350	ZNF81_g21331.t1	ZNF81
scaffold_X	37126822	37185826	ZNF81_g21331.t2	ZNF81
scaffold_X	20542572	20542799	MSTRG.20499.1	ZPBP2
scaffold_Y_1	6322104	6328852	AK17A_g21961.t1	AKAP17A
scaffold_Y_1	6320401	6332695	MSTRG.21145.1	AKAP17A
scaffold_Y_1	6320438	6328852	MSTRG.21145.2	AKAP17A
scaffold_Y_1	6321147	6332695	MSTRG.21145.3	AKAP17A
scaffold_Y_1	1200460	1328784	MSTRG.21116.1	ANOS1
scaffold_Y_1	1337835	1386778	MSTRG.21116.4	ANOS1
scaffold_Y_1	5550827	5575925	ARSD_g21956.t1	ARSD
scaffold_Y_1	6418009	6444066	ASML_g21965.t1	ASMTL
scaffold_Y_1	6293852	6304364	ASMT_g21960.t2	ASMT
scaffold_Y_1	6293852	6308215	ASMT_g21960.t3	ASMT
scaffold_Y_1	6417949	6444066	MSTRG.21147.1	ASMT
scaffold_Y_1	166496	167143	CLD34_g21936.t1	CLDN34
scaffold_Y_1	6603374	6624192	CRLF2_g21969.t1	CRLF2
scaffold_Y_1	6535122	6554564	CSF2R_g21968.t1	CSF3R
scaffold_Y_1	5906533	6047913	DHRSX_g21959.t1	DHRSX
scaffold_Y_1	381870	385220	DISP1_g21939.t1	DISP1
scaffold_Y_1	5724866	5763969	GLYG2_g21957.t3	GYG2

scaffold_Y_1	337953	354507	GP143_g21938.t1	GPR143
scaffold_Y_1	356833	378576	GP143_g21938.t2	GPR143
scaffold_Y_1	357193	378576	MSTRG.21113.2	GPR143
scaffold_Y_1	7413833	7426732	GTPB6_g21980.t1	GTPBP6
scaffold_Y_1	2526571	2578501	HDHD1_g21948.t1	PUDP
scaffold_Y_1	1200460	1240330	KALM_g21942.t1	KALM
scaffold_Y_1	1281240	1386778	KALM_g21943.t1	KALM
scaffold_Y_1	35097	35708	MSTRG.21109.2	LDHAL6A
scaffold_Y_1	7376701	7376929	MSTRG.21150.1	LOC102148365
scaffold_Y_1	494685	495062	LORF2_g21941.t1	LORF2
scaffold_Y_1	5283689	5284260	MSTRG.21130.1	MXRA5
scaffold_Y_1	5256941	5283369	MXRA5_g21953.t1	MXRA5
scaffold_Y_1	5678443	5713178	GLYG2_g21957.t2	GLYG2_g21957.t2
scaffold_Y_1	7377461	7390066	MSTRG.21153.2	MSTRG.21153.2
scaffold_Y_1	7408533	7426732	MSTRG.21154.2	MSTRG.21154.2
scaffold_Y_1	7310019	7375569	P2R3B_g21977.t1	P2R3B_g21977.t1
scaffold_Y_1	19736	19956	MSTRG.21110.1	NOTHING
scaffold_Y_1	320923	354507	MSTRG.21112.1	NOTHING
scaffold_Y_1	1670812	1671016	MSTRG.21117.1	NOTHING
scaffold_Y_1	1695677	1695923	MSTRG.21118.1	NOTHING
scaffold_Y_1	1758554	1764413	MSTRG.21119.1	NOTHING
scaffold_Y_1	1769755	1772302	MSTRG.21120.1	NOTHING
scaffold_Y_1	1778532	1778732	MSTRG.21121.1	NOTHING
scaffold_Y_1	1792560	1792778	MSTRG.21122.1	NOTHING
scaffold_Y_1	1796723	1797152	MSTRG.21123.1	NOTHING
scaffold_Y_1	1825422	1894825	MSTRG.21124.1	NOTHING
scaffold_Y_1	2579120	2579583	MSTRG.21127.1	NOTHING
scaffold_Y_1	5141415	5141624	MSTRG.21128.1	NOTHING
scaffold_Y_1	5621465	5621666	MSTRG.21132.1	NOTHING
scaffold_Y_1	5733807	5739506	MSTRG.21134.1	NOTHING
scaffold_Y_1	6063395	6063605	MSTRG.21135.1	NOTHING
scaffold_Y_1	5876059	5889544	MSTRG.21137.1	NOTHING
scaffold_Y_1	5876078	5889544	MSTRG.21137.2	NOTHING
scaffold_Y_1	5876312	5889544	MSTRG.21137.3	NOTHING
scaffold_Y_1	5908612	5908831	MSTRG.21139.1	NOTHING
scaffold_Y_1	5932792	5933016	MSTRG.21141.1	NOTHING
scaffold_Y_1	6048167	6049449	MSTRG.21143.1	NOTHING
scaffold_Y_1	6087582	6087890	MSTRG.21144.1	NOTHING
scaffold_Y_1	6448677	6448877	MSTRG.21146.1	NOTHING
scaffold_Y_1	7342269	7342469	MSTRG.21152.1	NOTHING
scaffold_Y_1	7377461	7387516	MSTRG.21153.1	NOTHING
scaffold_Y_1	7377472	7385585	MSTRG.21153.3	NOTHING
scaffold_Y_1	7377475	7406440	MSTRG.21153.4	NOTHING
scaffold_Y_1	7408533	7426732	MSTRG.21154.1	NOTHING
scaffold_Y_1	7527735	7527942	MSTRG.21155.1	NOTHING

scaffold_Y_1	6075473	6075692	MSTRG.21136.1	PBDC1
scaffold_Y_1	7474013	7474330	PLCX1_g21981.t2	PLCX1
scaffold_Y_1	1896229	1923812	PLPL4_g21944.t1	PNPLA4
scaffold_Y_1	4974230	5077117	MSTRG.21129.1	PRKX
scaffold_Y_1	4974285	5007669	MSTRG.21129.2	PRKX
scaffold_Y_1	181298	320374	SHRM2_g21937.t1	SHROOM2
scaffold_Y_1	6449170	6453300	MSTRG.21148.1	SLC25A6
scaffold_Y_1	2369040	2448100	STS_g21947.t2	STS
scaffold_Y_1	381819	601505	MSTRG.21114.1	TBL1X
scaffold_Y_1	381819	599763	MSTRG.21114.2	TBL1X
scaffold_Y_1	381828	599763	MSTRG.21114.3	TBL1X
scaffold_Y_1	381828	479717	MSTRG.21114.4	TBL1X
scaffold_Y_1	385221	440870	TBL1X_g21940.t1	TBL1X
scaffold_Y_1	7309306	7309510	MSTRG.21149.1	TNRC18
scaffold_Y_1	35097	35396	WWC2_g21934.t2	WWC2
scaffold_Y_1	5882565	5886051	ZBED1_g21958.t1	ZBED1
scaffold_Y_1	5722060	5763969	MSTRG.21133.1	ZBED9
scaffold_Y_1	5912738	5912939	MSTRG.21140.1	ZNF180
scaffold_Y_10	449728	470557	GNDS_g21984.t1	GNDS_g21984.t1
scaffold_Y_10	326619	345296	MSTRG.21161.1	MSTRG.21161.1
scaffold_Y_10	138111	138366	MSTRG.21156.1	NOTHING
scaffold_Y_10	233756	234006	MSTRG.21158.1	NOTHING
scaffold_Y_10	148684	150883	MSTRG.21159.2	NOTHING
scaffold_Y_10	345768	352060	MSTRG.21160.1	NOTHING
scaffold_Y_10	326924	345296	MSTRG.21161.2	NOTHING
scaffold_Y_10	326956	345296	MSTRG.21161.4	NOTHING
scaffold_Y_10	327137	345296	MSTRG.21161.5	NOTHING
scaffold_Y_10	474423	474869	MSTRG.21162.1	NOTHING
scaffold_Y_10	493499	493806	MSTRG.21163.1	NOTHING
scaffold_Y_10	471028	473624	P3H1_g21985.t1	P3H1
scaffold_Y_10	140992	150883	RPGR_g21982.t1	RPGR
scaffold_Y_10	152181	152472	MSTRG.21157.1	TMEM161A
scaffold_Y_100	14686	34897	MSTRG.21166.1	SPRING1
scaffold_Y_100	14686	35232	MSTRG.21166.2	SPRING1
scaffold_Y_100	62947	63546	CHM1B_g21990.t1	CHMP1B
scaffold_Y_100	13900	14850	CLIP1_g21986.t1	CLIP1
scaffold_Y_100	24152	34059	MPPE1_g21987.t1	MPPE1
scaffold_Y_100	24326	32018	MSTRG.21166.4	NOTHING
scaffold_Y_102	68795	79313	ACSM1_g21991.t2	ACSM1_g21991.t2
scaffold_Y_102	62960	63182	MSTRG.21169.1	NOTHING
scaffold_Y_105	16655	16878	MSTRG.21170.1	KATNAL1
scaffold_Y_107	19039	35607	MSTRG.21172.1	HDHD5
scaffold_Y_107	19082	35607	MSTRG.21172.2	HDHD5
scaffold_Y_107	19082	35607	MSTRG.21172.4	HDHD5
scaffold_Y_107	19082	35607	MSTRG.21172.5	HDHD5

scaffold_Y_107	19087	35607	MSTRG.21172.6	HDHD5
scaffold_Y_107	19619	35607	HDHD5_g21994.t1	HDHD5
scaffold_Y_107	19082	35607	MSTRG.21172.3	HDHD5
scaffold_Y_108	6849	63070	ECHD1_g21995.t1	ECHDC1
scaffold_Y_108	8168	23349	MSTRG.21173.2	ECHDC1
scaffold_Y_108	3690	3894	MSTRG.21171.1	NOTHING
scaffold_Y_109	12583	33957	SBSPO_g21996.t1	SBSPON
scaffold_Y_109	52964	75499	YG046_g21998.t1	YG046
scaffold_Y_11	361909	362517	MSTRG.21176.1	BEX3
scaffold_Y_11	362909	363467	MSTRG.21175.1	TCEAL1
scaffold_Y_110	25991	34252	DPOE4_g22002.t1	POLE4
scaffold_Y_112	47723	48003	MSTRG.21180.1	GCGR
scaffold_Y_112	53468	67065	MSTRG.21181.1	SDHAF4
scaffold_Y_112	55772	74007	SDHF4_g22004.t1	SDHF4
scaffold_Y_112	1142	1259	SMAP1_g22003.t1	SMAP1
scaffold_Y_114	63993	73735	CC150_g22009.t1	CCDC150
scaffold_Y_115	39848	40081	MSTRG.21179.1	NOTHING
scaffold_Y_115	62207	62410	MSTRG.21182.1	NOTHING
scaffold_Y_117	71604	71833	MSTRG.21183.1	NOTHING
scaffold_Y_118	52186	68043	MDHC_g22010.t1	MDFIC
scaffold_Y_119	38507	69950	MSTRG.21185.1	NRAS
scaffold_Y_119	38508	73677	MSTRG.21185.2	NRAS
scaffold_Y_12	80069	80302	TITIN_g22012.t1	POLR1G
scaffold_Y_12	229348	234274	MSTRG.21222.1	IDUA
scaffold_Y_12	339442	344397	MSTRG.21229.1	IDUA
scaffold_Y_12	339442	344397	MSTRG.21229.2	IDUA
scaffold_Y_12	13707	28028	MSTRG.21188.2	MBD3
scaffold_Y_12	14194	21806	MSTRG.21188.3	MBD3
scaffold_Y_12	31511	63202	MSTRG.21191.1	MBD3L5
scaffold_Y_12	52422	58738	MSTRG.21191.7	MUC16
scaffold_Y_12	52422	60132	MSTRG.21191.8	MUC16
scaffold_Y_12	236006	242794	MSTRG.21221.10	MSTRG.21221.10
scaffold_Y_12	2687	9335	MSTRG.21186.1	NOTHING
scaffold_Y_12	5721	9968	MSTRG.21186.2	NOTHING
scaffold_Y_12	5721	9968	MSTRG.21186.3	NOTHING
scaffold_Y_12	5722	13610	MSTRG.21186.4	NOTHING
scaffold_Y_12	10615	21806	MSTRG.21188.1	NOTHING
scaffold_Y_12	63585	66137	MSTRG.21190.1	NOTHING
scaffold_Y_12	63585	66137	MSTRG.21190.2	NOTHING
scaffold_Y_12	39053	62631	MSTRG.21191.3	NOTHING
scaffold_Y_12	39062	63202	MSTRG.21191.4	NOTHING
scaffold_Y_12	48568	62289	MSTRG.21191.5	NOTHING
scaffold_Y_12	48568	62631	MSTRG.21191.6	NOTHING
scaffold_Y_12	54270	62631	MSTRG.21191.9	NOTHING
scaffold_Y_12	66512	85624	MSTRG.21192.1	NOTHING

scaffold_Y_12	66512	85624	MSTRG.21192.2	NOTHING
scaffold_Y_12	361561	368965	MSTRG.21194.1	NOTHING
scaffold_Y_12	369046	373691	MSTRG.21195.1	NOTHING
scaffold_Y_12	90365	118661	MSTRG.21219.1	NOTHING
scaffold_Y_12	90365	118661	MSTRG.21219.2	NOTHING
scaffold_Y_12	90365	116909	MSTRG.21219.3	NOTHING
scaffold_Y_12	90365	118661	MSTRG.21219.4	NOTHING
scaffold_Y_12	120760	303848	MSTRG.21220.1	NOTHING
scaffold_Y_12	120760	303495	MSTRG.21220.2	NOTHING
scaffold_Y_12	123386	206690	MSTRG.21220.3	NOTHING
scaffold_Y_12	123386	213304	MSTRG.21220.4	NOTHING
scaffold_Y_12	141695	224413	MSTRG.21221.1	NOTHING
scaffold_Y_12	236006	239224	MSTRG.21221.11	NOTHING
scaffold_Y_12	288023	303850	MSTRG.21221.15	NOTHING
scaffold_Y_12	344600	349993	MSTRG.21221.19	NOTHING
scaffold_Y_12	141695	334448	MSTRG.21221.2	NOTHING
scaffold_Y_12	141695	184200	MSTRG.21221.3	NOTHING
scaffold_Y_12	141697	334448	MSTRG.21221.4	NOTHING
scaffold_Y_12	145156	192976	MSTRG.21221.5	NOTHING
scaffold_Y_12	145156	164688	MSTRG.21221.6	NOTHING
scaffold_Y_12	159919	334448	MSTRG.21221.7	NOTHING
scaffold_Y_12	159970	357245	MSTRG.21221.8	NOTHING
scaffold_Y_12	243186	244805	MSTRG.21224.1	NOTHING
scaffold_Y_12	253637	253968	MSTRG.21226.1	NOTHING
scaffold_Y_12	306381	318978	MSTRG.21227.1	NOTHING
scaffold_Y_12	309377	318978	MSTRG.21227.2	NOTHING
scaffold_Y_12	316176	318978	MSTRG.21227.4	NOTHING
scaffold_Y_12	319442	320352	MSTRG.21228.1	NOTHING
scaffold_Y_12	352202	354000	MSTRG.21230.1	NOTHING
scaffold_Y_12	354397	358829	MSTRG.21231.1	NOTHING
scaffold_Y_12	347877	353170	MSTRG.21221.20	NOXA1
scaffold_Y_12	291851	303850	MSTRG.21221.16	PEX3
scaffold_Y_12	244875	247332	MSTRG.21225.1	RALGDS
scaffold_Y_12	37580	63202	MSTRG.21191.2	RGL1
scaffold_Y_12	269757	283421	MSTRG.21221.14	XRN2
scaffold_Y_12	93550	135636	XRN2_g22013.t1	XRN2
scaffold_Y_12	190823	357245	XRN2_g22014.t1	XRN2
scaffold_Y_12	95788	118661	MSTRG.21219.11	XRN2
scaffold_Y_12	92059	118661	MSTRG.21219.5	XRN2
scaffold_Y_12	92059	100039	MSTRG.21219.6	XRN2
scaffold_Y_12	92059	118661	MSTRG.21219.7	XRN2
scaffold_Y_12	92062	118661	MSTRG.21219.8	XRN2
scaffold_Y_12	92062	111053	MSTRG.21219.9	XRN2
scaffold_Y_12	269707	334448	MSTRG.21221.12	XRN2
scaffold_Y_12	269757	283421	MSTRG.21221.13	XRN2

scaffold_Y_12	329276	334448	MSTRG.21221.17	ZNF558
scaffold_Y_12	330434	334448	MSTRG.21221.18	ZNF558
scaffold_Y_12	30049	30275	MSTRG.21189.1	ZNF850
scaffold_Y_120	1	32204	DCTN4_g22015.t1	DCTN4
scaffold_Y_120	28754	28967	MSTRG.21197.1	NOTHING
scaffold_Y_121	24578	27828	MSTRG.21199.1	GRINA
scaffold_Y_121	25667	27828	LFG1_g22018.t1	GRINA
scaffold_Y_121	14879	22687	PAR10_g22017.t2	PARP10
scaffold_Y_121	12606	12833	PAR10_g22017.t1	PLEC
scaffold_Y_121	54967	70531	SPERI_g22020.t1	SPERI
scaffold_Y_122	1	817	LOX12_g22021.t1	LOX12
scaffold_Y_122	1108	69685	PGRC1_g22022.t1	PGRMC1
scaffold_Y_123	14806	67363	EXO1_g22023.t1	EXO1
scaffold_Y_123	54962	55200	MSTRG.21201.1	NOTHING
scaffold_Y_124	6381	21520	CELF2_g22024.t1	CELF2
scaffold_Y_124	60332	69970	KANL3_g22025.t1	KANSL3
scaffold_Y_126	1715	35982	FA13A_g22026.t1	FAM13A
scaffold_Y_126	52504	63167	HERC3_g22027.t1	HERC3
scaffold_Y_126	3883	4223	MSTRG.21203.1	NOTHING
scaffold_Y_126	63479	64006	NP1L5_g22028.t1	NAP1L5
scaffold_Y_13	283081	283366	MSTRG.21208.1	CTDSPL2
scaffold_Y_13	157957	158179	MSTRG.21204.1	NOTHING
scaffold_Y_130	45828	70928	MTM1_g22036.t1	MTM1
scaffold_Y_130	21301	21561	MSTRG.21207.1	NOTHING
scaffold_Y_131	26702	27137	MSTRG.21211.1	EOLA2
scaffold_Y_131	25132	26447	EOLA1_g22039.t1	EOLA1
scaffold_Y_131	57007	66145	PASD1_g22042.t2	PASD1
scaffold_Y_132	52786	53175	H2AJ_g22044.t1	H2AJ
scaffold_Y_132	49219	49530	H4_g22043.t1	H4C6
scaffold_Y_132	68338	71569	WBP11_g22045.t1	WBP11
scaffold_Y_133	10216	13071	DNAS1_g22047.t1	DNASE1
scaffold_Y_133	60246	64869	MSTRG.21216.1	SLX4
scaffold_Y_133	62630	64869	SLX4_g22048.t1	SLX4
scaffold_Y_133	108	9703	ACTY_g22046.t1	TRAP1
scaffold_Y_134	1059	69016	FMO3_g22049.t1	FMO3
scaffold_Y_137	1553	33363	KCNJ5_g22050.t1	KCNJ5
scaffold_Y_138	47657	66698	CATH_g22053.t1	CTSH
scaffold_Y_139	49028	64049	MSTRG.21218.2	RAD50
scaffold_Y_139	48977	64483	RAD50_g22055.t1	RAD50
scaffold_Y_14	66663	67427	FA156_g22056.t1	FAM156A
scaffold_Y_14	64836	110809	MSTRG.21232.1	FAM156A
scaffold_Y_14	65851	110809	MSTRG.21232.2	FAM156A
scaffold_Y_14	246701	260595	MAGH1_g22057.t1	MAGH1
scaffold_Y_14	327286	327591	MSTRG.21239.1	NOTHING
scaffold_Y_14	290572	292524	UBP51_g22058.t2	UBP51

scaffold_Y_140	20730	23333	F104B_g22059.t1	F104B
scaffold_Y_141	79	21284	UNG_g22060.t1	UNG
scaffold_Y_147	13458	58075	NLRP1_g22067.t1	NLRP1
scaffold_Y_15	243090	243296	MSTRG.21235.1	CD22
scaffold_Y_15	308320	308934	MSTRG.21241.1	DERL3
scaffold_Y_15	16036	78146	IBP4_g22070.t1	IGFBP4
scaffold_Y_15	79315	79517	MSTRG.21234.1	MYO7A
scaffold_Y_15	222650	222873	MSTRG.21233.1	NOTHING
scaffold_Y_15	251587	251818	MSTRG.21236.1	NOTHING
scaffold_Y_15	302609	306042	MSTRG.21240.1	SMARCB1
scaffold_Y_15	258232	265626	TBA3_g22072.t1	TBA3
scaffold_Y_151	20606	55659	NPL_g22074.t1	NPL
scaffold_Y_152	59157	59684	RL4_g22075.t1	RPL4
scaffold_Y_152	59789	60036	MSTRG.21243.1	RPL4
scaffold_Y_154	32465	63559	BCAR3_g22077.t1	BCAR3
scaffold_Y_154	29615	66987	MSTRG.21247.1	BCAR3
scaffold_Y_154	62	22357	FBP1L_g22076.t1	FNBP1L
scaffold_Y_155	18963	19212	MSTRG.21245.1	MYBL1
scaffold_Y_155	905	1109	MSTRG.21244.1	NOTHING
scaffold_Y_155	25316	25564	MSTRG.21246.1	NOTHING
scaffold_Y_155	42799	43009	MSTRG.21248.1	NOTHING
scaffold_Y_155	29411	29688	MSTRG.21249.1	NOTHING
scaffold_Y_155	57058	57278	MSTRG.21250.1	NOTHING
scaffold_Y_155	67620	67863	MSTRG.21251.1	NOTHING
scaffold_Y_155	53317	53649	MSTRG.21252.1	NOTHING
scaffold_Y_155	36127	36406	MSTRG.21253.1	NOTHING
scaffold_Y_155	66777	67001	MSTRG.21254.1	NOTHING
scaffold_Y_155	40145	40376	MSTRG.21255.1	NOTHING
scaffold_Y_157	2784	7362	NUDC3_g22078.t1	NUDCD3
scaffold_Y_157	2784	7362	NUDC3_g22078.t2	NUDCD3
scaffold_Y_157	3139	7362	NUDC3_g22078.t3	NUDCD3
scaffold_Y_158	57804	63002	PR20E_g22079.t2	PRR20E
scaffold_Y_16	169579	175012	MSTRG.21266.1	EOLA1
scaffold_Y_16	169611	175012	MSTRG.21266.2	EOLA1
scaffold_Y_16	169611	175012	MSTRG.21266.3	EOLA1
scaffold_Y_16	220326	224101	MSTRG.21268.2	EOLA1
scaffold_Y_16	220326	223998	MSTRG.21268.3	EOLA1
scaffold_Y_16	220328	223998	MSTRG.21268.4	EOLA1
scaffold_Y_16	208714	225394	EOLA1_g22088.t1	EOLA1
scaffold_Y_16	26551	29519	EOLAL_g22081.t1	EOLA2
scaffold_Y_16	175683	177174	HSFX3_g22086.t1	HSFX3
scaffold_Y_16	226683	227851	HSFX3_g22089.t1	HSFX3
scaffold_Y_16	225798	226139	MSTRG.21267.1	HSFX3
scaffold_Y_16	37457	37693	MSTRG.21259.1	KCNH8
scaffold_Y_16	164783	169499	MSTRG.21265.1	LOC106781075

scaffold_Y_16	215727	218327	MSTRG.21269.1	LOC106781075
scaffold_Y_16	215742	219618	MSTRG.21269.2	LOC106781075
scaffold_Y_16	33782	34008	MSTRG.21257.1	MSTRG.21257.1
scaffold_Y_16	25728	29519	MSTRG.21261.1	MSTRG.21261.1
scaffold_Y_16	166220	169499	MSTRG.21265.3	MSTRG.21265.3
scaffold_Y_16	34914	35238	MSTRG.21258.1	NOTHING
scaffold_Y_16	25928	29519	MSTRG.21261.2	NOTHING
scaffold_Y_16	30021	31065	MSTRG.21262.1	NOTHING
scaffold_Y_16	30342	33179	MSTRG.21263.1	NOTHING
scaffold_Y_16	166220	169499	MSTRG.21265.2	NOTHING
scaffold_Y_16	141	10375	SIM1_g22080.t1	SIM1
scaffold_Y_16	113555	137869	T185A_g22085.t1	TMEM185A
scaffold_Y_16	22520	25780	MSTRG.21260.2	ZBTB25
scaffold_Y_16	22528	25780	MSTRG.21260.3	ZBTB25
scaffold_Y_16	22520	25780	MSTRG.21260.1	ZBTB25
scaffold_Y_162	18652	65862	PGFRL_g22092.t1	PDGFRL
scaffold_Y_165	32824	33039	ARMD4_g22096.t1	LOC106800286
scaffold_Y_168	13029	13239	MSTRG.21271.1	NOTHING
scaffold_Y_169	62783	62988	MSTRG.21272.1	NOTHING
scaffold_Y_17	77634	77866	MSTRG.21273.1	NOTHING
scaffold_Y_170	41338	41649	MSTRG.21274.1	NOTHING
scaffold_Y_172	632	838	MSTRG.21275.1	SUPT3H
scaffold_Y_175	33493	42396	CAPAM_g22105.t1	PCIF1
scaffold_Y_175	956	7267	KCNQ2_g22103.t1	KCNQ2
scaffold_Y_175	1	559	NEUL2_g22102.t1	NEURL2
scaffold_Y_175	434	7267	MSTRG.21277.1	NEURL3
scaffold_Y_175	28741	42396	MSTRG.21281.1	PCIF1
scaffold_Y_175	7412	16016	PLTP_g22104.t1	PLTP
scaffold_Y_175	42396	61338	ZN335_g22106.t1	ZNF335
scaffold_Y_175	42360	62466	MSTRG.21283.1	ZNF335
scaffold_Y_175	42396	62466	MSTRG.21283.2	ZNF335
scaffold_Y_18	122879	137419	MSTRG.21284.3	DLGAP5
scaffold_Y_18	119451	137186	DLGP5_g22112.t1	DLGAP5
scaffold_Y_18	70795	91425	GCH1_g22111.t1	GCH1
scaffold_Y_18	267317	267721	MIA2_g22115.t1	MIA2
scaffold_Y_18	7696	7896	MSTRG.21278.1	MSTRG.21278.1
scaffold_Y_18	122879	137419	MSTRG.21284.2	MSTRG.21284.2
scaffold_Y_18	5913	6443	PARP4_g22110.t2	PARP4_g22110.t2
scaffold_Y_18	108594	108796	MSTRG.21280.1	NOTHING
scaffold_Y_18	102224	102442	MSTRG.21279.1	PON3
scaffold_Y_182	24872	25201	MSTRG.21294.1	NOTHING
scaffold_Y_182	15645	23044	S35G1_g22120.t1	S35G1
scaffold_Y_183	7761	22937	GNDS_g22121.t1	GNDS_g22121.t1
scaffold_Y_183	8648	13333	MSTRG.21287.1	NOTHING
scaffold_Y_183	24103	33073	MSTRG.21289.1	NOTHING

scaffold_Y_185	1051	29035	GLT10_g22124.t1	GALNT10
scaffold_Y_185	53247	53515	MSTRG.21292.1	SAP30L
scaffold_Y_185	44875	53145	SP30L_g22125.t1	SAP30L
scaffold_Y_187	1618	23951	COPG1_g22126.t1	COPG1
scaffold_Y_189	20489	20699	MSTRG.21293.1	NOTHING
scaffold_Y_189	29800	30774	UBP27_g22128.t1	USP27X
scaffold_Y_189	21689	22084	MSTRG.21295.1	USP27X
scaffold_Y_19	187533	270339	MSTRG.21298.3	MSTRG.21298.3
scaffold_Y_19	236881	253780	MSTRG.21298.5	MSTRG.21298.5
scaffold_Y_19	242217	249647	MSTRG.21298.6	MSTRG.21298.6
scaffold_Y_19	80404	80627	MSTRG.21297.1	NOTHING
scaffold_Y_19	208568	249647	MSTRG.21298.4	NOTHING
scaffold_Y_19	165271	270339	MSTRG.21298.2	SUMO1
scaffold_Y_19	88220	270339	MSTRG.21298.1	TIGD1
scaffold_Y_190	28827	51851	ABRX2_g22131.t1	ABRAXAS2
scaffold_Y_190	28779	51851	ABRX2_g22131.t2	ABRAXAS2
scaffold_Y_190	1432	21809	EFMT2_g22130.t1	EEF1AKMT2
scaffold_Y_190	1432	21809	MSTRG.21299.1	METTL10
scaffold_Y_190	1432	21809	MSTRG.21299.2	METTL10
scaffold_Y_190	35665	36021	RS3A_g22132.t1	RPS3A
scaffold_Y_191	44796	45164	SOX9_g22134.t1	SOX9
scaffold_Y_196	15772	55186	L2GL2_g22137.t1	LLGL2
scaffold_Y_197	32496	54539	BPHL_g22139.t1	BPHL
scaffold_Y_197	32496	53606	BPHL_g22139.t2	BPHL
scaffold_Y_197	5861	21240	BCL9_g22138.t1	BCL9_g22138.t1
scaffold_Y_197	25176	25387	MSTRG.21303.1	NOTHING
scaffold_Y_197	26512	31114	MSTRG.21304.1	NOTHING
scaffold_Y_198	56161	57102	SWAHD_g22140.t1	SOWAHD
scaffold_Y_2	1380724	1381524	ASPX_g22144.t1	ACRV1
scaffold_Y_2	148647	149376	MSTRG.21311.1	MBD3
scaffold_Y_2	134961	139305	MSTRG.21310.3	MUC16
scaffold_Y_2	260976	270794	MSTRG.21319.1	MUC16
scaffold_Y_2	262969	266766	MSTRG.21319.3	MUC16
scaffold_Y_2	640997	643287	MSTRG.21321.3	MUC16
scaffold_Y_2	261446	269960	MUC16_g22142.t1	MUC16
scaffold_Y_2	236379	236612	MSTRG.21312.1	MSTRG.21312.1
scaffold_Y_2	163799	164034	MSTRG.21314.1	MSTRG.21314.1
scaffold_Y_2	640968	654756	MSTRG.21321.1	MSTRG.21321.1
scaffold_Y_2	1088319	1088527	MSTRG.21325.1	MSTRG.21325.1
scaffold_Y_2	1125944	1126170	MSTRG.21326.1	MSTRG.21326.1
scaffold_Y_2	1380919	1381524	MSTRG.21331.2	MSTRG.21331.2
scaffold_Y_2	113357	113783	MSTRG.21308.1	NOTHING
scaffold_Y_2	141127	141841	MSTRG.21309.1	NOTHING
scaffold_Y_2	142285	142588	MSTRG.21313.1	NOTHING
scaffold_Y_2	247611	247876	MSTRG.21315.1	NOTHING

scaffold_Y_2	256822	257119	MSTRG.21316.1	NOTHING
scaffold_Y_2	305959	306226	MSTRG.21317.1	NOTHING
scaffold_Y_2	551823	552101	MSTRG.21318.1	NOTHING
scaffold_Y_2	942010	943926	MSTRG.21322.1	NOTHING
scaffold_Y_2	942015	943926	MSTRG.21322.2	NOTHING
scaffold_Y_2	952107	960770	MSTRG.21323.1	NOTHING
scaffold_Y_2	975009	975314	MSTRG.21324.1	NOTHING
scaffold_Y_2	1163835	1170779	MSTRG.21327.1	NOTHING
scaffold_Y_2	1190620	1190919	MSTRG.21328.1	NOTHING
scaffold_Y_2	1171073	1173691	MSTRG.21329.1	NOTHING
scaffold_Y_2	1171200	1176087	MSTRG.21329.2	NOTHING
scaffold_Y_2	1379789	1380145	MSTRG.21330.1	NOTHING
scaffold_Y_2	1383051	1385057	MSTRG.21332.1	NOTHING
scaffold_Y_2	1383051	1384283	MSTRG.21332.2	NOTHING
scaffold_Y_2	1387186	1387484	MSTRG.21333.1	NOTHING
scaffold_Y_2	1391140	1391728	MSTRG.21334.1	NOTHING
scaffold_Y_2	1392263	1398276	MSTRG.21335.1	NOTHING
scaffold_Y_2	1402043	1402490	MSTRG.21336.1	NOTHING
scaffold_Y_2	109763	113987	MSTRG.21307.1	RALGDS
scaffold_Y_2	129871	139305	MSTRG.21310.2	ZNF558
scaffold_Y_2	633377	638466	MSTRG.21320.1	ZNF558
scaffold_Y_2	633433	637897	MSTRG.21320.2	ZNF558
scaffold_Y_2	640968	644336	MSTRG.21321.2	ZNF558
scaffold_Y_20	45579	46954	GP173_g22145.t1	GP173
scaffold_Y_20	86379	87089	IQEC2_g22148.t1	IQEC2
scaffold_Y_20	244057	249786	MSTRG.21342.2	NHSL2
scaffold_Y_20	26292	48328	MSTRG.21337.1	MSTRG.21337.1
scaffold_Y_20	26383	48328	MSTRG.21337.2	NOTHING
scaffold_Y_20	211559	211768	MSTRG.21341.1	NOTHING
scaffold_Y_20	210912	211153	MSTRG.21340.1	PGBP
scaffold_Y_20	62410	62757	POMT2_g22147.t1	POMT2
scaffold_Y_20	155842	157996	MSTRG.21339.1	TSC22D2
scaffold_Y_20	50662	57792	MSTRG.21338.1	TSPYL2
scaffold_Y_20	50809	57792	TSYL2_g22146.t1	TSPYL2
scaffold_Y_200	1389	54405	GSLG1_g22150.t1	GLG1
scaffold_Y_201	25054	39608	UBA1_g22151.t1	UBA1
scaffold_Y_203	19492	51639	MSTRG.21344.2	NOTHING
scaffold_Y_203	6056	50874	P4HA1_g22153.t1	P4HA1
scaffold_Y_205	16785	18425	MSTRG.21345.1	NOTHING
scaffold_Y_205	22310	55769	MSTRG.21349.2	SMC1A
scaffold_Y_205	20305	55769	SMC1A_g22155.t1	SMC1A
scaffold_Y_207	10707	13154	MSTRG.21346.1	PPA1
scaffold_Y_207	43610	53759	SAR1A_g22156.t1	SAR1A
scaffold_Y_207	39698	53759	MSTRG.21347.1	SAR1A
scaffold_Y_207	56539	57393	TYSD1_g22157.t1	TYSND1

scaffold_Y_21	193723	193980	RIPK4_g22159.t1	RIPK4
scaffold_Y_213	42020	42351	MSTRG.21352.1	RDH12
scaffold_Y_213	29722	30462	RN182_g22162.t1	RNF182
scaffold_Y_213	28215	28470	MSTRG.21350.1	RNF182
scaffold_Y_214	784	39607	DYN2_g22163.t1	DNM2
scaffold_Y_214	21594	31576	MSTRG.21353.2	RAB8B
scaffold_Y_216	35857	52809	HPS3_g22164.t1	EMC2
scaffold_Y_216	35577	52809	MSTRG.21354.1	EMC2
scaffold_Y_218	363	4606	CP2DE_g22165.t1	CYP2D6
scaffold_Y_218	24699	25032	MSTRG.21361.1	CUPIN1
scaffold_Y_218	52463	55628	CP2DE_g22167.t1	CP2DE_g22167.t1
scaffold_Y_218	377	53904	MSTRG.21359.2	MSTRG.21359.2
scaffold_Y_218	1251	54259	MSTRG.21359.3	NOTHING
scaffold_Y_218	52391	53904	MSTRG.21359.4	NOTHING
scaffold_Y_22	134589	160996	CP2J2_g22171.t1	CYP2J2
scaffold_Y_22	62139	62771	CTGE9_g22170.t1	CTAGE9
scaffold_Y_22	188393	189091	CTGE9_g22174.t1	CTAGE9
scaffold_Y_22	58332	91804	MSTRG.21356.1	EMC2
scaffold_Y_22	46485	46694	MSTRG.21355.1	MSTRG.21355.1
scaffold_Y_22	92253	92725	MSTRG.21358.1	NOTHING
scaffold_Y_22	167609	249188	MSTRG.21365.1	NOTHING
scaffold_Y_22	201040	238970	MSTRG.21365.2	NOTHING
scaffold_Y_22	171713	172345	CTGE9_g22172.t1	NPR1
scaffold_Y_22	180091	180723	CTGE9_g22173.t1	NPR1
scaffold_Y_22	196832	197464	CTGE9_g22175.t1	NPR1
scaffold_Y_222	41042	51492	FUND1_g22178.t1	FUNDC1
scaffold_Y_222	52103	52903	MSTRG.21363.1	FUNDC1
scaffold_Y_224	12218	15076	RBL2B_g22179.t1	RBL2B
scaffold_Y_227	3767	16248	GNTK_g22180.t1	GNTK
scaffold_Y_227	28202	28423	MSTRG.21370.1	SPATA31D3
scaffold_Y_227	34048	34269	MSTRG.21371.1	SPATA31D3
scaffold_Y_229	1977	49989	M1AP_g22182.t1	M1AP
scaffold_Y_229	2266	2486	MSTRG.21375.1	MSTRG.21375.1
scaffold_Y_229	22131	22336	MSTRG.21377.1	NOTHING
scaffold_Y_229	7226	7453	MSTRG.21376.1	TMEM169
scaffold_Y_23	34067	34316	MSTRG.21373.1	INMT
scaffold_Y_237	630	9236	MSTRG.21379.1	NOTHING
scaffold_Y_237	5165	16512	MSTRG.21379.3	NOTHING
scaffold_Y_237	30375	43132	MSTRG.21382.1	NOTHING
scaffold_Y_237	14853	29385	MSTRG.21381.1	RASGRF1
scaffold_Y_238	46715	46949	MSTRG.21378.1	ZHX2
scaffold_Y_239	39711	49195	FA13B_g22190.t1	FAM13B
scaffold_Y_24	221884	222104	MSTRG.21396.1	MBD3
scaffold_Y_24	119540	120902	MSTRG.21391.2	MMP17
scaffold_Y_24	117369	119357	GNDS_g22192.t1	GNDS_g22192.t1

scaffold_Y_24	122567	131749	GNDS_g22192.t2	GNDS_g22192.t2
scaffold_Y_24	2532	2760	MSTRG.21383.1	MSTRG.21383.1
scaffold_Y_24	100128	100589	MSTRG.21386.1	NOTHING
scaffold_Y_24	104156	104477	MSTRG.21387.1	NOTHING
scaffold_Y_24	105759	106359	MSTRG.21388.1	NOTHING
scaffold_Y_24	159076	159276	MSTRG.21389.1	NOTHING
scaffold_Y_24	117232	119357	MSTRG.21390.1	NOTHING
scaffold_Y_24	125068	125282	MSTRG.21394.1	NOTHING
scaffold_Y_24	119399	121532	OTOP1_g22193.t1	OTOP1
scaffold_Y_24	123235	123610	MSTRG.21393.1	RALGDS
scaffold_Y_24	225912	226120	MSTRG.21397.1	RALGDS
scaffold_Y_24	94715	95321	SNX1_g22191.t1	SNX1
scaffold_Y_24	205394	225782	SNX25_g22194.t1	SNX25
scaffold_Y_240	559	7213	PED1A_g22195.t1	PCED1A
scaffold_Y_240	1204	7213	PED1A_g22195.t2	PPP1R3F
scaffold_Y_241	3570	3772	MSTRG.21399.1	NOTHING
scaffold_Y_242	35681	41649	MSTRG.21400.1	ALMS1
scaffold_Y_243	2389	8350	GNDS_g22198.t1	GNDS_g22198.t1
scaffold_Y_244	19694	20646	MSTRG.21402.1	MSTRG.21402.1
scaffold_Y_244	24180	24437	MSTRG.21403.1	NOTHING
scaffold_Y_244	24715	25250	MSTRG.21406.1	NOTHING
scaffold_Y_244	40974	41185	MSTRG.21407.1	NOTHING
scaffold_Y_244	36263	36923	MSTRG.21408.1	NOTHING
scaffold_Y_244	43109	43414	MSTRG.21409.1	NOTHING
scaffold_Y_244	451	1016	MSTRG.21401.1	PRB1
scaffold_Y_245	444	12408	HMCES_g22201.t2	HMCES
scaffold_Y_246	2061	46087	ZFAT_g22202.t1	ZFAT
scaffold_Y_247	20465	20728	MSTRG.21411.1	CAV1
scaffold_Y_247	47020	47318	MSTRG.21413.1	RALGDS
scaffold_Y_248	41546	41854	MSTRG.21414.1	NOTHING
scaffold_Y_25	14425	17322	MSTRG.21415.1	GAB3
scaffold_Y_25	14425	17322	MSTRG.21415.2	GAB3
scaffold_Y_25	188319	188714	H2B2E_g22207.t1	H2BC21
scaffold_Y_250	33657	34755	EOLA1_g22209.t1	EOLA1
scaffold_Y_251	19699	20280	DUT_g22212.t1	DUT_g22212.t1
scaffold_Y_251	15262	16767	FV1_g22211.t1	FV1_g22211.t1
scaffold_Y_259	13472	39549	MSTRG.21419.2	GAB3
scaffold_Y_259	13474	33125	WAP_g22215.t1	GAB3
scaffold_Y_26	119489	119867	MSTRG.21418.1	NOTHING
scaffold_Y_26	93419	94366	OR8J3_g22220.t1	OR8J3
scaffold_Y_260	31781	32066	MSTRG.21420.1	ZNF850
scaffold_Y_261	3212	4524	EOLA1_g22228.t2	EOLA1
scaffold_Y_261	5840	7334	HSFX3_g22229.t1	HSFX3
scaffold_Y_263	396	15274	GTR11_g22231.t1	SLC2A11
scaffold_Y_263	26934	27511	MIF_g22232.t1	MIF

scaffold_Y_263	26928	27511	MIF_g22232.t2	MIF
scaffold_Y_267	24740	24953	MSTRG.21425.1	MSTRG.21425.1
scaffold_Y_267	3039	3275	MSTRG.21424.1	POU3F3
scaffold_Y_267	36278	39258	ULBP3_g22235.t1	ULBP3
scaffold_Y_27	222653	223151	MSTRG.21426.1	NOTHING
scaffold_Y_272	35619	35830	MSTRG.21427.1	EOLA2
scaffold_Y_272	23857	24684	MAGAA_g22240.t1	MAGAA
scaffold_Y_274	20722	20955	MSTRG.21428.1	NOTHING
scaffold_Y_274	22447	24589	MSTRG.21429.1	NOTHING
scaffold_Y_275	17784	19821	MAGL2_g22241.t1	MAGEL2
scaffold_Y_276	1178	18461	MSTRG.21430.1	MSTRG.21430.1
scaffold_Y_276	9901	22305	MSTRG.21431.1	MSTRG.21431.1
scaffold_Y_276	13397	22305	MSTRG.21431.2	MSTRG.21431.2
scaffold_Y_28	52616	137052	MBB1A_g22245.t1	MYBBP1A
scaffold_Y_281	13440	14072	CTGE9_g22248.t1	CTAGE9
scaffold_Y_282	33172	33380	MSTRG.21434.1	MSTRG.21434.1
scaffold_Y_284	12631	33888	1C04_g22250.t1	1C04_g22250.t1
scaffold_Y_284	6160	12380	MSTRG.21432.1	NOTHING
scaffold_Y_284	29615	30911	MSTRG.21433.2	NOTHING
scaffold_Y_285	15844	18847	ACOT4_g22251.t1	ACOT4
scaffold_Y_289	20044	20793	SBSPO_g22253.t1	SBSPO_g22253.t1
scaffold_Y_29	91817	92036	MSTRG.21435.1	NOTHING
scaffold_Y_29	118051	118656	TCAL3_g22257.t1	TCEAL3
scaffold_Y_29	131151	131603	TCAL4_g22258.t1	TCEAL4
scaffold_Y_29	130789	131084	MSTRG.21437.1	TCEAL2
scaffold_Y_298	420	1168	PLF4_g22262.t1	PF4
scaffold_Y_299	29271	29498	LIGO1_g22265.t1	LIGO1
scaffold_Y_299	22602	23259	MAGD4_g22263.t1	MAGD4
scaffold_Y_299	24155	29498	MSTRG.21441.4	MAGED4
scaffold_Y_299	24155	29498	MSTRG.21441.5	MAGED4
scaffold_Y_299	21985	23641	MSTRG.21439.1	MAGED4
scaffold_Y_299	22216	23641	MSTRG.21439.2	MAGED4
scaffold_Y_299	24155	29498	MSTRG.21441.2	MAGED4
scaffold_Y_299	24155	29498	MSTRG.21441.3	MAGED4
scaffold_Y_3	373664	373877	MSTRG.21443.1	GYG2
scaffold_Y_3	838801	840852	LMO7_g22267.t1	LMO7
scaffold_Y_3	309371	336063	GNDS_g22266.t1	GNDS_g22266.t1
scaffold_Y_3	315748	348194	MSTRG.21444.8	MSTRG.21444.8
scaffold_Y_3	823211	833475	MSTRG.21457.1	MSTRG.21457.1
scaffold_Y_3	231697	231951	MSTRG.21440.1	NOTHING
scaffold_Y_3	287878	348194	MSTRG.21444.1	NOTHING
scaffold_Y_3	287878	348194	MSTRG.21444.2	NOTHING
scaffold_Y_3	287878	348194	MSTRG.21444.3	NOTHING
scaffold_Y_3	287878	348194	MSTRG.21444.4	NOTHING
scaffold_Y_3	287881	348194	MSTRG.21444.5	NOTHING

scaffold_Y_3	308724	348194	MSTRG.21444.6	NOTHING
scaffold_Y_3	322431	348194	MSTRG.21444.9	NOTHING
scaffold_Y_3	392373	407412	MSTRG.21445.1	NOTHING
scaffold_Y_3	392697	397760	MSTRG.21445.2	NOTHING
scaffold_Y_3	523573	524697	MSTRG.21447.1	NOTHING
scaffold_Y_3	531909	546697	MSTRG.21448.1	NOTHING
scaffold_Y_3	542777	542991	MSTRG.21449.1	NOTHING
scaffold_Y_3	546950	555427	MSTRG.21450.1	NOTHING
scaffold_Y_3	556032	556251	MSTRG.21451.1	NOTHING
scaffold_Y_3	570485	570737	MSTRG.21453.1	NOTHING
scaffold_Y_3	578397	581232	MSTRG.21454.1	NOTHING
scaffold_Y_3	596516	597639	MSTRG.21456.1	NOTHING
scaffold_Y_3	825114	833475	MSTRG.21457.2	NOTHING
scaffold_Y_3	848104	854233	MSTRG.21458.1	NOTHING
scaffold_Y_3	348474	371217	MSTRG.21442.1	RASGRF1
scaffold_Y_3	521825	522034	MSTRG.21446.1	RGL1
scaffold_Y_3	590393	590710	MSTRG.21455.1	RPP40
scaffold_Y_3	560604	560808	MSTRG.21452.1	ZNF710
scaffold_Y_303	6058	14441	THOC3_g22270.t1	THOC3
scaffold_Y_307	11844	12064	MSTRG.21460.1	NOTHING
scaffold_Y_309	24727	25071	MSTRG.21463.1	ADGRE1
scaffold_Y_31	32850	73331	XK_g22275.t1	XK
scaffold_Y_312	20192	24845	CP2U1_g22279.t1	CYP2U1
scaffold_Y_312	28066	28297	MSTRG.21466.1	MSTRG.21466.1
scaffold_Y_312	1390	6381	MSTRG.21465.1	SGMS2
scaffold_Y_316	1079	2150	EEPD1_g22280.t1	EEPD1
scaffold_Y_316	1079	3040	MSTRG.21467.1	EEPD1
scaffold_Y_317	207	3157	P85A_g22281.t1	PIK3R1
scaffold_Y_319	1875	28227	UBN1_g22282.t1	UBN1
scaffold_Y_32	48243	48524	MSTRG.21468.1	NOTHING
scaffold_Y_325	652	723	SHLB1_g22285.t1	SH3GLB1
scaffold_Y_328	19987	21001	MSTRG.21471.1	NOTHING
scaffold_Y_33	93104	94994	ERF3A_g22286.t1	GSPT1
scaffold_Y_331	7670	7871	MSTRG.21474.1	NF2
scaffold_Y_331	1221	1438	MSTRG.21473.1	NOTHING
scaffold_Y_334	2603	2818	MSTRG.21475.1	NOTHING
scaffold_Y_334	5533	23698	RIR2B_g22288.t1	RRM2B
scaffold_Y_337	16347	16571	MSTRG.21476.1	NOTHING
scaffold_Y_34	32384	45531	IRAK1_g22289.t1	IRAK1
scaffold_Y_34	29766	30018	MSTRG.21477.1	NOTHING
scaffold_Y_34	116519	116771	MSTRG.21478.1	NOTHING
scaffold_Y_34	32619	45531	MSTRG.21479.2	NOTHING
scaffold_Y_340	7202	15901	MSTRG.21480.1	MLANA
scaffold_Y_343	15732	20157	MSTRG.21482.1	MARCH8
scaffold_Y_343	15732	20157	MSTRG.21482.2	MARCH8

scaffold_Y_343	19297	20157	MARH8_g22291.t1	MARH8
scaffold_Y_344	19668	19869	MSTRG.21481.1	GABRB1
scaffold_Y_35	61062	67216	MSTRG.21484.4	CA5B
scaffold_Y_35	41310	59256	MSTRG.21486.1	CA5B
scaffold_Y_35	107405	108202	MSTRG.21487.1	CA5B
scaffold_Y_35	107405	108202	MSTRG.21487.2	CA5B
scaffold_Y_35	49970	56498	CAH5B_g22294.t1	CA5B
scaffold_Y_35	66097	67216	CAH5B_g22294.t2	CA5B
scaffold_Y_35	115855	141978	CAH5B_g22295.t1	CA5B
scaffold_Y_35	115780	141978	CAH5B_g22295.t2	CA5B
scaffold_Y_35	5769	12066	MSTRG.21484.1	NOTHING
scaffold_Y_35	5770	67216	MSTRG.21484.2	NOTHING
scaffold_Y_35	148178	168291	U2AFM_g22296.t1	ZRSR2
scaffold_Y_36	66792	97550	G137B_g22297.t1	GPR137B
scaffold_Y_36	14846	15190	MSTRG.21483.1	NOTHING
scaffold_Y_36	104442	131858	MSTRG.21492.1	NOTHING
scaffold_Y_36	82439	97550	MSTRG.21493.2	NOTHING
scaffold_Y_39	38214	39284	MSTRG.21497.1	MBD3
scaffold_Y_39	41496	45951	GNDS_g22301.t1	GNDS_g22301.t1
scaffold_Y_39	34479	34874	MSTRG.21496.1	NOTHING
scaffold_Y_39	49438	49969	MSTRG.21500.1	NOTHING
scaffold_Y_39	59524	59802	MSTRG.21501.1	NOTHING
scaffold_Y_39	46692	68941	MSTRG.21499.1	RGL1
scaffold_Y_39	46758	68941	MSTRG.21499.2	RGL1
scaffold_Y_40	154079	155454	K2C72_g22308.t2	MAGEB3
scaffold_Y_42	47964	48545	DUT_g22311.t1	DUT_g22311.t1
scaffold_Y_42	43529	44380	FV1_g22310.t1	FV1_g22310.t1
scaffold_Y_42	2184	72681	MSTRG.21489.1	VWA8
scaffold_Y_43	127543	147557	DLGP5_g22315.t1	DLGAP5
scaffold_Y_43	117677	124251	LEG3_g22314.t3	LEG3
scaffold_Y_43	58877	68130	MSTRG.21503.1	TMEM260
scaffold_Y_45	118761	121262	CC130_g22318.t1	CHD1
scaffold_Y_45	118761	125425	MSTRG.21507.1	CHD1
scaffold_Y_45	119032	125425	MSTRG.21507.3	CHD1
scaffold_Y_45	511	28404	COMD1_g22316.t1	COMMD1
scaffold_Y_45	129044	129638	MSTRG.21504.1	HS3ST5
scaffold_Y_45	72831	73058	MSTRG.21495.1	IF2
scaffold_Y_45	36725	37306	DUT_g22317.t1	DUT_g22317.t1
scaffold_Y_45	65799	69847	MSTRG.21502.1	NOTHING
scaffold_Y_45	65814	69847	MSTRG.21502.2	NOTHING
scaffold_Y_45	101849	118700	MSTRG.21506.2	NOTHING
scaffold_Y_45	135469	135671	MSTRG.21508.1	NOTHING
scaffold_Y_45	74296	118907	MSTRG.21506.1	POU2F3
scaffold_Y_45	142513	142779	SPRR3_g22319.t1	SPRR3
scaffold_Y_45	130919	133498	MSTRG.21505.1	ZNF558

scaffold_Y_46	88084	96450	MON1B_g22321.t1	MON1B
scaffold_Y_46	87524	98860	MSTRG.21511.1	MON1B
scaffold_Y_46	107323	107536	MSTRG.21510.1	NOTHING
scaffold_Y_46	76926	86196	TIMP1_g22320.t2	TIMP1
scaffold_Y_47	72863	87114	CDK18_g22326.t1	CDK18
scaffold_Y_47	69831	70211	MSTRG.21512.1	NOTHING
scaffold_Y_47	121716	121929	MSTRG.21513.1	NOTHING
scaffold_Y_48	6128	8712	G6PD_g22328.t1	G6PD
scaffold_Y_48	4228	8712	G6PD_g22328.t2	G6PD
scaffold_Y_48	7604	8712	G6PD_g22328.t3	G6PD
scaffold_Y_48	7603	8600	MSTRG.21516.3	G6PD
scaffold_Y_48	4866	5068	MSTRG.21517.1	IKBKG
scaffold_Y_48	9122	32109	MSTRG.21518.1	IKBKG
scaffold_Y_48	12944	30631	NEMO_g22330.t1	IKBKG
scaffold_Y_48	12833	30631	NEMO_g22330.t2	IKBKG
scaffold_Y_48	9122	12943	XPP3_g22329.t1	XPP3
scaffold_Y_5	43442	50478	MSTRG.21514.1	BRIP1
scaffold_Y_5	550210	550758	CCDC8_g22350.t1	CCDC8
scaffold_Y_5	729625	762222	CENPE_g22352.t1	CENPE
scaffold_Y_5	405341	411007	MSTRG.21546.1	CHRNA1
scaffold_Y_5	380502	386895	MSTRG.21542.1	FADS6
scaffold_Y_5	425823	442631	MSTRG.21549.1	INTS2
scaffold_Y_5	425845	438474	MSTRG.21549.2	INTS2
scaffold_Y_5	611994	674171	CENPE_g22351.t1	CENPE_g22351.t1
scaffold_Y_5	403996	405148	EMP2_g22349.t1	EMP2_g22349.t1
scaffold_Y_5	166837	167622	FATE1_g22341.t1	FATE1_g22341.t1
scaffold_Y_5	101724	110890	MSTRG.21520.1	MSTRG.21520.1
scaffold_Y_5	101724	115036	MSTRG.21520.3	MSTRG.21520.3
scaffold_Y_5	101724	115036	MSTRG.21520.4	MSTRG.21520.4
scaffold_Y_5	117670	119599	MSTRG.21521.1	MSTRG.21521.1
scaffold_Y_5	123458	123718	MSTRG.21523.1	MSTRG.21523.1
scaffold_Y_5	126917	127149	MSTRG.21525.1	MSTRG.21525.1
scaffold_Y_5	128298	135081	MSTRG.21526.1	MSTRG.21526.1
scaffold_Y_5	131321	133114	MSTRG.21527.1	MSTRG.21527.1
scaffold_Y_5	414610	425402	MSTRG.21547.2	MSTRG.21547.2
scaffold_Y_5	49558	50478	MSTRG.21514.2	NOTHING
scaffold_Y_5	55538	55804	MSTRG.21515.1	NOTHING
scaffold_Y_5	83583	83980	MSTRG.21519.1	NOTHING
scaffold_Y_5	101724	115036	MSTRG.21520.2	NOTHING
scaffold_Y_5	101732	110890	MSTRG.21520.5	NOTHING
scaffold_Y_5	117761	119599	MSTRG.21521.2	NOTHING
scaffold_Y_5	117873	119891	MSTRG.21522.1	NOTHING
scaffold_Y_5	167611	169106	MSTRG.21529.2	NOTHING
scaffold_Y_5	167611	169106	MSTRG.21529.3	NOTHING
scaffold_Y_5	211473	221588	MSTRG.21531.1	NOTHING

scaffold_Y_5	220202	220936	MSTRG.21531.4	NOTHING
scaffold_Y_5	220222	221588	MSTRG.21531.5	NOTHING
scaffold_Y_5	267875	270768	MSTRG.21536.1	NOTHING
scaffold_Y_5	376016	379245	MSTRG.21539.1	NOTHING
scaffold_Y_5	320115	338702	MSTRG.21540.4	NOTHING
scaffold_Y_5	358873	369886	MSTRG.21543.1	NOTHING
scaffold_Y_5	359135	369886	MSTRG.21543.2	NOTHING
scaffold_Y_5	366142	367188	MSTRG.21543.3	NOTHING
scaffold_Y_5	359721	362439	MSTRG.21544.1	NOTHING
scaffold_Y_5	403744	405148	MSTRG.21545.1	NOTHING
scaffold_Y_5	414610	422466	MSTRG.21547.1	NOTHING
scaffold_Y_5	414610	425402	MSTRG.21547.3	NOTHING
scaffold_Y_5	213488	218904	MSTRG.21532.1	NOXA1
scaffold_Y_5	244485	244898	O1030_g22342.t1	O1030
scaffold_Y_5	277466	277918	O1030_g22345.t1	O1030
scaffold_Y_5	303672	338702	MSTRG.21540.1	OR5M5
scaffold_Y_5	258455	258949	OR5MB_g22344.t1	OR5M11
scaffold_Y_5	304850	305601	OR5MB_g22346.t1	OR5M11
scaffold_Y_5	452395	452635	MSTRG.21548.1	PDE7B
scaffold_Y_5	340231	340466	MSTRG.21530.1	PRB1
scaffold_Y_5	359788	368430	RGDSR_g22348.t1	RGDSR
scaffold_Y_5	218905	228175	MSTRG.21531.2	RGL1
scaffold_Y_5	218905	228175	MSTRG.21531.3	RGL1
scaffold_Y_5	366354	369844	MSTRG.21543.4	RGL1
scaffold_Y_5	119224	132338	MSTRG.21522.2	SLC17A6
scaffold_Y_5	120326	122431	MSTRG.21521.4	UBA1
scaffold_Y_5	125571	125956	MSTRG.21524.1	UBA1
scaffold_Y_5	118920	122431	MSTRG.21521.3	UBA1
scaffold_Y_5	270907	273580	MSTRG.21537.1	VOM2R32
scaffold_Y_5	167315	191321	MSTRG.21529.1	ZNF557
scaffold_Y_5	316349	338702	MSTRG.21540.3	ZNF558
scaffold_Y_50	27835	50600	K1328_g22353.t1	K1328
scaffold_Y_50	51006	116139	TPGS2_g22354.t1	TPGS2_g22354.t1
scaffold_Y_51	12413	12622	MSTRG.21552.1	NOTHING
scaffold_Y_54	115038	116750	DDX43_g22358.t1	DDX43
scaffold_Y_54	29803	31815	DDX53_g22357.t2	DDX53
scaffold_Y_54	104837	105051	MSTRG.21554.1	MSTRG.21554.1
scaffold_Y_54	102593	102803	MSTRG.21553.1	SLC28A3
scaffold_Y_58	10820	39316	HNRDL_g22362.t1	HNRNPDL
scaffold_Y_58	6145	6383	MSTRG.21555.1	NOTHING
scaffold_Y_58	59584	59805	MSTRG.21557.1	NOTHING
scaffold_Y_58	46295	55467	MSTRG.21556.1	RASGRF1
scaffold_Y_58	16324	17226	MSTRG.21558.2	RGL1
scaffold_Y_58	16556	17226	MSTRG.21558.3	RGL1
scaffold_Y_58	19282	19519	MSTRG.21559.1	SLC12A5

scaffold_Y_6	209832	217488	MSTRG.21567.1	MBD1
scaffold_Y_6	108593	109320	GNDS_g22368.t1	GNDS_g22368.t1
scaffold_Y_6	10756	11248	MSTRG.21562.1	NOTHING
scaffold_Y_6	105176	108088	MSTRG.21564.1	NOTHING
scaffold_Y_6	312061	314785	MSTRG.21568.1	NOTHING
scaffold_Y_6	367663	367878	MSTRG.21569.1	NOTHING
scaffold_Y_6	590973	591178	MSTRG.21570.1	NOTHING
scaffold_Y_6	748369	748608	MSTRG.21571.1	NOTHING
scaffold_Y_6	715926	716243	MSTRG.21572.1	NOTHING
scaffold_Y_6	723823	724166	MSTRG.21573.1	NOTHING
scaffold_Y_6	375534	375826	MSTRG.21574.1	NOTHING
scaffold_Y_6	60976	363089	MSTRG.21563.1	RAB31
scaffold_Y_6	204502	205152	MSTRG.21566.1	RGL1
scaffold_Y_61	39096	41618	ACLY_g22372.t1	ACLY
scaffold_Y_61	75551	77249	MSTRG.21578.1	ATP8B5P
scaffold_Y_61	39096	73044	MSTRG.21580.1	CHD1
scaffold_Y_61	39212	73044	MSTRG.21580.3	CHD1
scaffold_Y_61	39333	41624	MSTRG.21580.4	CHD1
scaffold_Y_61	100142	105145	MSTRG.21584.3	IDUA
scaffold_Y_61	79713	80068	MSTRG.21579.1	KTI12
scaffold_Y_61	73374	73747	MSTRG.21576.1	MBD3
scaffold_Y_61	121474	126222	MSTRG.21586.1	MUC16
scaffold_Y_61	110304	119708	MSTRG.21587.6	MUC16
scaffold_Y_61	114514	121098	MSTRG.21587.7	MUC16
scaffold_Y_61	27910	28220	MSTRG.21575.1	MSTRG.21575.1
scaffold_Y_61	59383	62011	MSTRG.21581.1	NOTHING
scaffold_Y_61	90072	94412	MSTRG.21582.3	NOTHING
scaffold_Y_61	90073	94412	MSTRG.21582.4	NOTHING
scaffold_Y_61	94484	99878	MSTRG.21582.5	NOTHING
scaffold_Y_61	94484	99878	MSTRG.21582.6	NOTHING
scaffold_Y_61	95717	99878	MSTRG.21582.7	NOTHING
scaffold_Y_61	99969	105145	MSTRG.21584.1	NOTHING
scaffold_Y_61	99969	105145	MSTRG.21584.2	NOTHING
scaffold_Y_61	114657	119790	MSTRG.21587.8	NOTHING
scaffold_Y_61	89494	98835	GNDS_g22373.t1	NOXA1
scaffold_Y_61	90179	91869	MSTRG.21583.1	RGL1
scaffold_Y_61	75898	80656	MSTRG.21578.2	SMARCC2
scaffold_Y_61	83760	84608	MSTRG.21577.1	SNRPN
scaffold_Y_61	109600	121098	MSTRG.21587.1	ZNF558
scaffold_Y_61	109867	121098	MSTRG.21587.2	ZNF558
scaffold_Y_61	109867	114513	MSTRG.21587.3	ZNF558
scaffold_Y_61	110027	114513	MSTRG.21587.4	ZNF558
scaffold_Y_61	110304	119790	MSTRG.21587.5	ZNF558
scaffold_Y_62	82402	92498	CDK16_g22378.t1	CDK16
scaffold_Y_62	88287	91038	MSTRG.21593.2	CDK16

scaffold_Y_62	90052	111796	MSTRG.21593.3	CDK16
scaffold_Y_62	1396	2763	CEP85_g22374.t1	CEP85
scaffold_Y_62	20549	22740	NDUBB_g22375.t1	NDUFB11
scaffold_Y_62	96882	111796	MSTRG.21593.6	NOTHING
scaffold_Y_62	96882	111796	MSTRG.21593.7	NOTHING
scaffold_Y_62	37057	49768	MSTRG.21589.5	RBM10
scaffold_Y_62	23311	39094	MSTRG.21589.2	RBM10
scaffold_Y_62	23312	49768	MSTRG.21589.3	RBM10
scaffold_Y_62	37057	49768	MSTRG.21589.4	RBM10
scaffold_Y_62	40389	49768	MSTRG.21589.6	RBM10
scaffold_Y_62	23301	49768	RBM10_g22376.t1	RBM10
scaffold_Y_62	56785	73815	MSTRG.21590.2	UBA1
scaffold_Y_62	60291	73816	MSTRG.21590.3	UBA1
scaffold_Y_62	54356	78984	UBA1_g22377.t1	UBA1
scaffold_Y_62	96243	111796	MSTRG.21593.4	USP11
scaffold_Y_63	39522	118133	ZN568_g22381.t1	ZNF568
scaffold_Y_63	40885	79913	MSTRG.21592.2	ZNF607
scaffold_Y_63	40886	79913	MSTRG.21592.3	ZNF607
scaffold_Y_64	121000	123043	MSTRG.21596.1	KDM4D
scaffold_Y_64	106159	112667	GNDS_g22384.t1	GNDS_g22384.t1
scaffold_Y_64	96538	96942	MSTRG.21591.1	NOTHING
scaffold_Y_64	107742	112667	MSTRG.21597.2	NOTHING
scaffold_Y_66	80445	123908	MSTRG.21601.1	GTF2H2
scaffold_Y_66	79672	79996	MSTRG.21594.1	NOTHING
scaffold_Y_66	8052	8258	MSTRG.21595.1	NOTHING
scaffold_Y_66	52307	52534	MSTRG.21598.1	NOTHING
scaffold_Y_66	72442	72657	MSTRG.21599.1	NOTHING
scaffold_Y_66	90860	123908	PTHD1_g22385.t1	PTCHD1
scaffold_Y_67	107144	107349	MSTRG.21603.1	NOTHING
scaffold_Y_67	100226	100433	MSTRG.21600.1	RPP40
scaffold_Y_69	49955	77230	F261_g22390.t1	PFKFB1
scaffold_Y_69	1226	1458	MSTRG.21604.1	NOTHING
scaffold_Y_69	37731	38045	MSTRG.21605.1	NOTHING
scaffold_Y_7	436828	441079	MSTRG.21613.1	ATP8B5P
scaffold_Y_7	438391	441079	MSTRG.21613.2	ATP8B5P
scaffold_Y_7	464905	467991	MSTRG.21614.6	B3GALT5
scaffold_Y_7	19279	19683	CXX1_g22393.t1	RTL8C
scaffold_Y_7	616314	635154	MSTRG.21626.2	JAKMIP2
scaffold_Y_7	856	5892	KASH5_g22391.t1	LOC111767429
scaffold_Y_7	592823	614702	MSTRG.21625.8	MUC16
scaffold_Y_7	441280	453063	MSTRG.21614.1	MSTRG.21614.1
scaffold_Y_7	34805	35976	MSTRG.21608.1	NOTHING
scaffold_Y_7	468469	469787	MSTRG.21612.1	NOTHING
scaffold_Y_7	441280	467991	MSTRG.21614.2	NOTHING
scaffold_Y_7	666627	674359	MSTRG.21625.23	NOTHING

scaffold_Y_7	592823	595061	MSTRG.21625.7	NOTHING
scaffold_Y_7	614738	635154	MSTRG.21626.1	NOTHING
scaffold_Y_7	452450	461244	GNDS_g22399.t1	NOXA1
scaffold_Y_7	459846	467991	MSTRG.21614.5	RGL1
scaffold_Y_7	455655	459772	MSTRG.21615.2	RGL1
scaffold_Y_7	455659	461058	MSTRG.21615.3	RGL1
scaffold_Y_7	18900	19241	RTL8_g22392.t1	RTL8A
scaffold_Y_7	39516	39857	RTL8_g22395.t1	RTL8A
scaffold_Y_7	54862	55266	RTL8_g22396.t1	RTL8A
scaffold_Y_7	55341	55643	RTL8_g22396.t2	RTL8A
scaffold_Y_7	444202	452304	MSTRG.21614.3	VOM2R32
scaffold_Y_7	446521	467991	MSTRG.21614.4	VOM2R32
scaffold_Y_7	592823	594355	XRN2_g22400.t1	XRN2
scaffold_Y_7	598242	645788	XRN2_g22400.t2	XRN2
scaffold_Y_7	645876	652052	XRN2_g22400.t3	XRN2
scaffold_Y_7	652053	672776	XRN2_g22400.t4	XRN2
scaffold_Y_7	635490	645522	MSTRG.21625.12	XRN2
scaffold_Y_7	639834	641909	MSTRG.21625.13	XRN2
scaffold_Y_7	645865	669041	MSTRG.21625.14	XRN2
scaffold_Y_7	645865	666626	MSTRG.21625.15	XRN2
scaffold_Y_7	645876	660660	MSTRG.21625.16	XRN2
scaffold_Y_7	645922	651074	MSTRG.21625.18	XRN2
scaffold_Y_7	651906	663827	MSTRG.21625.19	XRN2
scaffold_Y_7	655704	663827	MSTRG.21625.21	XRN2
scaffold_Y_7	655755	660660	MSTRG.21625.22	XRN2
scaffold_Y_7	588841	666626	MSTRG.21625.1	ZNF558
scaffold_Y_7	588841	645767	MSTRG.21625.2	ZNF558
scaffold_Y_7	588851	666626	MSTRG.21625.3	ZNF558
scaffold_Y_7	588851	666626	MSTRG.21625.4	ZNF558
scaffold_Y_7	588851	666626	MSTRG.21625.5	ZNF558
scaffold_Y_7	588862	599987	MSTRG.21625.6	ZNF558
scaffold_Y_70	16101	19225	F186A_g22403.t1	F186A
scaffold_Y_70	20718	26095	MSTRG.21616.1	MSTRG.21616.1
scaffold_Y_70	25165	26080	MSTRG.21616.2	MSTRG.21616.2
scaffold_Y_70	81571	81787	MSTRG.21617.1	MSTRG.21617.1
scaffold_Y_74	5318	41532	MSTRG.21619.1	NOTHING
scaffold_Y_74	25815	41532	MSTRG.21619.3	ZNF658
scaffold_Y_74	25815	41532	MSTRG.21619.4	ZNF658
scaffold_Y_74	23881	24111	MSTRG.21620.1	ZNF658
scaffold_Y_75	57652	57879	MSTRG.21618.1	NOTHING
scaffold_Y_75	88221	88440	MSTRG.21621.1	NOTHING
scaffold_Y_75	59325	87874	MSTRG.21622.1	PDZRN3
scaffold_Y_76	91168	97156	GNDS_g22408.t1	GNDS_g22408.t1
scaffold_Y_8	146056	146272	MSTRG.21623.1	NOTHING
scaffold_Y_80	85653	89660	MSTRG.21631.1	GLMP

scaffold_Y_80	65572	81847	TCPG_g22413.t1	CCT3
scaffold_Y_80	85670	89660	TCPG_g22413.t2	CCT3
scaffold_Y_80	89730	93759	TMM79_g22414.t1	TMM79
scaffold_Y_81	67829	68320	CX05B_g22416.t1	CX05B
scaffold_Y_82	77909	84731	MSTRG.21635.1	NOTHING
scaffold_Y_83	82324	82781	MSTRG.21629.1	B3GNT5
scaffold_Y_83	81320	81923	MSTRG.21630.1	NOTHING
scaffold_Y_83	60618	79068	RENR_g22420.t1	ATP6AP2
scaffold_Y_83	84041	84258	MSTRG.21637.1	SCAND3
scaffold_Y_84	78289	78686	MSTRG.21628.1	CCNT1
scaffold_Y_84	53649	72294	KANL2_g22423.t1	KANSL2
scaffold_Y_84	53099	72294	MSTRG.21627.5	KANSL2
scaffold_Y_84	53097	72294	MSTRG.21627.1	KANSL2
scaffold_Y_84	53097	72294	MSTRG.21627.2	KANSL2
scaffold_Y_84	53097	72294	MSTRG.21627.3	KANSL2
scaffold_Y_84	53099	72294	MSTRG.21627.4	KANSL2
scaffold_Y_84	28349	30635	LYSC1_g22422.t1	LYSC1
scaffold_Y_85	41269	84155	EP400_g22424.t1	EP400
scaffold_Y_85	38437	84155	MSTRG.21641.2	EP400
scaffold_Y_85	11361	33727	MSTRG.21633.1	EP400
scaffold_Y_85	11497	35690	MSTRG.21633.2	EP400
scaffold_Y_85	38431	84155	MSTRG.21641.1	EP400
scaffold_Y_86	986	2539	TM45A_g22425.t1	RPP40
scaffold_Y_86	21634	22084	MSTRG.21639.1	ZNF501
scaffold_Y_89	60029	60556	FRIL_g22427.t1	FTL
scaffold_Y_9	54526	114136	UBA1_g22428.t1	UBA1
scaffold_Y_90	2882	41667	IGSF3_g22432.t1	IGSF3
scaffold_Y_91	576	6898	HACD4_g22433.t1	HACD4
scaffold_Y_91	13786	15749	ELAC_g22434.t2	LOC101393639
scaffold_Y_91	13257	15749	ELAC_g22434.t1	LOC101393639
scaffold_Y_91	20914	24847	BPT1_g22436.t1	BPT1_g22436.t1
scaffold_Y_91	576	6898	MSTRG.21643.1	PIGT
scaffold_Y_91	17544	18014	RBM3_g22435.t1	RBM3
scaffold_Y_91	22463	24847	MSTRG.21644.2	SPINT3
scaffold_Y_91	48540	52205	WFDC2_g22437.t1	WFDC2
scaffold_Y_94	24216	63350	PKHL1_g22439.t1	PKHD1L1
scaffold_Y_98	17433	77086	MSTRG.21646.1	ALMS1
scaffold_Y_98	73738	77086	IL6_g22443.t1	IL6

Supplemental Table 2

Growing vs. Dominant

Transcript ID	Gene Name	AVERAGE G	AVERAGE D	P-Value
MSTRG.2809.2	AARS2	0	203.5	2.12E-07
ACSF4_g20445.t1	AASDH	0	1132	1.68E-12
MSTRG.4631.3	ABCA6	0	35.5	3.58E-02
MSTRG.14560.4	ABI1	17.5	160.5	1.39E-04
MSTRG.7206.2	ACADM	65.5	1	2.81E-03
MSTRG.7666.3	ACAP3	4	145	6.11E-05
MSTRG.7666.2	ACAP3	0	59	4.90E-03
THIC_g16283.t1	ACAT2	60.5	4	1.99E-03
MSTRG.12026.3	ACIN1	246.5	1074.5	6.63E-03
IRG1_g899.t2	ACOD1	4521.5	11237.5	4.71E-02
ARP8_g18413.t1	ACTR8	1038	136	7.98E-06
MSTRG.12994.3	ADAMTS18	0	175	3.59E-07
MSTRG.10709.1	ADCY9	143	18	1.27E-03
MSTRG.12816.1	ADGRG1	0	94.5	5.01E-04
MSTRG.16626.3	ADGRL1	1365	3432	4.89E-02
MSTRG.19175.3	ADM	0	85	5.44E-03
MSTRG.19764.2	AFF1	3017	0	2.25E-06
CBPC2_g13586.t1	AGBL2	102.5	0	3.72E-04
AHSP_g10365.t1	AHSP	0	166	1.44E-04
KAD4_g7236.t1	AK4	24.5	323.5	7.54E-03
MSTRG.15577.2	AKAP12	610.5	220	1.56E-04
MSTRG.12634.3	AKAP13	563.5	0	3.48E-05
MSTRG.16936.3	AKAP5	0	3855	2.11E-16
MSTRG.18056.2	AKR1D1	0	115.5	1.21E-02
AKT1_g9310.t1	AKT1	1123	393	4.05E-02
MSTRG.14203.2	AKT2	33	0	2.09E-02
ALG11_g1022.t1	ALG11	0	110	1.20E-02
ALG13_g21661.t1	ALG13	1982.5	547.5	4.39E-03
MSTRG.5132.1	AMIGO2	151.5	1044	2.66E-02
MSTRG.7040.4	AMY2B	0	460.5	8.61E-10
MSTRG.7040.5	AMY2B	0	257.5	1.43E-07
MSTRG.4021.4	ANKFY1	12.5	725.5	3.45E-02
MSTRG.14555.2	ANKRD26	22.5	286	2.85E-04
MSTRG.9363.4	ANKRD45	1213	544	2.15E-03
MSTRG.9363.1	ANKRD45	1849.5	717	3.69E-02
MSTRG.17619.1	ANO10	185	0	2.83E-07

ANO4_g9785.t2	ANO4	47	0	3.71E-03
MSTRG.7866.1	ANO7	0	378.5	4.07E-09
ANO8_g5830.t1	ANO8	106	7	2.84E-02
MSTRG.392.2	AOPEP	0	34	4.38E-02
AP1M2_g17343.t1	AP1M2	0	147.5	3.07E-06
MSTRG.6944.4	AP4B1	0	152.5	2.85E-02
AP4E1_g12468.t1	AP4E1	63.5	653.5	1.82E-06
MSTRG.16976.2	APBA3	107.5	848	1.34E-02
APBB2_g20381.t1	APBB2	296	108.5	4.72E-03
MSTRG.3544.1	APOD	208	1.5	2.23E-03
MSTRG.10992.1	APP	0	224.5	2.23E-07
MSTRG.20574.5	ARAF	0	785.5	2.57E-05
MSTRG.9215.1	ARHGAP39	27	379.5	2.94E-04
MSTRG.20421.2	ARHGAP6	400	19	3.69E-05
ARHG4_g21132.t1	ARHGEF4	0	71.5	5.25E-03
MSTRG.764.1	ARHGEF7	115.5	1062.5	2.41E-07
MSTRG.18284.3	ARID5B	4613	1137	3.97E-03
MSTRG.17697.2	ARIH2	809.5	2049	4.36E-02
MSTRG.15446.2	ARPC2	382.5	0	2.61E-10
ARRB2_g3754.t1	ARRB2	106	4	1.06E-06
MSTRG.11278.1	ASH2L	13.5	223	1.36E-05
MSTRG.6099.1	ASPH	1098	317.5	5.25E-02
MSTRG.1659.2	ASXL2	635	84	2.87E-06
MSTRG.6647.2	ATF6	0	1765.5	6.97E-12
MSTRG.10674.3	ATF7IP2	160.5	1088	1.34E-02
AT11A_g787.t1	ATP11A	83	12	5.12E-02
MSTRG.5764.3	ATP13A1	14	252.5	3.52E-05
MSTRG.14327.3	ATP4A	0	70.5	6.30E-04
AT5G1_g4151.t1	ATP5MC1	48	0	2.64E-03
MSTRG.17684.2	ATRIP	0	108.5	3.32E-05
AVPI1_g18792.t1	AVPI1	0	242	1.33E-07
B3GN8_g14800.t1	B3GNT8	65.5	0	3.50E-04
B3GN8_g14801.t1	B3GNT8	61	0	6.98E-04
MSTRG.6892.2	BCL9	0	191	2.55E-07
MSTRG.20471.2	BCLAF3	0	108.5	2.91E-03
BET1L_g14249.t1	BET1L	5004.5	692.5	1.84E-02
BEX4_g21599.t1	BEX4	3	82.5	2.46E-04
URFB1_g2544.t1	BLTP3A	0	1174.5	1.68E-12
MSTRG.3664.2	BOC	0	45	3.18E-02

MSTRG.16510.2	BOD1	67	359.5	5.74E-04
MSTRG.4597.4	BPTF	0	213.5	2.09E-02
MSTRG.2652.3	BRD2	0	1995.5	1.65E-13
BUD23_g10316.t1	BUD23	0	132	6.43E-04
CSTOS_g15387.t1	C12ORF43	1006.5	22.5	1.76E-02
CL060_g5258.t1	C12ORF60	66	15	4.62E-02
CS047_g14834.t1	C19ORF47	37	463	3.26E-03
MSTRG.4746.1	C1QTNF1	1147	367	2.10E-04
C2CD2_g10907.t1	C2CD2	80.5	4	8.45E-03
MSTRG.5255.1	C2CD5	953	469	1.11E-02
CB042_g1284.t1	C2ORF42	122.5	8.5	2.48E-02
MSTRG.17037.1	C3	212.5	0	1.76E-06
CC020_g17814.t1	C3ORF20	138.5	18	2.73E-02
CF132_g2635.t1	C6ORF132	98	29	2.68E-02
MSTRG.6018.3	C9ORF72	0	397	8.20E-05
MSTRG.7792.2	CA6	0	124	3.39E-05
MSTRG.18050.2	CALHM2	0	301	6.00E-08
WDR36_g16708.t2	CAMK4	1	76.5	1.04E-02
MSTRG.18692.3	CAPN6	147	2	2.69E-02
MSTRG.2414.2	CARMIL1	0	899	3.00E-10
MSTRG.2318.3	CBY3	3357.5	1982.5	8.16E-03
CCNP_g14836.t1	CCNP	62	12.5	2.64E-02
MSTRG.20276.2	CCNT2	0	233.5	2.23E-07
MSTRG.12365.1	CCR4	62.5	290.5	8.26E-03
MSTRG.2821.1	CD2AP	300	0	6.24E-06
MSTRG.10751.1	CD33	8371.5	3124.5	2.00E-02
MSTRG.552.1	CD36	90	22.5	2.22E-02
MSTRG.216.4	CD3G	513.5	0	2.74E-05
MSTRG.2353.2	CD83	3363	1533.5	1.09E-03
CDC5L_g2691.t1	CDC5L	564	4479	2.56E-08
MSTRG.6385.2	CDK18	0	293.5	9.34E-08
PLB1_g20538.t1	CDKL2	313	91	2.10E-02
MSTRG.18643.2	CDON	187.5	16	6.41E-06
CENPC_g20467.t1	CENPC	507	2059.5	5.25E-05
MSTRG.6518.1	CEP350	132	2156.5	1.10E-05
MSTRG.6518.2	CEP350	0	741.5	1.60E-05
CEP97_g3509.t1	CEP97	634.5	3128.5	3.73E-02
CF20D_g18442.t1	CFAP20DC	1808.5	107.5	3.34E-10
CFDP1_g13151.t1	CFDP1	57	333.5	2.91E-03

MSTRG.3941.4	CHD3	13	1682.5	9.28E-03
MSTRG.14826.4	CHEK2	11.5	243	2.12E-03
MSTRG.9874.3	CHPT1	235	0	9.17E-08
CRDL1_g21651.t1	CHRDL1	11.5	172.5	3.79E-04
CIART_g6849.t1	CIART	603	197	2.83E-04
MSTRG.13388.2	CKAP5	0	1896	5.64E-06
CLAP2_g18128.t1	CLASP2	53.5	0	4.23E-03
MSTRG.13392.1	CLCC1	0	503.5	3.66E-10
CLD19_g8323.t1	CLDN19	0	51	6.27E-03
MSTRG.18666.2	CLMP	40	319	1.82E-02
MSTRG.2718.2	CMTR1	0.5	430.5	1.24E-02
MSTRG.15421.2	CNPPD1	0	1283.5	7.30E-06
MSTRG.15421.3	CNPPD1	0	551.5	2.89E-05
MSTRG.5168.1	CNTN1	1073	221	2.75E-02
MSTRG.11615.2	CNTRL	0	124.5	1.08E-05
MSTRG.7639.2	COL12A1	247.5	0	7.69E-08
TITIN_g10771.t1	COL20A1	351.5	94.5	2.90E-02
MSTRG.20042.1	COL3A1	1103	512	1.11E-02
MSTRG.15363.5	COL4A3	0	1926.5	4.42E-06
MSTRG.20875.2	COL4A5	0	971	2.45E-05
MSTRG.15329.2	COPS7B	0	556.5	9.13E-10
CP2DE_g9976.t1	CP2DE_g9976.t1	48.5	2576	3.22E-17
MSTRG.18197.1	CPEB3	0	56.5	1.57E-02
MSTRG.5609.2	CPLANE1	0	368	4.40E-08
MSTRG.13455.2	CPSF7	2036.5	895	3.28E-02
CRUM3_g17734.t1	CRB3	1071.5	201.5	1.42E-02
MSTRG.4822.2	CSNK1D	0	2066.5	1.87E-14
MSTRG.4822.1	CSNK1D	3717.5	2234.5	8.59E-03
MSTRG.17669.1	CSPG5	476	3677.5	2.09E-02
CTIF_g2986.t1	CTIF	308.5	54	3.39E-05
MSTRG.14623.4	CUL2	7	425	2.76E-10
MSTRG.14623.1	CUL2	496	278.5	4.82E-02
MSTRG.2781.3	CUL9	109.5	595.5	1.36E-02
MSTRG.19686.1	CXCL3	0	112	1.60E-02
MSTRG.9679.2	DAAM1	3.5	989	2.63E-02
MSTRG.2731.3	DAAM2	0	241.5	1.22E-07
DACT3_g14671.t1	DACT3	103	17	2.08E-03
MSTRG.8732.1	DBNDD2	79.5	1148.5	9.58E-09
MSTRG.8732.2	DBNDD2	25.5	588.5	1.71E-05

MSTRG.755.7	DCUN1D2	0	700	2.16E-05
MSTRG.9730.7	DDHD1	0	122.5	1.96E-05
MSTRG.9730.3	DDHD1	0	154.5	5.16E-05
MSTRG.8534.2	DDRGK1	0	319	7.01E-08
MSTRG.8534.4	DDRGK1	0	172	3.83E-07
MSTRG.12826.1	DDX28	19.5	229.5	4.59E-03
MSTRG.16259.2	DDX46	0	1054.5	1.31E-05
MSTRG.5782.2	DDX49	0	659	2.30E-05
MSTRG.6788.2	DENND4B	0	358.5	4.81E-08
MSTRG.14983.2	DGCR8	0	478.5	6.61E-10
DGUOK_g1242.t1	DGUOK	5.5	189	2.10E-02
MSTRG.5685.2	DHX29	0	336	6.00E-08
MSTRG.14038.1	DHX34	0	120	6.80E-05
MSTRG.16371.3	DIAPH1	116	973	4.30E-05
MSTRG.11430.1	DIPK1B	44.5	430.5	4.05E-03
MSTRG.17382.2	DIPK2A	161.5	0	1.72E-02
MSTRG.17486.2	DNAJC13	0	644.5	4.10E-06
MSTRG.11668.4	DNAJC25	0	229.5	1.42E-07
MSTRG.19129.4	DNHD1	0	298	8.87E-08
MSTRG.19129.3	DNHD1	2039.5	4829	5.12E-02
DONS_g10975.t1	DONSON	828.5	174.5	3.59E-06
MSTRG.12395.2	DPP8	0	502	5.43E-09
MSTRG.12395.4	DPP8	36	480.5	2.20E-06
MSTRG.14401.4	DPY19L3	0	283	1.04E-07
MSTRG.20814.1	DRP2	111	1082	7.87E-03
MSTRG.2870.5	DST	805	132.5	3.18E-02
DYH14_g9377.t1	DYH14_g9377.t1	0	158.5	3.12E-06
THBG_g797.t1	DYNC1H1	81	0	6.17E-04
MSTRG.2384.1	E2F3	0	224	2.23E-07
MSTRG.2384.2	E2F3	289.5	68	3.69E-03
ATL4_g6842.t2	ECM1	936.5	212	2.86E-10
MSTRG.7025.2	EEIG2	0	391.5	6.09E-08
MSTRG.7025.1	EEIG2	145.5	15.5	4.81E-05
EFNB1_g21450.t1	EFNB1	1591.5	50	2.66E-02
E2AK4_g12335.t1	EIF2AK4	261	22.5	4.43E-07
MSTRG.3498.3	EIF4G1	0	8273.5	4.40E-15
MSTRG.7932.1	EIF4G3	307	113.5	9.68E-03
ELAV1_g17518.t2	ELAVL1	1.5	147.5	7.57E-03
MSTRG.9801.2	ELP1	0	482	8.65E-09

MSTRG.3975.1	ELP5	0	311	1.51E-08
HPS3_g22164.t1	EMC2	3015.5	1088.5	9.75E-03
MSTRG.3046.2	EMILIN2	1.5	226.5	7.75E-03
ENPP5_g2698.t1	ENPP5	276	2625	1.54E-02
MSTRG.15018.3	EP400	0	377	1.11E-02
MSTRG.2917.4	EPB41L3	1.5	101.5	3.91E-03
MSTRG.17460.1	EPHB1	0	36	3.73E-02
MSTRG.18574.4	ERCC6	0	140.5	7.98E-05
MSTRG.18574.6	ERCC6	65	0.5	1.22E-03
ERP29_g15314.t2	ERP29	14	512.5	2.00E-02
MSTRG.13996.5	ETV2	0	663.5	1.83E-05
MSTRG.8385.3	EVI5	0	382	4.61E-05
MSTRG.7109.1	EVI5	853	308	7.40E-03
EXT2_g13535.t1	EXT2	50.5	5.5	2.85E-02
MSTRG.19921.3	FAM117B	0	6463	9.14E-07
MSTRG.3500.1	FAM131A	98.5	352.5	3.08E-02
MSTRG.16547.3	FAM193B	0	112	2.24E-05
MSTRG.5964.1	FAM219A	460.5	1326	5.53E-03
MSTRG.17200.3	FANCD2	0	468.5	1.03E-08
MSTRG.11830.4	FANCG	0	5017	5.43E-16
MSTRG.11830.2	FANCG	0	5059	1.96E-13
MSTRG.10461.2	FBXL19	41.5	257	2.94E-02
MSTRG.935.1	FBXL3	982	379.5	7.10E-06
MSTRG.935.2	FBXL3	165	491.5	2.09E-02
MSTRG.7868.3	FBXO42	4.5	1075	4.62E-02
FBW1B_g17096.t1	FBXW11	88	419.5	6.32E-04
MSTRG.15097.4	FH	1835.5	522.5	2.07E-03
MSTRG.20174.2	FIGN	0	92	1.14E-04
MSTRG.10737.1	FLYWCH2	0	283	7.19E-08
MSTRG.15222.4	FMN2	0	284.5	1.02E-07
MSTRG.13408.2	FNBP4	572	1511.5	1.72E-02
TRI56_g10266.t1	FOLH1B	138.5	0	1.76E-06
MSTRG.8385.1	FOXJ3	69	441.5	1.11E-03
MSTRG.17436.4	FOXL2	0	2013	6.06E-12
MSTRG.17436.3	FOXL2	0	581.5	2.12E-05
MSTRG.17436.7	FOXL2	34	195.5	4.62E-02
PTOV1_g14555.t1	FOXN4	1544	380.5	5.03E-02
MSTRG.18719.3	FXYD6	0	191	4.94E-07
FZD5_g20708.t1	FZD5	4	81	5.83E-04

MSTRG.4756.3	GAA	0	1374.5	2.38E-11
MSTRG.4756.2	GAA	60	958.5	3.38E-07
MSTRG.21419.2	GAB3	12	95	3.49E-02
GABP1_g12462.t1	GABPB1	10	168	9.26E-04
GADL1_g18108.t1	GADL1	553.5	0	3.22E-05
MSTRG.8484.2	GALNT7	0	234.5	1.72E-07
MSTRG.3585.5	GALNT7	1.5	376	5.45E-02
MSTRG.5956.2	GALT	1.5	137.5	1.93E-06
MSTRG.13492.1	GANAB	0	717.5	2.10E-05
GANC_g12384.t1	GANC	344	97	2.09E-03
MSTRG.2076.1	GASK1B	29	189	4.38E-02
MSTRG.16433.3	GEMIN5	45.5	0	1.37E-02
GHC2_g5452.t1	GHC2_g5452.t1	158.5	0	3.29E-07
MSTRG.10312.2	GIGYF1	0	171	3.95E-07
CXA10_g7508.t1	GJA10	1	66.5	1.85E-02
MSTRG.12437.2	GLCE	14.5	425.5	2.26E-13
MSTRG.9153.1	GLI4	67	291.5	1.58E-03
GLIP1_g9691.t1	GLIPR1	0	34	4.99E-02
SAP3_g17002.t1	GM2A	0	67.5	4.39E-03
MSTRG.2407.2	GMNN	37	471	1.88E-02
GUAA_g17905.t1	GMPS	11	182.5	5.16E-02
MSTRG.8165.2	GNL2	1.5	342	3.75E-02
MSTRG.18479.1	GNPAT	3	414	4.91E-11
MSTRG.5575.4	GOLPH3	0	1336.5	4.49E-13
GOLP3_g5559.t1	GOLPH3	134.5	15	7.12E-04
MSTRG.19756.2	GPAT3	918	368.5	2.31E-02
MD12L_g17931.t1	GPR171	6844.5	3272.5	1.16E-02
GPR39_g21061.t1	GPR39	29.5	296	3.04E-06
MSTRG.18663.3	GRAMD1B	32.5	478.5	3.17E-02
MSTRG.20171.4	GRB14	1197	3644	3.85E-02
MSTRG.4675.2	GRB2	0	600.5	5.31E-05
MSTRG.3035.4	GREB1L	478	2869.5	7.12E-03
MSTRG.3035.1	GREB1L	1631.5	8408	1.24E-02
MSTRG.7502.1	GRIK2	392	156	2.30E-03
MSTRG.14153.4	GRIK5	578.5	2319	2.22E-02
MSTRG.4882.7	GRIP1	234	58	6.46E-03
MSTRG.13072.3	GSE1	0	88.5	1.61E-04
MSTRG.2843.1	GSTA1	5418	41833.5	3.42E-05
MSTRG.2840.1	GSTA1	86.5	1161	8.05E-03

MSTRG.6997.6	GSTM5	1439.5	0	9.93E-06
GTPB1_g9912.t2	GTPBP1	193.5	0.5	1.86E-02
H2A1E_g2234.t1	H2AC4	46	0	3.54E-03
H2AV_g736.t1	H2AZ2	40.5	229.5	3.21E-03
HABP4_g6228.t1	HABP4	243.5	0	1.14E-07
MSTRG.21172.3	HDHD5	0	88.5	5.44E-03
MSTRG.1581.1	HEATR5B	532.5	63.5	8.19E-05
MSTRG.17739.3	HEMK1	5	161.5	1.22E-07
MSTRG.12375.3	HERC1	0	181.5	2.61E-06
HES4_g7601.t1	HES4	116	6.5	5.79E-06
MSTRG.4827.1	HEXD	141.5	57	4.56E-02
MSTRG.9194.1	HGH1	0.5	91.5	2.14E-03
MSTRG.8578.1	HM13	305.5	1982	4.83E-02
MSTRG.2170.3	HMBOX1	1129.5	661	1.36E-02
MSTRG.1141.1	HMGB1	0	635	2.60E-05
MSTRG.19618.1	HOPX	903.5	266	8.91E-04
MSTRG.1752.2	HPCAL1	182	483.5	4.61E-02
MSTRG.18125.1	HPS1	757	2478.5	2.02E-02
HS3S5_g7403.t1	HS3ST5	707	2169	5.18E-03
MSTRG.6903.2	HSD3B2	0	1612.5	7.06E-06
MSTRG.12868.1	HSF4	231.5	1006.5	1.33E-03
HSP7C_g1432.t1	HSPA8	192	0	2.43E-07
CH10_g1339.t1	HSPE1	722	184	1.34E-02
MSTRG.20633.1	HUWE1	211.5	9234	2.11E-16
MSTRG.20633.5	HUWE1	6408.5	751.5	1.47E-02
MSTRG.15143.1	IARS2	611.5	2193.5	2.84E-03
MSTRG.21229.2	IDUA	73.5	0	5.45E-05
GILT_g5799.t1	IFI30	0.5	70.5	5.34E-02
MSTRG.10961.1	IFNGR2	330.5	26.5	6.27E-03
MSTRG.4140.4	IFT20	295.5	0	6.07E-05
IFT74_g8159.t1	IFT74_g8159.t1	0	686	7.00E-11
MSTRG.15649.2	IGF2R	0	654.5	1.91E-05
IBP5_g16130.t1	IGFBP5	0	297	1.97E-06
MSTRG.9853.1	IKBIP	0	167.5	1.59E-06
IKZF4_g4837.t1	IKZF4	29	0	2.54E-02
IMPCT_g2895.t1	IMPACT	276.5	44.5	6.77E-05
MSTRG.241.2	IMPDH1	0	230.5	2.12E-07
IMPG2_g3515.t1	IMPG2	0	356	3.62E-08
MSTRG.651.1	INHBA	4977	26509	8.88E-04

MSTRG.20313.1	INHBB	7174.5	36308.5	3.94E-02
MSTRG.20993.1	INTS6L	0	722	2.92E-11
INTU_g12540.t1	INTU_g12540.t1	0	442.5	2.96E-05
MSTRG.8322.1	IPP	0	395	4.41E-05
IQCB1_g3410.t1	IQCB1	196.5	21	1.67E-03
IQEC1_g17780.t1	IQSEC1	4712.5	100373	1.62E-04
MSTRG.16217.1	IRF1	428.5	108.5	2.69E-02
MSTRG.776.3	IRS2	67.5	10.5	1.02E-02
MSTRG.14185.1	ITPKC	512.5	0	1.19E-10
MSTRG.17306.1	ITPR1	3176	801.5	4.48E-03
JUN_g8147.t1	JUN	13.5	84	4.44E-02
MSTRG.7843.1	KAZN	200	16.5	1.25E-04
MSTRG.53.1	KCNH2	114	552	1.11E-02
KCJ11_g20081.t1	KCNJ11	42	507.5	9.70E-03
KIF19_g10101.t1	KIF19	174	646.5	2.59E-02
MSTRG.4001.2	KIF1C	153.5	0	5.96E-07
KIF9_g18257.t1	KIF9	481.5	196	4.40E-02
MSTRG.9286.7	KLC1	0	201	3.43E-07
MSTRG.9286.3	KLC1	0	186	2.92E-05
MSTRG.13612.1	KLC2	4	1501.5	4.40E-08
MSTRG.19493.2	KLF3	202.5	0	2.12E-07
MSTRG.223.1	KLHDC10	7	2488	7.21E-05
MSTRG.5110.5	KMT2D	0	549	2.81E-10
KMT5B_g14118.t1	KMT5B	61	886.5	2.70E-03
MSTRG.65.2	KRBA1	0	217.5	2.20E-06
T3HPD_g9620.t1	L3HYPDH	70	246.5	2.77E-02
MSTRG.3083.7	LAMA3	0	780.5	2.08E-05
LARP7_g1742.t1	LARP7	0	58	3.08E-03
LCK_g8016.t1	LCK	37.5	237.5	3.97E-02
MSTRG.19226.5	LDHC	0	281.5	1.72E-07
MSTRG.19226.3	LDHC	0	688.5	2.19E-05
DNLI1_g14640.t1	LIG1	273.5	1360	2.50E-02
MSTRG.1744.1	LIPM	0	99	1.99E-03
MSTRG.10238.2	LMTK2	0	248.5	2.58E-06
LMTK2_g10160.t1	LMTK2	175.5	33.5	2.24E-05
PEG3_g7867.t1	LOC101396888	182.5	16.5	1.09E-05
MSTRG.9526.3	LOC106801183	0	407.5	6.84E-03
MSTRG.9526.4	LOC124903090	0	161.5	4.86E-07
PCT2B_g7110.t2	LPCAT2	163.5	42.5	4.61E-02

