

Supplemental Table 3: Comparison of sexually dimorphic genes in the heart of two and eight months old mice with those identified in studies of Yang X *et al.* (2006; adipose tissue, brain, liver, and skeletal muscle) and Rinn JL *et al.* (2004; kidney). Used datasets are listed below. Red color indicates female-biased expression in the compared tissues, blue indicates male-biased expression in the compared tissues, and black indicates a different bias of expression in the compared tissues (i.e female-biased in the heart and male-biased in another tissue).

Overview

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a. Overlap of adipose tissue and heart (2 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	6.04	0.32	33.55	0.00000
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI510645	Mm.302938	26900	Y	4.63	0.32	144.17	0.00000
Tfrc	Transferrin receptor	AA413490	Mm.28683	22042	16	2.52	1.41	0.94	0.00764
Nsmf	Neutral sphingomyelinase (N-SMase) activation associated factor	AA013700	Mm.3059	18201	4	2.13	0.75	0.94	0.00008
Cxcl7	Chemokine (C-X-C motif) ligand 7	AA882184	Mm.293614	57349	5	1.93	0.32	1.22	0.00001
Postn	Periostin, osteoblast specific factor	W81878	Mm.236067	50706	3	1.91	0.75	0.71	0.00000
Nup160	Nucleoporin 160	AA415358	Mm.24532	59015	2	1.83	0.32	1.27	0.00000
Srpx	Sushi-repeat-containing protein	AI465834	Mm.1927	51795	X	1.82	1.41	1.08	0.00723
Pkia	Protein kinase inhibitor, alpha	AI391322	Mm.3193	18767	3	1.80	1.41	1.19	0.00000
Slc22a3	RIKEN cDNA C030013G03 gene	AA710965	Mm.99252	20519	17	1.78	1.41	0.90	0.00068
Iigp1	Interferon inducible GTPase 1	AA260490	Mm.261140	60440	18	1.76	1.10	0.67	0.00000
Wisp2	WNT1 inducible signaling pathway protein 2	AA754979	Mm.13828	22403	2	1.72	1.41	1.60	0.00000
Sn	Sialoadhesin	AA711868	Mm.1374	20612	2	1.65	0.75	0.86	0.00000

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Dhdh		AA242433	Mm.34208	71755	7	1.62	1.41	0.66	0.00000
Fbn1	Fibrillin 1	AW210317	Mm.271644	14118	2	1.61	1.41	1.15	0.00107
Tcf7l2	Transcription factor 7-like 2, T-cell specific, HMG-box	AA273416	Mm.139815	21416	19	1.51	1.41	0.80	0.00029
Igf2bp3	Insulin-like growth factor 2, binding protein 3	AI606545	Mm.281018	140488	6	1.50	1.41	1.10	0.00036
Loxl1	Lysyl oxidase-like 1	AI322695	Mm.250492	16949	9	1.50	1.41	0.93	0.00000
Jarid1c	Jumonji, AT rich interactive domain 1C (Rbp2 like)	AI606544	Mm.142655	20591	X	0.67	0.75	0.89	0.00000
Tspan1	Tetraspanin 1	AA072834	Mm.45994	66805	4	0.67	0.32	0.97	0.00002
Slc9a3r1	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 re	AA114621	Mm.27842	26941	11	0.67	0.32	1.13	0.00044
Il2rg	Interleukin 2 receptor, gamma chain	AA260777	Mm.2923	16186	X	0.67	1.20	1.13	0.00075
Pfkfb3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	AA163244	Mm.19669	170768	2	0.67	0.75	0.68	0.00000
Dok2	Docking protein 2	AI391168	Mm.243323	13449	14	0.67	0.32	1.49	0.00000
Klf15	Kruppel-like factor 15	AA060858	Mm.41389	66277	6	0.67	0.32	0.89	0.00000
Ptp1b	Protein tyrosine phosphatase-like (proline instead of catalytic argir	AA210263	Mm.27286	70757	16	0.67	0.32	1.33	0.00000
Acsm3	acyl-CoA synthetase medium-chain family member 3	AA879869	Mm.334199	20216	7	0.66	1.10	0.36	0.00000
Slc7a10	Solute carrier family 7 (cationic amino acid transporter, y+ system)	AI552288	Mm.35567	53896	7	0.66	1.10	0.90	0.00139
Insl6	Insulin-like 6	AA940549	Mm.306511	27356	19	0.66	1.10	1.28	0.00000
Cenpf	Centromere autoantigen F	AA529656	Mm.362296	108000	1	0.66	0.32	0.79	0.00000
Ddx3x	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked	AA671424	Mm.289662	13205	X	0.65	0.75	0.82	0.00000
Hmha1	Histocompatibility (minor) HA-1	AI607681	Mm.243954	70719	10	0.65	1.10	1.16	0.00002
Lcp2	Lymphocyte cytosolic protein 2	AA189872	Mm.265350	16822	11	0.65	1.10	1.41	0.00000
Mt1	Metallothionein 1	AA638765	Mm.192991	17748	8	0.65	0.32	1.39	0.00000
Eif2s3x	Eukaryotic translation initiation factor 2, subunit 3, structural gene	AA066780	Mm.218851	26905	X	0.64	0.32	0.90	0.00007
Krt1-15	Keratin complex 1, acidic, gene 15	AA760344	Mm.38498	16665	11	0.64	0.32	0.79	0.00307
Gata3	GATA binding protein 3	AA666992	Mm.313866	14462	2	0.64	0.32	0.95	0.00975
Pstpip1	Proline-serine-threonine phosphatase-interacting protein 1	AA980931	Mm.2534	19200	9	0.64	0.32	1.42	0.00000
Lepr	Leptin receptor	AA286541	Mm.259282	16847	4	0.64	1.10	0.86	0.00000
Tnc	RIKEN cDNA C130033P17 gene	W12942	Mm.980	21923	4	0.63	1.41	0.78	0.00003
Serpina1a	Serine (or cysteine) preptidase inhibitor, clade A, member 1b	W37032	Mm.373542	20700	12	0.63	1.10	0.87	0.00000
Gpsm3	G-protein signalling modulator 3 (AGS3-like, C. elegans)	AA050074	Mm.26584	106512	17	0.63	0.32	1.29	0.00000
Rac2	RAS-related C3 botulinum substrate 2	AA880744	Mm.1972	19354	15	0.63	0.75	1.56	0.00000
Rassf5	Ras association (RalGDS/AF-6) domain family 5	AI552504	Mm.248291	54354	1	0.63	0.32	1.31	0.00000
Bcl2l1	Bcl2-like 1	AA880559	Mm.238213	12048	2	0.62	0.32	0.94	0.00248
Ikbke	Inhibitor of kappaB kinase epsilon	AA423538	Mm.276259	56489	1	0.62	0.32	1.29	0.00000
2610018G03Rik	RIKEN cDNA 2610018G03 gene	AA285799	Mm.46254	70415	X	0.61	0.75	0.76	0.00000
Nfkbia	Nuclear factor of kappa light chain gene enhancer in B-cells inhibi	AA517353	Mm.170515	18035	12	0.61	0.32	0.93	0.00398
Rasgef1b	RasGEF domain family, member 1B	AA184852	Mm.259074	320292	5	0.61	0.32	1.43	0.00000
Skp2	S-phase kinase-associated protein 2 (p45)	AA867621	Mm.35584	27401	15	0.61	0.75	1.25	0.00000
Cd52	CD52 antigen	W15001	Mm.24130	23833	4	0.60	0.75	1.43	0.00000
Slc2a5	Solute carrier family 2 (facilitated glucose transporter), member 5	AA822271	Mm.260220	56485	4	0.60	1.20	0.58	0.00000