LY9_g6579.t2	LY9	30	0	2.14E-02
LZTL1_g18226.t1	LZTFL1	12	90.5	3.37E-02
PKHA6_g13543.t1	MAD1L1	724	12	9.87E-14
MSTRG.21441.5	MAGED4	50.5	903.5	1.97E-06
MSTRG.6953.2	MAGI3	184	704.5	3.22E-02
MSTRG.18901.2	MAML2	0	437.5	2.16E-07
MLH1_g5281.t1	MANSC1	0	39	2.35E-02
MSTRG.12202.3	MAP1A	1093.5	3045	2.39E-03
MSTRG.15514.5	MAP3K7	0	1353	1.45E-05
MSTRG.17672.2	MAP4	3	824.5	7.87E-03
M4K2_g13988.t1	MAP4K2	156	15	3.99E-05
MSTRG.1543.1	MAP4K3	0	259	8.35E-05
MK15_g9174.t1	MAPK15	136	54	4.14E-02
MSTRG.6402.2	MAPKAPK2	0	1428.5	8.37E-06
MSTRG.20190.2	MARCHF7	637.5	143.5	1.61E-02
MARH6_g5522.t1	MARH6_g5522.t1	591.5	128.5	2.54E-02
MSTRG.18126.2	MARVELD1	0	191.5	2.17E-05
MSTRG.16306.2	MATR3	55.5	2416	2.46E-06
MSTRG.16306.1	MATR3	9625	6219.5	3.63E-02
MSTRG.20235.2	MBD5	25.5	577.5	3.99E-03
MSTRG.20978.3	MBNL3	173	0	2.34E-07
MBTP1_g13200.t1	MBTPS1	65	640.5	3.47E-11
MSTRG.21069.3	MECP2	18	378.5	2.27E-02
MED13_g4045.t1	MED13	66	341	1.70E-02
MSTRG.14957.4	MED15	0	332	6.04E-08
MSTRG.19418.1	MED28	132	428.5	3.97E-02
MET17_g12171.t1	METTL17	0	237	2.40E-07
MSTRG.7835.3	MFN2	0	827	1.76E-05
MSTRG.10696.6	MGRN1	188.5	8	1.75E-06
MSTRG.7463.13	MICAL1	91	0	1.14E-05
MSTRG.16894.2	MIDN	1420	259	1.55E-03
MSTRG.16894.5	MIDN	128.5	7	6.44E-03
MSTRG.6825.4	MINDY1	50.5	423	1.60E-05
MSTRG.449.2	MIOS	0	345	4.62E-06
MSTRG.4916.3	MON2	0	936	4.83E-10
MPI_g12663.t1	MPI	1342	69.5	3.22E-03
MSTRG.16638.2	MRI1	0	119.5	1.55E-05
CSCL2_g2681.t1	MRPL14	193	630	3.45E-02
MSTRG.13668.1	MRPL21	0	61	3.69E-03

RM28_g10817.t1	MRPL28	181	648	2.54E-02
MSTRG.5386.4	MRPL51	0	62.5	1.48E-03
MSTRG.12037.3	MRPL52	0	122.5	4.75E-04
MSTRG.5216.2	MRPS35	0	128	2.20E-05
MSTRG.5216.1	MRPS35	420	175	5.08E-02
MSTRG.16006.2	MSH3	258.5	0	4.52E-09
MSTRG.4303.2	MSI2	2948	1111.5	7.24E-04
MSTRG.2119.2	MSMO1	102	539	8.15E-05
MSTRG.10043.17	MSTRG.10043.17	14	168	4.87E-04
MSTRG.10099.1	MSTRG.10099.1	0	41	1.90E-02
MSTRG.10597.2	MSTRG.10597.2	123.5	925	2.12E-02
MSTRG.10816.1	MSTRG.10816.1	85	5	2.52E-03
MSTRG.1084.1	MSTRG.1084.1	24	391.5	3.46E-04
MSTRG.11019.1	MSTRG.11019.1	0	322.5	7.19E-08
MSTRG.11021.1	MSTRG.11021.1	2125	569	8.11E-05
MSTRG.11026.1	MSTRG.11026.1	90.5	1246.5	3.03E-13
MSTRG.11142.1	MSTRG.11142.1	1045.5	303.5	1.09E-02
MSTRG.11254.2	MSTRG.11254.2	0	124.5	1.41E-02
MSTRG.11330.2	MSTRG.11330.2	152.5	8	4.02E-04
MSTRG.11487.1	MSTRG.11487.1	366.5	43.5	3.40E-02
MSTRG.11618.2	MSTRG.11618.2	0	956.5	2.40E-10
MSTRG.11627.4	MSTRG.11627.4	64.5	633.5	4.56E-02
MSTRG.11869.1	MSTRG.11869.1	26283.5	11988	1.16E-03
MSTRG.11883.1	MSTRG.11883.1	25430.5	10671.5	1.60E-02
MSTRG.11890.4	MSTRG.11890.4	0	326.5	1.05E-08
MSTRG.12253.1	MSTRG.12253.1	163.5	1419.5	4.86E-07
MSTRG.12255.1	MSTRG.12255.1	41.5	368	1.94E-04
MSTRG.12467.2	MSTRG.12467.2	889.5	501	3.92E-02
MSTRG.12846.1	MSTRG.12846.1	0	213	1.48E-06
MSTRG.13346.3	MSTRG.13346.3	226	0	1.92E-08
MSTRG.13512.2	MSTRG.13512.2	0	39.5	2.57E-02
MSTRG.13535.2	MSTRG.13535.2	37	374.5	6.66E-06
MSTRG.13608.3	MSTRG.13608.3	1289	336.5	1.86E-04
MSTRG.13667.1	MSTRG.13667.1	0	1687.5	7.06E-06
MSTRG.1394.1	MSTRG.1394.1	1201	3084	3.81E-02
MSTRG.14587.2	MSTRG.14587.2	24	344	1.82E-09
MSTRG.14633.1	MSTRG.14633.1	0	112.5	2.53E-05
MSTRG.14875.5	MSTRG.14875.5	471.5	0	4.25E-11
MSTRG.15018.5	MSTRG.15018.5	0	305	1.02E-07

MSTRG.15018.6	MSTRG.15018.6	8	1216.5	2.12E-07
MSTRG.15367.2	MSTRG.15367.2	7.5	1863.5	6.92E-03
MSTRG.15731.2	MSTRG.15731.2	0	158	5.30E-07
MSTRG.15785.2	MSTRG.15785.2	0	128	1.43E-05
MSTRG.15869.3	MSTRG.15869.3	55.5	2034	3.52E-02
MSTRG.15954.1	MSTRG.15954.1	555.5	204	1.79E-02
MSTRG.15962.1	MSTRG.15962.1	564.5	156	4.44E-02
MSTRG.15988.3	MSTRG.15988.3	0	2241	4.40E-06
MSTRG.16050.6	MSTRG.16050.6	658	1919	3.50E-02
MSTRG.16139.2	MSTRG.16139.2	0	4673.5	2.34E-17
MSTRG.16139.3	MSTRG.16139.3	0	2586.5	3.53E-06
MSTRG.16422.2	MSTRG.16422.2	428	2630.5	2.47E-02
MSTRG.1706.1	MSTRG.1706.1	0	127.5	2.69E-02
MSTRG.17228.3	MSTRG.17228.3	0	888	1.63E-05
MSTRG.17395.5	MSTRG.17395.5	143.5	912	2.60E-02
MSTRG.17521.2	MSTRG.17521.2	35	379	1.05E-02
MSTRG.17540.1	MSTRG.17540.1	0.5	65.5	6.23E-03
MSTRG.1764.2	MSTRG.1764.2	0	1401	5.39E-13
MSTRG.17669.3	MSTRG.17669.3	6165.5	1898.5	1.71E-02
MSTRG.17669.4	MSTRG.17669.4	0	1337.5	2.46E-12
MSTRG.17789.2	MSTRG.17789.2	0	201	2.18E-06
MSTRG.18240.1	MSTRG.18240.1	219	1144	2.42E-02
MSTRG.18269.2	MSTRG.18269.2	0	252.5	1.04E-07
MSTRG.18953.2	MSTRG.18953.2	32	0	2.44E-02
MSTRG.19053.1	MSTRG.19053.1	1249	2857.5	5.35E-02
MSTRG.19339.1	MSTRG.19339.1	0	267	1.27E-07
MSTRG.19437.2	MSTRG.19437.2	0	220	1.65E-07
MSTRG.19724.2	MSTRG.19724.2	0	94	1.89E-04
MSTRG.19746.1	MSTRG.19746.1	4475	1648	1.70E-02
MSTRG.19746.2	MSTRG.19746.2	6096	1240	4.60E-08
MSTRG.19747.6	MSTRG.19747.6	0	170	1.04E-06
MSTRG.19813.3	MSTRG.19813.3	0	309.5	7.69E-08
MSTRG.19851.1	MSTRG.19851.1	0	84.5	1.78E-04
MSTRG.19851.3	MSTRG.19851.3	320	127.5	3.59E-02
MSTRG.20168.4	MSTRG.20168.4	3855	11653.5	6.00E-03
MSTRG.20281.2	MSTRG.20281.2	1	792.5	6.87E-06
MSTRG.20307.3	MSTRG.20307.3	0	120	7.89E-05
MSTRG.20348.2	MSTRG.20348.2	0	566.5	2.81E-05
MSTRG.20635.1	MSTRG.20635.1	0	301.5	2.32E-08

MSTRG.21044.1	MSTRG.21044.1	40.5	661	2.41E-02
MSTRG.21044.3	MSTRG.21044.3	0	285	1.02E-07
MSTRG.21402.1	MSTRG.21402.1	68.5	1708	5.64E-04
MSTRG.21457.1	MSTRG.21457.1	59.5	316.5	3.87E-02
MSTRG.2401.2	MSTRG.2401.2	398.5	1410	1.50E-03
MSTRG.2535.2	MSTRG.2535.2	0	60	3.01E-02
MSTRG.2886.4	MSTRG.2886.4	757.5	2038.5	1.10E-02
MSTRG.2890.1	MSTRG.2890.1	213.5	943.5	4.23E-02
MSTRG.3220.1	MSTRG.3220.1	97	319.5	1.60E-02
MSTRG.3459.1	MSTRG.3459.1	0	77	4.61E-03
MSTRG.3525.3	MSTRG.3525.3	774.5	118.5	3.11E-02
MSTRG.3817.1	MSTRG.3817.1	1846.5	4765.5	4.25E-02
MSTRG.3874.3	MSTRG.3874.3	0	104.5	3.75E-05
MSTRG.4486.1	MSTRG.4486.1	74	12.5	1.61E-02
MSTRG.4557.3	MSTRG.4557.3	0	58.5	2.77E-03
MSTRG.4882.2	MSTRG.4882.2	0	304	8.25E-08
MSTRG.4951.3	MSTRG.4951.3	0	644.5	1.99E-10
MSTRG.5088.3	MSTRG.5088.3	0	1706.5	6.53E-09
MSTRG.5093.1	MSTRG.5093.1	538	51	1.77E-16
MSTRG.542.1	MSTRG.542.1	172.5	786	7.16E-04
MSTRG.5559.1	MSTRG.5559.1	6	456	8.69E-03
MSTRG.5741.1	MSTRG.5741.1	978.5	125.5	3.71E-04
MSTRG.5870.7	MSTRG.5870.7	80	459	4.65E-02
MSTRG.6049.1	MSTRG.6049.1	620.5	2254	6.92E-05
MSTRG.6291.2	MSTRG.6291.2	228.5	4	2.93E-03
MSTRG.6414.3	MSTRG.6414.3	61	2274.5	5.07E-02
MSTRG.7022.3	MSTRG.7022.3	0	234	2.16E-07
MSTRG.7022.4	MSTRG.7022.4	0	301.5	6.00E-08
MSTRG.7246.1	MSTRG.7246.1	0	1111.5	6.53E-09
MSTRG.7336.2	MSTRG.7336.2	156.5	6379.5	2.57E-02
MSTRG.7336.3	MSTRG.7336.3	1081.5	5083	3.14E-02
MSTRG.7513.2	MSTRG.7513.2	0	455	3.68E-05
MSTRG.7514.3	MSTRG.7514.3	6.5	265	7.12E-03
MSTRG.7514.6	MSTRG.7514.6	0	304	6.04E-08
MSTRG.78.2	MSTRG.78.2	0	963	2.51E-05
MSTRG.859.5	MSTRG.859.5	0	670	4.32E-08
MSTRG.860.2	MSTRG.860.2	0	231	4.38E-07
MSTRG.8890.2	MSTRG.8890.2	6	181	1.23E-04
MSTRG.9140.4	MSTRG.9140.4	389	15	5.61E-03

MSTRG.9466.2	MSTRG.9466.2	1	62.5	2.11E-03
MSTRG.955.1	MSTRG.955.1	242.5	761.5	1.39E-02
MSTRG.9732.3	MSTRG.9732.3	0	386	4.55E-05
MSTRG.9777.1	MSTRG.9777.1	290.5	3498.5	1.15E-11
MSTRG.17007.3	MTIF2	0	584	4.45E-10
MSTRG.21033.1	MTMR1	0	274.5	1.65E-07
MSTRG.7826.4	MTOR	30	486	1.62E-07
MBB1A_g3802.t2	MYBBP1A	38	1.5	2.64E-02
MSTRG.9098.1	MYC	2022	854	5.16E-02
MSTRG.10031.2	NAGA	265.5	2.5	3.58E-10
NNRE_g6677.t1	NAXE	65.5	410.5	2.69E-02
MSTRG.7912.2	NBL1	3876	308	1.13E-11
MSTRG.8896.6	NBN	149.5	45.5	1.67E-02
MSTRG.4496.1	NBR1	242	0	1.18E-08
MSTRG.5384.4	NCAPD2	0	327	1.15E-06
MSTRG.5089.4	NCKAP5L	284	126	1.22E-02
MSTRG.13216.3	NCOA2	0	410.5	3.27E-05
MSTRG.8753.3	NCOA5	0	200.5	3.44E-07
MSTRG.12063.4	NDRG2	0	103.5	3.32E-02
NDUAC_g9753.t1	NDUFA12	21.5	275.5	1.01E-03
NDUA8_g11668.t1	NDUFA8	90.5	0	1.33E-03
MSTRG.9850.2	NEDD1	0	234	5.10E-05
NEIL1_g12671.t1	NEIL1	0	397	2.02E-05
MSTRG.2131.1	NEK1	289.5	146.5	4.62E-02
MSTRG.18074.3	NFKB2	133	1337	2.16E-07
MSTRG.9885.3	NFYB	0	33.5	4.69E-02
MSTRG.8207.4	NFYC	79.5	381.5	4.83E-05
NGDN_g12096.t1	NGDN	0	119.5	1.96E-05
NHLC2_g18656.t1	NHLRC2	314	2374.5	8.46E-04
NHLC3_g883.t1	NHLRC3	292.5	1291.5	2.59E-05
NIPBL_g5590.t1	NIPBL	215	45.5	1.79E-04
PLET1_g21447.t1	NLRP2	266	1409.5	1.12E-06
NO40_g7999.t1	NO40_g7999.t1	4.5	129	7.17E-05
MSTRG.17933.2	NOL10	4	436.5	8.37E-04
ANPRA_g6753.t1	NPR1	1.5	1610	3.18E-14
MSTRG.16115.2	NREP	371.5	120	1.92E-04
MSTRG.11285.8	NSD2	0	157	2.36E-04
MSTRG.11285.7	NSD2	0	146.5	2.59E-04
NUD16_g18049.t1	NUDT16	80	0	2.29E-04

MSTRG.2678.1	NUDT3	0	716.5	1.67E-05
MSTRG.3614.1	NUMB	35	241.5	5.09E-02
MSTRG.15409.3	OBSL1	283	1323.5	8.69E-03
MSTRG.20952.2	OCRL	0	117.5	3.70E-05
O13C7_g11791.t1	OR2S2	69	607.5	5.09E-05
ORC6_g12889.t1	ORC6	19.5	171	2.52E-03
MSTRG.3283.1	OVAAL	1847	5641.5	3.24E-02
MSTRG.11634.1	PAPPA	692	1851	2.85E-02
MSTRG.14619.6	PARD3	523.5	132	1.81E-07
MSTRG.14619.7	PARD3	392	46.5	1.03E-02
PAR11_g5409.t1	PARP11	189	48	2.46E-03
MSTRG.12071.1	PARP2	0	189	1.17E-06
PARP4_g22110.t2	PARP4_g22110.t2	438.5	78.5	4.28E-03
MSTRG.5660.2	PARP8	460	133	6.86E-03
PARP8_g20851.t1	PARP8_g20851.t1	114	21	1.92E-03
MSTRG.17773.6	PBRM1	0	145.5	5.25E-03
MSTRG.17773.5	PBRM1	41	392.5	3.07E-02
MSTRG.13632.2	PC	83.5	816.5	2.18E-06
MSTRG.5033.5	PCBP2	368	1308.5	7.93E-05
PCDA4_g2962.t1	PCDA4_g2962.t1	0	33.5	4.72E-02
MSTRG.16361.4	PCDHGB5	0	332	6.04E-08
MSTRG.8880.2	PCMTD2	0	227.5	2.16E-07
PDE5A_g1762.t1	PDE5A	0	53	7.47E-03
DCTN1_g4130.t1	PDK2	25.5	309.5	1.50E-02
MSTRG.12488.2	PEAK1	649	2435.5	1.96E-02
MYO7A_g1329.t1	PELI1	364	50	2.49E-05
PELI3_g14068.t1	PELI3	234.5	718	4.15E-02
MSTRG.5441.1	PEX26	907	529.5	2.63E-02
MSTRG.8060.3	PHACTR4	290.5	0	1.49E-07
PHB_g4141.t1	PHB1	415	82	1.76E-05
MSTRG.13374.3	PHF21A	23.5	189	1.46E-02
PHYD1_g11517.t1	PHYHD1	216	0	1.69E-07
MSTRG.18948.1	PICALM	61.5	270	4.99E-02
MSTRG.19212.2	PIK3C2A	0	789	1.89E-05
MSTRG.5744.1	PIK3R1	6.5	1246	1.82E-05
MSTRG.5744.3	PIK3R1	2243	416.5	2.59E-02
P85B_g5800.t1	PIK3R2	270	30.5	1.27E-03
MSTRG.20439.2	PIR	5	242	4.86E-02
MSTRG.13648.1	PITPNM1	29.5	528	2.96E-07

UROK_g19017.t1	PLAU	0	364.5	3.75E-05
PLCE1_g18832.t1	PLCE1	711	122	8.19E-06
MSTRG.19210.1	PLEKHA7	1451	7474.5	3.91E-02
MSTRG.19042.2	PLEKHB1	0	215	2.00E-07
MSTRG.16928.2	PLEKHJ1	0	1222.5	1.70E-05
MSTRG.11285.2	PLPP5	264	109	3.41E-02
MSTRG.21081.4	PLXNA3	0	130	5.47E-04
MSTRG.210.1	PLXNA4	909.5	155	5.74E-03
MSTRG.7514.1	PNISR	2	333.5	1.76E-02
MSTRG.11372.2	PNPLA7	323.5	1003.5	2.85E-02
MSTRG.7981.1	PNRC2	5226.5	1319	8.57E-04
MSTRG.15028.2	POLE	189.5	25	3.82E-02
MSTRG.2797.1	POLH	204.5	30	1.71E-07
MSTRG.9660.2	PPM1A	372.5	14.5	1.76E-02
MSTRG.17762.3	PPM1M	34.5	284.5	4.90E-02
MSTRG.2575.2	PPP1R10	1002	0	1.18E-05
ASPP1_g9296.t1	PPP1R13B	337.5	90	2.46E-03
MSTRG.17459.2	PPP2R3A	26.5	145.5	2.13E-02
MSTRG.5728.2	PPWD1	21	195	1.86E-04
PRAF2_g21356.t1	PRAF2	299.5	69	2.37E-02
PRDM8_g20577.t1	PRDM8	33.5	244.5	2.30E-03
MSTRG.2395.1	PRL	0	36	3.62E-02
MSTRG.13970.1	PRMT1	0	1751.5	1.31E-05
MSTRG.2294.4	PRPF4B	0	596.5	1.49E-07
MSTRG.2294.2	PRPF4B	265	103.5	2.55E-02
PRP6_g8887.t1	PRPF6	310	115.5	8.11E-03
PRC2A_g2446.t2	PRRC2A	0	2198	4.49E-06
SERC_g6169.t1	PSAT1	42	1.5	5.00E-02
SERB_g10360.t1	PSPH	21.5	141.5	2.75E-02
PTBP3_g11741.t1	PTBP3	3.5	442	1.81E-03
RBM34_g2715.t1	PTCHD4	32.5	256.5	2.22E-02
MSTRG.5211.1	PTHLH	0	192	1.67E-04
PTK6_g8869.t1	PTK6	0	290.5	9.66E-08
PTPRD_g6079.t2	PTPRD	1	36	4.62E-02
MSTRG.8359.3	PTPRF	0	949	6.17E-10
MSTRG.17702.2	QARS1	0	645	2.38E-05
MSTRG.1912.3	QRFPR	0	216	2.25E-06
RFIP1_g11277.t1	RAB11FIP1	91	0	2.62E-05
RAB35_g15366.t1	RAB35	598	25.5	7.93E-03

RAI1_g799.t1	RAI1_g799.t1	0	282.5	3.44E-08
MSTRG.20312.7	RALB	0	246	1.07E-03
MSTRG.15869.2	RANBP2	497	3123.5	5.52E-03
MSTRG.6245.1	RASEF	369.5	3368.5	6.49E-05
RSLAA_g15459.t1	RASL10A	1135.5	458	1.84E-02
MSTRG.19682.2	RASSF6	0	176.5	3.44E-07
MSTRG.20587.2	RBM3	0	1205	7.98E-06
MSTRG.18745.1	RBM7	0	106.5	5.25E-03
RBP2_g16491.t1	RBP2	921.5	306.5	3.37E-02
RCN3_g14570.t1	RCN3	51	0	8.22E-04
REC8_g12079.t1	REC8	108	15.5	1.24E-04
MSTRG.9208.2	RECQL4	58	1033.5	7.88E-05
RELD1_g1845.t2	REELD1	250	0	8.01E-03
RELB_g14726.t1	RELB	282	8	2.14E-02
MSTRG.7445.1	REV3L	161.5	1704.5	4.86E-18
RGS17_g16253.t1	RGS17	22029	60036.5	3.76E-02
RGS20_g13466.t1	RGS20_g13466.t1	0	1006	5.59E-12
RHBD3_g15456.t1	RHBDD3	19.5	315	2.82E-02
MSTRG.18273.4	RHOBTB1	78	17.5	1.39E-02
RHOG_g19737.t1	RHOG	30	611.5	9.04E-15
MSTRG.4163.4	RHOT1	0	270	1.22E-07
MSTRG.6119.2	RIC1	15	333	3.63E-02
MSTRG.8383.1	RIMKLA	15.5	751.5	5.32E-02
MSTRG.2915.4	RIMS1	4	1219	1.52E-06
MSTRG.8436.2	RIN2	30	848.5	1.15E-03
RIN2_g8380.t1	RIN2	123	18	2.45E-03
RN227_g3701.t1	RN227_g3701.t1	227	31.5	2.66E-02
MSTRG.5722.4	RNF180	0	49	8.85E-03
RNF38_g11890.t1	RNF38	84	0	3.54E-05
RNF39_g2393.t1	RNF39	0	82.5	2.49E-04
MSTRG.17397.1	RNF7	0	169	1.26E-06
MSTRG.2716.1	RNF8	56.5	244.5	3.27E-03
RNPC3_g7051.t1	RNPC3	1586	58	1.03E-22
MSTRG.15064.8	RNPEP	63.5	0	8.75E-04
RL24_g3510.t1	RPL24	0	224	2.23E-07
RS3_g19680.t1	RPS3	47	313.5	5.93E-05
RUSD2_g12350.t1	RPUSD2	0	43	1.41E-02
RUSD4_g19254.t1	RPUSD4	413.5	84.5	6.06E-04
RWDD1_g7389.t1	RWDD1	33.5	293	2.07E-05

MSTRG.18544.1	RYR2	448.5	22.5	7.13E-17
SAAL1_g20089.t2	SAAL1_g20089.t2	793.5	328	2.18E-02
MSTRG.14671.1	SAPCD1	0	425.5	1.19E-08
MSTRG.16864.4	SAXO5	53	249.5	1.64E-02
MSTRG.8265.2	SCP2	0	378.5	4.65E-05
SCRG1_g1950.t1	SCRG1	10.5	578.5	6.57E-06
MSTRG.13583.1	SCYL1	200	2284	9.66E-08
PPR32_g13889.t2	SDHAF2	0	92	9.62E-05
MSTRG.19746.5	SEC31A	1685	9435	1.19E-02
MSTRG.18103.4	SEC31B	0	125	3.32E-02
SBP2L_g12453.t1	SECISBP2L	46	0	1.65E-02
SBP1_g6817.t1	SELENBP1	13	119	2.21E-02
MSTRG.6439.1	SELP	1362.5	354	1.21E-02
MSTRG.17727.2	SEMA3B	223	0	4.21E-08
MSTRG.7628.3	SENP6	212	23.5	5.81E-03
MSTRG.10040.2	SERHL2	633.5	162	4.82E-02
SERC1_g7362.t1	SERINC1	0	73	3.86E-03
MSTRG.17663.2	SETD2	365.5	3016.5	3.05E-05
MSTRG.12953.2	SF3B3	100.5	1233	2.55E-06
MSTRG.12953.3	SF3B3	3019	1115	4.76E-06
MSTRG.12953.1	SF3B3	514.5	3525.5	5.11E-05
MSTRG.4233.2	SFMBT2	328.5	6	6.97E-11
SFXN4_g18618.t1	SFXN4	179.5	13.5	3.55E-09
MSTRG.1329.1	SFXN5	838	405	6.15E-03
MSTRG.8238.2	SH2D5	0	406.5	8.35E-05
3BP2_g20211.t1	SH3BP2	0	71.5	1.67E-03
SH3R1_g1939.t1	SH3RF1	61.5	302	2.41E-02
S3TC1_g20231.t1	SH3TC1	164	0.5	1.72E-02
MSTRG.15546.3	SHPRH	0	834.5	1.31E-11
MSTRG.15546.1	SHPRH	1721.5	870	3.08E-02
SIAH1_g12903.t1	SIAH1	1507.5	65.5	4.81E-02
MSTRG.9553.3	SIPA1L1	178.5	0	3.29E-07
SI1L2_g19073.t1	SIPA1L2	2974.5	1	9.33E-05
MSTRG.14254.3	SIPA1L3	23.5	369.5	9.16E-06
MSTRG.4818.2	SLC16A3	0	165	2.54E-02
MSTRG.4666.6	SLC16A5	9	84.5	1.69E-02
S19A3_g16048.t1	SLC19A3	34	0	1.31E-02
MSTRG.14103.1	SLC22A12	241.5	32	3.93E-02
S23A2_g230.t2	SLC23A1	3885.5	31471	4.37E-02

MSTRG.19303.3	SLC26A1	0	163.5	4.67E-07
MSTRG.6327.3	SLC35D2	0	71	6.19E-04
S35D3_g7279.t1	SLC35D3	218.5	28	9.62E-07
MSTRG.5135.1	SLC38A1	3050	1473	1.32E-03
MSTRG.13513.1	SLC3A2	1973	0	5.73E-06
MSTRG.15404.2	SLC4A3	132	989.5	6.78E-03
SC5AA_g3603.t1	SLC5A10	0	485	3.39E-05
SC5AC_g20134.t1	SLC5A12	81.5	818.5	1.11E-02
MSTRG.1732.3	SLC66A3	0	185	2.88E-07
MSTRG.1732.1	SLC66A3	1090	5812	4.70E-02
MSTRG.15455.2	SMARCAL1	30	264	2.66E-02
MSTRG.1710.1	SMC6	170.5	0	2.45E-07
MSTRG.14134.2	SMG9	230	876.5	7.21E-04
MSTRG.14952.2	SMPD4	6	557	2.49E-02
SNPC3_g6062.t1	SNAPC3	1281.5	434	3.62E-02
SNPC4_g11415.t2	SNAPC4	517.5	1546	1.11E-02
MSTRG.13999.2	SNAPIN	0	32.5	5.27E-02
RU17_g14594.t1	SNRNP70	0	167	4.30E-07
NH2L1_g9959.t1	SNU13	82.5	0	1.58E-03
MSTRG.11185.3	SORBS2	235.5	6.5	1.12E-02
SPT33_g13277.t1	SPATA33	11	85.5	5.27E-02
MSTRG.11421.1	SPATC1	0	679	1.53E-09
MSTRG.5093.3	SPATS2	0	638.5	7.62E-11
MSTRG.19960.3	SPATS2L	657.5	15	1.02E-06
MSTRG.14007.2	SPHK2	0	164	2.90E-05
MSTRG.19773.1	SPP1	134	0	7.29E-07
MSTRG.5051.2	SPRYD3	121.5	1050.5	5.29E-03
SRFB1_g16748.t1	SRFBP1	186.5	4462	3.44E-03
MSTRG.7982.6	SRSF10	143	780.5	2.27E-05
MSTRG.7224.4	SRSF11	0	292	2.47E-08
SSBP2_g16620.t1	SSBP2_g16620.t1	51.5	271.5	3.84E-03
MSTRG.280.4	ST7	0	142.5	1.66E-05
STALP_g18873.t1	STAMBPL1	21.5	256	2.18E-06
STA10_g19716.t1	STARD10	72	10.5	2.87E-02
MSTRG.4464.1	STAT5A	0	796.5	4.34E-11
MSTRG.20917.2	STEEP1	23	160.5	8.79E-03
MSTRG.15407.2	STK11IP	18	304	8.65E-09
MSTRG.15435.2	STK36	0	721.5	2.08E-05
MSTRG.4573.3	STRADA	0	73	5.08E-04

MSTRG.11599.2	STRBP	0	1875	5.70E-06
PZRN3_g21155.t1	STS	102	0	4.20E-04
MSTRG.17544.2	STT3B	0	621	1.97E-05
STX10_g17266.t1	STX10	120	425.5	2.15E-02
MSTRG.5579.2	SUB1	0	694	1.75E-05
MSTRG.6461.1	SUCO	0	1685	1.26E-12
SYDE2_g7147.t1	SYDE2	4	121.5	5.06E-05
MSTRG.9643.4	SYNE2	2547	351	6.63E-03
MSTRG.2671.3	SYNGAP1	27.5	128.5	4.77E-02
MSTRG.12614.1	SYNM	148.5	771	4.23E-02
MSTRG.8729.1	SYS1	573.5	1936	3.44E-04
SYT15_g19177.t3	SYT15_g19177.t3	8531	2841.5	1.76E-02
MSTRG.15514.6	TAB2	41.5	1486.5	4.38E-11
MSTRG.14463.1	TAF3	196.5	0	2.25E-07
MSTRG.8832.3	TAF4	0	222.5	2.04E-06
TAF4B_g2903.t1	TAF4B	402	1077.5	1.90E-02
MSTRG.20196.2	TANC1	0	694	2.17E-05
MSTRG.7821.5	TARDBP	87	504	8.16E-03
TASP1_g8419.t1	TASP1	462	215.5	4.76E-02
MSTRG.17204.2	TATDN2	323	140	3.59E-03
TBC14_g20241.t1	TBC1D14	134.5	0	1.75E-03
TBL1X_g21940.t1	TBL1X	637.5	113	1.84E-02
TBPL1_g7300.t1	TBPL1	0	355	4.92E-08
MSTRG.16612.4	TCERG1	0	224	2.23E-07
MSTRG.16612.3	TCERG1	0	849.5	1.74E-05
MSTRG.10035.1	TCF20	629	266.5	2.85E-02
TCO2_g15488.t1	TCN2	203.5	77	2.30E-02
PAPD5_g12913.t1	TENT4B	0	329	1.86E-05
TESP1_g4935.t1	TESPA1	0	40.5	4.96E-02
MSTRG.18321.1	TET1	1076	7082	1.33E-07
TGFB1_g14806.t1	TGFB1	112	37	2.62E-02
MSTRG.11746.5	TGFBR1	0	191	4.21E-07
MSTRG.3055.2	TGIF1	0	363.5	3.75E-05
SCN1A_g15656.t1	THAP4	3.5	105.5	3.34E-05
THOC3_g17122.t1	THOC3	73.5	0.5	5.84E-04
MSTRG.10578.1	THUMPD1	72.5	5	1.76E-03
TLE3_g12613.t1	TLE3	54.5	0	1.80E-03
MSTRG.12362.2	TLN2	3649.5	273	4.32E-06
MSTRG.48.3	TM6SF1	0	190	4.30E-07

MSTRG.4727.3	TMC6	0	132.5	5.66E-04
TMED6_g13094.t1	TMED6	0	570	4.54E-10
MSTRG.4997.3	TMEM198	0	88	2.06E-03
MSTRG.15410.1	TMEM198	160.5	772	2.00E-02
MSTRG.3528.9	TMEM207	399.5	1805	9.62E-03
MSTRG.221.1	TMEM209	0	746	1.22E-07
MSTRG.18283.2	TMEM26	0	243	4.84E-07
MSTRG.17133.2	TMEM43	560	1415.5	4.72E-02
MSTRG.6381.1	TMEM81	0	821	4.13E-10
MSTRG.15070.2	TMEM9	99.5	831	7.20E-04
MSTRG.17856.2	TMF1	2.5	705.5	2.21E-02
MSTRG.18719.1	TMPRSS13	1020	353.5	2.34E-02
TNR1A_g5389.t1	TNFRSF1A	929	369.5	2.18E-03
MSTRG.690.3	TNS3	0	535.5	2.32E-05
TM1L1_g4098.t1	TOM1L1	106.5	0	1.58E-05
ASPP2_g15840.t1	TP53BP2	6906.5	1653	4.28E-03
MSTRG.18708.2	TREH	63	0	1.83E-04
TRIM3_g19966.t1	TRIM3	124	20.5	6.32E-05
MSTRG.19157.1	TRIM66	1384	515	8.88E-04
MSTRG.5512.3	TRIO	0	412	4.82E-05
TRPV1_g3818.t1	TRPV1	58.5	447.5	8.55E-04
MSTRG.19226.7	TSG101	0	558	2.81E-05
MSTRG.3074.1	TTC39C	258	1719.5	3.38E-06
MSTRG.3074.2	TTC39C	524	142	4.99E-04
MSTRG.9460.1	TTLL5	66.5	281.5	3.78E-02
TBD_g4048.t1	TUBD1	367	77	2.10E-02
MSTRG.8097.2	TXLNA	0	1162.5	1.12E-05
MSTRG.6779.8	UBAP2L	0	703	1.75E-05
MSTRG.6779.7	UBAP2L	0	315	4.58E-05
MSTRG.2759.3	UBR2	1008.5	2490.5	1.40E-02
MSTRG.4520.2	UBTF	81.5	676.5	4.62E-10
MSTRG.2674.3	UQCC2	0	192	4.35E-03
MSTRG.2674.2	UQCC2	100.5	0	1.79E-02
URGCP_g753.t1	URGCP	0	1092.5	1.44E-05
URM1_g11533.t1	URM1	0	384.5	2.49E-08
USF3_g3453.t1	USF3	0	36.5	3.14E-02
MSTRG.18979.3	USP35	322	899.5	2.98E-02
PNISR_g7479.t1	USP45	527.5	207.5	3.45E-03
MSTRG.15551.2	UTRN	0	327	4.36E-05

PFD3_g21917.t1	VBP1	11	116	5.21E-02
MSTRG.17577.2	VILL	121	549	1.67E-02
MSTRG.8927.1	VIRMA	1993	198	2.07E-05
MSTRG.7842.4	VPS13D	0	191.5	4.21E-07
MSTRG.5133.6	VPS54	0	43.5	3.57E-02
MSTRG.13935.3	VSIG10L	0	474.5	6.63E-04
WBP1L_g18715.t1	WBP1L	30.5	252.5	5.87E-03
MSTRG.17954.2	WDR11	95.5	1053.5	4.84E-07
WDR35_g1591.t1	WDR35	4	83	1.37E-02
WSB2_g15354.t1	WSB2	6.5	58	4.98E-02
MSTRG.8372.2	YBX1	40	1674.5	3.44E-08
YTHD2_g7979.t1	YTHDF2	442.5	84	4.58E-02
MSTRG.7463.8	ZBTB24	0	337	6.00E-08
MSTRG.7463.3	ZBTB24	312	0	5.19E-05
MSTRG.7463.7	ZBTB24	11.5	995.5	3.09E-02
ZC3HF_g15899.t1	ZC3H15	289.5	2.5	9.28E-04
MSTRG.13092.2	ZC3H18	929.5	406.5	6.11E-05
MSTRG.13092.1	ZC3H18	131.5	992	2.59E-02
MSTRG.11776.3	ZCCHC7	0	224.5	2.23E-07
ZDH18_g7938.t1	ZDHHC18	54.5	8	1.79E-02
MSTRG.13425.4	ZDHHC5	382	4.5	3.29E-19
MSTRG.13425.3	ZDHHC5	239	812.5	4.05E-02
ZEB1_g15149.t1	ZEB1_g15149.t1	0	211.5	1.86E-07
ZFAN3_g2594.t1	ZFAND3	64.5	0	5.52E-03
MSTRG.10280.3	ZKSCAN1	0	230.5	2.12E-07
MSTRG.10261.2	ZKSCAN5	0	263	1.33E-07
MSTRG.20710.2	ZMYM3	0	599	7.00E-10
ZN239_g19123.t1	ZNF239	255	944	4.11E-02
MSTRG.13831.2	ZNF264	122.5	945.5	1.45E-02
MSTRG.5377.3	ZNF384	0	198.5	1.84E-06
MSTRG.2866.3	ZNF451	230	0	1.69E-06
MSTRG.21625.5	ZNF558	0	197.5	5.60E-07
ZN599_g14920.t1	ZNF599	0	549	1.68E-07
ZN619_g18172.t1	ZNF619	28.5	353.5	3.44E-04
ZN621_g18173.t1	ZNF621	1378.5	242.5	2.18E-06
MSTRG.7122.1	ZNF644	58.5	1	5.31E-03
MSTRG.4363.1	ZNF652	0	80.5	6.11E-04
MSTRG.10485.3	ZNF785	73	380	6.03E-04
MSTRG.16698.3	ZNF844	223.5	0	2.26E-08

Growing vs. Pre-Ovulatory

Transcript ID	Gene Name	Average G	Average P	P-Value
3BP5L_g9526.t1	3BP5L_g9526.t1	103	0	1.31E-03
AAKG2_g37.t1	AAKG2_g37.t1	73.5	0	1.57E-03
MSTRG.8656.2	AAR2	106.5	0	1.93E-04
MSTRG.2809.2	AARS2	0	303.5	1.83E-06
MSTRG.2809.1	AARS2	194	0	1.37E-05
MSTRG.11700.1	ABCA1	561.5	0	3.29E-03
MSTRG.11702.1	ABCA1	25	0	4.73E-02
ABCA3_g10716.t1	ABCA3	10.5	676	9.29E-12
ABCA3_g10529.t1	ABCA3	31	0	2.38E-02
MSTRG.4637.2	ABCA5	477	0	3.74E-06
MSTRG.4631.2	ABCA6	126.5	0	1.02E-03
ABCBA_g19053.t2	ABCB10	1274	298.5	4.35E-02
ABCBB_g20941.t1	ABCB11	50	0	1.01E-02
MSTRG.11037.1	ABCC1	100.5	0	2.32E-04
MSTRG.869.4	ABCC4	116.5	0	1.45E-04
MSTRG.3485.2	ABCC5	133.5	0	3.65E-03
ABCD1_g21883.t1	ABCD1	46	270.5	3.93E-02
MSTRG.39.1	ABCF2	190.5	0	1.53E-05
ABCF3_g3259.t1	ABCF3	70	0	1.14E-03
MSTRG.1641.2	ABHD1	129	0	1.97E-03
ABHDA_g3472.t1	ABHD10	132.5	568.5	2.23E-02
ABD12_g8339.t1	ABHD12	35	0	1.58E-02
MSTRG.17755.2	ABHD14A	73.5	0	1.03E-03
ACY1_g18374.t1	ABHD14A	53.5	0	3.34E-03
AB17A_g17600.t1	ABHD17A	43.5	0	8.46E-03
MSTRG.14560.3	ABI1	375.5	8.5	3.02E-02
TARSH_g3517.t1	ABI3BP	3.5	59	1.38E-02
ABITM_g11762.t1	ABITRAM	49	0	5.46E-03
MSTRG.6510.2	ABL2	3193	0	1.08E-10
MSTRG.2637.2	ABRAXAS2	26	0	4.02E-02
MSTRG.16921.2	ABTB1	51	0	5.41E-03
ABTB2_g13501.t1	ABTB2	2163	0	1.63E-09
MSTRG.7206.2	ACADM	65.5	0	2.01E-03
ACBD7_g15122.t1	ACBD7	43.5	0	1.18E-02
1A1L1_g13534.t2	ACCS	27	0	3.57E-02
ACDSB_g9349.t1	ACDSB_g9349.t1	110.5	0	1.50E-04
MSTRG.12026.5	ACIN1	586.5	0	8.14E-07

MSTRG.12026.7	ACIN1	199	0	2.03E-05
MSTRG.12026.9	ACIN1	13	277.5	1.49E-02
MSTRG.5995.2	ACO1	0	235.5	2.15E-05
MSTRG.939.1	ACOD1	49.5	0	5.76E-03
MSTRG.13394.1	ACP2	23.5	0	5.35E-02
PPA6_g6897.t1	ACP6	107	0	4.60E-04
ACRBP_g5378.t1	ACRBP	46	0	1.71E-02
MSTRG.13104.4	ACSF3	3.5	301.5	1.15E-05
ACSM1_g10513.t2	ACSM4	25	0	4.54E-02
CS054_g14822.t1	ACTMAP	198.5	0	1.34E-05
ACTN1_g9548.t1	ACTN1	27	0	5.43E-02
ARP8_g18413.t1	ACTR8	1038	0	1.57E-08
AVR2B_g18150.t1	ACVR2B	56.5	0	2.65E-03
ADA12_g18562.t1	ADAM12	214.5	0	1.11E-05
MSTRG.1756.3	ADAM17	0	246	2.05E-05
ADA20_g9529.t1	ADAM20	37.5	0	2.41E-02
MSTRG.527.2	ADAM22	670	0	1.69E-07
REXO4_g11449.t1	ADAMTS13	0	624.5	7.37E-06
ATS2_g17180.t1	ADAMTS2	660.5	0	7.23E-07
MSTRG.16572.1	ADAMTS2	298	982.5	3.13E-02
MSTRG.18617.1	ADAMTS8	0	35	1.20E-02
PNM6A_g21864.t1	ADAMTSL2	35	0	1.63E-02
MSTRG.6842.3	ADAMTSL4	123.5	0	2.82E-04
MSTRG.6768.6	ADAR	483.5	0	4.61E-07
MSTRG.6768.4	ADAR	224.5	0	1.80E-05
ADAT1_g13157.t1	ADAT1	152.5	0	3.97E-05
ADCK2_g194.t1	ADCK2	1476	75	1.77E-02
ADCY6_g5078.t1	ADCY6	170.5	0	2.02E-04
MSTRG.10709.1	ADCY9	143	0	9.50E-05
MSTRG.18035.2	ADD3	129.5	0	1.65E-02
AGRF4_g2712.t1	ADGRF4	207.5	0	2.74E-05
AGRG6_g16223.t1	ADGRG6	69	0	1.92E-03
MSTRG.16626.1	ADGRL1	199.5	1083.5	3.66E-03
MSTRG.15053.3	ADIPOR1	659	0	2.92E-06
PAQR1_g15718.t1	ADIPOR1	132.5	0	1.88E-04
MSTRG.15053.2	ADIPOR1	164.5	1039	3.14E-02
MSTRG.19175.1	ADM	162	0	3.81E-05
MSTRG.8787.3	ADNP	2469.5	0	4.83E-08
AA1R_g15710.t1	ADORA1	696	0	1.78E-07

MSTRG.17521.4	ADPRH	6	449.5	4.74E-02
ADRB2_g16968.t2	ADRB2	7	225.5	2.77E-03
MSTRG.15691.4	AFDN	2034.5	0	6.18E-10
MSTRG.19764.2	AFF1	3017	0	8.68E-07
MSTRG.19764.5	AFF1	13.5	222	1.78E-02
MSTRG.21027.1	AFF2	0.5	210.5	2.21E-02
AFF4_g16809.t1	AFF4	44	0	7.04E-03
AFG31_g13290.t1	AFG3L1P	428.5	0	4.70E-07
MSTRG.1381.2	AFTPH	45.5	0	7.07E-03
AGFG1_g16049.t1	AGFG1	39	0	1.13E-02
AGFG2_g10227.t1	AGFG2	556.5	0	1.17E-06
MSTRG.10891.6	AGPAT3	155.5	0	4.24E-03
AGRG1_g12979.t1	AGRG1_g12979.t1	33.5	0	1.98E-02
AGRV1_g16642.t1	AGRV1_g16642.t1	51.5	0	4.36E-03
SAHH_g11595.t1	AHCY	125.5	0	1.32E-04
SAHH2_g7009.t1	AHCYL1	29.5	0	3.53E-02
AHDC1_g7955.t1	AHDC1	438	18.5	2.56E-02
MSTRG.13483.4	AHNAK	1516	0	4.71E-06
AHNK_g13909.t1	AHNAK	187.5	0	1.68E-04
AHR_g483.t1	AHR	34.5	0	3.79E-02
MSTRG.166.1	AHRR	1	32	4.01E-02
MSTRG.18351.6	AIFM2	117.5	0	1.16E-04
AIPL1_g3788.t2	AIPL1	156.5	0	4.88E-05
MSTRG.7253.5	AK4	763	0	8.47E-08
MSTRG.7253.4	AK4	1210.5	0	2.77E-07
MSTRG.21145.2	AKAP17A	688	0	6.58E-06
MSTRG.21145.3	AKAP17A	185.5	0	2.26E-05
MSTRG.145.4	AKAP5	125	0	4.56E-04
MSTRG.5878.2	AKAP8L	155.5	0	6.93E-05
ALDR_g242.t1	AKR1B1	332.5	0	4.85E-06
MSTRG.10034.1	AKR1E2	31.5	0	2.58E-02
ARK74_g7827.t1	AKR7A2	2.5	30	4.65E-02
MSTRG.15231.2	AKT3	318.5	0	2.01E-05
MSTRG.20622.2	ALAS2	0	113.5	1.15E-04
HEM0_g21378.t1	ALAS2	108.5	0	6.10E-04
AL1A1_g6143.t1	ALDH1A1	32.5	0	2.25E-02
AL1L2_g9818.t1	ALDH1L2	261.5	0	3.98E-05
MSTRG.6073.1	ALDH1L2	181	0	2.46E-04
AL3B2_g14114.t1	ALDH3B2	1490	189	2.13E-02

MMSA_g9496.t2	ALDH6A1	59.5	1274	4.31E-04
MMSA_g9496.t1	ALDH6A1	306.5	22	1.53E-02
ALDOA_g10436.t1	ALDOA	74	0	3.30E-03
ALG5_g1038.t1	ALG5	3.5	176.5	5.16E-02
MSTRG.9423.2	ALKBH1	115.5	0	1.41E-04
MSTRG.1324.2	ALMS1	169.5	34	4.04E-02
AL5AP_g1067.t1	ALOX5AP	573.5	0	3.15E-07
MSTRG.12683.4	ALPK3	9	3000.5	5.26E-02
MSTRG.19934.8	ALS2	837.5	132	3.77E-02
MSTRG.6984.1	ALX3	730	162.5	2.09E-02
THOC4_g4661.t1	ALYREF	537.5	38	9.50E-05
MSTRG.13379.1	AMBRA1	607.5	0	2.20E-06
MSTRG.13379.2	AMBRA1	945	58.5	6.13E-05
MSTRG.5132.1	AMIGO2	151.5	4296	1.34E-02
AMOL1_g19577.t1	AMOL1_g19577.t1	546	116	3.80E-02
GCST_g18315.t1	AMT	89	0	2.99E-02
MSTRG.7040.6	AMY2A	782.5	0	9.60E-08
MSTRG.7040.3	AMY2A	54	0	6.86E-03
MSTRG.4615.1	AMZ2	107.5	0	1.69E-04
ANGI_g12178.t1	ANG	183.5	880.5	1.62E-02
ANGL3_g6119.t1	ANGL3_g6119.t1	140.5	0	1.73E-04
ANGL4_g17511.t1	ANGPTL4	135.5	0	1.32E-02
MSTRG.13106.2	ANKRD11	1578.5	103	9.26E-07
MSTRG.13106.3	ANKRD11	685	0	7.30E-06
AN13C_g7209.t1	ANKRD13C	2544	0	1.69E-06
MSTRG.14555.4	ANKRD26	142.5	0	4.79E-05
MSTRG.14555.2	ANKRD26	22.5	375	8.13E-04
MSTRG.14555.3	ANKRD26	496	35.5	1.97E-03
ANR28_g18064.t1	ANKRD28	150.5	3.5	1.22E-02
MSTRG.17507.4	ANKRD28	32	0	3.64E-02
ANR49_g19582.t1	ANKRD29	30	0	3.08E-02
MSTRG.9363.1	ANKRD45	1849.5	0	4.30E-09
MSTRG.9363.4	ANKRD45	1213	0	9.04E-09
ANR50_g1785.t1	ANKRD50	104.5	0	2.12E-04
ANR53_g1272.t1	ANKRD53	3216	0	2.23E-10
ANR61_g10155.t1	ANKRD61	31.5	0	2.67E-02
MSTRG.10695.2	ANKS3	25	0	4.62E-02
ANS4B_g10525.t1	ANKS4B	3.5	44	1.52E-02
ANLN_g371.t1	ANLN	72.5	0	1.01E-03

ANO7_g7796.t1	ANO7	50.5	0	8.11E-03
MSTRG.21116.4	ANOS1	1015	0	1.56E-07
MSTRG.20413.2	ANOS1	30	0	2.86E-02
ANXA2_g12531.t1	ANXA2	46	0	9.57E-03
ANXA3_g20568.t1	ANXA3	109.5	0	1.92E-04
MSTRG.2289.2	AOC1	142	0	2.83E-04
MSTRG.2289.3	AOC1	31	0	2.45E-02
MSTRG.12013.2	AP1G2	69	0	2.47E-03
AP2A1_g14559.t1	AP2A1	153.5	0	1.76E-03
AP2A2_g14214.t1	AP2A2	99	0	1.27E-03
AP4M1_g10206.t1	AP4M1	97	1	5.32E-02
AP5B1_g14030.t1	AP5B1	138.5	0	1.35E-04
APAF_g9775.t1	APAF1	68	0	3.72E-02
AB1IP_g15177.t1	APBB1IP	27	0	3.91E-02
MSTRG.19518.3	APBB2	294.5	19	2.21E-03
MSTRG.19518.2	APBB2	359	4.5	2.41E-03
MSTRG.17714.1	APEH	144.5	0	5.95E-04
MSTRG.17714.2	APEH	54	864	3.14E-02
MSTRG.2110.1	APELA	89	0	3.95E-04
APH1A_g6850.t1	APH1A_g6850.t1	417.5	0	7.44E-03
APH1B_g12546.t1	APH1B	391	0	9.03E-06
MSTRG.1359.1	APLF	98	0	2.96E-04
MSTRG.20673.2	AR	1	157.5	1.35E-02
MSTRG.20574.3	ARAF	1086.5	0	2.42E-08
MSTRG.20574.2	ARAF	9.5	986.5	4.23E-07
F172B_g3513.t1	ARB2BP	99.5	0	3.05E-03
ARC1B_g5407.t1	ARC1B_g5407.t1	310	0	1.96E-06
MSTRG.9491.3	AREL1	81.5	0	1.92E-03
TOM1_g9487.t1	AREL1	650	0	7.11E-03
BIG2_g8735.t1	ARFGEF2	52	0	5.76E-03
BIG3_g7271.t1	ARFGEF3	93.5	0	4.12E-04
MSTRG.2049.2	ARFIP1	230.5	0	6.65E-06
MSTRG.2049.3	ARFIP1	78.5	0	1.17E-03
ARFP1_g1869.t1	ARFIP1	31.5	0	2.23E-02
MSTRG.8865.4	ARFRP1	268.5	0	1.70E-04
MSTRG.8865.2	ARFRP1	421	52.5	4.60E-02
ARH40_g10102.t1	ARH40_g10102.t1	205.5	0	2.05E-05
RHGBA_g12316.t1	ARHGAP11A	48.5	0	9.46E-03
RHG22_g19160.t1	ARHGAP22	48	0	4.83E-02

RHG30_g6573.t1	ARHGAP30	114	0	2.54E-04
MSTRG.3633.2	ARHGAP31	0	185.5	2.89E-05
MSTRG.3633.1	ARHGAP31	3436.5	468.5	1.10E-02
MSTRG.18627.2	ARHGAP32	1932	0	8.59E-10
MSTRG.9215.1	ARHGAP39	27	464	1.69E-05
MSTRG.20421.2	ARHGAP6	400	0	8.01E-07
MSTRG.20421.1	ARHGAP6	1029.5	227	4.70E-02
RHG08_g10013.t1	ARHGAP8	53.5	0	3.81E-03
MSTRG.4800.2	ARHGDIA	430.5	0	5.35E-07
GDIR2_g5255.t2	ARHGDIB	43.5	0	8.19E-03
MSTRG.18681.4	ARHGEF12	2961	0	2.29E-10
MSTRG.10536.1	ARHGEF12	32.5	0	2.05E-02
ARHGF_g3683.t1	ARHGEF15	29.5	0	2.88E-02
ARHG2_g6695.t1	ARHGEF2	35	0	1.66E-02
ARHGP_g4779.t1	ARHGEF25	844	0	3.13E-07
ARG39_g11917.t1	ARHGEF39	86.5	0	4.46E-04
MSTRG.20376.5	ARHGEF4	577.5	0	6.06E-07
MSTRG.20376.3	ARHGEF4	349	3.5	5.77E-04
MSTRG.764.1	ARHGEF7	115.5	707	3.08E-03
AL14E_g20151.t1	ARL14EP	24	0	5.45E-02
MSTRG.5672.1	ARL15	1.5	265.5	4.92E-08
MSTRG.5672.2	ARL15	325.5	0	1.59E-06
MSTRG.4792.2	ARL16	346	0	1.73E-06
MSTRG.14658.4	ARL6IP4	149	0	1.07E-04
MSTRG.20830.1	ARMCX3	300	0	2.17E-06
ARMX6_g21583.t1	ARMCX6	8.5	139	4.47E-02
MSTRG.17565.5	ARPP21	42.5	0	1.24E-02
ARRB2_g3754.t1	ARRB2	106	0	2.17E-04
ARRD4_g12776.t1	ARRDC4	881	0	6.93E-05
ARSA_g10067.t1	ARSA	380	0	2.09E-06
MSTRG.10141.1	ARSA	36.5	0	1.43E-02
MSTRG.15970.2	ARSB	847.5	11.5	1.59E-02
ARSD_g21956.t1	ARSD	26.5	0	3.79E-02
MSTRG.9051.1	ARSK	1	33	5.45E-02
ARVC_g15643.t1	ARVCF	26.5	0	3.98E-02
ASAH1_g11210.t1	ASAH1	130	0	7.19E-05
ASB15_g308.t1	ASB15	49.5	0	4.85E-03
ASB8_g5115.t2	ASB8	176.5	0	1.64E-03
MSTRG.456.1	ASNS	2806	401.5	2.19E-02

MSTRG.20036.5	ASNSD1	167	0.5	1.94E-04
MSTRG.13251.5	ASPH	227.5	0	1.37E-05
ECM2_g5891.t2	ASPN	41	0	2.19E-02
MSTRG.4809.3	ASPSCR1	412.5	0	1.00E-06
ASXL1_g8555.t1	ASXL1	94.5	0	3.75E-03
MSTRG.1659.2	ASXL2	635	0	1.17E-07
MSTRG.1686.2	ATAD2B	158	0	4.08E-05
MSTRG.2583.3	ATAT1	40	0	2.64E-02
MSTRG.17951.3	ATE1	367	0	1.14E-06
MSTRG.17951.4	ATE1	266.5	0	1.10E-05
MSTRG.5078.3	ATF1	295	0	2.42E-06
MSTRG.5078.4	ATF1	176.5	0	1.92E-05
MSTRG.6573.2	ATF3	241.5	1530.5	3.60E-04
MSTRG.6647.1	ATF6	3273.5	0	8.33E-11
MSTRG.6647.2	ATF6	0	1751.5	8.73E-10
MSTRG.5286.2	ATF7IP	208	1865	4.62E-03
MSTRG.10674.1	ATF7IP2	651	0	3.63E-07
ATG10_g16621.t1	ATG10_g16621.t1	32	0	4.65E-02
MSTRG.5058.2	ATG101	137.5	0	1.26E-04
MSTRG.5058.1	ATG101	126	4.5	4.72E-02
MSTRG.13383.3	ATG13	0	270	1.87E-05
MSTRG.9706.3	ATG14	167	0	2.27E-05
MSTRG.15317.4	ATG16L1	127.5	0	7.86E-05
MSTRG.15317.3	ATG16L1	211	18.5	2.68E-03
MSTRG.15317.1	ATG16L1	46.5	343.5	8.29E-03
ATG2A_g13992.t1	ATG2A	85.5	0	4.78E-04
MSTRG.13554.2	ATG2A	543	0	3.69E-03
MSTRG.7489.1	ATG5	0.5	54	1.81E-02
ATLA2_g1453.t1	ATL2	73	0	9.41E-04
ATLA3_g13953.t1	ATL3	70.5	0	1.73E-03
MSTRG.18814.1	ATM	468.5	0	3.16E-07
MSTRG.12272.7	ATOSA	267.5	0	2.58E-02
MSTRG.12272.8	ATOSA	457.5	66.5	3.38E-02
AT10B_g17061.t1	ATP10B	56	337	2.23E-02
AT11A_g787.t1	ATP11A	83	0	1.13E-03
MSTRG.21014.1	ATP11C	990.5	87.5	5.57E-03
AT131_g5751.t1	ATP13A1	103.5	0	2.49E-04
AT132_g7806.t1	ATP13A2	169	0	2.74E-05
MSTRG.3538.4	ATP13A3	358	0	4.59E-04

MSTRG.3525.6	ATP1A1	1456	0	1.44E-07
ATP23_g4764.t1	ATP23	166	5.5	4.87E-02
MSTRG.4367.3	ATP5MC1	52.5	0	7.17E-03
AT5G1_g4151.t1	ATP5MC1	48	0	7.49E-03
ATP68_g9297.t1	ATP5MJ	101.5	0	3.03E-04
AT5F1_g21323.t1	ATP5PB	507	0	3.17E-07
AT5F1_g6983.t1	ATP5PB	158	0	1.28E-03
MSTRG.10995.2	ATP5PF	216.5	0	1.11E-05
ATP5S_g11958.t1	ATP5S_g11958.t1	83.5	0	6.03E-04
MSTRG.1170.2	ATP8A2	93	0	4.97E-04
ATPG_g3496.t1	ATPG_g3496.t1	69	0	1.18E-03
ATPO_g10972.t1	ATPO_g10972.t1	27.5	0	4.97E-02
MSTRG.17685.2	ATRIP	203	0	3.39E-03
MSTRG.17685.1	ATRIP	23.5	277	1.89E-02
ATRN1_g18646.t1	ATRNL1	32	0	3.02E-02
ATRX_g21506.t1	ATRX	89.5	0	4.20E-04
ATX1_g2153.t1	ATXN1	68	0	1.50E-03
ATX3_g9393.t1	ATXN3	27.5	0	3.38E-02
A7L3B_g9686.t1	ATXN7L3B	24	0	5.31E-02
MSTRG.10411.5	AUTS2	1728.5	0	1.71E-09
MSTRG.10411.4	AUTS2	3646.5	563	9.06E-04
UBP54_g4767.t1	AVIL	2	43	5.71E-03
MSTRG.14180.2	AXL	663	1	1.12E-07
B3GT6_g7611.t1	B3GALT6	6	46.5	2.20E-02
B3GA2_g2788.t1	B3GAT2	51	0	5.17E-03
B3GNL_g4700.t1	B3GNL_g4700.t1	74	0	9.86E-04
B3GN4_g15271.t1	B3GNT4	14398.5	0	5.49E-14
MSTRG.15397.2	B3GNT5	625.5	0	1.12E-07
MSTRG.15397.4	B3GNT5	0	246	2.05E-05
B3GN5_g3244.t2	B3GNT5	48.5	0	5.43E-03
MSTRG.4236.1	B3GNT5	476	70	1.74E-02
B3GN8_g14800.t1	B3GNT8	65.5	0	2.42E-03
B3GN8_g14801.t1	B3GNT8	61	0	3.53E-03
MSTRG.3635.3	B4GALT4	0	238	2.14E-05
B4GT4_g3435.t1	B4GALT4	25.5	0	4.32E-02
B9D1_g3606.t1	B9D1	216.5	7	5.31E-02
BABA1_g5835.t1	BABAM1	167	0	4.20E-05
MSTRG.10983.1	BACH1	1145.5	0	8.28E-05
BAG1_g5971.t2	BAG1	128	0	1.39E-02

BAG4_g11284.t1	BAG4	617.5	0	1.61E-06
MSTRG.12144.2	BAHD1	206.5	0	1.11E-05
MSTRG.4770.2	BAIAP2	73	0	1.32E-03
MSTRG.10809.3	BAIAP3	50.5	0	2.63E-02
BANP_g13248.t1	BANP	168	0	8.96E-05
MSTRG.4959.3	BAZ2A	7.5	261	1.59E-02
MSTRG.20193.5	BAZ2B	389	0	1.10E-05
BBLN_g11540.t1	BBLN	4078	0	3.16E-11
BBS2_g12957.t1	BBS2	3183.5	376	7.00E-03
MSTRG.3707.2	BBX	2101	52	1.45E-03
MSTRG.611.5	BCAP29	319	0	4.70E-06
MSTRG.611.4	BCAP29	84	0	5.95E-04
MSTRG.21055.3	BCAP31	152.5	0	2.31E-04
BCAR1_g13150.t1	BCAR1	358.5	0	1.07E-06
BCAS4_g8756.t1	BCAS4_g8756.t1	553	12.5	4.55E-02
MSTRG.20698.1	BCKDHA	1289	0	4.54E-08
MSTRG.11133.2	BCKDHA	655.5	0	1.36E-06
ODBA_g14802.t1	BCKDHA	31	0	2.40E-02
MSTRG.7216.1	BCL11B	92.5	634	5.02E-02
MSTRG.8585.2	BCL2L1	465.5	4	1.83E-02
B2L14_g5284.t1	BCL2L14	4224	156.5	8.48E-09
B2L15_g6960.t1	BCL2L15	169	0	8.07E-05
BCL3_g14738.t1	BCL3	6699	1363	1.69E-02
MSTRG.6892.5	BCL9	0	570	9.02E-08
MSTRG.6892.3	BCL9	74	715	3.41E-05
BCS1_g16111.t1	BCS1L	75	0	1.08E-03
MSTRG.13739.1	BET1	1839	488.5	4.30E-02
BFAR_g10573.t1	BFAR	9	451	4.24E-02
BHA15_g10161.t1	BHLHA15	322	0	7.09E-04
BHE41_g5214.t1	BHLHE41	65	0	2.22E-03
BHMT1_g16601.t1	BHMT	178	2.5	1.27E-03
MSTRG.14756.1	BICDL1	240.5	0	5.61E-06
MSTRG.18846.4	BIRC3	222.5	0	1.68E-05
MSTRG.18846.2	BIRC3	144.5	0	1.73E-02
MSTRG.1594.2	BIRC6	708	113.5	8.94E-03
MSTRG.802.2	BIVM	43	0	4.45E-02
BL1S1_g4850.t1	BLOC1S1	14.5	267.5	5.27E-02
K1109_g1776.t1	BLTP1	146.5	4	8.07E-04
MSTRG.4125.1	BLTP2	1226	37.5	3.71E-05

MSTRG.9855.5	BLTP3B	1758	50	2.02E-06
MSTRG.19189.1	BMAL1	236.5	0	2.06E-05
BMI1_g15155.t1	BMI1	25	0	4.73E-02
MSTRG.2246.2	BMP1	1092	0	4.53E-06
BMP15_g21376.t2	BMP15	157	0	4.73E-05
MSTRG.8490.1	BMP2	115	0	1.03E-03
MSTRG.19813.5	BMPR1B	1296.5	0	5.39E-09
MSTRG.19813.4	BMPR1B	461.5	1715	2.34E-02
FAIM3_g3559.t1	BNIP5	124.5	0	9.73E-05
MSTRG.16510.5	BOD1	123	0.5	1.80E-04
MSTRG.16510.2	BOD1	67	0	1.39E-03
BOLA2_g10443.t1	BOLA2B	140.5	0	2.24E-03
MSTRG.3928.1	BORCS6	11	113.5	2.12E-03
MSTRG.2290.2	BPHL	158	0	4.70E-03
MSTRG.15140.2	BPNT1	70	0	2.08E-03
MSTRG.4597.6	BPTF	578	0	6.15E-07
MSTRG.4597.7	BPTF	1586	0	2.01E-06
BRAF_g192.t1	BRAF	292	0	5.00E-05
MSTRG.119.2	BRAF	28	0	4.29E-02
BRCA1_g4344.t1	BRCA1	51	0	7.88E-03
MSTRG.2652.7	BRD2	1542.5	0	2.60E-08
MSTRG.2652.4	BRD2	1363.5	0	4.13E-07
MSTRG.2652.6	BRD2	507	2846.5	2.18E-02
MSTRG.11441.2	BRD3	315.5	0	5.78E-05
BRD7_g12915.t1	BRD7	294.5	0	1.55E-04
MSTRG.5462.3	BRD9	352	0	2.31E-05
BRI3B_g15228.t1	BRI3B_g15228.t1	116	0	1.46E-04
BRX1_g5574.t1	BRIX1	72	0	1.08E-02
BRMS1_g14062.t1	BRMS1	147	0	8.53E-05
MSTRG.17244.3	BRPF1	467.5	0	8.78E-04
MSTRG.17244.2	BRPF1	49	367.5	1.61E-02
MSTRG.17244.5	BRPF1	131.5	0	4.73E-02
BRSK1_g14221.t1	BRSK1	210.5	0	9.22E-05
MSTRG.13496.4	BSCL2	54.5	0	4.13E-03
BSND_g8163.t1	BSND	40.5	0	9.68E-03
HDHD3_g11722.t1	BSPRY	1510	0	1.20E-05
BST2_g5826.t1	BST2	59.5	0	8.60E-03
MSTRG.16922.1	BTBD2	0	401	1.28E-05
BTF3_g16558.t1	BTF3	30	149.5	1.83E-02

MSTRG.8279.2	BTF3L4	392.5	0	1.73E-06
BTG2_g6243.t1	BTG2_g6243.t1	2463	0	1.65E-06
NINL_g7462.t1	BVES	73.5	610	2.76E-02
MSTRG.13661.3	C11ORF24	2.5	45	3.67E-03
MSTRG.18925.2	C11ORF54	160	0	2.87E-05
CL056_g4750.t2	C12ORF56	134.5	0	7.18E-05
C10_g5360.t1	C12ORF57	28.5	0	4.57E-02
MSTRG.12474.2	C15ORF39	604	0	1.25E-07
CP090_g10667.t1	C16ORF90	1538.5	0	3.46E-09
NJMU_g3970.t1	C17ORF75	26.5	0	4.51E-02
MSTRG.4646.2	C17ORF80	134.5	0	6.95E-04
CS044_g5852.t1	C19ORF44	54	0	5.12E-03
C1D_g1312.t1	C1D	27	0	3.91E-02
MSTRG.8169.4	C1ORF122	117.5	0	6.47E-04
CA216_g8066.t1	C1ORF216	5696.5	0	1.17E-10
CIART_g6849.t2	C1ORF54	26	0	4.00E-02
C1QL3_g15130.t1	C1QL3	44.5	0	1.03E-02
MSTRG.4746.2	C1QTNF1	942	0	1.25E-07
C1QT2_g17057.t1	C1QTNF2	363.5	0	1.37E-06
MSTRG.5588.2	C1QTNF3	412	0	9.87E-06
MSTRG.5588.1	C1QTNF3	1980.5	385	5.78E-03
C1RL_g5353.t1	C1RL	699	0	8.71E-08
C2CD2_g10907.t1	C2CD2	80.5	0	1.46E-03
MSTRG.5255.1	C2CD5	953	0	2.18E-08
MSTRG.5255.4	C2CD5	513.5	0	2.48E-07
MSTRG.5255.2	C2CD5	362	0	1.00E-06
T150A_g1172.t1	C2ORF68	73.5	0	2.63E-03
MSTRG.1233.1	C2ORF68	75	0	1.36E-02
MSTRG.17037.1	C3	212.5	0	1.11E-04
MSTRG.2677.1	C3ORF18	92.5	0	3.70E-04
SIM29_g2537.t1	C3ORF18	63	0	2.37E-03
CE024_g16828.t1	C5ORF24	87.5	0	1.17E-02
CAC1S_g5639.t1	C5ORF34	235	0	6.57E-05
FBN2_g420.t1	C6ORF118	29	0	2.95E-02
CF132_g2635.t1	C6ORF132	98	0	2.58E-04
CF062_g2189.t1	C6ORF62	142	0	4.11E-03
MSTRG.2709.1	C6ORF89	209.5	1664	3.19E-03
MSTRG.2709.2	C6ORF89	266	41.5	4.65E-02
CO8A_g8155.t1	C8A	123	0	1.20E-02

MSTRG.11398.2	C8G	32	0	4.92E-02
MSTRG.9231.2	C8ORF33	50.5	0	2.77E-02
CI152_g11755.t1	C9ORF152	46	0	1.35E-02
MSTRG.6018.5	C9ORF72	378	0	2.27E-03
CA100_g15902.t1	CA100_g15902.t1	33.5	0	2.64E-02
MSTRG.7792.1	CA6	251.5	0	1.13E-05
MSTRG.14906.3	CABIN1	506	0	8.30E-06
CABYR_g2891.t1	CABYR	63.5	0	2.43E-03
MSTRG.11361.2	CACNA1B	794	21.5	3.10E-08
CAC1B_g11345.t1	CACNA1B	32	0	2.40E-02
MSTRG.4338.2	CACNA1G	233.5	0	5.87E-04
MSTRG.4338.1	CACNA1G	392	1435	5.18E-02
MSTRG.17738.2	CACNA2D2	294	45	1.68E-02
MSTRG.4406.2	CACNB1	191	0	1.93E-05
CACB3_g5077.t1	CACNB3	602	0	1.33E-07
MSTRG.13606.1	CACNG4	2.5	27.5	3.45E-02
CACO1_g4958.t1	CALCOCO1	60.5	0	2.57E-03
MSTRG.15536.5	CALM1	0	407.5	1.20E-05
CALR_g8213.t1	CALR	171.5	0	2.22E-05
MSTRG.17246.3	CAMK1	184	0	2.62E-05
MSTRG.14481.2	CAMK1D	2536	61.5	4.39E-02
MARK2_g17874.t1	CAMK2A	49.5	0	5.76E-03
MSTRG.18392.1	CAMK2G	0	438.5	1.63E-07
MSTRG.18392.3	CAMK2G	222.5	0	8.05E-06
MSTRG.18392.2	CAMK2G	200	0	1.27E-05
CK2N1_g7849.t1	CAMK2N1	63	4	1.23E-02
WDR36_g16708.t2	CAMK4	1	372.5	6.01E-03
PG4_g18271.t1	CAMP	152	14	8.11E-03
CAMP1_g11407.t1	CAMSAP1	36.5	0	1.43E-02
MSTRG.3999.2	CAMTA2	30	809	6.53E-03
CAP1_g8124.t1	CAP1	3	36.5	2.62E-02
MSTRG.10837.5	CAPN15	339.5	0	1.26E-06
MSTRG.10837.3	CAPN15	335	0	1.42E-06
MSTRG.18692.3	CAPN6	147	0	5.54E-03
CAN6_g21654.t1	CAPN6	24.5	0	5.08E-02
MSTRG.5197.6	CAPRIN2	413.5	0	1.23E-06
CAPR2_g5186.t1	CAPRIN2	248	0	4.80E-06
MSTRG.5197.1	CAPRIN2	227	0	1.34E-05
MSTRG.17021.1	CAPS	52	0	3.73E-03

MSTRG.19919.2	CARF	51.5	0	1.40E-02
MSTRG.2414.2	CARMIL1	0	875	9.54E-09
MSTRG.477.2	CASD1	327	0	2.09E-06
MSTRG.1853.2	CASP6	174	0	2.13E-05
MSTRG.8604.2	CBFA2T2	387	0	1.16E-06
MSTRG.8604.3	CBFA2T2	482.5	0	1.62E-05
S26A4_g651.t2	CBLL1	0	566.5	5.41E-08
MSTRG.10911.1	CBS	44	0	7.72E-03
MSTRG.10911.2	CBS	34	0	1.83E-02
CBX1_g4168.t1	CBX1	183	2	3.18E-02
CBX5_g4947.t1	CBX5	136	0	1.18E-04
CC127_g9567.t1	CC127_g9567.t1	173.5	0	6.82E-04
C2D2A_g20298.t1	CC2D2A	1790.5	0	1.63E-09
MSTRG.3267.6	CCBE1	88	0	2.34E-03
MSTRG.13859.2	CCDC106	144	0	5.01E-05
CC106_g14375.t1	CCDC106	138.5	0	5.55E-05
MSTRG.11814.1	CCDC107	67	0	1.85E-03
MSTRG.5455.2	CCDC127	45.5	0	6.46E-03
MSTRG.10025.3	CCDC134	137.5	0	2.75E-03
CC136_g281.t1	CCDC136	36.5	0	2.60E-02
CC137_g4651.t2	CCDC137	33.5	0	1.83E-02
CC152_g5620.t1	CCDC152	34	0	2.65E-02
CC154_g10761.t2	CCDC154	99.5	0.5	8.84E-04
CC171_g6060.t1	CCDC171	32.5	0	2.23E-02
STR6L_g11887.t1	CCDC180	113	0	6.60E-04
CC181_g6330.t1	CCDC181	33.5	0	2.18E-02
MSTRG.11406.2	CCDC183	43	0	2.05E-02
CC194_g5827.t2	CCDC194	148.5	0	3.96E-05
MSTRG.5839.3	CCDC194	50	0	1.36E-02
CCD27_g7668.t1	CCDC27	114.5	0	2.43E-03
MSTRG.3533.2	CCDC50	823.5	0	5.73E-06
MSTRG.14074.1	CCDC61	84.5	0	3.55E-03
MSTRG.14662.2	CCDC62	48	0	1.41E-02
CC74B_g15612.t1	CCDC74B	40	0	1.54E-02
MSTRG.14041.1	CCDC9	198.5	6	5.13E-03
MSTRG.14041.2	CCDC9	64	282.5	3.01E-02
CCL22_g12969.t1	CCL22	49	0	4.67E-03
CCL27_g5944.t1	CCL27	38.5	0	2.58E-02
MSTRG.699.2	CCM2	224	0	1.68E-05

MSTRG.7511.1	CCNC	381	35.5	2.22E-04
CCNE1_g15020.t1	CCNE1	43	0	8.07E-03
MSTRG.16025.3	CCNH	106	0	3.20E-04
CCNK_g9235.t1	CCNK	17	173	5.05E-02
MSTRG.7676.2	CCNL2	1449.5	75	2.75E-02
CCNP_g14836.t1	CCNP	62	0	1.90E-03
MSTRG.17653.1	CCRL2	207.5	0	1.00E-05
MSTRG.13624.5	CCS	43	0	1.01E-02
CCSE2_g19193.t1	CCSER2	567	0	1.02E-05
TCPB_g4718.t1	CCT2	35	0	1.71E-02
CD123_g15104.t1	CD123_g15104.t1	110	0	3.05E-03
MSTRG.14657.2	CD19	1075	0	5.32E-08
MSTRG.6705.1	CD1B	122	3	1.62E-02
MSTRG.6705.3	CD1D	402	0	8.14E-07
OX2G_g3466.t1	CD200	58.5	0	1.12E-02
MSTRG.2821.1	CD2AP	300	0	2.64E-04
CLM1_g4512.t1	CD300LF	54	0	3.30E-03
MSTRG.10751.1	CD33	8371.5	1714.5	2.05E-02
CD34_g6447.t1	CD34_g6447.t1	82.5	416	9.42E-03
MSTRG.216.4	CD3G	513.5	0	8.26E-06
MSTRG.13328.1	CD44	62.5	0	4.11E-03
MSTRG.13328.3	CD44	39.5	0	1.09E-02
CD81_g14175.t1	CD81	84	0	5.05E-04
CD82_g13539.t1	CD82	986.5	0	5.51E-08
CD86_g3406.t1	CD86	70.5	0	2.28E-03
MSTRG.8377.1	CDC20	1478	168.5	1.89E-03
MSTRG.17678.2	CDC25A	44.5	350	3.17E-03
MSTRG.16207.2	CDC42SE2	404	0	1.26E-06
MSTRG.16207.4	CDC42SE2	439.5	0	2.89E-06
MSTRG.14971.3	CDC45	69.5	0	6.68E-03
MSTRG.14971.2	CDC45	53.5	0	9.82E-03
CDC7_g7115.t1	CDC7	66.5	0	2.25E-03
MSTRG.2201.2	CDCA2	129	0	9.77E-05
MSTRG.2201.3	CDCA2	298	3.5	2.22E-02
MSTRG.5372.1	CDCA3	439	18	2.41E-03
MSTRG.20116.1	CDCA7	38	0	1.40E-02
MSTRG.12911.1	CDH1	76	0	1.14E-02
CAD11_g13009.t2	CDH11	5618.5	18	1.05E-16
MSTRG.5533.2	CDH18	790.5	0	3.86E-08

CAD20_g3048.t2	CDH20	9469	201.5	4.03E-07
MSTRG.12027.3	CDH24	210.5	0	9.87E-06
MSTRG.12027.5	CDH24	0	62	9.82E-03
CADH6_g5552.t1	CDH6	1216	0.5	2.35E-08
CDK17_g9765.t1	CDK17	23.5	0	5.43E-02
MSTRG.5927.4	CDK20	206.5	0	6.17E-05
CDKA1_g15251.t1	CDK2AP1	52.5	3.5	1.80E-02
CDKA2_g14105.t1	CDK2AP2	88.5	0	2.30E-03
CDK4_g4773.t1	CDK4	222	18.5	3.25E-03
CK5P1_g8567.t1	CDK5RAP1	31	0	2.51E-02
MSTRG.11627.3	CDK5RAP2	273	0	2.41E-05
CDK9_g11552.t1	CDK9	35.5	0	1.57E-02
CDKL2_g20539.t1	CDKL2	0	69.5	8.35E-04
DOCK4_g8220.t1	CDKN2C	168	0	2.86E-05
CDS2_g8451.t1	CDS2_g8451.t1	62	0	4.85E-03
MSTRG.13094.2	CDT1	379	0	2.46E-06
CEBPA_g14996.t1	CEBPA	42	0	9.59E-03
MSTRG.5434.1	CECR	39.5	293.5	6.33E-03
MSTRG.5437.2	CECR2	43	0	1.34E-02
CELF2_g22024.t1	CELF2	94	0	1.80E-03
MSTRG.17691.2	CELSR3	182.5	0	2.76E-05
MSTRG.13129.9	CENPBD1P	217	0	5.22E-05
MSTRG.19871.8	CENPE	183.5	2	1.43E-03
CENPE_g22351.t1	CENPE_g22351.t1	30	0	2.66E-02
MSTRG.20813.4	CENPI	410.5	0	6.68E-07
MSTRG.20813.2	CENPI	325	0	1.84E-06
MSTRG.5727.2	CENPK	93	0	4.61E-04
MSTRG.1677.1	CENPO	418	0	6.25E-07
MSTRG.7810.2	CENPS	132.5	0	6.66E-05
MSTRG.12879.1	CENPT	175.5	0	1.96E-05
CENPV_g3615.t1	CENPV	48	0	5.74E-03
MSTRG.4609.3	CEP112	53.5	0	3.29E-03
MSTRG.16170.2	CEP120	283.5	10.5	7.70E-05
MSTRG.16170.3	CEP120	36	0	2.42E-02
MSTRG.4773.4	CEP131	96	0	7.46E-04
C170B_g9312.t1	CEP170B	119.5	0	1.07E-04
MSTRG.2984.2	CEP192	391	0	8.84E-07
MSTRG.2984.3	CEP192	328.5	35	1.28E-02
CE295_g19594.t1	CEP295	95.5	332	4.07E-02

MSTRG.18926.4	CEP295	64.5	0	4.17E-02
CE350_g6403.t1	CEP350	50	0	4.89E-03
MSTRG.6518.1	CEP350	132	1710.5	8.11E-03
MSTRG.14389.1	CEP89	222.5	0	1.74E-04
MSTRG.4589.1	CEP95	203	10.5	3.63E-02
CEP97_g3509.t1	CEP97	634.5	3202.5	1.78E-02
CERS2_g6835.t1	CERS2	61.5	0	2.67E-03
CERS3_g12765.t1	CERS3	181.5	0	1.26E-03
CERT_g16573.t1	CERT1	0	38.5	8.59E-03
MSTRG.12784.1	CES1	852.5	64	1.13E-02
EST3_g13030.t1	CES3	96	0	5.15E-04
MSTRG.7546.1	CES4A	2.5	39	1.72E-02
CFA73_g15326.t1	CFA73_g15326.t1	79.5	0	6.98E-04
CFAH_g15779.t1	CFAH_g15779.t1	83	0	9.41E-04
CF251_g15275.t2	CFAP251	8	111.5	1.38E-04
CF410_g10872.t1	CFAP410	37	0	1.41E-02
CFA44_g3456.t1	CFAP44	43	1337	1.71E-04
CFA52_g3670.t1	CFAP52	2121	22.5	1.99E-02
CFA91_g3425.t2	CFAP91	162.5	0	1.02E-04
CFAB_g2470.t1	CFB	219.5	0	1.60E-05
CFAI_g1726.t1	CFI	122.5	0	9.70E-05
MSTRG.11106.1	CGGBP1	124	2.5	3.73E-05
MSTRG.12298.3	CGNL1	270.5	0	2.71E-03
MSTRG.12298.2	CGNL1	174	0	2.78E-03
CGRF1_g9659.t1	CGRRF1	993.5	7	9.90E-03
MSTRG.12159.1	CHAC1	971	61.5	5.31E-04
MSTRG.7964.1	CHCHD4	1	59.5	9.11E-03
CHCH7_g13451.t1	CHCHD7	29	0	3.19E-02
MSTRG.3941.2	CHD3	0	2558	1.62E-09
MSTRG.3941.3	CHD3	0	883	7.10E-06
MSTRG.3941.7	CHD3	2447.5	3	6.28E-05
MSTRG.3941.5	CHD3	907.5	5	1.56E-02
MSTRG.5381.1	CHD4	4685	1061.5	3.91E-02
CHD5_g7685.t2	CHD5	166.5	0	2.44E-05
MSTRG.8701.1	CHD6	1270	10.5	4.82E-02
MSTRG.13256.3	CHD7	992.5	0	1.57E-08
MSTRG.13256.4	CHD7	859	0	3.51E-08
MSTRG.13256.2	CHD7	84	1447.5	3.49E-02
MSTRG.12054.2	CHD8	25	1794	9.14E-06

MSTRG.14826.2	CHEK2	234.5	0	6.49E-06
MSTRG.15031.2	CHFR	593	0	3.12E-07
MSTRG.10140.1	CHKB	89	0	9.96E-04
RAE2_g15889.t1	CHML	53.5	0	3.30E-03
CHM1B_g21990.t1	CHMP1B	37	0	1.35E-02
CHM2A_g14257.t1	CHMP2A	911.5	8.5	3.89E-02
CHMP5_g5970.t1	CHMP5	72	0	1.01E-03
CHP2_g10489.t1	CHP2	72	0	1.05E-03
MSTRG.20883.3	CHRDL1	1148	0	1.59E-07
MSTRG.20883.1	CHRDL1	1715.5	33.5	3.02E-05
ACHD_g16008.t1	CHRND	35	0	1.66E-02
CHSTF_g18580.t1	CHST15	24.5	0	5.26E-02
CHST7_g21319.t1	CHST7	10	191	2.79E-04
MSTRG.16197.1	CHSY3	642	2172.5	3.40E-02
MSTRG.12914.2	CHTF8	442.5	9.5	9.82E-07
IKKA_g18766.t1	CHUK	83	0	1.78E-02
CHUR_g9577.t1	CHURC1	95	0	3.00E-04
CIA2A_g12552.t1	CIA2A_g12552.t1	35	0	2.00E-02
CIART_g6849.t1	CIART	603	0	1.44E-07
MSTRG.14162.1	CIC	1114.5	0	1.03E-08
MSTRG.14162.2	CIC	1192	0	1.20E-08
CINP_g9268.t1	CINP	424.5	46	1.31E-02
MSTRG.16895.3	CIRBP	213	0	7.08E-05
MSTRG.14758.2	CIT	550	71.5	8.07E-03
CITE2_g16229.t1	CITED2	15	390.5	1.73E-05
CITE4_g8140.t1	CITED4	250.5	0	4.67E-06
CK054_g19592.t1	CK054_g19592.t1	273	0	3.35E-06
CKAP4_g9823.t1	CKAP4	1887.5	11056	3.21E-03
MSTRG.13388.3	CKAP5	0	2272.5	2.56E-06
MSTRG.9278.1	CKB	45.5	0	1.52E-02
KCRM_g14715.t1	CKM	126	0	1.33E-04
KCRU_g12409.t1	CKMT1A	1507.5	142	3.18E-02
MSTRG.20322.2	CLASP1	13.5	1527	9.79E-03
MSTRG.17562.1	CLASP2	2616	0	2.23E-10
MSTRG.17562.2	CLASP2	0	2224	5.98E-10
CLAP2_g18128.t1	CLASP2	53.5	0	9.81E-03
MSTRG.13392.1	CLCC1	0	361.5	2.91E-06
MSTRG.13392.2	CLCC1	120.5	0	1.62E-04
MSTRG.2136.3	CLCN3	146	0	6.13E-05

CLD10_g863.t1	CLDN10	151.5	0	7.43E-03
MSTRG.3417.1	CLDN11	171	15	2.54E-03
CLD11_g3196.t1	CLDN11	35	0	1.66E-02
CLD15_g10274.t1	CLDN15	47	0	1.56E-02
CLD19_g8323.t1	CLDN19	0	384.5	1.28E-05
CLD34_g21936.t1	CLDN34	40	0	1.38E-02
CLD7_g3736.t1	CLDN7	25	0	4.49E-02
CLC11_g14524.t1	CLEC11A	27	0	4.01E-02
MSTRG.10672.5	CLEC16A	215.5	0	8.80E-06
MSTRG.10672.6	CLEC16A	304	0	2.84E-05
CLGN_g1823.t1	CLGN	173	590	4.60E-02
MSTRG.10390.5	CLIP2	672.5	0	1.09E-06
MSTRG.6741.3	CLK2	247	0	1.65E-05
MSTRG.9331.1	CLMN	1248	10	4.12E-03
CSTN1_g7727.t1	CLSTN1	17.5	211	2.62E-02
CLU_g3855.t1	CLUH	33	0	1.95E-02
MSTRG.5495.1	CMBL	367.5	76	1.70E-02
MSTRG.12847.1	CMTM4	23.5	0	5.30E-02
CKLF6_g18117.t1	CMTM6	37	0	1.86E-02
MSTRG.2718.2	CMTR1	0.5	964	2.18E-08
LIPS_g14792.t2	CNFN	49	0	1.24E-02
MSTRG.15596.1	CNKSR3	5871	910.5	8.37E-04
CNNM3_g16417.t1	CNNM3	27.5	0	4.21E-02
MSTRG.4851.3	CNOT2	399.5	0	1.19E-06
MSTRG.4851.2	CNOT2	200	0	1.41E-05
MSTRG.13892.4	CNOT3	452.5	44.5	5.19E-04
MSTRG.169.1	CNOT4	26.5	0	3.87E-02
MSTRG.4451.2	CNP	592	2.5	8.72E-04
MSTRG.15421.1	CNPPD1	5091	1080.5	2.07E-02
CNR1_g7520.t1	CNR1	29.5	0	3.04E-02
MSTRG.15207.1	CNST	1136	190	3.40E-03
MSTRG.5168.1	CNTN1	1073	94	2.65E-04
CNTN1_g5154.t1	CNTN1	52	0	6.53E-03
CNTN3_g17872.t1	CNTN3	74.5	0	3.18E-02
MSTRG.17295.4	CNTN6	28	0	4.70E-02
MSTRG.11615.3	CNTRL	1126	0	1.16E-07
MSTRG.18512.1	COA6	39.5	0	1.10E-02
COBL_g704.t1	COBL	53	0	3.49E-03
MSTRG.7639.2	COL12A1	247.5	0	1.51E-05

COEA1_g9049.t1	COL14A1	29.5	0	2.89E-02
MSTRG.20042.1	COL3A1	1103	199	4.33E-02
MSTRG.772.1	COL4A1	0	5406.5	7.98E-07
MSTRG.15363.5	COL4A3	0	2681.5	1.52E-06
MSTRG.17490.1	COL4A4	32.5	0	2.51E-02
MSTRG.20874.2	COL4A6	67.5	2086	1.64E-02
CO8A1_g3531.t1	COL8A1	391.5	98.5	5.22E-02
COL11_g1669.t1	COLEC11	136.5	0	8.16E-05
COMD1_g1340.t1	COMMD1	37.5	0	1.40E-02
COPG1_g17783.t1	COPG1	8398.5	1035	2.13E-02
CSN4_g20591.t1	COPS4	27	250.5	5.22E-02
CSN5_g13403.t1	COPS5	41.5	0	1.99E-02
COQ3_g7480.t1	COQ3	203	0	1.85E-05
MSTRG.3887.1	COX10	679	0	8.26E-08
COX11_g4097.t2	COX11	45.5	0	7.61E-03
COX15_g18773.t1	COX15	24	0	5.48E-02
COX16_g9534.t2	COX16	27.5	0	3.40E-02
COX42_g8538.t1	COX4I2	83.5	1.5	4.41E-02
CP2DE_g22167.t1	CP2DE_g22167.t1	83	0	5.33E-04
CP2DE_g9976.t1	CP2DE_g9976.t1	48.5	1709.5	1.59E-04
MSTRG.5609.1	CPLANE1	807	0	2.67E-07
MSTRG.5609.4	CPLANE1	555	0	3.08E-06
MSTRG.5609.2	CPLANE1	0	424.5	1.34E-05
CPLN1_g5591.t1	CPLANE1	120	0	7.31E-04
MSTRG.11593.2	CPLANE2	89	688	2.20E-02
HEM6_g3535.t1	CPOX	51	0	5.97E-03
MSTRG.12446.1	CPPED1	79.5	0	7.12E-04
MSTRG.9202.2	CPSF1	197.5	0	1.90E-05
MSTRG.4857.2	CPSF6	1478.5	0	2.84E-06
CPZIP_g6313.t1	CPZIP_g6313.t1	39.5	0	1.35E-02
CRUM3_g17734.t1	CRB3	1071.5	0	4.00E-07
RAD18_g6790.t1	CRCT1	85	1809.5	7.55E-04
MSTRG.19885.10	CREB1	193.5	0	2.10E-05
MSTRG.19885.5	CREB1	323	0	2.61E-05
CREG1_g6312.t1	CREG1	113	0	1.57E-04
MSTRG.10121.1	CRELD2	224.5	0	1.78E-04
CRIM1_g1471.t1	CRIM1	228.5	0	7.19E-06
MSTRG.1583.1	CRIM1	7	2887	1.75E-03
MSTRG.9313.1	CRIP1	40.5	0	1.17E-02

MSTRG.2783.3	CRIP3	43	0	9.82E-03
MSTRG.2783.2	CRIP3	35.5	0	2.25E-02
CRLS1_g8442.t1	CRLS1	53.5	0	1.44E-02
CROCC_g7804.t1	CROCC	345	0	1.24E-06
MSTRG.7878.3	CROCC	56.5	0	3.49E-03
MSTRG.424.3	CRPPA	129.5	0	1.24E-04
MSTRG.9918.1	CRY1	14.5	329.5	6.80E-04
CRY2_g13549.t1	CRY2	722.5	0	5.45E-06
CSMD2_g8042.t1	CSMD2	398.5	16	1.96E-03
MSTRG.12376.2	CSNK1G1	374	0	8.38E-07
MSTRG.17590.1	CSRNP1	582	2903.5	2.17E-02
CYTC_g8349.t1	CST3	615	4291	2.43E-02
MSTRG.10897.1	CSTB	38.5	0	1.16E-02
MSTRG.20809.3	CSTF2	114.5	0	1.67E-04
MSTRG.19307.2	CTBP1	2	213.5	5.26E-02
MSTRG.17922.4	CTBP2	827	0	4.91E-08
MSTRG.3923.3	CTC1	33	0	2.43E-02
MSTRG.12875.1	CTCF	251.5	0	1.58E-05
CTDP1_g3110.t1	CTDP1	228.5	0	4.47E-05
MSTRG.3331.3	CTDP1	69	0	1.18E-03
MSTRG.15439.2	CTDSP1	361	0	1.08E-05
CTDS1_g16116.t1	CTDSP1	35.5	0	1.54E-02
CTDS2_g4766.t1	CTDSP2	50.5	0	5.79E-03
MSTRG.12215.3	CTDSPL2	795.5	0	5.77E-08
CGL_g7208.t1	CTH	272	0	1.60E-05
CTHR1_g8988.t1	CTHRC1	335	0	3.45E-06
CTIF_g2986.t1	CTIF	308.5	0	2.16E-06
MSTRG.7805.1	CTNNBIP1	341	53.5	1.57E-02
CATH_g12709.t1	CTSH	48	252.5	1.21E-02
MSTRG.6829.1	CTSS	49.5	0	4.46E-03
MSTRG.16849.1	CTXN1	30	0	5.37E-02
MSTRG.86.2	CUL1	461.5	2	4.56E-04
MSTRG.14623.4	CUL2	7	281	8.19E-03
CUL2_g15220.t1	CUL2	23.5	0	5.28E-02
CUL7_g2657.t1	CUL7	136.5	0	1.61E-04
MSTRG.2781.4	CUL9	173.5	0	4.58E-05
MSTRG.2781.2	CUL9	126.5	0	2.24E-02
CWC22_g20852.t1	CWC22	55.5	0	8.82E-03
MSTRG.18104.1	CWF19L1	77	0	8.04E-04

C19L2_g19526.t2	CWF19L2	146.5	0	4.36E-05
MSTRG.20677.1	CWH43	3	82.5	4.84E-04
MSTRG.13452.2	CYB561A3	48	0	3.21E-02
NEUFC_g3807.t1	CYB5D2	311.5	0	2.09E-05
NB5R2_g19990.t1	CYB5R2	180	0	6.22E-04
MSTRG.12762.3	CYLD	91.5	0	1.08E-03
MSTRG.1557.1	CYP1B1	32	0	2.32E-02
MSTRG.10043.2	CYP2D6	16616	1471.5	3.38E-02
CP7A1_g13440.t2	CYP7A1	14.5	321.5	2.56E-06
CYREN_g16662.t1	CYREN_g16662.t1	73.5	0	3.41E-02
DAAM1_g9622.t1	DAAM1	190.5	0	2.13E-05
MSTRG.9679.2	DAAM1	3.5	1529	3.15E-05
MSTRG.2731.2	DAAM2	697	0	8.82E-08
MSTRG.13463.1	DAGLA	3.5	32.5	4.23E-02
MSTRG.16901.1	DAZAP1	699	0	6.18E-08
MSTRG.16901.4	DAZAP1	99	0	2.96E-04
DAZP1_g17586.t1	DAZAP1	41.5	261	4.29E-03
DB108_g11154.t1	DB108_g11154.t1	36.5	0	1.73E-02
MSTRG.12010.4	DCAF11	102	0	1.09E-02
DCA15_g17250.t1	DCAF15	59.5	0	2.16E-03
MSTRG.4569.2	DCAF7	141	0	8.30E-04
DCBD2_g3533.t2	DCBLD2	53	0	5.22E-03
PCD16_g19974.t1	DCHS1	188	0	2.17E-05
MSTRG.5429.2	DCP1B	69	0	7.85E-03
MSTRG.18637.3	DCPS	173	0	2.87E-05
DCSTP_g8996.t1	DCSTAMP	168	0	1.76E-03
DCTN6_g11252.t1	DCTN6	35	0	2.45E-02
MSTRG.755.2	DCUN1D2	618	0	1.93E-07
MSTRG.755.4	DCUN1D2	260	0	4.47E-06
DCNL2_g776.t1	DCUN1D2	128.5	0	3.71E-04
MSTRG.755.5	DCUN1D2	143.5	0	1.03E-03
MSTRG.755.9	DCUN1D2	429.5	6.5	1.13E-02
MSTRG.19560.1	DCUN1D4	86.5	0	4.59E-04
MSTRG.18840.3	DCUN1D5	150	0	9.95E-05
MSTRG.13392.3	DDB2	272	0	8.70E-05
MSTRG.9730.6	DDHD1	229.5	0	1.73E-05
MSTRG.9730.7	DDHD1	0	204.5	2.54E-05
MSTRG.18969.2	DDIAS	38.5	0	2.58E-02
DDIT3_g4786.t1	DDIT3	468	0	6.61E-07

MSTRG.4945.1	DDIT3	349	47.5	7.88E-03
MSTRG.18372.1	DDIT4	2183.5	301	1.57E-03
MSTRG.19841.1	DDIT4L	338.5	57.5	9.36E-03
OST48_g7854.t1	DDOST	54	0	1.40E-02
MSTRG.5416.2	DDX11	185.5	0	1.66E-03
DDX17_g9906.t1	DDX17	103	0	5.82E-04
DDX18_g21069.t3	DDX18	1341.5	58.5	3.32E-05
DDX20_g6978.t1	DDX20	980	0	1.61E-08
DDX21_g18952.t1	DDX21	3	69	3.99E-02
MSTRG.5111.1	DDX23	577.5	0	2.08E-07
DDX24_g9369.t2	DDX24	57.5	0	1.55E-02
DDX28_g12994.t1	DDX28	221.5	0	8.93E-06
MSTRG.5782.2	DDX49	0	211.5	1.22E-05
MSTRG.18330.3	DDX50	193.5	0	4.99E-04
GCP6_g19423.t1	DDX6	73	0	1.51E-03
MSTRG.10841.2	DECR2	101.5	0	2.22E-04
MSTRG.14156.2	DEDD2	99.5	0	4.31E-04
MSTRG.13129.2	DEF8	300.5	0	5.14E-03
MSTRG.13129.5	DEF8	51.5	0	2.48E-02
CRIS1_g16944.t1	DELE1	40.5	0	1.24E-02
DEN1C_g17735.t1	DEN1C_g17735.t1	31.5	0	3.50E-02
MSTRG.17966.1	DENND10	131	0	3.77E-02
MSTRG.12407.1	DENND4A	529.5	0	1.12E-06
DEP1A_g7214.t1	DEPDC1	74	0	2.47E-03
MSTRG.5706.1	DEPDC1B	171	0	2.22E-05
MSTRG.14891.4	DEPDC5	865.5	0	2.52E-08
MSTRG.4011.1	DERL2	885	201	5.05E-02
DESI1_g9957.t1	DESI1	46	0	8.12E-03
DFFA_g1455.t1	DFFA	75	0	2.57E-03
DGKE_g4086.t1	DGKE	189.5	4	4.83E-02
MSTRG.13681.2	DHCR7	339.5	0	1.14E-03
DHR13_g3922.t1	DHRS13	64.5	0	4.16E-03
DHRS3_g7765.t1	DHRS3	110.5	0	2.61E-04
DHRS7_g9612.t1	DHRS7	114	0	1.58E-03
MSTRG.5685.1	DHX29	133	926.5	4.68E-04
DHX32_g18564.t1	DHX32	28	0	3.27E-02
DHX36_g17913.t1	DHX36	74	0	2.41E-03
MSTRG.12941.1	DHX38	1460	0	3.01E-09
MSTRG.12941.2	DHX38	2	525	4.20E-05

MSTRG.17754.2	DHX58	194.5	0	7.50E-05
PCBP4_g18372.t2	DHX58	228.5	0	3.56E-04
KAT2A_g4304.t1	DHX58	50.5	0	4.34E-03
DIAP1_g16938.t2	DIAPH1	1693	0	1.71E-09
MSTRG.16371.3	DIAPH1	116	3.5	3.57E-02
MSTRG.969.2	DIAPH3	549.5	0	3.74E-07
MSTRG.8850.5	DIDO1	136	0	6.40E-05
MSTRG.11430.2	DIPK1B	0	186	2.88E-05
MSTRG.17382.2	DIPK2A	161.5	0	2.84E-02
DIK2A_g17963.t1	DIPK2A	27.5	0	3.40E-02
MSTRG.15326.2	DIS3L2	338.5	0	1.29E-06
DISC1_g19072.t1	DISC1	424	0	4.91E-07
DIXC1_g19489.t1	DIXC1_g19489.t1	64	0	1.67E-03
DKK3_g20049.t1	DKK3	0	136.5	3.43E-05
MSTRG.13981.1	DKKL1	91.5	0	6.53E-04
ODP2_g19488.t1	DLAT	95	0	4.28E-04
RHG07_g11230.t1	DLC1	50.5	0	4.27E-03
DLDH_g654.t2	DLD	145.5	0	7.03E-05
MSTRG.3980.4	DLG4	176.5	0	2.75E-03
MSTRG.9478.2	DLST	543.5	0	7.97E-06
MSTRG.8351.1	DMAP1	53.5	0	2.37E-02
RANB3_g13538.t1	DMBT1	66.5	0	4.54E-03
DMBX1_g8247.t1	DMBX1	142	0	7.04E-04
MSTRG.20509.8	DMD	38	0	3.60E-02
DMD_g21266.t2	DMD_g21266.t2	3.5	52.5	5.20E-03
DMD_g21268.t1	DMD_g21268.t1	53.5	0	5.19E-03
MSTRG.14084.2	DMPK	40.5	0	1.08E-02
MSTRG.14084.3	DMPK	33.5	0	2.01E-02
MSTRG.537.5	DMTF1	6.5	106	2.48E-03
MSTRG.537.1	DMTF1	561	29.5	1.04E-02
KTU_g11967.t1	DNAAF2	8	369.5	2.23E-02
DAAF5_g10077.t1	DNAAF5	24.5	0	5.08E-02
DYH1_g18383.t1	DNAH1	88.5	0	5.62E-04
DYH2_g3705.t2	DNAH2	397	40.5	3.03E-03
DNJA4_g12701.t1	DNAJA4	147.5	0	2.74E-03
MSTRG.3517.1	DNAJB11	1386	281.5	1.88E-02
MSTRG.9.1	DNAJB6	95	0	3.63E-04
DNJC1_g15154.t1	DNAJC1	50.5	0	2.44E-02
DJC10_g20839.t1	DNAJC10	28	0	4.29E-02

DJC10_g7327.t1	DNAJC10	27	0	4.35E-02
MSTRG.17486.3	DNAJC13	866.5	0	4.35E-06
MSTRG.4998.2	DNAJC14	70.5	0	1.09E-03
DJC14_g4844.t1	DNAJC14	34.5	0	1.66E-02
DJC30_g10315.t1	DNAJC30	24.5	0	4.84E-02
MSTRG.13534.2	DNAJC4	71	0	1.66E-03
MSTRG.9981.1	DNAL4	44.5	0	8.02E-03
DNS2A_g17279.t1	DNASE2	50	0	1.00E-02
MSTRG.19129.6	DNHD1	441.5	0	1.03E-06
DNLZ_g11414.t1	DNLZ	592.5	0	1.27E-07
MSTRG.5190.4	DNM1L	112	0	6.60E-04
DOC2B_g3884.t1	DOC2B	35.5	0	1.53E-02
MSTRG.830.4	DOCK9	907.5	0	2.52E-07
DOCK9_g847.t1	DOCK9	63.5	0	9.32E-03
MSTRG.4050.3	DPH1	205	0	2.14E-05
MSTRG.7046.2	DPH5	108	0	1.67E-04
MSTRG.13620.3	DPP3	170.5	0	6.25E-04
MSTRG.12395.3	DPP8	64.5	0	2.54E-02
MSTRG.17003.3	DPP9	357.5	0	1.07E-06
MSTRG.321.2	DPY19L1	28	0	3.45E-02
DPYD_g7078.t1	DPYD	35	0	1.59E-02
DQX1_g1221.t1	DQX1	67.5	0	3.19E-03
DRD4_g14197.t1	DRD4	78.5	0	1.07E-03
DRG1_g15503.t1	DRG1	137	0	5.78E-05
MSTRG.3827.1	DRG2	531	0	1.93E-07
DRG2_g3591.t1	DRG2	54.5	0	3.05E-03
DCC1_g9046.t1	DSCC1	76.5	0	1.93E-03
DSE_g7395.t1	DSE	33	0	2.18E-02
DTX4_g13801.t1	DTX4	27	0	4.57E-02
MSTRG.4816.1	DUS1L	140	0	9.18E-05
MSTRG.4816.5	DUS1L	114	0	2.23E-04
MSTRG.4816.6	DUS1L	66	0	3.76E-03
DUS1L_g4677.t1	DUS1L	56	0	4.16E-03
MSTRG.12895.1	DUS2	45	0	7.61E-03
DUS11_g1245.t1	DUSP11	77.5	0	8.09E-04
DUS7_g18376.t2	DUSP7	609.5	0	3.18E-07
DUT_g4346.t1	DUT_g4346.t1	34.5	0	1.72E-02
DUT_g672.t1	DUT_g672.t1	95	0	3.63E-04
DYH7_g18426.t1	DYH7_g18426.t1	195.5	894	4.16E-02

MSTRG.20131.2	DYNC1I2	197	0	1.53E-05
DC1I2_g20915.t1	DYNC1I2	31.5	0	2.66E-02
DZIP1_g862.t1	DZIP1	26.5	0	4.73E-02
MSTRG.3694.1	DZIP3	460	0	2.90E-06
MSTRG.3694.5	DZIP3	250	0	2.09E-05
MSTRG.3694.4	DZIP3	142	813	2.67E-02
MSTRG.2384.1	E2F3	0	353.5	5.27E-07
MSTRG.2384.2	E2F3	289.5	0	2.56E-06
MSTRG.12871.3	E2F4	0	195.5	2.24E-05
MSTRG.1736.1	E2F6	76.5	0	1.63E-03
KLK14_g14511.t1	EARS2	72	0	1.07E-03
SYEM_g10496.t1	EARS2	41	0	1.02E-02
ECE1_g7861.t1	ECE1	27	0	3.63E-02
ECH1_g14871.t1	ECH1	120.5	0	1.47E-04
MSTRG.21173.2	ECHDC1	51	0	4.00E-03
CF201_g2092.t1	ECI2	370.5	0	1.36E-06
ATL4_g6842.t2	ECM1	936.5	0	1.98E-08
MSTRG.6843.2	ECM1	355.5	0	1.31E-04
MSTRG.6843.3	ECM1	371.5	0	3.16E-04
MSTRG.3432.3	ECT2	858.5	0	3.28E-08
MSTRG.3432.4	ECT2	299.5	0	1.56E-05
EDF1_g11390.t2	EDF1	43	0	7.65E-03
EED_g19622.t1	EED	32.5	0	2.01E-02
SELB_g17754.t1	EEFSEC	34	0	1.80E-02
MSTRG.14098.1	EEIG1	162.5	0	9.22E-05
MSTRG.7025.4	EEIG2	48	0	2.78E-02
MSTRG.21467.1	EEPD1	73	0	9.74E-04
MSTRG.14610.1	EFCC1	17.5	83.5	3.43E-02
FBLN3_g1362.t1	EFEMP1	59	0	2.27E-03
EFG_g7085.t1	EFG_g7085.t1	147	0	4.85E-05
EFHC2_g21311.t1	EFHC2	55	0	3.87E-03
EFHD1_g16004.t1	EFHD1	28	0	3.41E-02
MSTRG.12709.3	EFL1	190.5	0	3.19E-05
MSTRG.12709.4	EFL1	176	0	2.14E-04
MSTRG.20959.1	EFNA4	2743.5	441	4.69E-02
MSTRG.20427.1	EGFL6	727.5	69	1.27E-03
MSTRG.655.3	EGFR	1042	43.5	2.76E-06
EGR2_g18927.t1	EGR2	135.5	0	7.67E-05
MSTRG.2230.1	EGR3	112.5	826	2.09E-02

MSTRG.532.1	EHF	27.5	214	1.44E-02
EID2_g14844.t1	EID2	39	0	1.34E-02
MSTRG.1214.1	EIF2AK3	259	0	1.26E-03
MSTRG.19645.1	EIF2S2	104.5	11	1.56E-02
IF2H_g21413.t1	EIF2S3	56	0	2.77E-03
MSTRG.12218.1	EIF3J	44	0	7.01E-03
IF4A2_g3295.t1	EIF4A2	256	0	4.29E-06
IF4E2_g16005.t1	EIF4E2	178	0	1.85E-05
MSTRG.14885.3	EIF4ENIF1	0	333.5	3.94E-05
MSTRG.7932.2	EIF4G3	263	0	4.24E-06
MSTRG.7932.1	EIF4G3	307	1343	1.32E-02
IF5A2_g3199.t1	EIF5A2	202.5	17	2.66E-02
ELAV2_g6001.t1	ELAVL2	2556	0	3.08E-08
MSTRG.6031.1	ELAVL2	0.5	701.5	4.01E-02
ELF2_g1813.t1	ELF2	680.5	0	1.57E-05
ELF3_g15732.t1	ELF3	408	0	5.01E-05
MSTRG.1247.1	ELMOD3	36.5	0	1.38E-02
MSTRG.10744.1	ELOB	217	0	9.10E-06
MSTRG.10743.1	ELOB	52	0	1.10E-02
HPS3_g22164.t1	EMC2	3015.5	592	2.08E-02
EMC3_g17816.t1	EMC3	36.5	0	2.82E-02
EMC3_g7773.t1	EMC3	27	0	3.77E-02
MSTRG.21070.1	EMD	225.5	0	7.77E-06
MSTRG.3046.2	EMILIN2	1.5	199.5	3.58E-05
MSTRG.1526.3	EML4	536	4509	2.76E-04
MSTRG.1526.5	EML4	104	0	2.79E-03
EMAL6_g1374.t1	EML6	55	0	4.69E-03
EMP2_g22349.t1	EMP2_g22349.t1	472.5	0	3.74E-07
MSTRG.19004.3	EMSY	128.5	0	2.71E-03
EMX2_g18631.t1	EMX2	49	1	5.44E-02
ENOB_g3769.t1	ENO3	128.5	3.5	1.36E-02
ENO4_g18639.t1	ENO4	30.5	0	2.94E-02
ENOPH_g20585.t1	ENOPH1	51.5	0	1.91E-02
ENPP3_g7320.t1	ENPP3	213	0	1.56E-05
MSTRG.9505.3	ENTPD5	148	0	1.58E-04
ENTP6_g8341.t1	ENTPD6	157	4.5	2.68E-02
MSTRG.21268.2	EOLA1	73.5	364.5	1.26E-02
MSTRG.15018.3	EP400	0	409	1.26E-05
MSTRG.15018.4	EP400	148	1415.5	1.09E-02

MSTRG.21641.2	EP400	640	6	2.64E-02
MSTRG.15018.1	EP400	28	0	3.24E-02
EP400_g15684.t1	EP400_g15684.t1	100.5	0	1.76E-02
MSTRG.8655.2	EPB41L1	49.5	812.5	1.40E-03
MSTRG.11673.3	EPB41L4B	53.5	0	5.45E-02
MSTRG.20307.4	EPB41L5	168	0	3.02E-05
EPC1_g15209.t1	EPC1	219	0	1.16E-05
MSTRG.14609.3	EPC1	1881	257.5	1.30E-03
EPCAM_g1398.t1	EPCAM	148	0	2.04E-04
MSTRG.17460.1	EPHB1	0	90.5	4.01E-04
EPHB3_g3273.t1	EPHB3	2878.5	641.5	5.19E-02
EPN1_g14373.t1	EPN1	182.5	0	4.24E-05
MSTRG.9173.1	EPPK1	70	0	1.87E-03
ERAL1_g3924.t1	ERAL1	64.5	0	2.11E-03
RASE_g21345.t1	ERAS	79	8.5	2.86E-02
MSTRG.15476.4	ERBB4	155	0	7.27E-03
MSTRG.5733.2	ERBIN	4678.5	837	4.39E-02
ERCC5_g827.t1	ERCC5	71	0	1.45E-03
MSTRG.9458.2	ERG28	33	0	1.93E-02
ERGI2_g5195.t1	ERGIC2	30	0	2.61E-02
ERI1_g11242.t1	ERI1	40.5	0	9.81E-03
MSTRG.14174.2	ERICH4	509	1.5	3.10E-07
MSTRG.18107.2	ERLIN1	221.5	0	1.80E-05
MSTRG.11265.2	ERLIN2	562.5	83	2.68E-03
PAN1_g1995.t1	ESCO2	88.5	0	5.29E-03
MSTRG.1017.2	ESD	5.5	653	1.81E-02
MSTRG.5043.5	ESPL1	162	0	5.73E-04
ESR2_g9589.t2	ESR2	24	0	4.99E-02
ERR1_g13977.t1	ESRRA	71.5	0	1.93E-03
MSTRG.15114.1	ESRRG	6.5	73.5	1.31E-02
ETFD_g1905.t1	ETFDH	30.5	0	4.21E-02
MSTRG.6370.1	ETNK2	29.5	195.5	1.17E-03
MSTRG.13996.5	ETV2	0	1810	3.41E-06
MSTRG.6709.2	ETV3	125	0	2.63E-04
EVI5L_g17524.t1	EVI5L	32	0	3.02E-02
MSTRG.9578.5	EXD2	0	201	2.61E-05
MSTRG.5458.1	EXOC3	717	0	8.71E-08
MSTRG.12870.2	EXOC3L1	29.5	0	3.14E-02
MSTRG.12870.1	EXOC3L1	10.5	441.5	5.37E-02

MSTRG.18189.6	EXOC6	38.5	0	3.17E-02
MSTRG.1332.1	EXOC6B	279	2	1.23E-03
MSTRG.17589.3	EXOG	268.5	0	1.23E-02
EXOS5_g14803.t2	EXOS5_g14803.t2	52	0	5.76E-03
EXT1_g9036.t1	EXT1	362.5	3774	2.94E-04
EXT2_g13535.t1	EXT2	50.5	0	4.78E-03
MSTRG.2172.2	EXTL3	542	0	1.81E-07
EYA1_g13388.t1	EYA1	49.5	0	5.14E-03
MSTRG.4475.2	EZH1	14.5	375	5.66E-07
PAR4_g5843.t2	F2RL3	54.5	0	8.29E-03
MSTRG.6438.1	F5	35.5	0	2.23E-02
FA8_g21923.t1	F8	36	277	6.99E-03
FA76A_g7958.t1	FA76A_g7958.t1	25	345.5	3.60E-02
FAP20_g7642.t1	FAAP20	29.5	0	2.83E-02
FADS3_g13898.t1	FADS3	56	0	1.08E-02
FAHD1_g10744.t1	FAHD1	102	0	2.31E-04
MSTRG.17439.5	FAIM	128.5	0	1.11E-04
MSTRG.14503.4	FAM107B	402	0	6.97E-06
MSTRG.10089.4	FAM118A	523.5	0	6.76E-05
MSTRG.10089.3	FAM118A	122.5	0	9.77E-05
MSTRG.3500.1	FAM131A	98.5	463	1.41E-02
MSTRG.19786.6	FAM13A	213	0	9.39E-06
MSTRG.19786.4	FAM13A	210.5	0	1.10E-05
MSTRG.19786.2	FAM13A	559.5	4014	8.92E-05
FA13A_g22026.t1	FAM13A	126	0	1.79E-03
MSTRG.19786.7	FAM13A	2166.5	68.5	1.33E-02
MSTRG.16272.6	FAM13B	639	0	1.17E-07
MSTRG.16272.5	FAM13B	344	0	1.15E-05
MSTRG.18380.2	FAM149B1	265	0	3.84E-06
FA156_g21393.t1	FAM156A	8.5	681.5	9.09E-03
MSTRG.1408.1	FAM161A	37	0	1.44E-02
F161B_g9500.t1	FAM161B	35	0	1.58E-02
MSTRG.19043.1	FAM168A	1403.5	0	6.17E-09
F1712_g4375.t1	FAM171A2	30	0	2.64E-02
F200B_g20302.t1	FAM200B	58.5	0	2.39E-03
MAGI3_g10070.t1	FAM20C	27	0	3.63E-02
F217B_g8825.t1	FAM217B	555.5	0	1.03E-04
MSTRG.5964.2	FAM219A	71.5	0	1.14E-03
MSTRG.12470.2	FAM219B	105.5	0	1.87E-04

MSTRG.14215.1	FAM227A	2276.5	7.5	4.01E-03
MSTRG.1693.2	FAM228B	27.5	0	3.77E-02
FAM3D_g18441.t1	FAM3D	185	0	7.41E-04
FA83C_g8594.t2	FAM83C	24.5	0	5.41E-02
FA83D_g8645.t1	FAM83D	64.5	0	4.71E-03
MSTRG.1577.2	FAM98A	34.5	0	2.83E-02
VRK2_g1358.t1	FANCL	894.5	14124.5	1.90E-05
MSTRG.836.2	FARP1	423	0	4.99E-07
FARP1_g851.t1	FARP1	26	0	4.35E-02
SYFB_g16066.t1	FARSB	241	0	2.41E-05
FASTK_g50.t2	FASTK_g50.t2	79.5	0	6.75E-04
FAKD1_g20936.t2	FASTKD1	30	0	2.71E-02
FAKD3_g5515.t2	FASTKD3	118.5	0	8.51E-04
MSTRG.11189.3	FAT1	439	0	9.38E-06
FATE1_g22341.t1	FATE1_g22341.t1	51.5	0	1.40E-02
MSTRG.10090.1	FBLN1	32	0	2.32E-02
MSTRG.10473.2	FBRS	38	0	1.68E-02
FBX25_g11114.t1	FBX25_g11114.t1	82.5	0	7.68E-04
MSTRG.21027.5	FBXL17	2890	0	3.73E-10
MSTRG.21027.4	FBXL17	15	308	1.65E-06
FBXL4_g7482.t1	FBXL4	386.5	4258	9.85E-07
MSTRG.14746.3	FBXO21	310.5	0	4.38E-06
MSTRG.12499.3	FBXO22	450	0	3.86E-07
FBX34_g9652.t1	FBXO34	1153.5	84	4.89E-04
MSTRG.16387.2	FBXO38	309	0	2.33E-06
MSTRG.16387.1	FBXO38	256.5	0	5.07E-06
FBSP1_g3353.t1	FBXO45	46	1	2.55E-02
FBX6_g7749.t1	FBXO6	447	0	1.40E-04
FBX7_g9840.t1	FBXO7	65.5	0	4.39E-02
FBXW2_g11686.t1	FBXW2	267	0	4.21E-06
MSTRG.13978.2	FCGRT	689	0	3.67E-06
MSTRG.13978.3	FCGRT	0	554.5	9.88E-06
MSTRG.6742.2	FDPS	299.5	0	4.95E-06
HEMH_g3030.t1	FECH	48.5	0	6.29E-03
MSTRG.20944.2	FER	59	805	7.53E-07
MSTRG.20944.1	FER	136	0	6.33E-04
MSTRG.15778.2	FER1L5	46.5	0	5.94E-03
FER3L_g478.t1	FERD3L	24	0	5.48E-02
FGD5_g17848.t1	FGD5	438.5	0	8.68E-07

IDUA_g20183.t2	FGFRL1	73.5	0	9.82E-04
MSTRG.19115.3	FHIP1B	0	217.5	2.35E-05
MSTRG.17830.1	FHIT	55	0	4.25E-03
MSTRG.20994.1	FHL1	146	1345.5	2.30E-03
MSTRG.15838.2	FHL2	430	0.5	1.25E-06
MSTRG.14812.2	FICD	535.5	0	2.65E-07
MSTRG.14812.1	FICD	775	98	4.74E-02
MSTRG.20174.2	FIGN	0	188	2.52E-05
MSTRG.20174.1	FIGN	420.5	1770.5	5.46E-03
MSTRG.683.2	FIGNL1	187	0	1.59E-05
MSTRG.683.3	FIGNL1	150	0	5.43E-05
FJX1_g13513.t1	FJX1	44.5	0	9.07E-03
MSTRG.2698.1	FKBP5	1519	0	2.69E-09
MSTRG.2698.2	FKBP5	163.5	1467	5.16E-02
FKRP_g14668.t1	FKRP	71	0	1.10E-02
MSTRG.11697.3	FKTN	74.5	0	1.79E-02
MSTRG.3811.1	FLCN	523.5	0	7.84E-07
MYH16_g6794.t1	FLG	30	0	2.63E-02
FMN1_g12312.t1	FMN1	755	0	4.41E-08
FMN1_g12311.t1	FMN1	217	0	9.59E-06
FMNL1_g4397.t1	FMNL1	144	0	1.21E-03
FMNL3_g5054.t1	FMNL3	37.5	0	1.26E-02
FBP1L_g22076.t1	FNBP1L	24	0	5.02E-02
MSTRG.13408.1	FNBP4	589.5	0	1.75E-07
FNDC1_g16280.t1	FNDC1	58.5	0	3.42E-03
MSTRG.1629.1	FNDC4	643.5	0	9.18E-08
FNDC4_g1512.t1	FNDC4	236.5	0	3.41E-05
FNIP2_g1907.t1	FNIP2	25.5	0	4.69E-02
MSTRG.143.1	FOCAD	142	0	1.71E-04
FOLR2_g19723.t1	FOLR2	116	0	2.57E-03
MSTRG.14091.2	FOSB	1342	12210.5	8.24E-06
MSTRG.14091.1	FOSB	4399.5	32773.5	1.43E-04
FOSB_g14709.t1	FOSB	69.5	0	1.36E-03
FOSL1_g14041.t1	FOSL1	56.5	0	3.13E-03
FOXF1_g13228.t1	FOXF1	349	0	8.89E-05
FOXJ3_g8329.t1	FOXJ3	145.5	0	3.17E-04
MSTRG.10195.1	FOXK1	40.5	0	1.34E-02
FOXL2_g18000.t1	FOXL2	172.5	0	1.32E-04
MSTRG.17436.1	FOXL2	92.5	0	1.07E-03

MSTRG.5411.2	FOXM1	360.5	0	1.26E-06
MSTRG.5411.3	FOXM1	282.5	0	2.85E-06
FOXO1_g879.t1	FOXO1	169.5	0	5.87E-05
FOXQ1_g2065.t1	FOXQ1	191.5	0	1.65E-05
FPG_g1490.t1	FPG_g1490.t1	307	7.5	3.13E-02
FRG1_g11209.t1	FRG1	147	30	5.19E-02
MSTRG.14505.2	FRMD4A	1429.5	0	1.63E-08
MSTRG.7060.3	FRRS1	1294	6.5	3.10E-04
MSTRG.4855.2	FRS2	435.5	0	4.98E-07
MSTRG.19568.2	FRYL	859	0	7.41E-07
MSTRG.19568.4	FRYL	112	0	9.34E-04
FSIP2_g21750.t1	FSIP2	131.5	0	2.49E-03
FSIP2_g21751.t1	FSIP2	60.5	339	1.06E-02
FSTL1_g3419.t1	FSTL1_g3419.t1	32.5	0	2.01E-02
FSTL3_g17555.t1	FSTL3	85	0	7.31E-04
MSTRG.10870.2	FTCD	92.5	0	1.57E-02
FRIH_g21285.t1	FTH1	317	0	2.46E-06
FRIH_g13901.t1	FTH1	205	0	3.56E-05
FTO_g12930.t1	FTO	183.5	0	1.72E-05
MSTRG.20585.2	FTSJ1	169.5	0	4.41E-05
TRM7_g21337.t1	FTSJ1	79.5	0	2.87E-03
FUND1_g22178.t1	FUNDC1	44.5	0	7.18E-03
MSTRG.17875.1	FUOM	31.5	0	2.31E-02
MSTRG.14002.1	FUT1	144	0	3.34E-04
FUT1_g21157.t1	FUT1_g21157.t1	720.5	0	6.17E-08
MSTRG.9607.1	FUT8	247	3.5	2.06E-03
FV1_g13192.t1	FV1_g13192.t1	32.5	0	3.15E-02
FV1_g13409.t1	FV1_g13409.t1	101.5	0	2.30E-04
FV1_g1626.t1	FV1_g1626.t1	122.5	0	7.93E-04
FV1_g17111.t1	FV1_g17111.t1	57	0	2.56E-03
FV1_g20348.t1	FV1_g20348.t1	83.5	0	5.56E-04
FV1_g22310.t1	FV1_g22310.t1	32	0	3.41E-02
FV1_g5999.t1	FV1_g5999.t1	192	0	7.07E-03
FV1_g8938.t1	FV1_g8938.t1	66.5	0	2.76E-03
FYB1_g5602.t1	FYB1	37.5	0	1.57E-02
MSTRG.8993.2	FZD6	231.5	0	1.51E-03
G3BP2_g20540.t1	G3BP2	5873.5	1259.5	5.16E-02
G6PI_g14914.t1	G6PI_g14914.t1	42	0	1.10E-02
MSTRG.4756.6	GAA	416	0	2.72E-06

MSTRG.4756.4	GAA	222	0	1.28E-05
GAB1_g1834.t1	GAB1	30	0	2.77E-02
MSTRG.21419.2	GAB3	12	304.5	1.72E-05
GABR1_g2388.t1	GABBR1	220.5	0	2.46E-05
HERP2_g20640.t1	GABRB3	33.5	0	2.17E-02
GA45G_g5930.t1	GADD45G	74.5	0	8.63E-04
GADL1_g18108.t1	GADL1	553.5	0	1.02E-05
GALC_g9422.t2	GALC	80.5	0	6.17E-03
MSTRG.1545.1	GALM	118.5	0	3.43E-03
GLT13_g20995.t1	GALNT13	1149	6	1.93E-03
MSTRG.9576.1	GALNT16	3805	0	1.13E-10
MSTRG.8258.4	GALNT7	189.5	0	4.91E-05
CO7_g302.t1	GALNT7	91.5	0	5.30E-04
PRP4B_g13473.t1	GALNT7	30.5	225	4.80E-03
MSTRG.5956.2	GALT	1.5	154	5.49E-06
MSTRG.5956.1	GALT	128.5	0	7.86E-05
MSTRG.13492.1	GANAB	0	3301.5	1.26E-05
MSTRG.11576.2	GAPVD1	829.5	0	5.74E-06
GARE1_g2925.t1	GAREM1	144	0	1.98E-04
MSTRG.6057.1	GARIN5B	6	68	8.36E-03
GARL3_g11564.t1	GARNL3	188	0	9.83E-05
GAS6_g770.t1	GAS6	33	0	2.00E-02
GAK1B_g1899.t1	GASK1B	31.5	0	3.49E-02
MSTRG.3024.5	GATA6	34	0	2.40E-02
MSTRG.5767.2	GATAD2A	686	0	3.10E-07
P66A_g5759.t1	GATAD2A	27	0	4.35E-02
GALD1_g14202.t1	GATD1	360	0	1.59E-04
MSTRG.11077.1	GBE1	144.5	0	4.50E-05
MSTRG.18075.2	GBF1	3207	0	1.00E-10
GBP5_g7130.t1	GBP5	40.5	0	2.81E-02
MSTRG.20176.2	GCA	50	0	5.92E-03
GCC2_g16488.t1	GCC2	222.5	0	2.32E-03
MSTRG.1276.2	GCFC2	33	0	1.94E-02
MSTRG.6919.1	GDAP2	396.5	0	2.10E-06
GDF7_g1581.t1	GDF7	162.5	18.5	3.77E-03
GEMI6_g1447.t1	GEMIN6	2	47	2.04E-03
MSTRG.1550.1	GEMIN6	37.5	0	1.34E-02
MSTRG.5545.1	GEN1	0	32	1.17E-02
GFRA3_g16859.t1	GFRA3	33	0	4.73E-02

GGA1_g9883.t1	GGA1	64	0	7.33E-03
GGA2_g10497.t1	GGA2	106.5	0	1.86E-04
MSTRG.8631.2	GGT7	97	0	3.87E-03
GHC2_g5452.t1	GHC2_g5452.t1	158.5	0	2.43E-05
MSTRG.5632.3	GHR	15.5	579	3.12E-02
MSTRG.10312.2	GIGYF1	0	603	5.96E-07
MSTRG.10312.3	GIGYF1	194.5	0	1.38E-05
MSTRG.10312.1	GIGYF1	1607.5	10.5	2.16E-02
GGYF1_g10237.t1	GIGYF1	0	39	4.04E-02
MSTRG.15324.4	GIGYF2	1164.5	0	9.54E-09
GINM1_g16190.t1	GINM1	37.5	0	1.34E-02
GIP_g4148.t1	GIP	27	0	4.52E-02
GIT1_g3910.t1	GIT1	26	0	4.83E-02
MSTRG.8184.1	GJA9	25.5	0	4.28E-02
CXB7_g7529.t1	GJB7	33.5	0	1.87E-02
GLPK2_g20573.t1	GK2	810.5	0	7.33E-08
MSTRG.20820.2	GLA	30.5	453	1.99E-02
GLB1L_g16090.t1	GLB1L	314.5	0	5.84E-04
MSTRG.446.2	GLCCI1	278.5	1	1.15E-03
MSTRG.446.3	GLCCI1	110.5	0	2.49E-03
MSTRG.12437.2	GLCE	14.5	1252	3.46E-13
MSTRG.12437.3	GLCE	860.5	0	2.69E-08
MSTRG.12437.1	GLCE	677	0	7.53E-08
GCSP_g6084.t1	GLDC	49.5	0	9.70E-03
GSLG1_g13140.t1	GLG1	65.5	0	2.61E-03
GLIS3_g6108.t1	GLIS3	58	0	2.45E-03
TCPG_g6683.t2	GLMP	1477.5	296.5	3.38E-02
GLOD4_g3893.t1	GLOD4	14	98	1.86E-02
MSTRG.17775.3	GLT8D1	46.5	0	1.26E-02
MSTRG.17775.2	GLT8D1	30	0	2.71E-02
GL8D2_g9810.t1	GLT8D2	116	0	3.71E-04
GLYG2_g21957.t2	GLYG2_g21957.t2	29	0	3.15E-02
GLYR1_g10638.t1	GLYR1	432.5	0	1.98E-06
MSTRG.10690.4	GLYR1	38.5	0	1.14E-02
MSTRG.8066.2	GMEB1	45	0	1.93E-02
MSTRG.8860.2	GMEB2	4.5	326.5	3.12E-07
MSTRG.8860.3	GMEB2	467.5	0	8.96E-06
GMIP_g5752.t1	GMIP	44.5	0	6.70E-03
GEMC1_g3313.t1	GMNC	25	0	5.04E-02

MSTRG.2407.2	GMNN	37	0	1.38E-02
GMPR1_g2152.t1	GMPR	294	0	5.23E-06
GNA13_g4471.t1	GNA13	54	0	2.62E-02
GNA15_g17644.t1	GNA15	40	0	3.22E-02
GNAQ_g6167.t1	GNAQ	362	0	1.00E-06
GBB1_g7635.t1	GNB1	74.5	0	1.70E-02
GBB2_g10236.t1	GNB2	149	0	4.04E-05
GNB5_g12482.t1	GNB5	38	0	1.59E-02
GNDS_g22192.t2	GNDS_g22192.t2	230	0	5.36E-05
GNDS_g5461.t1	GNDS_g5461.t1	47.5	0	6.11E-03
MSTRG.11667.2	GNG10	174.5	0	3.78E-05
GBG10_g11745.t1	GNG10	62.5	0	2.76E-03
MSTRG.20625.2	GNL3	266	0	2.05E-05
GNL3_g18393.t1	GNL3	110	907.5	1.40E-02
MSTRG.16378.2	GNPDA1	213	0	9.98E-06
MSTRG.19536.2	GNPDA2	69.5	0	1.36E-03
GNPTG_g10766.t1	GNPTG	38	0	1.99E-02
MSTRG.11538.5	GOLGA2	752.5	0	6.27E-08
MSTRG.11538.6	GOLGA2	356.5	3	8.43E-03
MSTRG.11309.4	GOLGA7	102.5	3.5	1.76E-03
GOLI4_g3180.t1	GOLIM4	345.5	0	1.46E-05
MSTRG.6298.2	GOLM1	50	1	4.62E-02
GOLP3_g5559.t1	GOLPH3	134.5	0	1.68E-04
MSTRG.6737.1	GON4L	389	0	1.10E-05
AATC2_g11278.t1	GOT1L1	181	0	1.84E-04
GPAT4_g11313.t1	GPAT4	44.5	0	1.34E-02
GPBAR_g16123.t1	GPBAR1	70	0	1.26E-03
MSTRG.5697.2	GPBP1	443.5	0	8.08E-06
GPBP1_g5683.t1	GPBP1_g5683.t1	76.5	1835	5.22E-05
GPC1_g15941.t1	GPC1	57	0	2.97E-03
GPC4_g21769.t1	GPC4	57	0	3.30E-03
MSTRG.8502.1	GPCPD1	174.5	0	5.91E-05
MSTRG.5087.3	GPD1	196	0	1.35E-04
GPN2_g7940.t1	GPN2	27	0	4.04E-02
GPN3_g15293.t1	GPN3	33.5	0	1.91E-02
GP153_g7690.t1	GPR153	380	0	8.96E-07
GP155_g20896.t2	GPR155	75	460.5	2.18E-03
MSTRG.14551.1	GPR158	516.5	2073.5	2.68E-02
GP176_g12334.t1	GPR176	279.5	0	2.92E-06

GPR19_g5277.t2	GPR19	327	0	9.00E-06
GPR39_g21061.t1	GPR39	29.5	0	3.19E-02
GPR85_g347.t1	GPR85_g347.t1	231	0	8.22E-05
GPHR_g6893.t1	GPR89A	16.5	141	1.34E-02
GPC6A_g7380.t1	GPRC6A	132.5	0	1.46E-02
GPX8_g5668.t1	GPX8	33	0	3.03E-02
MSTRG.18663.4	GRAMD1B	6.5	716	3.07E-02
MSTRG.18663.3	GRAMD1B	32.5	344.5	4.59E-02
GRAP_g3604.t1	GRAP2	48.5	0	4.82E-03
MSTRG.20171.3	GRB14	1549.5	0	2.88E-09
MSTRG.20171.2	GRB14	147.5	1556.5	2.36E-02
GRB2_g4539.t1	GRB2	57	0	5.92E-03
MSTRG.3035.3	GREB1L	0	628.5	9.03E-06
MSTRG.7502.1	GRIK2	392	0	8.12E-07
MSTRG.14153.4	GRIK5	578.5	0	3.33E-07
MSTRG.4658.2	GRIN2C	1673	0	2.99E-06
MSTRG.16542.4	GRK6	117	0	1.22E-03
GRK6_g17149.t1	GRK6	35	0	1.79E-02
GRM3_g582.t1	GRM3	2.5	105.5	3.87E-05
GRPE1_g18415.t1	GRPEL1	125	0	1.01E-04
GRWD1_g14629.t1	GRWD1	25.5	0	5.01E-02
GSDMA_g9089.t1	GSDMA_g9089.t1	27	0	3.57E-02
MSTRG.13072.3	GSE1	0	143.5	3.94E-05
MSTRG.2840.1	GSTA1	86.5	1425	3.53E-05
MSTRG.2843.1	GSTA1	5418	58178	5.01E-03
MSTRG.6997.3	GSTM1	5.5	121.5	1.79E-03
GSTM3_g7012.t1	GSTM3	49	0	2.41E-02
MSTRG.6997.10	GSTM4	685	1.5	1.03E-08
GSTO1_g18694.t1	GSTO1	88.5	0	8.54E-04
GSTT3_g15546.t2	GSTT1	49	0	4.99E-03
GTDC1_g21028.t1	GTDC1	44.5	0	7.28E-03
STON1_g1390.t1	GTF2A1L	33	0	2.78E-02
TRIO_g12529.t1	GTF2A2	109.5	0	2.21E-04
T2AG_g7716.t1	GTF2A2	101.5	0	2.30E-04
MSTRG.15913.1	GTF2H2	251	0	4.83E-06
DDR1_g2421.t2	GTF2H4	72.5	0	4.57E-03
TF3A_g1091.t1	GTF3A	77	0	9.44E-03
TF3C3_g20793.t1	GTF3C3	117	0	1.40E-04
GTPB1_g9912.t2	GTPBP1	193.5	0	1.94E-02

MSTRG.2798.3	GTPBP2	218.5	0	1.83E-05
MSTRG.5624.1	GTPBP2	162.5	15.5	3.03E-02
MSTRG.10104.1	GTSE1	159	0	3.07E-05
MSTRG.14908.4	GUCD1	164	0	1.70E-04
MSTRG.14908.3	GUCD1	174	0	2.43E-04
GUF1_g20393.t2	GUF1	70.5	0	1.13E-03
KGUA_g16508.t1	GUK1	94	0	3.01E-02
MSTRG.20043.3	GULP1	256.5	0	4.47E-06
GVIN1_g19976.t1	GVINP1	79.5	0	1.47E-03
GVIN1_g19977.t1	GVINP1	62	0	2.80E-03
EMSY_g19670.t2	GVQW3	65.5	0	5.31E-03
H1X_g17748.t1	H1-10	973	0	4.76E-06
H1T_g2218.t1	H1-6	86.5	0	9.74E-04
H2AB2_g21930.t1	H2AB2	24.5	0	4.73E-02
H2A1E_g2234.t1	H2AC4	46	0	8.86E-03
H2A1D_g2227.t1	H2AC7	210	0	9.98E-06
H2B2F_g6872.t1	H2BC18	327.5	0	3.42E-06
H2B2E_g6866.t1	H2BC21	98.5	0	4.27E-03
H31_g2233.t1	H3C1	267.5	0	2.41E-03
H31_g2210.t1	H3C1	40	0	1.50E-02
H31_g2261.t1	H3C1	48	0	2.78E-02
H4_g5262.t1	H4C1	81.5	0	7.12E-03
HABP4_g6228.t1	HABP4	243.5	0	1.62E-05
MSTRG.14522.2	HACD1	142	0	4.85E-05
HAP1_g4291.t1	HAP1	146.5	0	4.23E-05
HAUS6_g6048.t1	HAUS6	243	0	1.83E-03
HAUS7_g21875.t1	HAUS7	29.5	0	2.97E-02
HBP1_g646.t1	HBP1	25.5	0	5.32E-02
CCHL_g11835.t1	HCCS	27	0	4.01E-02
HPIP_g10687.t1	HCFC1R1	27.5	0	3.86E-02
HD_g7346.t1	HD_g7346.t1	2	82.5	1.04E-02
MSTRG.17126.1	HDAC11	268	0	3.61E-06
HDAC3_g16939.t1	HDAC3	354	0	1.24E-06
HDAC6_g819.t1	HDAC6_g819.t1	80.5	0	5.16E-03
HDDC2_g7354.t1	HDDC2	126	0	9.87E-05
MSTRG.16998.1	HDGFL2	236.5	0.5	2.25E-05
MSTRG.16998.3	HDGFL3	181.5	0	1.70E-05
MSTRG.15273.2	HDLBP	937.5	0	4.43E-08
MSTRG.11969.3	HEATR5A	843.5	0	2.62E-07

HTR5A_g12037.t1	HEATR5A	94	0	4.36E-04
MSTRG.11972.3	HECTD1	1323.5	0	4.74E-09
MSTRG.11972.4	HECTD1	2250	0	1.51E-07
MSTRG.11972.2	HECTD1	939.5	139	8.77E-03
MSTRG.11972.1	HECTD1	1375.5	5881.5	3.51E-02
HECW2_g20798.t1	HECW2	27.5	0	3.86E-02
HELB_g4737.t2	HELB	74.5	0	1.27E-03
MSTRG.19751.2	HELQ	46	0	6.16E-03
HELZ_g4461.t1	HELZ	53	1	4.87E-02
MSTRG.17739.2	HEMK1	208	0	1.51E-05
MSTRG.12375.2	HERC1	421	0	9.45E-06
MSTRG.18311.5	HERC4	470	0	3.44E-07
MSTRG.18311.3	HERC4	84	725.5	6.27E-04
MSTRG.18311.2	HERC4	79.5	0	6.67E-04
MSTRG.318.2	HERPUD2	167.5	0	2.26E-05
HEXD_g4688.t1	HEXD	52.5	0	3.80E-02
MSTRG.9194.1	HGH1	0.5	276	5.16E-06
HGS_g4653.t1	HGS	39	0	1.79E-02
MSTRG.11332.5	HGSNAT	385.5	0	1.05E-05
MSTRG.11332.2	HGSNAT	101	0	1.05E-03
HIPL2_g15824.t1	HHIPL2	85	0	4.99E-04
HIC1_g3863.t1	HIC1	45	0	9.42E-03
MSTRG.6943.3	HIPK1	25	2314.5	2.23E-02
MSTRG.13313.4	HIPK3	0.5	202.5	1.42E-04
HIPK3_g13489.t1	HIPK3	61	0	2.43E-03
MSTRG.14968.2	HIRA	191	0	1.99E-05
MSTRG.2342.2	HIVEP1	702	0	1.46E-07
MSTRG.2597.4	HLA-B	27.5	710	3.76E-04
MSTRG.2557.1	HLA-B	5.5	235	2.16E-02
MSTRG.2641.1	HLA-DQA2	76	0	9.72E-03
MSTRG.2642.1	HLA-DQA2	44.5	0	3.21E-02
MSTRG.2638.1	HLA-DRB1	55	0	6.24E-03
MSTRG.8578.1	HM13	305.5	0	2.08E-05
MSTRG.2170.3	HMBOX1	1129.5	0	9.16E-09
PKD1_g331.t1	HMBOX1	425.5	96	5.45E-02
HMCN2_g11492.t1	HMCN2	146	0	1.95E-02
MSTRG.16970.1	HMG20B	435	0	2.82E-06
MSTRG.7617.2	HMGN3	146.5	0	4.38E-05
HMGN3_g7564.t1	HMGN3	112.5	0	1.48E-04

MSTRG.9929.3	HMGXB4	486.5	0	1.21E-05
MSTRG.15072.1	HMMR	1	32	4.62E-02
MSTRG.10699.1	HMOX2	102	0	2.62E-04
MSTRG.1748.1	HMX3	10	55.5	4.48E-02
HNF4A_g8668.t2	HNF4A	187	0	1.98E-05
HNF4A_g8668.t1	HNF4A	62	0	1.92E-03
MSTRG.16560.2	HNRNPAB	74	1129	1.04E-02
ROAA_g17162.t1	HNRNPAB	32.5	0	2.02E-02
MSTRG.18555.3	HNRNPF	566.5	0	1.57E-07
MSTRG.18555.4	HNRNPF	350.5	1662	5.14E-03
MSTRG.16575.4	HNRNPH1	77	0	1.15E-03
HNRH3_g18943.t1	HNRNPH3	42.5	0	9.67E-03
MSTRG.1554.1	HNRNPLL	452.5	1455.5	4.77E-02
MSTRG.16834.4	HNRNPM	354	0	6.66E-03
MSTRG.15249.2	HNRNPU	538.5	0	2.72E-06
HNRL1_g14808.t1	HNRNPUL1	28.5	0	4.40E-02
MSTRG.13498.1	HNRNPUL2	639	0	8.93E-08
LAMB3_g13483.t1	HOATZ	147	0	5.77E-05
MSTRG.19618.2	HOPX	211.5	0	1.13E-05
MSTRG.19618.3	HOPX	75.5	0	1.81E-03
HXB1_g4165.t1	HOXB1	127.5	0	4.08E-04
HXD13_g20888.t2	HOXD13	36.5	0	1.54E-02
MSTRG.7921.3	HP1BP3	1988	0	9.23E-10
PGDH_g1956.t1	HPGD	207.5	0	1.95E-05
MSTRG.18125.3	HPS1	72.5	0	1.40E-03
MSTRG.18125.5	HPS1	63	0	1.76E-03
HPS5_g20097.t1	HPS5	362	0	1.56E-06
MSTRG.19223.4	HPS5	206.5	0	4.43E-05
HPS6_g18731.t1	HPS6	351.5	35.5	3.53E-03
H1BP3_g1582.t1	HS1BP3	45.5	0	7.68E-03
MSTRG.10530.1	HS3ST4	27	107.5	4.07E-02
H6ST3_g858.t1	HS6ST3	67	0	3.78E-02
HSC20_g15449.t2	HSCB	63.5	0	2.07E-03
DHI2_g13047.t1	HSD11B2	27	0	4.17E-02
DHB8_g2512.t1	HSD17B8	62.5	0	1.79E-03
HSFX3_g22086.t1	HSFX3	28	0	4.29E-02
HSP7E_g15117.t1	HSPA14	84.5	0	9.39E-04
HSP7C_g1432.t1	HSPA8	192	0	2.12E-05
HSP7C_g19376.t1	HSPA8	17.5	184.5	1.96E-04

MSTRG.7949.3	HSPG2	150868	0	2.45E-10
HTSF1_g21797.t1	HTATSF1	37.5	0	1.55E-02
5HT5A_g24.t1	HTR5A	654	0.5	1.56E-06
MSTRG.19.3	HTR5A	302	0	2.42E-06
HTRA2_g1219.t1	HTRA2	29.5	0	4.74E-02
MSTRG.19351.2	HTT	2231	111	6.28E-04
MSTRG.20633.1	HUWE1	211.5	3518.5	5.11E-04
HYCCI_g463.t1	HYCC1	57	0	2.65E-02
MSTRG.7595.3	IBTK	456.5	0	9.62E-07
ID1_g8537.t1	ID1	40.5	0	1.04E-02
MSTRG.19872.1	IDH1	934.5	68	1.08E-03
IDI2_g15040.t1	IDI2_g15040.t1	36.5	0	1.54E-02
IDS_g21840.t1	IDS	58.5	0	8.14E-03
IDUA_g20181.t1	IDUA	74.5	0	8.49E-04
MSTRG.21229.2	IDUA	73.5	0	9.16E-04
IEX1_g2420.t1	IER3	69	0	1.30E-03
MSTRG.5819.1	IFI30	51.5	0	4.67E-03
GILT_g5799.t1	IFI30	0.5	23.5	4.96E-02
IFI44_g7171.t1	IFI44	60	0	5.53E-03
IFIH1_g20966.t1	IFIH1	34	0	1.74E-02
IFNA2_g6014.t2	IFNA2	114	0	5.04E-04
MSTRG.4140.3	IFT20	1286	0	9.16E-09
MSTRG.4140.4	IFT20	295.5	0	1.42E-05
MSTRG.4140.2	IFT20	248	0	1.65E-05
FV1_g6317.t1	IFT46	434.5	0	4.99E-05
IFT56_g207.t1	IFT56	2970.5	0	5.47E-10
MSTRG.3354.6	IFT80	449	0	4.35E-06
MSTRG.3354.4	IFT80	675.5	3	1.44E-03
IFT80_g3131.t1	IFT80	26.5	0	4.51E-02
IFT81_g15289.t1	IFT81	59.5	0	2.15E-03
IGF1_g9800.t1	IGF1	192.5	0	1.00E-04
IGF1R_g12773.t1	IGF1R	48.5	0	6.70E-03
IBP5_g16130.t1	IGFBP5	0	618.5	7.46E-06
IBP6_g4979.t1	IGFBP6	99.5	0	2.83E-04
IBP7_g20458.t1	IGFBP7	128	0	2.38E-04
IKKE_g6287.t1	IKBKE	30.5	0	2.56E-02
NEMO_g22330.t1	IKBKG	58.5	0	2.78E-03
IKZF4_g4837.t1	IKZF4	29	0	2.88E-02
MSTRG.17936.2	IKZF5	88	0	5.66E-03

MSTRG.10964.2	IL10RB	39	0	1.14E-02
MSTRG.5436.1	IL17A	341.5	0	1.42E-06
EDEM1_g4642.t1	IL17RA	37.5	0	2.67E-02
MSTRG.17259.2	IL17RC	196	6.5	5.20E-02
I17RD_g18423.t1	IL17RD	305.5	0	2.28E-06
I18BP_g19728.t1	IL18BP	35.5	0	1.76E-02
I18RA_g16462.t1	IL1RL1	137.5	0	1.21E-04
IL22_g4729.t1	IL22	108.5	0	1.67E-04
IL2RB_g9873.t1	IL2RB	97.5	0	2.94E-03
IL32_g10683.t1	IL32_g10683.t1	29	0	2.91E-02
IL34_g13129.t1	IL34	51.5	0	4.02E-03
IL6_g464.t1	IL6_g464.t1	31.5	0	2.36E-02
MSTRG.5690.2	IL6ST	285.5	0	1.38E-05
MSTRG.16741.2	ILF3	3154	0	1.02E-10
MSTRG.16741.3	ILF3	392.5	0	8.99E-07
MSTRG.16741.1	ILF3	255	1276	1.62E-03
MSTRG.19126.2	ILK	18	193	2.74E-04
MIC60_g1163.t1	IMMT	287.5	0	1.14E-05
IMP3_g12676.t1	IMP3	83.5	0	1.04E-02
IMPA1_g13342.t1	IMPA1	95.5	0	9.82E-04
IMPCT_g2895.t1	IMPACT	276.5	0	6.23E-06
MSTRG.13476.2	INCENP	251.5	0	7.97E-06
MSTRG.13475.2	INCENP	226	0	4.58E-05
INCE_g13903.t1	INCENP	56.5	0	2.66E-03
MSTRG.9290.4	INF2	770	0	8.40E-08
MSTRG.766.2	ING1	54	0	6.16E-03
MSTRG.11159.1	ING2	462.5	53.5	3.03E-04
ING4_g5377.t1	ING4	105.5	0	1.84E-04
MSTRG.651.1	INHBA	4977	36553.5	1.23E-03
IN80D_g20725.t1	INO80D	28	0	3.20E-02
MSTRG.15788.6	INPP4A	2.5	124	3.27E-02
INP5K_g3879.t1	INPP5K	88.5	0	8.29E-03
MSTRG.20.3	INSIG1	309	0	2.08E-06
MSTRG.20299.1	INSIG2	381.5	0	3.87E-06
INT10_g9588.t1	INT10_g9588.t1	39.5	0	3.42E-02
MSTRG.1818.2	INTS12	244.5	0	1.23E-05
INT13_g5211.t1	INTS13	78.5	0	1.12E-03
MSTRG.21549.1	INTS2	43.5	0	7.32E-03
INT3_g6752.t2	INTS3	51.5	0	5.08E-03

MSTRG.1057.1	INTS6	29	0	3.82E-02
INTU_g1788.t1	INTU	337	0	1.72E-06
MSTRG.17694.3	IP6K2	80	0	8.48E-04
MSTRG.17694.2	IP6K2	1177.5	54	2.79E-02
MSTRG.15066.1	IPO9	806.5	0	4.71E-06
MSTRG.8103.3	IQCC	75.5	0	1.44E-03
MSTRG.11319.1	IQCK	182	0	1.88E-05
MSTRG.5814.1	IQCN	136.5	0	5.83E-05
IQEC1_g17780.t1	IQSEC1	4712.5	70094	8.09E-04
IRAK1_g21897.t1	IRAK1	26	0	4.34E-02
MSTRG.18510.2	IRF2BP2	0	1200	5.64E-06
MSTRG.9446.1	IRF2BPL	21.5	107.5	3.88E-02
MSTRG.18437.1	IRX3	0	58	1.12E-03
MSTRG.12780.1	IRX5	0	254.5	1.99E-05
GOLM1_g6209.t2	ISCA1	7757.5	1478.5	1.98E-02
IST1_g13112.t1	IST1	125.5	0	9.45E-05
MSTRG.4523.2	ITGA2B	28	0	3.41E-02
ITA3_g4131.t1	ITGA3	69.5	1	4.87E-02
ITA5_g4940.t2	ITGA5	79.5	0	7.20E-04
ITAE_g3812.t1	ITGAE	190	0	6.92E-05
ITB3_g4418.t1	ITGB3	131.5	0	1.52E-04
ITGBL_g835.t1	ITGBL1	17.5	85.5	5.14E-02
ITM2A_g21520.t1	ITM2A	31	0	2.37E-02
ITPI2_g20844.t1	ITPRID2	174.5	0	2.20E-05
NS1BP_g6446.t1	IVNS1ABP	196	0	2.00E-05
MSTRG.6551.3	IVNS1ABP	837.5	5044	1.86E-02
IWS1_g21116.t1	IWS1	228.5	0	3.06E-05
JADE1_g1798.t2	JADE1	46.5	0	6.60E-03
JADE1_g1798.t1	JADE1	31.5	0	2.58E-02
MSTRG.1940.2	JADE1	120.5	0	2.73E-02
MSTRG.5825.3	JAK3	108.5	0	7.98E-03
JAM2_g11045.t1	JAM2	31	0	2.66E-02
CQ100_g19222.t1	JAM3	230.5	0	9.68E-05
MSTRG.9462.1	JDP2	407	84.5	4.55E-02
JHY_g19378.t1	JHY	25	0	5.21E-02
MSTRG.18301.1	JMJD1C	504.5	4384	1.01E-03
MSTRG.15885.2	JMJD4	116.5	0	1.44E-04
JMJD4_g16500.t1	JMJD4	151.5	2	1.00E-02
MSTRG.15974.2	JMY	703	0	5.62E-06

JOS2_g14531.t1	JOSD2	485.5	0	1.14E-06
JERKY_g9143.t1	JRK	49.5	0	8.23E-03
K1C40_g10802.t1	K1C40_g10802.t1	64	0	3.27E-03
MSTRG.4552.2	KANSL1	81	653.5	6.53E-04
MSTRG.21627.5	KANSL2	85.5	0	8.88E-04
KAP3_g645.t1	KAP3_g645.t1	37	0	2.55E-02
KAT2B_g18078.t1	KAT2B	26	0	5.15E-02
KAT7_g4135.t1	KAT7	75.5	0	5.26E-03
MSTRG.1147.1	KATNAL1	112.5	0	1.04E-03
MOT14_g9252.t1	KATNAL1	143.5	0	1.98E-02
MSTRG.10527.2	KATNIP	118	0	3.68E-04
MSTRG.10527.7	KATNIP	104.5	0	2.78E-03
MSTRG.18090.1	KAZALD1	85.5	0	4.68E-04
MSTRG.7843.6	KAZN	4.5	118	2.14E-04
MSTRG.12795.1	KBTBD11	537	29	6.03E-03
MSTRG.13404.2	KBTBD4	102.5	0	5.69E-03
KCNG2_g3111.t1	KCNG2	554.5	0	2.34E-07
KCNH6_g4429.t1	KCNH6	31.5	0	4.30E-02
MSTRG.21259.1	KCNH8	2.5	36.5	2.94E-02
MSTRG.4879.1	KCNIP4	40	0	1.22E-02
MSTRG.18511.1	KCNK6	3.5	37	2.84E-02
KCMB3_g3220.t2	KCNMB3	57	0	3.31E-03
MSTRG.13688.2	KCNQ1	0	281	1.81E-05
KCP_g276.t1	KCP	25	0	4.46E-02
MSTRG.14382.2	KCTD15	223	0	2.13E-05
MSTRG.4659.3	KCTD2	453.5	0	6.78E-07
KCD20_g2572.t1	KCTD20	113.5	0	1.52E-04
KCD21_g19648.t1	KCTD21	223.5	0	3.29E-05
MSTRG.10742.1	KCTD5	519.5	15.5	1.53E-05
MSTRG.17826.1	KCTD6	113	0	5.35E-04
MSTRG.13635.3	KDM2A	186.5	656	5.14E-02
KDM5A_g5428.t1	KDM5A	71	0	7.98E-03
MSTRG.20636.2	KDM5C	0	1128.5	1.00E-05
KDM7A_g198.t2	KDM7A	180	25	2.18E-02
MSTRG.16745.2	KEAP1	313.5	0	1.16E-05
KEAP1_g17348.t1	KEAP1	16	187.5	8.96E-04
CENPH_g5732.t2	KGD4	26	0	4.01E-02
MSTRG.17032.5	KHSRP	7754.5	0	1.90E-12
MSTRG.17032.4	KHSRP	154	5013	1.26E-05

FUBP2_g17731.t1	KHSRP	179	0	2.93E-04
K0232_g20242.t1	KIAA0232	233.5	0	5.40E-05
K0513_g13215.t1	KIAA0513	39	0	3.80E-02
MSTRG.4013.2	KIAA0753	54.5	0	4.13E-03
MSTRG.10085.1	KIAA0930	42.5	0	9.67E-03
MSTRG.14543.10	KIAA1217	555.5	0	8.01E-07
MSTRG.14543.5	KIAA1217	622	0.5	9.71E-07
MSTRG.14543.11	KIAA1217	13.5	463	4.80E-06
MSTRG.14543.6	KIAA1217	102.5	0	2.18E-04
K1586_g2763.t1	KIAA1586	116	0	1.22E-04
K2013_g7757.t1	KIAA2013	94	0	1.06E-03
KDIS_g1652.t1	KIDINS220	310.5	0	1.98E-06
MSTRG.1762.4	KIDINS220	513.5	0.5	1.09E-03
MSTRG.1762.3	KIDINS220	1089.5	0	2.06E-03
KIF17_g7855.t1	KIF17	111.5	1322.5	1.87E-03
MSTRG.4531.1	KIF18B	203.5	0	1.19E-04
MSTRG.16274.2	KIF20A	250	0	1.50E-05
MSTRG.18213.1	KIF20B	973.5	53	6.74E-06
MSTRG.10490.1	KIF22	53.5	0	4.93E-03
KIF22_g10420.t1	KIF22	41	0	1.05E-02
KIF23_g12611.t1	KIF23	235	0	9.18E-06
MSTRG.38.1	KIF24	32.5	0	4.27E-02
KI26B_g15878.t1	KIF26B	16	784	1.04E-02
MSTRG.5719.2	KIF2A	565	0	7.46E-06
KIF3A_g16801.t1	KIF3A	66.5	0	1.62E-03
KIF3B_g8554.t1	KIF3B	41	0	1.14E-02
MSTRG.20704.2	KIF4A	295	0	2.92E-06
KIF9_g18257.t1	KIF9	481.5	0	6.64E-07
KBP_g18956.t1	KIFBP	399.5	0	2.77E-05
KIFC2_g9211.t1	KIFC2	24.5	0	4.77E-02
KISHA_g16625.t1	KISHA_g16625.t1	0	93.5	1.27E-04
KLC1_g9292.t1	KLC1	25	0	5.26E-02
MSTRG.13612.4	KLC2	78	0	9.17E-04
MSTRG.2775.2	KLC4	0.5	457.5	2.85E-06
MSTRG.2775.1	KLC4	783.5	98.5	1.46E-02
KLF11_g1640.t1	KLF11	50	1	1.00E-02
MSTRG.17081.2	KLF15	40.5	0	2.61E-02
MSTRG.19493.2	KLF3	202.5	0	2.00E-05
KLF7_g20712.t1	KLF7	32	0	3.02E-02

KLHL2_g1929.t1	KLHL2	190	0	2.04E-05
KLH25_g12795.t1	KLHL25	59	0	1.63E-02
KLH38_g9069.t1	KLHL38	83	0.5	4.46E-03
KLHL5_g20366.t1	KLHL5	327.5	0	1.51E-05
KLHL7_g462.t1	KLHL7	163.5	0	1.20E-03
KLHL8_g20612.t1	KLHL8	34	0	2.89E-02
KMT2A_g19431.t1	KMT2A	65.5	0	9.29E-03
KMT2B_g14953.t1	KMT2B	58	0	2.45E-03
MSTRG.36.2	KMT2C	2729	0	4.78E-10
MSTRG.5110.5	KMT2D	0	195.5	2.24E-05
MSTRG.5110.3	KMT2D	1900	111.5	2.14E-04
MSTRG.13660.2	KMT5B	487	0	7.63E-07
KNDC1_g18514.t1	KNDC1	49.5	0	4.46E-03
MSTRG.65.2	KRBA1	0	62	1.01E-03
MSTRG.1220.1	KRCC1	30.5	0	3.49E-02
K1C17_g4287.t1	KRT17	53	0	4.06E-03
MSTRG.9707.6	KTN1	210.5	0	1.93E-05
T3HPD_g9620.t1	L3HYPDH	70	0	1.20E-03
MSTRG.7342.3	L3MBTL3	206.5	0	2.09E-05
LMBL3_g7332.t1	L3MBTL3	362.5	0	2.21E-05
LACB2_g1701.t1	LACB2_g1701.t1	200.5	0	1.96E-03
MSTRG.1000.6	LACC1	46	0	7.77E-03
MSTRG.1000.3	LACC1	29.5	0	2.78E-02
LAD1_g15744.t1	LAD1	24	0	4.99E-02
MSTRG.21079.1	LAGE3	32	0	2.18E-02
MSTRG.3083.2	LAMA3	44	2020	1.88E-11
MSTRG.3083.5	LAMA3	341.5	0	1.27E-05
MSTRG.3083.4	LAMA3	1955.5	61.5	3.67E-03
LAMB4_g657.t1	LAMB4	99	0	3.03E-04
MSTRG.617.2	LAMB4	90	0	2.41E-03
MSTRG.617.6	LAMB4	34	0	2.12E-02
MSTRG.19905.2	LAMP2	1250	0	2.95E-04
MSTRG.7286.3	LAMP2	65.5	0	8.29E-03
MSTRG.9927.1	LARGE1	2430.5	0	3.01E-10
MSTRG.13373.5	LARGE2	0	262	1.94E-05
MSTRG.16428.2	LARP1	0	2643	2.09E-06
MSTRG.1937.2	LARP1B	84.5	0	1.96E-03
MSTRG.1186.1	LATS2	146.5	3.5	1.29E-02
LCK_g8016.t1	LCK	37.5	486	9.98E-06

MSTRG.1608.1	LCLAT1	34	0	1.88E-02
MSTRG.10545.1	LCMT1	82.5	6.5	7.46E-03
MSTRG.10537.1	LCMT1	19	192.5	3.13E-02
MSTRG.11410.3	LCN6	31	0	2.66E-02
MSTRG.1012.1	LCP1	136.5	0	1.13E-04
MSTRG.18078.1	LDB1	33	351	2.46E-03
LRAD3_g13515.t1	LDLRAD3	431	0	2.77E-04
MSTRG.21018.3	LDOC1	108	0	4.38E-04
MSTRG.4887.1	LEMD3	35	0	3.38E-02
LERL1_g11250.t1	LEPROTL1	574.5	28.5	3.81E-03
MSTRG.5075.1	LETMD1	381.5	5	4.01E-02
LG3BP_g4611.t1	LGALS3BP	32.5	0	2.03E-02
LGR4_g20139.t1	LGR4	91	0	9.23E-04
LGR6_g15728.t1	LGR6	110	0	1.57E-04
MSTRG.13889.1	LILRB4	39	0	1.09E-02
MSTRG.19743.2	LIN54	176.5	0	2.66E-05
LIN54_g20590.t1	LIN54	40	0	1.26E-02
LINES_g7537.t1	LINES_g7537.t1	562.5	0	1.87E-07
LIPS_g3069.t1	LIPS_g3069.t1	246	0	2.76E-04
MSTRG.14.1	LMBR1	91	0	3.60E-04
LMBRL_g5065.t1	LMBR1L	64.5	0	1.86E-03
MSTRG.5600.2	LMBRD2	907	0	3.61E-08
MSTRG.5600.4	LMBRD2	203.5	0	1.99E-05
MSTRG.5600.3	LMBRD2	216.5	0	1.74E-04
LMNB1_g5635.t1	LMNB1_g5635.t1	37	0	1.79E-02
LMTD2_g14191.t1	LMNTD2	183	0	2.16E-05
MSTRG.13880.3	LMTK3	379.5	0	1.08E-06
MSTRG.13880.2	LMTK3	353.5	14	6.26E-04
MSTRG.1158.5	LNX2	78	0	7.32E-04
LOC000000086_g2610.t1	LOC000000086_g2610.t1	227.5	0	1.83E-05
PSMD8_g2936.t1	LOC100052677	108.5	0	3.70E-04
ELAC_g22434.t1	LOC101393639	374.5	0	1.52E-06
MSTRG.2558.1	LOC101395826	80.5	419.5	3.65E-03
AK17B_g21690.t1	LOC101395896	109	0	1.66E-04
OR5MB_g13675.t1	LOC101396874	92	0	3.41E-04
PEG3_g7867.t1	LOC101396888	182.5	0	2.21E-05
CST16_g8353.t1	LOC101397033	14	220.5	1.03E-03
MSTRG.8415.1	LOC101397033	61.5	0	5.01E-03
MSTRG.2553.3	LOC101399194	324	0	2.93E-06

MSTRG.2597.6	LOC101399194	83	0	3.20E-03
MSTRG.2553.2	LOC101399194	152	625.5	4.11E-02
ADM1A_g15311.t1	LOC101400422	438.5	0	4.23E-07
H31_g2240.t1	LOC101407346	82.5	0	6.22E-04
H4_g2237.t1	LOC101407346	28	0	3.20E-02
NDK_g10192.t1	LOC101407841	278	0	1.42E-05
LOC000000115_g9234.t1	LOC102149190	43	0	9.82E-03
MSTRG.432.2	LOC102150213	330	34	1.96E-02
TLR2_g18507.t1	LOC106782066	333	0	2.32E-04
MSTRG.9526.2	LOC106801183	222.5	0	9.98E-06
MSTRG.9526.3	LOC106801183	0	230	2.20E-05
KASH5_g22391.t1	LOC111767429	224.5	0	7.78E-06
MSTRG.14618.1	LOC111768565	48.5	0	5.14E-03
MSTRG.10918.1	LOC111775420	500.5	0	6.47E-06
MSTRG.3048.4	LPIN2	973	0	2.16E-08
MSTRG.3048.3	LPIN2	567.5	0	1.44E-06
LPP_g3305.t1	LPP	81.5	0	5.77E-04
MSTRG.2040.1	LRBA	1126.5	0	8.71E-08
LRC20_g587.t1	LRC20_g587.t1	56	0	1.63E-02
MSTRG.16050.4	LRCH1	53.5	0	3.46E-03
LRCH1_g6081.t1	LRCH1_g6081.t1	168.5	0	2.66E-05
OR6V1_g149.t1	LRFN2	59	322.5	9.85E-03
LRIF1_g6994.t1	LRIF1	64.5	0	4.39E-03
MSTRG.6954.2	LRIG2	708.5	0	6.07E-08
MSTRG.4954.2	LRP1	0	1986	3.00E-06
MSTRG.20253.1	LRP1B	7028.5	0	8.71E-12
MSTRG.20253.5	LRP1B	0	688	8.49E-06
LRP2_g5497.t1	LRP2_g5497.t1	162	0	5.33E-05
MSTRG.13662.1	LRP5	776	0	1.17E-07
LRC26_g11372.t1	LRRC26	22	167	2.31E-02
MSTRG.8255.2	LRRC42	238.5	6.5	4.29E-02
LRC45_g4671.t1	LRRC45	589.5	0	7.50E-06
LRC58_g3421.t1	LRRC58	76	0	8.51E-04
LRC63_g978.t2	LRRC63	55.5	0	2.83E-03
MSTRG.17572.1	LRRFIP2	1147	208	2.83E-02
LRIQ1_g9718.t1	LRRIQ1	184	0	2.19E-02
LRN4L_g13922.t1	LRRN4CL	115.5	0	1.30E-03
LRRT1_g1198.t1	LRRTM1	50	0	9.42E-03
LRTM1_g18417.t1	LRTM1	56	0	2.79E-03

MSTRG.11280.2	LSM1	141.5	0	8.84E-05
LS14A_g14912.t1	LSM14A	39.5	0	1.49E-02
MSTRG.5801.2	LSM4	79.5	0	8.02E-04
MSTRG.10869.1	LSS	328	0	2.24E-06
LTBP2_g9488.t1	LTBP2	72	0	1.30E-03
MSTRG.13584.2	LTBP3	1662	0.5	5.77E-09
MSTRG.13584.1	LTBP3	87	1265.5	4.98E-03
MSTRG.10846.2	LUC7L	55.5	0	4.87E-03
MSTRG.10846.3	LUC7L	228	15	1.32E-02
MSTRG.19320.1	LURAP1	81	0	6.84E-04
LY65C_g2453.t1	LY6G5C	49.5	0	2.17E-02
LY9_g6579.t2	LY9	30	0	2.61E-02
MSTRG.2304.2	LYRM4	143.5	0	2.06E-04
LYSM4_g12767.t1	LYSMD4	470	0	3.15E-07
MSTRG.12609.1	LYSMD4	43	0	7.67E-03
MACD2_g8409.t1	MACD2_g8409.t1	30	0	4.04E-02
PKHA6_g13543.t1	MAD1L1	724	19.5	7.36E-06
MSTRG.7830.1	MAD2L2	77.5	0	7.14E-04
MSTRG.13395.1	MADD	189	0	3.47E-05
MAEL_g6307.t1	MAEL	57	0	5.41E-03
MAF_g13175.t1	MAF	37.5	0	1.31E-02
K2C72_g22308.t2	MAGEB3	5	183.5	2.71E-02
MSTRG.21441.4	MAGED4	889.5	0	2.30E-08
MAIP1_g20773.t1	MAIP1	1360.5	0	7.67E-09
MAJIN_g13995.t1	MAJIN	296	0	3.64E-05
MAK_g12769.t1	MAK	94.5	0	6.00E-04
MALR1_g18446.t1	MALR1_g18446.t1	331.5	0	3.65E-05
MSTRG.18901.2	MAML2	0	498	5.77E-07
MSTRG.11389.2	MAN1B1	741.5	0	1.09E-07
MSTRG.11391.1	MAN1B1	1192.5	0	3.74E-06
MSTRG.16103.2	MAN2A1	0	1097.5	5.96E-06
AOFB_g21309.t1	MAOB	17	187	4.26E-02
MAP10_g19075.t1	MAP10	122.5	0	2.02E-04
MSTRG.12202.4	MAP1A	921	0	1.20E-05
MTAP2_g16158.t1	MAP2	225.5	0	1.45E-03
MSTRG.16851.2	MAP2K7	718.5	112.5	3.75E-02
MSTRG.14200.3	MAP3K10	63	0	2.21E-03
MSTRG.15656.2	MAP3K4	386	1273	3.89E-02
M3K6_g7949.t1	MAP3K6	23.5	0	5.35E-02

MSTRG.15514.5	MAP3K7	0	597.5	7.74E-06
MAP4_g18266.t1	MAP4	272.5	0	6.88E-06
MSTRG.1543.1	MAP4K3	0	78	2.82E-03
MSTRG.11403.1	MAP6	3.5	44	3.66E-02
MSTRG.20996.5	MAP7D3	818.5	0	4.80E-07
MSTRG.20996.1	MAP7D3	506	1568.5	3.69E-02
MK15_g9174.t1	MAPK15	136	0	5.94E-05
MSTRG.9169.4	MAPK15	105.5	0	2.68E-04
MSTRG.3212.1	MAPK4	12.5	76	1.70E-02
JIP1_g13550.t1	MAPK8IP1	60.5	0	2.27E-03
MSTRG.10795.1	MAPK8IP3	242	0	1.63E-05
MSTRG.16587.4	MAPK9	547.5	0	3.85E-07
MSTRG.11574.2	MAPKAP1	86.5	0	4.59E-04
MARH3_g16767.t1	MARCHF3	34.5	0	1.66E-02
MSTRG.9277.2	MARK3	1196	0	3.86E-08
MALD2_g16537.t2	MARVELD2	126	0	3.58E-04
MSTRG.5741.6	MAST4	1584	0	5.41E-08
MAST4_g5723.t1	MAST4	24.5	0	4.94E-02
MSTRG.12869.1	MATCAP1	137.5	0	5.70E-05
SCC4_g5760.t1	MAU2	27.5	0	3.52E-02
MSTRG.3209.7	MBD1	571.5	0	3.19E-05
MSTRG.3209.6	MBD1	98	0	1.75E-03
MBD2_g3010.t1	MBD2	28.5	0	4.16E-02
MSTRG.21188.2	MBD3	564	109.5	3.76E-02
MSTRG.4944.2	MBD6	41.5	0	1.06E-02
MSTRG.20978.6	MBNL3	1248	0	1.03E-08
MSTRG.20978.1	MBNL3	2114	0	4.30E-06
MSTRG.20978.3	MBNL3	173	0	2.19E-05
MSTRG.13890.2	MBOAT7	529	0	6.15E-07
MBTD1_g4105.t1	MBTD1	920.5	0	2.72E-08
MSTRG.4328.5	MBTD1	0	194.5	2.71E-05
MCHR1_g9939.t1	MCHR1	230	1395	3.02E-02
MSTRG.10864.1	MCM3	104	0	1.09E-03
GANP_g15052.t2	MCM3AP	213	0	4.57E-05
MCM4_g8904.t1	MCM4	38	0	1.20E-02
MCMBP_g18611.t1	MCMBP	31	0	2.37E-02
MCPH1_g11136.t1	MCPH1	26.5	0	4.04E-02
MSTRG.2579.2	MDC1	226.5	0	1.33E-05
MSTRG.2579.3	MDC1	47	0	5.44E-03

MSTRG.2579.5	MDC1	3	216	4.32E-02
MDFI_g2625.t1	MDFI	56.5	0	3.13E-03
MSTRG.4861.2	MDM2	408	0	5.52E-06
MGDP1_g12074.t1	MDP1	63.5	0	1.66E-03
MSTRG.3223.2	ME2	1157.5	0	1.16E-07
MSTRG.3223.1	ME2	113	1545	1.95E-05
MSTRG.16877.3	MED16	161.5	0	6.13E-05
MSTRG.8264.1	MED18	87	0	4.93E-03
MED22_g11455.t1	MED22	36.5	0	2.99E-02
MED27_g11474.t1	MED27	10.5	272.5	1.12E-03
MED7_g17032.t1	MED7	199	0	1.18E-05
MSTRG.12611.3	MEF2A	597.5	0	1.63E-06
MEFV_g10677.t1	MEFV	869.5	0	4.03E-08
MEGF8_g14791.t1	MEGF8	25.5	0	4.27E-02
MSTRG.1599.2	MEMO1	575.5	23.5	5.12E-03
MSTRG.1602.1	MEMO1	172.5	20	4.08E-02
MEPE_g20619.t1	MEPE	42.5	0	7.98E-03
MEST_g256.t1	MEST	1424	0	2.45E-06
MSTRG.9837.1	METAP2	486.5	0	8.68E-06
MSTRG.4837.2	METRNL	55	0	2.97E-03
MET14_g1756.t1	METTL14	413	0	9.88E-06
MET15_g20143.t1	METTL15	312.5	0	1.26E-05
MET16_g3857.t1	METTL16	22	895.5	1.35E-03
MSTRG.19884.1	METTL21A	48	0	3.54E-02
MSTRG.4557.4	METTL2A	294.5	0	6.41E-06
MSTRG.3044.1	METTL4	44.5	0	6.85E-03
MSTRG.20155.3	METTL5	127.5	0	9.23E-05
MSTRG.20155.2	METTL5	6.5	136.5	1.73E-04
MSTRG.20155.1	METTL5	41	0	1.09E-02
MSTRG.17495.4	METTL6	128	0	7.33E-04
METL8_g20918.t1	METTL8	37	0	1.55E-02
MEX3C_g3006.t1	MEX3C	73.5	0	7.33E-03
MSTRG.16908.2	MEX3D	510	0	8.37E-06
MSTRG.15362.3	MFF	372	12.5	5.02E-02
MFSD1_g6074.t1	MFSD1	142	0	7.19E-05
MFS12_g17656.t1	MFSD12	34.5	0	2.83E-02
MFD4A_g6272.t2	MFSD4A	66	0	2.01E-03
MFSD6_g20812.t1	MFSD6	68.5	0	2.83E-03
MSTRG.15925.3	MFSD9	62.5	0	4.56E-03

MSTRG.12174.3	MGA	300.5	0	2.56E-06
MSTRG.16590.1	MGAT1	831	0	1.25E-07
MSTRG.1431.1	MGAT5	142.5	0	7.27E-05
MSTRG.8449.1	MGME1	69.5	0	2.32E-03
MSTRG.10696.6	MGRN1	188.5	0	1.53E-05
MGST3_g6528.t1	MGST3_g6528.t1	25.5	0	5.07E-02
MSTRG.15156.4	MIA3	403.5	0	4.56E-04
MIAB_g5529.t1	MIAB_g5529.t1	562	0	1.56E-07
MIB1_g2856.t1	MIB1_g2856.t1	562	0	1.75E-07
MIB2_g7631.t1	MIB2	158.5	0	4.20E-05
MSTRG.7685.3	MIB2	126	0	6.53E-04
MSTRG.5443.1	MICAL3	1112	0	2.39E-08
MSTRG.5443.2	MICAL3	65	764.5	4.10E-06
MSTRG.9963.2	MICALL1	288	0	7.84E-06
MILL2_g14685.t1	MICB	1823.5	140	2.71E-02
MILL1_g14682.t1	MICB	32.5	0	2.78E-02
MSTRG.11212.2	MICU3	141.5	0	1.28E-04
MSTRG.9994.2	MIEF1	915.5	0	2.18E-08
MID49_g3596.t1	MIEF2	26.5	0	4.20E-02
MSTRG.7247.3	MIER1	991	54	6.76E-07
MIER2_g17540.t1	MIER2	37.5	0	1.93E-02
MIF_g15541.t1	MIF	104.5	0	5.75E-04
MIGA1_g7178.t2	MIGA1	1707.5	0	1.63E-08
MSTRG.6825.4	MINDY1	50.5	1064	3.72E-07
MINK1_g3762.t1	MINK1	426.5	0	1.51E-05
MSTRG.449.1	MIOS	989.5	1.5	1.12E-07
MSTRG.449.2	MIOS	0	183	2.40E-05
MSTRG.4007.1	MIS12	97.5	0	1.36E-03
MSTRG.4007.2	MIS12	43	0	1.21E-02
MISP_g17559.t1	MISP	660	5038.5	5.69E-04
MITD1_g16439.t1	MITD1	84	0	8.07E-04
MSTRG.17901.3	MKI67	3355.5	0	7.72E-11
MKKS_g8426.t1	MKKS	25.5	0	4.53E-02
MSTRG.14576.2	MKX	5926	955	1.91E-02
MLEC_g15381.t1	MLEC	1200.5	0	8.50E-09
MSTRG.17028.2	MLLT1	443.5	0	2.25E-06
MSTRG.6055.6	MLLT3	319.5	0	2.22E-06
MSTRG.17323.1	MME	25.5	594.5	5.62E-06
MSTRG.4996.1	MMP19	47.5	0	7.04E-03

MMP23_g7632.t1	MMP23B	38.5	0	1.48E-02
MNS1_g12505.t1	MNS1	81.5	0	5.77E-04
MSTRG.4041.2	MNT	110.5	0	1.50E-04
MNT_g3858.t1	MNT	61.5	0	2.32E-03
MOB3A_g17606.t1	MOB3A	924	0	2.16E-08
PHOCN_g20785.t1	MOB4	240.5	0	1.65E-05
MOCS1_g2606.t1	MOCS1	120.5	0	1.26E-03
MOC2B_g5656.t1	MOCS2	1521	8699.5	1.07E-02
MSTRG.1292.1	MOGS	35	0	2.00E-02
MOK_g9266.t1	MOK	28.5	0	3.03E-02
MSTRG.17722.2	MON1A	153.5	0	2.53E-05
MON1A_g18334.t2	MON1A	27.5	0	3.38E-02
MSTRG.20863.4	MORC4	250.5	0	5.31E-06
MSTRG.20863.1	MORC4	369	37.5	3.36E-03
MSTRG.6963.2	MOV10	157	0	3.11E-05
MSTRG.1205.1	MPHOSPH8	73.5	0	1.95E-03
MSTRG.1204.1	MPHOSPH8	33.5	0	1.95E-02
MSTRG.7940.2	MPL	38	0	1.46E-02
MSTRG.3803.5	MPRIP	0	431	1.20E-05
MERB1_g10566.t2	MPV17L	89.5	0	9.67E-03
MSTRG.4566.3	MRC2	1046.5	0	1.63E-08
MSTRG.4566.1	MRC2	728.5	2507.5	4.36E-02
MSTRG.18916.2	MRE11	230	0	1.62E-05
MTNA_g17257.t1	MRI1	714	33.5	2.86E-02
MRM2_g10097.t1	MRM2	51.5	0	5.30E-03
MRM3_g3894.t1	MRM3	68.5	0	4.84E-03
MSTRG.16581.3	MRNIP	146	10.5	4.74E-02
MSTRG.3213.1	MRO	1246	259.5	1.43E-02
MSTRO_g3001.t1	MRO	33.5	0	1.83E-02
MSTRG.9189.1	MROH1	516	0	2.54E-07
MSTRG.9189.2	MROH1	37.5	441	9.00E-06
MROH5_g9141.t1	MROH5	91.5	0	5.10E-04
RM10_g4178.t1	MRPL10	32	0	2.41E-02
RM17_g19975.t1	MRPL17	58	0	2.42E-03
RM03_g18048.t1	MRPL3	321.5	4.5	3.75E-03
RM32_g1452.t1	MRPL32	25	0	4.73E-02
RM37_g8173.t1	MRPL37	34	0	1.86E-02
RM45_g4185.t2	MRPL45	45.5	0	6.66E-03
RM46_g12798.t1	MRPL46	357.5	0	1.14E-06

MSTRG.5386.2	MRPL51	31.5	0	2.67E-02
RM53_g1228.t1	MRPL53	75.5	0	8.27E-04
RT11_g12799.t1	MRPS11	329	0	1.33E-05
MSTRG.16992.1	MRPS17	3.5	63.5	6.62E-03
MSTRG.2831.2	MRPS18B	210.5	0	3.69E-05
RT27_g16547.t1	MRPS27	49.5	0	1.26E-02
RT33_g191.t2	MRPS33	343.5	0	1.56E-06
MSTRG.15828.1	MRPS9	22	227.5	3.16E-04
CD20_g13855.t2	MS4A1	38	0	1.46E-02
MSTRG.1194.1	MS4A7	34.5	0	1.98E-02
MSTRG.2613.1	MSH5	190	0	1.99E-05
MSTRG.2613.4	MSH5	91.5	0	1.12E-02
MSTRG.20423.1	MSL3	317.5	0	2.16E-06
MSTRG.17719.3	MST1	186.5	3	3.81E-02
MSTRG.10013.1	MSTRG.10013.1	152	0	1.48E-04
MSTRG.10039.1	MSTRG.10039.1	356	0	2.94E-06
MSTRG.10050.2	MSTRG.10050.2	191.5	0	1.13E-04
MSTRG.10131.4	MSTRG.10131.4	85	0	5.35E-04
MSTRG.10137.2	MSTRG.10137.2	77	0	2.88E-02
MSTRG.10203.2	MSTRG.10203.2	26.5	0	4.04E-02
MSTRG.10206.1	MSTRG.10206.1	33.5	0	1.83E-02
MSTRG.10279.1	MSTRG.10279.1	413	0	1.86E-06
MSTRG.10279.4	MSTRG.10279.4	408	0	6.75E-04
MSTRG.10295.2	MSTRG.10295.2	206.5	0	2.50E-05
MSTRG.10322.3	MSTRG.10322.3	58.5	0	1.79E-02
MSTRG.10350.1	MSTRG.10350.1	25.5	0	4.32E-02
MSTRG.10359.5	MSTRG.10359.5	17	105.5	3.22E-02
MSTRG.10386.1	MSTRG.10386.1	25	0	4.63E-02
MSTRG.10411.3	MSTRG.10411.3	2008	217	8.12E-05
MSTRG.1046.2	MSTRG.1046.2	92	0	3.57E-04
MSTRG.10528.1	MSTRG.10528.1	136	0	1.42E-04
MSTRG.10538.2	MSTRG.10538.2	251.5	0	2.48E-05
MSTRG.10554.2	MSTRG.10554.2	32.5	0	2.09E-02
MSTRG.10555.1	MSTRG.10555.1	37.5	0	2.03E-02
MSTRG.10563.1	MSTRG.10563.1	263	0	1.29E-04
MSTRG.10583.1	MSTRG.10583.1	57	0	2.84E-03
MSTRG.106.1	MSTRG.106.1	49.5	0	6.04E-03
MSTRG.1060.1	MSTRG.1060.1	1208	0	7.09E-09
MSTRG.10607.3	MSTRG.10607.3	44	0	7.52E-03

MSTRG.10620.2	MSTRG.10620.2	93	0	3.64E-04
MSTRG.10628.1	MSTRG.10628.1	79	0	1.87E-03
MSTRG.10678.1	MSTRG.10678.1	104	0	2.76E-04
MSTRG.10697.1	MSTRG.10697.1	105.5	0	3.10E-04
MSTRG.10780.1	MSTRG.10780.1	67	0	2.21E-03
MSTRG.10786.1	MSTRG.10786.1	26	0	4.89E-02
MSTRG.10815.1	MSTRG.10815.1	42	0	1.96E-02
MSTRG.10816.1	MSTRG.10816.1	85	0	1.96E-03
MSTRG.10819.8	MSTRG.10819.8	182.5	0	1.85E-05
MSTRG.10886.1	MSTRG.10886.1	34	0	1.88E-02
MSTRG.1093.1	MSTRG.1093.1	292.5	0	2.53E-06
MSTRG.10943.1	MSTRG.10943.1	30	0	2.71E-02
MSTRG.10944.1	MSTRG.10944.1	13	110	2.84E-02
MSTRG.10978.1	MSTRG.10978.1	788	73.5	6.92E-05
MSTRG.11003.1	MSTRG.11003.1	507.5	0	1.79E-05
MSTRG.11012.1	MSTRG.11012.1	29	0	2.91E-02
MSTRG.11021.1	MSTRG.11021.1	2125	399	7.55E-03
MSTRG.11025.1	MSTRG.11025.1	286.5	13	2.89E-02
MSTRG.11029.1	MSTRG.11029.1	48	0	5.13E-03
MSTRG.11040.1	MSTRG.11040.1	51	0	4.48E-03
MSTRG.11045.1	MSTRG.11045.1	33	0	5.13E-02
MSTRG.11046.1	MSTRG.11046.1	151	0	1.36E-04
MSTRG.11057.1	MSTRG.11057.1	24.5	0	4.73E-02
MSTRG.11061.1	MSTRG.11061.1	23.5	0	5.35E-02
MSTRG.11062.1	MSTRG.11062.1	78.5	0	1.17E-03
MSTRG.11064.1	MSTRG.11064.1	204.5	3	2.21E-03
MSTRG.11104.1	MSTRG.11104.1	27	0	3.88E-02
MSTRG.11116.4	MSTRG.11116.4	342	0	1.39E-06
MSTRG.11124.1	MSTRG.11124.1	48.5	0	5.14E-03
MSTRG.11148.1	MSTRG.11148.1	773.5	0	8.96E-06
MSTRG.11187.2	MSTRG.11187.2	145	0	7.92E-05
MSTRG.112.1	MSTRG.112.1	31.5	0	2.58E-02
MSTRG.11254.2	MSTRG.11254.2	0	161.5	1.16E-05
MSTRG.11257.1	MSTRG.11257.1	92.5	0	4.27E-04
MSTRG.11344.3	MSTRG.11344.3	462.5	0	3.24E-06
MSTRG.11371.1	MSTRG.11371.1	556	0	2.20E-07
MSTRG.11431.1	MSTRG.11431.1	903	0	2.84E-07
MSTRG.11431.3	MSTRG.11431.3	474.5	0.5	7.76E-07
MSTRG.11431.6	MSTRG.11431.6	149	0	3.93E-05

MSTRG.11453.3	MSTRG.11453.3	52	0	4.21E-03
MSTRG.11455.2	MSTRG.11455.2	193	0	1.96E-05
MSTRG.11457.3	MSTRG.11457.3	140.5	0	5.36E-05
MSTRG.11467.4	MSTRG.11467.4	598	0	4.41E-07
MSTRG.11487.3	MSTRG.11487.3	993.5	0	4.63E-06
MSTRG.1149.1	MSTRG.1149.1	25.5	0	4.86E-02
MSTRG.11559.1	MSTRG.11559.1	1	26.5	5.18E-02
MSTRG.11618.2	MSTRG.11618.2	0	549.5	2.36E-06
MSTRG.11627.4	MSTRG.11627.4	64.5	0	7.84E-03
MSTRG.11628.1	MSTRG.11628.1	4	46.5	3.27E-02
MSTRG.11639.2	MSTRG.11639.2	566.5	2271	3.87E-02
MSTRG.11639.3	MSTRG.11639.3	932.5	0	1.95E-08
MSTRG.11666.3	MSTRG.11666.3	394	0	1.02E-05
MSTRG.11668.3	MSTRG.11668.3	163.5	0	3.69E-05
MSTRG.11676.1	MSTRG.11676.1	19	121.5	1.79E-02
MSTRG.11678.1	MSTRG.11678.1	24.5	174.5	4.13E-02
MSTRG.11727.3	MSTRG.11727.3	0	346.5	1.47E-05
MSTRG.11774.1	MSTRG.11774.1	207	0	1.04E-05
MSTRG.11778.2	MSTRG.11778.2	157	0	3.69E-05
MSTRG.11784.2	MSTRG.11784.2	169.5	0	4.41E-05
MSTRG.11793.2	MSTRG.11793.2	562	0	6.03E-07
MSTRG.1180.4	MSTRG.1180.4	42.5	0	8.31E-03
MSTRG.11817.1	MSTRG.11817.1	28294	2980	1.06E-02
MSTRG.11890.1	MSTRG.11890.1	502.5	0	3.16E-07
MSTRG.11890.4	MSTRG.11890.4	0	139.5	3.32E-05
MSTRG.1193.1	MSTRG.1193.1	53	0	5.90E-03
MSTRG.11959.1	MSTRG.11959.1	0	22	5.16E-02
MSTRG.11966.2	MSTRG.11966.2	4555	0	1.88E-11
MSTRG.11976.1	MSTRG.11976.1	0	27	2.65E-02
MSTRG.11989.1	MSTRG.11989.1	0	32	2.83E-02
MSTRG.12034.6	MSTRG.12034.6	58	0	2.95E-03
MSTRG.12043.1	MSTRG.12043.1	0	26	2.24E-02
MSTRG.12047.5	MSTRG.12047.5	0	45.5	8.29E-03
MSTRG.12048.1	MSTRG.12048.1	24.5	569	2.44E-04
MSTRG.1209.1	MSTRG.1209.1	26.5	0	3.87E-02
MSTRG.12119.1	MSTRG.12119.1	0.5	30.5	3.07E-02
MSTRG.1213.1	MSTRG.1213.1	30.5	0	2.56E-02
MSTRG.12139.1	MSTRG.12139.1	39.5	0	4.92E-02
MSTRG.12139.3	MSTRG.12139.3	168.5	0	8.11E-04

MSTRG.12175.1	MSTRG.12175.1	969	0	2.22E-08
MSTRG.122.1	MSTRG.122.1	0	24.5	3.06E-02
MSTRG.1225.1	MSTRG.1225.1	417	0	9.53E-06
MSTRG.12253.1	MSTRG.12253.1	163.5	4698.5	5.73E-08
MSTRG.12255.1	MSTRG.12255.1	41.5	232	3.08E-02
MSTRG.12318.1	MSTRG.12318.1	2.5	26.5	4.83E-02
MSTRG.12333.1	MSTRG.12333.1	1	27.5	2.63E-02
MSTRG.12343.1	MSTRG.12343.1	3.5	44.5	4.14E-02
MSTRG.12362.5	MSTRG.12362.5	1251	0	7.05E-09
MSTRG.12409.1	MSTRG.12409.1	4.5	36.5	3.86E-02
MSTRG.12427.1	MSTRG.12427.1	7	44	5.03E-02
MSTRG.12467.3	MSTRG.12467.3	260	0	4.57E-06
MSTRG.12473.2	MSTRG.12473.2	68.5	0	1.46E-03
MSTRG.12553.1	MSTRG.12553.1	0	25	3.28E-02
MSTRG.12558.1	MSTRG.12558.1	11	60.5	4.51E-02
MSTRG.12566.1	MSTRG.12566.1	1099	138	4.74E-02
MSTRG.12595.3	MSTRG.12595.3	1413	6075	2.11E-02
MSTRG.126.1	MSTRG.126.1	201	0	1.87E-05
MSTRG.126.2	MSTRG.126.2	26	491	1.76E-04
MSTRG.126.3	MSTRG.126.3	202	0	6.97E-05
MSTRG.1260.1	MSTRG.1260.1	555	14	1.97E-04
MSTRG.12628.1	MSTRG.12628.1	15	114	4.75E-03
MSTRG.12638.1	MSTRG.12638.1	1	40	3.91E-02
MSTRG.12669.3	MSTRG.12669.3	654.5	0	1.32E-07
MSTRG.12682.1	MSTRG.12682.1	1288	0	5.40E-09
MSTRG.12686.4	MSTRG.12686.4	162	0	1.06E-04
MSTRG.1274.2	MSTRG.1274.2	55	0	2.97E-03
MSTRG.1274.5	MSTRG.1274.5	51	0	5.00E-03
MSTRG.1277.1	MSTRG.1277.1	30.5	0	2.49E-02
MSTRG.12806.1	MSTRG.12806.1	111	0	3.46E-03
MSTRG.12846.1	MSTRG.12846.1	0	20	4.94E-02
MSTRG.12846.2	MSTRG.12846.2	320	0	3.55E-06
MSTRG.12944.1	MSTRG.12944.1	30.5	0	2.49E-02
MSTRG.12957.2	MSTRG.12957.2	391	1452	3.56E-02
MSTRG.1298.1	MSTRG.1298.1	119.5	0	2.37E-04
MSTRG.13118.4	MSTRG.13118.4	184	0	2.83E-05
MSTRG.13140.1	MSTRG.13140.1	147.5	1284	1.99E-02
MSTRG.13146.2	MSTRG.13146.2	279	0	3.69E-06
MSTRG.1315.1	MSTRG.1315.1	278	0	1.38E-05

MSTRG.13165.2	MSTRG.13165.2	166.5	2.5	2.71E-02
MSTRG.13165.7	MSTRG.13165.7	37	0	1.54E-02
MSTRG.13188.2	MSTRG.13188.2	141.5	639	1.86E-02
MSTRG.13192.1	MSTRG.13192.1	100.5	0	2.49E-04
MSTRG.13257.3	MSTRG.13257.3	0	342.5	1.48E-05
MSTRG.13346.3	MSTRG.13346.3	226	0	8.49E-06
MSTRG.13394.3	MSTRG.13394.3	53	0	3.55E-03
MSTRG.13419.1	MSTRG.13419.1	95.5	0	3.06E-04
MSTRG.13624.3	MSTRG.13624.3	177.5	0	1.28E-04
MSTRG.13667.3	MSTRG.13667.3	356.5	0	3.21E-04
MSTRG.13667.5	MSTRG.13667.5	2020.5	0	2.69E-09
MSTRG.13677.1	MSTRG.13677.1	1042	0	5.16E-08
MSTRG.137.3	MSTRG.137.3	30.5	0	3.33E-02
MSTRG.13719.2	MSTRG.13719.2	254	0	1.56E-05
MSTRG.13761.2	MSTRG.13761.2	338.5	0	2.01E-06
MSTRG.13761.4	MSTRG.13761.4	44	0	7.35E-03
MSTRG.13793.1	MSTRG.13793.1	250	0	2.75E-05
MSTRG.13793.3	MSTRG.13793.3	330.5	0	1.50E-06
MSTRG.1386.4	MSTRG.1386.4	397.5	73.5	4.08E-02
MSTRG.1389.1	MSTRG.1389.1	41.5	0	1.49E-02
MSTRG.14000.1	MSTRG.14000.1	57.5	0	3.81E-03
MSTRG.14017.1	MSTRG.14017.1	2	35.5	9.95E-03
MSTRG.1406.1	MSTRG.1406.1	1615	0	4.91E-09
MSTRG.14065.1	MSTRG.14065.1	116.5	13	1.04E-02
MSTRG.1407.1	MSTRG.1407.1	575.5	0	7.59E-06
MSTRG.14085.1	MSTRG.14085.1	330.5	0	3.84E-06
MSTRG.1409.1	MSTRG.1409.1	62.5	0	2.76E-03
MSTRG.14186.4	MSTRG.14186.4	42	0.5	1.22E-02
MSTRG.14230.1	MSTRG.14230.1	0	25	5.02E-02
MSTRG.14244.2	MSTRG.14244.2	101.5	1.5	2.31E-03
MSTRG.1437.1	MSTRG.1437.1	23.5	0	5.28E-02
MSTRG.14376.1	MSTRG.14376.1	57.5	0	8.43E-03
MSTRG.14379.1	MSTRG.14379.1	77.5	0	7.50E-04
MSTRG.14379.5	MSTRG.14379.5	57	0	3.21E-03
MSTRG.14410.1	MSTRG.14410.1	194	0	1.79E-05
MSTRG.14413.2	MSTRG.14413.2	227.5	0	7.16E-06
MSTRG.14420.1	MSTRG.14420.1	127	0	8.36E-05
MSTRG.14420.2	MSTRG.14420.2	46	0	5.92E-03
MSTRG.14454.1	MSTRG.14454.1	7724.5	1795.5	2.23E-02

MSTRG.14458.4	MSTRG.14458.4	367.5	0	1.18E-06
MSTRG.14475.1	MSTRG.14475.1	89.5	0	7.02E-03
MSTRG.14475.3	MSTRG.14475.3	181.5	0	9.75E-05
MSTRG.14538.3	MSTRG.14538.3	308	0.5	9.99E-06
MSTRG.14545.1	MSTRG.14545.1	5	66.5	2.74E-02
MSTRG.14553.3	MSTRG.14553.3	106.5	0	3.49E-04
MSTRG.1458.1	MSTRG.1458.1	643.5	0	1.35E-07
MSTRG.14587.2	MSTRG.14587.2	24	0	5.18E-02
MSTRG.1461.1	MSTRG.1461.1	47	0	6.23E-03
MSTRG.14632.3	MSTRG.14632.3	5808.5	494	3.90E-02
MSTRG.14671.2	MSTRG.14671.2	298	0	2.46E-06
MSTRG.1469.1	MSTRG.1469.1	0	63.5	7.44E-04
MSTRG.14690.2	MSTRG.14690.2	4668.5	0	1.88E-11
MSTRG.1472.1	MSTRG.1472.1	25	0	4.54E-02
MSTRG.1475.1	MSTRG.1475.1	506	0	3.25E-07
MSTRG.1477.1	MSTRG.1477.1	36.5	0	1.46E-02
MSTRG.14875.5	MSTRG.14875.5	471.5	0	3.13E-07
MSTRG.14879.2	MSTRG.14879.2	399.5	0	6.54E-07
MSTRG.14886.1	MSTRG.14886.1	253	0	1.48E-05
MSTRG.14892.1	MSTRG.14892.1	26.5	0	4.88E-02
MSTRG.14906.1	MSTRG.14906.1	991	0	2.26E-07
MSTRG.14921.1	MSTRG.14921.1	5.5	63	3.34E-03
MSTRG.14936.1	MSTRG.14936.1	46	0	1.40E-02
MSTRG.14960.1	MSTRG.14960.1	48	0	8.81E-03
MSTRG.14998.1	MSTRG.14998.1	42	0	8.64E-03
MSTRG.15010.3	MSTRG.15010.3	1299.5	0	1.32E-07
MSTRG.1510.2	MSTRG.1510.2	2	389.5	3.04E-09
MSTRG.1510.3	MSTRG.1510.3	305.5	0	2.17E-06
MSTRG.1510.4	MSTRG.1510.4	0	152	1.51E-05
MSTRG.15105.2	MSTRG.15105.2	39	0	1.10E-02
MSTRG.15134.1	MSTRG.15134.1	10.5	62	5.42E-02
MSTRG.1516.4	MSTRG.1516.4	27.5	0	4.38E-02
MSTRG.1517.1	MSTRG.1517.1	595.5	0	3.16E-07
MSTRG.15210.2	MSTRG.15210.2	166.5	0	3.32E-05
MSTRG.15248.1	MSTRG.15248.1	258	0.5	8.52E-06
MSTRG.15298.2	MSTRG.15298.2	201	0	2.10E-05
MSTRG.15298.3	MSTRG.15298.3	190	0	2.32E-05
MSTRG.1530.1	MSTRG.1530.1	102	0	2.77E-04
MSTRG.15303.2	MSTRG.15303.2	39	0	2.54E-02

MSTRG.1531.1	MSTRG.1531.1	28.5	0	3.09E-02
MSTRG.15377.1	MSTRG.15377.1	9.5	84	3.53E-02
MSTRG.15400.1	MSTRG.15400.1	0	25	2.60E-02
MSTRG.15462.2	MSTRG.15462.2	141.5	0	7.41E-05
MSTRG.15485.1	MSTRG.15485.1	14	567	9.81E-03
MSTRG.15486.1	MSTRG.15486.1	460	3	4.58E-03
MSTRG.15486.2	MSTRG.15486.2	148	0	9.49E-05
MSTRG.15486.3	MSTRG.15486.3	345	0	2.98E-06
MSTRG.15486.4	MSTRG.15486.4	171	0	2.74E-05
MSTRG.15536.4	MSTRG.15536.4	884.5	9.5	1.57E-07
MSTRG.15573.2	MSTRG.15573.2	122.5	0	3.21E-04
MSTRG.15573.3	MSTRG.15573.3	172	0	2.16E-05
MSTRG.15604.1	MSTRG.15604.1	2	40	1.40E-02
MSTRG.15608.4	MSTRG.15608.4	1305.5	0	4.59E-08
MSTRG.1566.1	MSTRG.1566.1	1297	17	2.16E-02
MSTRG.15683.2	MSTRG.15683.2	25.5	0	5.01E-02
MSTRG.15683.3	MSTRG.15683.3	26.5	0	5.13E-02
MSTRG.15778.3	MSTRG.15778.3	555	23.5	4.01E-07
MSTRG.1578.1	MSTRG.1578.1	170.5	0	2.18E-05
MSTRG.15785.2	MSTRG.15785.2	0	219	5.56E-05
MSTRG.15788.3	MSTRG.15788.3	454.5	0	3.00E-06
MSTRG.1582.1	MSTRG.1582.1	56	0	2.74E-03
MSTRG.159.1	MSTRG.159.1	59	0	4.32E-02
MSTRG.1590.1	MSTRG.1590.1	94.5	0	5.25E-04
MSTRG.15919.1	MSTRG.15919.1	10.5	78	1.53E-02
MSTRG.15969.2	MSTRG.15969.2	3625.5	46	1.39E-02
MSTRG.1597.1	MSTRG.1597.1	106	0	1.43E-03
MSTRG.15991.2	MSTRG.15991.2	511	0	1.16E-05
MSTRG.16009.3	MSTRG.16009.3	71	0	1.21E-03
MSTRG.16028.1	MSTRG.16028.1	152	0	4.95E-05
MSTRG.16194.1	MSTRG.16194.1	4.5	68.5	4.24E-03
MSTRG.16198.1	MSTRG.16198.1	11	60.5	3.02E-02
MSTRG.16199.1	MSTRG.16199.1	2.5	46	4.80E-02
MSTRG.1620.1	MSTRG.1620.1	39.5	0	2.15E-02
MSTRG.16244.1	MSTRG.16244.1	2	33.5	1.44E-02
MSTRG.16400.1	MSTRG.16400.1	153	0	4.06E-04
MSTRG.16400.4	MSTRG.16400.4	535	22.5	5.22E-03
MSTRG.16531.1	MSTRG.16531.1	78	605.5	1.53E-02
MSTRG.16531.2	MSTRG.16531.2	247.5	0	1.69E-05

MSTRG.1654.1	MSTRG.1654.1	302.5	0	9.46E-06
MSTRG.16593.5	MSTRG.16593.5	42	0	1.14E-02
MSTRG.1665.1	MSTRG.1665.1	31	0	2.66E-02
MSTRG.16750.1	MSTRG.16750.1	256	37	2.72E-02
MSTRG.16802.1	MSTRG.16802.1	112.5	2	3.60E-02
MSTRG.16826.1	MSTRG.16826.1	30.5	0	2.51E-02
MSTRG.16883.1	MSTRG.16883.1	28.5	0	4.16E-02
MSTRG.16977.2	MSTRG.16977.2	452.5	0	9.03E-06
MSTRG.1699.1	MSTRG.1699.1	52	0	5.65E-03
MSTRG.1707.1	MSTRG.1707.1	947.5	0	3.47E-08
MSTRG.17098.2	MSTRG.17098.2	395	0	7.89E-07
MSTRG.17102.2	MSTRG.17102.2	344	0	1.12E-05
MSTRG.17111.1	MSTRG.17111.1	3	33	5.48E-02
MSTRG.17114.1	MSTRG.17114.1	1	156	2.71E-04
MSTRG.17127.1	MSTRG.17127.1	51	730.5	6.25E-04
MSTRG.1720.1	MSTRG.1720.1	71.5	0	1.20E-03
MSTRG.17228.2	MSTRG.17228.2	553.5	0	1.02E-05
MSTRG.17228.4	MSTRG.17228.4	1493.5	0	1.17E-08
MSTRG.17231.1	MSTRG.17231.1	1.5	29	2.44E-02
MSTRG.17238.1	MSTRG.17238.1	4.5	52.5	2.88E-02
MSTRG.1726.10	MSTRG.1726.10	188	0	2.10E-05
MSTRG.1726.8	MSTRG.1726.8	47	0	1.10E-02
MSTRG.1729.1	MSTRG.1729.1	79	0	3.31E-03
MSTRG.17291.3	MSTRG.17291.3	965	6526	6.56E-03
MSTRG.1735.1	MSTRG.1735.1	172	0	4.21E-05
MSTRG.17369.2	MSTRG.17369.2	768	64	3.03E-03
MSTRG.17374.2	MSTRG.17374.2	470	0	4.10E-06
MSTRG.17611.2	MSTRG.17611.2	810.5	8.5	4.21E-02
MSTRG.1763.1	MSTRG.1763.1	2	30	5.03E-02
MSTRG.17657.1	MSTRG.17657.1	40.5	0	9.68E-03
MSTRG.17669.3	MSTRG.17669.3	6165.5	656	1.24E-03
MSTRG.17789.2	MSTRG.17789.2	0	614	9.14E-06
MSTRG.17813.1	MSTRG.17813.1	0	24	3.94E-02
MSTRG.17824.3	MSTRG.17824.3	474.5	0	3.10E-07
MSTRG.17836.1	MSTRG.17836.1	38	0	1.78E-02
MSTRG.17849.1	MSTRG.17849.1	0	26.5	3.46E-02
MSTRG.17866.6	MSTRG.17866.6	39	0	2.58E-02
MSTRG.17956.2	MSTRG.17956.2	556	0	1.78E-07
MSTRG.1798.1	MSTRG.1798.1	3	40.5	3.07E-02

MSTRG.17987.3	MSTRG.17987.3	284.5	0	3.14E-06
MSTRG.1800.1	MSTRG.1800.1	1	29	4.54E-02
MSTRG.1801.1	MSTRG.1801.1	3.5	46.5	1.99E-02
MSTRG.18018.1	MSTRG.18018.1	2.5	43	1.04E-02
MSTRG.1802.1	MSTRG.1802.1	0	24	4.11E-02
MSTRG.1803.1	MSTRG.1803.1	2	25	3.77E-02
MSTRG.18037.2	MSTRG.18037.2	23.5	0	5.44E-02
MSTRG.1804.1	MSTRG.1804.1	0	20.5	4.57E-02
MSTRG.18178.7	MSTRG.18178.7	259	17.5	4.53E-02
MSTRG.1819.4	MSTRG.1819.4	79.5	0	6.43E-04
MSTRG.1819.6	MSTRG.1819.6	76	0	2.62E-02
MSTRG.18219.2	MSTRG.18219.2	1084	0	1.65E-06
MSTRG.1822.1	MSTRG.1822.1	129.5	709	1.04E-03
MSTRG.1824.1	MSTRG.1824.1	10.5	92.5	7.52E-03
MSTRG.1825.2	MSTRG.1825.2	755	0	2.58E-04
MSTRG.18252.1	MSTRG.18252.1	511	0	3.10E-07
MSTRG.18252.2	MSTRG.18252.2	919	3430.5	1.65E-02
MSTRG.18263.1	MSTRG.18263.1	0	27	2.23E-02
MSTRG.1829.1	MSTRG.1829.1	0	25.5	4.04E-02
MSTRG.18370.1	MSTRG.18370.1	94	0	3.55E-04
MSTRG.18374.3	MSTRG.18374.3	54	0	9.04E-03
MSTRG.18375.2	MSTRG.18375.2	12.5	573.5	6.13E-08
MSTRG.18436.1	MSTRG.18436.1	1.5	25.5	2.86E-02
MSTRG.18473.1	MSTRG.18473.1	0.5	30	4.40E-02
MSTRG.1851.4	MSTRG.1851.4	2.5	1137	1.25E-03
MSTRG.18521.3	MSTRG.18521.3	203	0	3.24E-05
MSTRG.18529.1	MSTRG.18529.1	74.5	9.5	2.91E-02
MSTRG.18536.1	MSTRG.18536.1	1.5	27.5	3.65E-02
MSTRG.18581.1	MSTRG.18581.1	27	0	3.63E-02
MSTRG.18708.1	MSTRG.18708.1	0	231	2.12E-05
MSTRG.1871.1	MSTRG.1871.1	26.5	0	3.87E-02
MSTRG.18760.2	MSTRG.18760.2	40	0	2.85E-02
MSTRG.18795.1	MSTRG.18795.1	8.5	66.5	3.45E-02
MSTRG.18816.3	MSTRG.18816.3	77.5	0	1.39E-03
MSTRG.18931.2	MSTRG.18931.2	786.5	0	5.23E-08
MSTRG.18953.2	MSTRG.18953.2	32	0	2.79E-02
MSTRG.18957.1	MSTRG.18957.1	4	62	5.92E-03
MSTRG.18960.1	MSTRG.18960.1	0	44.5	2.05E-02
MSTRG.18961.1	MSTRG.18961.1	1.5	43.5	2.00E-02

MSTRG.19.5	MSTRG.19.5	363.5	1	6.41E-04
MSTRG.19053.4	MSTRG.19053.4	996	0	1.51E-08
MSTRG.19073.3	MSTRG.19073.3	202.5	0	1.11E-05
MSTRG.19176.3	MSTRG.19176.3	1327	0	4.64E-09
MSTRG.19177.2	MSTRG.19177.2	87.5	0	1.52E-02
MSTRG.1919.3	MSTRG.1919.3	547	0	1.71E-07
MSTRG.1919.4	MSTRG.1919.4	571.5	6.5	4.11E-02
MSTRG.1919.6	MSTRG.1919.6	529	0	3.10E-07
MSTRG.19340.2	MSTRG.19340.2	662	0	1.11E-06
MSTRG.19340.5	MSTRG.19340.5	190	0	2.14E-05
MSTRG.19407.4	MSTRG.19407.4	6	50.5	2.41E-02
MSTRG.19429.1	MSTRG.19429.1	0	24.5	3.68E-02
MSTRG.19491.2	MSTRG.19491.2	1228.5	0	7.11E-09
MSTRG.19492.1	MSTRG.19492.1	6	54	3.08E-02
MSTRG.19576.2	MSTRG.19576.2	855.5	0	2.72E-08
MSTRG.19587.5	MSTRG.19587.5	102.5	0	2.16E-04
MSTRG.19587.7	MSTRG.19587.7	102.5	0	2.61E-04
MSTRG.19610.2	MSTRG.19610.2	40	0	1.72E-02
MSTRG.1964.3	MSTRG.1964.3	12115	1404	1.28E-02
MSTRG.19669.1	MSTRG.19669.1	30.5	0	2.56E-02
MSTRG.19741.1	MSTRG.19741.1	25.5	0	4.22E-02
MSTRG.19746.3	MSTRG.19746.3	372.5	0	1.08E-05
MSTRG.19747.4	MSTRG.19747.4	142	0	6.59E-05
MSTRG.19747.7	MSTRG.19747.7	147.5	0	4.13E-05
MSTRG.19762.1	MSTRG.19762.1	808	0	7.55E-03
MSTRG.19762.4	MSTRG.19762.4	2055.5	3.5	1.52E-04
MSTRG.19805.1	MSTRG.19805.1	4.5	45.5	2.53E-02
MSTRG.19811.1	MSTRG.19811.1	0.5	41	2.29E-02
MSTRG.19813.3	MSTRG.19813.3	0	194.5	2.26E-05
MSTRG.19815.1	MSTRG.19815.1	31.5	0	2.27E-02
MSTRG.19817.1	MSTRG.19817.1	5	41.5	2.17E-02
MSTRG.19851.3	MSTRG.19851.3	320	0	1.65E-06
MSTRG.19867.1	MSTRG.19867.1	49	0	4.63E-03
MSTRG.19875.2	MSTRG.19875.2	480.5	0	8.69E-06
MSTRG.19903.3	MSTRG.19903.3	98	0	1.21E-03
MSTRG.19947.1	MSTRG.19947.1	134	0	6.47E-05
MSTRG.19997.1	MSTRG.19997.1	0	27.5	1.95E-02
MSTRG.20005.1	MSTRG.20005.1	0	32	3.54E-02
MSTRG.20012.1	MSTRG.20012.1	4.5	34.5	5.19E-02

MSTRG.20024.3	MSTRG.20024.3	129.5	0	1.32E-04
MSTRG.20076.1	MSTRG.20076.1	30.5	134.5	4.09E-02
MSTRG.20079.1	MSTRG.20079.1	20	97	2.29E-02
MSTRG.20089.1	MSTRG.20089.1	0.5	32.5	1.49E-02
MSTRG.20136.1	MSTRG.20136.1	3	31	3.82E-02
MSTRG.2017.3	MSTRG.2017.3	24	0	5.48E-02
MSTRG.20232.2	MSTRG.20232.2	29.5	0	2.88E-02
MSTRG.20329.1	MSTRG.20329.1	0	28	2.66E-02
MSTRG.20356.2	MSTRG.20356.2	2427.5	0	6.60E-07
MSTRG.20362.5	MSTRG.20362.5	257	0	1.35E-05
MSTRG.20373.1	MSTRG.20373.1	761.5	2189.5	4.84E-02
MSTRG.20427.3	MSTRG.20427.3	108	0	1.70E-04
MSTRG.20428.1	MSTRG.20428.1	80.5	2	9.74E-03
MSTRG.2044.1	MSTRG.2044.1	25.5	0	4.33E-02
MSTRG.20493.1	MSTRG.20493.1	311	0	1.86E-06
MSTRG.20493.2	MSTRG.20493.2	30	313.5	4.37E-03
MSTRG.20593.3	MSTRG.20593.3	340.5	0	1.01E-04
MSTRG.20663.1	MSTRG.20663.1	18	347	3.34E-02
MSTRG.20668.1	MSTRG.20668.1	84.5	0	5.69E-04
MSTRG.20676.1	MSTRG.20676.1	3	34.5	2.67E-02
MSTRG.20709.4	MSTRG.20709.4	454.5	21	7.87E-04
MSTRG.20737.2	MSTRG.20737.2	32.5	0	2.09E-02
MSTRG.20742.1	MSTRG.20742.1	9.5	66	4.12E-02
MSTRG.2075.3	MSTRG.2075.3	3410.5	112.5	2.91E-02
MSTRG.20756.1	MSTRG.20756.1	0.5	26	4.73E-02
MSTRG.20944.5	MSTRG.20944.5	551.5	4	2.45E-04
MSTRG.20950.2	MSTRG.20950.2	688	2182	4.05E-02
MSTRG.21010.1	MSTRG.21010.1	1.5	22.5	4.87E-02
MSTRG.21015.1	MSTRG.21015.1	68	0	1.85E-03
MSTRG.21016.1	MSTRG.21016.1	1	24.5	4.41E-02
MSTRG.2103.1	MSTRG.2103.1	5.5	44	3.98E-02
MSTRG.2104.1	MSTRG.2104.1	3	50	2.68E-02
MSTRG.2111.1	MSTRG.2111.1	33	0	1.97E-02
MSTRG.21154.2	MSTRG.21154.2	211.5	0	1.24E-05
MSTRG.21161.1	MSTRG.21161.1	105	0	2.02E-04
MSTRG.21221.10	MSTRG.21221.10	576	53.5	9.28E-03
MSTRG.21257.1	MSTRG.21257.1	3	36	2.38E-02
MSTRG.21265.3	MSTRG.21265.3	61.5	0	2.48E-03
MSTRG.2128.3	MSTRG.2128.3	383.5	0	2.63E-06

MSTRG.21284.2	MSTRG.21284.2	78	0	8.62E-04
MSTRG.21314.1	MSTRG.21314.1	0	29.5	2.65E-02
MSTRG.21337.1	MSTRG.21337.1	28.5	0	3.63E-02
MSTRG.21383.1	MSTRG.21383.1	4	38	4.39E-02
MSTRG.21430.1	MSTRG.21430.1	14	542	1.85E-02
MSTRG.21431.1	MSTRG.21431.1	0	270.5	3.66E-03
MSTRG.21431.2	MSTRG.21431.2	37.5	1259	1.78E-02
MSTRG.21444.8	MSTRG.21444.8	0.5	109.5	3.85E-03
MSTRG.21520.1	MSTRG.21520.1	773.5	0	8.96E-06
MSTRG.21520.3	MSTRG.21520.3	39	0	1.10E-02
MSTRG.21520.4	MSTRG.21520.4	86	0	4.68E-04
MSTRG.21523.1	MSTRG.21523.1	31.5	731	1.41E-02
MSTRG.21525.1	MSTRG.21525.1	7	155.5	1.84E-02
MSTRG.21526.1	MSTRG.21526.1	12	261.5	6.78E-03
MSTRG.21527.1	MSTRG.21527.1	25.5	537	1.79E-02
MSTRG.21547.2	MSTRG.21547.2	122	0	9.84E-05
MSTRG.21575.1	MSTRG.21575.1	15.5	452	3.22E-02
MSTRG.216.5	MSTRG.216.5	94	0	7.25E-04
MSTRG.21614.1	MSTRG.21614.1	280.5	42	2.08E-02
MSTRG.21616.1	MSTRG.21616.1	20	717	4.02E-02
MSTRG.2169.2	MSTRG.2169.2	2866	208.5	4.73E-02
MSTRG.2183.1	MSTRG.2183.1	26	1031.5	1.76E-03
MSTRG.2184.1	MSTRG.2184.1	1.5	41.5	4.53E-02
MSTRG.2244.1	MSTRG.2244.1	8	73	2.22E-02
MSTRG.2305.1	MSTRG.2305.1	131.5	0	1.65E-04
MSTRG.2319.1	MSTRG.2319.1	2	26.5	4.51E-02
MSTRG.237.1	MSTRG.237.1	195.5	638.5	2.93E-02
MSTRG.237.2	MSTRG.237.2	0	201.5	9.78E-03
MSTRG.2521.1	MSTRG.2521.1	0	28	3.83E-02
MSTRG.2541.1	MSTRG.2541.1	17.5	339.5	8.08E-05
MSTRG.2542.1	MSTRG.2542.1	70	519.5	4.01E-04
MSTRG.2556.2	MSTRG.2556.2	43.5	1.5	4.02E-02
MSTRG.2559.1	MSTRG.2559.1	15	249.5	7.60E-06
MSTRG.2563.1	MSTRG.2563.1	46.5	845.5	3.35E-08
MSTRG.2596.1	MSTRG.2596.1	39	0	1.14E-02
MSTRG.2639.1	MSTRG.2639.1	89	0	2.00E-03
MSTRG.2656.2	MSTRG.2656.2	9.5	216.5	4.22E-02
MSTRG.2704.2	MSTRG.2704.2	420	0	9.23E-06
MSTRG.271.2	MSTRG.271.2	550.5	0	9.10E-06

MSTRG.2768.1	MSTRG.2768.1	1.5	24.5	4.26E-02
MSTRG.2811.1	MSTRG.2811.1	2	51	5.15E-03
MSTRG.2860.2	MSTRG.2860.2	6137	1.5	1.04E-13
MSTRG.291.1	MSTRG.291.1	63	851.5	1.08E-04
MSTRG.2916.2	MSTRG.2916.2	332	0	6.98E-06
MSTRG.2916.3	MSTRG.2916.3	172	0	2.62E-05
MSTRG.2934.1	MSTRG.2934.1	0	42.5	1.25E-02
MSTRG.2965.2	MSTRG.2965.2	464	0	2.09E-06
MSTRG.2965.4	MSTRG.2965.4	2.5	467	4.15E-05
MSTRG.3070.1	MSTRG.3070.1	81.5	0	2.38E-03
MSTRG.3094.1	MSTRG.3094.1	2	34	1.52E-02
MSTRG.3095.1	MSTRG.3095.1	3.5	40.5	1.41E-02
MSTRG.3168.1	MSTRG.3168.1	26.5	0	3.83E-02
MSTRG.3186.4	MSTRG.3186.4	45.5	0	6.20E-03
MSTRG.3186.5	MSTRG.3186.5	33.5	0	2.47E-02
MSTRG.3186.6	MSTRG.3186.6	106	0	2.68E-04
MSTRG.3214.3	MSTRG.3214.3	53	0	3.40E-03
MSTRG.323.1	MSTRG.323.1	0	23.5	5.04E-02
MSTRG.3231.1	MSTRG.3231.1	0	24.5	3.22E-02
MSTRG.3258.1	MSTRG.3258.1	7.5	55.5	3.83E-02
MSTRG.3317.1	MSTRG.3317.1	0	28.5	1.97E-02
MSTRG.3321.7	MSTRG.3321.7	219	0	1.66E-05
MSTRG.3336.1	MSTRG.3336.1	1	27	1.66E-02
MSTRG.3341.1	MSTRG.3341.1	3	47	2.63E-02
MSTRG.3345.1	MSTRG.3345.1	79.5	0	1.01E-03
MSTRG.3349.1	MSTRG.3349.1	555.5	142	4.34E-02
MSTRG.3360.3	MSTRG.3360.3	0	207	2.53E-05
MSTRG.3405.1	MSTRG.3405.1	622	125	2.04E-02
MSTRG.3459.2	MSTRG.3459.2	63.5	0	1.87E-03
MSTRG.3465.1	MSTRG.3465.1	3	45	5.86E-03
MSTRG.3528.2	MSTRG.3528.2	927.5	0	1.98E-08
MSTRG.3597.1	MSTRG.3597.1	461.5	0	5.33E-07
MSTRG.360.1	MSTRG.360.1	4.5	41	4.79E-02
MSTRG.361.1	MSTRG.361.1	3.5	61	1.69E-03
MSTRG.362.1	MSTRG.362.1	95	677.5	4.35E-04
MSTRG.3655.5	MSTRG.3655.5	636	8869	3.05E-03
MSTRG.3659.3	MSTRG.3659.3	260	1015.5	1.57E-02
MSTRG.3697.1	MSTRG.3697.1	0	30.5	2.13E-02
MSTRG.3762.1	MSTRG.3762.1	56	0	4.31E-03

MSTRG.3770.1	MSTRG.3770.1	3	70.5	9.05E-04
MSTRG.3814.4	MSTRG.3814.4	465	0	1.13E-02
MSTRG.3874.3	MSTRG.3874.3	0	147	3.28E-05
MSTRG.3927.1	MSTRG.3927.1	1.5	23.5	4.44E-02
MSTRG.4018.2	MSTRG.4018.2	521.5	26	3.16E-03
MSTRG.4040.2	MSTRG.4040.2	520.5	0	8.26E-06
MSTRG.4156.4	MSTRG.4156.4	700	0	4.76E-06
MSTRG.4199.1	MSTRG.4199.1	9	106	3.18E-03
MSTRG.4210.1	MSTRG.4210.1	0	46	4.85E-03
MSTRG.4229.2	MSTRG.4229.2	472.5	0	3.45E-07
MSTRG.4229.3	MSTRG.4229.3	597	0	2.23E-07
MSTRG.4262.1	MSTRG.4262.1	3	39.5	1.91E-02
MSTRG.4273.2	MSTRG.4273.2	574.5	0	1.26E-06
MSTRG.4459.3	MSTRG.4459.3	198	0	1.65E-05
MSTRG.4499.1	MSTRG.4499.1	51	0	6.69E-03
MSTRG.4528.4	MSTRG.4528.4	89	0	7.11E-04
MSTRG.4607.1	MSTRG.4607.1	2	25.5	4.85E-02
MSTRG.4710.3	MSTRG.4710.3	232.5	0	7.60E-06
MSTRG.4838.2	MSTRG.4838.2	257	0	7.30E-05
MSTRG.4841.1	MSTRG.4841.1	4	45	1.38E-02
MSTRG.4916.1	MSTRG.4916.1	181.5	24	4.90E-02
MSTRG.5026.1	MSTRG.5026.1	427.5	0	1.14E-06
MSTRG.5081.1	MSTRG.5081.1	1718	89	1.49E-04
MSTRG.5093.1	MSTRG.5093.1	538	0	1.81E-07
MSTRG.5114.1	MSTRG.5114.1	315.5	0	1.22E-05
MSTRG.5129.1	MSTRG.5129.1	5	53.5	1.11E-02
MSTRG.5136.4	MSTRG.5136.4	0	799.5	7.60E-06
MSTRG.514.1	MSTRG.514.1	0.5	42	8.10E-03
MSTRG.516.1	MSTRG.516.1	0.5	67	1.80E-03
MSTRG.5199.1	MSTRG.5199.1	144	461	5.35E-02
MSTRG.5222.2	MSTRG.5222.2	0	122.5	4.32E-05
MSTRG.5238.2	MSTRG.5238.2	315.5	0	3.64E-06
MSTRG.529.3	MSTRG.529.3	50.5	1	5.41E-02
MSTRG.5336.1	MSTRG.5336.1	2	27.5	3.17E-02
MSTRG.5377.10	MSTRG.5377.10	265	0	1.01E-05
MSTRG.5377.7	MSTRG.5377.7	110.5	0	1.68E-04
MSTRG.5421.2	MSTRG.5421.2	145	0	9.45E-05
MSTRG.5452.2	MSTRG.5452.2	78.5	0	8.66E-03
MSTRG.5496.2	MSTRG.5496.2	#N/A	#N/A	3.47E-08

MSTRG.5496.3	MSTRG.5496.3	432.5	0	7.50E-07
MSTRG.5513.1	MSTRG.5513.1	6.5	42.5	3.64E-02
MSTRG.5527.1	MSTRG.5527.1	49	0	6.48E-03
MSTRG.5536.1	MSTRG.5536.1	158	0	1.40E-03
MSTRG.5543.1	MSTRG.5543.1	2.5	41.5	1.41E-02
MSTRG.5546.1	MSTRG.5546.1	0	37.5	4.88E-02
MSTRG.5547.1	MSTRG.5547.1	1.5	32.5	1.83E-02
MSTRG.5549.1	MSTRG.5549.1	3	43	1.29E-02
MSTRG.5559.1	MSTRG.5559.1	6	292	4.79E-04
MSTRG.5560.1	MSTRG.5560.1	7	99.5	2.42E-04
MSTRG.5566.1	MSTRG.5566.1	0	21	4.39E-02
MSTRG.5575.1	MSTRG.5575.1	1012.5	0	4.54E-06
MSTRG.5716.3	MSTRG.5716.3	1	61.5	3.29E-03
MSTRG.5741.5	MSTRG.5741.5	379	0	8.50E-04
MSTRG.576.2	MSTRG.576.2	160.5	0	6.60E-05
MSTRG.5773.3	MSTRG.5773.3	68	0	3.28E-02
MSTRG.5776.1	MSTRG.5776.1	53	0	3.42E-03
MSTRG.5776.3	MSTRG.5776.3	39.5	0	1.05E-02
MSTRG.5870.6	MSTRG.5870.6	160.5	0	6.60E-05
MSTRG.5924.2	MSTRG.5924.2	93	0	4.79E-04
MSTRG.5930.1	MSTRG.5930.1	936	0	2.31E-08
MSTRG.5966.1	MSTRG.5966.1	64	0	3.97E-02
MSTRG.5972.3	MSTRG.5972.3	186.5	0	2.18E-05
MSTRG.5989.1	MSTRG.5989.1	0	32.5	1.12E-02
MSTRG.6092.3	MSTRG.6092.3	1087.5	0	1.25E-06
MSTRG.6092.4	MSTRG.6092.4	165.5	0	1.96E-03
MSTRG.6092.5	MSTRG.6092.5	221	0	1.69E-05
MSTRG.6137.1	MSTRG.6137.1	1	27	5.37E-02
MSTRG.6217.1	MSTRG.6217.1	3132.5	514.5	2.31E-02
MSTRG.6323.1	MSTRG.6323.1	11.5	237.5	1.45E-04
MSTRG.6327.5	MSTRG.6327.5	37.5	0	1.31E-02
MSTRG.6353.1	MSTRG.6353.1	117.5	0	1.28E-04
MSTRG.6353.2	MSTRG.6353.2	92.5	8	4.93E-03
MSTRG.6423.1	MSTRG.6423.1	112	0	2.78E-04
MSTRG.6425.2	MSTRG.6425.2	661.5	0	7.94E-08
MSTRG.6448.1	MSTRG.6448.1	2	24	4.74E-02
MSTRG.6469.1	MSTRG.6469.1	2.5	30.5	2.89E-02
MSTRG.6480.2	MSTRG.6480.2	234	31	1.73E-02
MSTRG.6504.2	MSTRG.6504.2	3401	17	2.64E-02

MSTRG.6540.3	MSTRG.6540.3	11.5	108.5	2.79E-03
MSTRG.6624.2	MSTRG.6624.2	811	0	1.12E-07
MSTRG.6630.2	MSTRG.6630.2	50.5	0	4.53E-03
MSTRG.6635.1	MSTRG.6635.1	53	0	3.42E-03
MSTRG.680.1	MSTRG.680.1	0	30.5	3.79E-02
MSTRG.6834.1	MSTRG.6834.1	5.5	78	4.29E-02
MSTRG.6838.1	MSTRG.6838.1	20	150	4.81E-02
MSTRG.6840.1	MSTRG.6840.1	13	89	2.38E-02
MSTRG.6875.1	MSTRG.6875.1	76.5	0	2.40E-03
MSTRG.6875.2	MSTRG.6875.2	45	0	8.12E-03
MSTRG.6912.1	MSTRG.6912.1	1	22.5	5.02E-02
MSTRG.6995.1	MSTRG.6995.1	4	40	1.86E-02
MSTRG.7013.1	MSTRG.7013.1	1161.5	0	2.22E-08
MSTRG.7013.2	MSTRG.7013.2	479	0	3.04E-07
MSTRG.7022.2	MSTRG.7022.2	308	0	2.90E-06
MSTRG.7135.1	MSTRG.7135.1	68.5	0	1.70E-03
MSTRG.7135.3	MSTRG.7135.3	33	0	1.92E-02
MSTRG.7135.4	MSTRG.7135.4	206	0	1.15E-05
MSTRG.7138.1	MSTRG.7138.1	768	0	4.42E-08
MSTRG.7194.1	MSTRG.7194.1	326.5	0	2.38E-06
MSTRG.7194.4	MSTRG.7194.4	217.5	0	8.80E-06
MSTRG.7196.1	MSTRG.7196.1	539.5	0	1.96E-07
MSTRG.7196.2	MSTRG.7196.2	432	0	1.26E-06
MSTRG.7196.4	MSTRG.7196.4	500	0	3.92E-07
MSTRG.7196.5	MSTRG.7196.5	246	0	9.34E-06
MSTRG.7207.1	MSTRG.7207.1	35.5	0	1.64E-02
MSTRG.7246.1	MSTRG.7246.1	0	439.5	1.72E-05
MSTRG.7253.1	MSTRG.7253.1	381	0	2.27E-05
MSTRG.7253.2	MSTRG.7253.2	188.5	1441	1.06E-03
MSTRG.7312.3	MSTRG.7312.3	26	0	4.89E-02
MSTRG.7312.5	MSTRG.7312.5	652	0	1.93E-07
MSTRG.7312.7	MSTRG.7312.7	14	1826	4.98E-06
MSTRG.733.2	MSTRG.733.2	92	0	7.55E-04
MSTRG.7351.3	MSTRG.7351.3	8104.5	20.5	7.75E-04
MSTRG.737.1	MSTRG.737.1	11.5	187	3.52E-02
MSTRG.7375.1	MSTRG.7375.1	4.5	45	1.34E-02
MSTRG.7376.1	MSTRG.7376.1	51.5	0	3.89E-03
MSTRG.7394.1	MSTRG.7394.1	0.5	27	2.99E-02
MSTRG.741.1	MSTRG.741.1	845	58.5	2.64E-02

MSTRG.7430.1	MSTRG.7430.1	26.5	0	5.27E-02
MSTRG.7451.2	MSTRG.7451.2	0	475	1.25E-07
MSTRG.748.1	MSTRG.748.1	72	0	1.21E-03
MSTRG.7505.1	MSTRG.7505.1	4194.5	408.5	3.13E-02
MSTRG.7514.6	MSTRG.7514.6	0	117	4.20E-05
MSTRG.7528.1	MSTRG.7528.1	128	0	2.21E-04
MSTRG.7528.3	MSTRG.7528.3	615.5	0	1.11E-07
MSTRG.7755.1	MSTRG.7755.1	9	62.5	1.53E-02
MSTRG.7793.2	MSTRG.7793.2	12.5	621.5	3.03E-03
MSTRG.7807.2	MSTRG.7807.2	307.5	0	4.71E-06
MSTRG.7848.1	MSTRG.7848.1	717.5	50	5.28E-04
MSTRG.7912.1	MSTRG.7912.1	177.5	0	2.13E-05
MSTRG.7939.1	MSTRG.7939.1	40	0	1.20E-02
MSTRG.7942.2	MSTRG.7942.2	30.5	0	2.84E-02
MSTRG.7944.1	MSTRG.7944.1	2.5	30	3.70E-02
MSTRG.7992.1	MSTRG.7992.1	468	23.5	2.34E-04
MSTRG.8026.4	MSTRG.8026.4	74.5	0	1.18E-03
MSTRG.8153.3	MSTRG.8153.3	67.5	261	3.71E-02
MSTRG.8175.1	MSTRG.8175.1	0	34.5	8.77E-03
MSTRG.8197.2	MSTRG.8197.2	376.5	0	1.46E-05
MSTRG.821.1	MSTRG.821.1	2755.5	500	1.56E-02
MSTRG.8211.7	MSTRG.8211.7	36	0	3.57E-02
MSTRG.829.1	MSTRG.829.1	2	29.5	2.50E-02
MSTRG.8295.1	MSTRG.8295.1	5.5	61.5	9.68E-03
MSTRG.834.1	MSTRG.834.1	7.5	59	3.11E-02
MSTRG.8371.1	MSTRG.8371.1	3.5	42.5	1.51E-02
MSTRG.845.1	MSTRG.845.1	156.5	559.5	2.41E-02
MSTRG.8450.3	MSTRG.8450.3	57	0	3.44E-03
MSTRG.8510.2	MSTRG.8510.2	844.5	6	8.49E-04
MSTRG.8510.5	MSTRG.8510.5	908.5	0	2.32E-08
MSTRG.8540.3	MSTRG.8540.3	566	0	1.50E-07
MSTRG.862.1	MSTRG.862.1	199	1210.5	1.67E-02
MSTRG.8625.2	MSTRG.8625.2	307	0	6.92E-05
MSTRG.8625.4	MSTRG.8625.4	1081	0	1.40E-07
MSTRG.8629.2	MSTRG.8629.2	53	0	4.57E-03
MSTRG.8674.1	MSTRG.8674.1	433	0	3.88E-06
MSTRG.8674.2	MSTRG.8674.2	542.5	0	6.73E-07
MSTRG.8674.3	MSTRG.8674.3	61	493.5	9.50E-04
MSTRG.8718.1	MSTRG.8718.1	2	26.5	3.26E-02

MSTRG.8719.2	MSTRG.8719.2	140	0	6.97E-05
MSTRG.8719.3	MSTRG.8719.3	93	0	7.33E-04
MSTRG.8731.1	MSTRG.8731.1	1.5	40.5	8.93E-03
MSTRG.874.1	MSTRG.874.1	3	29.5	3.63E-02
MSTRG.8798.2	MSTRG.8798.2	787	0	9.32E-08
MSTRG.8841.4	MSTRG.8841.4	281	0	1.38E-05
MSTRG.8952.1	MSTRG.8952.1	6.5	62.5	3.75E-02
MSTRG.9008.1	MSTRG.9008.1	1.5	26.5	3.14E-02
MSTRG.9014.1	MSTRG.9014.1	968	0	2.38E-04
MSTRG.9024.1	MSTRG.9024.1	148.5	0	1.37E-04
MSTRG.9061.1	MSTRG.9061.1	52.5	216.5	3.73E-02
MSTRG.9089.1	MSTRG.9089.1	59	0	2.37E-03
MSTRG.9140.3	MSTRG.9140.3	692.5	0	2.20E-07
MSTRG.9168.2	MSTRG.9168.2	221.5	0	1.87E-05
MSTRG.932.4	MSTRG.932.4	373	0	4.28E-06
MSTRG.932.6	MSTRG.932.6	267	0	4.17E-06
MSTRG.9332.1	MSTRG.9332.1	571	98.5	5.52E-03
MSTRG.9332.2	MSTRG.9332.2	134	0	6.92E-05
MSTRG.9334.2	MSTRG.9334.2	323.5	0	1.59E-06
MSTRG.9337.1	MSTRG.9337.1	19.5	188.5	1.04E-03
MSTRG.9337.6	MSTRG.9337.6	256	0	2.04E-02
MSTRG.9343.5	MSTRG.9343.5	421.5	0	2.44E-05
MSTRG.9370.1	MSTRG.9370.1	2	47	9.24E-03
MSTRG.9379.2	MSTRG.9379.2	41.5	440.5	5.27E-02
MSTRG.9402.1	MSTRG.9402.1	31	1.5	4.41E-02
MSTRG.9432.1	MSTRG.9432.1	1.5	25.5	3.45E-02
MSTRG.9473.4	MSTRG.9473.4	30.5	0	2.56E-02
MSTRG.9485.1	MSTRG.9485.1	13.5	66	4.74E-02
MSTRG.959.2	MSTRG.959.2	5.5	239.5	7.53E-04
MSTRG.9739.4	MSTRG.9739.4	88.5	0	3.98E-03
MSTRG.9751.1	MSTRG.9751.1	6	779	2.27E-10
MSTRG.9777.1	MSTRG.9777.1	290.5	7350	8.96E-05
MSTRG.9994.1	MSTRG.9994.1	963.5	4	2.14E-03
MSTRG.12795.2	MT1A	357.5	22	6.67E-04
MT3_g12958.t1	MT3	415	21.5	5.40E-04
MSTRG.1522.2	MTA3	47.5	0	1.66E-02
MTA3_g1430.t1	MTA3_g1430.t1	182	0	1.58E-03
MARC2_g15815.t1	MTARC2	24.5	0	5.08E-02
SOGA1_g8619.t3	MTCL2	103	0	9.12E-03

LYRIC_g8954.t1	MTDH	365.5	0	1.98E-06
MSTRG.12994.2	MTERF1	989	70.5	2.39E-02
MTEF4_g15927.t1	MTERF4	278.5	4	5.03E-02
MTF2_g7100.t1	MTF2	30	0	4.97E-02
MSTRG.8009.2	MTFR1L	90.5	0	7.03E-03
MTFR2_g7285.t1	MTFR2	102.5	0	2.34E-04
MTDC_g1237.t1	MTHFD2	152	0	6.17E-04
MSTRG.3267.2	MTIF2	337.5	0	1.30E-06
MSTRG.17007.3	MTIF2	0	439.5	1.10E-05
MSTRG.3267.3	MTIF2	802	3937.5	5.45E-02
MSTRG.1159.2	MTIF3	69	0	1.75E-03
MTMR3_g15469.t1	MTMR3	48.5	0	4.82E-03
MTMR6_g1104.t1	MTMR6	3348	13983.5	4.01E-02
MTNA_g21013.t1	MTNA_g21013.t1	689.5	39	4.61E-02
MSTRG.7826.2	MTOR	1246	3	2.20E-04
MSTRG.7826.4	MTOR	30	0	2.71E-02
MSTRG.14592.1	MTPAP	198	0	1.45E-05
CCNF_g15252.t1	MTRFR	131	0	7.08E-05
MSTRG.4667.1	MTRNR2L1	181	0	2.09E-05
MUC17_g10251.t1	MUC12	126	0	1.06E-04
MSTRG.21587.7	MUC16	30.5	0	2.56E-02
MSTRG.21310.3	MUC16	29.5	0	3.07E-02
MUS81_g14036.t1	MUS81	65	0	2.07E-03
MVP_g10422.t2	MVP	67	0	1.32E-03
MXI1_g18679.t1	MXI1	63	0	2.37E-03
MSTRG.13901.1	MYADM	353	0	4.06E-06
MYB_g7290.t1	MYB	886	0	6.04E-07
MSTRG.9873.1	MYBPC1	154.5	1161.5	1.15E-03
MYPC_g13574.t1	MYBPC3	439	0	1.48E-03
MSTRG.9098.3	MYC	15	228.5	2.21E-02
MYL9_g8615.t1	MYL9	96	0	2.80E-04
MSTRG.12730.2	MYLK3	96	0	2.61E-03
MSTRG.3404.3	MYNN	492.5	0	2.63E-07
MYO15_g3592.t1	MYO15A	25.5	0	4.24E-02
MSTRG.4110.2	MYO18A	788	81.5	1.46E-03
MSTRG.4065.2	MYO1C	1220	0	3.49E-08
MYO1D_g3974.t1	MYO1D	61	0	8.33E-03
MYO1F_g17505.t1	MYO1F	38	0	1.25E-02
MYO5B_g2994.t1	MYO5B	3	31	4.04E-02

MSTRG.18992.1	MYO7A	30	0	2.66E-02
MSTRG.20346.1	MYO7B	48.5	0	3.50E-02
MYO9A_g12622.t1	MYO9A	64.5	0	1.54E-03
MSTRG.5854.4	MYO9B	518.5	0	2.53E-07
MSTRG.5854.2	MYO9B	389	0	1.66E-06
MSTRG.5854.5	MYO9B	375.5	3	7.42E-03
MSTRG.18385.1	MYOZ1	55	0	3.02E-03
MYPN_g18940.t2	MYPN	89	0	4.11E-04
MSTRG.13467.2	MYRF	31.5	0	3.32E-02
MZT1_g913.t1	MZT1	46	0	2.20E-02
NAA20_g8379.t1	NAA20	29	0	4.22E-02
NAA25_g15315.t1	NAA25	324.5	0	1.00E-05
MSTRG.9690.1	NAA30	623	0	1.02E-07
MSTRG.6297.2	NAA35	415.5	0	5.50E-07
NAB1_g20810.t1	NAB1	172.5	35	3.81E-02
NAB2_g4798.t1	NAB2	466	0	7.58E-07
MSTRG.4977.4	NABP2	92.5	0	1.34E-03
NACA_g4811.t1	NACA	112.5	0	3.00E-04
MSTRG.10031.2	NAGA	265.5	3.5	3.45E-06
NAGS_g4361.t1	NAGS	315	0	8.05E-06
F155A_g818.t1	NALF1	30	0	4.23E-02
MSTRG.8393.1	NANP	154	34.5	5.02E-02
SIAS_g11848.t1	NANS	32.5	0	2.02E-02
MSTRG.13693.2	NAP1L4	578	0	1.37E-07
NP1L5_g20629.t1	NAP1L5	33	0	3.47E-02
MSTRG.574.1	NAPEPLD	10.5	75	2.29E-02
MSTRG.18975.2	NARS2	154.5	0	9.29E-05
NAT9_g4515.t1	NAT9	765.5	0	4.15E-08
NNRE_g6677.t1	NAXE	65.5	0	1.56E-03
NBL1_g7835.t1	NBL1_g7835.t1	310	0	2.89E-06
NCALD_g8979.t1	NCALD	31.5	0	2.23E-02
MSTRG.5384.1	NCAPD2	620.5	0	1.31E-04
MSTRG.10135.5	NCAPH2	28.5	0	4.16E-02
NCBP1_g11855.t1	NCBP1	277	14.5	2.27E-02
NCAS2_g3344.t1	NCBP2AS2	103	0	7.15E-03
MSTRG.20063.1	NCKAP1	644	0	7.04E-06
NCLX_g15846.t1	NCLX_g15846.t1	17	242.5	3.91E-02
MSTRG.13216.2	NCOA2	1944	0	5.60E-07
MSTRG.8761.2	NCOA3	566	0	7.70E-06

MSTRG.7365.2	NCOA7	1242.5	203	5.32E-03
MSTRG.19213.2	NCR3LG1	81.5	0	3.95E-03
MSTRG.19213.3	NCR3LG1	78.5	0	4.46E-03
NDK_g20282.t1	NDK_g20282.t1	108	0	1.34E-03
MSTRG.11385.5	NDOR1	99.5	0	2.49E-04
NDOR1_g11367.t1	NDOR1	166	0.5	7.90E-03
MSTRG.11385.4	NDOR1	113	18.5	3.08E-02
NDP_g21310.t2	NDP	131.5	0	1.86E-04
MSTRG.9119.1	NDRG1	28.5	0	3.94E-02
MSTRG.12063.5	NDRG2	636	0	4.13E-07
MSTRG.12063.6	NDRG2	185.5	0	2.03E-05
MSTRG.8665.1	NDRG3	471.5	0	7.74E-06
NDUAA_g15946.t1	NDUFA10	414	0	1.24E-06
NDUAD_g5757.t1	NDUFA13	88	0	7.31E-04
NDUA8_g11668.t1	NDUFA8	90.5	0	5.13E-03
MSTRG.17700.1	NDUFAF3	282.5	0	4.45E-05
NDUBB_g22375.t1	NDUFB11	37	0	1.97E-02
NED4L_g3034.t1	NEDD4L	124	0	9.12E-05
MSTRG.7215.1	NEGR1	17	185	1.21E-03
MSTRG.17781.1	NEK4	72	0	1.03E-03
MSTRG.15087.2	NEK7	171.5	0	2.32E-05
NELFA_g20201.t1	NELFA	33	240.5	1.46E-03
MSTRG.8823.1	NELFCD	382	0	3.14E-04
CFAB_g2472.t1	NELFE	41.5	0	9.12E-03
MSTRG.11872.2	NEMF	177.5	0	1.77E-04
MSTRG.19943.2	NEPNP	295	0	5.56E-06
MSTRG.12733.1	NETO2	158	0	8.02E-04
MSTRG.12929.2	NFAT5	1840	0	1.20E-08
MSTRG.12929.4	NFAT5	9	191.5	1.23E-03
NF2IP_g10458.t1	NFATC2IP	89	0	4.74E-04
MSTRG.16964.4	NFIC	1070	0	2.22E-08
NFIX_g17270.t1	NFIX	601.5	0	3.85E-06
NFKB2_g18627.t1	NFKB2_g18627.t1	94	0	1.30E-02
MSTRG.8207.4	NFYC	79.5	0	6.47E-04
NHLC2_g18656.t1	NHLRC2	314	2596	1.79E-02
NHLC3_g883.t1	NHLRC3	292.5	1898.5	5.13E-02
NIM1_g5632.t1	NIM1K	73.5	0	1.01E-03
MSTRG.11853.3	NIN	47	0	3.01E-02
NIP7_g13093.t1	NIP7	510.5	0	1.10E-05

NIPA3_g20410.t1	NIPAL1	71	0	1.07E-03
NIPBL_g5590.t1	NIPBL	215	0	9.10E-06
THOC5_g15462.t2	NIPSNAP1	264	0	1.00E-04
MSTRG.11701.2	NIPSNAP3A	0	113.5	2.21E-03
MSTRG.7381.2	NKAIN2	244.5	0	5.47E-06
MSTRG.7381.1	NKAIN2	128.5	2.5	4.89E-02
NKD1_g12917.t1	NKD1	43	0	8.04E-03
NKD1_g12917.t2	NKD1	61	0	2.46E-02
NLGN2_g3724.t1	NLGN2	63.5	0	2.82E-03
STON1_g3725.t1	NLGN2	322.5	61	1.64E-02
NLGN3_g21472.t1	NLGN3	34	0	1.86E-02
NLRP3_g16523.t1	NLRP3	33.5	0	2.38E-02
MSTRG.10701.1	NMRAL1	183	0	2.45E-05
NO40_g7999.t1	NO40_g7999.t1	4.5	104.5	1.11E-03
NODAL_g18976.t1	NODAL	24	0	5.08E-02
NOL6_g5966.t1	NOL6	175.5	0	5.09E-05
PPRC1_g18729.t1	NOLC1	174.5	0	6.91E-05
MSTRG.18077.2	NOLC1	3972	233.5	1.85E-04
NOMO1_g10559.t1	NOMO1	43	0	1.03E-02
MSTRG.11994.1	NOP9	67	0	2.66E-03
CENPR_g7246.t1	NOTHING	36.5	0	2.02E-02
NOX1_g21569.t1	NOX1	532.5	50	2.38E-02
GNDS_g22373.t1	NOXA1	1045	0	2.95E-08
MSTRG.15816.1	NPAS2	43	0	1.36E-02
NPAS3_g12030.t1	NPAS3	80.5	0	2.40E-03
NPAT_g19520.t1	NPAT	57	0	2.55E-03
CTGE9_g22173.t1	NPR1	46	0	6.46E-03
MSTRG.10850.3	NPRL3	29.5	0	2.95E-02
NR1H2_g14538.t1	NR1H2	24	0	5.08E-02
MSTRG.13954.3	NR1H3	274	0	1.22E-05
NR2C1_g509.t1	NR2C1_g509.t1	34.5	0	2.72E-02
MSTRG.5774.1	NR2C2AP	60.5	0	2.16E-03
COT2_g12777.t1	NR2F2	61.5	0	2.99E-03
MSTRG.16386.2	NR3C1	0	593.5	9.37E-06
MSTRG.5060.2	NR4A1	1612.5	0.5	7.06E-09
MSTRG.5060.1	NR4A1	785.5	4115.5	3.90E-02
MSTRG.20199.6	NR4A2	0	59.5	1.86E-03
MSTRG.11737.1	NR4A3	177	2595	7.50E-08
MSTRG.11737.2	NR4A3	233	0	2.20E-05

MSTRG.15079.2	NR5A2	236	0.5	9.34E-04
NRAP_g18660.t1	NRAP	95.5	0	3.49E-04
NRF1_g269.t1	NRF1	486	0	1.09E-04
MSTRG.228.2	NRF1	106.5	0	1.82E-04
MSTRG.228.3	NRF1	110.5	0	3.28E-03
NRG1_g11263.t1	NRG1	353.5	0	1.12E-05
NRG4_g12691.t1	NRG4_g12691.t1	50.5	0	4.10E-02
MSTRG.11285.8	NSD2	0	182	2.42E-05
NSD3_g11287.t1	NSD2	96	0	9.28E-04
MSTRG.11285.13	NSD2	77	0	1.34E-02
NSE4A_g18603.t1	NSMCE4A	64.5	0	1.67E-03
MSTRG.4665.2	NT5C	2	31.5	1.48E-02
NT5D3_g17749.t1	NT5D3_g17749.t1	681.5	0	7.35E-04
MSTRG.10754.1	NTN3	689	0	7.13E-08
MSTRG.10754.2	NTN3	951	0	6.20E-07
MSTRG.7033.1	NTNG1	90.5	751	9.78E-04
MSTRG.7033.3	NTNG1	50.5	328.5	6.69E-03
MSTRG.18498.2	NTPCR	34	0	4.54E-02
MSTRG.46.3	NUB1	8.5	62	4.30E-02
NUDC3_g22078.t3	NUDCD3	120	0	8.02E-04
MSTRG.14393.1	NUDT11	449	2	4.81E-05
MSTRG.14393.4	NUDT11	240.5	0	4.43E-03
NUD16_g18049.t1	NUDT16	80	0	1.87E-03
TDR12_g15005.t1	NUDT19	0	439	4.91E-07
MSTRG.2678.1	NUDT3	0	277	1.83E-05
NUD4B_g9744.t1	NUDT4	215	0	8.96E-06
MSTRG.14476.2	NUDT5	30.5	0	3.13E-02
NUDT9_g20615.t1	NUDT9	27.5	0	4.42E-02
NUFP2_g3914.t1	NUFIP2	120.5	0	1.25E-04
NUMA1_g19727.t1	NUMA1	67.5	0	1.41E-02
MSTRG.19068.6	NUMA1	89.5	348	2.83E-02
MSTRG.3614.1	NUMB	35	0	1.60E-02
NUMBL_g14825.t1	NUMBL	35	0	2.18E-02
MSTRG.167.1	NUP205	155.5	4	1.93E-02
MSTRG.17276.3	NUP210	151.5	0	2.21E-03
MSTRG.17098.15	NUP210	4	185	1.74E-02
MSTRG.17098.7	NUP210	46	444.5	4.17E-02
MSTRG.17098.12	NUP210	0	20	5.11E-02
MSTRG.19706.1	NUP54	504.5	0	3.59E-07

NUP62_g14550.t2	NUP62	40	0	4.74E-02
NUP85_g4533.t1	NUP85	32	0	2.72E-02
NUP88_g3778.t1	NUP88	61.5	386	8.86E-03
MSTRG.19072.4	NUP98	148	0	3.03E-03
MSTRG.19072.5	NUP98	65	0	1.58E-02
NUSAP_g12367.t1	NUSAP1	27	0	3.81E-02
MSTRG.13510.3	NXF1	3815	1.5	9.72E-09
MSTRG.8420.2	NXT1	181.5	0	2.72E-05
MSTRG.10278.1	OBP2B	78	0	7.57E-04
OBSCN_g1005.t1	OBSCN_g1005.t1	126.5	0	2.18E-04
P_g12723.t1	OCA2	199.5	0	1.18E-05
ONCM_g15473.t1	OCM	50	0	2.80E-02
DCOR_g1635.t1	ODC1	556.5	0	1.67E-07
MSTRG.11530.2	ODF2	182.5	0	2.64E-05
OGDHL_g19145.t1	OGDHL	51	0	4.14E-03
MSTRG.12789.1	OGFOD1	9	170.5	1.79E-05
OGFD2_g15256.t2	OGFOD2	30	0	4.31E-02
OGT1_g21478.t1	OGT	29	0	3.45E-02
OLFL1_g19988.t1	OLFML1	113.5	0	4.82E-03
MSTRG.6646.1	OLFML2B	1521.5	289	2.09E-02
MSTRG.5334.1	OLR1	96.5	0	6.09E-04
OMD_g5892.t1	OMD	34	0	1.80E-02
MSTRG.3534.1	OPA1	1105.5	0	1.03E-08
OPA3_g14705.t1	OPA3	109	1	2.57E-03
OR2B8_g2301.t1	OR2B8P	75.5	0	5.84E-03
OR4D6_g13822.t1	OR4D6	30	0	2.61E-02
O51I2_g19872.t2	OR51I2	34.5	0	1.73E-02
O51V1_g19853.t1	OR51V1	329.5	0	4.46E-06
O51V1_g19860.t1	OR51V1	1626	0	1.09E-04
O52A5_g19858.t1	OR52A5	26	0	4.34E-02
O52I1_g19768.t1	OR52I1	44.5	0	7.36E-03
O52P1_g19849.t1	OR52P1	29.5	0	3.34E-02
OR8BC_g19286.t1	OR8B12	27.5	0	3.45E-02
CRCM1_g15283.t1	ORAI1	174.5	0	3.84E-03
MSTRG.7561.2	ORC3	246	0	6.40E-06
MSTRG.20237.2	ORC4	161	0	3.16E-05
ORC4_g21024.t1	ORC4	11	145	3.22E-03
OSGP2_g20818.t1	ORMDL1	211	0	6.04E-05
ORML3_g4223.t1	ORMDL3	90.5	0	4.99E-04

MSTRG.9772.2	OSBPL8	1494	0	9.16E-09
MSTRG.9772.3	OSBPL8	1502	0	1.11E-07
MSTRG.12070.3	OSGEP	31	0	2.85E-02
OSTM1_g7447.t1	OSTM1	65	0.5	1.80E-02
OTUB1_g13962.t1	OTUB1	24	0	5.02E-02
OTUD4_g1840.t1	OTUD4	152	0	2.81E-03
OTUD5_g21351.t1	OTUD5	66	0	3.12E-03
MSTRG.6857.2	OTUD7B	182	0	2.53E-04
MSTRG.16140.1	OTUD7B	36	0	1.44E-02
PA2G3_g9644.t1	OTX2	41.5	0	4.94E-02
MSTRG.3283.1	OVAAL	1847	10173	1.47E-02
OXER1_g1429.t1	OXER1	524	0	2.41E-07
P2R3B_g21977.t1	P2R3B_g21977.t1	14	121	1.44E-03
P2RX4_g15287.t1	P2RX4	33	0	3.47E-02
MSTRG.4032.1	P2RX5	12	147.5	2.05E-02
P3H1_g8322.t1	P3H1	124.5	0	1.58E-03
MSTRG.12951.6	PAAF1	30	0	5.07E-02
MSTRG.8192.3	PABPC4	1042.5	0	4.33E-08
MSTRG.10056.2	PACSIN2	28	0	3.57E-02
MSTRG.13391.1	PACSIN3	108	0	1.67E-04
MSTRG.13391.2	PACSIN3	119	0	8.60E-03
PAIP2_g16872.t1	PAIP2	34.5	0	1.69E-02
PAK2_g3349.t1	PAK2	1168	0	8.30E-09
PAL4H_g20115.t1	PAL4H_g20115.t1	254.5	0	4.43E-06
PALD_g18977.t1	PALD1	314.5	3	2.98E-04
AKAP2_g11756.t1	PALM2AKAP2	320	0	1.65E-06
PALMD_g7072.t1	PALMD	178.5	0	1.12E-04
MSTRG.10703.5	PAM16	326	0	1.65E-06
MSTRG.10703.4	PAM16	149.5	0	8.96E-03
MSTRG.4972.2	PAN2	156.5	0	4.86E-03
MSTRG.1156.2	PAN3	31	0	2.40E-02
PANK2_g8461.t1	PANK2	56.5	0	3.18E-02
MSTRG.8519.3	PANK2	73.5	3	5.08E-02
PAPOB_g10121.t1	PAPOLB	60.5	0	1.71E-02
MSTRG.1419.2	PAPOLG	8	122.5	1.62E-02
MSTRG.11634.1	PAPPA	692	7712.5	2.88E-03
PAPS1_g1712.t1	PAPSS1	26.5	251.5	9.15E-03
PAQR8_g2734.t1	PAQR8	101.5	0	5.50E-04
PAR2_g3140.t1	PAR2_g3140.t1	115.5	0	2.82E-04

MSTRG.14619.8	PARD3	2632	0	2.05E-10
MSTRG.7765.2	PARK7	284	0	2.77E-06
PARN_g10574.t1	PARN_g10574.t1	49.5	0	9.17E-03
MSTRG.5402.2	PARP11	201	0	3.63E-05
MSTRG.5402.3	PARP11	126.5	0	1.07E-03
DTX3L_g3398.t1	PARP15	36	0	3.24E-02
MSTRG.12071.1	PARP2	0	206.5	6.43E-05
MSTRG.5660.3	PARP8	693	0	6.28E-08
PARP9_g3397.t1	PARP9_g3397.t1	38	0	1.20E-02
MSTRG.15275.2	PASK	150.5	0	1.48E-02
MSTRG.905.1	PAX9	79	0	7.11E-04
MSTRG.32.3	PAXIP1	110.5	0	4.03E-02
MSTRG.11396.2	PAXX	30	0	4.62E-02
MSTRG.18315.3	PBLD	107	0	1.76E-04
MSTRG.18316.4	PBLD	121.5	0	2.09E-04
MSTRG.17773.4	PBRM1	769.5	0	4.27E-08
PBX1_g6534.t2	PBX1	74.5	0	1.10E-03
MSTRG.2635.5	PBX2	878.5	0	5.47E-06
PCDGI_g16936.t1	PCDGI_g16936.t1	48.5	1	4.60E-02
PCD17_g931.t1	PCDH17	37.5	0	1.64E-02
PCDBI_g16916.t1	PCDH18	768	0	4.87E-08
PCDGD_g16934.t1	PCDH18	33	0	1.95E-02
PCD19_g21562.t1	PCDH19	0	236.5	2.13E-05
MSTRG.16340.1	PCDHAC2	275	1071.5	5.09E-02
PCDBE_g16915.t2	PCDHB14	310	0	1.17E-05
PCDGH_g16929.t1	PCDHGB5	61.5	0	2.32E-03
MSTRG.16361.14	PCDHGC4	490.5	0	3.78E-06
PCDGM_g16937.t3	PCDHGC4	185	0	1.62E-05
PCDG7_g16927.t1	PCDHGC4	54.5	0	1.53E-02
PCF11_g19635.t2	PCF11	32	0	2.33E-02
MSTRG.4400.2	PCGF2	494	0	2.66E-07
MSTRG.18205.3	PCGF5	218.5	0	2.52E-05
PCGF6_g18708.t1	PCGF6	225.5	0	6.97E-05
PCKGC_g8793.t2	PCK1	105.5	0	9.39E-04
MSTRG.12011.1	PCK2	1126	63.5	4.02E-04
MSTRG.11200.7	PCM1	382	0	7.75E-07
MSTRG.11200.5	PCM1	403	0	1.24E-05
MSTRG.11200.8	PCM1	68.5	954	2.26E-03
MSTRG.2515.1	PCMT1	8	57	1.99E-02

MSTRG.13297.3	PCMTD1	668	0	1.26E-06
PCNP_g3512.t1	PCNP	38	0	1.36E-02
MSTRG.9556.4	PCNX1	1579.5	0	2.88E-09
PCX1_g9525.t1	PCNX1	76.5	0	7.53E-04
MSTRG.9556.2	PCNX1	1767.5	6917.5	4.51E-02
MSTRG.9667.3	PCNX4	1949.5	9	9.61E-03
PCX4_g9613.t2	PCNX4	224.5	30.5	1.35E-02
MSTRG.12588.3	PCSK6	61.5	0	5.73E-03
PPCT_g4089.t1	PCTP	60	0	2.18E-03
PCYOX_g1282.t1	PCYOX1	252	28.5	3.73E-02
MSTRG.3400.1	PDCD10	226.5	0	7.32E-06
PDCD4_g18672.t1	PDCD4	38	0	1.28E-02
MSTRG.11603.1	PDCL	129	0	7.56E-05
PDE4B_g5502.t1	PDE4B_g5502.t1	286	1529.5	3.84E-02
PDK3_g21242.t1	PDK3	92.5	0	1.29E-03
PDLI4_g16792.t1	PDLIM4	168.5	0	2.38E-05
PDLI5_g20647.t1	PDLIM5	56	0	3.31E-03
PDP2_g13025.t1	PDP2	30	0	5.37E-02
PDRG1_g8546.t1	PDRG1	61.5	0	2.02E-03
PZRN3_g17871.t2	PDZRN3	409.5	0	3.12E-06
MSTRG.12488.2	PEAK1	649	0	1.16E-07
MSTRG.12488.8	PEAK1	0	198	2.88E-05
PDES1_g3896.t1	PEDS1	0	1183.5	5.69E-06
PEG10_g528.t1	PEG10	423.5	0	5.40E-07
PEG3_g8404.t1	PEG3_g8404.t1	1293	222.5	4.87E-02
MYO7A_g1329.t1	PELI1	364	0	2.52E-06
PELI2_g9647.t1	PELI2	325.5	0	1.18E-05
PELI3_g14068.t1	PELI3	234.5	0	9.18E-06
MSTRG.5662.1	PELO	153.5	0	5.12E-05
PERC1_g10762.t1	PERC1_g10762.t1	115	0	1.35E-04
MSTRG.6686.1	PEX19	0	325	1.56E-05
PEX2_g13362.t1	PEX2	157	0	3.18E-05
MSTRG.5441.2	PEX26	239	0	5.85E-06
P3C2A_g9768.t1	PEX3	144	0	4.57E-05
MSTRG.9873.5	PEX3	14222	1415.5	3.32E-03
MSTRG.5358.1	PEX5	206	0	7.92E-05
MSTRG.5358.3	PEX5	77	0	7.33E-04
PFD2_g6570.t1	PFDN2	321	0	2.37E-03
PFD5_g4971.t1	PFDN5	405	0	1.23E-06

PGBD1_g578.t1	PGBD1_g578.t1	35	0	1.59E-02
PGK2_g2726.t2	PGK2	41.5	0	8.76E-03
PGP_g10721.t1	PGP	121.5	0	9.79E-05
PGPI_g5793.t1	PGPEP1	121	0	1.08E-04
MSTRG.4736.3	PGS1	85.5	0	4.68E-04
MSTRG.8060.3	PHACTR4	290.5	0	2.50E-05
PHB_g4141.t1	PHB1	415	0	5.40E-07
MSTRG.3410.2	PHC3	26.5	1534	1.66E-12
MSTRG.10032.1	PHETA2	1050	62.5	6.97E-04
PHF1_g2524.t1	PHF1	123	0	1.38E-04
PHF13_g7703.t1	PHF13	85	1299	5.21E-04
MSTRG.5916.1	PHF2	1254	27.5	1.09E-10
MSTRG.8651.2	PHF20	271	0	1.46E-05
MSTRG.9116.1	PHF20L1	1044.5	0	5.17E-08
MSTRG.9116.2	PHF20L1	26	821.5	1.37E-07
MSTRG.13692.1	PHLDA2	46	0	3.74E-02
MSTRG.20150.1	PHOSPHO2	58	0	2.45E-03
PHRF1_g7820.t1	PHRF1_g7820.t1	555	10	3.90E-07
PHYD1_g11517.t1	PHYHD1	216	0	1.85E-05
MSTRG.16560.4	PHYKPL	1060	0	1.22E-08
MSTRG.6813.1	PI4KB	442.5	5	2.01E-05
MSTRG.18948.1	PICALM	61.5	586.5	2.83E-03
MSTRG.9962.3	PICK1	111	0	9.12E-04
MSTRG.9962.1	PICK1	76.5	0	1.74E-02
PIGH_g9556.t1	PIGH	24.5	0	4.84E-02
PIGN_g3050.t1	PIGN	86.5	0	4.78E-04
MSTRG.8030.1	PIGV	143.5	0	4.79E-05
MSTRG.7139.1	PIGW	737	3	1.08E-03
PIGY_g20625.t1	PIGY	147.5	0	1.91E-03
PIGZ_g3343.t1	PIGZ	29.5	0	2.88E-02
PIHD1_g15948.t1	PIHD1_g15948.t1	81.5	0	7.58E-04
P3C2B_g6257.t1	PIK3C2B	27	0	3.61E-02
PK3CB_g18002.t1	PIK3CB	43.5	0	9.50E-03
MSTRG.5744.3	PIK3R1	2243	0	4.28E-08
MSTRG.5744.1	PIK3R1	6.5	1361.5	1.59E-03
MSTRG.5822.2	PIK3R2	210.5	0	1.14E-05
MSTRG.17487.2	PIK3R4	733.5	80	2.84E-02
PIN4_g21484.t1	PIN4	311	60.5	2.66E-02
PP4P2_g8917.t2	PIP4P2	102	0	6.23E-03

MSTRG.16972.2	PIP5K1C	1023.5	0	4.17E-08
MSTRG.20439.2	PIR	5	250	3.97E-06
MSTRG.20439.3	PIR	188	0	1.69E-05
MSTRG.20439.1	PIR	370	44.5	1.18E-02
SFI1_g15505.t1	PISD	47	0	1.03E-02
MSTRG.13648.1	PITPNM1	29.5	0	2.75E-02
PKDRE_g10029.t1	PKDREJ	159	0	5.08E-05
MSTRG.10734.1	PKMYT1	83.5	0	5.74E-04
MSTRG.20197.4	PKP4	144.5	0	5.05E-05
MSI1H_g15371.t1	PLA2G1B	553	0	5.73E-07
PA24B_g12378.t1	PLA2G4B	67	0	2.69E-02
MSTRG.9968.2	PLA2G6	131.5	0	1.82E-03
TEFM_g4511.t1	PLAGL1	467.5	29.5	1.88E-02
UROK_g19017.t1	PLAU	0	140	5.69E-03
MSTRG.14135.1	PLAUR	102	0	4.58E-04
PLCB_g7522.t1	PLCB_g7522.t1	30.5	0	2.56E-02
MSTRG.13539.3	PLCB3	495.5	0	5.40E-07
MSTRG.18962.1	PLCD1	3	56	2.25E-03
MSTRG.17578.3	PLCD1	54.5	0	8.04E-03
MSTRG.17578.1	PLCD1	1243.5	239.5	2.36E-02
PLCE1_g18832.t1	PLCE1	711	0	5.73E-08
MSTRG.8700.5	PLCG1	1.5	41.5	1.48E-02
HYALP_g18071.t1	PLCL2	44	0	7.21E-03
MSTRG.3425.2	PLD1	403.5	0	9.87E-06
MSTRG.3425.5	PLD1	346	0	1.57E-02
MSTRG.9179.5	PLEC	1872.5	0	1.13E-08
MSTRG.9179.3	PLEC	0	1887.5	3.24E-06
MSTRG.9179.4	PLEC	242	0	1.63E-05
PLEC_g9180.t1	PLEC	92.5	542.5	2.11E-03
PLEK_g1307.t1	PLEK	25	176	3.23E-02
PKHA3_g20857.t1	PLEKHA3	69.5	0	2.10E-03
PKHA6_g6255.t1	PLEKHA6	39	0	4.55E-02
MSTRG.20373.3	PLEKHB2	4003	0	6.71E-11
PKHF1_g15022.t1	PLEKHF1	121	0	1.46E-04
MSTRG.8934.2	PLEKHF2	83.5	0	1.31E-02
PKHG7_g9742.t1	PLEKHG7	93.5	0	8.11E-04
MSTRG.16928.2	PLEKHJ1	0	918	1.57E-08
MSTRG.7857.3	PLEKHM2	455.5	0	9.13E-06
MSTRG.6121.1	PLGRKT	74	0	1.15E-03

PLK1_g6440.t1	PLK1_g6440.t1	238	1104.5	2.32E-03
MSTRG.1935.3	PLK4	0	347	1.47E-05
MSTRG.7834.2	PLOD1	467.5	0	8.96E-06
MSTRG.11268.1	PLPBP	68	1	1.45E-02
PLPL2_g18085.t1	PLPL2_g18085.t1	37.5	232	2.98E-02
MSTRG.11285.2	PLPP5	264	13	3.24E-05
MSTRG.11285.3	PLPP5	181	0	1.20E-04
PLPR2_g17326.t1	PLPPR2	82.5	0	3.02E-02
PLST_g21673.t1	PLS3	43.5	0	1.00E-02
MSTRG.21081.3	PLXNA3	409.5	0	1.14E-06
P20D2_g7516.t1	PM20D2	544.5	34.5	4.81E-02
MSTRG.10681.2	PMM2	175.5	0	3.83E-05
MSTRG.10681.1	PMM2	25.5	0	4.22E-02
MSTRG.20029.1	PMS1	5	235.5	3.13E-07
MSTRG.20029.2	PMS1	123.5	0	9.14E-05
MSTRG.7514.1	PNISR	2	931.5	1.63E-09
ANX11_g14678.t1	PNMA1	143	0	6.88E-05
PMA6E_g21872.t1	PNMA6F	60.5	0	4.24E-03
PNM8B_g14677.t1	PNMA8A	87.5	0	1.56E-02
PNMT_g4215.t1	PNMT	25.5	0	4.68E-02
PNPH_g12186.t1	PNP	78	0	1.56E-02
MSTRG.11372.4	PNPLA7	1441	0	2.28E-08
PLPL7_g11353.t1	PNPLA7	163	0	4.05E-05
MSTRG.11372.3	PNPLA7	369	0	2.02E-04
PLPL8_g659.t1	PNPLA8	8	146.5	3.61E-04
PODN_g8194.t2	PODN	37.5	578.5	1.27E-04
MSTRG.6409.1	POGK	1750	0	8.62E-09
MSTRG.3627.2	POGLUT1	245	0	1.53E-05
MSTRG.6810.3	POGZ	512	0	8.49E-06
DPOLB_g11320.t1	POLB	42.5	0	2.08E-02
DPOD4_g14093.t1	POLD4	210	0	9.51E-04
MSTRG.10055.1	POLDIP3	151.5	0	4.04E-04
MSTRG.15028.2	POLE	189.5	0	2.91E-04
DPOE4_g22002.t1	POLE4	154	0	3.81E-05
MSTRG.2797.1	POLH	204.5	4.5	1.31E-02
RPAC2_g1088.t1	POLR1D	72.5	0	4.76E-03
RPC22_g1087.t1	POLR1D	55	0	8.81E-03
RPA34_g14711.t1	POLR1G	94	0	4.08E-04
TITIN_g22012.t1	POLR1G	92.5	3	2.67E-02

RPAB2_g12652.t1	POLR2F	74.5	0	1.40E-03
RPB7_g13928.t1	POLR2G	26	0	4.06E-02
MSTRG.2242.2	POLR3D	677.5	0	3.57E-07
MSTRG.6877.2	POLR3GL	173.5	0	2.18E-05
MSTRG.10019.2	POLR3H	85	0	5.60E-04
RPC10_g10831.t1	POLR3K	37	0	1.55E-02
PMGT1_g8254.t2	POMGNT1	79	0	1.11E-03
PMGT2_g18197.t1	POMGNT2	51	0	1.11E-02
POP1_g8959.t1	POP1	30	1056.5	3.08E-02
MSTRG.10311.1	POP7	52.5	0	4.66E-03
MSTRG.10361.3	POR	78	0	7.21E-03
POTE1_g300.t1	POT1	4	51	2.26E-02
PO2F1_g6310.t1	POU2F1	13.5	126.5	1.25E-02
MSTRG.14432.3	POU2F3	155.5	0	3.23E-05
MSTRG.11922.1	POU3F3	733.5	0	3.94E-07
MSTRG.2694.1	PPARD	340.5	0	3.21E-06
MSTRG.2694.2	PPARD	192.5	0	1.37E-05
MSTRG.17222.2	PPARG	1505.5	293.5	3.89E-02
COAC_g12668.t2	PPCDC	333	0	1.38E-05
LIPA4_g15714.t1	PPFIA4	0	30	1.43E-02
MSTRG.5217.5	PPFIBP1	313.5	0	1.21E-05
MSTRG.19141.2	PPFIBP2	445	0	1.07E-06
PPIA_g918.t1	PPIA_g918.t1	234.5	0	6.15E-06
PPIB_g12555.t1	PPIB	56	0	1.48E-02
MSTRG.20148.3	PPIG	46	0	5.90E-03
MSTRG.16085.2	PPIP5K2	899	0	2.22E-08
MSTRG.16085.6	PPIP5K2	0	60.5	2.68E-03
PPM1G_g16758.t1	PPM1G_g16758.t1	201.5	816	5.00E-02
MSTRG.19778.1	PPM1K	444.5	2031.5	3.09E-03
MSTRG.17762.3	PPM1M	34.5	797.5	1.09E-05
MSTRG.2575.2	PPP1R10	1002	0	3.62E-06
ASPP1_g9296.t1	PPP1R13B	337.5	0	2.86E-06
PR15A_g14606.t1	PPP1R15A	99	0	5.37E-04
MSTRG.9209.4	PPP1R16A	834.5	9	3.52E-05
MSTRG.9209.3	PPP1R16A	148	0	2.49E-04
MSTRG.9209.5	PPP1R16A	13.5	1271	2.83E-02
IPP2_g3337.t1	PPP1R2	42	0	1.59E-02
PPR21_g1391.t1	PPP1R21	518	0	2.24E-06
MSTRG.14101.2	PPP1R37	441	0	1.65E-06

PED1A_g22195.t2	PPP1R3F	56	0	3.99E-03
PP1R7_g15925.t1	PPP1R7	29.5	0	3.50E-02
2AAA_g14461.t1	PPP2R1A	32.5	295	1.86E-02
DRC8_g17211.t1	PPP2R2A	58.5	0	4.12E-02
MSTRG.17459.2	PPP2R3A	26.5	0	4.32E-02
2A5G_g9259.t1	PPP2R5C	3.5	81	3.22E-02
MSTRG.9630.4	PPP2R5E	805.5	0	3.72E-08
MSTRG.2966.2	PPP4R1	1215	0	6.98E-09
MSTRG.1441.2	PPP4R3B	0	1242	5.53E-06
MSTRG.9341.6	PPP4R4	83	0	1.81E-03
MSTRG.13875.2	PPP6R1	338.5	0	1.62E-06
MSTRG.10131.1	PPP6R2	189	0	1.55E-05
MSTRG.10131.9	PPP6R2	33	0	2.87E-02
MSTRG.5728.2	PPWD1	21	202.5	5.68E-04
XIRP2_g17264.t1	PRB1	34.5	0	1.72E-02
MSTRG.18970.3	PRCP	3072	0.5	3.73E-10
PRD14_g13394.t1	PRDM14	35.5	0	1.54E-02
PRD16_g7659.t1	PRDM16	24.5	0	4.94E-02
PRDM8_g20577.t1	PRDM8	33.5	0	2.64E-02
MSTRG.1511.3	PREPL	209.5	0	1.02E-05
MSTRG.5155.3	PRICKLE1	718.5	0	5.45E-04
PRI1_g4810.t1	PRIM1	596	53	3.32E-03
KAPCA_g17242.t1	PRKACA	21.5	244.5	6.24E-03
MSTRG.11977.4	PRKD1	1251.5	0	7.67E-09
MSTRG.11977.1	PRKD1	107.5	1187.5	7.55E-05
KPCD3_g1461.t1	PRKD3	1565.5	0	2.15E-09
MSTRG.20083.1	PRKRA	194.5	0	1.35E-03
MSTRG.13970.2	PRMT1	2457.5	545.5	1.91E-02
ANM6_g7046.t1	PRMT6	59	0	4.14E-03
PRIO2_g8457.t1	PRNP	30	0	3.08E-02
PROM1_g21452.t1	PROM1_g21452.t1	220.5	0	1.51E-05
MSTRG.14504.1	PRPF18	72	0	2.99E-03
MSTRG.11893.2	PRPF39	193	0	2.02E-05
MSTRG.20208.1	PRPF40A	1408.5	0	7.09E-09
MSTRG.2294.2	PRPF4B	265	0	4.10E-06
MSTRG.2294.6	PRPF4B	201	0	3.02E-05
MSTRG.2294.4	PRPF4B	0	262.5	1.84E-04
MSTRG.2294.7	PRPF4B	97	0	4.47E-04
MSTRG.4277.1	PRR11	429	0	1.02E-06

NAT8B_g1246.t1	PRR13	2070	0	1.23E-08
MSTRG.5036.2	PRR13	127	0	4.29E-04
PR23A_g17998.t1	PRR23A	70	0	4.60E-03
MSTRG.2573.3	PRR3	0	209	2.48E-05
PRR5_g10012.t1	PRR5	0	208.5	2.37E-05
MSTRG.10072.2	PRR5	142	0	5.33E-05
PRC2A_g2446.t2	PRRC2A	0	567.5	1.08E-05
MSTRG.6454.1	PRRC2C	3224.5	9	1.88E-11
BSSP4_g10706.t1	PRSS22	74	0	2.42E-02
MSTRG.6825.2	PRUNE1	163.5	0	5.12E-05
MSTRG.18596.2	PRXL2A	256.5	0	1.38E-05
MSTRG.9528.4	PSEN1	617	0	7.23E-06
PSB5_g12112.t1	PSMB5	29	0	3.19E-02
TAP2_g2503.t2	PSMB8	57	0	3.58E-03
PSD11_g3972.t1	PSMD11	244	0	1.62E-05
PSDE_g20972.t1	PSMD14	96	0	5.06E-04
MSTRG.1460.2	PSME4	416	5657	4.90E-05
PSMG2_g2830.t2	PSMG2_g2830.t2	1547	21831	1.45E-05
PTAFR_g7966.t1	PTAFR	54	0	7.85E-03
MSTRG.7085.4	PTBP2	41.5	0	1.02E-02
MSTRG.7085.2	PTBP2	82.5	1.5	3.00E-02
MSTRG.11665.4	PTBP3	29	1744	9.73E-04
PTCD1_g18628.t1	PTCD1_g18628.t1	4	151	2.47E-02
MSTRG.6313.1	PTCH2	88.5	530	1.19E-03
PE2R4_g5606.t1	PTGER4	825	0	3.34E-08
MSTRG.7181.1	PTGFR	16	186	6.73E-05
MSTRG.7182.1	PTGFR	11	229	5.37E-04
PTGR3_g3091.t1	PTGR3	144.5	0	5.42E-05
PTH2R_g20698.t1	PTH2R	25.5	0	4.32E-02
FAK1_g9126.t1	PTK2	26.5	0	4.07E-02
PTN12_g617.t1	PTPN12	123.5	0	2.13E-04
MSTRG.14835.3	PTPRC	259	0	5.87E-06
MSTRG.8359.2	PTPRF	1488.5	0	2.82E-06
MSTRG.8359.3	PTPRF	0	452	1.72E-05
MSTRG.17839.2	PTPRG	3291.5	0	8.62E-11
PTPRG_g7.t1	PTPRG_g7.t1	228	0	8.69E-06
PTPRH_g14399.t1	PTPRH	66.5	0	1.85E-02
PTPRJ_g13589.t1	PTPRJ_g13589.t1	0	125	1.56E-04
MSTRG.2951.2	PTPRM	3181.5	0	2.65E-05

MSTRG.9787.6	PTPRQ	327	0	9.37E-06
MSTRG.9787.4	PTPRQ	204	0	1.08E-05
MSTRG.9787.5	PTPRQ	188	0	6.97E-05
PUF60_g9177.t1	PUF60	39.5	0	3.53E-02
MSTRG.8082.5	PUM1	2796.5	0	6.10E-08
MSTRG.1702.1	PUM2	2	44.5	5.19E-02
MSTRG.16897.1	PWWP3A	181.5	0	2.08E-05
MSTRG.1782.1	PXDN	2896.5	0	1.72E-09
MSTRG.4807.3	PYCR2	331	1	2.67E-06
MSTRG.4807.4	PYCR2	170	0	2.05E-04
MSTRG.5263.4	PYROXD1	82.5	1	9.62E-03
PZRN3_g7989.t1	PZRN3_g7989.t1	38	0	1.20E-02
QRIC1_g18299.t1	QRICH1	4.5	249	3.80E-02
MSTRG.19294.2	QSER1	640.5	0	2.96E-06
MSTRG.19294.5	QSER1	227	0	1.17E-05
R3HC1_g2029.t1	R3HCC1	26.5	0	3.83E-02
MSTRG.20271.1	R3HDM1	365.5	0	9.77E-07
MSTRG.20271.5	R3HDM1	183.5	0	1.01E-04
R3HD1_g21049.t1	R3HDM1	37	0	1.34E-02
MSTRG.20271.2	R3HDM1	697.5	12	2.73E-02
RFIP1_g11277.t1	RAB11FIP1	91	0	5.66E-04
MSTRG.11031.3	RAB11FIP3	58	0	2.42E-03
RFIP4_g3959.t1	RAB11FIP4	62	1	2.02E-02
RAB1A_g1323.t1	RAB1A	54	0	4.85E-03
RAB1B_g14056.t1	RAB1B	28.5	0	3.32E-02
RB22A_g8801.t1	RAB22A	118.5	0	1.10E-04
RAB36_g15561.t1	RAB36	9.5	295.5	5.27E-02
RAB41_g21460.t1	RAB41	990.5	0	5.66E-06
MSTRG.17118.2	RAB43	2.5	161	2.94E-05
RAB4B_g14819.t1	RAB4B	287.5	0	8.49E-04
MSTRG.4990.2	RAB5B	948.5	0	8.66E-06
RAB9A_g21179.t2	RAB9A	216	0	8.44E-04
RABE1_g3777.t1	RABEP1	374	18.5	1.03E-02
MSTRG.6480.3	RABGAP1L	87	0	1.26E-03
MSTRG.6480.4	RABGAP1L	70.5	0	1.54E-03
RBG10_g6374.t2	RABGAP1L	55	0	5.86E-03
PGTA_g12069.t1	RABGGTA	26	0	4.03E-02
MSTRG.7204.4	RABGGTB	371.5	0	1.08E-05
MSTRG.5088.1	RACGAP1	1402.5	0	1.13E-08

RAD21_g9032.t1	RAD21	43.5	1	3.38E-02
MSTRG.12150.2	RAD51	193	0	1.96E-05
RAD51_g12352.t1	RAD51	43	0	8.04E-03
MSTRG.5423.2	RAD52	56.5	0	4.03E-03
RAEL1_g8789.t3	RAE1	233	0	1.94E-04
MSTRG.20312.1	RALB	433.5	0	4.91E-07
MSTRG.20312.7	RALB	0	240.5	2.10E-05
MSTRG.2965.1	RALBP1	0	286	1.79E-05
MSTRG.11933.3	RALGAPA1	456	0	9.12E-06
MSTRG.8689.2	RALGAPB	735.5	0	5.38E-08
MSTRG.8689.3	RALGAPB	241	0	1.61E-05
MSTRG.21307.1	RALGDS	31.5	0	2.49E-02
MSTRG.8615.2	RALY	827.5	114.5	1.21E-03
RAMP2_g4326.t1	RAMP2	465.5	0	3.85E-06
RANB9_g2144.t2	RANB9_g2144.t2	993.5	0	3.23E-08
MSTRG.15869.2	RANBP2	497	7270.5	2.46E-04
RAGP1_g9948.t1	RANGAP1	119.5	0	1.46E-03
MSTRG.3921.2	RANGRF	36	0	1.55E-02
MSTRG.19821.2	RAP1GDS1	171	2	1.81E-02
MSTRG.2084.5	RAPGEF2	330.5	0	2.56E-06
MSTRG.2084.2	RAPGEF2	616.5	14	4.90E-02
MSTRG.19915.3	RAPH1	692.5	0	1.23E-07
RAPH1_g20731.t1	RAPH1	25	0	4.49E-02
SYRM_g7525.t1	RARS2	40	0	1.17E-02
NGAP_g6387.t1	RASAL2	422	0	3.16E-04
MSTRG.6245.1	RASEF	369.5	1627	3.26E-02
MSTRG.12125.3	RASGRP1	298.5	0	7.62E-06
GRP4_g14877.t1	RASGRP4	250	0	4.93E-06
RSLAA_g15459.t1	RASL10A	1135.5	26.5	3.06E-06
RASF7_g14192.t1	RASSF7	183	0	3.87E-05
MSTRG.13292.2	RB1CC1	3391	22.5	7.65E-03
ZN157_g6237.t1	RBAK	136	0	5.88E-05
MSTRG.3019.1	RBBP8	558.5	37.5	1.28E-02
MSTRG.3019.3	RBBP8	48.5	0	2.66E-02
MSTRG.18568.2	RBCK1	389.5	59	1.42E-02
MSTRG.3329.1	RBFA	53	0	4.82E-03
MSTRG.9935.3	RBFOX2	242.5	0	4.62E-04
MSTRG.1618.1	RBKS	76	0	4.35E-03
MSTRG.21589.5	RBM10	542	0	1.76E-07

MSTRG.8917.4	RBM12B	182	0	2.65E-05
RB12B_g8928.t1	RBM12B	219.5	0	9.94E-05
RB15B_g18361.t1	RBM15B	195	0	1.93E-05
MSTRG.12034.2	RBM23	456.5	0	5.33E-07
MSTRG.12034.4	RBM23	359.5	0	1.02E-05
MSTRG.12034.3	RBM23	248	1	9.94E-05
MSTRG.932.2	RBM26	14	112.5	3.97E-02
MSTRG.16611.3	RBM27	614.5	0	7.25E-06
MSTRG.16611.4	RBM27	221.5	0	1.80E-05
RBM28_g288.t1	RBM28	180	0	2.85E-05
RBM33_g17.t1	RBM33	63	0	6.93E-03
MSTRG.22.2	RBM33	42	0	1.13E-02
RBM4B_g14078.t1	RBM4B	131	0	4.77E-04
MSTRG.13629.5	RBM4B	141.5	0	5.38E-04
MSTRG.13629.2	RBM4B	153.5	0	1.36E-03
MSTRG.17724.3	RBM5	1099	0	2.28E-08
MSTRG.18745.1	RBM7	0	297.5	4.38E-06
MSTRG.20186.2	RBMS1	454	1460.5	4.21E-02
RBMS3_g18106.t1	RBMS3	64	0	2.12E-02
MSTRG.7808.1	RBP7	100	0	2.69E-04
MSTRG.7808.2	RBP7	65	0	1.72E-03
RBX1_g9944.t1	RBX1	75	0.5	3.47E-03
MSTRG.10008.2	RBX1	33.5	0	3.38E-02
MSTRG.6478.1	RC3H1	2807.5	0	1.61E-10
MSTRG.6478.3	RC3H1	13	258.5	5.96E-06
MSTRG.7985.2	RCAN3	263	0	1.42E-05
MSTRG.1046.3	RCBTB1	863	0	3.69E-08
RCC1_g7973.t1	RCC1	47.5	0	5.26E-03
RCCD1_g12830.t1	RCCD1	38.5	0	2.47E-02
MSTRG.13630.3	RCE1	76	0	1.23E-03
MSTRG.13630.5	RCE1	1	141.5	5.22E-02
MSTRG.9208.1	RECQL4	705	0.5	2.26E-07
MSTRG.9208.2	RECQL4	58	294.5	1.50E-02
REEP4_g2045.t1	REEP4	1101.5	0	1.10E-08
REEP6_g17590.t1	REEP6	276.5	0	6.10E-05
MSTRG.19045.2	RELT	96	0	7.93E-04
REM1_g8535.t1	REM1	38.5	0	1.37E-02
MSTRG.57.3	REPIN1	570	0	1.42E-07
MSTRG.57.4	REPIN1	312.5	0	1.12E-05

MSTRG.57.2	REPIN1	192.5	0	3.70E-05
MSTRG.20451.3	REPS2	20	163	2.47E-02
MSTRG.1248.2	RETSAT	33.5	188.5	4.26E-03
MSTRG.7445.1	REV3L	161.5	1991.5	3.40E-06
MSTRG.5790.2	REX1BD	72	0	2.99E-03
RFC4_g3296.t1	RFC4_g3296.t1	25.5	0	4.28E-02
MSTRG.4207.2	RFFL	42	0	1.26E-02
MSTRG.6215.2	RFK	159.5	0	3.97E-05
MSTRG.16630.3	RFX1	50	0	4.29E-03
MSTRG.16630.1	RFX1	54.5	0	8.91E-03
MMTA2_g16506.t1	RFX1	48.5	0	1.40E-02
RM55_g16507.t1	RFX1	31.5	0	2.67E-02
MSTRG.6812.1	RFX5	83	0	5.39E-04
MSTRG.12289.2	RFX7	524	0	2.04E-07
RGF1C_g17191.t1	RGF1C_g17191.t1	4	48.5	2.40E-02
MSTRG.11109.1	RGL1	126	0	6.26E-04
MSTRG.21583.1	RGL1	27	0	3.57E-02
RGL1_g6435.t1	RGL1	25	0	4.62E-02
RGL2_g2096.t1	RGL2_g2096.t1	55	0	1.39E-02
MSTRG.10843.2	RGS11	214.5	0	5.63E-05
MSTRG.10843.3	RGS11	12.5	84.5	1.94E-02
RGS12_g20218.t1	RGS12	155	0	7.86E-05
RGS18_g15793.t2	RGS18	16662.5	15	6.32E-04
RGS19_g8891.t1	RGS19	14367	430	6.47E-09
RGS2_g15789.t1	RGS2	111	900	3.83E-02
RGS2_g20770.t1	RGS2_g20770.t1	8583	46	4.22E-02
RGS20_g13466.t1	RGS20_g13466.t1	0	19776.5	4.40E-06
MSTRG.11640.3	RGS3	44	0	1.39E-02
RGS4_g6538.t1	RGS4	117.5	0	1.16E-04
RHBL2_g8111.t1	RHBDL2	192.5	857	3.12E-02
RHBL3_g3969.t1	RHBDL3	526	0	2.39E-07
KMT2D_g5067.t1	RHEB	198	0	1.50E-05
RHEB_g38.t1	RHEB_g38.t1	168.5	0	3.87E-05
MSTRG.18273.4	RHOBTB1	78	0	7.32E-04
RHOG_g19737.t1	RHOG	30	0	2.96E-02
MSTRG.4163.1	RHOT1	352.5	0	1.66E-06
MSTRG.20644.1	RIBC1	620.5	15	2.17E-04
MSTRG.19148.2	RIC3	36	0	1.51E-02
MSTRG.9914.2	RIC8B	222	0	9.06E-06

MSTRG.20222.2	RIF1	1175	0	9.16E-09
MSTRG.20222.6	RIF1	239.5	0	9.71E-04
RIAD1_g6810.t1	RIIAD1	62.5	0	3.20E-03
MSTRG.17937.1	RIIAD1	1	26.5	2.00E-02
RIMKA_g8328.t1	RIMKLA	384	0	3.78E-06
MSTRG.8383.2	RIMKLA	272	1010.5	1.39E-02
MSTRG.5350.4	RIMKLB	467.5	0	3.18E-07
RIN1_g14061.t1	RIN1	196.5	0	4.97E-04
RIN2_g8380.t1	RIN2	123	0	1.00E-04
RIT1_g6698.t1	RIT1	1066	126.5	5.52E-03
RL23A_g16586.t1	RL23A_g16586.t1	395.5	50.5	1.44E-02
RL7A_g8718.t1	RL7A_g8718.t1	105	0.5	6.40E-04
MSTRG.8199.3	RLF	0	551.5	9.90E-06
CL029_g9725.t1	RLIG1	29.5	0	3.70E-02
RNF12_g21494.t1	RLIM	73	0	1.51E-03
RM13_g9050.t1	RM13_g9050.t1	41.5	0	8.76E-03
MSTRG.13146.4	RMI1	54.5	0	3.05E-03
RMI1_g6195.t2	RMI1	36	0	1.97E-02
MSTRG.16557.1	RMND5B	838	0	2.96E-08
MSTRG.16557.2	RMND5B	206.5	953.5	1.29E-02
RNAS4_g12177.t1	RNASE4	68	0	3.20E-03
MSTRG.1773.2	RNASEH1	68	0	1.66E-03
RNK_g3750.t1	RNASEK	45.5	0	6.27E-03
RN5A_g6422.t1	RNASEL	169	0	6.17E-05
R113A_g21698.t2	RNF113A	0	38	1.99E-02
RN114_g8746.t1	RNF114	1634	0	3.15E-07
RN115_g6890.t1	RNF115	292.5	0	4.38E-06
RN121_g19729.t1	RNF121	74	0	1.24E-03
MSTRG.19069.2	RNF121	1263.5	298.5	2.41E-02
TBC9B_g2921.t1	RNF138	8.5	295	8.24E-07
MEP1B_g2922.t1	RNF138	32	0	2.49E-02
MSTRG.8058.2	RNF141	87.5	0	5.23E-04
R144B_g2168.t1	RNF144B	81	0	1.62E-03
RN166_g13257.t1	RNF166	619.5	0	1.67E-05
RN167_g3767.t1	RNF167	207	0	1.41E-05
RN208_g11366.t1	RNF208	85.5	0	1.53E-03
MSTRG.4764.3	RNF213	770.5	0	4.03E-07
MSTRG.18005.2	RNF215	63	0	1.86E-03
MSTRG.7661.4	RNF223	362.5	1.5	1.83E-04

RNF38_g11890.t1	RNF38	84	0	6.92E-04
RNF39_g2393.t1	RNF39	0	51.5	1.75E-03
RNF43_g4066.t1	RNF43	74	0	1.05E-03
MSTRG.16526.7	RNF44	0	127	1.53E-02
CMTR1_g2589.t1	RNF8	164.5	0	1.93E-04
MSTRG.4263.2	RNFT1	342.5	0	1.23E-06
AMPB_g15733.t1	RNPEP	1091	0	2.28E-08
MSTRG.15064.5	RNPEP	204.5	0	2.32E-05
MSTRG.15064.8	RNPEP	63.5	0	3.96E-03
MSTRG.15064.4	RNPEP	103.5	492.5	3.08E-02
MSTRG.15286.2	RNPEPL1	208.5	0	5.63E-05
DUS28_g15938.t1	RNPEPL1	736	94	5.33E-02
RO60_g15787.t1	RO60	2264.5	49.5	1.69E-06
MSTRG.11069.1	ROBO1	59.5	0	2.09E-02
ROCK2_g1625.t1	ROCK2	27.5	0	3.77E-02
ROM1_g13914.t2	ROM1	50.5	0	3.70E-02
ROMO1_g8607.t1	ROMO1	68	595	3.95E-03
TRPV4_g14356.t1	RP2	56	0	2.77E-03
MSTRG.328.2	RP9	40.5	0	9.60E-03
MSTRG.15487.3	RPE	89.5	0	2.98E-02
RPGR1_g12157.t1	RPGRIP1	27	0	3.81E-02
RL10_g18109.t1	RPL10	76	0	9.48E-04
RL10_g1605.t1	RPL10	521	50	2.33E-03
RL10_g21903.t1	RPL10	1069.5	105	2.79E-03
MSTRG.7967.2	RPL11	53	1376	3.38E-02
RL12_g11561.t1	RPL12	1993.5	223	1.12E-03
RL13_g13274.t2	RPL13	1491	117	8.60E-05
RL13_g13274.t1	RPL13	1910.5	256.5	2.36E-02
RL14_g18171.t1	RPL14	1123	151.5	4.39E-02
MSTRG.17525.1	RPL15	2040.5	0	3.10E-04
RL17_g15864.t1	RPL17	774.5	82.5	6.17E-03
RL18A_g5809.t1	RPL18A	537	72	4.94E-02
RL19_g7471.t1	RPL19	1645	223	3.02E-02
RL21_g15268.t1	RPL21	610.5	55.5	3.08E-03
RL21_g1093.t1	RPL21	411.5	24.5	6.25E-03
RL21_g1199.t1	RPL21	730.5	58	1.62E-02
RL22_g7686.t1	RPL22	1703	321	2.89E-02
RL22L_g3198.t1	RPL22L1	1064.5	97.5	4.11E-02
RL23A_g3929.t1	RPL23A	2115.5	218.5	2.85E-03

RL23A_g700.t1	RPL23A	298.5	28	6.05E-03
MSTRG.3723.1	RPL24	875.5	55	7.32E-04
RL27A_g18772.t1	RPL27A	2323.5	283.5	1.65E-02
RL29_g18375.t1	RPL29	2167.5	123.5	8.04E-03
RL31_g17903.t1	RPL31	1584.5	170.5	3.32E-03
RL34_g1719.t1	RPL34	1186	92.5	1.41E-02
RL36_g13141.t1	RPL36	58.5	0	5.71E-03
RL36A_g21579.t1	RPL36A	1284.5	123	1.63E-02
RL36A_g6002.t1	RPL36A	1987	183.5	2.67E-02
RL36A_g20920.t1	RPL36A	1487.5	134.5	3.02E-02
RL37P_g20531.t1	RPL37A	1722	188	9.17E-04
RL37P_g16132.t1	RPL37A	12558.5	1246.5	4.59E-03
RL3L_g10740.t1	RPL3L	1519.5	258	3.57E-02
RL4_g12590.t1	RPL4	596	53	4.34E-03
RL4_g16694.t1	RPL4	672	98	4.67E-03
MSTRG.14724.3	RPL6	8466	0	4.13E-12
RL7A_g1136.t1	RPL7A	43.5	3	2.56E-02
MSTRG.8673.1	RPN2	2906	0	1.17E-06
TM45A_g22425.t1	RPP40	26.5	0	3.98E-02
RPRD2_g6845.t1	RPRD2	57.5	0	3.53E-03
RS13_g20077.t1	RPS13	16501.5	2784.5	4.47E-02
RS27_g6744.t1	RPS27	27.5	0	4.68E-02
RS3_g19680.t1	RPS3	47	0	5.46E-03
MFS12_g14269.t1	RPS5	63	0	2.86E-03
RS5_g14268.t1	RPS5	31.5	0	2.67E-02
RS6_g6045.t1	RPS6	56.5	0	3.65E-03
KS6A4_g13981.t1	RPS6KA4	771	139	4.30E-02
KS6A6_g21531.t1	RPS6KA6	69	0	1.20E-03
RS7_g1670.t1	RPS7	53	0	5.90E-03
RPTOR_g4633.t1	RPTOR	72	0	1.30E-03
MSTRG.18642.3	RPUSD4	101.5	0	6.75E-04
MSTRG.12857.1	RRAD	821	179.5	2.94E-02
RRAGC_g8108.t1	RRAGC	56.5	0	3.13E-03
MSTRG.2306.2	RREB1	348.5	0	1.23E-06
MSTRG.2306.1	RREB1	445.5	1350.5	4.74E-02
RIR1_g19740.t1	RRM1	750	76	3.31E-02
RIR2B_g22288.t1	RRM2B	262	11	1.87E-02
MSTRG.4341.2	RSAD1	145	0	4.42E-05
MSTRG.4341.3	RSAD1	43.5	0	9.61E-03

MSTRG.6949.3	RSBN1	216	0	1.85E-05
RL1D1_g10593.t1	RSL1D1	709.5	77	4.49E-03
RSH4A_g7386.t1	RSPH4A	654.5	0	1.25E-07
RSH6A_g14694.t1	RSPH6A	247	0	1.61E-05
RSPH9_g2677.t1	RSPH9	8	1168	1.64E-04
MSTRG.9019.2	RSPO2	81.5	0	2.38E-03
MSTRG.15909.3	RTBDN	105.5	0	1.84E-04
MSTRG.8864.3	RTEL1	907	0	1.18E-06
RTN1_g9615.t1	RTN1	43	0	7.93E-03
RTN3_g13954.t1	RTN3	27.5	0	3.38E-02
MSTRG.1447.1	RTN4	111	0	1.69E-04
MSTRG.3295.1	RTTN	138	0	5.51E-05
MSTRG.3295.3	RTTN	120.5	1	3.20E-02
MSTRG.1015.2	RUBCNL	76	0	2.21E-03
MSTRG.1015.3	RUBCNL	45	0	8.49E-03
MSTRG.19658.4	RUFY3	492.5	1	3.67E-05
MTG8_g8921.t1	RUNX1T1	36	0	1.78E-02
RUSC2_g11924.t1	RUSC2	26	0	4.89E-02
RXRA_g11431.t1	RXRA	45	0	9.94E-03
MSTRG.6800.1	S100A10	75.5	0	1.86E-03
S10AA_g6801.t1	S100A10	28.5	0	3.32E-02
MSTRG.6799.1	S100A11	117	1.5	1.65E-03
MSTRG.6797.2	S100A13	154.5	0	3.90E-05
MSTRG.6794.1	S100A16	28.5	0	3.05E-02
S10A6_g6762.t1	S100A6	48	0	5.03E-03
S12A2_g14193.t1	S12A2_g14193.t1	90	0	4.19E-04
MSTRG.10766.1	S1PR2	81.5	0	1.79E-02
S26A9_g6279.t1	S26A9_g6279.t1	953.5	0	1.78E-08
S39A6_g5556.t1	S39A6_g5556.t1	29	0	2.91E-02
S4A5_g1236.t1	S4A5_g1236.t1	29	0	3.07E-02
MSTRG.1177.2	SACS	105.5	0	1.76E-03
SAE1_g14660.t1	SAE1	1	508	3.20E-02
SALL1_g12921.t1	SALL1	30	0	2.64E-02
SAM12_g9037.t1	SAM12_g9037.t1	27.5	0	3.56E-02
MSTRG.16627.2	SAMD1	85	0	3.13E-02
SAMD9_g540.t2	SAMD9	32	0	2.40E-02
MSTRG.16252.1	SAR1B	827.5	62	6.27E-05
MSTRG.16252.2	SAR1B	811	2402.5	5.29E-02
SAT1_g21233.t1	SAT1	2602.5	12534.5	6.09E-03

SATB2_g20778.t1	SATB2	54.5	0	3.91E-03
MSTRG.16865.1	SAXO5	36.5	0	1.70E-02
SBNO1_g15250.t1	SBNO1	158.5	0	5.59E-03
SBSPO_g22253.t1	SBSPO_g22253.t1	0	217	2.35E-05
SC5AC_g14259.t1	SC5AC_g14259.t1	156	0	4.32E-05
MSTRG.13973.3	SCAF1	34	0	1.88E-02
MSTRG.3942.1	SCARNA21	536.5	49	1.34E-02
SCFD2_g20426.t1	SCFD2	14.5	95.5	7.55E-03
SCLY_g15959.t1	SCLY	47	0	5.66E-03
MSTRG.8211.6	SCMH1	197	0	3.97E-04
SCRG1_g1950.t1	SCRG1	10.5	610	2.41E-07
SCRIB_g9176.t1	SCRIB	3.5	211	2.95E-02
MSTRG.6446.3	SCYL3	100	0	1.12E-03
MSTRG.906.1	SDR42E1	207.5	42	4.94E-02
SDHL_g15334.t1	SDS	1686.5	227.5	6.78E-03
SDSL_g15335.t1	SDSL	188.5	0	2.13E-05
SC11A_g12847.t1	SEC11A	1545	194	6.03E-03
MSTRG.4722.1	SEC14L1	59	0	2.73E-03
MSTRG.6901.2	SEC22B	259	0	1.53E-05
MSTRG.17955.2	SEC23IP	36	397	1.93E-02
MSTRG.16254.2	SEC24A	0	1150	1.06E-05
SC24C_g19011.t1	SEC24C	224	0	2.18E-05
MSTRG.5934.1	SECISBP2	1164.5	0	8.87E-09
SEBP2_g5928.t2	SECISBP2	49.5	0	4.57E-03
SBP2L_g12453.t1	SECISBP2L	46	0	2.21E-02
MSTRG.6439.1	SELP	1362.5	160	1.03E-03
MSTRG.17727.2	SEMA3B	223	0	1.20E-05
MSTRG.17765.1	SEMA3G	96	0	3.26E-04
SEM5B_g3391.t2	SEMA5B	34.5	0	1.68E-02
SEM6C_g6827.t1	SEMA6C	229	0	1.73E-05
MSTRG.3510.3	SENP2	186.5	0	2.02E-05
MSTRG.3726.1	SENP7	86.5	0	6.30E-04
SENP7_g3514.t1	SENP7	289.5	2.5	1.03E-02
SENP8_g12623.t1	SENP8	281	25.5	2.88E-02
SEP14_g10364.t1	SEP14_g10364.t1	89.5	0	5.50E-04
MSTRG.14496.2	SEPHS1	1453.5	0	4.32E-09
MSTRG.14973.4	SEPTIN5	154	0	3.81E-05
SEPT5_g15635.t1	SEPTIN5	30	0	4.76E-02
SEPT6_g21696.t1	SEPTIN6	44.5	0	7.04E-03

SEPT7_g374.t1	SEPTIN7	107.5	0	2.98E-04
MSTRG.16223.1	SEPTIN8	24.5	0	4.77E-02
SERC2_g8002.t1	SERINC2	1703.5	463	5.17E-02
SERP1_g17937.t1	SERP1	26.5	0	4.73E-02
MSTRG.2278.1	SERPINB1	3.5	58	4.43E-03
MSTRG.3279.1	SERPINB7	2.5	125	4.58E-02
MSTRG.1058.1	SERPINE3	313	0	1.12E-04
SESN3_g19572.t1	SESN3	860	157.5	1.10E-02
MSTRG.20074.2	SESTD1	582	9	1.41E-02
SESD1_g20854.t1	SESTD1	28.5	0	5.35E-02
SETBP_g2963.t1	SETBP1	50.5	0	9.44E-03
MSTRG.10459.3	SETD1A	0	29.5	3.03E-02
MSTRG.17243.2	SETD5	813	0	9.41E-08
MSTRG.17243.4	SETD5	281.5	0	4.22E-06
SETD7_g1818.t1	SETD7	58	0	2.66E-03
MSTRG.5695.1	SETD9	103	0	2.46E-04
MSTRG.5695.2	SETD9	9	105.5	4.29E-03
SETB1_g6836.t1	SETDB1	846	0	1.25E-07
MSTRG.1045.1	SETDB2	751.5	42.5	1.65E-06
MSTRG.1045.4	SETDB2	69	0	1.61E-03
SF3A3_g8103.t1	SF3A3	78	0	1.45E-03
SF3B3_g13130.t1	SF3B3	40	0	1.16E-02
MSTRG.8139.3	SFPQ	7971	0	3.04E-07
MSTRG.623.1	SFRP4	2329.5	322.5	6.29E-03
SFRP4_g661.t1	SFRP4	67	534	1.37E-02
SFRP5_g18788.t1	SFRP5	1030.5	3930	1.79E-02
MSTRG.16513.2	SFXN1	467	0	1.00E-06
MSTRG.13224.1	SGK3	156	0	2.48E-05
MSTRG.13224.2	SGK3	594	12.5	4.04E-02
MSTRG.19956.3	SGO2	70	0	4.60E-03
MSTRG.4758.2	SGSH	116.5	712	2.26E-03
SPHM_g4627.t1	SGSH	37.5	0	1.27E-02
SH2D5_g7856.t1	SH2D5	66	0	1.83E-03
SH3L3_g7929.t1	SH3BGRL3	81	0	6.20E-04
3BP5_g18058.t1	SH3BP5	26	0	4.34E-02
SH3R1_g1939.t1	SH3RF1	61.5	0	2.57E-03
SHC1_g6727.t3	SHC1	43.5	0	7.66E-03
SHP1L_g6427.t1	SHCBP1L	27.5	0	4.02E-02
MSTRG.10029.1	SHISA8	73	0	1.14E-03

SHKB1_g14827.t1	SHKBP1	122	0	1.91E-04
MSTRG.18578.2	SHLD2	162.5	0	4.19E-05
SHPK_g3817.t1	SHPK	797.5	0	3.51E-08
MSTRG.15546.1	SHPRH	1721.5	255.5	1.61E-03
SIG10_g14504.t1	SIGLEC10	168	0	2.39E-05
SIGL5_g14495.t1	SIGLEC5	58	0	3.31E-03
MSTRG.5959.2	SIGMAR1	60.5	0	4.50E-03
SIM1_g7473.t1	SIM1	29.5	0	2.95E-02
MSTRG.5859.2	SIN3B	772.5	0	8.01E-07
MSTRG.5859.3	SIN3B	199.5	0	1.67E-03
MSTRG.9553.5	SIPA1L1	638.5	0	7.05E-06
MSTRG.9553.4	SIPA1L1	153.5	0	4.82E-03
SI1L2_g19073.t1	SIPA1L2	2974.5	1	5.57E-03
SI1L3_g14890.t1	SIPA1L3	948	0	2.12E-08
MSTRG.14254.4	SIPA1L3	599	0	2.23E-07
MSTRG.14254.3	SIPA1L3	23.5	481	9.94E-07
SHPS1_g8504.t1	SIRPA	44.5	0	1.37E-02
MSTRG.14228.2	SIRT2	129	0	8.45E-05
MSTRG.16055.2	SKIC3	1202.5	0	1.20E-08
SKOR1_g12599.t1	SKOR1	28.5	0	3.14E-02
SKP1_g16816.t1	SKP1	243.5	0	1.04E-05
SLAP1_g9103.t1	SLA	66.5	0	1.58E-03
SLAI1_g895.t1	SLAIN1	38	0	1.36E-02
MSTRG.15444.1	SLC11A1	35.5	0	1.83E-02
S12A3_g12962.t1	SLC12A3	180.5	0	3.95E-03
S12A5_g8714.t1	SLC12A5	35.5	0	2.38E-02
S12A8_g3377.t1	SLC12A8	334	4.5	3.31E-03
MOT1_g6969.t2	SLC16A1	32	0	4.09E-02
MSTRG.10098.1	SLC16A11	934.5	169.5	4.62E-02
MSTRG.4666.3	SLC16A5	86.5	0	9.14E-04
MSTRG.4666.2	SLC16A5	260	2	4.17E-03
MOT9_g18912.t1	SLC16A9	28	0	3.37E-02
S17A5_g7585.t1	SLC17A5	35	0	2.31E-02
S19A3_g16048.t1	SLC19A3	34	0	1.91E-02
EAA4_g5882.t1	SLC1A6	73	0	4.11E-03
MSTRG.15734.1	SLC20A1	108	0	1.98E-04
S20A2_g11323.t1	SLC20A2	201.5	0	1.12E-02
MSTRG.14103.1	SLC22A12	241.5	0	8.62E-06
S22AD_g18147.t1	SLC22A13	50.5	0	7.62E-03

DIC_g4655.t1	SLC25A10	381.5	0	7.84E-07
UCP5_g21746.t1	SLC25A14	1	31	1.03E-02
CE290_g3154.t1	SLC25A17	922.5	0	3.14E-08
MSTRG.10000.1	SLC25A17	36.5	0	1.73E-02
MCAT_g18291.t1	SLC25A20	203.5	0	2.57E-05
MSTRG.11545.2	SLC25A25	119	1181	9.18E-06
MSTRG.1009.3	SLC25A30	29	0	3.19E-02
S2533_g7724.t1	SLC25A33	417	0	5.99E-07
S2535_g3684.t1	SLC25A35	476	59	1.14E-02
S2536_g17989.t1	SLC25A36	82	0	1.80E-02
S26A1_g20182.t1	SLC26A1	82	0	8.27E-03
S26A3_g653.t1	SLC26A3	885.5	0	2.30E-08
S26A5_g628.t1	SLC26A5	135	0	6.49E-05
S26A8_g2564.t1	SLC26A8	42.5	0	4.99E-02
MSTRG.5832.4	SLC27A1	110	0	1.51E-03
MSTRG.6286.2	SLC28A3	0	33.5	1.02E-02
MSTRG.18360.1	SLC29A3	321	0	1.78E-06
GTR10_g8724.t1	SLC2A10	220	0	8.09E-06
GTR11_g15542.t1	SLC2A11	57.5	0	2.46E-03
GTR3_g5340.t1	SLC2A3	17.5	611	4.34E-10
GTR9_g20276.t3	SLC2A9	812.5	0	3.86E-08
COPT2_g11732.t1	SLC31A2	336.5	0	4.60E-06
S35A1_g7526.t1	SLC35A1	169.5	0	2.22E-03
S35A4_g16894.t2	SLC35A4	26	0	4.89E-02
MSTRG.6327.1	SLC35D2	132.5	0	6.73E-05
S38AA_g4641.t1	SLC38A10	41.5	0	8.77E-03
MSTRG.6785.3	SLC39A1	338	0	2.17E-06
MSTRG.13399.2	SLC39A13	206.5	0	3.66E-05
MSTRG.6392.3	SLC41A1	0	1187.5	9.03E-06
MSTRG.4062.2	SLC43A2	1172	0	3.62E-06
CTL2_g17342.t1	SLC44A2	100.5	0	2.40E-04
CTL3_g7087.t1	SLC44A3	85	0	6.49E-04
S45A1_g7714.t1	SLC45A1	190	0	7.14E-03
PCFT_g3943.t1	SLC46A1	40.5	0	1.93E-02
DIRC2_g3392.t2	SLC49A4	4	109.5	6.94E-05
MSTRG.1305.4	SLC4A5	136	0	5.88E-05
S4A10_g18099.t1	SLC4A7	51	0	5.97E-03
MSTRG.9197.3	SLC52A2	710.5	0	1.75E-07
S52A1_g9203.t1	SLC52A2	29	0	2.95E-02

SC5AA_g3603.t1	SLC5A10	0	509.5	1.06E-05
SC5AC_g20134.t1	SLC5A12	81.5	0	2.78E-03
RT06_g10970.t1	SLC5A3	47.5	0	5.59E-03
SC5A3_g10971.t1	SLC5A3	29	0	2.95E-02
MSTRG.1643.2	SLC5A6	44.5	0	6.82E-03
SC5A6_g1528.t1	SLC5A6	25	0	4.49E-02
MSTRG.7911.2	SLC66A1	229	0	1.34E-05
MSTRG.3365.1	SLC66A1	32.5	0	2.19E-02
MSTRG.17139.1	SLC6A6	6.5	52.5	2.59E-02
MSTRG.17129.1	SLC6A6	2.5	28	3.20E-02
MSTRG.18349.2	SLC7A14	1968	0	7.64E-10
MSTRG.18349.1	SLC7A14	558.5	2208	2.71E-02
CTR4_g15602.t1	SLC7A4	27.5	0	3.77E-02
S7A6O_g13078.t1	SLC7A6OS	28.5	0	5.45E-02
LAT2_g12105.t1	SLC7A8	33.5	0	1.91E-02
SL9A7_g21320.t1	SLC9A7	393.5	0	1.08E-03
MSTRG.19862.1	SLC9B1	77	0	9.71E-04
SO3A1_g12790.t1	SLCO3A1	139	0	3.74E-04
SLIT3_g17079.t1	SLIT3	1700	0	3.22E-09
SLK_g18698.t1	SLK	114	0	2.23E-04
MSTRG.17817.6	SLMAP	304	0	1.76E-02
SLX1_g10444.t1	SLX1A	127	0	1.09E-04
MSTRG.10716.1	SLX4	103.5	0	2.14E-04
SLX4_g10664.t2	SLX4	57.5	0	4.82E-03
MSTRG.12421.2	SMAD3	550.5	0	1.31E-06
MSTRG.5067.2	SMAGP	47	0	5.91E-03
MSTRG.16732.4	SMARCA4	879	0	7.13E-08
MSTRG.16732.3	SMARCA4	720	0	1.86E-07
SMRCD_g20645.t1	SMARCAD1	102.5	0	1.87E-03
MSTRG.15455.2	SMARCAL1	30	0	3.81E-02
MSTRG.4979.1	SMARCC2	1005	0	2.29E-08
CA074_g6498.t2	SMARCC2	24	0	4.99E-02
MSTRG.5087.4	SMARCD1	535	0	2.32E-04
MSTRG.3352.3	SMC4	356	46.5	1.50E-03
MSTRG.1710.1	SMC6	170.5	0	2.24E-05
SMCO3_g5259.t1	SMCO3	229.5	0	1.73E-05
MSTRG.6535.2	SMG7	403.5	0	8.55E-06
SIL2B_g21786.t1	SMIM10	223.5	0	1.19E-03
MSTRG.8132.2	SMIM12	100.5	0	1.95E-02

MSTRG.18033.3	SMNDC1	134.5	0	7.63E-05
ASM_g19963.t1	SMPD1	27	0	4.35E-02
MSTRG.14952.2	SMPD4	6	498.5	1.62E-02
ASM3A_g7360.t1	SMPDL3A	566	0	4.44E-07
SNPC4_g11415.t2	SNAPC4	517.5	0	2.95E-07
ELK4_g6273.t1	SNAPC4	35	0	1.74E-02
MSTRG.10664.1	SNN	29.5	0	2.78E-02
MSTRG.17618.1	SNRK	487.5	0	4.22E-06
MSTRG.12592.1	SNRPA1	90	0	3.72E-04
RU2B_g8406.t1	SNRPB2	113	0	1.67E-04
SMD3_g15553.t1	SNRPD3	25.5	0	4.22E-02
SNTG1_g13481.t2	SNTG1	70	0	1.63E-03
NH2L1_g9959.t1	SNU13	82.5	0	5.59E-03
MSTRG.9421.3	SNW1	239	0	1.04E-02
SNW1_g9438.t1	SNW1	2	65	4.27E-02
MSTRG.7575.2	SNX14	573.5	112	3.11E-02
SNX2_g16752.t1	SNX2	35	0	2.76E-02
MSTRG.16167.2	SNX24	57	0	1.14E-02
SNX24_g16753.t1	SNX24	39.5	0	1.66E-02
SNX27_g6812.t1	SNX27	34.5	0	1.72E-02
SNX8_g10099.t1	SNX8	119	0	1.27E-04
SO1C1_g3108.t1	SO1C1_g3108.t1	63	0	4.06E-03
MSTRG.13716.3	SOCS3	201.5	0	1.93E-05
SOCS6_g3078.t1	SOCS6	2	227	1.57E-02
SOCS7_g4187.t1	SOCS7	1.5	180.5	8.72E-03
MSTRG.19452.1	SOD3	307.5	0	2.86E-06
MSTRG.11185.3	SORBS2	235.5	0	7.62E-06
MSTRG.7010.3	SORT1	105	0	2.43E-04
MSTRG.1544.3	SOS1	578.5	0	7.60E-06
SWAHA_g16804.t1	SOWAHA	273.5	0	1.19E-05
SOX30_g173.t1	SOX30_g173.t1	457	3503.5	1.59E-02
SP100_g16033.t1	SP100	68.5	0	1.85E-03
MSTRG.15345.1	SP140	26	0	4.07E-02
SP14L_g16034.t1	SP140L	47	0	5.57E-03
SPA11_g9362.t4	SPA11_g9362.t4	1582.5	9	1.57E-02
SP17_g19280.t1	SPA17	594.5	0	2.93E-07
SACA9_g11464.t1	SPACA9	201.5	0	1.39E-05
MSTRG.10301.1	SPACDR	681	0	7.33E-08
SPAG1_g8971.t1	SPAG1	249	0	4.85E-06

MSTRG.4131.2	SPAG5	1034	0	4.46E-06
SPAT6_g8226.t1	SPAT6_g8226.t1	27	0	3.61E-02
SPA24_g16875.t1	SPATA24	62.5	0	1.84E-03
SPA2L_g13279.t1	SPATA2L	997	0	2.18E-08
S31D1_g6150.t1	SPATA31D1	94.5	0	8.41E-04
MSTRG.6204.1	SPATA31D1	70	0	1.11E-03
MSTRG.5093.3	SPATS2	0	222.5	4.46E-06
SPS2L_g20772.t1	SPATS2L	121.5	3.5	4.86E-02
MSTRG.14909.1	SPECC1L	1278.5	0	1.13E-08
CYTSA_g15557.t1	SPECC1L	746.5	0	4.59E-08
SPEF2_g5578.t1	SPEF2	64	219	4.84E-02
SPG21_g12567.t1	SPG21	52.5	0	5.38E-03
SPG7_g13273.t2	SPG7	28.5	0	3.43E-02
SPHK2_g14619.t1	SPHK2	629	0	8.49E-06
MSTRG.15353.1	SPHKAP	316	1399.5	3.08E-03
SPIB_g14536.t1	SPIB	268	0	9.21E-06
SPIN2_g21404.t1	SPIN2B	8	78.5	1.04E-02
SPIN4_g21430.t2	SPIN4	74	1.5	4.30E-02
MSTRG.13522.1	SPINDOC	344	0	1.69E-06
MSTRG.21644.2	SPINT3	257.5	913.5	4.28E-02
SPNS2_g3803.t1	SPNS2	3620.5	356.5	2.29E-05
MSTRG.16266.2	SPOCK1	126.5	0	4.82E-04
NUCG_g11521.t1	SPOUT1	515.5	0	8.68E-07
MSTRG.19773.1	SPP1	134	0	7.23E-05
SPPL3_g15384.t1	SPPL3	163.5	0	2.14E-03
SPRE2_g1320.t1	SPRED2	27	0	4.83E-02
GSTK1_g145.t1	SPRING1	111.5	0	3.78E-04
MSTRG.5051.2	SPRYD3	121.5	0	1.50E-04
MSTRG.7793.1	SPSB1	318	0	1.01E-04
MSTRG.10792.1	SPSB3	456.5	0	9.12E-06
MSTRG.11529.2	SPTAN1	3056.5	7	1.35E-03
MSTRG.8676.2	SRC	370.5	0	3.89E-05
SRCN1_g4189.t1	SRCIN1	32	0	3.64E-02
MSTRG.5738.1	SREK1	314	0	7.07E-05
MSTRG.16157.1	SRFBP1	34.5	0	1.82E-02
MSTRG.6393.2	SRGAP2	212.5	0	9.80E-06
SPEE_g7740.t1	SRM	181.5	0	2.08E-05
SRP68_g4562.t1	SRP68	365	0	1.18E-05
MSTRG.7992.4	SRRM1	455.5	0	6.78E-07

MSTRG.7992.7	SRRM1	28	258	1.48E-03
MSTRG.7992.2	SRRM1	409.5	77.5	1.87E-02
SRRM4_g15359.t1	SRRM4	58.5	0	3.29E-03
MSTRG.10320.7	SRRT	244	0	6.74E-06
SRSF2_g4584.t1	SRSF2	31	0	2.95E-02
SRSF3_g2574.t1	SRSF3	86.5	0	5.37E-04
SRSF4_g7983.t1	SRSF4	26.5	0	4.34E-02
LMBL1_g8657.t1	SRSF6	405	45	1.63E-03
S18L2_g18186.t1	SS18L2	32	0	3.20E-02
SSBP2_g16620.t1	SSBP2_g16620.t1	51.5	0	4.51E-03
SSH3_g14092.t1	SSH3	71.5	0	1.20E-03
SSR1_g12000.t1	SSR1_g12000.t1	173.5	0	2.03E-05
SSRB_g6694.t1	SSR2	1145.5	302.5	5.43E-02
MSTRG.7963.1	SSTR3	7.5	88.5	7.67E-04
MSTRG.7172.3	SSX2IP	534	0	3.57E-07
IFFO1_g7152.t1	SSX2IP	44.5	0	7.73E-03
ST2A1_g14645.t1	ST2A1_g14645.t1	474	0	3.12E-07
SIA4A_g9108.t1	ST3GAL1	370	0	1.53E-06
SIA4B_g13133.t1	ST3GAL2	151.5	0	1.06E-04
MSTRG.8357.2	ST3GAL3	321.5	0	1.65E-06
MSTRG.8357.1	ST3GAL3	1612.5	116	2.18E-02
MSTRG.8357.3	ST3GAL3	401	1519.5	4.73E-02
MSTRG.18630.2	ST3GAL4	224	10	1.06E-05
MSTRG.3753.1	ST3GAL6	1142	223	3.25E-02
SIAT1_g3299.t2	ST6GAL1	28.5	0	3.32E-02
SIA7A_g4580.t2	ST6GALNAC3	30	0	4.01E-02
MSTRG.1076.1	ST6GALNAC5	63.5	0	1.78E-03
MSTRG.280.2	ST7	292.5	0	9.45E-06
STAB1_g18389.t2	STAB1	18	166.5	7.49E-03
MSTRG.17566.2	STAC	54	0	3.35E-03
MSTRG.20950.1	STAG2	722	0	7.53E-08
MSTRG.20950.5	STAG2	2101.5	151	1.04E-04
MSTRG.20950.3	STAG2	75.5	0	2.34E-02
STAR_g11282.t1	STAR	400.5	0	6.45E-07
MSTRG.1121.1	STARD13	58.5	301.5	5.19E-03
STR3N_g663.t1	STARD3NL	109	0	2.30E-04
STAR6_g3012.t1	STARD6	141.5	0	2.38E-04
MSTRG.19579.1	STARD9	311.5	0	2.22E-06
MSTRG.19579.4	STARD9	181	0	1.86E-05

MSTRG.19579.5	STARD9	123.5	0	1.08E-04
MSTRG.19579.6	STARD9	46.5	0	7.96E-03
MSTRG.20015.2	STAT1	958.5	0	1.90E-08
MSTRG.20015.4	STAT1	0	371	1.38E-05
STAT3_g4312.t1	STAT3	169	0	3.93E-05
MSTRG.4464.2	STAT5A	41.5	882	8.77E-09
STAT6_g4797.t2	STAT6	1104.5	53.5	3.35E-03
MSTRG.8765.4	STAU1	1294	54	2.06E-02
MSTRG.19071.2	STIM1	129	467	4.58E-02
MSTRG.16890.3	STK11	254	0	4.23E-05
MSTRG.15422.3	STK16	107.5	0	2.82E-04
MSTRG.835.2	STK24	280.5	0	3.94E-05
STK24_g850.t1	STK24	70.5	0	1.21E-03
STK36_g16109.t1	STK36	39.5	0	1.53E-02
MSTRG.5226.2	STK38L	380	0	8.02E-07
MSTRG.10866.1	STMND1	134.5	0	5.37E-04
STN1_g18699.t1	STN1	31.5	0	2.24E-02
MSTRG.12456.4	STOML1	250	0	7.53E-06
MSTRG.12456.3	STOML1	33	344	4.21E-03
MSTRG.19820.4	STPG2	65	0	5.76E-03
SHPS1_g20230.t1	STRA6	288	0	7.44E-06
MSTRG.2725.1	STRA6	333.5	1689.5	9.28E-03
STRA8_g232.t1	STRA8	43.5	0	7.83E-03
MSTRG.4573.5	STRADA	0	204	3.59E-05
MSTRG.4573.2	STRADA	634	130.5	2.49E-02
MSTRG.1576.1	STRN	33	0	1.93E-02
PZRN3_g21155.t1	STS	102	0	2.66E-03
MSTRG.17544.2	STT3B	0	1166.5	5.76E-06
STX10_g17266.t1	STX10	120	404	4.00E-02
STX3_g13843.t1	STX3	50.5	0	4.13E-03
MSTRG.13510.7	STX5	105.5	13	5.22E-02
TCP4_g5562.t1	SUB1	24.5	0	4.73E-02
SUCB1_g985.t1	SUCLA2	34.5	0	1.88E-02
SUCA_g1191.t1	SUCLG1	49.5	0	7.88E-03
MSTRG.13217.3	SULF1	299.5	0	2.84E-05
MSTRG.13217.4	SULF1	354	39	4.20E-02
SULF2_g8729.t1	SULF2	61.5	0	2.40E-03
MSTRG.10507.3	SULT1C4	51.5	0	6.58E-03
MSTRG.10507.6	SULT1C4	216	4.5	1.28E-02

MSTRG.21298.2	SUMO1	4474	0	1.66E-06
SP16H_g12156.t1	SUPT16H	167	0	2.38E-03
MSTRG.4123.4	SUPT6H	1318.5	0	3.16E-07
MSTRG.4123.3	SUPT6H	265.5	0	1.14E-05
ST65G_g1505.t1	SUPT7L	583.5	0	1.54E-06
MSTRG.1624.2	SUPT7L	117.5	0	1.13E-04
SURF2_g11452.t1	SURF2	21.5	1023	3.86E-08
SURF4_g11451.t1	SURF4	143.5	0	4.99E-05
MSTRG.11449.2	SURF6	140	18.5	5.72E-03
MSTRG.9568.2	SUSD6	736.5	0	6.61E-07
SV2C_g16577.t2	SV2C	38	0	1.71E-02
MSTRG.8368.1	SVBP	215.5	11	3.48E-03
MSTRG.14078.2	SYMPK	1	823.5	1.85E-10
SYNE1_g16248.t1	SYNE1	386.5	7	1.48E-02
MSTRG.9643.4	SYNE2	2547	0	4.03E-08
SYGP1_g2526.t1	SYNGAP1	39.5	0	1.98E-02
MSTRG.2671.3	SYNGAP1	27.5	0	3.38E-02
MSTRG.12614.1	SYNM	148.5	1064	1.01E-03
MSTRG.1893.1	SYNPO2	299	54	1.25E-02
SYPH_g21362.t1	SYP	34	0	1.77E-02
SYRC_g17076.t1	SYRC_g17076.t1	112.5	0	3.09E-04
SYT15_g19177.t3	SYT15_g19177.t3	8531	1156.5	7.14E-03
MSTRG.19133.1	SYT9	401.5	0	8.68E-07
SYTL1_g7948.t2	SYTL1	24.5	0	4.73E-02
T131L_g11083.t1	T131L_g11083.t1	61.5	0	3.67E-02
MSTRG.15514.1	TAB2	2400.5	0	3.09E-10
MSTRG.15514.4	TAB2	433	0	7.06E-06
MSTRG.20505.3	TAB3	2653	80	8.14E-07
TKN1_g515.t1	TAC1	41.5	0	3.31E-02
TACC2_g18602.t1	TACC2	44	0	1.39E-02
MSTRG.19317.1	TACC3	3465	807.5	4.26E-02
NK1R_g1210.t1	TACR1	29	0	2.89E-02
MSTRG.17248.2	TADA3	751.5	0	4.85E-08
TADA3_g17859.t1	TADA3	44.5	0	1.41E-02
MSTRG.20719.1	TAF1	1206	0	1.26E-08
TAF1_g21477.t1	TAF1	412	0	6.18E-07
MSTRG.19127.1	TAF10	86.5	440	9.42E-03
MSTRG.19127.2	TAF10	485	37	1.68E-02
MSTRG.13060.2	TAF1C	127	0	6.86E-03

MSTRG.18927.1	TAF1D	107.5	0	1.70E-04
MSTRG.18927.5	TAF1D	95	0	3.06E-04
MSTRG.18927.4	TAF1D	197	28	4.76E-03
MSTRG.18926.1	TAF1D	63	1	1.86E-02
MSTRG.14463.1	TAF3	196.5	0	2.06E-05
TAF4_g8833.t1	TAF4	31	0	2.35E-02
MSTRG.8832.1	TAF4	67.5	0	2.41E-02
TAF5_g18707.t1	TAF5	54	0	1.54E-02
MSTRG.20196.3	TANC1	2846	1.5	3.51E-08
TAOK1_g3913.t1	TAOK1	274.5	0	5.17E-06
TRBP2_g4962.t1	TARBP2	192.5	0	1.56E-05
MSTRG.7821.2	TARDBP	176	0	6.25E-05
MSTRG.7821.3	TARDBP	100.5	0	2.36E-04
SYTC_g5565.t1	TARS1	1267.5	0	2.24E-07
MSTRG.5581.1	TARS1	4110	719	2.83E-02
MSTRG.14456.2	TASOR2	121.5	0	2.11E-04
MSTRG.9085.2	TATDN1	33	0	2.65E-02
MSTRG.17204.2	TATDN2	323	0	1.59E-06
MSTRG.17204.3	TATDN2	254	0	4.51E-06
TAXB1_g421.t1	TAX1BP1	42.5	0	8.00E-03
MSTRG.10489.1	TBC1D10B	285	0	4.55E-06
TB10B_g10415.t1	TBC1D10B	38.5	0	3.25E-02
TBC12_g18830.t1	TBC1D12	4.5	128	4.45E-02
TBC14_g20241.t1	TBC1D14	134.5	0	6.50E-03
TBC15_g9680.t1	TBC1D15	60.5	0	2.71E-02
TBC16_g4622.t1	TBC1D16	1760	0	1.63E-09
TBC19_g20345.t1	TBC1D19	435.5	0	9.23E-06
TBD2B_g12706.t1	TBC1D2B	102	0	3.15E-03
TBC30_g4745.t1	TBC1D30	405	0	3.07E-06
MSTRG.2346.1	TBC1D7	84.5	0	8.00E-04
MSTRG.15821.2	TBC1D8	128.5	687	2.19E-02
TBCC1_g3289.t1	TBCCD1	516	120.5	5.24E-02
MSTRG.4900.1	TBK1	692	0	3.44E-07
MSTRG.21114.2	TBL1X	1810.5	0	2.60E-08
TBL1X_g21940.t1	TBL1X	637.5	0	2.41E-07
TBL2_g10312.t1	TBL2	577	0	4.49E-06
MSTRG.7314.2	TBPL1	76	0	1.37E-03
MSTRG.18660.2	TBRG1	172	0	3.46E-05
TBX21_g4181.t1	TBX21	36.5	0	2.60E-02

TBX3_g15340.t1	TBX3	28	0	4.54E-02
TCEA3_g7883.t2	TCEA3	92.5	0	1.94E-03
TCEA3_g7883.t1	TCEA3	48.5	0	1.05E-02
MSTRG.20846.1	TCEAL1	129	0	1.01E-04
TCAL4_g21600.t1	TCEAL4	38.5	1672.5	2.55E-02
MSTRG.16612.2	TCERG1	1186.5	223.5	1.56E-02
MSTRG.16612.1	TCERG1	586.5	5	1.68E-02
MSTRG.2588.1	TCF19	320	0	5.58E-06
MSTRG.10037.1	TCF20	640.5	0	2.35E-07
TCF25_g13284.t1	TCF25	74.5	347.5	3.78E-02
MSTRG.16912.3	TCF3	594	0	6.35E-07
MSTRG.16912.1	TCF3	9.5	503	5.11E-02
MSTRG.16237.1	TCF7	819	116.5	9.37E-04
MSTRG.18008.3	TCF7L2	323	2.5	6.66E-03
TCO1_g13846.t1	TCN1	3881	690	1.13E-02
TCPQM_g33.t1	TCPQM_g33.t1	198.5	0.5	3.97E-05
TCTA_g18314.t1	TCTA	38	0	1.59E-02
MSTRG.19359.2	TCTN3	326	57.5	1.49E-02
TDR10_g6735.t1	TDRD10	101	0	3.00E-04
TDRD3_g927.t1	TDRD3	349	0	2.15E-04
MSTRG.961.2	TDRD3	506	74	3.44E-02
TDRD5_g6397.t1	TDRD5	71.5	0	1.03E-02
MSTRG.13985.2	TEAD2	103	0	2.31E-04
TCPR1_g10162.t1	TECPR1	179	0	1.20E-04
TECRL_g20463.t1	TECRL	0	219	2.03E-05
TECTB_g18668.t1	TECTB	40.5	0	9.99E-03
MSTRG.9317.1	TEDC1	3364	552.5	3.33E-02
MSTRG.10015.2	TEF	28.5	0	3.09E-02
MSTRG.6019.1	TEK	3990.5	931	2.08E-02
TEN2_g17073.t1	TENM2	107	0	6.48E-04
MSTRG.5482.2	TENT4A	1171.5	0	1.04E-08
PAPD5_g12912.t1	TENT4B	0	441	1.18E-05
TET5A_g7553.t1	TENT5A	273	0	3.74E-06
MSTRG.7599.2	TENT5A	405.5	3308.5	3.35E-02
TET5D_g21523.t1	TENT5D	42.5	0	1.29E-02
TEP1_g12193.t2	TEP1	133	0	6.14E-04
MSTRG.4775.5	TEPSIN	207.5	0	4.99E-05
TERF1_g13381.t1	TERF1	298.5	0	1.76E-05
TE2IP_g13159.t1	TERF2IP	35.5	0	2.62E-02

MSTRG.282.2	TES	1598	216	2.87E-03
MSTRG.18321.3	TET1	316.5	0	1.25E-05
MSTRG.18321.1	TET1	1076	8388	5.92E-04
TET3_g1241.t1	TET3	126.5	0	7.37E-04
MSTRG.804.1	TEX30	41.5	0	1.49E-02
TEX44_g16019.t1	TEX44	609.5	0	1.52E-07
ECI2_g2093.t1	TEX56P	35.5	0	1.60E-02
TEX9_g12504.t1	TEX9_g12504.t1	37	0	1.77E-02
TRFE_g18033.t1	TF	181.5	0	1.71E-05
TF_g7089.t1	TF	30.5	0	2.56E-02
TF3C1_g10754.t1	TF3C1_g10754.t1	84	0	7.32E-04
MSTRG.3735.1	TFG	1275	174.5	2.55E-02
MSTRG.20045.1	TFPI	28.5	0	3.50E-02
TFPI2_g535.t1	TFPI2	45	0	8.49E-03
TGFA_g1279.t1	TGFA_g1279.t1	38	0	1.57E-02
TGFB1_g14806.t1	TGFB1	112	0	1.48E-04
MSTRG.15832.3	TGFBRAP1	282	0	1.39E-05
MSTRG.15832.2	TGFBRAP1	303.5	0	4.27E-04
TGS1_g13457.t1	TGS1	31	0	2.74E-02
THAP1_g11329.t1	THAP1	487	0	2.93E-07
P52K_g19671.t1	THAP12	94.5	0	1.18E-02
P52K_g2852.t1	THAP12	1095.5	277	3.97E-02
MSTRG.304.4	THAP5	733	0	7.36E-08
TSP4_g16608.t1	THBS4	28.5	0	3.38E-02
THNS1_g15168.t1	THNSL1	165.5	0	1.53E-04
MSTRG.14842.3	THOC5	892.5	0	2.96E-08
MSTRG.14842.4	THOC5	1174	0	9.35E-08
THSD1_g1027.t1	THSD1	31.5	714.5	5.41E-02
MSTRG.12013.4	THTPA	71.5	0	1.02E-03
THTPA_g12094.t1	THTPA	23.5	0	5.30E-02
THUM1_g20974.t1	THUM1_g20974.t1	626.5	0	4.71E-07
MSTRG.10578.1	THUMPD1	72.5	8	1.42E-02
THUM1_g10514.t1	THUMPD1	27.5	0	4.20E-02
THUM3_g17852.t1	THUMPD3	292.5	0	1.35E-05
MSTRG.1343.4	TIA1	52.5	0	4.66E-03
TIAM1_g11002.t1	TIAM1	69	0	3.12E-03
GULP1_g20826.t1	TIGD1	85	0	7.93E-04
TIGD1_g13152.t1	TIGD1	32	0	2.27E-02
BROMI_g21644.t1	TIGD1	49	0	2.86E-02

TIGD3_g14015.t1	TIGD3	173.5	0	2.86E-05
MSTRG.3299.3	TIMM21	322.5	0	1.65E-06
TIMP1_g21327.t1	TIMP1	35.5	0	1.60E-02
TINAG_g2751.t1	TINAG	50	0	4.36E-03
MSTRG.3373.4	TIPARP	6	106	1.11E-03
MSTRG.12410.2	TIPIN	115.5	0	1.84E-04
TIPIN_g12587.t1	TIPIN	25	0	4.46E-02
TITIN_g20266.t1	TITIN_g20266.t1	158	0	4.13E-05
TITIN_g4698.t1	TITIN_g4698.t1	321	0	3.14E-06
MSTRG.2786.2	TJAP1	353	0	2.77E-06
MSTRG.12586.1	TJP1	140.5	16	1.32E-02
KITM_g13015.t1	TK2	105	0	2.46E-04
TKFC_g13885.t1	TKFC	109	0	1.67E-04
TKNK_g12535.t1	TKNK_g12535.t1	1047	0	1.21E-08
MSTRG.16957.2	TLE2	0	174.5	3.21E-05
MSTRG.6229.2	TLE4	436	72.5	3.62E-02
MSTRG.16958.1	TLE5	0	1451	7.55E-06
MSTRG.20140.4	TLK1	74	2	2.13E-02
MSTRG.12362.4	TLN2	2372.5	17.5	1.59E-02
MSTRG.19496.5	TLR6	73	0	3.26E-03
TM139_g144.t1	TM139_g144.t1	246.5	0	4.68E-05
TM140_g235.t1	TM140_g235.t1	41.5	0	2.53E-02
MSTRG.12590.1	TM2D3	80	0	6.25E-04
TM2D3_g12755.t1	TM2D3	40	0	2.65E-02
TM40L_g6561.t1	TM40L_g6561.t1	32.5	0	2.23E-02
MSTRG.48.2	TM6SF1	221.5	0	1.80E-05
TM9S1_g12077.t1	TM9SF1	213	5.5	2.84E-02
MSTRG.4727.3	TMC6	0	189	2.32E-05
MSTRG.4727.6	TMC6	158.5	0	1.02E-02
MSTRG.17161.3	TMCC1	404	0	2.38E-06
MSTRG.754.3	TMCC3	3085.5	88	3.16E-05
MSTRG.754.2	TMCC3	739	132	4.81E-02
TMCO1_g6525.t1	TMCO1	71.5	0	7.92E-03
TMCO3_g775.t1	TMCO3	34	0	1.88E-02
TMED6_g13094.t1	TMED6	0	280	1.80E-05
MSTRG.20009.1	TMEFF2	105	555	1.04E-02
TM109_g13867.t1	TMEM109	285	20	5.30E-02
TMM11_g3571.t1	TMEM11	169	0	5.37E-04
TM116_g15313.t1	TMEM116	496	0	2.54E-07

MSTRG.17295.2	TMEM117	775.5	3.5	3.29E-05
MSTRG.19388.2	TMEM128	243.5	0	5.60E-06
TM129_g20196.t1	TMEM129	82.5	0	7.41E-04
TM134_g14102.t1	TMEM134	54	0	3.19E-03
MSTRG.13454.1	TMEM138	69.5	0	1.18E-03
TM160_g14663.t2	TMEM160	58	0	1.41E-02
TM171_g16555.t1	TMEM171	30	0	3.27E-02
MSTRG.12047.4	TMEM176A	0	74.5	9.07E-03
MSTRG.12047.2	TMEM176A	700	5119.5	4.53E-02
T178A_g1440.t1	TMEM178A	33.5	0	1.83E-02
MSTRG.15051.1	TMEM183A	504.5	0	2.47E-07
T184A_g10093.t2	TMEM184A	251	0	1.79E-03
MSTRG.21066.1	TMEM187	149.5	0	4.07E-05
TM201_g7725.t1	TMEM201	144	0	5.15E-05
MSTRG.3528.9	TMEM207	399.5	0	1.09E-06
ANC2_g11371.t2	TMEM210	85	0	4.87E-04
MSTRG.13453.3	TMEM216	76	0	7.85E-04
TM219_g10428.t1	TMEM219	55.5	0	1.12E-02
MSTRG.13510.2	TMEM223	227	1806	2.98E-04
TM232_g16705.t1	TMEM232	791.5	0	2.32E-05
TM236_g15139.t1	TMEM236	299	0	3.82E-06
MSTRG.15605.3	TMEM242	239.5	0	1.33E-05
MSTRG.11683.2	TMEM245	128.5	0	2.56E-04
TMM26_g18922.t1	TMEM26	55.5	0	6.24E-03
MSTRG.13565.2	TMEM262	195	0	1.28E-05
MSTRG.13565.3	TMEM262	152	0	3.69E-05
TM266_g12689.t1	TMEM266	194	0	1.53E-05
MSTRG.5648.1	TMEM267	41	0	1.25E-02
MSTRG.14553.2	TMEM30CP	26.5	0	4.07E-02
MSTRG.15025.5	TMEM35B	289	0	2.95E-06
MSTRG.15025.4	TMEM35B	214	0	1.67E-05
MSTRG.15025.3	TMEM35B	79	0	6.82E-04
TM35B_g8053.t1	TMEM35B	42.5	0	8.99E-03
MSTRG.3509.2	TMEM41A	305.5	0	1.24E-05
MSTRG.17133.2	TMEM43	560	0	1.63E-07
TMM51_g7776.t1	TMEM51	17914	0	1.19E-14
TMM61_g8164.t1	TMEM61	6723.5	1242	1.14E-02
CSCL1_g15857.t1	TMEM63A	37.5	0	1.27E-02
ES8L2_g14199.t1	TMEM80	28.5	0	4.40E-02

MSTRG.6381.1	TMEM81	0	429.5	2.03E-07
MSTRG.6381.2	TMEM81	689.5	46	2.43E-02
MSTRG.3955.5	TMEM88	1997	0	1.84E-09
MSTRG.3955.2	TMEM88	459	3753	4.47E-04
TMOD1_g11857.t1	TMOD1	2826.5	4.5	2.30E-02
MSTRG.18719.1	TMPRSS13	1020	229.5	1.92E-02
TMX1_g11949.t1	TMX1	1763	0	1.16E-08
MSTRG.3293.2	TMX3	546	0	1.45E-06
MSTRG.8492.1	TMX4	3764	944	3.32E-02
TENA_g11698.t1	TNC	494.5	0	2.59E-07
MSTRG.17000.1	TNFAIP8L1	56.5	0	3.84E-03
TNR1A_g5389.t1	TNFRSF1A	929	0	2.52E-08
MSTRG.3960.1	TNFSF12	80.5	0	6.25E-04
MSTRG.16409.2	TNIP1	520.5	0	5.85E-06
TNIP2_g20210.t1	TNIP2	1111	0	1.94E-08
MSTRG.3970.2	TNK1	139.5	0	2.50E-04
MSTRG.3572.7	TNK2	140	0	8.33E-04
MSTRG.3572.5	TNK2	63.5	0	5.23E-02
TB182_g13720.t1	TNKS1BP1	86	10.5	2.51E-02
MSTRG.17768.1	TNNC1	57.5	0	2.57E-03
MSTRG.10549.4	TNRC6A	713.5	0	5.43E-08
MSTRG.10549.3	TNRC6A	713	104.5	5.08E-02
MSTRG.9996.1	TNRC6B	26.5	0	4.17E-02
TENS1_g16128.t1	TNS1	65.5	0	1.86E-03
MSTRG.690.1	TNS3	71.5	0	3.02E-03
MSTRG.2633.3	TNXB	903.5	152.5	3.06E-02
TOM1_g9849.t1	TOM1	651.5	19	8.49E-03
TM1L1_g4098.t1	TOM1L1	106.5	0	3.95E-04
TOM6_g2629.t1	TOMM6	621	72.5	9.52E-04
TOM70_g3523.t1	TOMM70	593.5	1817.5	5.01E-02
MSTRG.17532.1	TOP2B	1953.5	0.5	1.41E-09
MSTRG.3838.1	TOP3A	893	1.5	4.58E-06
MSTRG.3838.2	TOP3A	34	841	1.26E-05
MSTRG.14935.2	TOP3B	141	0	1.04E-03
MSTRG.14935.8	TOP3B	3.5	38	2.82E-02
TOPB1_g18034.t1	TOPBP1	544	0	9.80E-06
MSTRG.11498.3	TOR1A	0	255	1.99E-05
FAN_g13438.t1	TOX	49	0	5.13E-03
TOX4_g12153.t1	TOX4	470	0	9.81E-06

MSTRG.12200.4	TP53BP1	49	0	5.13E-03
ASPP2_g15840.t1	TP53BP2	6906.5	0	1.05E-10
MSTRG.15168.2	TP53BP2	461.5	0	4.31E-05
MSTRG.4102.2	TP53I13	99	0	2.96E-04
MSTRG.8932.5	TP53INP1	611.5	0	1.90E-07
MSTRG.8932.2	TP53INP1	227	0	2.03E-05
MSTRG.8730.1	TP53TG5	20	119	1.31E-02
MSTRG.8730.4	TP53TG5	1.5	32	2.29E-02
TPC2_g14132.t1	TPCN2	397	0	6.54E-07
TPGS2_g22354.t1	TPGS2_g22354.t1	375.5	5.5	6.35E-03
TPK1_g102.t1	TPK1	358	68.5	1.55E-02
TPM3_g11350.t1	TPM3	353.5	0	1.08E-06
MSTRG.6556.1	TPR	1978	0	8.19E-10
MSTRG.8586.1	TPX2	122	0	4.68E-04
MSTRG.8586.2	TPX2	312.5	57.5	2.38E-02
CIKS_g7413.t1	TRAF3IP2	33	0	2.44E-02
TRAK1_g18180.t1	TRAK1	210	0	1.56E-05
MSTRG.3938.1	TRAPPC1	97	0	3.70E-04
MSTRG.13103.4	TRAPPC2L	36.5	0	1.39E-02
MSTRG.9127.2	TRAPPC9	576.5	0	1.97E-07
MSTRG.18708.2	TREH	63	0	1.76E-03
TREX2_g21874.t1	TREX2	182	623	4.91E-02
MSTRG.2539.3	TRIM27	63	0	1.97E-03
MSTRG.19120.2	TRIM3	456.5	5	2.83E-02
TRI33_g6953.t1	TRIM33	156.5	0	9.28E-05
MSTRG.4692.2	TRIM65	0	50	3.59E-03
MSTRG.19157.1	TRIM66	1384	0	4.32E-09
MSTRG.19157.2	TRIM66	39.5	942	1.24E-06
MSTRG.19082.2	TRIM68	95	0	2.96E-04
TRI68_g19771.t1	TRIM68	130	0	2.19E-02
LIN41_g18120.t1	TRIM71	115	0	1.66E-03
MSTRG.15352.3	TRIP12	350.5	0.5	4.60E-06
PCH2_g5476.t1	TRIP13	31.5	0	2.24E-02
MSTRG.12380.3	TRIP4	59	0	3.65E-03
TRM1_g17268.t2	TRMT1	97	0	1.19E-03
MSTRG.20811.2	TRMT2B	43.5	0	2.57E-02
MSTRG.10088.1	TRMT5	116	0	1.32E-04
TR61B_g1497.t2	TRMT61B	241.5	0	6.09E-06
MSTRG.10105.3	TRMU	76.5	0	3.65E-03

TSAP1_g7974.t1	TRNAU1AP	46	0	6.04E-03
TRNP1_g7944.t1	TRNP1	73.5	0	1.53E-02
TRPC5_g21662.t1	TRPC5	65	0	4.37E-03
MSTRG.10245.3	TRRAP	900	0	2.60E-08
MSTRG.10245.2	TRRAP	1197.5	0	1.26E-07
MSTRG.10245.7	TRRAP	0	220.5	3.93E-05
TRXR1_g9814.t1	TRUB2	52.5	0	7.17E-03
TRXR3_g17767.t1	TRXR3_g17767.t1	50.5	0	1.43E-02
MSTRG.6539.2	TSEN15	136.5	0	1.23E-04
TSG10_g16436.t1	TSG10_g16436.t1	41	0	1.21E-02
MSTRG.9137.5	TSNARE1	41.5	0	1.53E-02
TSNA1_g9138.t1	TSNARE1	32	0	2.13E-02
TSN3_g20565.t1	TSPAN3	37	0	4.85E-02
MSTRG.7424.1	TSPYL4	429.5	2029	1.26E-02
TSR3_g10767.t1	TSR3	26	0	5.15E-02
TSSK2_g15623.t1	TSSK2	25.5	0	5.32E-02
TSSK4_g12076.t1	TSSK4	25	117	4.02E-02
THTR_g9869.t1	TST	82.5	0	2.35E-03
MSTRG.14823.1	TTC28	2488.5	0	3.22E-09
TTC31_g1226.t1	TTC31	16	187.5	2.31E-03
MSTRG.6078.1	TTC39B	40	0	9.97E-03
BSND_g7607.t1	TTLL10	93	0	1.33E-03
MSTRG.13884.1	TTYH1	30	0	2.78E-02
TBA1C_g5062.t1	TUBA1C	448.5	0	6.04E-07
TBB5_g3691.t1	TUBB	51.5	0	1.03E-02
TBD_g4048.t1	TUBD1	367	0	2.29E-06
GCP6_g10051.t1	TUBGCP6	79.5	0	8.28E-04
EFTU_g10453.t1	TUFM	40.5	0	9.80E-03
MSTRG.15612.2	TULP4	296	0	3.64E-05
MSTRG.8270.6	TUT4	36.5	0	2.60E-02
MSTRG.8270.3	TUT4	33	0.5	3.87E-02
MSTRG.6301.2	TUT7	172	0	4.14E-02
MSTRG.408.1	TWIST1	2385	318.5	1.66E-03
MSTRG.8097.3	TXLNA	71.5	1297.5	1.90E-08
MSTRG.8097.1	TXLNA	2832	247	1.60E-05
THIOM_g9860.t1	TXN2	27	0	4.52E-02
MSTRG.3325.2	TXNL4A	29.5	0	3.14E-02
TXN4A_g3115.t1	TXNL4A	7	70.5	4.11E-02
TYSD1_g22157.t1	TYSND1	6	82	9.81E-03

UACA_g12615.t1	UACA	5	44.5	2.40E-02
MSTRG.6643.1	UAP1	400.5	60	8.19E-03
UB2L3_g1032.t1	UB2L3_g1032.t1	4.5	48	1.50E-02
MSTRG.21521.4	UBA1	18	343	4.16E-02
MSTRG.19646.1	UBA6	1734.5	273	7.37E-03
MSTRG.6779.5	UBAP2L	353	4.5	3.41E-02
UBE2N_g9745.t1	UBE2N	3.5	33	3.46E-02
MSTRG.12547.2	UBE3A	0	478	1.11E-05
MSTRG.14800.4	UBE3B	374.5	24.5	8.69E-03
MSTRG.10559.1	UBFD1	3.5	31.5	3.55E-02
MSTRG.12462.2	UBL7	437.5	0	5.61E-06
UBP11_g3167.t2	UBP11_g3167.t2	3	34.5	2.60E-02
BCL9_g2642.t1	UBR2	1120	183.5	4.38E-02
MSTRG.20146.4	UBR3	1164.5	0	4.71E-06
MSTRG.20146.2	UBR3	379	0	2.61E-05
MSTRG.8991.1	UBR5	2750	0	3.42E-10
MSTRG.4520.3	UBTF	230	1035.5	1.68E-02
UCP2_g19701.t1	UCP2	1	164	6.45E-05
UFL1_g7491.t1	UFL1	1	22.5	3.14E-02
MSTRG.15014.1	ULK1	1965.5	0	1.13E-08
MSTRG.11824.3	UNC13B	2573.5	142	2.94E-05
MSTRG.11824.6	UNC13B	104.5	613.5	3.70E-02
MSTRG.15488.1	UNC80	52	0	4.13E-03
MSTRG.4690.3	UNK	65.5	0	1.86E-03
MSTRG.740.1	UPF3A	111.5	0	3.97E-03
CSMT1_g10763.t1	UQCC4	17	156.5	2.17E-02
MSTRG.16227.2	UQCRQ	222	0	8.09E-06
URM1_g11533.t1	URM1	0	281.5	1.86E-06
USB1_g12987.t1	USB1	0	216.5	4.70E-06
MSTRG.6671.3	USF1	147	0	4.32E-04
MSTRG.3659.1	USF3	865	0	4.15E-08
MSTRG.3659.2	USF3	470	0	3.16E-07
USH1G_g4520.t1	USH1G	0	132.5	5.36E-05
MSTRG.10985.2	USP16	0	24	2.86E-02
MSTRG.6661.4	USP21	481.5	0	6.46E-07
MSTRG.8241.3	USP24	10.5	53	5.16E-02
MSTRG.6944.2	USP25	295	0	3.41E-06
MSTRG.18760.5	USP28	162	0	2.36E-05
UBP3_g12548.t1	USP3	2.5	28	3.18E-02

UBP43_g3669.t1	USP43	2	27.5	2.68E-02
PNISR_g7479.t1	USP45	527.5	0	2.57E-07
UBP48_g7864.t1	USP48	2	34	1.14E-02
UBP53_g1760.t2	USP53	2	43.5	2.18E-02
UBP54_g19008.t1	USP54	2	40.5	1.08E-02
MSTRG.15935.1	UTP15	504	0	3.05E-07
UTP25_g6495.t1	UTP25	0	32	1.54E-02
VAPB_g8802.t1	VAPB	0	407.5	1.93E-05
MSTRG.14089.3	VASP	264	0	7.16E-06
VASP_g14706.t1	VASP	0	21.5	5.38E-02
MSTRG.17201.2	VHL	17	195.5	4.97E-02
MSTRG.8927.2	VIRMA	821.5	0	4.62E-06
MSTRG.13921.1	VN1R4	2	34.5	9.86E-03
MSTRG.18696.2	VPS11	220	0	2.52E-05
MSTRG.7842.2	VPS13D	428	0	1.06E-05
MSTRG.7842.3	VPS13D	389.5	16	1.72E-03
MSTRG.8543.2	VPS16	336.5	9	4.46E-02
MSTRG.9203.3	VPS28	502.5	0	8.50E-06
MSTRG.9203.6	VPS28	177.5	0	2.13E-05
MSTRG.9203.4	VPS28	47	604	2.71E-02
VP37A_g11217.t1	VPS37A	231	0	7.97E-06
MSTRG.13449.1	VPS37C	268	0	1.47E-05
MSTRG.13449.3	VPS37C	65	501	5.60E-04
MSTRG.12918.2	VPS4A	146.5	0	6.11E-05
VPS51_g14005.t1	VPS51	72	1.5	3.77E-02
VPS72_g6822.t1	VPS72	36	0	1.58E-02
VRK2_g7200.t1	VRK2_g7200.t1	47	0	1.48E-02
MSTRG.13935.2	VSIG10L	335.5	0	3.26E-04
VTA1_g16224.t1	VTA1	36	0	1.55E-02
VWA1_g7626.t1	VWA1	14.5	208	2.94E-02
VMA5A_g19353.t1	VWA5A	609	0	1.16E-07
VWA7_g2462.t1	VWA7	454.5	0	5.35E-07
VWCE_g13883.t1	VWCE	70.5	0	3.98E-03
MSTRG.14588.3	WAC	262.5	1405.5	7.24E-03
WASH1_g5423.t1	WASHC1	54.5	1121	3.63E-03
WASL_g306.t1	WASL	729	0	1.57E-07
WBP1_g1230.t1	WBP1	32	0	2.25E-02
WBP11_g22045.t1	WBP11	47.5	0	5.22E-03
WBP1L_g18715.t1	WBP1L	30.5	0	2.49E-02

MSTRG.19762.7	WDFY3	8154.5	174.5	1.05E-10
WDR1_g20277.t1	WDR1	48	0	5.57E-03
MSTRG.17954.1	WDR11	2191	34.5	4.85E-13
MSTRG.17954.2	WDR11	95.5	1481	4.75E-07
MSTRG.9255.2	WDR20	79	0	7.17E-04
MSTRG.6918.2	WDR3	281.5	0	1.61E-03
WDR5_g11435.t1	WDR5	200.5	0	2.03E-05
WDR59_g13146.t1	WDR59	50.5	0	6.81E-03
MSTRG.17698.3	WDR6	261.5	0	5.73E-06
MSTRG.12212.2	WDR76	94.5	0	4.24E-04
WDR90_g16791.t1	WDR90_g16791.t1	38	0	1.53E-02
MSTRG.173.1	WDR91	87	0.5	8.12E-03
MSTRG.20192.3	WDSUB1	64.5	0	4.13E-03
MSTRG.8038.2	WDTC1	182.5	0	1.86E-05
WEE2_g188.t1	WEE2	255	0	4.97E-04
MSTRG.8739.1	WFDC3	187.5	0	2.03E-05
MSTRG.8739.2	WFDC3	12.5	80.5	1.17E-02
WFKN2_g4108.t1	WFIKKN2	70.5	0	2.15E-03
WNK1_g5432.t1	WNK1	39	0	1.13E-02
MSTRG.17797.1	WNT5A	587.5	2063	2.52E-02
MSTRG.11254.4	WRN	115.5	0	5.87E-04
WSB2_g15354.t1	WSB2	6.5	126	4.22E-04
WSCD1_g3787.t1	WSCD1	24	0	5.02E-02
MSTRG.15642.4	WTAP	438.5	0	8.00E-07
KIBRA_g17075.t1	WWC1	23.5	0	5.30E-02
MSTRG.2254.1	XPO7	25.5	0	4.32E-02
MSTRG.17394.3	XRN1	1401	0	1.04E-08
MSTRG.21221.14	XRN2	349.5	0	1.62E-06
MSTRG.5157.1	YAF2	148.5	2.5	1.19E-02
MSTRG.8372.2	YBX1	40	1034	1.06E-02
MSTRG.3042.2	YES1	557.5	0	2.48E-07
MSTRG.16736.2	YIPF2	719	61	3.72E-02
MSTRG.16639.2	YJU2B	287.5	0	6.42E-06
MSTRG.13242.1	YTHDF3	31	0	2.74E-02
1433F_g15510.t1	YWHAH	24.5	0	5.48E-02
MSTRG.8976.2	YWHAZ	4313.5	0	3.16E-11
MSTRG.20361.5	ZBED3	266.5	0	3.79E-06
MSTRG.18755.1	ZBTB16	25	138	1.24E-02
ZBT21_g10906.t1	ZBTB21	103.5	0	3.25E-04

MSTRG.7463.6	ZBTB24	1974.5	31.5	5.55E-10
MSTRG.7463.1	ZBTB24	2201.5	0	9.60E-08
MSTRG.7463.4	ZBTB24	1546	0	1.25E-07
MSTRG.7463.3	ZBTB24	312	0	1.28E-05
ZBT24_g7431.t1	ZBTB24	106	0	1.29E-03
MSTRG.21260.3	ZBTB25	82	0	8.75E-04
MSTRG.21260.2	ZBTB25	72.5	0	5.50E-03
ZBT25_g9584.t1	ZBTB25	69.5	0	6.78E-03
MSTRG.4952.1	ZBTB39	344.5	0	3.41E-06
MSTRG.3962.2	ZBTB4	1982	0	9.23E-10
MSTRG.3962.1	ZBTB4	0	1434	2.21E-04
MSTRG.7849.1	ZBTB40	6.5	65	3.58E-03
ARHGH_g15771.t1	ZBTB41	22.5	745.5	2.83E-10
ZBT44_g19233.t1	ZBTB44	38	0	1.20E-02
MSTRG.11598.1	ZBTB6	198.5	0	1.20E-05
MSTRG.16985.3	ZBTB7A	76	2	1.25E-02
ZBT7C_g2985.t1	ZBTB7C	25.5	0	4.33E-02
ZBTB9_g2527.t1	ZBTB9	28	0	3.20E-02
ZC3HE_g9416.t1	ZC3H14	658.5	0	8.29E-08
ZC3HF_g15899.t1	ZC3H15	289.5	0	3.85E-04
MSTRG.14044.2	ZC3H4	1205.5	0	1.72E-08
K1549_g210.t1	ZC3HAV1L	194.5	0	1.83E-05
MSTRG.13083.2	ZCCHC14	0	1645.5	7.29E-06
MSTRG.11776.2	ZCCHC7	286	0	2.88E-06
ITA9_g11873.t1	ZCCHC7	25.5	0	5.07E-02
MSTRG.14667.1	ZCCHC8	747	156.5	5.17E-02
MSTRG.16003.1	ZCCHC9	53	0	1.15E-02
KCRS_g16618.t3	ZCCHC9	34.5	0	3.79E-02
ZCPW2_g18104.t1	ZCWPW2	119.5	0	1.20E-03
MSTRG.11525.3	ZDHHC12	175	0	2.01E-05
ZDH13_g20110.t1	ZDHHC13	11	149	3.49E-03
MSTRG.9774.5	ZDHHC17	237.5	0	1.36E-05
ZDH20_g1122.t1	ZDHHC20	38.5	0	1.85E-02
MSTRG.13621.1	ZDHHC24	26.5	0	4.17E-02
MSTRG.13425.3	ZDHHC5	239	0	5.69E-06
MSTRG.13425.4	ZDHHC5	382	1.5	1.37E-04
ZDHC5_g13735.t1	ZDHHC5	39.5	0	1.19E-02
ZEB2_g21027.t1	ZEB2	44	0	1.71E-02
MSTRG.2719.2	ZFAND3	571.5	0	3.90E-07

ZFAN5_g6141.t1	ZFAND5	126	0	1.87E-03
ZFAN6_g12715.t2	ZFAND6	37	0	2.72E-02
ZFAT_g17914.t1	ZFAT_g17914.t1	217	2.5	3.31E-03
ZFHX4_g9431.t2	ZFHX4_g9431.t2	106.5	0	1.21E-03
ZFP69_g17174.t1	ZFP2	42.5	0	2.99E-02
MSTRG.4000.1	ZFP3	189.5	0	1.44E-05
MSTRG.1523.6	ZFP36L2	73.5	0	1.43E-03
MSTRG.9148.2	ZFP41	494.5	0	5.53E-06
MSTRG.9148.3	ZFP41	305.5	0	1.28E-05
ZFP82_g14990.t1	ZFP82	4.5	149	3.97E-02
MSTRG.5577.2	ZFR	1551.5	0	6.17E-08
CYHR1_g9209.t1	ZFTRAF1	84.5	0	4.96E-04
MSTRG.20489.2	ZFX	1029	0	4.57E-08
ZFYV1_g9517.t1	ZFYVE1	159.5	0	7.08E-05
MSTRG.15991.6	ZFYVE16	1212	49.5	1.67E-03
LST2_g20206.t1	ZFYVE28	70	0	4.24E-03
ZGPAT_g8877.t1	ZGPAT	611	0	1.26E-06
MSTRG.10280.2	ZKSCAN1	380.5	0	1.02E-05
MSTRG.10282.3	ZKSCAN1	53	0	3.49E-03
MSTRG.10282.2	ZKSCAN1	66	0	1.93E-02
MSTRG.3444.2	ZMAT3	94	0	2.87E-03
ZMIZ1_g19040.t1	ZMIZ1	468.5	0	8.11E-07
MSTRG.704.2	ZMIZ1	98	0	3.74E-04
MSTRG.704.4	ZMIZ2	286	0	2.77E-06
ZMYM1_g8058.t1	ZMYM1	2.5	29.5	4.39E-02
MSTRG.20710.3	ZMYM3	1059.5	94	3.07E-04
ZMYM5_g1141.t1	ZMYM5	33	0	1.92E-02
DPH7_g11349.t1	ZMYND19	103.5	0	6.65E-04
ZN717_g10140.t1	ZN717_g10140.t1	521	0	2.40E-07
MSTRG.4158.2	ZNF135	70.5	0	1.68E-03
ZN143_g20034.t1	ZNF143	278.5	0	3.08E-06
MSTRG.14359.2	ZNF146	305	0	1.10E-05
MSTRG.3585.3	ZNF148	681.5	0	1.93E-07
ZN165_g2308.t1	ZNF165	31.5	0	2.23E-02
ZNF35_g18210.t1	ZNF197	45	0	1.54E-02
ZNF2_g16391.t1	ZNF2	45	0	1.18E-02
ZN202_g19371.t2	ZNF202	535	0	2.80E-06
MSTRG.18662.1	ZNF202	341	0	9.82E-06
MSTRG.18662.3	ZNF202	198	0	2.00E-05

ZN205_g10681.t1	ZNF205	121	0	1.03E-04
MSTRG.4166.3	ZNF207	3891.5	0	4.15E-11
MSTRG.4166.4	ZNF207	338.5	0	1.29E-05
MSTRG.13797.2	ZNF211	349.5	0	7.69E-06
MSTRG.12061.3	ZNF219	681.5	0	2.06E-07
ZNF24_g2313.t1	ZNF24	98	0	4.23E-04
ZN250_g9230.t1	ZNF250	46.5	0	1.20E-02
MSTRG.13791.5	ZNF256	595.5	0	2.41E-07
MSTRG.13791.3	ZNF256	629	0	8.12E-07
ZN260_g14989.t1	ZNF260	50	0	4.36E-03
MSTRG.16771.1	ZNF266	29.5	0	2.95E-02
Z280C_g21745.t1	ZNF280C	24	0	5.48E-02
Z286A_g3629.t2	ZNF286A	48	0	9.40E-03
MSTRG.3877.2	ZNF286A	0	40.5	1.21E-02
MSTRG.7126.2	ZNF326	40	0	1.43E-02
MSTRG.8752.2	ZNF335	139.5	1	1.32E-02
MSTRG.9223.3	ZNF34	294	0	4.12E-06
ZN850_g14898.t1	ZNF345	0	145.5	5.22E-05
MSTRG.16569.2	ZNF354A	239	0	8.52E-06
ZN383_g14904.t1	ZNF383	99.5	0	2.09E-03
LOC000000105_g6535.t1	ZNF383	59.5	0	6.78E-03
ZN395_g1989.t1	ZNF395	38.5	0	2.32E-02
ZN398_g95.t1	ZNF398	1193	0	6.28E-08
ZN408_g13563.t1	ZNF408	305.5	0	2.46E-06
MSTRG.9499.2	ZNF410	122.5	0	9.46E-05
ZN418_g14292.t1	ZNF418	48.5	0	5.14E-03
ZN423_g12909.t1	ZNF423	128	0	7.85E-05
ZN425_g96.t1	ZNF425	33	0	1.92E-02
ZN445_g18206.t1	ZNF445	41	0	1.02E-02
MSTRG.2866.3	ZNF451	230	0	1.14E-04
MSTRG.11695.1	ZNF462	262	1181.5	1.06E-02
ZN470_g14347.t2	ZNF470	43	0	1.08E-02
ZNF48_g10412.t1	ZNF48	224.5	0	9.00E-06
MSTRG.3251.1	ZNF532	470	0	5.52E-07
MSTRG.3251.4	ZNF532	0	504	1.06E-05
MSTRG.3251.5	ZNF532	178	0	6.67E-03
ZN532_g3037.t1	ZNF532	33.5	0	3.01E-02
MSTRG.14416.2	ZNF536	163.5	506	4.70E-02
MSTRG.5565.1	ZNF555	0	47.5	2.52E-03

MSTRG.21625.5	ZNF558	0	319.5	2.90E-06
MSTRG.21625.4	ZNF558	124	0	1.14E-04
MSTRG.21625.2	ZNF558	334	2	3.49E-03
MSTRG.21587.4	ZNF558	40.5	0	1.17E-02
MSTRG.21625.1	ZNF558	174	29.5	1.87E-02
MSTRG.21587.5	ZNF558	48.5	0	2.07E-02
MSTRG.14374.1	ZNF568	32.5	0	2.07E-02
MSTRG.14154.2	ZNF574	288	0	3.35E-06
MSTRG.20315.1	ZNF592	77	0	9.44E-03
MSTRG.10782.4	ZNF598	257	0	2.66E-05
MSTRG.13763.4	ZNF606	280.5	0	4.04E-06
MSTRG.13763.1	ZNF606	158.5	0	1.76E-04
MSTRG.21592.3	ZNF607	0	60.5	4.58E-03
MSTRG.13927.1	ZNF615	219.5	0	8.64E-06
MSTRG.13927.2	ZNF615	0	130.5	1.12E-04
ZN621_g18173.t1	ZNF621	1378.5	0	4.16E-09
MSTRG.9164.3	ZNF623	252	0	4.54E-06
MSTRG.3445.2	ZNF639	243.5	0	5.07E-05
MSTRG.21619.4	ZNF658	65.5	0	8.29E-03
MSTRG.14634.3	ZNF664	249	0	1.38E-05
MSTRG.14634.4	ZNF664	274	0	3.06E-04
ZN347_g14451.t1	ZNF665	53	0	3.81E-03
MSTRG.13847.3	ZNF667	52.5	679	4.84E-02
MSTRG.20560.1	ZNF674	185.5	0	1.56E-05
ZN674_g21316.t1	ZNF674	4	34	3.44E-02
MSTRG.9218.3	ZNF7	790.5	0	1.40E-07
MSTRG.9218.2	ZNF7	742	11	1.84E-02
ZN709_g17299.t1	ZNF709	312	0	1.85E-06
ZN709_g17315.t1	ZNF709	4.5	81.5	4.25E-04
MSTRG.16701.1	ZNF709	51	0	4.78E-03
MSTRG.16673.1	ZNF709	35	0	1.79E-02
ZN709_g17298.t1	ZNF709	226.5	6.5	3.87E-02
ZN711_g21536.t1	ZNF711	52.5	0	5.30E-03
MSTRG.5048.2	ZNF740	367.5	0	1.09E-06
ZN750_g4699.t1	ZNF750	17.5	140	3.11E-03
ZN772_g14320.t1	ZNF772	340	73.5	3.04E-02
MSTRG.6335.4	ZNF782	45.5	0	6.26E-03
MSTRG.10485.3	ZNF785	73	0	9.67E-04
MSTRG.14823.8	ZNF79	95	0	2.97E-04

MSTRG.15497.1	ZNF804A	113.5	3.5	2.30E-04
MSTRG.13905.1	ZNF845	133	0	7.36E-05
SSPO_g87.t1	ZNF862	62	0	1.94E-03
ZFP28_g14348.t1	ZNF883	886.5	40.5	1.72E-05
MSTRG.8768.2	ZNFX1	785	0	4.37E-08
ZNHI1_g10273.t1	ZNHIT1	197	0	5.95E-05
ZNHI2_g14007.t1	ZNHIT2	68.5	0	3.26E-02
ZNHI3_g4035.t1	ZNHIT3	327	76	5.04E-02
ZNRF3_g15452.t1	ZNRF3	1825	420.5	1.74E-02
ZPR1_g19458.t1	ZPR1	78	0	1.37E-03
MSTRG.2535.5	ZSCAN12	664.5	0	5.33E-06
STK31_g9455.t1	ZSCAN12	94	0	3.11E-04
ZSC21_g10203.t1	ZSCAN21	775.5	0	5.41E-08
MSTRG.2532.1	ZSCAN31	238	43	1.28E-02
MSTRG.10721.3	ZSCAN32	59.5	0	3.48E-03
MSTRG.9556.1	ZSWIM4	4339	543.5	4.11E-04
MSTRG.16636.2	ZSWIM4	106.5	543	3.32E-02
MSTRG.5716.4	ZSWIM6	5.5	63.5	1.53E-02
ZSWM7_g3619.t1	ZSWIM7	55	0	3.36E-03
ZZZ3_g7181.t1	ZZZ3	41	0	1.37E-02

Dominant vs. Pre-Ovulatory

Transcript ID	Gene Name	Average D	Average P	P-Value
3BP5L_g9526.t1	3BP5L_g9526.t1	102.5	0	4.26E-03
MSTRG.2809.1	AARS2	285	0	2.95E-05
MSTRG.11700.1	ABCA1	451	0	3.32E-03
ABCA3_g10716.t1	ABCA3	9.5	676	3.80E-09
MSTRG.4637.2	ABCA5	392.5	0	1.20E-05
ABCA5_g4482.t1	ABCA5	332.5	0	1.89E-02
MSTRG.4631.2	ABCA6	292.5	0	4.47E-05
MSTRG.4631.3	ABCA6	35.5	0	3.89E-02
ABCBB_g20941.t1	ABCB11	54.5	0	1.06E-02
MSTRG.11037.1	ABCC1	65.5	0	6.87E-03
MSTRG.869.4	ABCC4	132.5	0	3.62E-04
MSTRG.9496.1	ABCD4	96	0	1.97E-03
MSTRG.39.1	ABCF2	194.5	0	1.59E-04
ABCF3_g3259.t1	ABCF3	44.5	0	4.22E-02
MSTRG.3683.3	ABHD10	101	892	8.53E-04
ABD12_g8339.t1	ABHD12	35.5	0	4.09E-02
MSTRG.17755.2	ABHD14A	87.5	0	3.95E-03
AB17A_g17600.t1	ABHD17A	47	0	1.66E-02
MSTRG.14560.4	ABI1	160.5	0	1.75E-04
ABITM_g11762.t1	ABITRAM	47	0	3.24E-02
MSTRG.6510.2	ABL2	1992	0	1.86E-08
MSTRG.17998.1	ABLIM1	82	0	9.39E-03
ABRA_g9004.t1	ABRA	60	0	1.22E-02
ABRAL_g16234.t1	ABRACL	38	0	3.43E-02
MSTRG.16921.2	ABTB1	54	0	1.05E-02
ABTB2_g13501.t1	ABTB2	4321	0	6.07E-04
MSTRG.7666.2	ACAP3	59	0	1.10E-02
MSTRG.7666.3	ACAP3	145	10	4.54E-02
MSTRG.14562.1	ACBD5	342	0	2.46E-04
ACBD7_g15122.t1	ACBD7	45	0	1.92E-02
ACDSB_g9349.t1	ACDSB_g9349.t1	132.5	0	5.25E-03
ACER2_g6044.t1	ACER2	73	0	3.64E-03
MSTRG.12026.5	ACIN1	1140	0	2.10E-06
MSTRG.12026.7	ACIN1	507.5	0	6.79E-06
MSTRG.5995.2	ACO1	0	235.5	1.56E-06
MSTRG.939.1	ACOD1	71.5	0	4.49E-02
MSTRG.13394.1	ACP2	48	0	1.58E-02

PPA6_g6897.t1	ACP6	96	0	1.27E-03
MSTRG.13104.4	ACSF3	5.5	301.5	5.78E-06
ACSM1_g10513.t2	ACSM4	49	0	1.89E-02
CS054_g14822.t1	ACTMAP	255.5	0	4.80E-05
ACTN1_g9548.t1	ACTN1	35	0	4.12E-02
ARP8_g18413.t1	ACTR8	136	0	7.56E-04
AVR2B_g18150.t1	ACVR2B	56	0	1.14E-02
ADA12_g18562.t1	ADAM12	213	0	5.41E-05
MSTRG.6758.3	ADAM15	124	0	2.45E-03
MSTRG.527.2	ADAM22	734.5	0	6.19E-07
ADA30_g6910.t1	ADAM30	296	0	1.42E-05
ADAM7_g5599.t1	ADAM7_g5599.t1	416	2218.5	1.45E-02
ATS16_g5504.t1	ADAMTS16	347.5	0	2.16E-04
MSTRG.12994.3	ADAMTS18	175	0	3.13E-06
ATS2_g17180.t1	ADAMTS2	90.5	0	1.06E-02
MSTRG.18617.1	ADAMTS8	0	35	1.18E-02
MSTRG.17844.1	ADAMTS9	95.5	484.5	2.49E-02
PNM6A_g21864.t1	ADAMTSL2	60.5	0	3.42E-02
MSTRG.6768.4	ADAR	187.5	0	1.96E-04
ADCY6_g5078.t1	ADCY6	252.5	0	2.89E-05
MSTRG.18035.2	ADD3	152	0	2.26E-04
AGRB3_g2780.t1	ADGRB3	211	0	1.40E-04
AGRE5_g17238.t1	ADGRE5	3	40	2.28E-02
MSTRG.12816.1	ADGRG1	94.5	0	2.57E-03
AGRG6_g16223.t1	ADGRG6	42.5	0	4.10E-02
MSTRG.15053.3	ADIPOR1	1408.5	0	7.92E-08
PAQR1_g15718.t1	ADIPOR1	317.5	0	1.47E-04
MSTRG.15053.2	ADIPOR1	95	1039	6.23E-03
MSTRG.19175.1	ADM	85	0	3.27E-03
MSTRG.19175.3	ADM	85	0	8.57E-03
MSTRG.8787.3	ADNP	3269.5	0	5.80E-07
AA1R_g15710.t1	ADORA1	1509.5	0	8.84E-08
ADRB2_g16968.t2	ADRB2	9.5	225.5	9.89E-03
MSTRG.15691.4	AFDN	1883.5	0	2.56E-08
MSTRG.21027.1	AFF2	0	210.5	9.57E-03
AFF4_g16809.t1	AFF4	58	0	1.14E-02
SPA5L_g12435.t1	AFG2B	33.5	0	4.59E-02
AFG31_g13290.t1	AFG3L1P	262	0	4.61E-05
MSTRG.1381.2	AFTPH	89.5	0	1.86E-03

CBPC2_g13586.t1	AGBL2	0	558.5	4.17E-07
CBPC3_g236.t1	AGBL3	392.5	0	9.53E-06
MSTRG.10303.3	AGFG2	268.5	0	2.81E-05
AGFG2_g10227.t1	AGFG2	336	0	6.36E-05
AGGF1_g16583.t1	AGGF1	115	1858.5	5.22E-02
MSTRG.2644.2	AGPAT1	8	171	3.42E-02
MSTRG.10891.6	AGPAT3	241.5	0	4.16E-03
AGRV1_g16642.t1	AGRV1_g16642.t1	66	0	5.41E-03
SAHH_g11595.t1	AHCY	114.5	0	6.79E-04
SAHH2_g7009.t1	AHCYL1	35.5	0	3.90E-02
AHDC1_g7955.t1	AHDC1	643	18.5	3.55E-02
MSTRG.13483.4	AHNAK	679	0	1.13E-05
AHNK_g13909.t1	AHNAK	285.5	0	8.50E-05
MSTRG.166.1	AHRR	0.5	32	4.73E-02
AHSP_g10365.t1	AHSP	166	0	1.04E-03
MSTRG.18351.6	AIFM2	246	0	5.72E-04
AIPL1_g3788.t2	AIPL1	153	0	2.76E-04
KAD1_g17730.t1	AK1	32.5	0	5.00E-02
AK1CN_g15061.t1	AK1CN_g15061.t1	143.5	0	4.11E-03
MSTRG.7253.4	AK4	810	0	6.81E-07
MSTRG.7253.5	AK4	845	0	7.51E-07
MSTRG.21145.2	AKAP17A	1099.5	0	2.53E-07
MSTRG.21145.3	AKAP17A	134.5	0	9.83E-04
MSTRG.16936.3	AKAP5	3855	0	3.63E-09
MSTRG.5878.2	AKAP8L	86.5	0	1.41E-02
ALDR_g242.t1	AKR1B1	821	0	4.63E-06
MSTRG.18056.2	AKR1D1	115.5	0	1.31E-02
ARK74_g7827.t1	AKR7A2	2	30	3.46E-02
MSTRG.15231.2	AKT3	283	0	2.17E-05
HEM0_g21378.t1	ALAS2	73	0	5.38E-03
AL1A1_g6143.t1	ALDH1A1	190	0	2.81E-04
MSTRG.6073.2	ALDH1L2	236.5	0	2.60E-04
MSTRG.6073.1	ALDH1L2	138.5	0	3.12E-04
AL1L2_g9818.t1	ALDH1L2	140.5	0	7.63E-03
MMSA_g9496.t2	ALDH6A1	10.5	1274	1.24E-07
MMSA_g9496.t1	ALDH6A1	517	22	1.48E-02
AL7A1_g16763.t1	ALDH7A1	37	0	3.62E-02
ALDOA_g10436.t1	ALDOA	104.5	0	2.93E-03
ALG11_g1022.t1	ALG11	110	0	1.30E-02

MSTRG.20888.6	ALG13	394.5	48.5	4.53E-02
ALG5_g1038.t1	ALG5	4	176.5	4.57E-02
MSTRG.7266.2	ALG6	161	0	1.74E-02
MSTRG.18984.1	ALG8	0	214	1.09E-05
MSTRG.9423.2	ALKBH1	170	0	5.51E-04
AL5AP_g1067.t1	ALOX5AP	709	0	1.51E-06
MSTRG.12683.4	ALPK3	0	3000.5	2.27E-07
MSTRG.19934.7	ALS2	1008	0	2.05E-07
MSTRG.6984.1	ALX3	1201	162.5	3.44E-02
THOC4_g4661.t1	ALYREF	998.5	38	3.74E-05
MSTRG.13379.1	AMBRA1	1317	0	6.77E-07
MSTRG.18913.4	AMOTL1	174	0	2.00E-03
GCST_g18315.t1	AMT	233	0	3.19E-04
MSTRG.7040.6	AMY2A	536	0	1.54E-06
MSTRG.7040.1	AMY2A	4.5	566	8.21E-04
MSTRG.7040.3	AMY2A	95.5	0	2.21E-03
MSTRG.7040.5	AMY2B	257.5	0	2.00E-06
MSTRG.7040.4	AMY2B	460.5	0	2.62E-06
MSTRG.4615.1	AMZ2	112.5	0	9.20E-04
ANGI_g12178.t1	ANG	195.5	880.5	2.55E-02
ANGE2_g6464.t1	ANGEL2	192.5	867.5	1.56E-02
ANGL3_g6119.t1	ANGL3_g6119.t1	58	0	1.01E-02
ANGL2_g11566.t1	ANGPTL2	47.5	0	1.97E-02
DOCK7_g7251.t1	ANGPTL3	14	227.5	4.06E-02
ANGL4_g17511.t1	ANGPTL4	381	0	8.85E-06
ANK3_g18917.t1	ANK3_g18917.t1	32	0	5.43E-02
MSTRG.15951.2	ANKDD1B	246.5	0	1.18E-02
MSTRG.4021.4	ANKFY1	725.5	0	9.10E-04
MSTRG.13106.3	ANKRD11	613	0	8.29E-07
MSTRG.13106.2	ANKRD11	2328.5	103	6.39E-05
ANR12_g2810.t1	ANKRD12	380	20.5	4.03E-02
AN13C_g7209.t1	ANKRD13C	4398	0	4.73E-09
MSTRG.14555.4	ANKRD26	251	0	8.42E-04
MSTRG.17507.4	ANKRD28	116	0	6.16E-04
ANR28_g18064.t1	ANKRD28	215.5	3.5	1.39E-02
ANR49_g19582.t1	ANKRD29	137.5	0	2.01E-03
MSTRG.9363.1	ANKRD45	717	0	6.57E-07
MSTRG.9363.4	ANKRD45	544	0	1.47E-06
ANR50_g1785.t1	ANKRD50	289.5	0	1.55E-05

ANR53_g1272.t1	ANKRD53	2733	0	6.41E-09
MSTRG.10695.2	ANKS3	33.5	0	5.31E-02
ANLN_g371.t1	ANLN	92.5	0	2.01E-03
MSTRG.17619.1	ANO10	0	613.5	1.47E-07
ANO4_g9785.t2	ANO4	0	103.5	8.50E-04
MSTRG.7866.1	ANO7	378.5	0	5.60E-06
MSTRG.21116.4	ANOS1	519.5	0	9.35E-07
MSTRG.16675.1	ANXA1	43	0	2.23E-02
ANXA2_g12531.t1	ANXA2	68.5	0	7.12E-03
ANXA3_g20568.t1	ANXA3	154	0	6.69E-04
MSTRG.2289.2	AOC1	115	0	9.58E-04
MSTRG.2289.3	AOC1	338	0	4.31E-03
MSTRG.12013.2	AP1G2	35.5	0	4.82E-02
AP1M2_g17343.t1	AP1M2	147.5	0	2.41E-04
AP2A1_g14559.t1	AP2A1	351.5	0	1.45E-06
AP2A2_g14214.t1	AP2A2	61.5	0	6.67E-03
MSTRG.6944.4	AP4B1	152.5	0	2.33E-02
AP5B1_g14030.t1	AP5B1	264.5	0	2.72E-05
APAF_g9775.t1	APAF1	76	0	3.90E-03
AB1IP_g15177.t1	APBB1IP	40	0	2.84E-02
MSTRG.19518.2	APBB2	493	4.5	2.24E-03
MSTRG.16120.3	APC	238	0	6.51E-03
APCL_g1008.t1	APCL_g1008.t1	32	0	5.21E-02
MSTRG.17714.1	APEH	514	0	1.24E-05
MSTRG.2110.1	APELA	33	0	5.34E-02
APEX1_g12188.t1	APEX1	182.5	0	1.36E-02
APH1A_g6850.t1	APH1A_g6850.t1	84.5	0	1.04E-02
APH1B_g12546.t1	APH1B	512.5	0	6.63E-06
MSTRG.1359.1	APLF	81.5	0	2.55E-03
MSTRG.3544.1	APOD	1.5	196	8.73E-04
MSTRG.10992.1	APP	224.5	0	2.40E-06
MSTRG.20574.3	ARAF	882	0	6.54E-07
MSTRG.20574.5	ARAF	785.5	0	6.92E-07
ARC1B_g5407.t1	ARC1B_g5407.t1	260.5	0	4.20E-05
TOM1_g9487.t1	AREL1	178	0	3.04E-06
MSTRG.9491.3	AREL1	66	0	2.28E-02
BIG2_g8735.t1	ARFGEF2	66.5	0	5.11E-03
BIG3_g7271.t1	ARFGEF3	131.5	0	7.89E-04
MSTRG.2049.2	ARFIP1	160	0	2.21E-04

MSTRG.2049.3	ARFIP1	59.5	0	1.97E-02
MSTRG.8865.4	ARFRP1	400	0	4.20E-06
ARH40_g10102.t1	ARH40_g10102.t1	269.5	0	3.09E-04
RHGBA_g12316.t1	ARHGAP11A	107.5	0	8.72E-04
RHG26_g16956.t1	ARHGAP26	152.5	0	3.94E-03
MSTRG.2929.1	ARHGAP28	8	57.5	5.09E-02
RHG29_g7091.t1	ARHGAP29	41	0	3.41E-02
RHG30_g6573.t1	ARHGAP30	52.5	0	1.53E-02
MSTRG.3633.2	ARHGAP31	0	185.5	2.09E-06
MSTRG.18627.2	ARHGAP32	1814.5	0	6.28E-08
RHG08_g10013.t1	ARHGAP8	99.5	0	1.12E-03
MSTRG.4800.2	ARHGDIA	790.5	0	1.08E-06
GDIR2_g5255.t2	ARHGDIB	338	0	7.81E-04
MSTRG.18681.4	ARHGEF12	3231.5	0	4.73E-09
ARHG2_g6695.t1	ARHGEF2	37	0	3.59E-02
ARHGP_g4779.t1	ARHGEF25	447.5	0	2.82E-06
ARG39_g11917.t1	ARHGEF39	73.5	0	3.51E-03
MSTRG.20376.5	ARHGEF4	628.5	0	9.06E-07
ARHG4_g21132.t1	ARHGEF4	71.5	0	9.08E-03
MSTRG.12449.2	ARIH1	0	398.5	8.86E-07
MSTRG.5672.2	ARL15	284	0	1.88E-05
MSTRG.4792.2	ARL16	237	0	8.17E-06
MSTRG.14658.4	ARL6IP4	118	0	5.91E-04
OGFD2_g15256.t1	ARL6IP4	155	9	1.56E-02
MSTRG.20831.2	ARMCX2	282.5	0	2.36E-05
ARMX2_g21586.t1	ARMCX2	35.5	0	3.90E-02
MSTRG.20830.1	ARMCX3	288.5	0	5.60E-05
ARMX6_g21583.t1	ARMCX6	8	139	3.28E-02
MSTRG.15446.2	ARPC2	0	206	1.83E-06
MSTRG.17565.3	ARPP21	76.5	0	5.21E-02
MSTRG.17565.5	ARPP21	76.5	0	5.21E-02
ARRD4_g12776.t1	ARRDC4	113.5	0	1.21E-03
MSTRG.10141.1	ARSA	103	0	1.96E-03
ARSA_g10067.t1	ARSA	116	0	5.95E-03
MSTRG.15970.2	ARSB	1596.5	11.5	6.76E-03
ARSD_g21956.t1	ARSD	42.5	0	2.72E-02
ARSG_g4474.t1	ARSG	178.5	0	1.94E-04
ASAH1_g11210.t1	ASAH1	198.5	0	7.02E-05
ASB15_g308.t1	ASB15	53	0	1.69E-02

ASB8_g5115.t2	ASB8	48.5	0	2.73E-02
MSTRG.20036.3	ASNSD1	235	0	1.05E-04
MSTRG.20036.5	ASNSD1	258	0.5	2.90E-04
MSTRG.13251.5	ASPH	298.5	0	2.04E-04
ECM2_g5891.t2	ASPN	47.5	0	2.23E-02
MSTRG.4809.3	ASPSCR1	1272.5	0	6.19E-07
MSTRG.1659.2	ASXL2	84	0	2.69E-03
MSTRG.1686.2	ATAD2B	86.5	0	2.28E-03
MSTRG.17951.3	ATE1	441.5	0	3.97E-06
MSTRG.17951.4	ATE1	367.5	0	2.15E-05
MSTRG.5078.3	ATF1	317	0	1.15E-05
MSTRG.5078.4	ATF1	237.5	0	3.79E-05
MSTRG.6573.2	ATF3	274.5	1530.5	2.02E-02
MSTRG.6647.1	ATF6	1580.5	0	1.77E-07
MSTRG.10674.1	ATF7IP2	426.5	0	3.20E-06
MSTRG.5058.2	ATG101	161	0	1.78E-04
MSTRG.13383.3	ATG13	0	270	1.35E-06
MSTRG.9706.3	ATG14	324.5	0	5.80E-04
MSTRG.15317.4	ATG16L1	217.5	0	6.47E-05
MSTRG.15317.2	ATG16L1	109.5	0	9.17E-04
MSTRG.15317.3	ATG16L1	182	18.5	3.31E-02
MSTRG.13554.2	ATG2A	1563	0	4.45E-08
ATG2A_g13992.t1	ATG2A	46.5	0	4.42E-02
MSTRG.7489.1	ATG5	0.5	54	1.57E-02
MX1_g1454.t1	ATL2	32	0	5.29E-02
ATLA3_g13953.t1	ATL3	38	0	4.75E-02
MSTRG.18814.1	ATM	536.5	0	1.83E-06
MSTRG.12272.7	ATOSA	571	0	1.25E-06
AT131_g5751.t1	ATP13A1	77.5	0	4.11E-03
AT132_g7806.t1	ATP13A2	145	0	2.52E-04
MSTRG.3538.4	ATP13A3	305	0	4.38E-05
MSTRG.3525.6	ATP1A1	1149.5	0	1.56E-07
AT1B1_g6327.t1	ATP1B1	54	0	1.68E-02
AT1B2_g3707.t1	ATP1B2	85.5	0	6.01E-03
MSTRG.4367.3	ATP5MC1	367	0	7.51E-05
ATP68_g9297.t1	ATP5MJ	89	0	2.33E-03
AT5F1_g21323.t1	ATP5PB	1453.5	0	2.08E-06
AT5F1_g6983.t1	ATP5PB	59	0	4.06E-02
MSTRG.10995.2	ATP5PF	133.5	0	1.29E-03

ATP5S_g11958.t1	ATP5S_g11958.t1	173.5	0	1.25E-04
MSTRG.1170.2	ATP8A2	42.5	0	2.38E-02
ATPG_g3496.t1	ATPG_g3496.t1	136	0	5.49E-04
MSTRG.17685.2	ATRIP	207	0	2.97E-06
MSTRG.17684.2	ATRIP	108.5	0	8.21E-04
ATRX_g21506.t1	ATRX	43.5	0	2.18E-02
ATS12_g21843.t1	ATS12_g21843.t1	7	77	3.11E-02
MSTRG.10411.5	AUTS2	1090.5	0	4.84E-07
UBP54_g4767.t1	AVIL	2	43	5.11E-03
AVPI1_g18792.t1	AVPI1	242	0	3.75E-05
MSTRG.14180.2	AXL	474	1	1.65E-05
B3GT6_g7611.t1	B3GALT6	4	46.5	1.33E-02
B3GA2_g2788.t1	B3GAT2	92.5	0	3.67E-03
B3GNL_g4700.t1	B3GNL_g4700.t1	49.5	0	1.41E-02
B3GN4_g15271.t1	B3GNT4	4367.5	0	2.50E-07
MSTRG.15397.4	B3GNT5	0	246	1.51E-06
MSTRG.15397.2	B3GNT5	276.5	0	1.84E-06
B3GN5_g3244.t2	B3GNT5	43	0	2.65E-02
MSTRG.4236.1	B3GNT5	698.5	70	3.13E-02
B3GN6_g19664.t1	B3GNT6	0	205.5	1.83E-06
MSTRG.3635.3	B4GALT4	0	238	1.56E-06
MSTRG.3635.1	B4GALT4	312	7	4.09E-02
BABA1_g5835.t1	BABAM1	189	0	8.99E-05
MSTRG.10924.3	BACE2	4.5	177	1.48E-02
MSTRG.10983.1	BACH1	469.5	0	3.09E-05
MSTRG.13538.1	BAD	84	0	2.66E-03
BAG1_g5971.t2	BAG1	385	0	2.23E-05
BAG4_g11284.t1	BAG4	979.5	0	2.41E-07
MSTRG.12144.2	BAHD1	291	0	3.82E-05
MSTRG.4770.2	BAIAP2	48.5	0	1.56E-02
BAIP2_g4637.t1	BAIAP2	627.5	9.5	2.31E-02
BANP_g13248.t1	BANP	263.5	0	3.00E-04
MSTRG.20193.5	BAZ2B	170.5	0	1.32E-04
MSTRG.20193.6	BAZ2B	102.5	0	5.11E-03
MSTRG.20193.7	BAZ2B	119	1	2.49E-02
BBLN_g11540.t1	BBLN	2686	0	1.16E-08
MSTRG.9770.2	BBS10	40	0	2.80E-02
MSTRG.3707.2	BBX	2824.5	52	1.88E-03
MSTRG.611.5	BCAP29	304	0	2.42E-05

MSTRG.611.4	BCAP29	182.5	0	1.00E-04
MSTRG.21055.3	BCAP31	313	0	4.08E-05
MSTRG.21055.2	BCAP31	269.5	0	1.38E-04
BCAR1_g13150.t1	BCAR1	244.5	0	4.11E-05
MSTRG.6941.1	BCAS2	113	9.5	2.90E-02
MSTRG.20698.1	BCKDHA	1376.5	0	7.77E-08
MSTRG.11133.2	BCKDHA	392.5	0	4.43E-04
MSTRG.8585.2	BCL2L1	618	4	1.01E-02
B2L14_g5284.t1	BCL2L14	3870	156.5	1.50E-04
B2L15_g6960.t1	BCL2L15	102	0	1.01E-03
MSTRG.6892.2	BCL9	191	0	2.75E-06
MSTRG.6892.3	BCL9	133	715	7.56E-03
MSTRG.6892.5	BCL9	10	570	2.81E-02
BEST4_g8276.t1	BEST4	417	8986	2.96E-04
BFAR_g10573.t1	BFAR	10	451	3.37E-02
BHA15_g10161.t1	BHLHA15	508.5	0	4.90E-05
BHE41_g5214.t1	BHLHE41	65.5	0	5.53E-03
BHMT1_g16601.t1	BHMT	168.5	2.5	7.29E-03
MSTRG.14756.1	BICDL1	237.5	0	3.30E-04
MSTRG.18846.1	BIRC3	0	252.5	1.46E-06
MSTRG.18846.4	BIRC3	250.5	0	1.12E-03
MSTRG.18846.2	BIRC3	234.5	0	6.89E-03
MSTRG.1594.2	BIRC6	1075	113.5	1.02E-02
MSTRG.802.2	BIVM	105.5	0	3.03E-03
K1109_g1776.t1	BLTP1	208	4	9.09E-04
MSTRG.4125.1	BLTP2	2487	37.5	8.32E-06
MSTRG.9855.6	BLTP3A	151.5	2102	1.17E-03
URFB1_g2544.t1	BLTP3A	1174.5	0	1.50E-07
MSTRG.9855.5	BLTP3B	2858.5	50	5.75E-07
MSTRG.9855.3	BLTP3B	440.5	0	8.80E-03
GO45_g6329.t1	BLZF1	5	52.5	1.08E-02
MSTRG.19189.1	BMAL1	321.5	0	2.28E-05
MSTRG.2246.2	BMP1	1010	0	6.19E-07
MSTRG.2246.3	BMP1	1342	0	1.82E-03
BMP15_g21376.t2	BMP15	187.5	0	8.91E-05
MSTRG.8490.1	BMP2	62.5	0	3.49E-02
BMP3_g20580.t1	BMP3	96	0	4.27E-03
MSTRG.19813.5	BMPR1B	739	0	2.01E-05
MSTRG.12325.3	BNIP2	0	219.5	1.70E-06

BNIP3_g18529.t1	BNIP3	37.5	0	5.07E-02
FAIM3_g3559.t1	BNIP5	77	0	3.96E-03
MSTRG.3664.2	BOC	45	0	2.99E-02
MSTRG.16510.2	BOD1	359.5	0	6.81E-06
MSTRG.16510.5	BOD1	226.5	0.5	2.25E-03
BOLA2_g10443.t1	BOLA2B	254.5	0	5.57E-05
MSTRG.3928.1	BORCS6	26	113.5	4.51E-02
MSTRG.2290.2	BPHL	177	0	7.81E-04
MSTRG.4597.7	BPTF	4280	0	4.73E-09
MSTRG.4597.6	BPTF	421.5	0	7.45E-04
MSTRG.4597.5	BPTF	545	2.5	9.51E-04
MSTRG.4597.4	BPTF	213.5	0.5	3.13E-02
BRAF_g192.t1	BRAF	139	0	4.58E-03
MSTRG.4490.3	BRCA1	410.5	0	4.10E-05
K2026_g6090.t1	BRD10	54	0	3.13E-02
K2026_g6089.t2	BRD10	39.5	0	3.37E-02
MSTRG.2652.7	BRD2	2691	0	6.77E-09
MSTRG.2652.3	BRD2	1995.5	0	4.45E-08
MSTRG.2652.4	BRD2	1345	0	9.48E-08
MSTRG.11441.2	BRD3	834.5	0	7.46E-07
BRD7_g12915.t1	BRD7	40.5	0	3.26E-02
MSTRG.5462.3	BRD9	389.5	0	6.27E-06
BRI3B_g15228.t1	BRI3B_g15228.t1	133	0	3.75E-04
BRI3B_g15657.t1	BRI3BP	35	0	4.05E-02
BRX1_g5574.t1	BRIX1	73	0	4.93E-03
BRMS1_g14062.t1	BRMS1	242	0	4.48E-05
MSTRG.17244.5	BRPF1	249	0	1.88E-04
MSTRG.17244.3	BRPF1	196	0	2.26E-04
MSTRG.17244.4	BRPF1	155.5	0	3.16E-04
MSTRG.17244.6	BRPF1	201	0	6.14E-03
BRSK1_g14221.t1	BRSK1	546	0	3.94E-06
BSND_g8163.t1	BSND	34.5	0	4.43E-02
HDHD3_g11722.t1	BSPRY	469.5	0	3.66E-06
BST2_g5826.t1	BST2	104	0	3.50E-03
MSTRG.16922.1	BTBD2	0	401	8.67E-07
MSTRG.8279.2	BTF3L4	726	0	6.17E-07
BT3L4_g8207.t1	BTF3L4	88.5	0	1.95E-02
BTG2_g6243.t1	BTG2_g6243.t1	1987	0	5.21E-08
MSTRG.10318.1	BUB3	139.5	0	9.66E-04

NINL_g7462.t1	BVES	47.5	610	5.28E-04
MSTRG.13661.3	C11ORF24	2	45	4.29E-03
MSTRG.18925.2	C11ORF54	178.5	0	2.07E-04
CL056_g4750.t2	C12ORF56	69.5	0	4.33E-03
MSTRG.12474.2	C15ORF39	969	0	7.10E-07
CP090_g10667.t1	C16ORF90	1610.5	0	4.14E-08
MSTRG.4646.2	C17ORF80	110	0	1.48E-03
MSTRG.3139.1	C18ORF21	36	0	3.79E-02
CS044_g5852.t1	C19ORF44	42	0	3.06E-02
MSTRG.14197.2	C19ORF47	184.5	0	3.09E-04
C1D_g1312.t1	C1D	68	0	1.43E-02
MSTRG.8169.4	C1ORF122	82.5	0	2.62E-03
CA216_g8066.t1	C1ORF216	4907	0	2.25E-07
C1QL3_g15130.t1	C1QL3	51	0	1.44E-02
MSTRG.4746.2	C1QTNF1	715.5	0	5.76E-05
C1QT2_g17057.t1	C1QTNF2	593.5	0	1.35E-06
MSTRG.5588.2	C1QTNF3	763	0	1.68E-05
C1RL_g5353.t1	C1RL	900.5	0	3.74E-07
MSTRG.18692.1	C2CD2L	400.5	0	2.10E-05
MSTRG.5255.4	C2CD5	681.5	0	1.25E-06
MSTRG.5255.1	C2CD5	469	0	2.41E-06
MSTRG.5255.2	C2CD5	417	0	4.19E-06
MSTRG.1233.1	C2ORF68	89.5	0	2.30E-03
T150A_g1172.t1	C2ORF68	40.5	0	3.01E-02
MSTRG.2677.1	C3ORF18	103.5	0	1.03E-03
SIM29_g2537.t1	C3ORF18	83	0	3.37E-03
CC070_g3276.t1	C3ORF70	32.5	0	5.08E-02
CE024_g16828.t1	C5ORF24	459	0	4.24E-06
CAC1S_g5639.t1	C5ORF34	601.5	0	1.23E-06
LEG1H_g7340.t1	C6ORF58	83	0	2.60E-02
CF062_g2189.t1	C6ORF62	71.5	0	1.08E-02
MSTRG.11398.2	C8G	45.5	0	2.23E-02
MSTRG.9231.2	C8ORF33	208	0	7.16E-05
MSTRG.6018.3	C9ORF72	397	0	1.28E-06
MSTRG.6018.5	C9ORF72	304	0	9.26E-05
CA100_g15902.t1	CA100_g15902.t1	35	0	4.57E-02
MSTRG.17630.1	CA5A	198.5	0	1.11E-04
MSTRG.7792.1	CA6	334	0	1.58E-05
MSTRG.14906.3	CABIN1	228.5	0	3.07E-06

CABYR_g2891.t1	CABYR	55	0	1.92E-02
H2B3A_g16519.t1	CACNA1A	220	0	7.13E-05
CAC1B_g11345.t1	CACNA1B	61.5	0	8.05E-03
MSTRG.17738.2	CACNA2D2	398	45	4.69E-02
MSTRG.4406.2	CACNB1	149.5	0	6.19E-04
MSTRG.14526.2	CACNB2	249.5	0	2.24E-03
CACB3_g5077.t1	CACNB3	596.5	0	1.25E-06
MSTRG.13606.1	CACNG4	1	27.5	1.77E-02
CACO1_g4958.t1	CALCOCO1	63.5	0	6.56E-03
MSTRG.18050.2	CALHM2	301	0	1.58E-06
MSTRG.15536.5	CALM1	0	407.5	8.29E-07
CALR_g8213.t1	CALR	129.5	0	4.49E-04
MSTRG.17246.3	CAMK1	238	0	5.90E-05
MSTRG.14481.2	CAMK1D	3615	61.5	3.27E-02
MSTRG.18392.1	CAMK2G	1.5	438.5	1.40E-06
MSTRG.18392.3	CAMK2G	435	0	5.25E-06
MSTRG.18392.2	CAMK2G	365	0	1.17E-05
CAMP1_g11407.t1	CAMSAP1	84.5	0	3.06E-03
MSTRG.3999.2	CAMTA2	56.5	809	1.27E-05
MSTRG.3999.3	CAMTA2	60	0	3.06E-02
CAP1_g8124.t1	CAP1	2	36.5	1.06E-02
MSTRG.10837.5	CAPN15	527	0	1.56E-06
MSTRG.10837.2	CAPN15	516.5	0	1.65E-06
MSTRG.10837.3	CAPN15	534	0	1.73E-06
MSTRG.5197.6	CAPRIN2	543.5	0	3.62E-06
MSTRG.5197.1	CAPRIN2	593.5	0	3.20E-05
CAPR2_g5186.t1	CAPRIN2	189	0	1.51E-04
MSTRG.17021.1	CAPS	47.5	0	1.67E-02
MSTRG.19919.2	CARF	50	0	2.59E-02
MSTRG.477.2	CASD1	210.5	0	7.62E-05
MSTRG.1853.2	CASP6	55.5	0	3.00E-02
MSTRG.16062.4	CAST	1184.5	14.5	4.58E-02
MSTRG.8604.2	CBFA2T2	400.5	0	4.37E-06
MSTRG.8604.3	CBFA2T2	664	0	4.87E-03
S26A4_g651.t2	CBLL1	0	566.5	1.78E-07
MSTRG.10911.1	CBS	40.5	0	2.95E-02
CBX5_g4947.t1	CBX5	179.5	0	1.46E-04
CC127_g9567.t1	CC127_g9567.t1	170.5	0	1.31E-04
C2D2A_g20298.t1	CC2D2A	2100.5	0	4.23E-07

MSTRG.3267.6	CCBE1	125	0	1.04E-03
MSTRG.13859.2	CCDC106	183.5	0	1.09E-04
CC106_g14375.t1	CCDC106	209.5	0	1.19E-03
MSTRG.11814.1	CCDC107	105.5	0	1.12E-03
CC125_g5734.t1	CCDC125	58	0	1.04E-02
MSTRG.5455.2	CCDC127	154	0	1.20E-03
CC154_g10761.t2	CCDC154	106.5	0.5	3.90E-03
MSTRG.14857.3	CCDC157	65.5	0	5.41E-03
MSTRG.14857.1	CCDC157	64.5	0	8.29E-03
STR6L_g11887.t1	CCDC180	54.5	0	2.36E-02
CC181_g6330.t1	CCDC181	79	0	2.97E-03
MSTRG.11406.2	CCDC183	210.5	0	5.59E-05
MSTRG.5839.3	CCDC194	316.5	0	1.12E-05
CC194_g5827.t2	CCDC194	156.5	0	2.17E-04
CCD27_g7668.t1	CCDC27	118.5	0	5.70E-04
MSTRG.3533.2	CCDC50	335.5	0	1.63E-06
MSTRG.14074.1	CCDC61	79	0	2.68E-03
MSTRG.3237.4	CCDC68	34	0	4.39E-02
MSTRG.14041.1	CCDC9	189	6	2.33E-03
MSTRG.14041.3	CCDC9	335.5	29	1.88E-02
CCD97_g14807.t1	CCDC97	44.5	0	3.60E-02
MSTRG.2587.1	CCHCR1	220.5	11.5	1.59E-03
MSTRG.9899.1	CCL22	28	159.5	1.33E-02
MSTRG.699.2	CCM2	182	0	1.07E-04
MSTRG.7511.1	CCNC	704.5	35.5	2.13E-04
CCNG1_g17068.t1	CCNG1	34	0	4.48E-02
MSTRG.16025.3	CCNH	64	0	6.01E-03
MSTRG.7676.2	CCNL2	1988	75	2.39E-02
MSTRG.20276.2	CCNT2	233.5	0	2.27E-06
MSTRG.14624.3	CCNY	10.5	130	8.47E-03
MSTRG.17653.1	CCRL2	243.5	0	1.98E-06
MSTRG.13624.5	CCS	35.5	0	4.23E-02
CCSE2_g19193.t2	CCSER2	78.5	1006	3.58E-02
TCPB_g4718.t1	CCT2	51	0	1.76E-02
CD123_g15104.t1	CD123_g15104.t1	68.5	0	4.56E-03
MSTRG.14657.2	CD19	1136.5	0	1.38E-07
MSTRG.14657.4	CD19	503	0	9.67E-07
MSTRG.6705.3	CD1D	384.5	0	4.91E-06
OX2G_g3466.t1	CD200	73.5	0	7.00E-03

MSTRG.552.1	CD36	22.5	152.5	4.66E-02
MSTRG.6625.2	CD55	56.5	0	1.02E-02
CD81_g14175.t1	CD81	90	0	1.63E-03
CD82_g13539.t1	CD82	1550	0	6.19E-08
CD86_g3406.t1	CD86	198	0	6.39E-04
MSTRG.8377.1	CDC20	2205	168.5	3.37E-03
MSTRG.13553.2	CDC42BPG	106.5	0	1.92E-02
MSTRG.16207.2	CDC42SE2	696	0	7.49E-07
MSTRG.16207.4	CDC42SE2	488	0	1.98E-06
MSTRG.14971.2	CDC45	155.5	0	1.99E-02
MSTRG.7118.2	CDC7	75	0	3.28E-03
CDC7_g7115.t1	CDC7	34	0	4.97E-02
MSTRG.2201.2	CDCA2	286.5	0	2.85E-05
MSTRG.2201.3	CDCA2	526	3.5	1.21E-02
MSTRG.5372.1	CDCA3	817.5	18	2.17E-03
MSTRG.5372.2	CDCA3	942.5	106.5	4.37E-02
MSTRG.20116.1	CDCA7	139.5	0	2.64E-03
MSTRG.12911.1	CDH1	153	0	1.85E-02
CAD11_g13009.t2	CDH11	2302.5	18	2.75E-02
CAD13_g13195.t1	CDH13	2269.5	53.5	2.06E-03
MSTRG.5533.2	CDH18	217.5	0	1.81E-03
CAD20_g3048.t2	CDH20	8463.5	201.5	3.13E-05
MSTRG.13703.1	CDH23	66.5	0	5.47E-02
MSTRG.12027.3	CDH24	282.5	0	1.98E-05
CADH6_g5552.t1	CDH6	1064.5	0.5	3.20E-07
CD11B_g7633.t2	CDK11B	40.5	0	3.09E-02
MSTRG.6385.2	CDK18	293.5	0	3.14E-06
SUOX_g4838.t3	CDK2	102.5	0	1.13E-02
MSTRG.5927.4	CDK20	177.5	0	2.65E-03
CDKA1_g15251.t1	CDK2AP1	65.5	3.5	3.51E-02
CDKA2_g14105.t1	CDK2AP2	163.5	0	2.20E-04
CK5P1_g8567.t1	CDK5RAP1	41	0	2.74E-02
MSTRG.11627.3	CDK5RAP2	465	0	9.50E-06
MSTRG.485.1	CDK6	1872	0	4.17E-07
CDK9_g11552.t1	CDK9	72	0	6.50E-03
CDKL2_g20539.t1	CDKL2	0	69.5	7.66E-04
MSTRG.18643.2	CDON	16	346	2.91E-05
CDS2_g8451.t1	CDS2_g8451.t1	73	0	1.00E-02
MSTRG.13094.2	CDT1	1500	0	1.57E-06

CEBPA_g14996.t1	CEBPA	58.5	0	1.20E-02
MSTRG.5437.2	CECR2	407	0	4.08E-04
CELF2_g22024.t1	CELF2	91.5	0	5.45E-03
CELR2_g6510.t1	CELR2_g6510.t1	55	0	1.22E-02
MSTRG.17691.2	CELSR3	180	0	3.97E-04
MSTRG.13129.9	CENPBD1P	145	0	2.56E-04
MSTRG.19871.4	CENPE	299	0	1.34E-05
MSTRG.19871.8	CENPE	238	2	1.70E-03
MSTRG.20813.2	CENPI	427.5	0	4.37E-06
MSTRG.5727.2	CENPK	193.5	0	2.11E-04
MSTRG.1677.1	CENPO	977	0	1.83E-05
CENPO_g1562.t1	CENPO	60.5	0	3.00E-02
MSTRG.7810.2	CENPS	155.5	0	1.94E-04
MSTRG.12879.1	CENPT	167.5	0	3.34E-04
MSTRG.12879.2	CENPT	144.5	0	4.13E-04
CENPV_g3615.t1	CENPV	44.5	0	2.02E-02
MSTRG.16170.3	CEP120	65.5	0	5.48E-03
MSTRG.4773.4	CEP131	147.5	0	4.39E-04
MSTRG.18720.3	CEP164	44	0	2.34E-02
C170B_g9312.t1	CEP170B	55	0	9.89E-03
MSTRG.2984.2	CEP192	641.5	0	2.49E-05
MSTRG.2984.3	CEP192	494.5	35	4.67E-02
MSTRG.18926.4	CEP295	251	0	2.07E-06
MSTRG.6518.2	CEP350	741.5	0	7.11E-07
CE350_g6403.t1	CEP350	48	0	1.59E-02
CEP41_g257.t1	CEP41	122	553.5	4.82E-02
MSTRG.1374.1	CEP68	11	110.5	2.76E-02
MSTRG.14389.1	CEP89	123	0	8.04E-04
MSTRG.4589.1	CEP95	345	10.5	9.59E-05
CERS1_g5776.t1	CERS1	37.5	0	4.58E-02
CERS2_g6835.t1	CERS2	62.5	0	8.10E-03
CERS3_g12765.t1	CERS3	60	0	3.71E-02
EST2_g13029.t1	CES2	21.5	131.5	1.58E-02
EST3_g13030.t1	CES3	191	0	2.00E-04
CFAH_g15779.t1	CFAH_g15779.t1	39.5	0	2.93E-02
CF251_g15275.t2	CFAP251	10	111.5	1.23E-03
CH037_g8946.t1	CFAP418	51.5	0	2.25E-02
CFA44_g3456.t1	CFAP44	12	1337	3.06E-06
CFA52_g3670.t1	CFAP52	6464.5	22.5	2.65E-15

MSTRG.3209.1	CFAP53	329	0.5	9.63E-05
CFA91_g3425.t2	CFAP91	99.5	0	1.14E-03
CFAB_g2470.t1	CFB	212.5	0	2.03E-04
CFAI_g1726.t1	CFI	155.5	0	5.68E-04
MSTRG.11106.1	CGGBP1	137.5	2.5	4.31E-04
MSTRG.12298.2	CGNL1	254	0	3.54E-03
MSTRG.12298.3	CGNL1	158.5	0	1.17E-02
CGRF1_g9659.t1	CGRRF1	2010	7	9.44E-03
MSTRG.12159.1	CHAC1	757.5	61.5	6.33E-03
MSTRG.3941.2	CHD3	0	2558	4.71E-09
MSTRG.3941.3	CHD3	0	883	5.02E-07
MSTRG.3941.7	CHD3	1639.5	3	6.48E-04
MSTRG.3941.5	CHD3	620	5	3.52E-02
MSTRG.13256.4	CHD7	1208.5	0	7.10E-07
MSTRG.13256.3	CHD7	772.5	0	9.56E-04
MSTRG.13256.2	CHD7	10	1447.5	5.06E-03
MSTRG.14826.2	CHEK2	252.5	0	3.38E-05
MSTRG.14826.4	CHEK2	243	0	2.62E-04
MSTRG.14826.3	CHEK2	180	0	1.68E-02
MSTRG.15031.2	CHFR	573.5	0	6.13E-06
RAE2_g15889.t1	CHML	61	0	8.14E-03
CHM1B_g21990.t1	CHMP1B	38	0	3.41E-02
CHM2A_g14257.t1	CHMP2A	860.5	8.5	4.85E-02
CHMP5_g5970.t1	CHMP5	66	0	1.03E-02
CHP1_g12365.t1	CHP1_g12365.t1	43	0	2.22E-02
CHP2_g10489.t1	CHP2	63	0	8.01E-03
MSTRG.20883.3	CHRDL1	921.5	0	1.77E-06
CRDL1_g21651.t1	CHRDL1	172.5	0	2.70E-04
MSTRG.20883.1	CHRDL1	1355.5	33.5	6.60E-04
ACHD_g16008.t1	CHRND	88.5	0	2.25E-03
CHSTF_g18580.t1	CHST15	42	0	2.83E-02
CHST7_g21319.t1	CHST7	3	191	5.13E-06
MSTRG.12914.2	CHTF8	399	9.5	9.86E-05
CHUR_g9577.t1	CHURC1	62	0	9.01E-03
CIA2A_g12552.t1	CIA2A_g12552.t1	97	0	5.83E-03
CIART_g6849.t1	CIART	197	0	8.30E-05
MSTRG.14162.1	CIC	1707.5	0	4.46E-08
MSTRG.14162.2	CIC	1881	0	6.70E-08
CINP_g9268.t1	CINP	674.5	46	9.28E-03

CITE2_g16229.t1	CITED2	12	390.5	1.31E-05
CITE4_g8140.t1	CITED4	130	0	3.30E-03
MSTRG.11541.3	CIZ1	291	0	6.01E-04
CK054_g19592.t1	CK054_g19592.t1	214	0	8.73E-05
CKAP4_g9823.t1	CKAP4	948.5	11056	1.34E-03
MSTRG.13388.3	CKAP5	0	2272.5	2.82E-07
MSTRG.13388.2	CKAP5	1896	0	5.07E-07
KCRM_g14715.t1	CKM	221.5	0	4.50E-05
KCRU_g12409.t1	CKMT1A	2889.5	142	2.61E-02
MSTRG.17562.1	CLASP2	2734.5	0	6.54E-09
MSTRG.14105.2	CLASRP	937.5	129	4.99E-02
MSTRG.13392.2	CLCC1	196	0	1.81E-04
MSTRG.2136.3	CLCN3	208.5	0	6.34E-05
CLD10_g863.t1	CLDN10	124	0	9.46E-03
CLD11_g3196.t1	CLDN11	45	0	1.98E-02
CLD15_g10274.t1	CLDN15	84	0	4.10E-03
CLD34_g21936.t1	CLDN34	33.5	0	4.74E-02
CLC11_g14524.t1	CLEC11A	38	0	3.22E-02
MSTRG.10672.5	CLEC16A	432	0	3.35E-06
MSTRG.10672.6	CLEC16A	380.5	0	8.13E-05
CL16A_g10604.t1	CLEC16A	19.5	137	1.71E-02
MSTRG.6700.1	CLHC1	0	24	3.56E-02
CLIC4_g7904.t1	CLIC4	496	0	3.25E-05
MSTRG.10390.5	CLIP2	562.5	0	1.28E-06
MSTRG.6741.3	CLK2	314.5	0	4.00E-05
MSTRG.6741.2	CLK2	114	0	7.26E-03
MSTRG.9331.1	CLMN	2006.5	10	3.08E-03
CSTN1_g7727.t1	CLSTN1	10.5	211	2.21E-03
CLVS2_g8218.t1	CLVS2_g8218.t1	1569.5	83	1.55E-02
CLYBL_g841.t1	CLYBL	59	0	3.13E-02
CMAH_g2194.t1	CMAHP	56	0	4.68E-02
CMC1_g20914.t1	CMC1_g20914.t1	43	0	4.46E-02
CKLF5_g12098.t1	CMTM5	0	165.5	2.55E-06
CKLF6_g18117.t1	CMTM6	101	0	1.08E-03
CNBP_g17784.t1	CNBP	95.5	0	5.37E-03
MSTRG.3303.2	CNDP2	203	0	1.63E-03
CNNM3_g16417.t1	CNNM3	80.5	0	2.61E-03
CNO11_g16452.t1	CNOT11	40	0	4.35E-02
MSTRG.4851.3	CNOT2	617.5	0	7.02E-06

MSTRG.4851.2	CNOT2	210.5	0	3.44E-03
MSTRG.169.1	CNOT4	40	0	2.98E-02
MSTRG.4451.2	CNP	808.5	2.5	5.59E-04
MSTRG.15421.2	CNPPD1	1283.5	0	5.24E-07
MSTRG.15421.3	CNPPD1	551.5	0	9.06E-07
MSTRG.15207.1	CNST	1378.5	190	3.43E-02
MSTRG.6070.3	CNTLN	229	0.5	2.90E-02
CNTN1_g5154.t1	CNTN1	93.5	0	1.97E-03
CNTN3_g17872.t1	CNTN3	51.5	0	1.78E-02
MSTRG.11615.3	CNTRL	2121	0	1.64E-08
MSTRG.11615.2	CNTRL	124.5	0	4.62E-04
MSTRG.11615.1	CNTRL	240	919.5	3.85E-02
MSTRG.18512.1	COA6	58	0	2.38E-02
COBL_g704.t1	COBL	97	0	1.57E-03
MSTRG.772.1	COL4A1	0	5406.5	2.53E-07
MSTRG.20875.2	COL4A5	971	0	6.19E-07
COL11_g1669.t1	COLEC11	174	0	1.36E-04
GT251_g5816.t1	COLGALT1	6	240.5	1.58E-02
COMD1_g1340.t1	COMMD1	201.5	0	4.81E-04
COPG1_g22126.t1	COPG1	12	2853.5	4.01E-04
CSN4_g20591.t1	COPS4	13	250.5	4.31E-03
MSTRG.4376.1	COPZ2	33	0	4.99E-02
MSTRG.3887.1	COX10	886.5	0	3.28E-07
COX42_g8538.t1	COX4I2	107.5	1.5	3.61E-02
CP2DE_g22167.t1	CP2DE_g22167.t1	144.5	0	4.32E-04
CP2DE_g9981.t1	CP2DE_g9981.t1	97	0	1.47E-03
MSTRG.5609.1	CPLANE1	1207.5	0	1.37E-07
MSTRG.5609.4	CPLANE1	742.5	0	1.83E-06
CPLN1_g5591.t1	CPLANE1	356.5	0	1.27E-05
MSTRG.12446.1	CPPED1	111.5	0	1.15E-03
MSTRG.9202.2	CPSF1	510.5	0	9.58E-07
MSTRG.4857.2	CPSF6	3514	0	3.19E-09
CPZIP_g6313.t1	CPZIP_g6313.t1	67	0	1.05E-02
CRADD_g9749.t1	CRADD	66	0	6.32E-03
CRUM3_g17734.t1	CRB3	201.5	0	7.12E-05
RAD18_g6790.t1	CRCT1	144	1809.5	6.43E-03
MSTRG.19885.10	CREB1	250.5	0	3.96E-05
MSTRG.19885.5	CREB1	154	0	2.72E-04
ZHANG_g19627.t1	CREBZF	39.5	0	3.53E-02

CREG1_g6312.t1	CREG1	109.5	0	2.35E-03
MSTRG.10121.1	CRELD2	1153	0	2.37E-04
CRIM1_g1471.t1	CRIM1	454	0	4.20E-06
MSTRG.1583.1	CRIM1	7.5	2887	1.01E-03
MSTRG.9313.1	CRIP1	58	0	1.01E-02
MSTRG.2783.3	CRIP3	50.5	0	1.35E-02
MSTRG.2783.2	CRIP3	39.5	0	2.86E-02
CROCC_g7804.t1	CROCC	312	0	2.01E-05
MSTRG.7878.3	CROCC	77.5	0	2.89E-03
MSTRG.424.3	CRPPA	76.5	0	4.32E-03
CRY2_g13549.t1	CRY2	1128	0	3.09E-07
CRYAB_g19492.t1	CRYAB	1044	33.5	1.85E-02
MSTRG.18559.1	CSGALNACT2	153	0	2.33E-02
CSMD2_g8042.t1	CSMD2	240.5	16	3.56E-02
MSTRG.4822.2	CSNK1D	2066.5	0	2.00E-08
MSTRG.12376.2	CSNK1G1	230.5	0	2.71E-03
CSK22_g12990.t1	CSNK2A2	73	0	8.35E-03
CYTC_g8349.t1	CST3	205.5	4291	4.80E-03
MSTRG.10897.1	CSTB	44	0	2.81E-02
MSTRG.20809.3	CSTF2	279	0	2.55E-04
MSTRG.19307.2	CTBP1	5.5	213.5	4.08E-02
MSTRG.17922.4	CTBP2	566	0	4.52E-06
MSTRG.12875.1	CTCF	341.5	0	2.74E-04
CTDP1_g3110.t1	CTDP1	224	0	5.12E-05
MSTRG.3331.3	CTDP1	105.5	0	8.87E-04
MSTRG.15439.2	CTDSP1	1412.5	0	6.45E-08
CTDS2_g4766.t1	CTDSP2	42.5	0	3.53E-02
MSTRG.12215.3	CTDSPL2	966	0	3.32E-07
CGL_g7208.t1	CTH	196	0	1.06E-04
CTHR1_g8988.t1	CTHRC1	189	0	8.60E-05
CTIF_g2986.t1	CTIF	54	0	1.13E-02
MSTRG.1266.2	CTNNA2	234.5	2080.5	4.54E-02
MSTRG.6829.1	CTSS	35.5	0	4.03E-02
MSTRG.16849.1	CTXN1	50	0	1.62E-02
MSTRG.86.2	CUL1	1391	2	6.91E-05
CUL2_g15220.t1	CUL2	33	0	5.34E-02
MSTRG.2781.4	CUL9	541.5	0	5.93E-06
C19L2_g19526.t2	CWF19L2	175.5	0	1.27E-04
MSTRG.20677.1	CWH43	15.5	82.5	4.37E-02

MSTRG.19686.1	CXCL3	112	0	1.56E-02
CXCL9_g20545.t1	CXCL9	45	0	2.47E-02
MSTRG.13452.2	CYB561A3	98	0	2.50E-02
NB5R2_g19990.t1	CYB5R2	376.5	0	2.77E-05
MSTRG.12762.3	CYLD	54	0	1.11E-02
MSTRG.1557.1	CYP1B1	62	0	6.72E-03
MSTRG.1835.2	CYP2U1	144.5	0	4.32E-02
CP4F3_g10833.t1	CYP4F3	98.5	0	5.93E-03
CP7A1_g13440.t2	CYP7A1	32	321.5	1.12E-03
MSTRG.175.2	CYREN	198	0	7.12E-05
CYREN_g16662.t1	CYREN_g16662.t1	54.5	0	3.50E-02
DAAM1_g9622.t1	DAAM1	228.5	0	1.43E-04
MSTRG.2731.2	DAAM2	920.5	0	4.23E-07
MSTRG.2731.3	DAAM2	241.5	0	2.00E-06
MSTRG.16901.1	DAZAP1	1001	0	2.12E-07
MSTRG.16901.4	DAZAP1	178.5	0	1.12E-04
DB108_g11154.t1	DB108_g11154.t1	58	0	9.41E-03
DBND2_g8691.t1	DBNDD2	38.5	0	4.71E-02
MSTRG.12010.4	DCAF11	211.5	0	2.27E-04
DCA15_g17250.t1	DCAF15	62	0	6.60E-03
MSTRG.4569.2	DCAF7	188.5	0	8.97E-05
DCBD2_g3533.t2	DCBLD2	46.5	0	1.77E-02
PCD16_g19974.t1	DCHS1	113.5	0	1.27E-03
DCP1A_g18408.t1	DCP1A	0	420.5	1.35E-06
MSTRG.5429.2	DCP1B	39	0	5.22E-02
MSTRG.18637.3	DCPS	337.5	0	1.16E-05
DCSTP_g8996.t1	DCSTAMP	190.5	0	1.46E-03
DCTN6_g11252.t1	DCTN6	34	0	5.16E-02
MSTRG.755.2	DCUN1D2	551	0	1.91E-06
DCNL2_g776.t1	DCUN1D2	421	0	6.20E-06
MSTRG.755.4	DCUN1D2	170.5	0	1.62E-04
MSTRG.755.5	DCUN1D2	144	0	7.56E-04
MSTRG.755.9	DCUN1D2	540	6.5	1.79E-02
MSTRG.19560.1	DCUN1D4	158.5	0	3.11E-04
MSTRG.18840.3	DCUN1D5	63.5	0	1.19E-02
MSTRG.9730.6	DDHD1	189.5	0	9.18E-05
MSTRG.9730.3	DDHD1	154.5	0	7.35E-04
MSTRG.18969.2	DDIAS	195	0	6.78E-03
DDIT3_g4786.t1	DDIT3	1162.5	0	1.24E-04

OST48_g7854.t1	DDOST	123	0	1.44E-03
MSTRG.8534.2	DDRGK1	319	0	1.57E-06
MSTRG.5416.2	DDX11	738.5	0	8.48E-07
DDX17_g9906.t1	DDX17	129	0	1.50E-02
DDX18_g21069.t3	DDX18	1545	58.5	1.11E-04
DD19B_g13135.t1	DDX19B	77.5	0	9.58E-03
DDX20_g6978.t1	DDX20	954	0	6.25E-07
MSTRG.5111.1	DDX23	550	0	6.45E-06
DDX24_g9369.t1	DDX24	41.5	0	3.44E-02
DDX28_g12994.t1	DDX28	361.5	0	7.98E-06
MSTRG.16259.2	DDX46	1054.5	0	6.19E-07
MSTRG.18330.3	DDX50	251.5	0	5.14E-04
MSTRG.10841.2	DECR2	119	0	1.10E-03
MSTRG.14156.2	DEDD2	164	0	4.77E-04
CRIS1_g16944.t1	DELE1	40	0	4.76E-02
MSTRG.17966.1	DENND10	241	0	7.25E-05
MSTRG.6975.1	DENND2D	42	0	2.38E-02
MSTRG.12407.1	DENND4A	576.5	0	1.17E-06
MSTRG.6788.2	DENND4B	358.5	0	1.41E-06
DEP1A_g7214.t1	DEPDC1	96	0	4.66E-03
MSTRG.5706.1	DEPDC1B	309.5	0	4.11E-03
DEPD4_g9781.t1	DEPDC4	53	0	1.15E-02
MSTRG.14891.4	DEPDC5	1051.5	0	2.53E-07
MSTRG.14891.2	DEPDC5	195.5	1430	1.75E-02
DER_g17772.t1	DER_g17772.t1	23.5	721.5	2.75E-06
DEOC_g5249.t1	DERA	60.5	0	1.64E-02
DESI1_g9957.t1	DESI1	289	0	1.44E-04
DFFA_g1455.t1	DFFA	153.5	0	3.79E-04
DFFA_g7734.t1	DFFA	126	537.5	1.91E-02
MSTRG.14983.2	DGCR8	478.5	0	2.27E-06
DGUOK_g1242.t1	DGUOK	189	2	3.83E-02
MSTRG.1311.1	DGUOK	859	38.5	4.59E-02
DHB13_g20613.t1	DHB13_g20613.t1	114.5	0	2.42E-03
MSTRG.13681.2	DHCR7	1156	0	4.89E-06
DHYS_g17294.t1	DHPS	109.5	0	7.61E-04
DHR13_g3922.t1	DHRS13	81	0	4.27E-03
DHRS3_g7765.t1	DHRS3	193	0	1.24E-04
DHRS7_g9612.t1	DHRS7	54	0	1.05E-02
MSTRG.14038.1	DHX34	120	0	1.01E-03

DHX36_g17913.t1	DHX36	77.5	0	3.00E-03
MSTRG.12941.1	DHX38	1734.5	0	3.50E-08
MSTRG.12941.2	DHX38	18	525	3.18E-06
MSTRG.17754.2	DHX58	123	0	5.78E-04
PCBP4_g18372.t2	DHX58	270.5	0	2.03E-04
MSTRG.14673.1	DIABLO	57.5	0	1.44E-02
DIAP1_g16938.t2	DIAPH1	2187.5	0	2.62E-08
MSTRG.16371.3	DIAPH1	973	3.5	3.43E-05
MSTRG.969.2	DIAPH3	926	0	7.18E-07
MSTRG.8850.5	DIDO1	165	0	1.99E-04
DIM1_g5703.t1	DIMT1	32	0	5.40E-02
MSTRG.14424.3	DIP2C	92	0	2.14E-03
DIK2A_g17963.t1	DIPK2A	31.5	0	5.40E-02
MSTRG.15326.2	DIS3L2	325	0	9.93E-06
DISC1_g19072.t1	DISC1	377.5	0	6.17E-06
DIXC1_g19489.t1	DIXC1_g19489.t1	50	0	1.37E-02
MSTRG.13981.1	DKKL1	183.5	0	1.23E-04
RHG07_g11230.t1	DLC1	32	0	5.24E-02
DLDH_g654.t2	DLD	96.5	0	2.11E-03
MSTRG.3548.2	DLG1	417	0.5	2.89E-05
MSTRG.3548.6	DLG1	733	30	6.07E-03
DLG3_g21464.t1	DLG3	16.5	147.5	8.73E-03
MSTRG.3980.4	DLG4	198	0	9.24E-05
MSTRG.3980.2	DLG4	159	0	2.12E-04
MSTRG.9478.2	DLST	483.5	0	1.03E-06
DLX5_g517.t2	DLX5	58.5	0	1.34E-02
MSTRG.8351.1	DMAP1	177.5	0	1.17E-04
DMBX1_g8247.t1	DMBX1	74.5	0	6.85E-03
DMD_g21268.t1	DMD_g21268.t1	110.5	0	9.88E-04
MSTRG.537.3	DMTF1	205.5	1.5	4.34E-03
MSTRG.537.5	DMTF1	8.5	106	9.18E-03
MSTRG.537.1	DMTF1	712	29.5	1.92E-02
MSTRG.18320.3	DNA2	77	0	2.20E-02
KTU_g11967.t1	DNAAF2	7	369.5	6.39E-03
DYH1_g18383.t1	DNAH1	197.5	0	3.76E-04
DYH2_g3705.t2	DNAH2	521.5	40.5	1.56E-02
TARSH_g10521.t1	DNAH3	69	0	9.19E-03
DNJA4_g12701.t1	DNAJA4	57	0	9.66E-03
MSTRG.19840.6	DNAJB14	139.5	0	2.99E-04

MSTRG.17486.3	DNAJC13	794	0	6.88E-07
MSTRG.17486.2	DNAJC13	644.5	0	1.24E-04
MSTRG.4998.2	DNAJC14	45	0	2.99E-02
MSTRG.577.3	DNAJC2	240	0	5.38E-05
MSTRG.11668.4	DNAJC25	229.5	0	2.13E-06
DJC28_g10978.t2	DNAJC28	71.5	0	3.94E-03
MSTRG.13534.2	DNAJC4	72.5	0	3.70E-03
MSTRG.9981.5	DNAL4	206.5	0	4.93E-04
MSTRG.9981.1	DNAL4	54.5	0	1.48E-02
MSTRG.9981.3	DNAL4	521.5	50.5	2.17E-02
MSTRG.19129.6	DNHD1	963	0	6.44E-07
MSTRG.19129.4	DNHD1	298	0	3.06E-06
MSTRG.19129.3	DNHD1	4829	549.5	3.77E-02
DNLZ_g11414.t1	DNLZ	541.5	0	1.66E-06
MSTRG.5190.4	DNM1L	191	0	8.36E-05
MSTRG.830.4	DOCK9	804	0	4.39E-07
DOCK9_g847.t1	DOCK9	49	0	1.45E-02
MSTRG.4050.3	DPH1	286.5	0	2.95E-05
MSTRG.7046.2	DPH5	120	0	5.40E-04
MSTRG.7046.3	DPH5	83.5	0	2.21E-03
MSTRG.13620.3	DPP3	491.5	0	3.99E-05
MSTRG.12395.3	DPP8	522	0	1.64E-06
MSTRG.12395.2	DPP8	502	0	4.38E-06
MSTRG.17003.3	DPP9	877	0	4.38E-06
MSTRG.321.2	DPY19L1	159	0	7.13E-04
MSTRG.14401.4	DPY19L3	283	0	1.80E-06
DRAM1_g9795.t2	DRAM1	56.5	313.5	3.71E-02
DRG1_g15503.t1	DRG1	102	0	1.49E-03
MSTRG.3827.1	DRG2	538.5	0	2.17E-06
DRG2_g3591.t1	DRG2	53	0	2.48E-02
DCC1_g9046.t1	DSCC1	47	0	1.68E-02
MSTRG.2870.1	DST	3731.5	69.5	1.43E-05
MSTRG.2870.4	DST	474	4085.5	2.83E-04
DYST_g2760.t1	DST	91	0	2.52E-02
DTNB_g8913.t1	DTNB	83.5	0	6.22E-03
DTX4_g13801.t1	DTX4	35	0	4.09E-02
MSTRG.4816.1	DUS1L	266.5	0	2.19E-05
MSTRG.4816.5	DUS1L	128	0	4.83E-04
MSTRG.4816.6	DUS1L	76	0	3.48E-03

MSTRG.12895.1	DUS2	68.5	0	4.57E-03
DUS11_g1245.t1	DUSP11	133.5	0	2.08E-03
DUS7_g18376.t2	DUSP7	756.5	0	7.10E-07
DUT_g672.t1	DUT_g672.t1	112	0	7.04E-04
THBG_g797.t1	DYNC1H1	0	552.5	6.81E-07
MSTRG.20131.2	DYNC1I2	285	0	1.64E-05
DYLT1_g9448.t1	DYNLT1	2	62	5.02E-02
MSTRG.3694.1	DZIP3	459	0	2.89E-06
MSTRG.3694.5	DZIP3	177.5	0	1.12E-04
MSTRG.2384.2	E2F3	68	0	7.22E-03
MSTRG.2384.4	E2F3	238	0	1.89E-02
SYEM_g10496.t1	EARS2	70	0	4.23E-03
KLK14_g14511.t1	EARS2	114	0	1.86E-03
ECH1_g14871.t1	ECH1	326	0	1.36E-05
MSTRG.21173.2	ECHDC1	59	0	1.22E-02
ECHD3_g15097.t1	ECHDC3	65	0	3.87E-02
CF201_g2092.t1	ECI2	353.5	0	3.11E-05
ATL4_g6842.t2	ECM1	212	0	5.72E-05
MSTRG.11671.5	ECPAS	0	50	5.35E-02
MSTRG.3432.3	ECT2	1414.5	0	6.81E-07
MSTRG.3432.4	ECT2	419	0	3.99E-06
MSTRG.3432.6	ECT2	275	0	3.42E-05
ECT2L_g7266.t1	ECT2L	65.5	0	2.37E-02
EDF1_g11390.t2	EDF1	47	0	1.79E-02
MSTRG.14098.1	EEIG1	262	0	1.02E-04
MSTRG.7025.2	EEIG2	391.5	0	1.38E-05
MSTRG.7025.1	EEIG2	15.5	212.5	8.31E-04
MSTRG.21467.1	EEPD1	115.5	0	7.57E-04
FBLN3_g1362.t1	EFEMP1	115	0	2.59E-03
EFG_g7085.t1	EFG_g7085.t1	109.5	0	2.41E-02
EFHC2_g21311.t1	EFHC2	64	0	5.89E-03
MSTRG.12709.3	EFL1	388	0	9.36E-06
MSTRG.12709.4	EFL1	297.5	0	3.10E-05
MSTRG.655.3	EGFR	845.5	43.5	5.22E-04
EGLN1_g19070.t1	EGLN1	45	0	1.99E-02
EGR2_g18927.t1	EGR2	165	0	2.03E-04
MSTRG.2230.1	EGR3	82.5	826	5.40E-03
MSTRG.1387.1	EHBP1	35.5	0	5.22E-02
EHMT1_g11347.t1	EHMT1	13	106.5	1.68E-02

MSTRG.1214.1	EIF2AK3	44.5	0	4.97E-02
E2AK4_g12335.t1	EIF2AK4	22.5	5467.5	6.38E-05
MSTRG.3483.2	EIF2B5	327.5	1	1.20E-03
MSTRG.19645.1	EIF2S2	150	11	4.22E-02
IF2H_g21413.t1	EIF2S3	36.5	0	3.58E-02
MSTRG.12218.1	EIF3J	46	0	1.78E-02
IF4A2_g3295.t1	EIF4A2	245	0	9.92E-05
MSTRG.3519.1	EIF4A2	565.5	0	1.20E-03
IF4E2_g16005.t1	EIF4E2	201	0	6.70E-05
MSTRG.14885.2	EIF4ENIF1	296.5	0	1.74E-06
MSTRG.14885.3	EIF4ENIF1	0	333.5	2.60E-05
MSTRG.3498.3	EIF4G1	8273.5	0	5.32E-09
MSTRG.7932.2	EIF4G3	907	0	5.63E-06
MSTRG.7932.1	EIF4G3	113.5	1343	3.54E-05
IF4G3_g7859.t1	EIF4G3	50.5	0	1.45E-02
ELAV1_g17518.t2	ELAVL1	147.5	0	1.34E-03
ELAV2_g6001.t1	ELAVL2	2456.5	0	9.93E-09
MSTRG.1966.6	ELF2	0	590.5	6.57E-07
ELF2_g1813.t1	ELF2	425.5	0	1.78E-04
ELF3_g15732.t1	ELF3	388.5	0	1.82E-04
MSTRG.10744.1	ELOB	148.5	0	2.30E-04
MSTRG.10743.1	ELOB	79	0	4.96E-03
MSTRG.9801.2	ELP1	482	0	4.87E-06
MSTRG.21070.1	EMD	249	0	2.84E-05
EMAL6_g1374.t1	EML6	40	0	3.19E-02
EMP2_g22349.t1	EMP2_g22349.t1	1008	0	3.12E-07
MSTRG.19004.3	EMSY	438	0	3.93E-06
MSTRG.15180.3	ENAH	0.5	573	3.30E-02
ENOB_g3769.t1	ENO3	163	3.5	2.75E-02
ENO4_g18639.t1	ENO4	204	0	1.43E-03
ENOPH_g20585.t1	ENOPH1	54.5	0	3.14E-02
ENPP3_g7320.t1	ENPP3	164.5	0	4.83E-04
MSTRG.9505.5	ENTPD5	0	432.5	8.21E-07
MSTRG.9505.3	ENTPD5	142	0	4.84E-03
MSTRG.11378.1	ENTPD8	146	0	3.44E-04
MSTRG.15018.1	EP400	390.5	0	1.30E-06
MSTRG.21641.2	EP400	1139	6	9.98E-03
EP400_g15684.t1	EP400_g15684.t1	376	0	3.26E-05
MSTRG.2917.2	EPB41L3	120.5	0	7.62E-04

MSTRG.2917.4	EPB41L3	101.5	0	1.15E-03
MSTRG.11673.3	EPB41L4B	137.5	0	3.83E-04
MSTRG.20307.4	EPB41L5	239	0	1.39E-04
EPC1_g15209.t1	EPC1	240.5	0	3.28E-05
MSTRG.14609.3	EPC1	1788	257.5	4.45E-02
EPCAM_g1398.t1	EPCAM	189	0	1.08E-03
EPHB4_g10240.t1	EPHB4	174	5.5	1.71E-03
EPN1_g14373.t1	EPN1	104.5	0	9.65E-04
MSTRG.9173.1	EPPK1	60	0	1.87E-02
EP15R_g5854.t1	EPS15L1	37	0.5	4.59E-02
ERAL1_g3924.t1	ERAL1	68	0	4.87E-03
RASE_g21345.t1	ERAS	177.5	8.5	9.85E-03
ERCC5_g827.t1	ERCC5	106	0	8.64E-04
EREG_g20530.t1	EREG	38.5	0	3.16E-02
MSTRG.9458.2	ERG28	45	0	3.92E-02
MSTRG.14174.2	ERICH4	615	1.5	2.27E-06
MSTRG.18107.2	ERLIN1	509	0	3.28E-06
MSTRG.18107.4	ERLIN1	130	0	3.90E-04
MSTRG.18107.3	ERLIN1	83.5	0	2.59E-03
MSTRG.11265.2	ERLIN2	698	83	1.72E-02
MSTRG.1017.2	ESD	5	653	1.12E-02
MSTRG.5043.5	ESPL1	509.5	0	1.78E-05
ERR1_g13977.t1	ESRRA	64	0	9.34E-03
MSTRG.6709.2	ETV3	152.5	0	2.59E-04
ETV3L_g6661.t1	ETV3L_g6661.t1	41.5	0	2.63E-02
MSTRG.7109.2	EVI5	737.5	0	1.20E-06
MSTRG.8385.3	EVI5	382	0	1.33E-06
EVI5L_g17524.t1	EVI5L	35	0	5.29E-02
MSTRG.9578.5	EXD2	0	201	1.88E-06
EXOC1_g20442.t1	EXOC1	37.5	0	3.31E-02
MSTRG.5458.1	EXOC3	873.5	0	5.57E-07
MSTRG.18189.6	EXOC6	45.5	0	2.28E-02
MSTRG.1332.1	EXOC6B	396	2	6.83E-05
MSTRG.17589.4	EXOG	249	0	4.33E-05
MSTRG.17589.3	EXOG	308.5	0	1.28E-02
EXOS5_g14803.t2	EXOS5_g14803.t2	60.5	0	1.26E-02
MSTRG.2172.2	EXTL3	536.5	0	3.30E-06
MSTRG.4475.2	EZH1	41.5	375	1.25E-02
PAR4_g5843.t2	F2RL3	42	0	3.50E-02

FA8_g21923.t1	F8	36.5	277	4.82E-02
FABP4_g13344.t1	FABP4	52.5	3.5	5.43E-02
FADS3_g13898.t1	FADS3	196.5	0	1.50E-04
FAHD1_g10744.t1	FAHD1	69	0	5.27E-03
MSTRG.17821.2	FAM107A	106.5	517	5.23E-02
MSTRG.14503.2	FAM107B	340	0	1.45E-06
F111B_g13799.t1	FAM111B	272	0	2.58E-05
MSTRG.19921.3	FAM117B	6463	0	1.91E-07
F117B_g20738.t1	FAM117B	254	0	2.03E-06
MSTRG.10089.4	FAM118A	524.5	0	1.67E-06
F133B_g542.t1	FAM133B	36.5	0	3.58E-02
FA13A_g22026.t1	FAM13A	248.5	0	4.90E-05
MSTRG.19786.4	FAM13A	243.5	0	3.12E-04
MSTRG.19786.6	FAM13A	115.5	0	9.71E-04
MSTRG.19786.7	FAM13A	4771	68.5	3.15E-03
MSTRG.19786.2	FAM13A	759	4014	1.09E-02
MSTRG.16272.5	FAM13B	333.5	0	1.85E-05
MSTRG.16272.6	FAM13B	324	0	4.02E-05
F149A_g11199.t1	FAM149A	44.5	0	2.62E-02
FA156_g21393.t1	FAM156A	67	681.5	1.72E-03
MSTRG.1408.1	FAM161A	44	0	2.68E-02
F161B_g9500.t1	FAM161B	102	0	1.05E-03
MSTRG.19043.1	FAM168A	1859	0	3.61E-08
F1712_g4375.t1	FAM171A2	62.5	0	6.51E-03
F200B_g20302.t1	FAM200B	63	0	7.82E-03
MSTRG.16465.1	FAM200C	5	188.5	5.88E-04
F217B_g8825.t1	FAM217B	70	0	6.71E-03
MSTRG.5964.2	FAM219A	69	0	4.85E-03
MSTRG.12470.2	FAM219B	224.5	0	4.63E-05
MSTRG.14215.1	FAM227A	2341.5	7.5	4.31E-03
FAM3D_g18441.t1	FAM3D	452.5	0	4.63E-06
FA83D_g8645.t1	FAM83D	66.5	0	5.83E-03
MSTRG.1577.2	FAM98A	55	0	2.22E-02
MSTRG.17200.3	FANCD2	468.5	0	6.10E-06
MSTRG.11830.4	FANCG	5017	0	3.85E-09
MSTRG.11830.2	FANCG	5059	0	3.16E-08
VRK2_g1358.t1	FANCL	546.5	14124.5	4.14E-03
MSTRG.1422.1	FANCL	41.5	0	2.67E-02
MSTRG.836.2	FARP1	483	0	4.37E-06

SYFB_g16066.t1	FARSB	391	0	2.03E-05
FAS_g4678.t1	FASN	49.5	0	3.13E-02
FASTK_g50.t2	FASTK_g50.t2	154	0	2.97E-03
FAKD1_g20936.t2	FASTKD1	65	0	1.10E-02
FAKD3_g5515.t2	FASTKD3	99	0	5.25E-03
MSTRG.11189.3	FAT1	773.5	0	6.96E-07
FATE1_g22341.t1	FATE1_g22341.t1	227	0	1.97E-03
MSTRG.10090.1	FBLN1	39.5	0	3.04E-02
MSTRG.10473.2	FBRS	38.5	0	3.10E-02
FBX25_g11114.t1	FBX25_g11114.t1	78.5	0	1.00E-02
MSTRG.21027.5	FBXL17	2732	0	2.56E-08
MSTRG.16090.2	FBXL17	286	0	3.20E-06
MSTRG.21027.4	FBXL17	17	308	1.38E-04
MSTRG.9196.3	FBXL6	380.5	0	1.33E-05
MSTRG.14746.3	FBXO21	435.5	0	3.30E-05
MSTRG.12499.3	FBXO22	1105	0	2.69E-06
FBX34_g9652.t1	FBXO34	701.5	84	3.46E-02
MSTRG.16387.1	FBXO38	485	0	1.22E-04
MSTRG.16387.2	FBXO38	412.5	0	4.68E-04
MSTRG.7868.3	FBXO42	1075	0	1.16E-03
FBX6_g7749.t1	FBXO6	151.5	0	5.30E-04
FBX7_g9840.t1	FBXO7	159.5	0	2.08E-04
FBXW2_g11686.t1	FBXW2	164	0	1.20E-03
FBXW4_g18738.t2	FBXW4	129.5	0	4.44E-04
FBXW9_g4680.t1	FBXW9_g4680.t1	282.5	0	1.70E-05
MSTRG.13978.2	FCGRT	328	0	9.17E-06
MSTRG.6742.2	FDPS	683.5	0	1.35E-06
MSTRG.6742.1	FDPS	31	328	7.57E-04
FDX2_g17355.t1	FDX2	178	0	3.38E-04
MSTRG.20944.1	FER	536.5	0	2.25E-04
MSTRG.20944.2	FER	88.5	805	2.43E-04
MSTRG.15778.2	FER1L5	150.5	0	2.35E-04
FGD5_g17848.t1	FGD5	794.5	0	4.47E-07
MSTRG.17952.1	FGFR2	0	33.5	5.20E-02
IDUA_g20183.t2	FGFRL1	212.5	0	2.10E-04
MSTRG.19115.3	FHIP1B	0	217.5	1.74E-06
MSTRG.17830.1	FHIT	51.5	0	1.27E-02
MSTRG.15838.2	FHL2	436	0.5	7.35E-06
MSTRG.14812.2	FICD	858	0	8.07E-05

MSTRG.683.2	FIGNL1	501	0	6.71E-06
MSTRG.683.1	FIGNL1	228.5	0	3.57E-04
MSTRG.683.3	FIGNL1	99.5	0	3.80E-02
FJX1_g13513.t1	FJX1	184	0	1.23E-04
MSTRG.4442.1	FKBP10	847.5	0	6.68E-07
MSTRG.13536.2	FKBP2	166	0	2.10E-04
MSTRG.2698.1	FKBP5	1373	0	1.24E-07
MSTRG.2698.3	FKBP5	431	0	1.17E-06
MSTRG.2698.2	FKBP5	83	1467	4.54E-04
FKRP_g14668.t1	FKRP	111	0	7.74E-04
MSTRG.11697.3	FKTN	428	0	3.23E-06
MSTRG.3811.1	FLCN	841	0	4.17E-07
MYH16_g6794.t1	FLG	36.5	0	4.30E-02
MSTRG.10737.1	FLYWCH2	283	0	1.69E-06
FMN1_g12312.t1	FMN1	587.5	0	1.74E-06
FMN1_g12311.t1	FMN1	241.5	0	3.25E-05
MSTRG.15222.4	FMN2	284.5	0	1.79E-06
PAXB1_g21143.t1	FMN2	45.5	0	2.02E-02
FMNL1_g4397.t1	FMNL1	532	0	2.34E-06
FMO5_g6903.t1	FMO5	77	0	2.65E-02
MSTRG.13408.1	FNBP4	950	0	5.75E-07
FNDC1_g16280.t1	FNDC1	70	0	4.32E-03
MSTRG.1629.1	FNDC4	296.5	0	1.74E-06
FNDC4_g1512.t1	FNDC4	757	0	1.26E-05
MSTRG.143.1	FOCAD	57	0	1.08E-02
TRI56_g10266.t1	FOLH1B	0	49	2.57E-03
FOLR2_g19723.t1	FOLR2	157.5	0	4.52E-03
MSTRG.14091.2	FOSB	492	12210.5	2.16E-03
FOSB_g14709.t1	FOSB	65	0	6.82E-03
MSTRG.14091.1	FOSB	2121	32773.5	7.03E-03
FOSL1_g14041.t1	FOSL1	64.5	0	5.90E-03
FOXF1_g13228.t1	FOXF1	421	0	7.26E-04
FOXJ3_g8329.t1	FOXJ3	136.5	0	1.27E-03
MSTRG.17436.4	FOXL2	2013	0	1.78E-07
MSTRG.17436.3	FOXL2	581.5	0	8.48E-07
MSTRG.17436.1	FOXL2	242	0	3.69E-05
FOXL2_g18000.t1	FOXL2	187.5	0	1.43E-04
MSTRG.5411.2	FOXM1	653	0	1.10E-06
MSTRG.5411.3	FOXM1	334.5	0	1.53E-06

MSTRG.13966.2	FOXN4	1774.5	0	4.98E-08
FOXO1_g879.t1	FOXO1	219.5	0	4.97E-05
FOXQ1_g2065.t1	FOXQ1	232	0	3.75E-05
FPG_g1490.t1	FPG_g1490.t1	534.5	7.5	1.55E-02
MSTRG.14505.2	FRMD4A	211.5	0	2.35E-06
MSTRG.7060.3	FRRS1	1051.5	6.5	3.09E-03
MSTRG.4855.2	FRS2	527.5	0	1.56E-06
MSTRG.19568.4	FRYL	1041.5	0	3.55E-06
MSTRG.19568.2	FRYL	317.5	0	1.18E-05
MSTRG.20969.1	FSIP2	0.5	30.5	4.30E-02
MSTRG.10870.2	FTCD	75.5	0	3.40E-03
FRIH_g21285.t1	FTH1	174.5	0	2.68E-04
FRIH_g13901.t1	FTH1	97.5	0	1.55E-03
MSTRG.20585.2	FTSJ1	226	0	6.84E-05
TRM7_g21337.t1	FTSJ1	117	0	1.01E-02
MSTRG.17875.1	FUOM	143.5	0	2.80E-04
MSTRG.14002.1	FUT1	527.5	0	8.67E-05
FUT1_g21157.t1	FUT1_g21157.t1	882.5	0	3.74E-07
SEC1_g14615.t1	FUT2	703.5	0	7.46E-07
MSTRG.9607.1	FUT8	273	3.5	4.68E-03
FV1_g13192.t1	FV1_g13192.t1	169	0	1.78E-04
FV1_g13409.t1	FV1_g13409.t1	111.5	0	2.30E-03
FV1_g1341.t1	FV1_g1341.t1	163	0	5.26E-04
FV1_g14522.t1	FV1_g14522.t1	1554	8492	4.48E-02
FV1_g1626.t1	FV1_g1626.t1	224.5	0	4.57E-05
FV1_g17111.t1	FV1_g17111.t1	75.5	0	5.22E-03
FV1_g20348.t1	FV1_g20348.t1	144	0	6.01E-04
FV1_g5550.t1	FV1_g5550.t1	48	0	4.76E-02
MSTRG.14316.2	FXYD3	35	0	4.29E-02
MSTRG.18719.3	FXYD6	191	0	8.54E-05
FYB1_g5602.t1	FYB1	32.5	0	5.10E-02
MSTRG.3577.6	FYTTD1	396	0	1.30E-03
FZD4_g19617.t1	FZD4	56.5	0	1.43E-02
MSTRG.8993.2	FZD6	422.5	0	4.07E-06
G6PI_g14914.t1	G6PI_g14914.t1	39.5	0	2.96E-02
MSTRG.4756.3	GAA	1374.5	0	3.62E-07
MSTRG.4756.6	GAA	527	0	1.73E-06
MSTRG.4756.4	GAA	250.5	0	1.91E-06
MSTRG.4756.5	GAA	356	3612.5	2.59E-02

GABR1_g2388.t1	GABBR1	143.5	0	4.26E-04
GALC_g9422.t2	GALC	49.5	0	1.43E-02
MSTRG.1545.1	GALM	474	0	2.60E-06
GLT13_g20995.t1	GALNT13	317.5	6	2.35E-02
MSTRG.9576.1	GALNT16	2794	0	5.57E-09
CO7_g302.t1	GALNT7	60	0	1.07E-02
MSTRG.8258.4	GALNT7	206	0	2.75E-06
PRP4B_g13473.t1	GALNT7	9.5	225	2.66E-05
MSTRG.8484.2	GALNT7	234.5	0	4.07E-05
MSTRG.12180.2	GANC	164.5	0	1.77E-04
GANC_g12384.t1	GANC	97	508.5	3.36E-02
MSTRG.11576.2	GAPVD1	1129	0	6.84E-07
GARE1_g2925.t1	GAREM1	212.5	0	2.38E-04
MSTRG.6057.1	GARIN5B	7.5	68	2.26E-02
GARL3_g11564.t1	GARNL3	115.5	0	3.81E-03
GAK1B_g1899.t1	GASK1B	41	0	3.81E-02
MSTRG.5767.2	GATAD2A	459	0	8.82E-06
GATC_g15374.t1	GATC	34.5	0	4.60E-02
GALD1_g14202.t1	GATD1	311.5	0	2.06E-05
MSTRG.11077.1	GBE1	158	0	1.88E-04
MSTRG.18075.2	GBF1	3778.5	0	3.19E-09
MSTRG.20176.2	GCA	45	0	2.61E-02
GCC2_g16488.t1	GCC2	47.5	0	3.49E-02
MSTRG.6919.1	GDAP2	385.5	0	1.60E-05
GDF7_g1581.t1	GDF7	223	18.5	1.62E-02
MSTRG.16433.3	GEMIN5	0	108.5	4.49E-04
MSTRG.1550.1	GEMIN6	109	0	8.49E-04
GEMI6_g1447.t1	GEMIN6	5	47	2.48E-02
GFRA3_g16859.t1	GFRA3	62	0	7.44E-03
GGA2_g10497.t1	GGA2	137.5	0	1.94E-03
MSTRG.10312.3	GIGYF1	393	0	5.28E-05
MSTRG.10312.1	GIGYF1	1688	10.5	2.36E-02
GGYF1_g10237.t1	GIGYF1	0	39	3.15E-02
MSTRG.15324.4	GIGYF2	1706	0	2.40E-07
MSTRG.15324.2	GIGYF2	355	2.5	4.18E-03
GINM1_g16190.t1	GINM1	44.5	0	2.02E-02
CXA10_g7508.t1	GJA10	66.5	0	8.71E-03
MSTRG.8184.1	GJA9	43.5	0	2.66E-02
CXB7_g7529.t1	GJB7	70.5	0	4.20E-03

GLPK2_g20573.t1	GK2	464	0	9.27E-04
GLB1L_g16090.t1	GLB1L	58.5	0	8.77E-03
MSTRG.446.3	GLCCI1	708.5	0	1.57E-04
MSTRG.446.2	GLCCI1	135.5	1	1.01E-02
MSTRG.12437.1	GLCE	665	0	3.09E-06
MSTRG.12437.3	GLCE	416	0	1.88E-05
GCSP_g6084.t1	GLDC	32.5	0	4.97E-02
MSTRG.9153.1	GLI4	291.5	29.5	3.28E-02
GLIP1_g9691.t1	GLIPR1	34	0	4.75E-02
GLIS3_g6108.t1	GLIS3	69.5	0	4.56E-03
TCPG_g6683.t2	GLMP	2636	296.5	3.14E-02
MSTRG.17775.2	GLT8D1	43.5	0	2.15E-02
GL8D2_g9810.t1	GLT8D2	150.5	0	3.31E-04
GLYG2_g21957.t2	GLYG2_g21957.t2	45	0	2.47E-02
GLYR1_g10638.t1	GLYR1	184	0	1.81E-03
SAP3_g17002.t1	GM2A	67.5	0	8.67E-03
MSTRG.8066.2	GMEB1	47	0	2.21E-02
MSTRG.8860.3	GMEB2	320	0	1.87E-06
MSTRG.8860.2	GMEB2	7	326.5	2.23E-05
GMIP_g5752.t1	GMIP	41.5	0	2.59E-02
MSTRG.2407.2	GMNN	471	0	5.05E-05
GMPR1_g2152.t1	GMPR	193.5	0	1.79E-04
GUAA_g17905.t1	GMPS	182.5	0	8.74E-04
GNAQ_g6167.t1	GNAQ	826.5	0	4.41E-07
GBB2_g10236.t1	GNB2	81	0	2.45E-03
GNB5_g12482.t1	GNB5	48	0	1.76E-02
NU133_g15640.t1	GNBIL	33.5	237.5	2.91E-02
GNDS_g22192.t2	GNDS_g22192.t2	189	0	6.08E-04
GNDS_g5461.t1	GNDS_g5461.t1	44.5	0	2.47E-02
MSTRG.11667.2	GNG10	366	0	6.13E-06
GBG10_g11745.t1	GNG10	40	0	2.76E-02
MSTRG.8165.2	GNL2	342	0	8.30E-03
MSTRG.20625.2	GNL3	182	0	1.88E-04
GNL3_g18393.t1	GNL3	97.5	907.5	7.97E-03
MSTRG.18479.1	GNPAT	414	0	8.24E-06
MSTRG.16378.2	GNPDA1	300	0	1.34E-05
MSTRG.16378.1	GNPDA1	0	132.5	6.57E-05
MSTRG.19536.2	GNPDA2	45.5	0	3.57E-02
MSTRG.11538.5	GOLGA2	856	0	8.71E-06

MSTRG.11538.6	GOLGA2	693	3	2.19E-03
MSTRG.11538.3	GOLGA2	2.5	29	4.57E-02
MSTRG.11309.4	GOLGA7	125.5	3.5	4.85E-03
GOLI4_g3180.t1	GOLIM4	291	0	4.49E-05
MSTRG.5575.4	GOLPH3	1336.5	0	8.96E-08
MSTRG.6737.1	GON4L	746	0	6.39E-07
MSTRG.17592.3	GORASP1	172	0	2.47E-04
AATC2_g11278.t1	GOT1L1	41	0	3.51E-02
MSTRG.18021.2	GPAM	40	0	4.55E-02
GPBAR_g16123.t1	GPBAR1	53.5	0	1.58E-02
MSTRG.5697.2	GPBP1	543	0	6.83E-06
GPBP1_g5683.t1	GPBP1_g5683.t1	51.5	1835	1.04E-04
GPC1_g15941.t1	GPC1	60	0	1.92E-02
GPC4_g21769.t1	GPC4	40	0	4.16E-02
MSTRG.8502.1	GPCPD1	81.5	0	4.87E-03
MSTRG.5087.3	GPD1	296	0	3.31E-05
GPN3_g15293.t1	GPN3	59.5	0	9.08E-03
GP108_g17743.t1	GPR108	34	0	4.66E-02
GP146_g10083.t1	GPR146	48	547.5	5.63E-03
GP153_g7690.t1	GPR153	551	0	8.99E-07
GP155_g20896.t2	GPR155	41	460.5	1.97E-04
GP161_g6316.t1	GPR161	175	0	2.47E-04
GP176_g12334.t1	GPR176	606	0	1.54E-06
GPR19_g5277.t2	GPR19	812	0	5.43E-07
GPR39_g21061.t1	GPR39	296	0	1.51E-05
GPR85_g347.t1	GPR85_g347.t1	50.5	0	2.47E-02
MSTRG.18663.4	GRAMD1B	0	716	8.84E-06
GRAP_g3604.t1	GRAP2	47.5	0	2.53E-02
MSTRG.20171.3	GRB14	3795.5	0	4.73E-09
MSTRG.20171.6	GRB14	9173	998	9.08E-03
GRB2_g4539.t1	GRB2	74.5	0	5.66E-03
MSTRG.1731.1	GREB1	38	0	3.41E-02
MSTRG.7502.1	GRIK2	156	0	1.89E-04
MSTRG.14153.4	GRIK5	2319	0	1.22E-08
MSTRG.14153.2	GRIK5	20.5	1162.5	5.03E-02
MSTRG.4658.7	GRIN2C	38	577.5	1.75E-02
MSTRG.4658.2	GRIN2C	81.5	0	2.17E-02
MSTRG.16542.4	GRK6	109.5	0	3.52E-03
GRK6_g17149.t1	GRK6	54	0	1.23E-02

GRM3_g582.t1	GRM3	16.5	105.5	5.40E-02
MSTRG.566.2	GSAP	52	0	1.28E-02
GSTM3_g7012.t1	GSTM3	152	0	1.41E-03
MSTRG.6997.10	GSTM4	238	1.5	2.64E-02
MSTRG.6997.6	GSTM5	0	2291	5.57E-09
GSTO1_g18694.t1	GSTO1	505.5	0	1.17E-04
GSTT3_g15546.t2	GSTT1	162	0	7.68E-04
GTDC1_g21028.t1	GTDC1	107	0	2.85E-03
STON1_g1390.t1	GTF2A1L	114	0	8.26E-03
TRIO_g12529.t1	GTF2A2	151	0	5.12E-04
MSTRG.15913.1	GTF2H2	104.5	0	4.99E-03
MSTRG.15913.3	GTF2H2	164.5	1.5	3.00E-02
DDR1_g2421.t2	GTF2H4	126	0	6.15E-03
TF3A_g1091.t1	GTF3A	62	0	2.24E-02
MSTRG.10531.2	GTF3C1	58	0	2.99E-02
TF3C3_g20793.t1	GTF3C3	81	0	2.52E-03
MSTRG.2798.3	GTPBP2	300.5	0	3.02E-06
MSTRG.5624.1	GTPBP2	211.5	15.5	4.81E-02
MSTRG.10104.1	GTSE1	315	0	1.36E-04
MSTRG.14908.3	GUCD1	416	0	3.56E-06
MSTRG.14908.4	GUCD1	127.5	0	1.45E-03
MSTRG.2062.4	GUCY1A1	475	0	2.97E-06
MSTRG.10248.3	GUCY2C	50.5	0	1.72E-02
MSTRG.19534.1	GUF1	233.5	0	9.88E-05
GUF1_g20393.t2	GUF1	48.5	0	1.63E-02
KGUA_g16508.t1	GUK1	48	0	1.57E-02
MSTRG.20043.3	GULP1	104	0	2.16E-03
GVIN1_g19977.t1	GVINP1	170	0	1.41E-03
GXLT2_g18486.t1	GXLT2_g18486.t1	44	0	2.73E-02
MSTRG.8419.2	GZF1	93.5	0	3.44E-03
H1T_g2218.t1	H1-6	200.5	0	4.89E-04
H2A1D_g2227.t1	H2AC7	194	0	8.82E-05
GPT_g19409.t1	H2AX	82	0	8.00E-03
H31_g2233.t1	H3C1	1537.5	0	8.45E-06
H31_g2288.t2	H3C1	47	0	4.60E-02
H31_g2261.t1	H3C1	44.5	0	4.99E-02
H4_g5262.t1	H4C1	134.5	0	2.69E-02
MSTRG.14522.2	HACD1	165	0	1.50E-04
HAP1_g4291.t1	HAP1	204.5	0	7.34E-05

CP072_g21816.t1	HAPSTR1	63	0	1.99E-02
MSTRG.12031.2	HAUS4	151.5	0	7.94E-04
HAUS6_g6048.t1	HAUS6	270	0	3.56E-05
HAUS7_g21875.t1	HAUS7	57	0	1.18E-02
OREX_g4308.t1	HCRT	293	3	9.37E-03
MSTRG.17126.1	HDAC11	192	0	9.61E-05
HDAC3_g16939.t1	HDAC3	404	0	5.25E-06
HDDC2_g7354.t1	HDDC2	89.5	0	1.01E-02
MSTRG.16998.1	HDGFL2	347.5	0.5	3.27E-05
MSTRG.16998.3	HDGFL3	290.5	0	1.53E-05
MSTRG.5434.2	HDHD5	312	0	1.19E-05
MSTRG.21172.3	HDHD5	88.5	0	8.45E-03
MSTRG.15273.2	HDLBP	2048.5	0	5.72E-08
HEAT1_g19097.t1	HEATR1	176	0	1.21E-03
MSTRG.11969.3	HEATR5A	734	0	5.79E-07
HTR5A_g12037.t1	HEATR5A	92	0	1.52E-03
MSTRG.11972.3	HECTD1	1892.5	0	2.35E-08
MSTRG.11972.4	HECTD1	2103	0	3.47E-08
MSTRG.11972.2	HECTD1	1471.5	139	4.70E-03
HELB_g4737.t2	HELB	59.5	0	7.48E-03
HELZ_g4461.t1	HELZ	65	1	5.07E-02
MSTRG.17739.2	HEMK1	181	0	1.59E-04
MSTRG.12375.2	HERC1	2225	0	6.50E-07
MSTRG.12375.1	HERC1	792.5	3831	1.62E-02
MSTRG.18311.5	HERC4	585	0	1.13E-06
MSTRG.18311.2	HERC4	267.5	0	3.72E-05
MSTRG.18311.3	HERC4	111	725.5	3.91E-03
HEXB_g16565.t1	HEXB	58	0	9.87E-03
HEXD_g4688.t1	HEXD	56	0	3.03E-02
MSTRG.541.1	HGF	1	29.5	1.97E-02
HGS_g4653.t1	HGS	54.5	0	3.27E-02
MSTRG.11332.5	HGSNAT	771.5	0	5.85E-07
MSTRG.11332.2	HGSNAT	57	0	3.71E-02
HIPL2_g15824.t1	HHIPL2	133.5	0	2.44E-03
MSTRG.18691.3	HINFP	189.5	0	9.53E-05
MSTRG.13313.4	HIPK3	6	202.5	4.92E-03
HIPK3_g13489.t1	HIPK3	48.5	0	1.55E-02
MSTRG.14968.2	HIRA	709	0	7.46E-07
MSTRG.2342.2	HIVEP1	569.5	0	1.05E-05

MSTRG.2557.1	HLA-B	12.5	235	1.69E-05
MSTRG.2597.4	HLA-B	14.5	710	3.08E-02
MSTRG.2641.1	HLA-DQA2	60	0	2.60E-02
MSTRG.8578.1	HM13	1982	0	2.62E-08
MSTRG.2170.3	HMBOX1	661	0	7.46E-07
HMCN2_g11492.t1	HMCN2	463.5	0	5.27E-06
MSTRG.16970.1	HMG20B	523	0	2.15E-06
MSTRG.1141.1	HMGB1	635	0	8.05E-07
HMGN3_g7564.t1	HMGN3	365	0	4.19E-05
MSTRG.7617.2	HMGN3	114	0	6.88E-04
MSTRG.9929.3	HMGXB4	260	0	1.98E-06
MSTRG.9929.1	HMGXB4	405	0	2.80E-05
MSTRG.15072.1	HMMR	0.5	32	5.23E-02
HNF4A_g8668.t2	HNF4A	118	0	8.59E-04
MSTRG.377.4	HNRNPA2B1	938.5	133	5.35E-02
MSTRG.16560.2	HNRNPAB	81	1129	1.72E-02
MSTRG.18555.3	HNRNPF	456	0	1.00E-05
MSTRG.16575.4	HNRNPH1	153	0	7.46E-04
HNRPL_g14870.t1	HNRNPL	47	0	2.14E-02
MSTRG.1554.1	HNRNPLL	357.5	1455.5	2.32E-02
MSTRG.16834.4	HNRNPM	443	0	4.97E-06
MSTRG.15249.2	HNRNPU	1361.5	0	7.24E-06
MSTRG.13498.1	HNRNPUL2	1059	0	2.05E-07
LAMB3_g13483.t1	HOATZ	214.5	0	5.30E-05
MSTRG.19618.2	HOPX	124	0	8.85E-04
HXB1_g4165.t1	HOXB1	125.5	0	7.11E-04
HXB2_g4164.t2	HOXB2	42.5	459	3.26E-02
MSTRG.7921.3	HP1BP3	2349.5	0	1.56E-08
HPPD_g15277.t1	HPD	59	0	2.46E-02
PGDH_g1956.t1	HPGD	103.5	0	4.58E-03
MSTRG.18125.2	HPS1	138	0	3.69E-04
MSTRG.18125.3	HPS1	79	0	2.68E-03
MSTRG.18125.5	HPS1	62.5	0	6.93E-03
MSTRG.14818.3	HPS4	2	136	6.73E-03
HPS5_g20097.t1	HPS5	952.5	0	2.25E-06
MSTRG.19223.4	HPS5	225	0	2.39E-06
MSTRG.19223.2	HPS5	422.5	0	2.92E-05
MSTRG.19223.1	HPS5	66.5	600.5	1.28E-03
H1BP3_g1582.t1	HS1BP3	51.5	0	1.25E-02

H6ST3_g858.t1	HS6ST3	121.5	0	5.72E-04
HSC20_g15449.t2	HSCB	58	0	1.07E-02
DHI2_g13047.t1	HSD11B2	92	0	7.33E-03
MSTRG.6903.2	HSD3B2	1612.5	0	4.50E-07
HS90B_g2684.t2	HSP90AB1	35.5	0	3.90E-02
HSP7C_g19376.t1	HSPA8	34.5	184.5	4.22E-02
HSPB6_g14958.t1	HSPB6	50	0	2.85E-02
HSPB9_g4305.t1	HSPB9	641	0	2.53E-04
MSTRG.7949.3	HSPG2	273452.5	0	2.99E-18
5HT5A_g24.t1	HTR5A	1051	0.5	3.49E-07
MSTRG.19.3	HTR5A	382.5	0	6.54E-06
MSTRG.19351.2	HTT	3367	111	1.27E-03
HUWE1_g21388.t1	HUWE1	31.5	145	4.34E-02
MSTRG.7595.3	IBTK	1048	0	1.82E-07
ID1_g8537.t1	ID1	40	0	2.87E-02
MSTRG.19872.1	IDH1	2463	68	4.77E-05
IDI2_g15040.t1	IDI2_g15040.t1	64	0	6.07E-03
IDUA_g20181.t1	IDUA	69.5	0	4.34E-03
IEX1_g2420.t1	IER3	79.5	0	2.62E-03
MSTRG.5819.1	IFI30	59.5	0	8.91E-03
IFI44_g7171.t1	IFI44	33	0	4.93E-02
IFIH1_g20966.t1	IFIH1	71	0	5.86E-03
IFNA2_g6014.t2	IFNA2	153.5	0	2.02E-04
MSTRG.10961.1	IFNGR2	26.5	527.5	2.40E-05
MSTRG.17728.2	IFRD2	521.5	0	2.98E-06
MSTRG.17728.3	IFRD2	199.5	0	7.45E-05
MSTRG.4140.3	IFT20	2077	0	1.73E-07
MSTRG.4140.2	IFT20	378.5	0	4.24E-05
FV1_g6317.t1	IFT46	506.5	0	2.00E-06
IFT56_g207.t1	IFT56	1562.5	0	3.09E-07
IFT74_g8159.t1	IFT74_g8159.t1	686	0	7.44E-07
MSTRG.3354.6	IFT80	525.5	0	3.89E-06
MSTRG.3354.4	IFT80	1058.5	3	6.97E-04
MSTRG.3354.1	IFT80	28.5	596	4.57E-02
IFT81_g15289.t1	IFT81	89	0	3.09E-03
IGF1_g9800.t1	IGF1	357	0	6.62E-06
MSTRG.15649.2	IGF2R	654.5	0	7.81E-07
IBP6_g4979.t1	IGFBP6	85	0	7.24E-03
IBP7_g20458.t1	IGFBP7	124	0	2.52E-03

MSTRG.9853.1	IKBIP	167.5	0	1.51E-04
MSTRG.17936.2	IKZF5	474.5	0	6.30E-04
MSTRG.5436.1	IL17A	381.5	0	2.74E-05
EDEM1_g4642.t1	IL17RA	60.5	0	7.56E-03
I17RD_g18423.t1	IL17RD	220.5	0	2.57E-04
I18BP_g19728.t1	IL18BP	62	0	1.11E-02
I18RA_g16462.t1	IL1RL1	144.5	0	2.55E-04
IL22_g4729.t1	IL22	136	0	7.47E-03
IL34_g13129.t1	IL34	60	0	9.37E-03
MSTRG.5690.2	IL6ST	862.5	0	5.75E-07
MSTRG.16741.2	ILF3	3900	0	2.24E-09
MSTRG.16741.3	ILF3	311	0	1.29E-05
MSTRG.19126.2	ILK	26	193	6.86E-03
MIC60_g1163.t1	IMMT	325	0	2.06E-05
IMPA1_g13342.t1	IMPA1	85.5	0	2.18E-03
IMPCT_g2895.t1	IMPACT	44.5	0	2.00E-02
MSTRG.241.2	IMPDH1	230.5	0	2.32E-06
IMPG2_g3515.t1	IMPG2	356	0	1.32E-05
MSTRG.13475.2	INCENP	304.5	0	1.58E-05
MSTRG.13476.2	INCENP	269.5	0	3.36E-05
INCE_g13903.t1	INCENP	96.5	0	1.70E-03
MSTRG.9290.4	INF2	544.5	0	1.54E-06
INF2_g9307.t1	INF2	780	19	3.37E-03
MSTRG.766.2	ING1	118.5	0	6.78E-04
MSTRG.11159.1	ING2	503.5	53.5	1.98E-02
ING3_g325.t1	ING3	18.5	255	4.54E-02
ING4_g5377.t1	ING4	73.5	0	3.72E-03
MSTRG.15788.6	INPP4A	0	124	7.56E-03
MSTRG.20.3	INSIG1	497	0	5.82E-06
MSTRG.20299.1	INSIG2	195	0	2.67E-06
INSL5_g7226.t1	INSL5	60	730.5	8.99E-03
MSTRG.1818.2	INTS12	176	0	1.01E-03
INT13_g5211.t1	INTS13	58	0	8.20E-03
MSTRG.1057.1	INTS6	75.5	0	3.61E-03
MSTRG.20993.1	INTS6L	722	0	5.97E-07
INTU_g1788.t1	INTU	268.5	0	3.11E-03
INTU_g12540.t1	INTU_g12540.t1	442.5	0	1.09E-06
IP3KB_g4568.t1	IP3KB_g4568.t1	45.5	0	2.93E-02
MSTRG.17694.2	IP6K2	2038.5	54	1.69E-02

MSTRG.17694.3	IP6K2	72.5	0	2.50E-02
MSTRG.15066.1	IPO9	1777.5	0	1.37E-07
MSTRG.8322.1	IPP	395	0	1.35E-06
MSTRG.8322.2	IPP	48.5	0	1.88E-02
MSTRG.3611.2	IQCB1	76	0	3.38E-03
MSTRG.11319.1	IQCK	127	0	8.40E-04
MSTRG.5814.1	IQCN	86.5	0	9.51E-03
MSTRG.18510.2	IRF2BP2	0	1200	4.17E-07
MSTRG.776.3	IRS2	10.5	137.5	4.37E-03
MSTRG.18437.1	IRX3	1	58	4.37E-03
MSTRG.375.1	ISCA1	114.5	0	6.40E-04
MSTRG.9495.2	ISCA2	51	0	1.32E-02
MSTRG.6717.3	ISG20L2	207.5	0	2.74E-06
IST1_g13112.t1	IST1	169	0	1.37E-04
MSTRG.4523.2	ITGA2B	63	0	1.30E-02
ITA5_g4940.t2	ITGA5	145	0	3.34E-03
ITAE_g3812.t1	ITGAE	80.5	0	2.90E-03
ITAL_g10408.t1	ITGAL	87.5	0	5.47E-02
ITB3_g4418.t1	ITGB3	93	0	1.44E-03
MSTRG.9353.1	ITPK1	454.5	0	2.75E-06
MSTRG.14185.1	ITPKC	0	362	1.91E-06
ITPI2_g20844.t1	ITPRID2	180	0	1.11E-04
IPIL2_g10552.t1	ITPRIPL2	15.5	742	3.08E-02
NS1BP_g6446.t1	IVNS1ABP	223.5	0	5.91E-05
MSTRG.6551.3	IVNS1ABP	1217.5	5044	2.24E-02
IWS1_g21116.t1	IWS1	440	0	2.95E-05
MSTRG.1940.2	JADE1	196.5	0	2.57E-02
JADE1_g1798.t1	JADE1	43	0	2.81E-02
JADE1_g1798.t2	JADE1	37	0	3.53E-02
JADE2_g16823.t1	JADE2	43.5	0	2.20E-02
MSTRG.5825.3	JAK3	182.5	0	9.67E-04
JAM2_g11045.t1	JAM2	39.5	0	2.93E-02
CQ100_g19222.t1	JAM3	261	0	1.01E-03
JKAMP_g9618.t1	JKAMP	1075	74.5	4.89E-02
MSTRG.15885.2	JMJD4	209	0	5.93E-05
MSTRG.12172.3	JMJD7	38.5	0	3.46E-02
MSTRG.15974.2	JMY	557.5	0	8.99E-07
K1C40_g10802.t1	K1C40_g10802.t1	65.5	0	3.83E-02
MSTRG.4552.2	KANSL1	63.5	653.5	1.17E-03

MSTRG.21627.5	KANSL2	232.5	0	5.47E-05
MSTRG.5113.3	KANSL2	115.5	0	6.18E-04
KAP3_g645.t1	KAP3_g645.t1	114	0	7.37E-04
KAT7_g4135.t1	KAT7	284.5	0	6.07E-03
MSTRG.1147.1	KATNAL1	465	0	2.47E-05
MOT14_g9252.t1	KATNAL1	51	0	1.51E-02
MSTRG.10527.7	KATNIP	158	0	3.19E-04
MSTRG.10527.2	KATNIP	59.5	0	1.03E-02
MSTRG.18090.1	KAZALD1	80.5	0	3.37E-03
MSTRG.12795.1	KBTBD11	469	29	2.46E-02
MSTRG.334.2	KBTBD2	3	303.5	7.33E-03
MSTRG.13404.2	KBTBD4	206	0	6.11E-05
KCNA4_g20147.t3	KCNA4	247	6.5	2.16E-02
KCNG2_g3111.t1	KCNG2	806	0	8.45E-07
MSTRG.6564.1	KCNK2	0	34.5	4.98E-02
KCNN1_g5805.t1	KCNN1	159.5	0	1.19E-03
MSTRG.13688.2	KCNQ1	0	281	1.29E-06
KCNRG_g1004.t1	KCNRG	58.5	0	2.56E-02
KCP_g276.t1	KCP	77.5	0	5.51E-03
MSTRG.10496.2	KCTD13	789	43	5.40E-02
MSTRG.14382.2	KCTD15	444	0	2.77E-06
MSTRG.4659.3	KCTD2	412	0	6.65E-06
KCD20_g2572.t1	KCTD20	78.5	0	2.78E-03
KCD21_g19648.t1	KCTD21	317.5	0	9.95E-05
MSTRG.10742.1	KCTD5	532.5	15.5	1.11E-05
MSTRG.17826.1	KCTD6	114.5	0	9.42E-04
MSTRG.17826.3	KCTD6	36.5	0	3.70E-02
KCTD8_g20391.t1	KCTD8	64	0	5.93E-03
MSTRG.20636.2	KDM5C	0	1128.5	4.26E-07
MSTRG.16745.2	KEAP1	787.5	0	8.59E-07
KEAP1_g17348.t1	KEAP1	22.5	187.5	7.79E-03
MSTRG.3876.2	KGD4	154	0	2.30E-04
MSTRG.17032.5	KHSRP	10029.5	0	3.13E-11
FUBP2_g17731.t1	KHSRP	106	0	1.30E-03
K0232_g20242.t1	KIAA0232	220	0	5.41E-05
K0513_g13215.t1	KIAA0513	67.5	0	9.95E-03
MSTRG.4013.2	KIAA0753	172.5	0	1.45E-04
MSTRG.10085.1	KIAA0930	123	0	5.72E-04
MSTRG.14543.5	KIAA1217	806.5	0.5	1.80E-06

MSTRG.14543.10	KIAA1217	268	0	1.91E-06
MSTRG.14543.6	KIAA1217	256.5	0	4.87E-05
MSTRG.3153.1	KIAA1328	209.5	0	1.15E-04
K1586_g2763.t1	KIAA1586	65.5	0	6.29E-03
K2013_g7757.t1	KIAA2013	76.5	0	3.38E-03
MSTRG.1762.3	KIDINS220	1956	0	6.98E-08
MSTRG.1762.4	KIDINS220	983.5	0.5	4.81E-07
KDIS_g1652.t1	KIDINS220	577	0	2.99E-05
MSTRG.2171.1	KIF13B	208.5	0	1.44E-04
KIF14_g15755.t1	KIF14	272.5	0	1.75E-06
MSTRG.4531.1	KIF18B	764.5	0	1.84E-06
MSTRG.16274.2	KIF20A	486	0	9.95E-07
MSTRG.10490.1	KIF22	112.5	0	1.39E-03
KIF22_g10420.t1	KIF22	70.5	0	5.03E-03
KIF23_g12611.t1	KIF23	252	0	2.80E-05
KI26B_g15878.t1	KIF26B	33.5	784	2.39E-02
MSTRG.15214.1	KIF26B	53.5	1	4.69E-02
MSTRG.5719.2	KIF2A	338.5	0	1.51E-06
KIF2A_g5702.t1	KIF2A	120	0	9.27E-03
MSTRG.20704.2	KIF4A	450	0	1.72E-04
KIF9_g18257.t1	KIF9	196	0	7.72E-05
KBP_g18956.t1	KIFBP	1025	0	4.15E-07
KISHA_g16625.t1	KISHA_g16625.t1	0	93.5	1.66E-04
MSTRG.13612.1	KLC2	1501.5	0	3.89E-06
MSTRG.13612.4	KLC2	172	0	5.75E-03
MSTRG.2775.2	KLC4	0	457.5	1.01E-06
MSTRG.2775.1	KLC4	866.5	98.5	4.88E-02
KLF11_g1640.t1	KLF11	212.5	1	1.59E-04
KLF7_g20712.t1	KLF7	200	0	3.33E-04
KLHL2_g1929.t1	KLHL2	96	0	1.97E-03
KLH25_g12795.t1	KLHL25	40	0	3.83E-02
KLHL5_g20366.t1	KLHL5	360	0	3.97E-05
KLHL7_g462.t1	KLHL7	395.5	0	4.77E-06
KMT2A_g19431.t1	KMT2A	34	0	4.44E-02
KMT2B_g14953.t1	KMT2B	108	0	8.31E-04
MSTRG.36.2	KMT2C	1963	0	1.68E-07
MSTRG.5110.3	KMT2D	2479.5	111.5	2.08E-03
MSTRG.13660.2	KMT5B	706	0	7.10E-07
KNDC1_g18514.t1	KNDC1	99.5	0	1.21E-03

MSTRG.1220.1	KRCC1	64.5	0	5.65E-03
MSTRG.490.3	KRIT1	495.5	0	1.87E-06
MSTRG.9761.4	KRR1	78.5	2	5.03E-02
K1C17_g4287.t1	KRT17	73	0	4.56E-03
MSTRG.9707.6	KTN1	326	0	1.49E-06
MSTRG.9707.2	KTN1	699	55.5	8.77E-03
T3HPD_g9620.t1	L3HYPDH	246.5	0	2.95E-05
LMBL3_g7332.t1	L3MBTL3	860	0	3.92E-07
MSTRG.7342.3	L3MBTL3	156	0	1.90E-04
LACB2_g1701.t1	LACB2_g1701.t1	131	0	4.64E-04
MSTRG.1000.3	LACC1	71	0	1.16E-02
MSTRG.1000.6	LACC1	34	0	4.48E-02
RL32_g6318.t1	LACC1	3825.5	141.5	2.62E-02
MSTRG.21079.1	LAGE3	93.5	0	3.35E-03
MSTRG.7351.1	LAMA2	3503.5	22133	3.06E-03
MSTRG.3083.5	LAMA3	689.5	0	6.75E-07
MSTRG.3083.7	LAMA3	780.5	0	6.96E-07
MSTRG.3083.4	LAMA3	1680.5	61.5	2.98E-02
LAMB4_g657.t1	LAMB4	114	0	7.94E-04
MSTRG.617.2	LAMB4	42	0	2.37E-02
MSTRG.19905.2	LAMP2	2313	0	1.65E-08
MSTRG.7286.3	LAMP2	73.5	0	3.93E-03
MSTRG.9927.1	LARGE1	3322	0	4.73E-09
MSTRG.16428.2	LARP1	0	2643	3.62E-07
MSTRG.1937.3	LARP1B	162	0	1.93E-04
MSTRG.1937.2	LARP1B	100.5	0	2.03E-03
LARP7_g1742.t1	LARP7	58	0	9.24E-03
MSTRG.1872.2	LARP7	24.5	106	5.21E-02
MSTRG.1186.1	LATS2	185	3.5	2.55E-02
LBX2_g1225.t1	LBX2	71.5	0	2.28E-02
MSTRG.1608.1	LCLAT1	33.5	0	5.00E-02
MSTRG.11410.3	LCN6	36.5	0	5.34E-02
MSTRG.1012.1	LCP1	77	0	2.95E-03
MSTRG.18078.5	LDB1	243	0	2.15E-06
MSTRG.18078.1	LDB1	18	351	2.32E-05
MSTRG.19226.3	LDHC	688.5	0	9.03E-07
MSTRG.19226.5	LDHC	281.5	0	1.81E-06
MSTRG.19226.2	LDHC	103	0	1.06E-03
MSTRG.12979.2	LDHD	164	0	3.91E-04

LDHD_g13148.t1	LDHD	68	0	6.58E-03
LRAD3_g13515.t1	LDLRAD3	407	0	5.10E-06
LERL1_g11250.t1	LEPROTL1	667	28.5	7.94E-03
LG3BP_g4611.t1	LGALS3BP	57.5	0	9.27E-03
LGR4_g20139.t1	LGR4	76	0	3.43E-03
LGR6_g15728.t1	LGR6	92	0	7.05E-03
MSTRG.1471.1	LHCGR	369.5	0	1.00E-05
LIN52_g9495.t1	LIN52	46	0	3.59E-02
MSTRG.19743.2	LIN54	276	0	1.91E-05
MSTRG.19265.2	LIN7C	298.5	0	1.59E-06
LINES_g7537.t1	LINES_g7537.t1	1111	0	4.02E-07
MSTRG.1744.1	LIPM	99	0	5.11E-03
LIPS_g3069.t1	LIPS_g3069.t1	360.5	0	2.31E-05
MSTRG.3831.4	LLGL1	150	0	3.79E-04
MSTRG.14.1	LMBR1	115	0	6.64E-04
LMBRL_g5065.t1	LMBR1L	133	0	5.70E-04
MSTRG.5600.2	LMBRD2	1024.5	0	3.60E-07
MSTRG.5600.3	LMBRD2	218.5	0	6.28E-05
LMTD2_g14191.t1	LMNTD2	52.5	0	1.77E-02
MSTRG.10238.2	LMTK2	248.5	0	1.31E-04
MSTRG.13880.3	LMTK3	436	0	3.49E-06
MSTRG.13880.2	LMTK3	481.5	14	1.17E-03
MSTRG.1158.3	LNX2	101	0	6.96E-03
MSTRG.1158.5	LNX2	50	0	1.44E-02
LOC000000003_g10260.t1	LOC000000003_g10260.t1	131.5	0	2.13E-03
LOC000000086_g2610.t1	LOC000000086_g2610.t1	239.5	0	3.28E-05
LOC000000116_g9353.t1	LOC000000116_g9353.t1	98	0	1.18E-03
PSMD8_g2936.t1	LOC100052677	137	0	9.56E-04
ELAC_g22434.t1	LOC101393639	241	0	2.16E-06
MSTRG.2558.1	LOC101395826	95	419.5	4.36E-02
AK17B_g21690.t1	LOC101395896	93.5	0	4.09E-03
MSTRG.2553.3	LOC101399194	474	0	5.28E-06
MSTRG.2553.2	LOC101399194	141	625.5	4.03E-02
ADM1A_g15312.t2	LOC101400422	41	0	3.18E-02
H4_g2243.t1	LOC101407346	195.5	1.5	9.42E-03
H4_g2237.t1	LOC101407346	39.5	0	3.12E-02
NDK_g10192.t1	LOC101407841	865	0	6.40E-07
CC163_g8264.t1	LOC102147438	5.5	270	1.06E-02
MSTRG.15190.1	LOC102149162	32.5	0	5.10E-02

LOC000000115_g9234.t1	LOC102149190	98.5	0	4.37E-03
TLR2_g18507.t1	LOC106782066	554.5	0	1.47E-06
MSTRG.14618.1	LOC111768565	89.5	0	2.50E-03
MSTRG.10918.1	LOC111775420	314.5	0	1.26E-05
LOXH1_g2975.t1	LOXHD1	42	0	3.37E-02
LOXL4_g12616.t1	LOXL4_g12616.t1	48.5	0	1.58E-02
PCT2B_g7110.t2	LPCAT2	42.5	381	2.35E-03
MSTRG.3048.4	LPIN2	1033	0	1.88E-07
MSTRG.3048.3	LPIN2	581	0	4.00E-06
LPP_g3305.t1	LPP	85.5	0	2.01E-03
LRAT_g1885.t1	LRAT	54.5	0	2.92E-02
MSTRG.2040.1	LRBA	981.5	0	2.63E-05
MSTRG.2040.3	LRBA	61	0	3.60E-02
MSTRG.16050.4	LRCH1	331	0	2.32E-04
LRCH1_g6081.t1	LRCH1_g6081.t1	160	0	2.71E-04
OR6V1_g149.t1	LRFN2	72	322.5	3.39E-02
LRIF1_g6994.t1	LRIF1	63	0	6.34E-03
MSTRG.6954.2	LRIG2	1128.5	0	1.43E-07
MSTRG.4954.2	LRP1	0	1986	3.09E-07
MSTRG.20253.1	LRP1B	2836	0	5.09E-07
MSTRG.20253.5	LRP1B	0	688	6.54E-07
LRP2_g5497.t1	LRP2_g5497.t1	174	0	1.47E-04
MSTRG.13662.1	LRP5	386	0	1.26E-06
MSTRG.8264.2	LRP8	232.5	0	1.82E-04
LRC32_g19669.t1	LRRC32	0.5	50.5	3.60E-02
MSTRG.8255.2	LRRC42	310.5	6.5	3.12E-02
LRC45_g4671.t1	LRRC45	450.5	0	2.57E-04
LRC63_g978.t2	LRRC63	53	0	1.15E-02
LRR70_g5705.t1	LRRC70	43.5	0	2.14E-02
MSTRG.17572.1	LRRFIP2	1532.5	208	4.82E-02
LRIQ1_g9718.t1	LRRIQ1	63.5	0	1.38E-02
LRRT1_g1198.t1	LRRTM1	95.5	0	1.64E-03
LRTM1_g18417.t1	LRTM1	56.5	0	9.72E-03
MSTRG.11280.2	LSM1	198.5	0	1.11E-04
LS14A_g14912.t1	LSM14A	53.5	0	2.24E-02
MSTRG.5801.2	LSM4	129.5	0	8.31E-04
MSTRG.10869.1	LSS	116	0	1.17E-03
LTBP2_g9488.t1	LTBP2	79	0	2.79E-03
MSTRG.13584.2	LTBP3	766.5	0.5	2.09E-06

MSTRG.13584.5	LTBP3	0	181	2.15E-06
MSTRG.13584.4	LTBP3	46.5	1100.5	3.51E-02
TRFL_g18238.t1	LTF	647.5	29	1.99E-02
MSTRG.13674.2	LTO1	188	0	2.10E-03
LY65C_g2453.t1	LY6G5C	43.5	0	4.89E-02
MSTRG.2304.2	LYRM4	274	0	1.93E-05
LYSM4_g12767.t1	LYSMD4	318.5	0	1.95E-05
MSTRG.12609.1	LYSMD4	71.5	0	4.10E-03
MACD2_g8409.t1	MACD2_g8409.t1	32	0	5.23E-02
MSTRG.7830.1	MAD2L2	107	0	1.31E-03
MSTRG.13395.1	MADD	372.5	0	7.71E-04
MSTRG.9187.2	MAF1	480.5	0	2.94E-05
MAGBI_g21248.t1	MAGEB18	66.5	0	7.09E-03
MSTRG.21441.4	MAGED4	443	0	5.93E-06
MSTRG.21441.5	MAGED4	903.5	50	3.57E-02
MAIP1_g20773.t1	MAIP1	1440	0	1.28E-07
MAJIN_g13995.t1	MAJIN	1343	0	1.60E-07
MAK_g12769.t1	MAK	113	0	9.66E-04
MALR1_g18446.t1	MALR1_g18446.t1	131.5	0	1.19E-03
MSTRG.11391.1	MAN1B1	1440.5	0	6.28E-08
MSTRG.11389.2	MAN1B1	401.5	0	4.76E-05
MSTRG.16103.2	MAN2A1	0	1097.5	4.27E-07
MSTRG.12672.2	MAN2A2	0	430	8.99E-07
MLH1_g5281.t1	MANSC1	39	0	3.00E-02
MAP10_g19075.t1	MAP10	91.5	0	1.70E-03
MSTRG.12202.4	MAP1A	1394	0	1.14E-07
MTAP2_g16158.t1	MAP2	108.5	0	7.05E-03
MSTRG.12423.2	MAP2K5	41	0	2.75E-02
MSTRG.16851.2	MAP2K7	1148	112.5	4.14E-02
MSTRG.13587.2	MAP3K11	9	447.5	1.92E-02
M3K5_g7281.t1	MAP3K5	79.5	0	2.62E-03
MAP4_g18266.t1	MAP4	121.5	0	5.66E-04
M4K2_g13988.t1	MAP4K2	15	195.5	1.72E-04
MSTRG.20996.5	MAP7D3	631	0	8.07E-07
MSTRG.10124.1	MAPK11	36	0	3.73E-02
MK11_g10054.t1	MAPK11	98	0	3.87E-02
MSTRG.9169.4	MAPK15	271.5	0	2.02E-05
MK15_g9174.t1	MAPK15	54	0	1.05E-02
MSTRG.3212.1	MAPK4	8.5	76	1.71E-02

MSTRG.10795.1	MAPK8IP3	110.5	0	4.55E-03
MSTRG.16587.4	MAPK9	392.5	0	6.17E-06
MSTRG.11574.2	MAPKAP1	186	0	8.28E-04
MSTRG.6402.2	MAPKAPK2	1428.5	0	4.81E-07
MARH3_g16767.t1	MARCHF3	82.5	0	2.65E-03
MSTRG.9277.2	MARK3	1220	0	2.03E-07
SYMM_g20783.t2	MARS2	3	227.5	4.23E-05
MSTRG.18126.2	MARVELD1	191.5	0	3.80E-04
MALD2_g16537.t2	MARVELD2	68	0	4.83E-03
MSTRG.5741.6	MAST4	386.5	0	8.71E-06
MSTRG.12869.1	MATCAP1	132	0	1.47E-03
MSTRG.3209.7	MBD1	869	0	9.53E-06
MSTRG.3209.6	MBD1	65	0	9.79E-03
MBD2_g3010.t1	MBD2	62	0	1.57E-02
MSTRG.21188.3	MBD3	121.5	0	1.33E-03
MSTRG.20235.3	MBD5	307	0	1.56E-06
MSTRG.4944.2	MBD6	59.5	0	7.59E-03
MSTRG.20978.1	MBNL3	2727.5	0	4.42E-08
MSTRG.20978.6	MBNL3	1626	0	5.22E-08
MSTRG.13890.2	MBOAT7	971.5	0	4.17E-07
MBTD1_g4105.t1	MBTD1	524	0	1.74E-06
MSTRG.4328.5	MBTD1	0	194.5	1.97E-06
MCCB_g16544.t1	MCCC2	130.5	2.5	2.54E-02
MCEE_g12747.t1	MCEE	36.5	0	3.98E-02
GANP_g15052.t2	MCM3AP	267.5	0	2.91E-05
MCM5_g9851.t1	MCM5	32.5	0	4.97E-02
MCTP1_g16652.t1	MCTP1	35	0	4.29E-02
MSTRG.2579.2	MDC1	626	0	9.27E-06
MSTRG.2579.3	MDC1	55	0	1.32E-02
MDFI_g2625.t1	MDFI	105.5	0	1.31E-03
MSTRG.284.2	MDFIC	184	0	4.00E-04
MSTRG.4861.2	MDM2	369.5	0	2.73E-05
MGDP1_g12074.t1	MDP1	98.5	0	5.49E-03
MSTRG.3223.2	ME2	2001	0	1.03E-07
MD12L_g17928.t1	MED12L	39	0	5.47E-02
MSTRG.14957.4	MED15	332	0	1.53E-06
MSTRG.16877.3	MED16	655	0	4.88E-06
MSTRG.8264.1	MED18	296	0	2.22E-05
MED7_g17032.t1	MED7	309	0	1.85E-05

MSTRG.8375.3	MED8	145.5	0	9.51E-03
MSTRG.12611.3	MEF2A	425.5	0	1.02E-05
MEFV_g10677.t1	MEFV	836	0	4.81E-07
MEGF8_g14791.t1	MEGF8	38	0	3.18E-02
MEGF9_g11687.t1	MEGF9	30.5	226.5	9.08E-03
MSTRG.1599.2	MEMO1	619.5	23.5	1.08E-02
MSTRG.10298.1	MEPCE	170	0	4.87E-03
MEPE_g20619.t1	MEPE	47	0	3.14E-02
MEST_g256.t1	MEST	755	0	5.54E-07
MSTRG.9837.1	METAP2	1525.5	0	5.99E-08
METRN_g10580.t1	METRN_g10580.t1	63.5	0	7.19E-03
MSTRG.4837.2	METRNL	55.5	0	1.59E-02
MET14_g1756.t1	METTL14	492.5	0	6.89E-06
MET15_g20143.t1	METTL15	510	0	2.15E-06
MET16_g3857.t1	METTL16	21	895.5	5.44E-04
MET17_g12171.t1	METTL17	237	0	8.17E-06
MSTRG.19884.1	METTL21A	85	0	1.30E-02
MSTRG.4557.4	METTL2A	410	0	2.72E-04
MSTRG.3044.1	METTL4	59.5	0	8.67E-03
MSTRG.20155.1	METTL5	53.5	0	2.55E-02
MSTRG.17495.4	METTL6	114	0	6.88E-04
MEX3C_g3006.t1	MEX3C	217.5	0	4.58E-04
MSTRG.16908.2	MEX3D	344	0	1.48E-05
MSTRG.15362.3	MFF	592	12.5	1.17E-02
MSTRG.7835.3	MFN2	827	0	6.77E-07
MFSD1_g6074.t1	MFSD1	224	0	6.15E-04
MFS11_g4585.t1	MFSD11	89.5	0	2.98E-03
MSTRG.15925.3	MFSD9	86	0	1.73E-02
MSTRG.12174.3	MGA	229.5	0	2.13E-06
MSTRG.16590.1	MGAT1	1228.5	0	1.15E-07
MSTRG.1431.1	MGAT5	222.5	0	4.78E-05
MSTRG.8449.1	MGME1	193.5	0	1.38E-02
MGRN1_g10645.t1	MGRN1	61	589	1.40E-02
MSTRG.15156.4	MIA3	135.5	0	1.34E-03
MIAB_g5529.t1	MIAB_g5529.t1	624	0	2.01E-06
MIB1_g2856.t1	MIB1_g2856.t1	618.5	0	1.77E-06
MIB2_g7631.t1	MIB2	155.5	0	2.26E-04
MSTRG.7463.13	MICAL1	0	1106.5	5.97E-07
MSTRG.5443.1	MICAL3	627	0	4.79E-03

MSTRG.9963.2	MICALL1	629.5	0	1.98E-06
MILL2_g14685.t1	MICB	1244.5	140	4.35E-02
MSTRG.11212.2	MICU3	255.5	0	6.39E-05
MSTRG.16894.5	MIDN	7	621	1.46E-02
MSTRG.9994.2	MIEF1	679	0	7.39E-07
MSTRG.7247.3	MIER1	1409.5	54	1.23E-05
MIF_g15541.t1	MIF	77.5	0	7.59E-03
MIGA1_g7178.t2	MIGA1	2466.5	0	8.54E-09
MSTRG.7838.2	MIIP	113.5	0	8.44E-04
MSTRG.449.1	MIOS	938	1.5	4.82E-07
MSTRG.4007.1	MIS12	241	0	2.16E-06
MITD1_g16439.t1	MITD1	92	0	2.24E-03
MIX23_g3403.t1	MIX23	347	8	4.58E-02
MSTRG.17901.3	MKI67	2766	0	2.70E-08
MKKS_g8426.t1	MKKS	65.5	0	1.01E-02
MKNK1_g8244.t1	MKNK1	47.5	0	2.59E-02
MSTRG.14576.2	MKX	12262	955	2.25E-02
MLEC_g15381.t1	MLEC	1491.5	0	5.79E-08
MSTRG.17028.2	MLLT1	87.5	0	7.25E-03
MSTRG.6055.6	MLLT3	325.5	0	1.43E-05
MSTRG.4394.3	MLLT6	185.5	0	2.99E-04
AF17_g4193.t1	MLLT6	39.5	0	3.21E-02
MSTRG.14798.1	MMAB	34	0	4.39E-02
PAQRB_g4093.t1	MMD	83	1.5	2.11E-02
MSTRG.17325.1	MME	0	21.5	4.36E-02
MSTRG.15011.2	MMP17	50	0	2.48E-02
MMP23_g7632.t1	MMP23B	97.5	0	1.21E-02
MNS1_g12505.t1	MNS1	215	0	8.98E-04
MNT_g3858.t1	MNT	174.5	0	1.30E-04
MSTRG.4041.2	MNT	295	0	3.57E-04
MOB3A_g17606.t1	MOB3A	1047.5	0	3.84E-06
MOCOS_g2949.t1	MOCOS	89.5	0	2.91E-03
MOCS1_g2606.t1	MOCS1	282	0	5.01E-05
MSTRG.1292.1	MOGS	59	0	7.85E-03
MSTRG.17722.2	MON1A	387	0	4.79E-06
MON1A_g18334.t2	MON1A	51	0	1.33E-02
MSTRG.4916.3	MON2	936	0	1.25E-06
MSTRG.20863.4	MORC4	256.5	0	4.21E-05
MSTRG.20863.1	MORC4	454	37.5	1.39E-02

MSTRG.6963.2	MOV10	90.5	0	5.27E-02
MSTRG.1205.1	MPHOSPH8	293	0	7.66E-04
MSTRG.14656.3	MPHOSPH9	286.5	0	3.31E-05
MSTRG.14656.2	MPHOSPH9	155	0	3.70E-04
MSTRG.7940.2	MPL	66.5	0	6.22E-03
MSTRG.3803.5	MPRIP	0	431	8.21E-07
MERB1_g10566.t2	MPV17L	53.5	0	2.84E-02
MSTRG.4566.3	MRC2	515.5	0	6.27E-06
MSTRG.4566.1	MRC2	337	2507.5	2.74E-02
MSTRG.18916.2	MRE11	583	0	8.60E-07
MSTRG.8849.1	MRGBP	19	330.5	1.15E-05
MSTRG.16638.2	MRI1	119.5	0	5.63E-04
MTNA_g17257.t1	MRI1	1307	33.5	6.67E-03
MRM3_g3894.t1	MRM3	96.5	0	1.45E-02
MSTRG.9189.1	MROH1	563.5	0	8.97E-07
MROH5_g9141.t1	MROH5	43	0	3.03E-02
RM10_g4178.t1	MRPL10	51	0	1.28E-02
RM16_g13844.t1	MRPL16	100.5	485.5	1.76E-02
RM17_g19975.t1	MRPL17	97.5	0	1.25E-03
MSTRG.13668.1	MRPL21	61	0	8.82E-03
RM03_g18048.t1	MRPL3	427	4.5	3.18E-03
RM37_g8173.t1	MRPL37	32.5	0	5.30E-02
RM45_g4185.t2	MRPL45	55	0	1.40E-02
RM46_g12798.t1	MRPL46	713	0	6.50E-07
MSTRG.5386.4	MRPL51	62.5	0	6.44E-03
MSTRG.5386.2	MRPL51	63.5	0	6.92E-03
RM53_g1228.t1	MRPL53	53.5	0	1.09E-02
ICT1_g4525.t1	MRPL58	299	2	2.04E-04
RT11_g12799.t1	MRPS11	336	0	5.69E-05
MSTRG.2831.2	MRPS18B	733	0	4.42E-06
RT33_g191.t2	MRPS33	1065	0	6.62E-06
MSTRG.5216.3	MRPS35	223	0	5.59E-05
MSTRG.5216.2	MRPS35	128	0	5.50E-04
RT05_g16390.t1	MRPS5	1063	35.5	4.95E-02
CD20_g13855.t2	MS4A1	51.5	0	1.26E-02
MSTRG.16006.2	MSH3	0	136	2.82E-06
MSTRG.2613.1	MSH5	260	0	1.84E-06
MSTRG.2613.4	MSH5	141	0	9.23E-04
MSTRG.20423.1	MSL3	189.5	0	2.77E-06

MSTRG.18382.2	MSS51	1185.5	113.5	2.19E-02
MSTRG.17719.3	MST1	198	3	5.21E-02
MSTRG.10013.1	MSTRG.10013.1	344	0	2.06E-05
MSTRG.10039.1	MSTRG.10039.1	432	0	7.30E-05
MSTRG.10043.17	MSTRG.10043.17	168	11	3.99E-02
MSTRG.10050.2	MSTRG.10050.2	580	0	2.40E-06
MSTRG.10099.1	MSTRG.10099.1	41	0	2.58E-02
MSTRG.10109.1	MSTRG.10109.1	44	0	2.68E-02
MSTRG.10131.4	MSTRG.10131.4	155.5	0	3.20E-04
MSTRG.10137.2	MSTRG.10137.2	55	0	1.14E-02
MSTRG.10142.2	MSTRG.10142.2	113	3	5.31E-02
MSTRG.10151.2	MSTRG.10151.2	206.5	0	2.75E-06
MSTRG.10192.2	MSTRG.10192.2	196	0	4.18E-06
MSTRG.10203.2	MSTRG.10203.2	41.5	0	3.89E-02
MSTRG.10279.1	MSTRG.10279.1	709	0	9.06E-07
MSTRG.10279.4	MSTRG.10279.4	246.5	0	4.06E-05
MSTRG.10295.2	MSTRG.10295.2	224.5	0	9.64E-05
MSTRG.10322.1	MSTRG.10322.1	249.5	0	1.91E-06
MSTRG.10322.2	MSTRG.10322.2	178	0	3.04E-06
MSTRG.10322.3	MSTRG.10322.3	310.5	0	1.58E-06
MSTRG.10322.4	MSTRG.10322.4	212.5	0	2.34E-06
MSTRG.10350.1	MSTRG.10350.1	50	0	1.42E-02
MSTRG.10359.5	MSTRG.10359.5	7	105.5	2.35E-03
MSTRG.10386.1	MSTRG.10386.1	31.5	0	5.47E-02
MSTRG.10411.3	MSTRG.10411.3	2997.5	217	1.79E-03
MSTRG.1046.2	MSTRG.1046.2	248.5	0	1.58E-03
MSTRG.10528.1	MSTRG.10528.1	112	0	1.83E-03
MSTRG.10538.2	MSTRG.10538.2	462	0	9.48E-06
MSTRG.10548.1	MSTRG.10548.1	361	2982.5	1.46E-02
MSTRG.10555.1	MSTRG.10555.1	76.5	0	7.11E-03
MSTRG.10583.1	MSTRG.10583.1	80	0	5.63E-03
MSTRG.106.1	MSTRG.106.1	54.5	0	1.72E-02
MSTRG.1060.1	MSTRG.1060.1	760	0	5.48E-07
MSTRG.10607.3	MSTRG.10607.3	53	0	1.13E-02
MSTRG.10620.2	MSTRG.10620.2	213	0	2.14E-04
MSTRG.10678.1	MSTRG.10678.1	58.5	0	9.26E-03
MSTRG.10697.1	MSTRG.10697.1	165.5	0	1.81E-04
MSTRG.10780.1	MSTRG.10780.1	430.5	0	5.79E-04
MSTRG.10815.1	MSTRG.10815.1	99	0	2.36E-03

MSTRG.1084.1	MSTRG.1084.1	391.5	0	2.00E-05
MSTRG.10886.1	MSTRG.10886.1	83	0	5.41E-03
MSTRG.1093.1	MSTRG.1093.1	387.5	0	5.91E-06
MSTRG.10943.1	MSTRG.10943.1	39	0	2.98E-02
MSTRG.10978.1	MSTRG.10978.1	710	73.5	9.07E-03
MSTRG.1099.4	MSTRG.1099.4	326.5	0	1.20E-02
MSTRG.1099.8	MSTRG.1099.8	947.5	5327.5	1.08E-02
MSTRG.10990.1	MSTRG.10990.1	38	0	3.18E-02
MSTRG.11003.1	MSTRG.11003.1	445.5	0	3.25E-05
MSTRG.11019.1	MSTRG.11019.1	322.5	0	1.56E-06
MSTRG.11029.1	MSTRG.11029.1	46	0	1.78E-02
MSTRG.11043.1	MSTRG.11043.1	39	0	3.06E-02
MSTRG.11046.1	MSTRG.11046.1	106	0	4.89E-03
MSTRG.11061.1	MSTRG.11061.1	103.5	0	9.93E-03
MSTRG.11062.1	MSTRG.11062.1	193	0	2.59E-04
MSTRG.11064.1	MSTRG.11064.1	338.5	3	9.55E-04
MSTRG.11116.4	MSTRG.11116.4	197	0	2.99E-04
MSTRG.11124.1	MSTRG.11124.1	67	0	5.25E-03
MSTRG.11148.1	MSTRG.11148.1	1485.5	0	4.92E-07
MSTRG.11162.1	MSTRG.11162.1	38	0	3.23E-02
MSTRG.11173.1	MSTRG.11173.1	79.5	0	3.45E-03
MSTRG.11187.2	MSTRG.11187.2	223.5	0	4.43E-05
MSTRG.112.1	MSTRG.112.1	46.5	0	2.33E-02
MSTRG.11220.1	MSTRG.11220.1	3	34	4.42E-02
MSTRG.11254.1	MSTRG.11254.1	118	0	2.02E-02
MSTRG.11257.1	MSTRG.11257.1	109	0	7.91E-04
MSTRG.11305.4	MSTRG.11305.4	47	0	1.67E-02
MSTRG.11344.3	MSTRG.11344.3	199	0	1.33E-02
MSTRG.11371.1	MSTRG.11371.1	751	0	7.18E-07
MSTRG.11407.2	MSTRG.11407.2	223.5	0	4.91E-05
MSTRG.11431.1	MSTRG.11431.1	854	0	3.66E-07
MSTRG.11431.3	MSTRG.11431.3	752	0.5	8.59E-07
MSTRG.11431.6	MSTRG.11431.6	98	0	2.31E-02
MSTRG.11455.2	MSTRG.11455.2	401	0	1.37E-06
MSTRG.11457.3	MSTRG.11457.3	203.5	0	3.89E-04
MSTRG.11466.2	MSTRG.11466.2	131.5	0	1.38E-02
MSTRG.11467.4	MSTRG.11467.4	1182.5	0	3.03E-07
MSTRG.11487.3	MSTRG.11487.3	3329.5	0	5.23E-09
MSTRG.11627.4	MSTRG.11627.4	633.5	0	3.84E-06

MSTRG.11639.3	MSTRG.11639.3	494.5	0	1.04E-05
MSTRG.11666.3	MSTRG.11666.3	1024.5	0	1.14E-05
MSTRG.11668.3	MSTRG.11668.3	259.5	0	2.90E-04
MSTRG.11669.1	MSTRG.11669.1	120	0	5.62E-03
MSTRG.11774.1	MSTRG.11774.1	342.5	0	2.84E-05
MSTRG.11778.2	MSTRG.11778.2	134	0	3.91E-04
MSTRG.11784.2	MSTRG.11784.2	113	0	7.57E-04
MSTRG.11793.2	MSTRG.11793.2	569	0	1.54E-06
MSTRG.1180.4	MSTRG.1180.4	36	0	3.77E-02
MSTRG.11817.1	MSTRG.11817.1	23451	2980	4.41E-02
MSTRG.11890.1	MSTRG.11890.1	711.5	0	2.02E-06
MSTRG.1193.1	MSTRG.1193.1	199	0	1.20E-03
MSTRG.11959.1	MSTRG.11959.1	0	22	5.08E-02
MSTRG.11966.2	MSTRG.11966.2	5325.5	0	4.73E-09
MSTRG.11966.3	MSTRG.11966.3	1777	16.5	3.70E-02
MSTRG.11976.1	MSTRG.11976.1	0	27	2.63E-02
MSTRG.11989.1	MSTRG.11989.1	1	32	2.67E-02
MSTRG.12034.6	MSTRG.12034.6	180.5	0	1.79E-04
MSTRG.12043.1	MSTRG.12043.1	0	26	2.27E-02
MSTRG.12047.5	MSTRG.12047.5	0	45.5	6.20E-03
MSTRG.12048.1	MSTRG.12048.1	33.5	569	1.77E-03
MSTRG.12121.1	MSTRG.12121.1	1.5	30.5	2.84E-02
MSTRG.12139.3	MSTRG.12139.3	275.5	0	1.74E-06
MSTRG.12175.1	MSTRG.12175.1	1079	0	9.50E-07
MSTRG.12195.4	MSTRG.12195.4	132.5	0	4.08E-04
MSTRG.122.1	MSTRG.122.1	0	24.5	3.10E-02
MSTRG.12229.1	MSTRG.12229.1	51	0	4.61E-02
MSTRG.12239.3	MSTRG.12239.3	2794.5	192	4.59E-02
MSTRG.1225.1	MSTRG.1225.1	1262.5	0	1.87E-07
MSTRG.12333.1	MSTRG.12333.1	0.5	27.5	4.38E-02
MSTRG.12343.1	MSTRG.12343.1	0.5	44.5	1.41E-02
MSTRG.12347.1	MSTRG.12347.1	0	24	2.87E-02
MSTRG.12362.5	MSTRG.12362.5	3297.5	0	4.04E-08
MSTRG.12467.3	MSTRG.12467.3	512.5	0	1.87E-06
MSTRG.12473.2	MSTRG.12473.2	111.5	0	1.72E-03
MSTRG.12552.1	MSTRG.12552.1	0.5	29.5	2.48E-02
MSTRG.12556.1	MSTRG.12556.1	0.5	35	2.91E-02
MSTRG.12588.1	MSTRG.12588.1	40.5	0	2.69E-02
MSTRG.126.1	MSTRG.126.1	378	0	2.48E-05

MSTRG.1260.1	MSTRG.1260.1	603.5	14	8.42E-04
MSTRG.12606.2	MSTRG.12606.2	157	0	1.89E-04
MSTRG.12628.1	MSTRG.12628.1	15.5	114	1.46E-02
MSTRG.12638.1	MSTRG.12638.1	1	40	5.31E-02
MSTRG.12669.3	MSTRG.12669.3	1436.5	0	1.61E-07
MSTRG.12682.1	MSTRG.12682.1	3035.5	0	4.73E-09
MSTRG.12686.4	MSTRG.12686.4	67.5	0	6.16E-03
MSTRG.1274.2	MSTRG.1274.2	68.5	0	4.94E-03
MSTRG.1274.5	MSTRG.1274.5	39.5	0	2.90E-02
MSTRG.12806.1	MSTRG.12806.1	132.5	0	5.53E-03
MSTRG.12838.1	MSTRG.12838.1	33.5	0	4.92E-02
MSTRG.12846.1	MSTRG.12846.1	213	20	4.07E-02
MSTRG.12846.2	MSTRG.12846.2	250.5	0	6.68E-05
MSTRG.12944.1	MSTRG.12944.1	40	0	4.16E-02
MSTRG.12957.2	MSTRG.12957.2	252	1452	8.15E-03
MSTRG.1298.1	MSTRG.1298.1	134	0	1.26E-02
MSTRG.13004.1	MSTRG.13004.1	3	36.5	2.36E-02
MSTRG.13118.4	MSTRG.13118.4	260	0	2.68E-05
MSTRG.13138.3	MSTRG.13138.3	87	5.5	2.28E-02
MSTRG.13146.2	MSTRG.13146.2	384.5	0	4.76E-05
MSTRG.1315.1	MSTRG.1315.1	96	0	1.30E-03
MSTRG.13165.7	MSTRG.13165.7	36	0	3.79E-02
MSTRG.13192.1	MSTRG.13192.1	171	0	1.96E-04
MSTRG.13251.4	MSTRG.13251.4	4	670	5.42E-02
MSTRG.13394.3	MSTRG.13394.3	46.5	0	1.73E-02
MSTRG.13410.1	MSTRG.13410.1	0	26	3.19E-02
MSTRG.13419.1	MSTRG.13419.1	57	0	1.02E-02
MSTRG.1344.2	MSTRG.1344.2	51	0	1.29E-02
MSTRG.1344.3	MSTRG.1344.3	14	279.5	1.43E-02
MSTRG.135.1	MSTRG.135.1	131.5	9	9.44E-03
MSTRG.13624.3	MSTRG.13624.3	149	0	2.27E-04
MSTRG.13667.1	MSTRG.13667.1	1687.5	0	4.27E-07
MSTRG.13667.3	MSTRG.13667.3	290.5	0	2.30E-05
MSTRG.13667.5	MSTRG.13667.5	1799	0	2.70E-08
MSTRG.13677.1	MSTRG.13677.1	1202.5	0	1.24E-07
MSTRG.13719.2	MSTRG.13719.2	788	0	6.89E-07
MSTRG.13722.1	MSTRG.13722.1	634	0	8.02E-07
MSTRG.13761.4	MSTRG.13761.4	45.5	0	2.28E-02
MSTRG.13793.1	MSTRG.13793.1	272	0	1.87E-06

MSTRG.13793.3	MSTRG.13793.3	310.5	0	1.58E-05
MSTRG.13819.1	MSTRG.13819.1	4.5	46	3.47E-02
MSTRG.14000.1	MSTRG.14000.1	179	0	2.63E-03
MSTRG.1406.1	MSTRG.1406.1	879	0	9.81E-07
MSTRG.1407.1	MSTRG.1407.1	545	0	1.51E-06
MSTRG.14094.3	MSTRG.14094.3	115	0	4.69E-03
MSTRG.14095.2	MSTRG.14095.2	42	0	3.37E-02
MSTRG.14121.1	MSTRG.14121.1	214	0	1.54E-04
MSTRG.14244.2	MSTRG.14244.2	94.5	1.5	1.93E-02
MSTRG.1437.1	MSTRG.1437.1	57	0	8.84E-03
MSTRG.14376.1	MSTRG.14376.1	65.5	0	5.59E-03
MSTRG.14379.1	MSTRG.14379.1	115	0	1.00E-03
MSTRG.14379.5	MSTRG.14379.5	176	0	2.02E-04
MSTRG.14410.1	MSTRG.14410.1	286.5	0	2.94E-05
MSTRG.14413.2	MSTRG.14413.2	234.5	0	9.33E-05
MSTRG.14420.1	MSTRG.14420.1	200	0	6.84E-05
MSTRG.14420.2	MSTRG.14420.2	84.5	0	3.24E-03
MSTRG.14452.1	MSTRG.14452.1	10	77	5.36E-02
MSTRG.14458.4	MSTRG.14458.4	201.5	0	2.51E-04
MSTRG.14475.1	MSTRG.14475.1	276	0	2.27E-05
MSTRG.14475.3	MSTRG.14475.3	191	0	4.25E-04
MSTRG.14538.3	MSTRG.14538.3	205.5	0.5	2.02E-04
MSTRG.14553.3	MSTRG.14553.3	52	0	1.44E-02
MSTRG.1458.1	MSTRG.1458.1	719.5	0	2.12E-06
MSTRG.14587.2	MSTRG.14587.2	344	0	8.05E-06
MSTRG.1461.1	MSTRG.1461.1	39	0	3.05E-02
MSTRG.14671.2	MSTRG.14671.2	398	0	3.20E-05
MSTRG.14690.2	MSTRG.14690.2	3048	0	3.20E-07
MSTRG.14715.2	MSTRG.14715.2	493.5	0	7.75E-06
MSTRG.1475.1	MSTRG.1475.1	366.5	0	8.32E-06
MSTRG.1477.1	MSTRG.1477.1	68	0	7.22E-03
MSTRG.1478.1	MSTRG.1478.1	39	0	4.36E-02
MSTRG.14879.2	MSTRG.14879.2	237.5	0	8.15E-06
MSTRG.14886.1	MSTRG.14886.1	357	0	9.53E-05
MSTRG.14906.1	MSTRG.14906.1	1085.5	0	1.71E-07
MSTRG.14936.1	MSTRG.14936.1	108	0	9.19E-04
MSTRG.14960.1	MSTRG.14960.1	54	0	1.05E-02
MSTRG.14998.1	MSTRG.14998.1	39.5	0	3.37E-02
MSTRG.15010.3	MSTRG.15010.3	3193.5	0	7.11E-07

MSTRG.15018.6	MSTRG.15018.6	1216.5	0	7.54E-06
MSTRG.1510.3	MSTRG.1510.3	243	0	3.88E-05
MSTRG.1510.4	MSTRG.1510.4	0.5	152	7.30E-05
MSTRG.15105.2	MSTRG.15105.2	39.5	0	2.97E-02
MSTRG.15132.1	MSTRG.15132.1	2	36	1.59E-02
MSTRG.15134.1	MSTRG.15134.1	7	62	3.88E-02
MSTRG.1517.1	MSTRG.1517.1	1109	0	3.51E-07
MSTRG.15210.2	MSTRG.15210.2	64.5	0	5.65E-03
MSTRG.15248.1	MSTRG.15248.1	288.5	0.5	3.45E-05
MSTRG.15298.2	MSTRG.15298.2	497	0	1.91E-06
MSTRG.15298.3	MSTRG.15298.3	332	0	3.51E-05
MSTRG.1530.1	MSTRG.1530.1	97.5	0	4.43E-03
MSTRG.15303.2	MSTRG.15303.2	37.5	0	3.75E-02
MSTRG.15367.2	MSTRG.15367.2	1863.5	0	1.06E-03
MSTRG.15377.1	MSTRG.15377.1	13	84	1.64E-02
MSTRG.15419.1	MSTRG.15419.1	46.5	0	2.19E-02
MSTRG.15462.2	MSTRG.15462.2	119	0	5.63E-04
MSTRG.15485.1	MSTRG.15485.1	22.5	567	2.24E-02
MSTRG.15486.1	MSTRG.15486.1	606	3	3.21E-03
MSTRG.15486.2	MSTRG.15486.2	183.5	0	1.83E-04
MSTRG.15486.3	MSTRG.15486.3	196	0	1.81E-04
MSTRG.15486.4	MSTRG.15486.4	222	0	4.63E-05
MSTRG.15536.4	MSTRG.15536.4	1517.5	9.5	5.42E-07
MSTRG.15573.2	MSTRG.15573.2	181.5	0	1.62E-04
MSTRG.15573.3	MSTRG.15573.3	409	0	5.10E-06
MSTRG.15608.4	MSTRG.15608.4	611	0	8.37E-07
MSTRG.15627.1	MSTRG.15627.1	2	37.5	2.53E-02
MSTRG.15630.1	MSTRG.15630.1	0.5	30	2.24E-02
MSTRG.15631.1	MSTRG.15631.1	5.5	48	5.30E-02
MSTRG.1566.1	MSTRG.1566.1	1010.5	17	4.42E-02
MSTRG.15778.3	MSTRG.15778.3	428.5	23.5	9.38E-04
MSTRG.1578.1	MSTRG.1578.1	138	0	3.07E-04
MSTRG.15788.3	MSTRG.15788.3	573	0	1.33E-06
MSTRG.1582.1	MSTRG.1582.1	49	0	2.16E-02
MSTRG.15919.1	MSTRG.15919.1	10	78	2.96E-02
MSTRG.15969.2	MSTRG.15969.2	4989	46	1.05E-02
MSTRG.1597.1	MSTRG.1597.1	207	0	2.35E-03
MSTRG.15988.3	MSTRG.15988.3	2241	0	3.74E-07
MSTRG.15991.2	MSTRG.15991.2	526	0	5.64E-06

MSTRG.16028.1	MSTRG.16028.1	162	0	2.20E-04
MSTRG.16139.2	MSTRG.16139.2	4673.5	0	1.24E-09
MSTRG.16139.3	MSTRG.16139.3	2586.5	0	3.51E-07
MSTRG.16400.1	MSTRG.16400.1	480.5	0	1.41E-03
MSTRG.16400.4	MSTRG.16400.4	579	22.5	1.40E-02
MSTRG.16422.2	MSTRG.16422.2	2630.5	48.5	9.44E-05
MSTRG.16531.1	MSTRG.16531.1	109.5	605.5	6.07E-03
MSTRG.16531.2	MSTRG.16531.2	480.5	0	2.13E-06
MSTRG.16531.5	MSTRG.16531.5	209	0	1.97E-03
MSTRG.1654.1	MSTRG.1654.1	298	0	1.41E-05
MSTRG.16589.2	MSTRG.16589.2	175	0	2.04E-04
MSTRG.16592.1	MSTRG.16592.1	0.5	31.5	2.18E-02
MSTRG.16593.5	MSTRG.16593.5	37	0	3.64E-02
MSTRG.16719.2	MSTRG.16719.2	68.5	0	4.87E-03
MSTRG.16719.4	MSTRG.16719.4	63.5	0	6.35E-03
MSTRG.16977.2	MSTRG.16977.2	924	0	6.37E-07
MSTRG.1706.1	MSTRG.1706.1	127.5	0	2.23E-02
MSTRG.1707.1	MSTRG.1707.1	1436	0	1.03E-07
MSTRG.17098.2	MSTRG.17098.2	480.5	0	1.50E-04
MSTRG.17102.1	MSTRG.17102.1	156.5	978	1.65E-02
MSTRG.17102.2	MSTRG.17102.2	723.5	0	1.02E-06
MSTRG.17102.3	MSTRG.17102.3	131.5	0	4.29E-04
MSTRG.17134.2	MSTRG.17134.2	70.5	0	4.13E-02
MSTRG.17145.1	MSTRG.17145.1	0.5	28	4.25E-02
MSTRG.1720.1	MSTRG.1720.1	130.5	0	5.53E-04
MSTRG.1722.1	MSTRG.1722.1	8	281	3.16E-02
MSTRG.17228.2	MSTRG.17228.2	1667	0	7.92E-08
MSTRG.17228.3	MSTRG.17228.3	888	0	6.51E-07
MSTRG.17228.4	MSTRG.17228.4	2411.5	0	1.47E-07
MSTRG.17229.1	MSTRG.17229.1	0.5	34	1.63E-02
MSTRG.17231.1	MSTRG.17231.1	2	29	4.72E-02
MSTRG.1726.10	MSTRG.1726.10	108	0	3.00E-03
MSTRG.1726.8	MSTRG.1726.8	94	0	1.44E-03
MSTRG.1729.1	MSTRG.1729.1	53	0	1.61E-02
MSTRG.17311.2	MSTRG.17311.2	73.5	0	2.82E-02
MSTRG.17374.2	MSTRG.17374.2	391.5	0	1.76E-05
MSTRG.17540.1	MSTRG.17540.1	65.5	0	5.75E-03
MSTRG.17611.2	MSTRG.17611.2	1067	8.5	3.14E-02
MSTRG.1764.2	MSTRG.1764.2	1401	0	9.69E-08

MSTRG.17669.4	MSTRG.17669.4	1337.5	0	1.47E-07
MSTRG.17824.3	MSTRG.17824.3	762	0	5.09E-07
MSTRG.17836.1	MSTRG.17836.1	33	0	4.77E-02
MSTRG.17849.1	MSTRG.17849.1	0.5	26.5	4.48E-02
MSTRG.17866.6	MSTRG.17866.6	255	0	4.19E-05
MSTRG.1789.1	MSTRG.1789.1	5	45	2.42E-02
MSTRG.17956.2	MSTRG.17956.2	996	0	8.45E-07
MSTRG.1798.1	MSTRG.1798.1	3.5	40.5	3.99E-02
MSTRG.17987.3	MSTRG.17987.3	393.5	0	5.82E-06
MSTRG.18018.1	MSTRG.18018.1	4.5	43	4.28E-02
MSTRG.1803.1	MSTRG.1803.1	1.5	25	3.46E-02
MSTRG.18037.2	MSTRG.18037.2	35	0	4.81E-02
MSTRG.18166.1	MSTRG.18166.1	6.5	53.5	2.51E-02
MSTRG.18178.7	MSTRG.18178.7	2245	17.5	6.24E-04
MSTRG.1819.4	MSTRG.1819.4	79	0	3.37E-03
MSTRG.18204.1	MSTRG.18204.1	0.5	27.5	2.75E-02
MSTRG.18219.2	MSTRG.18219.2	528	0	2.03E-06
MSTRG.1825.2	MSTRG.1825.2	872	0	3.51E-07
MSTRG.18252.1	MSTRG.18252.1	338	0	8.40E-06
MSTRG.18269.2	MSTRG.18269.2	252.5	0	1.90E-06
MSTRG.18370.1	MSTRG.18370.1	174.5	0	2.32E-04
MSTRG.18374.3	MSTRG.18374.3	100.5	0	7.37E-03
MSTRG.18375.2	MSTRG.18375.2	21.5	573.5	3.74E-05
MSTRG.18375.3	MSTRG.18375.3	99.5	0	1.53E-02
MSTRG.18436.1	MSTRG.18436.1	1	25.5	2.50E-02
MSTRG.18467.1	MSTRG.18467.1	1	25	3.52E-02
MSTRG.1851.4	MSTRG.1851.4	5	1137	2.09E-03
MSTRG.18521.3	MSTRG.18521.3	130	0	1.40E-03
MSTRG.18758.1	MSTRG.18758.1	299.5	38.5	3.76E-02
MSTRG.1877.1	MSTRG.1877.1	7.5	48.5	4.41E-02
MSTRG.18816.3	MSTRG.18816.3	114.5	0	7.83E-04
MSTRG.18893.1	MSTRG.18893.1	49.5	0	2.76E-02
MSTRG.18931.2	MSTRG.18931.2	232.5	0	2.10E-06
MSTRG.18949.1	MSTRG.18949.1	107	0	2.84E-03
MSTRG.18957.1	MSTRG.18957.1	9	62	3.51E-02
MSTRG.19.5	MSTRG.19.5	89.5	1	2.22E-03
MSTRG.19053.4	MSTRG.19053.4	388.5	0	2.94E-05
MSTRG.19073.3	MSTRG.19073.3	188	0	9.63E-05
MSTRG.19075.3	MSTRG.19075.3	161	0	1.14E-03

MSTRG.19129.13	MSTRG.19129.13	89	0	3.91E-03
MSTRG.19176.3	MSTRG.19176.3	1028	0	5.28E-07
MSTRG.19177.2	MSTRG.19177.2	444.5	0	1.21E-04
MSTRG.1919.3	MSTRG.1919.3	428.5	0	2.34E-05
MSTRG.1919.6	MSTRG.1919.6	765	0	6.25E-07
MSTRG.19334.7	MSTRG.19334.7	93	0	2.55E-03
MSTRG.19339.1	MSTRG.19339.1	267	0	1.91E-06
MSTRG.19340.2	MSTRG.19340.2	508.5	0	5.24E-06
MSTRG.19340.5	MSTRG.19340.5	477	0	5.84E-06
MSTRG.19407.4	MSTRG.19407.4	4.5	50.5	2.14E-02
MSTRG.19437.2	MSTRG.19437.2	220	0	2.25E-06
MSTRG.19475.1	MSTRG.19475.1	0	33	1.61E-02
MSTRG.19491.2	MSTRG.19491.2	1048	0	1.86E-07
MSTRG.19492.1	MSTRG.19492.1	6	54	3.20E-02
MSTRG.19508.2	MSTRG.19508.2	54	0	2.51E-02
MSTRG.19576.2	MSTRG.19576.2	562	0	2.98E-05
MSTRG.19587.5	MSTRG.19587.5	173.5	0	3.30E-04
MSTRG.19587.7	MSTRG.19587.7	193	0	4.33E-04
MSTRG.1964.3	MSTRG.1964.3	16254.5	1404	2.17E-02
MSTRG.19746.3	MSTRG.19746.3	4360.5	0	1.47E-07
MSTRG.19747.4	MSTRG.19747.4	73	0	7.31E-03
MSTRG.19747.6	MSTRG.19747.6	170	0	1.33E-04
MSTRG.19747.7	MSTRG.19747.7	211	0	5.76E-05
MSTRG.19762.1	MSTRG.19762.1	723.5	0	7.31E-04
MSTRG.19762.4	MSTRG.19762.4	2961.5	3.5	8.08E-05
MSTRG.19762.5	MSTRG.19762.5	0	730.5	5.63E-04
MSTRG.19815.1	MSTRG.19815.1	49.5	0	1.86E-02
MSTRG.19851.1	MSTRG.19851.1	84.5	0	2.10E-03
MSTRG.19851.3	MSTRG.19851.3	127.5	0	4.79E-04
MSTRG.19867.1	MSTRG.19867.1	63	0	6.92E-03
MSTRG.19875.2	MSTRG.19875.2	1081	0	4.26E-07
MSTRG.19903.3	MSTRG.19903.3	75.5	0	6.97E-03
MSTRG.19934.2	MSTRG.19934.2	652.5	0	8.02E-06
MSTRG.20005.1	MSTRG.20005.1	0	32	3.06E-02
MSTRG.20012.1	MSTRG.20012.1	2.5	34.5	2.53E-02
MSTRG.20024.3	MSTRG.20024.3	368.5	0	1.52E-05
MSTRG.20040.2	MSTRG.20040.2	15	209.5	6.07E-03
MSTRG.20088.1	MSTRG.20088.1	0.5	22.5	5.10E-02
MSTRG.20089.1	MSTRG.20089.1	2.5	32.5	3.89E-02

MSTRG.20168.1	MSTRG.20168.1	196	929.5	3.83E-02
MSTRG.2017.3	MSTRG.2017.3	37	0	3.45E-02
MSTRG.20281.2	MSTRG.20281.2	792.5	0	5.22E-05
MSTRG.20281.3	MSTRG.20281.3	143.5	0	3.58E-02
MSTRG.20307.3	MSTRG.20307.3	120	0	1.08E-03
MSTRG.20348.2	MSTRG.20348.2	566.5	0	2.74E-06
MSTRG.20356.2	MSTRG.20356.2	2220	0	2.07E-08
MSTRG.20362.5	MSTRG.20362.5	215.5	0	6.15E-05
MSTRG.20377.1	MSTRG.20377.1	32.5	0	5.30E-02
MSTRG.20427.3	MSTRG.20427.3	41	0	3.41E-02
MSTRG.20428.1	MSTRG.20428.1	82	2	2.99E-02
MSTRG.2044.1	MSTRG.2044.1	45.5	0	4.11E-02
MSTRG.2046.1	MSTRG.2046.1	62	0	1.11E-02
MSTRG.20493.1	MSTRG.20493.1	532.5	0	3.02E-06
MSTRG.2051.2	MSTRG.2051.2	154.5	0	1.11E-02
MSTRG.20593.3	MSTRG.20593.3	740.5	0	5.54E-07
MSTRG.20620.1	MSTRG.20620.1	68.5	0	5.30E-03
MSTRG.20635.1	MSTRG.20635.1	301.5	0	1.33E-05
MSTRG.20663.1	MSTRG.20663.1	10	347	3.55E-03
MSTRG.20668.1	MSTRG.20668.1	260.5	0	2.48E-05
MSTRG.20709.4	MSTRG.20709.4	351	21	1.69E-02
MSTRG.20944.5	MSTRG.20944.5	631	4	4.36E-04
MSTRG.21015.1	MSTRG.21015.1	55	0	1.16E-02
MSTRG.21044.3	MSTRG.21044.3	285	0	3.18E-06
MSTRG.21154.2	MSTRG.21154.2	178.5	0	1.10E-04
MSTRG.21161.1	MSTRG.21161.1	140	0	3.14E-04
MSTRG.21265.3	MSTRG.21265.3	108.5	0	9.30E-04
MSTRG.2128.3	MSTRG.2128.3	140.5	0	2.86E-04
MSTRG.21284.2	MSTRG.21284.2	88	0	2.91E-03
MSTRG.21312.1	MSTRG.21312.1	0.5	26.5	4.19E-02
MSTRG.21314.1	MSTRG.21314.1	0	29.5	2.51E-02
MSTRG.21337.1	MSTRG.21337.1	151.5	0	4.48E-03
MSTRG.21383.1	MSTRG.21383.1	1.5	38	1.29E-02
MSTRG.21430.1	MSTRG.21430.1	8.5	542	3.39E-03
MSTRG.21431.2	MSTRG.21431.2	13.5	1259	6.63E-04
MSTRG.21444.8	MSTRG.21444.8	4	109.5	7.19E-03
MSTRG.21520.1	MSTRG.21520.1	806.5	0	6.81E-07
MSTRG.21520.3	MSTRG.21520.3	50.5	0	3.46E-02
MSTRG.21520.4	MSTRG.21520.4	39.5	0	3.43E-02

MSTRG.21521.1	MSTRG.21521.1	36	214.5	3.82E-02
MSTRG.21523.1	MSTRG.21523.1	15.5	731	1.05E-03
MSTRG.21525.1	MSTRG.21525.1	8	155.5	1.81E-02
MSTRG.21527.1	MSTRG.21527.1	20	537	5.46E-03
MSTRG.21547.2	MSTRG.21547.2	97	0	1.45E-03
MSTRG.21575.1	MSTRG.21575.1	13	452	1.35E-02
MSTRG.21616.1	MSTRG.21616.1	12	717	7.21E-03
MSTRG.21616.2	MSTRG.21616.2	17.5	558	3.77E-02
MSTRG.2169.2	MSTRG.2169.2	3884	208.5	4.64E-02
MSTRG.2184.1	MSTRG.2184.1	1	41.5	3.14E-02
MSTRG.2305.1	MSTRG.2305.1	121	0	2.16E-03
MSTRG.2397.2	MSTRG.2397.2	46.5	0	2.01E-02
MSTRG.2541.1	MSTRG.2541.1	30	339.5	1.02E-02
MSTRG.2554.2	MSTRG.2554.2	67.5	0	5.03E-03
MSTRG.2556.2	MSTRG.2556.2	88	1.5	3.75E-03
MSTRG.2559.1	MSTRG.2559.1	24.5	249.5	1.22E-02
MSTRG.2563.1	MSTRG.2563.1	86.5	845.5	7.25E-03
MSTRG.2596.1	MSTRG.2596.1	45	0	2.13E-02
MSTRG.2704.2	MSTRG.2704.2	1106	0	2.13E-06
MSTRG.271.2	MSTRG.271.2	1361	0	8.84E-08
MSTRG.2851.1	MSTRG.2851.1	4	53	1.37E-02
MSTRG.2858.1	MSTRG.2858.1	38	0	3.18E-02
MSTRG.2860.2	MSTRG.2860.2	14812.5	1.5	8.66E-14
MSTRG.2901.4	MSTRG.2901.4	0.5	288.5	2.78E-04
MSTRG.2934.1	MSTRG.2934.1	1	42.5	4.55E-02
MSTRG.2960.3	MSTRG.2960.3	1	396.5	2.54E-02
MSTRG.2965.2	MSTRG.2965.2	157	0	1.85E-04
MSTRG.2965.3	MSTRG.2965.3	270	0	1.78E-06
MSTRG.2965.4	MSTRG.2965.4	2.5	467	3.44E-05
MSTRG.3070.1	MSTRG.3070.1	104.5	0	1.67E-03
MSTRG.3137.2	MSTRG.3137.2	1444.5	55	1.14E-05
MSTRG.3186.4	MSTRG.3186.4	50.5	0	2.67E-02
MSTRG.3186.5	MSTRG.3186.5	61	0	7.05E-03
MSTRG.3186.6	MSTRG.3186.6	147	0	2.63E-04
MSTRG.323.1	MSTRG.323.1	0	23.5	4.82E-02
MSTRG.3231.1	MSTRG.3231.1	0	24.5	3.23E-02
MSTRG.327.2	MSTRG.327.2	58	0	1.08E-02
MSTRG.3317.1	MSTRG.3317.1	0.5	28.5	2.84E-02
MSTRG.3321.2	MSTRG.3321.2	0	500.5	1.30E-06

MSTRG.3321.7	MSTRG.3321.7	480.5	0	3.28E-06
MSTRG.3345.1	MSTRG.3345.1	46.5	0	2.69E-02
MSTRG.3474.1	MSTRG.3474.1	58.5	275.5	3.98E-02
MSTRG.3528.2	MSTRG.3528.2	1347.5	0	2.82E-06
MSTRG.3597.1	MSTRG.3597.1	441.5	0	2.84E-06
MSTRG.361.1	MSTRG.361.1	7.5	61	3.05E-02
MSTRG.362.1	MSTRG.362.1	183.5	677.5	5.01E-02
MSTRG.3762.1	MSTRG.3762.1	37.5	0	4.93E-02
MSTRG.3768.2	MSTRG.3768.2	42.5	0	2.40E-02
MSTRG.3768.4	MSTRG.3768.4	38	0	3.72E-02
MSTRG.3799.2	MSTRG.3799.2	52.5	0	1.99E-02
MSTRG.3814.4	MSTRG.3814.4	1278.5	0	7.60E-06
MSTRG.3815.1	MSTRG.3815.1	1.5	30.5	4.64E-02
MSTRG.3885.1	MSTRG.3885.1	2.5	49.5	8.35E-03
MSTRG.3978.1	MSTRG.3978.1	504.5	20	1.86E-02
MSTRG.4018.2	MSTRG.4018.2	936.5	26	3.16E-03
MSTRG.4040.2	MSTRG.4040.2	596	0	1.78E-06
MSTRG.4147.1	MSTRG.4147.1	1	38	5.38E-02
MSTRG.4169.1	MSTRG.4169.1	4.5	49	2.65E-02
MSTRG.4170.1	MSTRG.4170.1	8.5	94	3.99E-02
MSTRG.4185.1	MSTRG.4185.1	3.5	56.5	3.76E-02
MSTRG.4199.1	MSTRG.4199.1	13	106	4.22E-02
MSTRG.4219.2	MSTRG.4219.2	344.5	0	8.02E-06
MSTRG.4229.2	MSTRG.4229.2	1004.5	0	3.70E-07
MSTRG.4229.3	MSTRG.4229.3	1141	0	9.20E-07
MSTRG.4313.1	MSTRG.4313.1	1.5	44.5	1.02E-02
MSTRG.4325.1	MSTRG.4325.1	62.5	0	6.50E-03
MSTRG.4459.3	MSTRG.4459.3	241.5	0	3.20E-05
MSTRG.4486.2	MSTRG.4486.2	44.5	0	5.25E-02
MSTRG.4528.3	MSTRG.4528.3	367.5	0	9.03E-05
MSTRG.4710.3	MSTRG.4710.3	184.5	0	1.42E-04
MSTRG.4751.1	MSTRG.4751.1	8.5	83	5.00E-02
MSTRG.4796.1	MSTRG.4796.1	143.5	2	3.89E-02
MSTRG.4838.2	MSTRG.4838.2	531.5	0	3.70E-06
MSTRG.4951.3	MSTRG.4951.3	644.5	0	1.13E-06
MSTRG.5026.1	MSTRG.5026.1	336	0	9.05E-06
MSTRG.5071.1	MSTRG.5071.1	2	48.5	7.60E-03
MSTRG.5073.2	MSTRG.5073.2	89	0	3.49E-03
MSTRG.5081.1	MSTRG.5081.1	1239	89	1.45E-03

MSTRG.5088.3	MSTRG.5088.3	1706.5	0	2.84E-06
MSTRG.5093.1	MSTRG.5093.1	51	0	1.27E-02
MSTRG.5114.1	MSTRG.5114.1	1737	0	4.26E-07
MSTRG.5129.1	MSTRG.5129.1	3.5	53.5	2.12E-02
MSTRG.514.1	MSTRG.514.1	3	42	1.58E-02
MSTRG.516.1	MSTRG.516.1	3	67	3.25E-03
MSTRG.5222.2	MSTRG.5222.2	0	122.5	5.59E-05
MSTRG.5238.2	MSTRG.5238.2	807	0	5.75E-07
MSTRG.5336.1	MSTRG.5336.1	2	27.5	3.94E-02
MSTRG.5377.10	MSTRG.5377.10	126.5	0	7.00E-04
MSTRG.5377.6	MSTRG.5377.6	173	0	3.20E-06
MSTRG.5377.7	MSTRG.5377.7	94.5	0	2.98E-03
MSTRG.5452.2	MSTRG.5452.2	128	0	1.14E-03
MSTRG.5496.2	MSTRG.5496.2	#N/A	#N/A	6.63E-06
MSTRG.5496.3	MSTRG.5496.3	434.5	0	2.86E-05
MSTRG.5527.1	MSTRG.5527.1	78	0	2.82E-03
MSTRG.5536.1	MSTRG.5536.1	33.5	0	4.98E-02
MSTRG.5575.1	MSTRG.5575.1	3065.5	0	4.73E-09
MSTRG.5719.4	MSTRG.5719.4	331.5	0	1.57E-06
MSTRG.5741.1	MSTRG.5741.1	125.5	827.5	2.94E-02
MSTRG.576.2	MSTRG.576.2	143	0	7.26E-04
MSTRG.5773.3	MSTRG.5773.3	149.5	0	1.68E-03
MSTRG.5776.1	MSTRG.5776.1	54.5	0	1.66E-02
MSTRG.5776.3	MSTRG.5776.3	63	0	6.31E-03
MSTRG.5870.3	MSTRG.5870.3	66	0	1.55E-02
MSTRG.5870.6	MSTRG.5870.6	383.5	0	7.75E-06
MSTRG.5924.2	MSTRG.5924.2	133	0	3.56E-04
MSTRG.5930.1	MSTRG.5930.1	719.5	0	3.88E-05
MSTRG.5966.1	MSTRG.5966.1	211	0	3.19E-06
MSTRG.5972.3	MSTRG.5972.3	1027.5	0	1.50E-04
MSTRG.606.1	MSTRG.606.1	43	0	2.65E-02
MSTRG.6092.4	MSTRG.6092.4	348	0	9.21E-05
MSTRG.6092.5	MSTRG.6092.5	239.5	0	2.19E-06
MSTRG.6137.1	MSTRG.6137.1	0	27	2.28E-02
MSTRG.6181.1	MSTRG.6181.1	2.5	37	2.38E-02
MSTRG.6291.1	MSTRG.6291.1	119	0	5.72E-04
MSTRG.6327.5	MSTRG.6327.5	137	0	6.67E-04
MSTRG.6353.1	MSTRG.6353.1	137.5	0	3.41E-04
MSTRG.6353.2	MSTRG.6353.2	92.5	8	3.72E-02

MSTRG.6423.1	MSTRG.6423.1	140	0	3.01E-04
MSTRG.6425.2	MSTRG.6425.2	700.5	0	6.84E-07
MSTRG.6464.1	MSTRG.6464.1	6	68	3.43E-02
MSTRG.6467.2	MSTRG.6467.2	1.5	29.5	3.95E-02
MSTRG.6469.1	MSTRG.6469.1	2.5	30.5	4.82E-02
MSTRG.6504.2	MSTRG.6504.2	3581	17	2.16E-02
MSTRG.6506.3	MSTRG.6506.3	210.5	0	2.36E-06
MSTRG.6540.3	MSTRG.6540.3	10	108.5	4.99E-03
MSTRG.6558.1	MSTRG.6558.1	2.5	36	3.16E-02
MSTRG.6579.2	MSTRG.6579.2	355.5	0	1.43E-06
MSTRG.6624.2	MSTRG.6624.2	648.5	0	8.90E-07
MSTRG.6630.2	MSTRG.6630.2	126	0	6.54E-04
MSTRG.6635.1	MSTRG.6635.1	62	0	6.49E-03
MSTRG.6698.1	MSTRG.6698.1	1	20	4.93E-02
MSTRG.679.1	MSTRG.679.1	1	20	4.92E-02
MSTRG.6875.1	MSTRG.6875.1	40	0	3.01E-02
MSTRG.6875.2	MSTRG.6875.2	33.5	0	5.12E-02
MSTRG.6995.1	MSTRG.6995.1	1	40	1.83E-02
MSTRG.7013.1	MSTRG.7013.1	806	0	6.39E-07
MSTRG.7013.2	MSTRG.7013.2	702	0	8.05E-07
MSTRG.7022.2	MSTRG.7022.2	684	0	2.00E-06
MSTRG.7022.4	MSTRG.7022.4	301.5	0	1.58E-06
MSTRG.7027.1	MSTRG.7027.1	0.5	31.5	4.09E-02
MSTRG.7135.1	MSTRG.7135.1	85.5	0	2.01E-03
MSTRG.7135.4	MSTRG.7135.4	325	0	9.74E-06
MSTRG.7138.1	MSTRG.7138.1	1115.5	0	1.49E-07
MSTRG.7194.1	MSTRG.7194.1	204.5	0	1.56E-04
MSTRG.7194.4	MSTRG.7194.4	262.5	0	3.20E-05
MSTRG.7196.1	MSTRG.7196.1	534	0	7.63E-06
MSTRG.7196.2	MSTRG.7196.2	676.5	0	7.95E-07
MSTRG.7196.4	MSTRG.7196.4	506.5	0	1.91E-06
MSTRG.7196.5	MSTRG.7196.5	437.5	0	1.43E-05
MSTRG.7207.1	MSTRG.7207.1	93.5	0	2.79E-03
MSTRG.7253.1	MSTRG.7253.1	452	0	4.79E-06
MSTRG.7312.2	MSTRG.7312.2	53	0	4.39E-02
MSTRG.7312.3	MSTRG.7312.3	102	0	2.93E-03
MSTRG.7312.5	MSTRG.7312.5	631.5	0	1.26E-05
MSTRG.733.2	MSTRG.733.2	92.5	0	2.12E-03
MSTRG.7351.3	MSTRG.7351.3	5724.5	20.5	5.14E-03

MSTRG.737.1	MSTRG.737.1	15	187	4.94E-02
MSTRG.7376.1	MSTRG.7376.1	73.5	0	8.26E-03
MSTRG.7390.1	MSTRG.7390.1	1	26	2.23E-02
MSTRG.741.1	MSTRG.741.1	1251	58.5	2.19E-02
MSTRG.7476.1	MSTRG.7476.1	0.5	42.5	4.98E-02
MSTRG.748.1	MSTRG.748.1	62	0	8.99E-03
MSTRG.7513.2	MSTRG.7513.2	455	0	1.10E-06
MSTRG.7528.1	MSTRG.7528.1	1142.5	0	6.67E-07
MSTRG.7528.3	MSTRG.7528.3	813	0	1.65E-06
MSTRG.78.2	MSTRG.78.2	963	0	1.01E-06
MSTRG.7807.2	MSTRG.7807.2	270	0	2.59E-05
MSTRG.7843.3	MSTRG.7843.3	1013.5	0	1.72E-06
MSTRG.7848.1	MSTRG.7848.1	836	50	2.09E-03
MSTRG.7912.1	MSTRG.7912.1	1682.5	0	6.53E-05
MSTRG.7939.1	MSTRG.7939.1	98	0	1.39E-03
MSTRG.7942.2	MSTRG.7942.2	62.5	0	6.93E-03
MSTRG.7992.1	MSTRG.7992.1	638.5	23.5	2.08E-03
MSTRG.8026.4	MSTRG.8026.4	57	0	9.36E-03
MSTRG.8114.1	MSTRG.8114.1	0.5	24	3.88E-02
MSTRG.8175.1	MSTRG.8175.1	1	34.5	3.87E-02
MSTRG.8197.2	MSTRG.8197.2	867.5	0	4.15E-07
MSTRG.8211.7	MSTRG.8211.7	102	0	2.21E-03
MSTRG.8223.1	MSTRG.8223.1	2	34.5	2.01E-02
MSTRG.829.1	MSTRG.829.1	1	29.5	5.03E-02
MSTRG.8295.1	MSTRG.8295.1	5.5	61.5	1.32E-02
MSTRG.83.1	MSTRG.83.1	0	24.5	2.76E-02
MSTRG.834.1	MSTRG.834.1	4	59	2.85E-02
MSTRG.8450.3	MSTRG.8450.3	206	0	6.13E-05
MSTRG.8510.2	MSTRG.8510.2	1140.5	6	5.75E-04
MSTRG.8510.5	MSTRG.8510.5	1224.5	0	1.06E-07
MSTRG.8540.3	MSTRG.8540.3	798	0	4.37E-07
MSTRG.8540.4	MSTRG.8540.4	113.5	0	8.57E-04
MSTRG.8553.1	MSTRG.8553.1	3	41.5	2.79E-02
MSTRG.859.2	MSTRG.859.2	0	45	4.55E-03
MSTRG.859.5	MSTRG.859.5	670	0	8.62E-06
MSTRG.860.2	MSTRG.860.2	231	0	5.91E-05
MSTRG.862.1	MSTRG.862.1	283	1210.5	1.79E-02
MSTRG.8625.4	MSTRG.8625.4	1168.5	0	1.29E-06
MSTRG.8629.2	MSTRG.8629.2	68.5	0	1.28E-02

MSTRG.8674.1	MSTRG.8674.1	780	0	1.91E-05
MSTRG.8674.2	MSTRG.8674.2	425.5	0	6.89E-05
MSTRG.8719.2	MSTRG.8719.2	92	0	1.85E-03
MSTRG.8798.2	MSTRG.8798.2	1074.5	0	1.82E-07
MSTRG.8841.3	MSTRG.8841.3	369.5	0	7.43E-06
MSTRG.8841.4	MSTRG.8841.4	332	0	1.02E-05
MSTRG.8890.2	MSTRG.8890.2	181	0	2.95E-04
MSTRG.8941.1	MSTRG.8941.1	0.5	27.5	2.69E-02
MSTRG.8959.3	MSTRG.8959.3	47	0	1.91E-02
MSTRG.9014.1	MSTRG.9014.1	1293.5	0	4.18E-05
MSTRG.9024.1	MSTRG.9024.1	154	0	3.27E-04
MSTRG.9089.1	MSTRG.9089.1	140	0	3.57E-04
MSTRG.9140.3	MSTRG.9140.3	920	0	3.20E-07
MSTRG.9168.2	MSTRG.9168.2	310	0	1.44E-05
MSTRG.9238.1	MSTRG.9238.1	0	22	5.44E-02
MSTRG.932.4	MSTRG.932.4	844	0	5.09E-07
MSTRG.932.6	MSTRG.932.6	377	0	1.07E-04
MSTRG.9334.2	MSTRG.9334.2	929	0	2.76E-06
MSTRG.9337.6	MSTRG.9337.6	193	0	2.96E-04
MSTRG.9343.5	MSTRG.9343.5	406.5	0	1.73E-05
MSTRG.9370.1	MSTRG.9370.1	0.5	47	6.61E-03
MSTRG.9379.1	MSTRG.9379.1	222	0	1.07E-04
MSTRG.9379.2	MSTRG.9379.2	25.5	440.5	5.64E-04
MSTRG.9466.2	MSTRG.9466.2	62.5	0	6.39E-03
MSTRG.9645.2	MSTRG.9645.2	156	0	4.05E-04
MSTRG.9661.1	MSTRG.9661.1	553	0	7.32E-06
MSTRG.9683.2	MSTRG.9683.2	52.5	0	1.38E-02
MSTRG.9732.3	MSTRG.9732.3	386	0	1.31E-06
MSTRG.9751.1	MSTRG.9751.1	5.5	779	7.80E-11
MSTRG.9831.1	MSTRG.9831.1	0.5	34.5	5.21E-02
MSTRG.9994.1	MSTRG.9994.1	1024.5	4	2.65E-03
MSTRG.12795.2	MT1A	407.5	22	5.62E-03
MSTRG.12794.2	MT1A	57.5	0	9.29E-03
MSTRG.12792.3	MT1A	46	0	1.83E-02
MT3_g12958.t1	MT3	390	21.5	6.60E-03
MSTRG.1522.2	MTA3	53	0	1.27E-02
MTA3_g1430.t1	MTA3_g1430.t1	171.5	0	1.19E-03
LYRIC_g8954.t1	MTDH	303.5	0	1.41E-05
MSTRG.12994.2	MTERF1	1169.5	70.5	1.89E-02

MSTRG.8009.2	MTFR1L	179.5	0	1.93E-04
MTFR2_g7285.t1	MTFR2	69.5	0	6.61E-03
MTDC_g1237.t1	MTHFD2	212	0	8.30E-05
MSTRG.3267.2	MTIF2	426.5	0	3.58E-06
MSTRG.1159.2	MTIF3	72.5	0	3.80E-03
MSTRG.21033.1	MTMR1	274.5	0	1.74E-06
MTMR3_g15469.t1	MTMR3	58	0	8.65E-03
MTMR6_g1104.t1	MTMR6	2249	13983.5	2.41E-02
MTNA_g21013.t1	MTNA_g21013.t1	1362	39	1.65E-03
MSTRG.7826.4	MTOR	486	0	4.37E-06
MSTRG.7826.2	MTOR	1862	3	9.91E-05
MSTRG.14592.1	MTPAP	330	0	5.91E-05
CCNF_g15252.t1	MTRFR	66	0	6.32E-03
MSTRG.4667.1	MTRNR2L1	2478.5	0	1.20E-07
MUC17_g10251.t1	MUC12	180	0	1.15E-04
MSTRG.21587.7	MUC16	44	0	2.05E-02
MUS81_g14036.t1	MUS81	49	0	2.32E-02
MVP_g10422.t2	MVP	104	0	9.66E-04
MXI1_g18679.t1	MXI1	88	0	6.29E-03
MSTRG.13901.1	MYADM	268	0	6.09E-04
MYB_g7290.t1	MYB	1338.5	0	9.14E-08
MSTRG.8707.1	MYBL2	255	16.5	3.57E-02
MSTRG.9873.1	MYBPC1	96.5	1161.5	3.01E-03
MYPC_g13574.t1	MYBPC3	826	0	1.29E-06
MSTRG.9098.3	MYC	6.5	228.5	5.48E-03
MSTRG.943.2	MYCBP2	54.5	0	4.57E-02
MYCN_g1611.t2	MYCN	62.5	0	5.28E-02
MYCT1_g16249.t1	MYCT1	658	0	5.05E-05
MYL9_g8615.t1	MYL9	84	0	2.14E-03
MSTRG.12730.2	MYLK3	279.5	0	9.61E-05
MSTRG.3404.3	MYNN	919	0	3.09E-07
MSTRG.4682.2	MYO15B	209	0	2.38E-06
MSTRG.4110.2	MYO18A	1402.5	81.5	9.23E-04
MYO1A_g4801.t1	MYO1A	53	0	4.11E-02
MSTRG.4065.2	MYO1C	1567.5	0	4.28E-07
MYO1D_g3974.t1	MYO1D	37.5	0	3.40E-02
MYO1F_g17505.t1	MYO1F	34	0	5.40E-02
MSTRG.18992.1	MYO7A	43	0	2.63E-02
MYO9A_g12622.t1	MYO9A	133.5	0	3.86E-04

MSTRG.5854.4	MYO9B	818	0	8.61E-07
MSTRG.5854.2	MYO9B	627	0	2.68E-06
MSTRG.5854.5	MYO9B	531	3	5.73E-03
MSTRG.18385.1	MYOZ1	45.5	0	2.13E-02
SYP2L_g19010.t1	MYOZ1	36.5	0	4.17E-02
MYPN_g18940.t2	MYPN	97.5	0	1.43E-03
MSTRG.13467.2	MYRF	96	0	1.09E-02
MSTRG.13742.2	MZF1	97	0	1.38E-03
NAA25_g15315.t1	NAA25	327	0	9.64E-06
MSTRG.9690.1	NAA30	879	0	7.28E-07
MSTRG.6297.2	NAA35	614.5	0	1.23E-06
MSTRG.2975.1	NAALADL2	6.5	43.5	4.60E-02
NAB2_g4798.t1	NAB2	520	0	1.72E-05
MSTRG.4977.4	NABP2	103.5	0	9.47E-04
MSTRG.4977.3	NABP2	54	0	1.17E-02
NACA_g4811.t1	NACA	414.5	0	8.27E-06
NAGS_g4361.t1	NAGS	368.5	0	1.06E-05
NAMPT_g641.t1	NAMPT	50	0	1.41E-02
MSTRG.13693.2	NAP1L4	734	0	6.26E-07
NP1L5_g20629.t1	NAP1L5	88.5	0	2.97E-03
NP1L5_g22028.t1	NAP1L5	51.5	0	3.01E-02
MSTRG.574.1	NAPEPLD	9.5	75	5.06E-02
MSTRG.18975.2	NARS2	196.5	0	9.15E-05
NAT9_g4515.t1	NAT9	1166	0	3.66E-07
NAV3_g9701.t1	NAV3_g9701.t1	125	0	1.69E-02
NNRE_g6677.t1	NAXE	410.5	0	1.49E-05
NBL1_g7835.t1	NBL1_g7835.t1	326	0	1.05E-05
MSTRG.4496.1	NBR1	0	715	5.81E-07
NCAM1_g19480.t1	NCAM1	45.5	0	3.17E-02
MSTRG.5384.4	NCAPD2	327	0	6.83E-05
MSTRG.5384.1	NCAPD2	142.5	0	2.15E-03
MSTRG.20063.1	NCKAP1	1025.5	0	1.22E-06
MSTRG.13216.3	NCOA2	410.5	0	1.18E-06
MSTRG.13216.2	NCOA2	790.5	0	1.42E-06
MSTRG.8761.2	NCOA3	634.5	0	1.67E-06
MSTRG.19213.2	NCR3LG1	137	0	3.70E-04
NCS1_g11493.t1	NCS1	104	0	7.05E-03
NDK_g20282.t1	NDK_g20282.t1	48.5	0	2.45E-02
MSTRG.11385.5	NDOR1	132.5	0	2.81E-03

NDOR1_g11367.t1	NDOR1	226.5	0.5	1.06E-02
NDP_g21310.t2	NDP	85	0	2.05E-03
MSTRG.12063.5	NDRG2	677.5	0	7.46E-07
MSTRG.12063.6	NDRG2	195.5	0	2.12E-04
MSTRG.12063.4	NDRG2	103.5	0	2.57E-02
MSTRG.8665.1	NDRG3	245	0	3.74E-05
NDUAA_g15946.t1	NDUFA10	459.5	0	2.50E-06
NDUAD_g5757.t1	NDUFA13	90	0	1.34E-02
MSTRG.17700.1	NDUFAF3	543.5	0	1.59E-06
MSTRG.486.2	NECAB1	403.5	0	4.01E-06
MSTRG.9850.2	NEDD1	234	0	5.68E-04
NED4L_g3034.t1	NEDD4L	72.5	0	1.37E-02
NEIL1_g12671.t1	NEIL1	397	0	3.19E-04
MSTRG.17781.1	NEK4	68	0	6.22E-03
MSTRG.15087.2	NEK7	282.5	0	6.55E-05
NELFA_g20201.t1	NELFA	27	240.5	7.61E-04
MSTRG.8823.1	NELFCD	436.5	0	3.12E-05
CFAB_g2472.t1	NELFE	34.5	0	5.48E-02
MSTRG.19943.2	NEPNP	244	0	3.04E-05
MSTRG.12733.1	NETO2	246.5	0	3.35E-05
NEUL2_g22102.t1	NEURL2	2574	8	4.21E-03
NEUL2_g8708.t1	NEURL2	2253.5	16.5	4.38E-02
MSTRG.12929.2	NFAT5	1723	0	6.26E-07
NF2IP_g10458.t1	NFATC2IP	94	0	1.38E-03
MSTRG.4375.7	NFE2L1	60	378.5	4.30E-03
NF2L1_g4169.t1	NFE2L1	34.5	0	5.43E-02
MSTRG.16964.4	NFIC	3180.5	0	9.12E-09
MSTRG.9885.3	NFYB	33.5	0	4.58E-02
MSTRG.8207.4	NFYC	381.5	0	5.09E-06
NGDN_g12096.t1	NGDN	119.5	0	5.83E-04
MSTRG.20455.4	NHS	0	339.5	1.04E-06
MSTRG.11843.1	NID2	112.5	721.5	2.52E-02
NIM1_g5632.t1	NIM1K	49	0	1.46E-02
MSTRG.11853.2	NIN	234.5	0	1.66E-04
MSTRG.11853.3	NIN	137	0	3.32E-04
NIP7_g13093.t1	NIP7	191	0	8.23E-05
NIPBL_g5590.t1	NIPBL	45.5	0	2.17E-02
THOC5_g15462.t2	NIPSNAP1	520.5	0	2.93E-06
MSTRG.11701.2	NIPSNAP3A	0	113.5	1.41E-03

MSTRG.7381.2	NKAIN2	279	0	2.26E-05
NKD1_g12917.t2	NKD1	33.5	0	4.59E-02
KBRS2_g4302.t1	NKIRAS2	46.5	0	1.75E-02
NLGN2_g3724.t1	NLGN2	104.5	0	9.78E-04
NLGN3_g21472.t1	NLGN3	42	0	2.59E-02
NDK3_g10751.t1	NME3	74	0	4.62E-03
MSTRG.10701.1	NMRAL1	45	0	4.63E-02
MSTRG.17933.2	NOL10	436.5	0	4.48E-04
NOL6_g5966.t1	NOL6	93	0	4.29E-03
MSTRG.5901.6	NOL8	295.5	0	1.05E-03
MSTRG.18077.2	NOLC1	2729	233.5	1.92E-02
PPRC1_g18729.t1	NOLC1	81	0	2.43E-03
NOMO1_g10559.t1	NOMO1	36.5	0	5.15E-02
MSTRG.11994.1	NOP9	53	0	3.86E-02
NOX1_g21569.t1	NOX1	903	50	5.20E-04
GNDS_g22373.t1	NOXA1	1722.5	0	4.45E-08
MSTRG.16809.3	NOXA1	188	0	1.01E-03
NPAS3_g12030.t1	NPAS3	33.5	0	4.60E-02
NPAT_g19520.t1	NPAT	74	0	9.81E-03
RMC1_g2846.t1	NPC1	6.5	124	1.08E-03
CTGE9_g22172.t1	NPR1	36.5	0	5.31E-02
CTGE9_g22175.t1	NPR1	0	25.5	5.47E-02
ANPRA_g6753.t1	NPR1	1610	0	1.23E-07
MSTRG.10850.3	NPRL3	97	0	1.34E-03
NPTN_g12637.t1	NPTN	5.5	89.5	1.62E-02
MSTRG.13954.3	NR1H3	402.5	0	4.13E-06
MSTRG.5774.1	NR2C2AP	78.5	0	3.00E-03
NR2E1_g7446.t1	NR2E1	32	0	5.47E-02
MSTRG.5060.2	NR4A1	1421.5	0.5	1.30E-06
MSTRG.11737.1	NR4A3	98	2595	1.97E-03
MSTRG.15079.2	NR5A2	977.5	0.5	2.91E-05
MSTRG.11587.3	NR6A1	44	0	2.08E-02
NRAP_g18660.t1	NRAP	42	0	2.55E-02
NRF1_g269.t1	NRF1	164.5	0	2.33E-04
MSTRG.228.2	NRF1	97.5	0	1.27E-03
MSTRG.228.3	NRF1	177	0	1.41E-03
NRG1_g11263.t1	NRG1	434	0	1.16E-06
MSTRG.1462.1	NRXN1	38.5	561	5.01E-03
MSTRG.11285.13	NSD2	224.5	0	4.43E-05

NSD3_g11287.t1	NSD2	112.5	0	7.06E-04
MSTRG.11285.7	NSD2	146.5	0	1.59E-03
NSE4A_g18603.t1	NSMCE4A	114	0	9.09E-04
MSTRG.4665.2	NT5C	1	31.5	1.08E-02
NT5D3_g17749.t1	NT5D3_g17749.t1	176	0	2.25E-03
MSTRG.11503.2	NTMT1	58	0	2.26E-02
MSTRG.10754.2	NTN3	508.5	0	1.75E-06
MSTRG.10754.1	NTN3	320.5	0	1.62E-05
MSTRG.18498.2	NTPCR	66.5	0	1.41E-02
MSTRG.14393.1	NUDT11	414.5	2	7.43E-05
MSTRG.14393.4	NUDT11	347	0	1.35E-03
TDR12_g15005.t1	NUDT19	0	439	7.51E-07
NUD4B_g9744.t1	NUDT4	212.5	0	8.13E-05
NUFP2_g3914.t1	NUFIP2	223	0	4.69E-05
MSTRG.19068.6	NUMA1	56.5	348	5.52E-03
MSTRG.3614.1	NUMB	241.5	0	1.24E-04
NU133_g19054.t1	NUP133	49	888	1.63E-03
NU153_g2162.t1	NUP153	15.5	307	2.27E-02
MSTRG.17276.3	NUP210	156	0	2.41E-04
MSTRG.17098.15	NUP210	5	185	1.74E-02
MSTRG.19706.1	NUP54	504	0	1.82E-06
MSTRG.19706.2	NUP54	45.5	260.5	1.66E-02
MSTRG.19072.4	NUP98	104	0	4.55E-03
MSTRG.19072.5	NUP98	92	0	5.18E-03
MSTRG.13510.3	NXF1	4666	1.5	4.09E-08
NXPE2_g16199.t1	NXPE2_g16199.t1	104	10.5	4.48E-02
NXPH1_g505.t1	NXPH1	39.5	0	2.87E-02
MSTRG.8420.2	NXT1	315	0	1.25E-05
MSTRG.10278.1	OBP2B	85	0	4.71E-03
P_g12723.t1	OCA2	508.5	0	7.07E-06
MSTRG.20952.2	OCRL	117.5	0	8.20E-04
DCOR_g1635.t1	ODC1	694.5	0	7.14E-07
MSTRG.11530.2	ODF2	321	0	5.76E-05
MSTRG.2902.1	OGFRL1	3.5	43.5	2.77E-02
OGT1_g21478.t1	OGT	350.5	0	1.45E-06
OLFL1_g19988.t1	OLFML1	48	0	1.63E-02
OMD_g5892.t1	OMD	71	0	4.50E-03
MSTRG.3534.1	OPA1	1211	0	1.19E-07
MSTRG.20692.2	OPHN1	83.5	0	2.30E-03

OR2B8_g2301.t1	OR2B8P	63.5	0	7.82E-03
O51I1_g19871.t1	OR51I1	52.5	0	3.08E-02
O51V1_g19853.t1	OR51V1	289.5	0	4.72E-05
O51V1_g19860.t1	OR51V1	771	0	2.35E-04
OR6C4_g4861.t1	OR6C4	72.5	0	3.96E-03
CRCM1_g15283.t1	ORAI1	32.5	0	5.45E-02
MSTRG.7561.2	ORC3	580.5	0	1.17E-06
MSTRG.20237.2	ORC4	137.5	0	3.67E-04
OSGP2_g20818.t1	ORMDL1	156	0	7.50E-04
MSTRG.9772.3	OSBPL8	2516.5	0	7.82E-09
MSTRG.9772.2	OSBPL8	483.5	0	6.22E-06
MSTRG.12070.3	OSGEP	59.5	0	1.54E-02
OSTM1_g7447.t1	OSTM1	120	0.5	2.07E-03
OTUD1_g15162.t1	OTUD1	225.5	0	3.82E-04
OTUD4_g1840.t1	OTUD4	182.5	0	2.25E-03
MSTRG.6857.2	OTUD7B	396.5	0	1.06E-05
MSTRG.16140.1	OTUD7B	62	0	6.65E-03
PA2G3_g9644.t1	OTX2	102.5	0	1.62E-02
OXER1_g1429.t1	OXER1	352	0	3.67E-04
P2RX4_g15287.t1	P2RX4	50	0	1.42E-02
MSTRG.4032.1	P2RX5	30.5	147.5	2.46E-02
P3H1_g8322.t1	P3H1	57.5	0	9.11E-03
MSTRG.3526.1	P3H2	227	1066.5	3.85E-02
MSTRG.8192.3	PABPC4	743.5	0	9.20E-07
MSTRG.10056.1	PACSIN2	46.5	0	3.72E-02
MSTRG.13391.1	PACSIN3	292	0	6.62E-05
MSTRG.13391.2	PACSIN3	186.5	0	2.74E-04
MSTRG.13391.4	PACSIN3	72.5	0	2.87E-02
PAFA2_g7919.t1	PAFAH2	53	0	3.04E-02
PAIP2_g16872.t1	PAIP2	50	0	1.41E-02
PAK2_g3349.t1	PAK2	839	0	1.33E-06
PAL4H_g20115.t1	PAL4H_g20115.t1	236	0	3.19E-04
PALD_g18977.t1	PALD1	451.5	3	5.36E-04
AKAP2_g11756.t1	PALM2AKAP2	482	0	2.07E-06
PALMD_g7072.t1	PALMD	251	0	4.31E-05
MSTRG.10703.5	PAM16	357	0	7.05E-06
MSTRG.10703.4	PAM16	297.5	0	3.20E-05
MSTRG.4972.2	PAN2	428.5	0	5.20E-03
MSTRG.1156.2	PAN3	35	0	4.67E-02

MSTRG.8519.3	PANK2	196	3	7.82E-03
PPN_g9514.t1	PAPLN	677.5	61.5	2.16E-02
PAPOB_g10121.t1	PAPOLB	67.5	0	4.81E-03
MSTRG.11634.3	PAPPA	53.5	0	1.32E-02
PAPS1_g1712.t1	PAPSS1	38.5	251.5	4.46E-02
PAR2_g3140.t1	PAR2_g3140.t1	84	0	2.50E-03
MSTRG.14619.8	PARD3	2456	0	8.68E-09
MSTRG.14619.6	PARD3	132	1151.5	1.98E-03
MSTRG.7765.2	PARK7	275	0	2.62E-05
MSTRG.5402.2	PARP11	224	0	1.00E-04
MSTRG.5402.3	PARP11	173	0	1.24E-04
MSTRG.5660.3	PARP8	368	0	3.99E-06
MSTRG.15275.2	PASK	318.5	0	4.27E-03
MSTRG.905.1	PAX9	46.5	0	3.16E-02
MSTRG.32.3	PAXIP1	446	0	7.25E-05
MSTRG.11396.2	PAXX	34.5	0	4.23E-02
MSTRG.18315.3	PBLD	147	0	2.39E-04
MSTRG.18316.4	PBLD	118	0	5.70E-04
MSTRG.17773.4	PBRM1	336.5	0	4.13E-05
MSTRG.17773.6	PBRM1	145.5	0	7.80E-03
PBX1_g6534.t2	PBX1	99.5	0	4.16E-03
MSTRG.2635.5	PBX2	293	0	3.14E-06
MSTRG.2635.6	PBX2	267	0	1.24E-03
MSTRG.2635.3	PBX2	906	0	7.88E-03
MSTRG.13632.2	PC	816.5	7	3.42E-03
MSTRG.1927.3	PCDH15	2	436	4.11E-02
PCD17_g931.t1	PCDH17	126	0	2.22E-03
PCDBI_g16916.t1	PCDH18	703	0	1.08E-06
PCDGD_g16934.t1	PCDH18	45.5	0	2.28E-02
PCD19_g21562.t1	PCDH19	0	236.5	1.56E-06
PCDB1_g16911.t2	PCDHB1	82	0	1.53E-02
PCDBE_g16915.t2	PCDHB14	251.5	0	3.41E-03
MSTRG.16361.4	PCDHGB5	332	0	1.53E-06
MSTRG.16361.14	PCDHGC4	177	0	1.42E-04
PCDGM_g16937.t3	PCDHGC4	263.5	0	3.17E-05
PCF11_g19635.t2	PCF11	38	0	3.49E-02
MSTRG.4400.3	PCGF2	390	0	1.19E-05
MSTRG.4400.2	PCGF2	304	0	1.80E-05
MSTRG.18205.3	PCGF5	762.5	0	1.74E-06

PCGF6_g18708.t1	PCGF6	123.5	0	7.81E-04
KDM2B_g8792.t1	PCK1	206.5	0	1.44E-02
PCKGC_g8793.t2	PCK1	73.5	0	7.00E-03
MSTRG.12011.1	PCK2	2310.5	63.5	4.12E-03
MSTRG.11200.7	PCM1	739.5	0	7.49E-07
MSTRG.11200.5	PCM1	81	0	1.38E-02
MSTRG.11200.8	PCM1	127.5	954	4.72E-02
MSTRG.13297.3	PCMTD1	490	0	4.13E-06
MSTRG.8880.2	PCMTD2	227.5	0	2.36E-06
MSTRG.9556.4	PCNX1	1483	0	7.55E-08
PCX1_g9525.t1	PCNX1	75.5	0	3.61E-03
MSTRG.9667.3	PCNX4	1776.5	9	2.14E-02
MSTRG.12588.3	PCSK6	125	0	9.00E-04
PPCT_g4089.t1	PCTP	38	0	3.21E-02
MSTRG.1784.1	PCYT1B	8	55	4.03E-02
MSTRG.3400.1	PDCD10	323	0	2.31E-05
MSTRG.17564.2	PDCD6IP	0	175	2.26E-06
PDC6I_g18129.t1	PDCD6IP	48.5	0	3.89E-02
MSTRG.11603.1	PDCL	196	0	8.89E-05
PDE4C_g5796.t1	PDE4C_g5796.t1	73	1.5	4.67E-02
PDE5A_g1762.t1	PDE5A	53	0	1.35E-02
PDE6C_g18836.t2	PDE6C	1	72.5	4.35E-02
DCTN1_g4130.t1	PDK2	309.5	0	7.08E-05
PDK3_g21242.t1	PDK3	260.5	0	2.36E-05
PDLI2_g15014.t1	PDLI2_g15014.t1	45.5	0	1.88E-02
PDLI4_g16792.t1	PDLIM4	165.5	0	1.98E-04
PDLI5_g20647.t1	PDLIM5	70	0	6.03E-03
PDRG1_g8546.t1	PDRG1	47	0	1.72E-02
PDZD2_g5555.t1	PDZD2	22.5	128.5	1.87E-02
PZRN3_g17871.t2	PDZRN3	101.5	0	7.67E-03
PZRN4_g5153.t1	PDZRN4	353.5	6.5	2.34E-02
MSTRG.12488.2	PEAK1	2435.5	0	1.73E-08
PED1B_g10932.t1	PED1B_g10932.t1	76	0	8.92E-03
PDES1_g3896.t1	PEDS1	0	1183.5	4.18E-07
PEG10_g528.t1	PEG10	755.5	0	5.40E-07
MYO7A_g1329.t1	PELI1	50	0	1.39E-02
PELI2_g9647.t1	PELI2	2033	0	1.49E-07
PELI3_g14068.t1	PELI3	718	0	6.03E-07
MSTRG.5662.1	PELO	283.5	0	6.01E-05

PERC1_g10762.t1	PERC1_g10762.t1	223	0	8.12E-04
PT117_g8394.t1	PET117	2.5	87	2.27E-02
PEX1_g545.t1	PEX1	33	0	4.79E-02
PEX2_g13362.t1	PEX2	114.5	0	1.10E-02
MSTRG.5441.2	PEX26	293.5	0	1.44E-04
MSTRG.9873.5	PEX3	13603.5	1415.5	4.16E-02
MSTRG.5358.1	PEX5	278.5	0	5.39E-05
MSTRG.5358.3	PEX5	249.5	0	9.40E-05
PLF4_g20525.t1	PF4	0	316.5	1.74E-06
MSTRG.3922.1	PFAS	586	0	1.17E-06
PFD2_g6570.t1	PFDN2	377.5	0	5.23E-06
PFD5_g4971.t1	PFDN5	409	0	9.11E-06
PFD5_g4969.t1	PFDN5	62.5	0	3.49E-02
F261_g22390.t1	PFKFB1	17.5	404.5	1.74E-02
MSTRG.4967.2	PFKFB2	497	0	9.63E-05
PEPA5_g13879.t1	PGA5	47.5	0	1.67E-02
PGBD1_g578.t1	PGBD1_g578.t1	48.5	0	2.50E-02
PGK2_g2726.t2	PGK2	47.5	0	2.82E-02
PGP_g10721.t1	PGP	155.5	0	2.03E-04
PGPI_g5793.t1	PGPEP1	110.5	0	7.68E-04
MSTRG.4736.3	PGS1	179.5	0	1.27E-04
MSTRG.8060.5	PHACTR4	224.5	0	3.10E-02
PHB_g4141.t1	PHB1	82	0	2.61E-03
PHF1_g2524.t1	PHF1	128	0	7.67E-03
PHF13_g7703.t1	PHF13	76	1299	8.95E-03
PHF14_g503.t1	PHF14	78	518.5	4.50E-02
MSTRG.5916.1	PHF2	1070	27.5	1.03E-05
MSTRG.8651.2	PHF20	537	0	1.56E-06
MSTRG.9116.1	PHF20L1	1271	0	1.24E-07
MSTRG.9116.2	PHF20L1	39	821.5	6.11E-05
KPB2_g21214.t1	PHKA2	118	0	6.84E-04
MSTRG.20463.2	PHKA2	308.5	0	6.28E-03
MSTRG.13692.1	PHLDA2	83	0	9.64E-03
MSTRG.3683.6	PHLDB2	281	0	2.47E-04
MSTRG.20150.1	PHOSPHO2	135	0	4.06E-04
PHRF1_g7820.t1	PHRF1_g7820.t1	341.5	10	2.35E-03
MSTRG.16560.4	PHYKPL	1022.5	0	3.96E-07
MSTRG.19459.1	PI4K2B	38	0	3.49E-02
MSTRG.6813.1	PI4KB	257.5	5	7.88E-03

MSTRG.9962.1	PICK1	107.5	0	3.21E-03
PIGM_g6597.t1	PIGM_g6597.t1	247	0	1.61E-04
PIGN_g3050.t1	PIGN	76.5	0	1.30E-02
MSTRG.8030.1	PIGV	68	0	4.80E-02
MSTRG.7139.1	PIGW	1581.5	3	1.72E-04
PIGY_g20625.t1	PIGY	61.5	0	2.93E-02
PIGZ_g3343.t1	PIGZ	56.5	0	2.02E-02
PIHD1_g15948.t1	PIHD1_g15948.t1	165	0	3.16E-04
MSTRG.19212.2	PIK3C2A	789	0	6.92E-07
PK3CB_g18002.t1	PIK3CB	49.5	0	1.53E-02
MSTRG.5744.3	PIK3R1	416.5	0	1.04E-05
MSTRG.5822.2	PIK3R2	294	0	2.99E-05
MSTRG.10122.2	PIM3	50.5	0	1.91E-02
PP4P2_g8917.t2	PIP4P2	146	0	4.67E-04
MSTRG.16972.2	PIP5K1C	1079	0	2.02E-07
MSTRG.20439.3	PIR	412.5	0	3.97E-06
MSTRG.20439.1	PIR	438	44.5	1.30E-02
SFI1_g15505.t1	PISD	48.5	0	1.63E-02
MSTRG.13648.1	PITPNM1	528	0	4.20E-06
PKDRE_g10029.t1	PKDREJ	132	0	4.20E-04
MSTRG.10734.1	PKMYT1	97.5	0	1.25E-03
PMYT1_g10692.t1	PKMYT1	46	0	3.26E-02
MSTRG.10912.3	PKNOX1	93	0	2.67E-02
MSTRG.10912.1	PKNOX1	40	0	2.81E-02
MSTRG.20197.5	PKP4	388.5	0	5.76E-06
MSTRG.20197.4	PKP4	240.5	0	2.31E-04
MSI1H_g15371.t1	PLA2G1B	814	0	6.19E-07
PA24B_g12378.t1	PLA2G4B	112.5	0	6.90E-04
MSTRG.9968.2	PLA2G6	454	0	3.51E-06
PLAT2_g13951.t1	PLAAT2	34	0	5.24E-02
MSTRG.11317.1	PLAT	237	0	6.67E-05
PLCB_g7522.t1	PLCB_g7522.t1	39.5	0	2.86E-02
MSTRG.13539.4	PLCB3	469	0	2.84E-06
MSTRG.13539.3	PLCB3	441.5	0	3.11E-06
MSTRG.18962.1	PLCD1	3.5	56	5.22E-03
PLCE1_g18832.t1	PLCE1	122	0	8.60E-04
MSTRG.3425.5	PLD1	713.5	0	5.43E-06
MSTRG.3425.2	PLD1	335.5	0	1.17E-05
MSTRG.3425.6	PLD1	353	0	8.21E-04

PAR10_g22017.t1	PLEC	33.5	0	4.60E-02
MSTRG.9179.4	PLEC	1564	0	6.45E-08
MSTRG.9179.3	PLEC	0	1887.5	3.51E-07
MSTRG.9179.5	PLEC	1152	0	1.83E-06
MSTRG.9179.1	PLEC	2159.5	200.5	2.69E-02
PKHA3_g20857.t1	PLEKHA3	37	0	5.23E-02
MSTRG.19042.2	PLEKHB1	215	0	5.09E-05
MSTRG.20373.3	PLEKHB2	3410	0	3.42E-09
PKHF1_g15022.t1	PLEKHF1	152	0	2.26E-04
MSTRG.8934.2	PLEKHF2	130	0	4.63E-04
PKHG7_g9742.t1	PLEKHG7	47.5	0	1.61E-02
PKHN1_g7599.t1	PLEKHN1	75	1.5	3.73E-03
MSTRG.6121.1	PLGRKT	108	0	2.40E-03
PLK1_g6440.t1	PLK1_g6440.t1	52.5	1104.5	3.05E-03
MSTRG.1935.3	PLK4	0	347	1.02E-06
MSTRG.7834.2	PLOD1	675	0	7.59E-07
MSTRG.11268.1	PLPBP	91.5	1	1.63E-02
MSTRG.11285.3	PLPP5	74.5	0	3.62E-03
PLS5_g17959.t1	PLSCR5	32.5	0	5.34E-02
MSTRG.21081.3	PLXNA3	337.5	0	8.32E-06
MSTRG.21081.4	PLXNA3	130	0	2.22E-03
MSTRG.10681.2	PMM2	328.5	0	1.70E-04
MSTRG.10681.1	PMM2	217	0	5.23E-04
MSTRG.20029.2	PMS1	218.5	0	5.12E-05
MSTRG.20029.1	PMS1	22	235.5	4.40E-04
ANX11_g14678.t1	PNMA1	106	0	3.72E-03
PNM8B_g14677.t1	PNMA8A	134.5	0	3.70E-04
PNPH_g12186.t1	PNP	148.5	0	2.36E-04
MSTRG.10069.1	PNPLA3	0	90.5	3.73E-04
MSTRG.11372.4	PNPLA7	1067.5	0	4.25E-07
MSTRG.11372.3	PNPLA7	753	0	6.65E-07
PLPL7_g11353.t1	PNPLA7	70.5	0	4.18E-03
PLPL8_g659.t1	PNPLA8	8	146.5	4.57E-04
PO2F2_g5905.t1	PO2F2_g5905.t1	45	0	4.92E-02
MSTRG.6409.1	POGK	1600	0	4.64E-08
MSTRG.3627.2	POGLUT1	1904	0	2.14E-07
MSTRG.6810.3	POGZ	814	0	5.12E-07
DPOLB_g11320.t1	POLB	102.5	0	1.73E-03
DPOD4_g14093.t1	POLD4	308.5	0	1.20E-05

MSTRG.10055.1	POLDIP3	73.5	0	2.20E-02
DPOE4_g22002.t1	POLE4	193.5	0	6.53E-04
RPC22_g1087.t1	POLR1D	65.5	0	5.48E-03
RPA34_g14711.t1	POLR1G	38	0	3.20E-02
RPAB2_g12652.t1	POLR2F	105.5	0	1.04E-03
RPB7_g13928.t1	POLR2G	130.5	0	5.30E-04
RPB9_g14975.t1	POLR2I	57	0	3.11E-02
MSTRG.2242.2	POLR3D	571	0	2.88E-06
RPC5_g10536.t1	POLR3E	7	53	2.33E-02
MSTRG.6877.2	POLR3GL	332.5	0	1.50E-06
MSTRG.10019.2	POLR3H	187.5	0	1.74E-04
PMGT1_g8254.t2	POMGNT1	41	0	3.04E-02
MSTRG.12494.2	POMK	127.5	0	1.33E-02
POP1_g8959.t1	POP1	23	1056.5	1.02E-02
MSTRG.10311.1	POP7	50.5	0	1.57E-02
MSTRG.10361.3	POR	280.5	0	1.82E-06
PORCN_g21338.t1	PORCN	165.5	2	2.74E-02
POTE1_g300.t1	POT1	0	51	4.80E-03
PO2F1_g6310.t1	POU2F1	15.5	126.5	2.99E-02
MSTRG.14432.3	POU2F3	593	0	9.86E-06
MSTRG.11922.1	POU3F3	491	0	2.11E-06
PPARA_g10027.t1	PPARA	26	294	7.57E-04
MSTRG.2694.2	PPARD	192	0	1.10E-04
MSTRG.2694.1	PPARD	176.5	0	1.55E-04
COAC_g12668.t2	PPCDC	390.5	0	1.31E-05
CL071_g5204.t1	PPFIBP1	58.5	0	1.37E-02
MSTRG.5217.5	PPFIBP1	405	0	4.83E-06
MSTRG.19141.2	PPFIBP2	487.5	0	2.10E-06
PPIA_g918.t1	PPIA_g918.t1	329.5	0	2.18E-05
PPIB_g12555.t1	PPIB	49.5	0	2.45E-02
MSTRG.20148.3	PPIG	90.5	0	2.08E-03
MSTRG.16085.2	PPIP5K2	834	0	4.44E-06
MSTRG.17762.2	PPM1M	220	0	5.34E-04
MSTRG.17762.1	PPM1M	130	0	1.52E-02
ASPP1_g9296.t1	PPP1R13B	90	0	1.72E-03
PR15A_g14606.t1	PPP1R15A	44.5	0	1.98E-02
MSTRG.9209.4	PPP1R16A	996	9	8.32E-06
MSTRG.9209.3	PPP1R16A	62	0	6.50E-03
IPP2_g3337.t1	PPP1R2	59	0	8.12E-03

PPR21_g1391.t1	PPP1R21	749	0	1.56E-06
MSTRG.14101.2	PPP1R37	1144	0	2.13E-06
PPR3D_g8823.t1	PPP1R3D	132.5	1235.5	2.83E-02
PED1A_g22195.t2	PPP1R3F	35	0	4.37E-02
PP1R7_g15925.t1	PPP1R7	33.5	0	4.60E-02
2AAA_g14461.t1	PPP2R1A	33.5	295	1.08E-02
2ABA_g2010.t1	PPP2R2A	49	0	1.68E-02
MSTRG.17459.2	PPP2R3A	145.5	0	2.55E-04
MSTRG.9630.4	PPP2R5E	522	0	1.40E-07
CANB1_g1309.t1	PPP3R1	49	0	1.89E-02
MSTRG.2966.2	PPP4R1	1625	0	9.07E-08
MSTRG.2966.3	PPP4R1	0	170	2.38E-06
MSTRG.1441.2	PPP4R3B	0	1242	4.15E-07
MSTRG.9341.6	PPP4R4	80.5	0	1.34E-02
MSTRG.13875.2	PPP6R1	544	0	7.87E-05
MSTRG.10131.1	PPP6R2	171	0	1.40E-03
PRAF2_g21356.t1	PRAF2	69	950	7.67E-03
XIRP2_g17264.t1	PRB1	58	0	8.65E-03
MSTRG.18970.3	PRCP	1972.5	0.5	1.47E-07
PRD16_g7659.t1	PRDM16	31.5	0	5.49E-02
PRDM8_g20577.t1	PRDM8	244.5	0	3.02E-05
PPCE_g7461.t1	PREP	43.5	0	3.94E-02
MSTRG.1511.3	PREPL	282.5	0	1.69E-05
MSTRG.5155.2	PRICKLE1	248	0	2.10E-06
MSTRG.5155.3	PRICKLE1	656	0	3.30E-06
PRI1_g4810.t1	PRIM1	633.5	53	1.86E-02
PRIMA_g9375.t1	PRIMA1	37.5	0	4.43E-02
KAPCA_g17242.t1	PRKACA	25.5	244.5	2.22E-03
KAP0_g4476.t1	PRKAR1A	33	0	4.97E-02
KPCA_g4466.t1	PRKCA	344.5	1752.5	2.11E-02
MSTRG.11977.1	PRKD1	38.5	1187.5	4.46E-08
MSTRG.11977.4	PRKD1	1188	0	1.43E-07
KPCD3_g1461.t1	PRKD3	1736.5	0	1.91E-07
MSTRG.20083.1	PRKRA	615.5	0	1.33E-06
MSTRG.2395.1	PRL	36	0	3.80E-02
MSTRG.13970.1	PRMT1	1751.5	0	4.28E-07
ANM6_g7046.t1	PRMT6	50	0	1.42E-02
ANM9_g1851.t1	PRMT9	38	0	4.23E-02
PRIO2_g8457.t1	PRNP	53	0	2.02E-02

PROM1_g21452.t1	PROM1_g21452.t1	272.5	0	2.55E-05
MSTRG.14504.1	PRPF18	140.5	0	1.27E-03
MSTRG.14504.4	PRPF18	34.5	0	4.22E-02
MSTRG.11893.2	PRPF39	130.5	0	5.09E-03
MSTRG.20208.1	PRPF40A	3148	0	4.71E-09
MSTRG.2294.7	PRPF4B	215	0	5.16E-05
MSTRG.2294.5	PRPF4B	129	0	4.49E-04
MSTRG.2294.6	PRPF4B	210	0	7.45E-04
MSTRG.2294.2	PRPF4B	103.5	0	9.90E-04
MSTRG.4277.1	PRR11	185	0	1.81E-04
NAT8B_g1246.t1	PRR13	1890	0	3.20E-08
MSTRG.5036.2	PRR13	113	0	6.76E-04
PR23A_g17998.t1	PRR23A	50	0	2.27E-02
MSTRG.10072.2	PRR5	103.5	0	9.68E-04
MSTRG.6454.1	PRRC2C	4805	9	9.24E-09
MSTRG.10447.2	PRSS36	200.5	0	9.98E-05
MSTRG.6825.2	PRUNE1	221	0	4.76E-05
MSTRG.18596.3	PRXL2A	207.5	0	2.15E-04
MSTRG.18596.2	PRXL2A	110.5	0	7.45E-04
SERC_g6169.t1	PSAT1	1.5	44.5	2.72E-02
MSTRG.12349.1	PSIP1	0	21	4.59E-02
PSB5_g12112.t1	PSMB5	34	0	4.42E-02
TAP2_g2503.t2	PSMB8	64	0	1.05E-02
PSD11_g3972.t1	PSMD11	533.5	0	1.51E-06
PSDE_g20972.t1	PSMD14	56.5	0	8.99E-03
PSMD4_g6820.t1	PSMD4	139.5	0	5.20E-03
PSME2_g12081.t1	PSME2	46	0	1.78E-02
MSTRG.1460.2	PSME4	295	5657	7.26E-04
MSTRG.1460.1	PSME4	59	0	7.99E-03
PSMG2_g2830.t2	PSMG2_g2830.t2	1151.5	21831	2.65E-03
MSTRG.7085.4	PTBP2	187.5	0	1.63E-03
MSTRG.11665.4	PTBP3	140.5	1744	6.00E-04
PTBP3_g11741.t1	PTBP3	442	1	7.03E-03
MSTRG.11665.2	PTBP3	547.5	4.5	2.25E-02
PTCD1_g18628.t1	PTCD1_g18628.t1	3.5	151	1.27E-02
MSTRG.6313.1	PTCH2	76	530	2.71E-03
PE2R4_g5606.t1	PTGER4	974.5	0	4.41E-06
MSTRG.7182.1	PTGFR	15.5	229	1.43E-04
MSTRG.7181.1	PTGFR	23.5	186	2.21E-03

PTGR3_g3091.t1	PTGR3	156	0	1.42E-03
PTK6_g8869.t1	PTK6	290.5	0	3.18E-06
PTN13_g18167.t1	PTN13_g18167.t1	2.5	85.5	2.58E-04
PTN12_g617.t1	PTPN12	76	0	3.43E-03
MSTRG.14835.3	PTPRC	123.5	0	2.36E-03
MSTRG.8359.2	PTPRF	3436	0	1.61E-08
MSTRG.17839.2	PTPRG	932	0	6.34E-07
PTPRG_g7.t1	PTPRG_g7.t1	379	0	7.42E-06
PTPRH_g14399.t1	PTPRH	146	0	2.46E-04
PTPRJ_g13589.t1	PTPRJ_g13589.t1	0	125	1.53E-04
MSTRG.2951.2	PTPRM	6150	0	3.23E-10
MSTRG.2951.1	PTPRM	1742.5	6592	2.50E-02
MSTRG.9787.6	PTPRQ	646.5	0	7.93E-07
MSTRG.9787.5	PTPRQ	341	0	1.53E-05
MSTRG.9787.4	PTPRQ	343	0	4.89E-04
MSTRG.8082.5	PUM1	9205.5	0	7.36E-10
MSTRG.16897.1	PWWP3A	253	0	3.02E-05
MSTRG.1782.1	PXDN	2520.5	0	2.12E-07
MSTRG.4807.1	PYCR1	1808	259.5	4.77E-02
MSTRG.4807.4	PYCR2	415	0	7.68E-06
MSTRG.4807.3	PYCR2	154.5	1	2.03E-03
MSTRG.5263.4	PYROXD1	230	1	9.89E-05
MSTRG.17702.2	QARS1	645	0	8.02E-07
MSTRG.1912.3	QRFPR	216	0	2.70E-06
QRIC1_g18299.t1	QRICH1	6.5	249	3.49E-02
MSTRG.19294.2	QSER1	978.5	0	2.40E-07
R3HC1_g2029.t1	R3HCC1	72.5	0	1.17E-02
MSTRG.20271.1	R3HDM1	370.5	0	8.16E-06
MSTRG.20271.5	R3HDM1	195.5	0	8.07E-05
MSTRG.20271.4	R3HDM1	1112	3	6.61E-04
MSTRG.11031.3	RAB11FIP3	34	0	4.93E-02
RFIP4_g3959.t1	RAB11FIP4	73	1	3.21E-02
RFIP5_g1259.t1	RAB11FIP5	2.5	41.5	5.06E-02
RAB1A_g1323.t1	RAB1A	46	0	1.80E-02
RAB1B_g14056.t1	RAB1B	167.5	0	1.55E-03
RB22A_g8801.t1	RAB22A	168	0	2.40E-04
RAB35_g15366.t1	RAB35	25.5	717.5	2.00E-02
RAB41_g21460.t1	RAB41	1521	0	5.71E-05
RAB4B_g14819.t1	RAB4B	1220	0	1.09E-07

MSTRG.4990.2	RAB5B	1906	0	2.35E-08
RABE1_g3777.t1	RABEP1	740	18.5	5.12E-03
MSTRG.6480.5	RABGAP1L	289	0	2.47E-05
RBG10_g6374.t2	RABGAP1L	113	0	1.81E-03
MSTRG.6480.4	RABGAP1L	93.5	0	2.85E-03
MSTRG.6480.3	RABGAP1L	49	0	1.56E-02
MSTRG.7204.4	RABGGTB	1124.5	0	4.15E-07
MSTRG.5088.1	RACGAP1	678.5	0	2.35E-06
RAD21_g9032.t1	RAD21	89.5	1	5.38E-03
MSTRG.12150.2	RAD51	635	0	4.02E-06
RAD51_g12352.t1	RAD51	69.5	0	4.33E-03
RA54B_g8934.t2	RAD54B	1019	68.5	5.27E-02
RAEL1_g8789.t3	RAE1	167	0	2.15E-03
RAI1_g799.t1	RAI1_g799.t1	282.5	0	1.70E-05
MSTRG.20312.1	RALB	2169.5	0	2.17E-05
MSTRG.11933.3	RALGAPA1	467	0	4.38E-06
MSTRG.8429.4	RALGAPA2	537.5	0	5.55E-06
MSTRG.8689.2	RALGAPB	916	0	1.59E-06
MSTRG.21307.1	RALGDS	44.5	0	2.04E-02
MSTRG.8615.2	RALY	1297	114.5	2.85E-03
RAMP2_g4326.t1	RAMP2	918.5	0	6.61E-06
RANB9_g2144.t2	RANB9_g2144.t2	496	0	3.70E-06
MSTRG.15869.1	RANBP2	4936	48.5	1.22E-06
RAGP1_g9948.t1	RANGAP1	42.5	0	2.53E-02
MSTRG.3921.2	RANGRF	66	0	5.28E-03
RPGP1_g7863.t1	RAP1GAP	36.5	0	4.39E-02
MSTRG.19821.2	RAP1GDS1	220	2	1.09E-02
MSTRG.2084.5	RAPGEF2	1105	0	4.15E-07
MSTRG.2084.2	RAPGEF2	1158	14	1.99E-02
MSTRG.19915.3	RAPH1	638	0	6.31E-06
RAPH1_g20731.t1	RAPH1	54.5	0	2.00E-02
RARG_g4974.t1	RARG	37	0	3.62E-02
NGAP_g6387.t1	RASAL2	338	0	5.78E-04
MSTRG.12125.3	RASGRP1	650.5	0	2.81E-04
RSLAA_g15459.t1	RASL10A	458	26.5	8.23E-03
RASF7_g14192.t1	RASSF7	194.5	0	5.36E-04
MSTRG.13292.2	RB1CC1	3352.5	22.5	9.37E-03
ZN157_g6237.t1	RBAK	78.5	0	3.77E-03
MSTRG.18568.2	RBCK1	477.5	59	3.96E-02

MSTRG.3329.1	RBFA	59.5	0	7.48E-03
MSTRG.9935.3	RBFOX2	385	0	8.66E-06
MSTRG.21589.5	RBM10	900.5	0	3.51E-07
MSTRG.11038.2	RBM11	683	11.5	5.13E-04
RB12B_g8928.t1	RBM12B	415.5	0	3.78E-05
RB15B_g18361.t1	RBM15B	333	0	2.00E-05
MSTRG.12034.2	RBM23	572	0	2.03E-06
MSTRG.12034.4	RBM23	511	0	7.93E-06
MSTRG.12034.3	RBM23	357	1	1.70E-04
MSTRG.16611.3	RBM27	2384	0	1.16E-08
MSTRG.16611.4	RBM27	830.5	0	7.69E-07
RBM28_g288.t1	RBM28	179	0	2.59E-04
MSTRG.20587.2	RBM3	1205	0	5.43E-07
RBM33_g17.t1	RBM33	80.5	0	5.87E-03
MSTRG.22.2	RBM33	39.5	0	3.28E-02
MSTRG.20085.3	RBM45	0	193	1.98E-06
MSTRG.13629.2	RBM4B	156	0	2.68E-04
MSTRG.13629.5	RBM4B	139.5	0	3.01E-04
MSTRG.13629.6	RBM4B	79.5	0	6.17E-03
RBM4B_g14078.t1	RBM4B	35.5	0	5.16E-02
MSTRG.17724.3	RBM5	1395	0	8.34E-08
RBMS3_g18106.t1	RBMS3	49	0	1.66E-02
MSTRG.7808.1	RBP7	41.5	0	3.22E-02
MSTRG.7808.2	RBP7	32	0	5.27E-02
RBSK_g1178.t1	RBSK_g1178.t1	1036.5	16	1.06E-06
MSTRG.10008.2	RBX1	77.5	0	3.52E-03
RBX1_g9944.t1	RBX1	84	0.5	6.36E-03
MSTRG.6478.1	RC3H1	3605.5	0	3.19E-09
MSTRG.6478.3	RC3H1	13.5	258.5	4.02E-05
MSTRG.1046.3	RCBTB1	384.5	0	3.00E-05
RCC1_g7973.t1	RCC1	108.5	0	8.21E-04
TB182_g10198.t1	RCC1L	52	0	1.53E-02
MSTRG.13630.3	RCE1	144	0	4.44E-04
MSTRG.13630.5	RCE1	3	141.5	5.17E-02
RCN3_g14570.t1	RCN3	0	114	4.26E-04
MSTRG.9208.1	RECQL4	405	0.5	3.30E-05
RECQ5_g4545.t1	RECQL5	7	80	1.49E-02
RELD1_g1845.t2	REELD1	0	563.5	2.31E-07
REEP4_g2045.t1	REEP4	811.5	0	7.11E-07

RELB_g14726.t1	RELB	8	201.5	8.69E-06
MSTRG.19045.2	RELT	149.5	0	2.25E-04
REM1_g8535.t1	REM1	31.5	0	5.47E-02
MSTRG.57.3	REPIN1	857	0	9.38E-07
MSTRG.57.4	REPIN1	899	0	1.41E-06
MSTRG.57.2	REPIN1	176.5	0	1.27E-04
MSTRG.20451.3	REPS2	16.5	163	1.70E-02
MSTRG.5790.2	REX1BD	58.5	0	8.19E-03
MSTRG.6215.2	RFK	251	0	3.14E-05
MMTA2_g16506.t1	RFX1	58	0	9.10E-03
MSTRG.16630.1	RFX1	91	0	1.77E-03
MSTRG.16630.3	RFX1	87.5	0	1.96E-03
MSTRG.12289.2	RFX7	206	0	2.75E-06
MSTRG.11109.1	RGL1	260	0	5.89E-05
RGL1_g6435.t1	RGL1	38.5	0	3.30E-02
MSTRG.2667.3	RGL3	226.5	0	1.50E-02
MSTRG.10843.2	RGS11	114.5	0	5.11E-03
RGS12_g20218.t1	RGS12	38.5	0	3.18E-02
RGS18_g15793.t2	RGS18	8214	15	4.58E-03
RGS19_g8891.t1	RGS19	9043.5	430	2.12E-03
RGS19_g8891.t2	RGS19	12064.5	1289.5	2.25E-02
RGS2_g20770.t1	RGS2_g20770.t1	10919.5	46	3.55E-02
RGS4_g6538.t1	RGS4	152.5	0	2.10E-04
RHBL3_g3969.t1	RHBDL3	913	0	4.39E-07
KMT2D_g5067.t1	RHEB	150.5	0	5.75E-03
RHEB_g38.t1	RHEB_g38.t1	61	0	4.59E-02
RHOG_g19737.t1	RHOG	611.5	0	9.57E-07
MSTRG.4163.4	RHOT1	270	0	1.89E-06
MSTRG.4163.2	RHOT1	543.5	0	5.91E-06
MSTRG.4163.1	RHOT1	462	0	2.47E-05
MSTRG.4163.3	RHOT1	798.5	102.5	3.88E-02
MSTRG.20644.1	RIBC1	1491.5	15	2.12E-04
MSTRG.6119.2	RIC1	333	0	3.23E-04
MSTRG.19148.2	RIC3	39	0	3.13E-02
MSTRG.9914.2	RIC8B	230.5	0	3.24E-04
MSTRG.20222.2	RIF1	1486	0	5.30E-08
MSTRG.20222.6	RIF1	1398.5	0	5.65E-05
RIAD1_g6810.t1	RIIAD1	63.5	0	6.92E-03
RIMKA_g8328.t1	RIMKLA	572	0	8.96E-06

MSTRG.5350.4	RIMKLB	611.5	0	9.59E-07
MSTRG.2915.4	RIMS1	1219	0	3.79E-07
RIN1_g14061.t1	RIN1	127.5	0	4.08E-03
MSTRG.8436.5	RIN2	229	0	5.91E-04
MSTRG.3758.2	RIOX2	105.5	0	2.91E-03
MSTRG.3758.4	RIOX2	37.5	0	3.43E-02
RIT1_g6698.t1	RIT1	2037	126.5	1.45E-02
RL36A_g11969.t1	RL36A_g11969.t1	96.5	1.5	2.25E-03
RL7A_g8718.t1	RL7A_g8718.t1	294	0.5	7.13E-04
MSTRG.8199.3	RLF	0	551.5	6.81E-07
MSTRG.8199.2	RLF	28.5	2461.5	9.10E-03
CL029_g9725.t1	RLIG1	33.5	0	4.89E-02
RNF12_g21494.t1	RLIM	150.5	0	8.58E-04
RM13_g9050.t1	RM13_g9050.t1	47	0	2.07E-02
MSTRG.13146.4	RMI1	78.5	0	2.75E-03
MSTRG.16557.1	RMND5B	1160	0	2.70E-07
RNAS4_g12177.t1	RNASE4	130.5	0	3.83E-04
MSTRG.1773.2	RNASEH1	110	0	8.30E-04
BAP18_g3749.t1	RNASEK	49	0	1.74E-02
RNK_g3750.t1	RNASEK	51	0	1.47E-02
RN5A_g6422.t1	RNASEL	372	0	1.19E-04
R113A_g21698.t2	RNF113A	0	38	1.71E-02
RN114_g8746.t1	RNF114	1999.5	0	7.62E-06
RN115_g6890.t1	RNF115	289.5	0	1.54E-05
RN121_g19729.t1	RNF121	55	0	1.25E-02
MSTRG.19069.2	RNF121	1857	298.5	4.70E-02
MSTRG.16585.2	RNF130	44	0	2.06E-02
MEP1B_g2922.t1	RNF138	99	0	1.14E-03
MSTRG.8058.2	RNF141	126	0	8.19E-04
R144B_g2168.t1	RNF144B	157.5	0	4.34E-04
RN166_g13257.t1	RNF166	788.5	0	5.87E-05
RN167_g3767.t1	RNF167	184	0	9.92E-05
MSTRG.5722.4	RNF180	49	0	1.66E-02
RN208_g11366.t1	RNF208	90.5	0	5.11E-03
MSTRG.4764.3	RNF213	2266	0	2.70E-08
MSTRG.18005.2	RNF215	36.5	0	3.62E-02
MSTRG.7661.4	RNF223	971	1.5	7.56E-05
RNF43_g4066.t1	RNF43	273.5	0	1.94E-05
MSTRG.16526.3	RNF44	241.5	1.5	3.43E-03

MSTRG.16526.7	RNF44	0.5	127	1.29E-02
MSTRG.17397.1	RNF7	169	0	1.40E-04
CMTR1_g2589.t1	RNF8	190	0	1.61E-03
MSTRG.4263.2	RNFT1	405	0	4.03E-06
MSTRG.13729.4	RNH1	43.5	0	3.15E-02
RNPC3_g7051.t1	RNPC3	58	1421	2.25E-06
AMPB_g15733.t1	RNPEP	1799.5	0	4.42E-08
MSTRG.15064.5	RNPEP	371	0	5.67E-06
MSTRG.15286.2	RNPEPL1	181.5	0	1.02E-04
RO60_g15787.t1	RO60	3070	49.5	7.99E-06
MSTRG.11069.1	ROBO1	121	0	3.47E-03
MSTRG.11063.5	ROBO2	34	0	5.09E-02
ROM1_g13914.t2	ROM1	135.5	0	3.41E-04
TRPV4_g14356.t1	RP2	84.5	0	2.27E-03
RPGR1_g12157.t1	RPGRIP1	36.5	0	3.60E-02
RL10_g18109.t1	RPL10	157	0	1.59E-03
RL10_g21903.t1	RPL10	1572.5	105	1.52E-02
RL10_g1605.t1	RPL10	962.5	50	1.68E-02
RL12_g11561.t1	RPL12	3708.5	223	6.27E-03
RL13_g13274.t2	RPL13	2985	117	1.39E-03
RL13_g13274.t1	RPL13	3551.5	256.5	1.81E-02
RL14_g18171.t1	RPL14	2376	151.5	1.95E-02
MSTRG.17525.1	RPL15	5903.5	0	3.23E-10
RL17_g15864.t1	RPL17	1673	82.5	8.08E-03
RL18A_g5809.t1	RPL18A	1014.5	72	1.57E-02
RL19_g7471.t1	RPL19	2923.5	223	2.78E-02
RL21_g1093.t1	RPL21	937	24.5	3.95E-03
RL21_g15268.t1	RPL21	1268	55.5	4.37E-03
RL21_g1199.t1	RPL21	1650	58	6.93E-03
RL23A_g3929.t1	RPL23A	3075.5	218.5	1.79E-02
RL23A_g908.t1	RPL23A	81.5	2.5	2.79E-02
RL24_g3510.t1	RPL24	224	0	2.40E-06
MSTRG.3723.1	RPL24	1122	55	2.35E-03
MSTRG.16506.1	RPL26L1	66.5	0	1.28E-02
RL27_g4340.t1	RPL27	11918	523	3.98E-02
RL27A_g18772.t1	RPL27A	4737	283.5	1.88E-02
RL28_g14389.t1	RPL28	4565	250.5	4.16E-02
RL29_g18375.t1	RPL29	4531.5	123.5	4.37E-03
RL31_g17903.t1	RPL31	3551	170.5	9.26E-03

RL34_g1719.t1	RPL34	2773	92.5	5.72E-03
RL35A_g3373.t1	RPL35A	1653.5	71	5.70E-03
RL36_g13141.t1	RPL36	157	0	9.72E-04
RL36A_g20920.t1	RPL36A	2727	134.5	1.61E-02
RL36A_g6002.t1	RPL36A	3557	183.5	1.78E-02
RL36A_g21579.t1	RPL36A	2201.5	123	2.00E-02
RL37P_g16132.t1	RPL37A	21449	1246.5	1.27E-02
RL37P_g20531.t1	RPL37A	3044.5	188	2.49E-02
RL3L_g10740.t1	RPL3L	2973	258	3.46E-02
RL4_g12590.t1	RPL4	1437	53	7.37E-03
RL4_g16694.t1	RPL4	1253.5	98	3.06E-02
MSTRG.14724.3	RPL6	9528	0	4.03E-11
RL6_g15319.t1	RPL6	889	86.5	4.93E-02
RL7A_g1136.t1	RPL7A	133	3	1.73E-02
RLA1_g12612.t1	RPLP1	53.5	0	4.68E-02
MSTRG.8673.1	RPN2	2285.5	0	3.74E-07
RPP38_g15123.t1	RPP38	1464.5	8325	2.03E-02
RPRD2_g6845.t1	RPRD2	72	0	4.40E-03
RS15_g12488.t1	RPS15	33.5	0	4.59E-02
RS3_g19680.t1	RPS3	313.5	0	1.21E-05
RS5_g14268.t1	RPS5	55	0	3.04E-02
RS6_g6045.t1	RPS6	80.5	0	2.55E-03
RS6_g4191.t1	RPS6	48	0	2.35E-02
KS6A6_g21531.t1	RPS6KA6	61.5	0	7.33E-03
RPKL1_g9479.t1	RPS6KL1	41	0	2.63E-02
RPTOR_g4633.t1	RPTOR	123.5	0	2.57E-03
RUSD2_g12350.t1	RPUSD2	43	0	2.22E-02
MSTRG.18642.3	RPUSD4	120	0	5.89E-04
MSTRG.2306.2	RREB1	786	0	6.52E-07
MSTRG.2306.1	RREB1	276	1350.5	4.89E-02
RIR1_g19740.t1	RRM1	1549.5	76	1.88E-02
RIR2_g1638.t1	RRM2	1965	124.5	5.38E-02
RIR2B_g22288.t1	RRM2B	474.5	11	1.55E-02
MSTRG.10644.2	RRN3	38.5	0	4.46E-02
MSTRG.4341.2	RSAD1	113	0	1.01E-03
MSTRG.4341.3	RSAD1	57	0	9.36E-03
MSTRG.6949.3	RSBN1	492.5	0	5.04E-03
MSTRG.4129.3	RSKR	106	0	3.90E-03
RL1D1_g10593.t1	RSL1D1	1332	77	7.90E-03

RSH4A_g7386.t1	RSPH4A	931	0	2.98E-07
RSH6A_g14694.t1	RSPH6A	868.5	0	3.61E-07
RSPH9_g2677.t1	RSPH9	24	1168	4.63E-03
MSTRG.9019.2	RSPO2	200.5	0	5.91E-04
MSTRG.15909.3	RTBDN	83	0	2.95E-03
MSTRG.8864.3	RTEL1	979.5	0	6.10E-05
RTN2_g14708.t1	RTN2	152	0	3.63E-04
RTN3_g13954.t1	RTN3	40	0	2.78E-02
MSTRG.1447.1	RTN4	91.5	0	1.54E-03
BCL6_g3304.t1	RTP2	4	75	4.09E-02
MSTRG.3295.1	RTTN	229	0	4.17E-05
MSTRG.3295.3	RTTN	284	1	2.96E-04
MSTRG.1015.2	RUBCNL	90	0	2.01E-03
MSTRG.1015.3	RUBCNL	138.5	0	7.30E-03
MSTRG.19658.4	RUFY3	600	1	5.44E-04
MSTRG.19658.7	RUFY3	17	249.5	5.47E-02
MSTRG.17064.4	RUVBL1	4.5	114.5	5.24E-02
MSTRG.18544.1	RYR2	22.5	672.5	9.66E-03
MSTRG.6800.1	S100A10	74	0	3.69E-03
MSTRG.6799.1	S100A11	117	1.5	1.15E-02
MSTRG.6797.2	S100A13	121	0	5.78E-04
MSTRG.6794.1	S100A16	40.5	0	5.16E-02
S12A2_g14193.t1	S12A2_g14193.t1	59.5	0	1.06E-02
S26A9_g6279.t1	S26A9_g6279.t1	1169	0	1.32E-07
MSTRG.1177.2	SACS	110.5	0	3.24E-03
SALL1_g12921.t1	SALL1	75.5	0	3.40E-03
MSTRG.16627.2	SAMD1	331.5	0	1.54E-03
MSTRG.14671.1	SAPCD1	425.5	0	6.33E-06
MSTRG.16252.1	SAR1B	1228	62	3.15E-02
SAT1_g21233.t1	SAT1	2086.5	12534.5	4.99E-02
SATB2_g20778.t1	SATB2	87	0	3.22E-03
SBSPO_g22253.t1	SBSPO_g22253.t1	0	217	1.73E-06
SC5AC_g14259.t1	SC5AC_g14259.t1	341	0	8.07E-05
MSTRG.13973.3	SCAF1	149	0	3.44E-04
MSTRG.10979.1	SCAF4	41.5	0	4.27E-02
MSTRG.21637.1	SCAND3	3	37.5	3.57E-02
MSTRG.3942.1	SCARNA21	505	49	4.07E-02
SCLY_g15959.t1	SCLY	53.5	0	1.09E-02
MSTRG.8211.5	SCMH1	312	0	2.60E-05

MSTRG.8211.6	SCMH1	208.5	0	2.15E-03
MSTRG.8211.1	SCMH1	118	528	5.11E-02
MSTRG.3906.3	SCO1	70.5	0	7.82E-03
MSTRG.8265.2	SCP2	378.5	0	1.38E-06
RISC_g4083.t1	SCPEP1	1649.5	70.5	3.10E-02
MSTRG.6446.3	SCYL3	162	0	3.74E-03
PPR32_g13889.t2	SDHAF2	92	0	1.57E-03
SDSL_g15335.t1	SDSL	414	0	3.79E-04
MSTRG.4722.1	SEC14L1	89	0	3.37E-03
MSTRG.6901.2	SEC22B	658	0	7.35E-06
MSTRG.17955.2	SEC23IP	41	397	2.49E-02
MSTRG.16254.2	SEC24A	0	1150	4.23E-07
SC24C_g19011.t1	SEC24C	269	0	7.39E-04
MSTRG.18103.4	SEC31B	125	0	2.56E-02
MSTRG.5934.1	SECISBP2	1541.5	0	4.46E-08
EPT1_g1547.t1	SELENOI	106	0	2.37E-03
MSTRG.17765.1	SEMA3G	49	0	1.97E-02
MSTRG.1281.1	SEMA4F	56	0	2.80E-02
SEM5B_g3391.t2	SEMA5B	36.5	0	4.17E-02
MSTRG.3510.3	SENP2	397.5	0	1.29E-06
MSTRG.7628.3	SENP6	23.5	244.5	2.59E-02
MSTRG.3726.1	SENP7	59	0	7.72E-03
SENP7_g3514.t1	SENP7	327	2.5	2.71E-02
SENP8_g12623.t1	SENP8	874	25.5	1.16E-03
SEP14_g10364.t1	SEP14_g10364.t1	119	0	5.53E-04
MSTRG.14496.2	SEPHS1	1467.5	0	5.75E-08
SEPT4_g4062.t1	SEPTIN4	9.5	321.5	1.44E-06
MSTRG.14973.4	SEPTIN5	122.5	0	5.02E-04
SEPT6_g21696.t1	SEPTIN6	49.5	0	1.46E-02
SEPT7_g374.t1	SEPTIN7	196	0	7.74E-05
MSTRG.16223.1	SEPTIN8	124.5	0	6.24E-03
SERC1_g7362.t1	SERINC1	73	0	8.35E-03
SPB6_g2077.t1	SERPINB6	50.5	0	2.91E-02
MSTRG.1058.1	SERPINE3	279	0	2.87E-05
SESN3_g19572.t1	SESN3	1475	157.5	2.50E-02
MSTRG.20074.2	SESTD1	893.5	9	8.51E-03
SETBP_g2963.t1	SETBP1	267.5	0	6.89E-05
MSTRG.10459.6	SETD1A	627.5	0	8.05E-07
MSTRG.10459.7	SETD1A	502	0	9.95E-07

MSTRG.10459.5	SETD1A	672.5	0	5.40E-04
MSTRG.10459.3	SETD1A	0	29.5	2.41E-02
MSTRG.17663.3	SETD2	65	382.5	1.05E-02
MSTRG.17243.2	SETD5	366.5	0	7.47E-06
MSTRG.17243.4	SETD5	157	0	1.88E-04
SETD7_g1818.t1	SETD7	59.5	0	1.89E-02
MSTRG.5695.1	SETD9	130	0	4.26E-04
SETB1_g6836.t1	SETDB1	773	0	1.82E-06
MSTRG.1045.4	SETDB2	105	0	1.23E-03
MSTRG.1045.1	SETDB2	797	42.5	2.17E-03
MSTRG.4233.2	SFMBT2	6	272.5	5.46E-04
MSTRG.8139.3	SFPQ	5855	0	2.25E-07
SFRP4_g661.t1	SFRP4	76	534	2.87E-02
MSTRG.16513.2	SFXN1	624.5	0	1.69E-06
MSTRG.13224.1	SGK3	798	0	6.81E-07
MSTRG.13224.3	SGK3	81.5	465.5	3.61E-02
MSTRG.13224.2	SGK3	709	12.5	4.42E-02
MSTRG.19956.3	SGO2	128.5	0	1.00E-03
MSTRG.18358.3	SGPL1	26.5	152.5	3.05E-02
SPHM_g4627.t1	SGSH	91.5	0	2.21E-03
ISPD_g11338.t1	SH2D4A	16.5	105	2.16E-02
MSTRG.8238.2	SH2D5	406.5	0	1.19E-06
SH2D5_g7856.t1	SH2D5	154.5	0	2.03E-04
SH3L3_g7929.t1	SH3BGRL3	153.5	0	9.96E-04
3BP2_g20211.t1	SH3BP2	71.5	0	5.96E-03
SH3R1_g1939.t1	SH3RF1	302	0	1.31E-05
MSTRG.10029.1	SHISA8	336.5	0	7.34E-04
SHKB1_g14827.t1	SHKBP1	123	0	5.17E-04
SHPK_g3817.t1	SHPK	829.5	0	4.15E-07
MSTRG.15546.3	SHPRH	834.5	0	4.26E-07
SIG10_g14504.t1	SIGLEC10	319	0	1.04E-05
MSTRG.5959.2	SIGMAR1	121	0	6.25E-04
SIM1_g7473.t1	SIM1	45	0	2.08E-02
MSTRG.5859.2	SIN3B	857.5	0	3.62E-07
MSTRG.5859.3	SIN3B	754	0	6.65E-07
MSTRG.9553.5	SIPA1L1	818.5	0	6.77E-07
MSTRG.9553.2	SIPA1L1	755	0	7.10E-07
MSTRG.9553.4	SIPA1L1	89	0	5.84E-03
MSTRG.14254.4	SIPA1L3	811.5	0	8.48E-07

SI1L3_g14890.t1	SIPA1L3	695.5	0	1.13E-06
SHPS1_g8504.t1	SIRPA	97	0	2.32E-02
MSTRG.14228.2	SIRT2	154	0	2.10E-04
SKAP1_g4166.t2	SKAP1	9	787	4.09E-02
MSTRG.16055.2	SKIC3	1016	0	2.07E-06
SKP1_g16816.t1	SKP1	85.5	0	3.85E-03
MSTRG.15444.1	SLC11A1	67	0	1.05E-02
S12A3_g12962.t1	SLC12A3	392.5	0	4.47E-06
S12A5_g8714.t1	SLC12A5	119	0	1.03E-03
S12A6_g12303.t1	SLC12A6	8	158	5.30E-05
S12A8_g3377.t1	SLC12A8	328	4.5	7.18E-03
MOT1_g6969.t2	SLC16A1	89	0	3.49E-03
MOT4_g4681.t1	SLC16A3	53.5	0	1.91E-02
MSTRG.4818.2	SLC16A3	165	0	2.14E-02
MSTRG.4666.3	SLC16A5	177	0	1.50E-04
MSTRG.4666.6	SLC16A5	84.5	0	2.30E-03
MSTRG.4666.2	SLC16A5	345	2	3.09E-03
S17A5_g7585.t1	SLC17A5	42	0	2.79E-02
EAA4_g5882.t1	SLC1A6	41	0	2.57E-02
MSTRG.15734.1	SLC20A1	142.5	0	5.64E-03
S20A2_g11323.t1	SLC20A2	433.5	0	8.38E-04
S22AD_g18147.t1	SLC22A13	50	0	2.10E-02
DIC_g4655.t1	SLC25A10	972	0	7.51E-07
CE290_g3154.t1	SLC25A17	845	0	7.10E-07
MCAT_g18291.t1	SLC25A20	142	0	2.77E-04
MSTRG.18121.2	SLC25A28	403	0	7.67E-06
S2533_g7724.t1	SLC25A33	739	0	1.52E-06
S26A3_g653.t1	SLC26A3	1034	0	2.02E-07
S26A5_g628.t1	SLC26A5	124.5	0	1.81E-03
S26A8_g2564.t1	SLC26A8	83	0	8.68E-03
MSTRG.5832.4	SLC27A1	210	0	7.01E-05
MSTRG.5832.3	SLC27A1	1773	55	5.16E-02
MSTRG.18360.1	SLC29A3	315	0	1.13E-05
GTR10_g8724.t1	SLC2A10	320.5	0	1.29E-05
MSTRG.8758.2	SLC2A10	273	0	3.87E-05
GTR11_g15542.t1	SLC2A11	46	0	1.87E-02
GTR9_g20276.t3	SLC2A9	391	0	6.96E-06
COPT2_g11732.t1	SLC31A2	395.5	0	1.20E-05
S35D2_g7223.t1	SLC35D1	60	0	8.93E-03

MSTRG.6327.3	SLC35D2	71	0	4.11E-03
MSTRG.6327.1	SLC35D2	51.5	0	2.16E-02
S35D3_g7279.t1	SLC35D3	28	131	4.16E-02
MSTRG.18817.1	SLC35F2	113.5	0	1.64E-03
S38AA_g4641.t1	SLC38A10	42.5	0	2.91E-02
MSTRG.6785.3	SLC39A1	361.5	0	6.77E-06
MSTRG.13399.1	SLC39A13	208.5	0	2.39E-06
MSTRG.13399.2	SLC39A13	112.5	0	6.87E-04
POL_g17629.t1	SLC39A3	0	121	6.73E-05
MSTRG.13513.1	SLC3A2	0	832	7.99E-07
MSTRG.6392.3	SLC41A1	0	1187.5	4.27E-07
CTL2_g17342.t1	SLC44A2	134	0	3.45E-04
CTL3_g7087.t1	SLC44A3	146	0	3.09E-04
PCFT_g3943.t1	SLC46A1	93	0	1.57E-03
DIRC2_g3392.t2	SLC49A4	3	109.5	3.46E-04
MSTRG.15404.2	SLC4A3	989.5	8.5	4.34E-02
MSTRG.1305.4	SLC4A5	33.5	0	5.45E-02
S4A10_g18099.t1	SLC4A7	38	0	3.63E-02
MSTRG.9197.3	SLC52A2	853	0	6.67E-07
SC5AC_g20134.t1	SLC5A12	818.5	0	4.15E-07
RT06_g10970.t1	SLC5A3	42.5	0	4.32E-02
SC5A3_g10971.t1	SLC5A3	47	0	1.93E-02
MSTRG.1643.2	SLC5A6	42	0	2.55E-02
SC5A6_g1528.t1	SLC5A6	37.5	0	3.40E-02
MSTRG.7911.2	SLC66A1	272.5	0	2.60E-05
LAAT1_g7831.t1	SLC66A1	127.5	0	7.19E-03
MSTRG.1732.3	SLC66A3	185	0	2.88E-06
MSTRG.18349.2	SLC7A14	2037	0	2.46E-08
MSTRG.18349.1	SLC7A14	387.5	2208	3.53E-02
NAC1_g1438.t1	SLC8A1	187.5	4	2.51E-02
SL9A7_g21320.t1	SLC9A7	666	0	4.04E-06
MSTRG.19862.1	SLC9B1	109	0	8.31E-04
SO3A1_g12790.t1	SLCO3A1	241	0	3.99E-04
SLN14_g4000.t1	SLFN14	219	0	1.23E-03
SLIT3_g17079.t1	SLIT3	2057.5	0	1.91E-08
SLK_g18698.t1	SLK	212	0	9.21E-05
MSTRG.17817.6	SLMAP	194.5	0	5.23E-04
MSTRG.17817.5	SLMAP	254	0	7.95E-04
SLX1_g10444.t1	SLX1A	156.5	0	1.67E-03

SLX4_g10664.t2	SLX4	40.5	0	5.16E-02
MSTRG.12421.2	SMAD3	1144	0	1.61E-07
SMAD5_g16843.t1	SMAD5	46	375.5	2.16E-03
MSTRG.5067.2	SMAGP	105.5	0	6.59E-03
MSTRG.16732.4	SMARCA4	1340	0	1.02E-07
MSTRG.16732.3	SMARCA4	1034.5	0	1.88E-07
SMRCD_g20645.t1	SMARCAD1	881.5	0	7.20E-05
MSTRG.15455.2	SMARCAL1	264	0	7.41E-05
MSTRG.4979.1	SMARCC2	1639	0	6.37E-07
MSTRG.5087.4	SMARCD1	1170.5	0	1.78E-07
MSTRG.3352.3	SMC4	611.5	46.5	9.22E-03
MSTRG.6535.2	SMG7	472	0	1.20E-06
SIL2B_g21786.t1	SMIM10	428.5	0	3.75E-06
MSTRG.8132.2	SMIM12	141.5	0	3.94E-04
CF163_g7528.t2	SMIM8	89.5	0	1.75E-02
MSTRG.18033.3	SMNDC1	277	0	1.20E-04
ASM3A_g7360.t1	SMPDL3A	889.5	0	4.36E-07
ELK4_g6273.t1	SNAPC4	51	0	1.28E-02
SNPC4_g11415.t2	SNAPC4	1546	0	4.46E-08
MSTRG.13999.2	SNAPIN	32.5	0	4.97E-02
SNORC_g16002.t1	SNORC	58	0	2.15E-02
MSTRG.17618.2	SNRK	1	556	5.91E-07
MSTRG.17618.1	SNRK	686.5	0	8.07E-07
MSTRG.12592.1	SNRPA1	134	0	1.08E-03
RU2B_g8406.t1	SNRPB2	113.5	0	6.78E-04
SMD3_g15553.t1	SNRPD3	46	0	3.79E-02
SNTG1_g13481.t2	SNTG1	229.5	0	2.07E-03
MSTRG.9421.3	SNW1	114	0	1.37E-03
MSTRG.414.2	SNX13	517.5	7.5	2.79E-02
MSTRG.7575.2	SNX14	792	112	5.32E-02
MSTRG.16167.2	SNX24	295.5	0	3.02E-05
SNX24_g16753.t1	SNX24	42	0	2.38E-02
MSTRG.12484.1	SNX33	129	502.5	3.94E-02
SNX8_g10099.t1	SNX8	99	0	1.41E-03
MSTRG.13716.3	SOCS3	170	0	1.43E-04
SOCS6_g3078.t1	SOCS6	1.5	227	7.26E-03
MSTRG.19452.1	SOD3	264	0	2.36E-05
MSTRG.1544.3	SOS1	427	0	2.52E-05
SWAHA_g16804.t1	SOWAHA	91.5	0	1.75E-03

SWAHD_g22140.t1	SOWAHD	137	0	6.12E-03
SP100_g16033.t1	SP100	85	0	2.13E-03
SP14L_g16034.t1	SP140L	64.5	0	6.01E-03
SPA11_g9362.t4	SPA11_g9362.t4	2405.5	9	7.47E-03
SP17_g19280.t1	SPA17	861	0	7.07E-07
SACA9_g11464.t1	SPACA9	421.5	0	3.73E-06
MSTRG.10301.1	SPACDR	960	0	3.60E-07
SPAG1_g8971.t1	SPAG1	124.5	0	5.10E-04
MSTRG.4131.2	SPAG5	401	0	1.37E-06
SPA24_g16875.t1	SPATA24	103.5	0	9.88E-04
SPA2L_g13279.t1	SPATA2L	760	0	2.22E-06
MSTRG.6204.1	SPATA31D1	89.5	0	1.73E-03
S31D1_g6150.t1	SPATA31D1	71.5	0	7.63E-03
SPT33_g13277.t1	SPATA33	85.5	0	2.21E-03
MSTRG.14909.1	SPECC1L	1582.5	0	1.32E-07
CYTSA_g15557.t1	SPECC1L	814.5	0	4.94E-07
SPG21_g12567.t1	SPG21	70	0	4.84E-03
MSTRG.4707.1	SPHK1	53.5	0	3.57E-02
SPHK2_g14619.t1	SPHK2	1165.5	0	4.18E-07
MSTRG.14007.2	SPHK2	164	0	4.84E-04
SPIB_g14536.t1	SPIB	404	0	8.43E-04
SPIN2_g21404.t1	SPIN2B	6	78.5	3.90E-03
SPIN4_g21430.t2	SPIN4	96.5	1.5	5.31E-02
MSTRG.13522.1	SPINDOC	210.5	0	1.11E-02
SPIT2_g14887.t1	SPINT2	357.5	2.5	2.26E-03
SPNS2_g3803.t1	SPNS2	3812	356.5	3.60E-03
MSTRG.16266.2	SPOCK1	553.5	0	1.35E-06
NUCG_g11521.t1	SPOUT1	1395.5	0	2.12E-07
SPPL3_g15384.t1	SPPL3	163.5	0	1.97E-03
GSTK1_g145.t1	SPRING1	173.5	0	2.29E-04
MSTRG.5051.2	SPRYD3	1050.5	0	9.85E-07
MSTRG.10792.1	SPSB3	405.5	0	3.95E-06
MSTRG.11529.2	SPTAN1	3292	7	1.36E-03
MSTRG.8676.2	SRC	1457.5	0	3.33E-07
SRCN1_g4189.t1	SRCIN1	49	0	2.56E-02
MSTRG.5738.1	SREK1	858	0	5.24E-07
MSTRG.16157.1	SRFBP1	83	0	1.87E-02
MSTRG.6393.2	SRGAP2	396.5	0	1.28E-06
SRP68_g4562.t1	SRP68	311.5	0	9.66E-04

SRR1L_g15433.t1	SRRD	42.5	0	3.73E-02
MSTRG.7992.4	SRRM1	668.5	0	4.61E-06
MSTRG.7992.7	SRRM1	38	258	3.94E-03
MSTRG.7992.2	SRRM1	712	77.5	5.46E-02
SRRM4_g15359.t1	SRRM4	63.5	0	7.68E-03
MSTRG.10320.7	SRRT	196.5	0	2.61E-04
MSTRG.10320.6	SRRT	512.5	0	1.38E-02
MSTRG.7224.5	SRSF11	831	0	8.33E-07
MSTRG.7224.4	SRSF11	292	0	1.48E-05
SRSF2_g4584.t1	SRSF2	54.5	0	1.03E-02
SRSF3_g2574.t1	SRSF3	44	0	4.13E-02
LMBL1_g8657.t1	SRSF6	369	45	3.12E-02
SSBP_g187.t1	SSBP_g187.t1	12	783	6.52E-03
SSBP2_g16620.t1	SSBP2_g16620.t1	271.5	0	2.22E-05
SSH3_g14092.t1	SSH3	233	0	5.61E-04
SSPO_g87.t2	SSPOP	893.5	55	4.20E-02
SSR1_g12000.t1	SSR1_g12000.t1	195	0	1.44E-03
MSTRG.7172.3	SSX2IP	1222	0	6.81E-07
ST14_g19234.t1	ST14	94.5	0	5.70E-03
ST2A1_g14645.t1	ST2A1_g14645.t1	303.5	0	1.41E-05
SIA4A_g9108.t1	ST3GAL1	1075	0	1.71E-07
SIA4B_g13133.t1	ST3GAL2	65	0	5.88E-03
MSTRG.8357.2	ST3GAL3	871.5	0	8.82E-06
MSTRG.8357.1	ST3GAL3	2468	116	1.57E-02
MSTRG.18630.2	ST3GAL4	268.5	10	2.17E-04
MSTRG.1076.1	ST6GALNAC5	145	0	1.14E-03
MSTRG.280.2	ST7	418.5	0	3.58E-06
MSTRG.280.4	ST7	142.5	0	4.23E-04
MSTRG.17566.2	STAC	112.5	0	5.02E-03
MSTRG.20950.1	STAG2	549.5	0	1.81E-06
MSTRG.20950.3	STAG2	143	0	2.72E-04
MSTRG.20950.5	STAG2	1822.5	151	6.12E-03
STABP_g1244.t1	STAMBP	49.5	0	1.55E-02
STAR_g11282.t1	STAR	443	0	1.37E-05
STA10_g19716.t1	STARD10	10.5	99.5	1.22E-02
STR3N_g663.t1	STARD3NL	40.5	0	4.51E-02
STAR6_g3012.t1	STARD6	125.5	0	6.59E-04
MSTRG.19579.5	STARD9	392.5	0	5.41E-06
MSTRG.19579.1	STARD9	305.5	0	1.29E-05

MSTRG.19579.4	STARD9	265	0	3.18E-05
MSTRG.19579.6	STARD9	59	0	1.10E-02
MSTRG.20015.2	STAT1	914.5	0	3.62E-07
STAT1_g6965.t1	STAT1	73	0	1.22E-02
STAT3_g4312.t1	STAT3	222.5	0	4.45E-05
MSTRG.4464.1	STAT5A	796.5	0	5.75E-07
STAT6_g4797.t2	STAT6	2093	53.5	7.71E-04
MSTRG.8765.4	STAU1	2159.5	54	9.48E-03
MSTRG.16890.3	STK11	636.5	0	1.13E-06
MSTRG.15407.2	STK11IP	304	0	1.25E-05
MSTRG.15422.3	STK16	142.5	0	3.61E-04
MSTRG.835.2	STK24	884	0	3.62E-05
STK24_g850.t1	STK24	88	0	5.75E-03
MSTRG.15435.2	STK36	721.5	0	7.37E-07
MSTRG.10866.1	STMND1	211.5	0	8.48E-05
STN1_g18699.t1	STN1	39	0	3.00E-02
MSTRG.12456.4	STOML1	322	0	1.05E-05
MSTRG.12456.3	STOML1	20.5	344	1.72E-04
SHPS1_g20230.t1	STRA6	128	0	7.39E-04
MSTRG.4573.3	STRADA	73	0	3.61E-03
MSTRG.11599.2	STRBP	1875	0	4.15E-07
MSTRG.1576.1	STRN	36	0	3.75E-02
CHIP_g10795.t1	STUB1	367.5	0	6.05E-05
MSTRG.3910.2	STX8	49	0	1.59E-02
STXB5_g16200.t1	STXBP5	39	0	3.13E-02
MSTRG.5579.2	SUB1	694	0	7.46E-07
SUCB1_g985.t1	SUCLA2	50	0	1.40E-02
MSTRG.6461.1	SUCO	1685	0	9.48E-08
MSTRG.5780.4	SUGP2	317.5	0	1.15E-04
SGT1_g941.t1	SUGT1	59	0	4.06E-02
MSTRG.13217.3	SULF1	701.5	0	6.50E-07
MSTRG.13217.4	SULF1	781.5	39	2.03E-04
MSTRG.13217.2	SULF1	2289	14	2.84E-02
SULF2_g8729.t1	SULF2	62	0	6.73E-03
MSTRG.10507.3	SULT1C4	51.5	0	1.65E-02
MSTRG.10507.6	SULT1C4	195.5	4.5	3.03E-02
MSTRG.21298.2	SUMO1	10678.5	0	4.30E-11
MSTRG.17949.1	SUMO2	46	0	1.97E-02
MSTRG.4123.3	SUPT6H	1935	0	4.01E-07

MSTRG.4123.4	SUPT6H	953	0	5.78E-06
MSTRG.4123.2	SUPT6H	61.5	0	2.59E-02
ST65G_g1505.t1	SUPT7L	591.5	0	1.37E-06
MSTRG.1624.2	SUPT7L	87	0	1.87E-03
MSTRG.11449.2	SURF6	246.5	18.5	1.31E-02
MSTRG.11449.1	SURF6	42.5	0	2.53E-02
MSTRG.9568.2	SUSD6	841.5	0	4.08E-04
MSTRG.8368.1	SVBP	295	11	8.34E-03
SYDE2_g7147.t1	SYDE2	121.5	0	7.52E-04
MSTRG.14078.2	SYMPK	1	823.5	3.98E-08
SYNE1_g16248.t1	SYNE1	669	7	1.01E-02
MSTRG.9643.4	SYNE2	351	0	9.63E-06
SYGP1_g2526.t1	SYNGAP1	136.5	0	3.82E-04
MSTRG.2671.3	SYNGAP1	128.5	0	4.59E-04
MSTRG.1893.1	SYNPO2	447.5	54	2.65E-02
SYNP2_g1758.t1	SYNPO2	427	5	4.91E-02
MSTRG.19133.1	SYT9	448	0	4.20E-06
SYT9_g19986.t1	SYT9	37	0	3.86E-02
SYTL1_g7948.t2	SYTL1	50	0	1.71E-02
MSTRG.15514.1	TAB2	525.5	0	1.12E-04
MSTRG.20505.3	TAB3	1956.5	80	4.51E-03
TKN1_g515.t1	TAC1	48	0	5.08E-02
MSTRG.4232.2	TADA2A	164	0	3.61E-04
MSTRG.17248.2	TADA3	1011	0	2.20E-07
TAF1_g21477.t1	TAF1	613.5	0	1.08E-06
MSTRG.20719.1	TAF1	847.5	0	1.58E-06
MSTRG.19127.2	TAF10	847	37	7.24E-03
MSTRG.19127.1	TAF10	84.5	440	1.48E-02
TAF1B_g1642.t1	TAF1B	44	0	4.07E-02
MSTRG.13060.2	TAF1C	230.5	0	4.74E-05
MSTRG.18927.1	TAF1D	245.5	0	2.76E-04
MSTRG.18926.1	TAF1D	365	1	5.41E-04
MSTRG.18927.5	TAF1D	113.5	0	1.14E-03
MSTRG.8832.1	TAF4	118.5	0	5.89E-04
TAF5_g18707.t1	TAF5	179	0	1.17E-04
MSTRG.20196.2	TANC1	694	0	7.52E-07
MSTRG.20196.3	TANC1	1373	1.5	9.05E-06
TAOK1_g3913.t1	TAOK1	219.5	0	4.86E-05
TAPT1_g20311.t1	TAPT1	39	0	3.17E-02

TRBP2_g4962.t1	TARBP2	69.5	0	5.94E-03
MSTRG.7821.2	TARDBP	697	0	1.23E-05
MSTRG.7821.3	TARDBP	181	0	8.76E-04
SYTC_g5565.t1	TARS1	650.5	0	7.95E-07
MSTRG.14456.2	TASOR2	304.5	0	1.56E-06
MSTRG.17204.3	TATDN2	299.5	0	1.70E-05
MSTRG.17204.2	TATDN2	140	0	2.93E-04
MSTRG.10489.1	TBC1D10B	619.5	0	2.98E-05
TBC12_g18830.t1	TBC1D12	5	128	4.12E-02
TBC16_g4622.t1	TBC1D16	902.5	0	3.55E-07
TBC19_g20345.t1	TBC1D19	664	0	1.04E-06
TBD2B_g12706.t1	TBC1D2B	126.5	0	4.40E-04
TBC30_g4745.t1	TBC1D30	815.5	0	4.25E-07
MSTRG.2346.1	TBC1D7	117.5	0	7.16E-04
MSTRG.4900.1	TBK1	1254	0	2.22E-07
MSTRG.21114.2	TBL1X	1176.5	0	5.48E-07
MSTRG.21114.1	TBL1X	649.5	0	1.01E-03
TBL1X_g21940.t1	TBL1X	113	0	1.56E-03
TBL2_g10312.t1	TBL2	320	0	1.38E-05
TBPL1_g7300.t1	TBPL1	355	0	1.44E-06
MSTRG.7314.2	TBPL1	69	0	8.46E-03
TBPL2_g9650.t1	TBPL2	130.5	3	2.58E-02
TCEA3_g7883.t1	TCEA3	81.5	0	3.00E-03
TCEA3_g7883.t2	TCEA3	76.5	0	6.55E-03
MSTRG.20846.1	TCEAL1	116.5	0	9.12E-04
MSTRG.20845.1	TCEAL4	126.5	0	4.40E-04
TCAL4_g21600.t1	TCEAL4	32.5	1672.5	8.01E-03
MSTRG.16612.3	TCERG1	849.5	0	6.68E-07
MSTRG.16612.4	TCERG1	224	0	2.40E-06
MSTRG.16612.1	TCERG1	1188	5	5.33E-03
MSTRG.2588.1	TCF19	391	0	4.52E-06
MSTRG.10037.1	TCF20	1065.5	0	2.23E-07
MSTRG.16912.3	TCF3	440	0	2.18E-05
MSTRG.16237.1	TCF7	798.5	116.5	4.04E-02
MSTRG.18008.3	TCF7L2	549	2.5	9.32E-03
TCPQM_g33.t1	TCPQM_g33.t1	157	0.5	6.26E-04
TCTA_g18314.t1	TCTA	39.5	0	4.64E-02
TDR10_g6735.t1	TDRD10	184.5	0	1.01E-04
TDRD3_g927.t1	TDRD3	677.5	0	8.48E-07

TDRD5_g6397.t1	TDRD5	207	0	3.05E-03
MSTRG.13985.2	TEAD2	152.5	0	2.60E-04
MSTRG.2697.2	TEAD3	200.5	0	2.14E-04
MSTRG.19556.2	TEC	574	19	2.97E-02
TCPR1_g10162.t1	TECPR1	117	0	5.95E-04
MSTRG.9266.1	TECPR2	256	0	2.01E-06
TECRL_g20463.t1	TECRL	0	219	4.63E-06
MSTRG.18347.1	TEDC1	61	0	2.33E-02
MSTRG.10015.1	TEF	99	0	3.75E-03
MSTRG.10015.2	TEF	34	0	5.09E-02
TEN1_g21724.t1	TEN1_g21724.t1	33	0	5.23E-02
MSTRG.5482.2	TENT4A	1304.5	0	1.13E-07
PAPD5_g12912.t1	TENT4B	0	441	8.05E-07
TET5A_g7553.t1	TENT5A	141.5	0	2.03E-03
TEP1_g12193.t2	TEP1	35	0	4.17E-02
MSTRG.4775.5	TEPSIN	398	0	4.23E-06
TERF1_g13381.t1	TERF1	852.5	0	8.58E-05
MSTRG.282.2	TES	2343	216	5.49E-02
TESP1_g4935.t1	TESPA1	40.5	0	4.25E-02
MSTRG.18321.3	TET1	2059.5	0	1.67E-08
MSTRG.18321.4	TET1	2080.5	105	2.10E-03
TET3_g1241.t1	TET3	170.5	0	3.21E-03
TEX2_g4446.t1	TEX2	123.5	0	2.80E-03
MSTRG.1337.2	TEX261	106.5	0	1.13E-02
MSTRG.804.1	TEX30	65	0	1.06E-02
TEX44_g16019.t1	TEX44	312	0	6.67E-05
ECI2_g2093.t1	TEX56P	48	0	1.98E-02
TF_g7089.t1	TF	50.5	0	1.58E-02
TRFE_g18033.t1	TF	150	0	2.28E-04
TF3C1_g10754.t1	TF3C1_g10754.t1	167	0	2.65E-04
AP2A_g2120.t1	TFAP2A	67.5	0	9.96E-03
TGFB1_g14806.t1	TGFB1	37	0	3.50E-02
MSTRG.15832.3	TGFBRAP1	218	0	2.26E-06
MSTRG.3055.2	TGIF1	363.5	0	1.33E-06
THADA_g1426.t1	THADA	7.5	294	6.37E-07
THADA_g1426.t2	THADA	8	203	8.74E-04
THAP1_g11329.t1	THAP1	795	0	5.75E-07
P52K_g19671.t1	THAP12	66	0	1.77E-02
SCN1A_g15656.t1	THAP4	105.5	1.5	3.46E-02

MSTRG.304.4	THAP5	1541	0	5.79E-07
THNS1_g15168.t1	THNSL1	121	0	5.26E-04
THOC3_g17122.t1	THOC3	0.5	56.5	2.53E-02
MSTRG.14842.4	THOC5	1268	0	1.06E-06
MSTRG.14842.3	THOC5	590.5	0	1.07E-06
MSTRG.10731.1	THOC6	41.5	0	2.94E-02
THOC6_g10686.t1	THOC6	41	0	3.28E-02
THSD1_g1027.t1	THSD1	29.5	714.5	3.06E-02
MSTRG.436.1	THSD7A	2	29.5	2.50E-02
MSTRG.12013.4	THTPA	51.5	0	1.24E-02
THUM1_g20974.t1	THUM1_g20974.t1	708.5	0	1.00E-06
THUM1_g10514.t1	THUMPD1	63.5	0	5.97E-03
THUM3_g17852.t1	THUMPD3	359.5	0	4.05E-03
TIAM1_g11002.t1	TIAM1	81	0	5.62E-03
TIGD3_g14015.t1	TIGD3	158.5	0	4.81E-04
TI17B_g21347.t1	TIMM17B	80	0	2.73E-02
MSTRG.3299.3	TIMM21	750.5	0	5.80E-07
TIMP1_g21327.t1	TIMP1	80.5	0	1.06E-02
TINAG_g2751.t1	TINAG	34.5	0	4.33E-02
MSTRG.12410.2	TIPIN	309.5	0	2.27E-04
TIPIN_g12587.t1	TIPIN	51.5	0	1.44E-02
TITIN_g20266.t1	TITIN_g20266.t1	174	0	3.77E-04
TITIN_g4698.t1	TITIN_g4698.t1	447	0	2.75E-06
MSTRG.2786.3	TJAP1	461.5	0	2.38E-06
MSTRG.2786.2	TJAP1	177.5	0	1.51E-04
KITM_g13015.t1	TK2	84.5	0	2.17E-03
TKFC_g13885.t1	TKFC	207	0	4.77E-04
TKNK_g12535.t1	TKNK_g12535.t1	1032	0	3.38E-07
TLE1_g6177.t1	TLE1	109.5	0	9.32E-04
MSTRG.16957.2	TLE2	0	174.5	1.84E-06
TLE3_g12613.t1	TLE3	0	51.5	2.30E-03
TLE4_g6172.t1	TLE4	71	0	1.41E-02
MSTRG.16958.1	TLE5	0	1451	3.73E-07
MSTRG.20140.4	TLK1	439.5	2	7.26E-04
MSTRG.12362.4	TLN2	2318	17.5	1.08E-02
MSTRG.19496.5	TLR6	173.5	0	1.34E-04
TLR8_g21174.t1	TLR8	87	0	1.97E-03
TM139_g144.t1	TM139_g144.t1	70	0	6.22E-03
MSTRG.12590.1	TM2D3	91.5	0	1.72E-03

TM2D3_g12755.t1	TM2D3	93.5	0	1.21E-02
MSTRG.48.2	TM6SF1	487.5	0	1.98E-06
MSTRG.48.1	TM6SF1	270	4.5	2.36E-02
MSTRG.48.7	TM6SF1	8.5	209.5	4.93E-02
MSTRG.4727.6	TMC6	499.5	0	2.19E-05
MSTRG.17161.3	TMCC1	252	0	2.69E-05
MSTRG.754.3	TMCC3	3290.5	88	2.62E-04
TMCO1_g6525.t1	TMCO1	147	0	2.38E-04
TM109_g13867.t1	TMEM109	902.5	20	1.03E-03
TMM11_g3571.t1	TMEM11	84.5	0	2.37E-03
TM116_g15313.t1	TMEM116	202	0	2.51E-06
MSTRG.17295.2	TMEM117	878	3.5	5.19E-05
MSTRG.19388.2	TMEM128	307	0	1.30E-05
MSTRG.13454.1	TMEM138	119.5	0	7.45E-04
MSTRG.13454.2	TMEM138	20	105.5	3.44E-02
MSTRG.13454.3	TMEM138	37.5	0	4.58E-02
T161A_g5769.t1	TMEM161A	40.5	0	3.38E-02
MSTRG.15932.2	TMEM171	70	0	5.53E-03
MSTRG.12047.4	TMEM176A	0	74.5	6.08E-03
MSTRG.12047.2	TMEM176A	788	5119.5	5.45E-02
T178A_g1440.t1	TMEM178A	44	0	2.11E-02
MSTRG.15051.1	TMEM183A	797.5	0	5.34E-07
T184A_g10093.t2	TMEM184A	173.5	0	2.27E-03
T185A_g22085.t1	TMEM185A	81.5	0	1.99E-02
MSTRG.21066.1	TMEM187	210.5	0	5.58E-05
MSTRG.15411.1	TMEM198	9756.5	916	2.60E-03
MSTRG.4997.3	TMEM198	88	0	5.13E-03
TM201_g7725.t1	TMEM201	164.5	0	1.52E-04
MSTRG.3528.9	TMEM207	1805	0	4.45E-08
MSTRG.221.1	TMEM209	746	0	1.70E-05
ANC2_g11371.t2	TMEM210	186	0	7.25E-04
TM219_g10428.t1	TMEM219	76.5	0	4.12E-03
MSTRG.13510.2	TMEM223	351	1806	3.10E-02
TM232_g16705.t1	TMEM232	1015	0	5.33E-07
TM236_g15139.t1	TMEM236	264.5	0	2.25E-05
MSTRG.15605.3	TMEM242	181.5	0	1.01E-04
MSTRG.11683.2	TMEM245	72.5	0	3.70E-03
MSTRG.10417.2	TMEM248	482	0	8.96E-06
MSTRG.18283.2	TMEM26	243	0	6.49E-05

TMM26_g18922.t1	TMEM26	141.5	0	4.72E-04
MSTRG.13565.2	TMEM262	116	0	1.17E-03
MSTRG.13565.3	TMEM262	81.5	0	2.81E-03
TM266_g12689.t1	TMEM266	151.5	0	8.80E-04
MSTRG.5648.1	TMEM267	38.5	0	5.07E-02
MSTRG.14553.2	TMEM30CP	64.5	0	5.65E-03
MSTRG.15025.5	TMEM35B	363.5	0	8.62E-06
MSTRG.15025.4	TMEM35B	335.5	0	8.64E-06
MSTRG.15025.3	TMEM35B	89	0	1.71E-03
TM35B_g8053.t1	TMEM35B	63	0	6.24E-03
MSTRG.15664.1	TMEM37	79	0	5.33E-03
MSTRG.3509.2	TMEM41A	261	0	1.98E-06
MSTRG.17133.2	TMEM43	1415.5	0	6.28E-08
TMM51_g7776.t1	TMEM51	11734	0	4.03E-11
CSCL1_g15857.t1	TMEM63A	59.5	0	1.35E-02
ES8L2_g14199.t1	TMEM80	41.5	0	2.47E-02
MSTRG.3955.5	TMEM88	1030	0	5.97E-07
MSTRG.3955.2	TMEM88	579	3753	5.25E-03
MSTRG.17856.2	TMF1	705.5	0	1.76E-03
TMOD1_g11857.t1	TMOD1	2643.5	4.5	1.75E-03
MSTRG.9851.3	TMPO	0	263.5	1.39E-06
MET7A_g5035.t1	TMT1A	4832.5	141.5	2.91E-02
TMX1_g11949.t1	TMX1	1897.5	0	4.49E-06
MSTRG.3293.2	TMX3	873	0	4.15E-07
MSTRG.8492.1	TMX4	6480	944	3.41E-02
TENA_g11698.t1	TNC	211.5	0	9.15E-05
MSTRG.17000.1	TNFAIP8L1	62.5	0	6.73E-03
TNR1A_g5389.t1	TNFRSF1A	369.5	0	6.62E-06
MSTRG.3960.1	TNFSF12	42	0	3.37E-02
MSTRG.16409.2	TNIP1	429.5	0	3.16E-06
TNIP2_g20210.t1	TNIP2	536.5	0	1.85E-05
MSTRG.3970.2	TNK1	188	0	1.62E-04
MSTRG.3572.3	TNK2	100	0	1.20E-03
MSTRG.3572.5	TNK2	63	0	6.50E-03
MSTRG.3572.7	TNK2	73	0	7.84E-03
MSTRG.17768.1	TNNC1	96	0	1.32E-03
MSTRG.10205.6	TNRC18	1043.5	16	3.48E-02
MSTRG.10549.4	TNRC6A	444	0	1.13E-06
TENS1_g16128.t1	TNS1	100	0	3.23E-03

MSTRG.690.3	TNS3	535.5	0	9.06E-07
MSTRG.690.1	TNS3	393	0	1.67E-05
TOM1_g9849.t1	TOM1	1204	19	2.65E-03
TOM70_g3523.t1	TOMM70	460	1817.5	4.48E-02
MSTRG.17532.1	TOP2B	2516.5	0.5	1.73E-08
MSTRG.3838.1	TOP3A	1050	1.5	1.20E-05
MSTRG.14935.2	TOP3B	188.5	0	9.36E-05
TOPB1_g18034.t1	TOPBP1	305.5	0	1.56E-06
MSTRG.11498.3	TOR1A	0	255	1.45E-06
FAN_g13438.t1	TOX	69.5	0	6.70E-03
TOX4_g12153.t1	TOX4	1054.5	0	2.98E-07
MSTRG.12200.4	TP53BP1	181	0	5.15E-04
ASPP2_g15840.t1	TP53BP2	1653	0	4.09E-08
MSTRG.15168.2	TP53BP2	64.5	0	1.63E-02
MSTRG.8932.5	TP53INP1	857	0	4.28E-07
MSTRG.8932.2	TP53INP1	611	0	9.44E-05
TPC2_g14132.t1	TPCN2	470.5	0	9.89E-06
TPGS2_g22354.t1	TPGS2_g22354.t1	920	5.5	3.03E-03
TPK1_g102.t1	TPK1	707.5	68.5	6.28E-03
TPM3_g11350.t1	TPM3	264.5	0	7.57E-05
ZDHC1_g13046.t1	TPPP3	299	11.5	5.92E-04
MSTRG.6556.1	TPR	2122	0	4.09E-08
MSTRG.8586.1	TPX2	139.5	0	3.33E-03
MSTRG.11614.2	TRAF1	297.5	0	8.40E-04
TRAK1_g18180.t1	TRAK1	120	0	5.40E-04
MSTRG.3938.1	TRAPPC1	154.5	0	2.08E-04
MSTRG.13103.4	TRAPPC2L	68	0	5.63E-03
MSTRG.9127.2	TRAPPC9	703	0	1.50E-06
TRIB2_g1616.t1	TRIB2	256.5	0	2.60E-05
MSTRG.2539.3	TRIM27	63.5	0	6.66E-03
TRIM3_g19966.t1	TRIM3	20.5	629	1.97E-05
MSTRG.11631.1	TRIM32	390	0	5.10E-06
TRI33_g6953.t1	TRIM33	144	0	3.54E-04
MSTRG.16602.2	TRIM41	166	0	1.55E-04
MSTRG.19157.1	TRIM66	515	0	1.87E-06
MSTRG.19157.3	TRIM66	67	0	5.42E-02
MSTRG.19082.2	TRIM68	258.5	0	1.99E-06
TRI68_g19771.t1	TRIM68	100.5	0	1.77E-03
TRIM7_g17202.t1	TRIM7	256	0	2.28E-04

LIN41_g18120.t1	TRIM71	87.5	0	2.16E-03
MSTRG.5512.3	TRIO	412	0	1.23E-06
TRIO_g5531.t1	TRIO	222	2.5	3.38E-02
MSTRG.15352.3	TRIP12	468	0.5	1.20E-05
MSTRG.12380.3	TRIP4	96.5	0	6.38E-03
TRM13_g7066.t1	TRMT13	389	0	7.99E-06
MSTRG.10088.1	TRMT5	125	0	4.76E-04
TR61B_g1497.t2	TRMT61B	304.5	0	1.52E-05
MSTRG.10105.3	TRMU	44	0	2.11E-02
TSAP1_g7974.t1	TRNAU1AP	51.5	0	1.24E-02
TRNP1_g7944.t1	TRNP1	241	0	1.51E-04
TRPC5_g21662.t1	TRPC5	236.5	0	4.58E-05
MSTRG.10245.2	TRRAP	2816.5	0	9.78E-09
MSTRG.10245.7	TRRAP	0	220.5	1.69E-06
MSTRG.10245.3	TRRAP	719	0	1.34E-05
MSTRG.10245.5	TRRAP	1050	4381.5	4.35E-02
TRXR1_g9814.t1	TRUB2	79	0	7.36E-03
MSTRG.6539.2	TSEN15	79.5	0	2.62E-03
MSTRG.4676.1	TSEN54	80.5	0	4.27E-03
MSTRG.19226.7	TSG101	558	0	2.75E-06
TSLP_g16707.t1	TSLP	78.5	0	3.15E-03
MSTRG.9137.5	TSNARE1	78	0	2.90E-03
TSN3_g20565.t1	TSPAN3	113.5	0	6.64E-04
TSYL2_g22146.t1	TSPYL2	32.5	0	4.97E-02
THTR_g9869.t1	TST	109.5	0	5.41E-03
TT21A_g18157.t1	TTC21A	53.5	0	1.10E-02
MSTRG.14823.1	TTC28	1331	0	8.48E-07
MSTRG.6078.1	TTC39B	42	0	3.13E-02
BSND_g7607.t1	TTLL10	127.5	0	4.49E-04
TBA1C_g5062.t1	TUBA1C	379	0	5.14E-06
NSMA3_g15607.t3	TUBA3C	36.5	0	3.63E-02
TBA4A_g16088.t1	TUBA4A	387	3	1.57E-02
TBB5_g3691.t1	TUBB	102	0	2.42E-03
TBD_g4048.t1	TUBD1	77	0	4.16E-03
GCP6_g10051.t1	TUBGCP6	100	0	1.27E-03
MSTRG.15612.2	TULP4	206.5	0	8.96E-05
MSTRG.8270.3	TUT4	100	0.5	5.17E-03
MSTRG.8270.6	TUT4	36	0	4.42E-02
MSTRG.6301.3	TUT7	190.5	0	2.75E-06

MSTRG.6301.2	TUT7	437	0	2.36E-04
TWF1_g5139.t1	TWF1	51	0	4.09E-02
MSTRG.8097.2	TXLNA	1162.5	0	8.00E-07
MSTRG.8097.3	TXLNA	103	1297.5	1.51E-05
MSTRG.8097.1	TXLNA	2987.5	247	2.78E-03
MSTRG.8280.2	TXNDC12	619	0	1.69E-06
MSTRG.3325.2	TXNL4A	64.5	0	8.06E-03
TXN4A_g3115.t1	TXNL4A	11.5	70.5	4.70E-02
TRXR1_g9814.t2	TXNRD1	655	0	8.43E-07
IKBD_g14965.t2	TYROBP	63	0	1.12E-02
MSTRG.21524.1	UBA1	11.5	112.5	3.40E-02
MSTRG.6779.8	UBAP2L	703	0	7.46E-07
MSTRG.6779.7	UBAP2L	315	0	1.53E-06
UB2V1_g8748.t1	UBE2V1	106	0	1.15E-02
MSTRG.12547.2	UBE3A	0	478	1.35E-06
MSTRG.14800.4	UBE3B	427	24.5	1.48E-02
UBFD1_g10495.t1	UBFD1	0.5	28	3.76E-02
MSTRG.10559.1	UBFD1	1	31.5	5.34E-02
MSTRG.12462.2	UBL7	576.5	0	6.81E-06
UBP11_g3167.t2	UBP11_g3167.t2	1	34.5	2.72E-02
MSTRG.6730.2	UBQLN4	0	174	2.28E-06
MSTRG.20146.4	UBR3	885.5	0	4.10E-07
MSTRG.20146.2	UBR3	883	0	5.40E-07
MSTRG.8991.1	UBR5	2396.5	0	9.24E-09
MSTRG.8991.2	UBR5	2168.5	6	8.03E-05
MSTRG.7525.1	UFL1	0	47	9.00E-03
MSTRG.15014.1	ULK1	2045	0	4.04E-08
MSTRG.11824.7	UNC13B	0	234.5	1.57E-06
MSTRG.11824.3	UNC13B	2849	142	5.22E-04
MSTRG.11824.4	UNC13B	210.5	0	1.92E-02
MSTRG.4690.3	UNK	593	0	3.25E-05
MSTRG.740.1	UPF3A	233.5	0	1.44E-04
MSTRG.2674.3	UQCC2	192	0	6.90E-03
CSMT1_g10763.t1	UQCC4	13.5	156.5	6.34E-03
MSTRG.16227.2	UQCRQ	302.5	0	1.65E-05
URGCP_g753.t1	URGCP	1092.5	0	5.75E-07
MSTRG.6671.3	USF1	137.5	0	8.63E-04
MSTRG.3659.1	USF3	835	0	4.20E-07
MSTRG.3659.2	USF3	667.5	0	1.56E-06

USF3_g3453.t1	USF3	36.5	0	3.60E-02
USH1G_g4520.t1	USH1G	15	132.5	6.89E-03
UBP1_g7252.t1	USP1	2	42	1.63E-02
MSTRG.6661.4	USP21	396.5	0	1.28E-06
MSTRG.6944.2	USP25	101	0	3.73E-02
MSTRG.18760.5	USP28	430.5	0	7.00E-06
UBP3_g12548.t1	USP3	1.5	28	2.80E-02
UBP34_g1347.t1	USP34	0	44.5	2.29E-02
MSTRG.18979.2	USP35	1412	14.5	1.75E-02
PNISR_g7479.t1	USP45	207.5	0	5.90E-05
UBP48_g7864.t1	USP48	3	34	3.15E-02
UBP54_g19008.t1	USP54	2	40.5	1.30E-02
MSTRG.15935.1	UTP15	749	0	1.77E-06
UTP25_g6495.t1	UTP25	1	32	1.43E-02
SAS10_g20507.t1	UTP3	436.5	7024	9.24E-03
MSTRG.15551.2	UTRN	327	0	1.78E-06
VAPB_g8802.t1	VAPB	0	407.5	8.59E-07
MSTRG.2586.3	VARS2	814	66.5	1.38E-02
MSTRG.14089.3	VASP	195	0	9.44E-05
VASP_g14706.t1	VASP	0	21.5	5.31E-02
PFD3_g21917.t1	VBP1	116	4.5	1.82E-02
MSTRG.11865.2	VCPKMT	70	0	4.21E-03
MSTRG.8927.2	VIRMA	3016	0	4.73E-09
MSTRG.18696.2	VPS11	291	0	9.19E-04
MSTRG.7842.2	VPS13D	170	0	3.46E-04
MSTRG.7842.3	VPS13D	204	16	1.92E-02
MSTRG.8543.2	VPS16	490	9	3.39E-02
MSTRG.9203.6	VPS28	2058.5	0	4.17E-07
MSTRG.9203.3	VPS28	995.5	0	2.13E-05
VP37A_g11217.t1	VPS37A	355	0	8.53E-06
MSTRG.13449.1	VPS37C	634.5	0	8.73E-07
MSTRG.12918.2	VPS4A	81	0	3.85E-02
VPS51_g14005.t1	VPS51	94	1.5	8.90E-03
VPS52_g2514.t1	VPS52	35	0	4.37E-02
MSTRG.5133.6	VPS54	43.5	0	3.43E-02
VPS72_g6822.t1	VPS72	37.5	0	5.07E-02
MSTRG.13935.2	VSIG10L	191.5	0	3.82E-06
MSTRG.13935.3	VSIG10L	474.5	0	2.30E-03
MSTRG.13935.4	VSIG10L	96	0	2.17E-02

VTA1_g16224.t1	VTA1	42.5	0	2.33E-02
VWA1_g7626.t1	VWA1	9	208	5.39E-03
VMA5A_g19353.t1	VWA5A	543	0	1.95E-06
VWA7_g2462.t1	VWA7	684.5	0	1.06E-06
VWCE_g13883.t1	VWCE	56.5	0	2.99E-02
WASC3_g9796.t1	WASC3_g9796.t1	16	304	1.37E-02
WASH1_g5423.t1	WASHC1	79.5	1121	1.51E-02
WASL_g306.t1	WASL	1416.5	0	4.36E-07
WBP1_g1230.t1	WBP1	377.5	0	1.89E-03
WBP11_g5260.t1	WBP11	50.5	0	4.73E-02
WBP1L_g18715.t1	WBP1L	252.5	0	6.77E-05
WDFY1_g16060.t1	WDFY1	66.5	0	7.54E-03
MSTRG.19762.7	WDFY3	6941	174.5	1.04E-06
WDR1_g20277.t1	WDR1	87.5	0	2.04E-03
WDR1_g20277.t2	WDR1	43	0	4.97E-02
MSTRG.17954.1	WDR11	1466	34.5	1.36E-06
MSTRG.9255.2	WDR20	162.5	0	2.53E-04
MSTRG.6918.2	WDR3	257	0	2.53E-05
MSTRG.7018.2	WDR47	313	0	1.54E-06
WDR5_g11435.t1	WDR5	273.5	0	5.01E-05
WDR59_g13146.t1	WDR59	78.5	0	2.61E-02
MSTRG.17698.3	WDR6	247.5	0	2.78E-04
WDR6_g18294.t1	WDR6	105	0	1.66E-03
MSTRG.12212.2	WDR76	151	0	2.88E-04
MSTRG.9628.2	WDR89	126	0	1.82E-03
MSTRG.10826.2	WDR90	73	0	3.32E-02
WDR90_g16791.t1	WDR90_g16791.t1	44	0	2.81E-02
WDR93_g12815.t1	WDR93	54	0	2.65E-02
MSTRG.20192.3	WDSUB1	104	0	2.83E-02
WEE2_g188.t1	WEE2	311.5	0	4.80E-04
MSTRG.8739.1	WFDC3	122.5	0	7.57E-04
WFKN2_g4108.t1	WFIKKN2	68.5	0	5.17E-03
WIPI1_g4475.t1	WIPI1	130	0	1.77E-02
WNK1_g5432.t1	WNK1	115.5	0	8.63E-03
MSTRG.17796.1	WNT5A	5	98	2.49E-02
DYH2_g3705.t4	WRAP53	60	0	3.71E-02
MSTRG.11254.4	WRN	63.5	0	1.33E-02
MSTRG.19286.2	WT1	63	0	1.46E-02
MSTRG.15642.4	WTAP	506	0	2.83E-06

FL2D_g16282.t1	WTAP	877	74.5	3.30E-02
XPO4_g1129.t1	XPO4	63.5	0.5	2.19E-02
MSTRG.2254.1	XPO7	38.5	0	3.13E-02
MSTRG.17394.3	XRN1	2203.5	0	1.31E-08
MSTRG.21221.14	XRN2	283	0	7.43E-05
XYLB_g18149.t1	XYLB_g18149.t1	41	0	2.55E-02
MSTRG.5157.1	YAF2	388	2.5	2.01E-03
MSTRG.5157.4	YAF2	77	0	1.26E-02
YAP1_g19553.t1	YAP1	43	0	3.00E-02
MSTRG.3042.2	YES1	743.5	0	6.77E-07
MSTRG.16639.2	YJU2B	272	0	2.01E-05
MSTRG.8976.2	YWHAZ	3910	0	3.19E-09
MSTRG.8976.1	YWHAZ	690.5	6162	1.57E-03
MSTRG.20361.5	ZBED3	497.5	0	2.02E-06
ZBT21_g10906.t1	ZBTB21	62.5	0	9.43E-03
MSTRG.7463.6	ZBTB24	2123	31.5	8.86E-08
MSTRG.7463.1	ZBTB24	1870	0	6.19E-07
MSTRG.7463.4	ZBTB24	3252.5	0	6.68E-07
MSTRG.7463.8	ZBTB24	337	0	1.51E-06
MSTRG.7463.7	ZBTB24	995.5	0	7.43E-04
ZBT24_g7431.t1	ZBTB24	120.5	0	9.26E-04
ZBT25_g9584.t1	ZBTB25	136	0	5.44E-04
MSTRG.21260.3	ZBTB25	99.5	0	1.46E-03
MSTRG.4952.1	ZBTB39	285	0	1.69E-05
MSTRG.3962.2	ZBTB4	1610	0	5.21E-08
MSTRG.3962.1	ZBTB4	3	1434	3.44E-03
MSTRG.7849.1	ZBTB40	10.5	65	4.95E-02
ZBT44_g19233.t1	ZBTB44	115	0	7.27E-04
MSTRG.11598.1	ZBTB6	260	0	2.64E-05
ZC3HE_g9416.t1	ZC3H14	741.5	0	3.65E-05
MSTRG.14044.2	ZC3H4	1204.5	0	4.58E-07
MSTRG.14044.3	ZC3H4	62	0	1.65E-02
K1549_g210.t1	ZC3HAV1L	150	0	2.44E-04
MSTRG.13083.2	ZCCHC14	0	1645.5	3.51E-07
ITA9_g11873.t1	ZCCHC7	39	0	2.97E-02
MSTRG.11776.3	ZCCHC7	224.5	0	2.40E-06
MSTRG.11776.2	ZCCHC7	242.5	0	4.57E-05
KCRS_g16618.t3	ZCCHC9	39	0	3.03E-02
MSTRG.16003.1	ZCCHC9	37	0	4.05E-02

ZCPW2_g18104.t1	ZCWPW2	122	0	7.34E-03
MSTRG.11525.3	ZDHHC12	221	0	7.53E-05
ZDH14_g16268.t1	ZDHHC14	50.5	0	1.42E-02
MSTRG.9774.5	ZDHHC17	429.5	0	1.03E-05
MSTRG.1180.2	ZDHHC20	87.5	0	3.72E-03
MSTRG.13621.1	ZDHHC24	38	0	3.22E-02
MSTRG.13425.3	ZDHHC5	812.5	0	6.17E-07
ZDHC5_g13735.t1	ZDHHC5	60	0	1.10E-02
ZEB2_g21027.t1	ZEB2	65	0	8.76E-03
MSTRG.2719.2	ZFAND3	648	0	7.86E-07
ZFAN3_g2594.t1	ZFAND3	0	30	1.52E-02
ZFAN5_g6141.t1	ZFAND5	209.5	0	6.54E-05
ZFAN6_g12715.t2	ZFAND6	145.5	0	3.33E-04
ZFAT_g17914.t1	ZFAT_g17914.t1	1100.5	2.5	1.06E-05
ZFHX4_g9431.t2	ZFHX4_g9431.t2	65	0	8.15E-03
MSTRG.4000.1	ZFP3	275	0	3.07E-05
MSTRG.1523.6	ZFP36L2	41.5	0	4.97E-02
MSTRG.9148.3	ZFP41	303.5	0	1.57E-06
MSTRG.9148.2	ZFP41	649	0	2.64E-06
MSTRG.11191.2	ZFP42	118	0	2.61E-03
ZFP82_g14990.t1	ZFP82	5.5	149	3.84E-02
MSTRG.5577.2	ZFR	1815.5	0	4.09E-08
CYHR1_g9209.t1	ZFTRAF1	67.5	0	4.89E-03
MSTRG.20489.2	ZFX	1508	0	1.58E-06
ZFYV1_g9517.t1	ZFYVE1	407.5	0	9.48E-06
MSTRG.9284.1	ZFYVE21	160	0	4.26E-04
ZGPAT_g8877.t1	ZGPAT	1148.5	0	1.90E-07
MSTRG.10280.2	ZKSCAN1	887	0	3.62E-07
MSTRG.10280.3	ZKSCAN1	230.5	0	2.32E-06
MSTRG.10282.2	ZKSCAN1	210.5	0	9.20E-03
MSTRG.10261.2	ZKSCAN5	263	0	3.33E-05
MSTRG.3444.2	ZMAT3	164	0	1.65E-04
MSTRG.704.2	ZMIZ1	222	0	4.54E-05
ZMIZ1_g19040.t1	ZMIZ1	360.5	0	8.34E-06
MSTRG.704.4	ZMIZ2	656.5	0	1.51E-06
MSTRG.20710.2	ZMYM3	599	0	1.83E-06
DPH7_g11349.t1	ZMYND19	265.5	0	2.39E-05
ZN717_g10140.t1	ZN717_g10140.t1	272	0	2.79E-05
ZN717_g18488.t1	ZN717_g18488.t1	51.5	0	1.97E-02

MSTRG.4158.2	ZNF135	147.5	0	3.16E-04
MSTRG.4844.1	ZNF135	2	62.5	2.36E-02
ZN143_g20034.t1	ZNF143	76	0	1.14E-02
MSTRG.14359.2	ZNF146	210.5	0	2.36E-06
MSTRG.3585.3	ZNF148	748.5	0	5.60E-06
ZN169_g5909.t1	ZNF169	20	386	4.87E-02
MSTRG.12951.5	ZNF19	39.5	0	4.87E-02
ZNF35_g18210.t1	ZNF197	124	0	2.56E-03
ZNF2_g16391.t1	ZNF2	73	0	6.86E-03
ZN202_g19371.t2	ZNF202	1041	0	3.06E-07
MSTRG.18662.1	ZNF202	274	0	1.97E-05
MSTRG.18662.3	ZNF202	224.5	0	4.45E-05
ZN205_g10681.t1	ZNF205	140.5	0	4.43E-04
MSTRG.4166.3	ZNF207	2710	0	6.77E-09
MSTRG.4166.4	ZNF207	4068.5	0	3.04E-07
MSTRG.13797.2	ZNF211	425	0	4.99E-06
MSTRG.73.2	ZNF212	71	0	5.11E-03
MSTRG.12061.3	ZNF219	692.5	0	6.77E-07
MSTRG.12061.1	ZNF219	269	0	4.43E-04
ZNF24_g2313.t1	ZNF24	130.5	0	3.89E-04
ZN250_g9230.t1	ZNF250	48.5	0	1.63E-02
MSTRG.13791.3	ZNF256	1065.5	0	6.26E-07
MSTRG.13791.5	ZNF256	277.5	0	2.41E-05
ZN260_g14989.t1	ZNF260	68.5	0	7.63E-03
MSTRG.13831.2	ZNF264	945.5	97	2.63E-02
MSTRG.16771.1	ZNF266	47.5	0	2.23E-02
MSTRG.73.5	ZNF282	435	0	6.10E-04
MSTRG.7126.2	ZNF326	174	0	5.39E-04
MSTRG.16820.4	ZNF333	336.5	0	1.27E-05
MSTRG.8752.2	ZNF335	375	1	1.58E-04
MSTRG.9223.3	ZNF34	208	0	6.29E-05
MSTRG.16569.2	ZNF354A	212	0	6.17E-05
ZN383_g14904.t1	ZNF383	729	0	1.11E-04
LOC000000105_g6535.t1	ZNF383	89	0	2.08E-03
MSTRG.5377.4	ZNF384	29	297	1.26E-02
ZN391_g2270.t1	ZNF391	16	380	1.97E-02
MSTRG.3133.1	ZNF396	333	0	5.68E-04
ZN398_g95.t1	ZNF398	617	0	3.40E-05
ZN408_g13563.t1	ZNF408	518	0	3.41E-04

MSTRG.9499.2	ZNF410	367.5	0	7.07E-05
ZN418_g14292.t1	ZNF418	42.5	0	2.45E-02
ZN423_g12909.t1	ZNF423	166.5	0	1.49E-04
ZN425_g96.t1	ZNF425	121.5	0	3.57E-03
MSTRG.14595.2	ZNF438	133	0	1.10E-03
ZN445_g18206.t1	ZNF445	51.5	0	1.25E-02
MSTRG.2866.1	ZNF451	181	0	2.97E-06
MSTRG.11695.1	ZNF462	259.5	1181.5	2.35E-02
ZN470_g14347.t2	ZNF470	47	0	1.72E-02
ZNF48_g10412.t1	ZNF48	229.5	0	2.33E-06
MSTRG.3251.1	ZNF532	540	0	5.49E-06
ZN548_g14321.t1	ZNF548	47	1107	7.25E-06
MSTRG.13794.2	ZNF551	38	0	3.19E-02
MSTRG.21625.4	ZNF558	301.5	0	1.29E-05
MSTRG.21587.4	ZNF558	49.5	0	1.55E-02
MSTRG.21625.1	ZNF558	317	29.5	2.15E-02
MSTRG.14374.1	ZNF568	32.5	0	4.98E-02
MSTRG.14154.2	ZNF574	274.5	0	1.93E-05
MSTRG.14154.3	ZNF574	69	0	3.07E-02
ZN599_g14920.t1	ZNF599	549	0	2.26E-05
MSTRG.13763.1	ZNF606	223	0	1.42E-04
MSTRG.13763.4	ZNF606	206	0	4.64E-04
MSTRG.13927.1	ZNF615	223.5	0	4.43E-05
MSTRG.13927.2	ZNF615	7.5	130.5	3.52E-03
ZN621_g18173.t1	ZNF621	242.5	0	6.28E-05
MSTRG.9164.3	ZNF623	91	0	3.01E-02
MSTRG.3445.2	ZNF639	411.5	0	2.53E-05
MSTRG.4363.1	ZNF652	80.5	0	3.57E-03
MSTRG.21619.4	ZNF658	92	0	2.24E-03
MSTRG.14634.3	ZNF664	446	0	1.48E-05
MSTRG.14634.4	ZNF664	209	0	3.29E-04
ZN347_g14451.t1	ZNF665	49.5	0	1.55E-02
MSTRG.13847.6	ZNF667	212	0	1.32E-04
MSTRG.13847.3	ZNF667	53	679	3.40E-04
MSTRG.20560.1	ZNF674	93.5	0	4.23E-03
MSTRG.20562.2	ZNF674	58	0	9.10E-03
MSTRG.9218.3	ZNF7	861.5	0	1.50E-06
MSTRG.9218.2	ZNF7	820.5	11	2.70E-02
ZN709_g17299.t1	ZNF709	291	0	2.41E-05

ZN709_g17315.t1	ZNF709	6	81.5	1.66E-03
MSTRG.16673.1	ZNF709	49.5	0	1.46E-02
MSTRG.16701.1	ZNF709	38.5	0	3.52E-02
ZN711_g21536.t1	ZNF711	112	0	2.05E-03
MSTRG.5048.2	ZNF740	486	0	1.69E-05
MSTRG.6335.4	ZNF782	42	0	2.60E-02
ZN784_g14378.t1	ZNF784	33	0	5.07E-02
MSTRG.10485.3	ZNF785	380	0	6.64E-06
MSTRG.14823.8	ZNF79	122	0	5.83E-04
MSTRG.15497.1	ZNF804A	164	3.5	1.30E-03
PRAME_g14910.t1	ZNF829	140	717	3.37E-02
MSTRG.16764.1	ZNF829	0.5	32.5	5.10E-02
MSTRG.13905.1	ZNF845	102	0	1.00E-03
SSPO_g87.t1	ZNF862	54	0	1.13E-02
ZFP28_g14348.t1	ZNF883	1075	40.5	2.52E-05
MSTRG.8768.2	ZNFX1	1026	0	1.92E-07
ZNHI1_g10273.t1	ZNHIT1	116.5	0	2.92E-03
ZNHI2_g14007.t1	ZNHIT2	54	0	4.98E-02
MSTRG.7163.1	ZNHIT6	105	0	4.31E-03
ZPR1_g19458.t1	ZPR1	89	0	1.96E-03
STK31_g9455.t1	ZSCAN12	82	0	2.36E-03
MSTRG.2535.5	ZSCAN12	542	0	1.56E-06
ZSC21_g10203.t1	ZSCAN21	858.5	0	4.88E-07
ZSC26_g2317.t1	ZSCAN26	64.5	0	1.17E-02
MSTRG.10721.3	ZSCAN32	46	0	1.80E-02
MSTRG.9556.1	ZSWIM4	4203.5	543.5	2.01E-02
ZSWM7_g3619.t1	ZSWIM7	106.5	0	2.12E-03

Supplemental Table 3. All information on the animal is based upon the time of OPU

Animal ID	Age	Weight (kg)	Reproductive Pathologies	Years in Captivity	Parity
1	24	1,730	None	24	Multiparous
2	7	1,620	None	7	Primiparous
3	11	1,956	None	7	Nulliparous