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Slc27a2	Solute carrier family 27 (fatty acid transporter), member 2	AA066694	Mm.290044	26458	2	0.60	0.32	0.81	0.00006
Mt2	Metallothionein 2	W36474	Mm.147226	17750	8	0.60	0.32	1.89	0.00000
Tkt	Transketolase	AI385796	Mm.290692	21881	14	0.59	1.10	0.81	0.00167
Fkbp5	FK506 binding protein 5	W53680	Mm.276405	14229	17	0.59	0.32	1.16	0.00325
Adam12	RIKEN cDNA 5033415L01 gene	AI893930	Mm.323601	11489	7	0.59	0.75	0.79	0.00000
Clca3	Chloride channel calcium activated 3	AA596289	Mm.33483	23844	3	0.59	1.20	0.61	0.00000
D2Ert435e	Transformation related protein 53 binding protein 1	AA756177	Mm.383499	51885	2	0.59	0.32	1.21	0.00000
Selpl	Selectin, platelet (p-selectin) ligand	AA475311	Mm.332590	20345	5	0.59	0.32	1.32	0.00000
Vamp1	Vesicle-associated membrane protein 1	AI450533	Mm.32321	22317	6	0.58	0.32	0.85	0.00000
Trp63	Transformation related protein 63	AA798953	Mm.20894	22061	16	0.58	0.32	0.69	0.00000
Rab11fip4	RAB11 family interacting protein 4 (class II)	AA756379	Mm.130656	268451	11	0.58	0.75	0.93	0.00895
Ada	Adenosine deaminase	AA023331	Mm.388	11486	2	0.58	0.32	1.15	0.00862
Uhrf1	Ubiquitin-like, containing PHD and RING finger domains, 1	W54459	Mm.42196	18140	17	0.57	0.32	1.10	0.00053
Il17r	Hypothetical protein LOC231291	AA646250	Mm.4481	16172	6	0.56	0.32	1.10	0.00236
Tff2	Trefoil factor 2 (spasmolytic protein 1)	AI894032	Mm.1825	21785	17	0.56	0.32	0.81	0.00016
Klf2	Kruppel-like factor 2 (lung)	AI606037	Mm.26938	16598		0.56	0.32	0.90	0.00096
Rbp4	Retinol binding protein 4, plasma	AA967219	Mm.2605	19662	19	0.56	0.32	0.63	0.00000
Rnf167	Ring finger protein 167	AA474374	Mm.261818	70510	11	0.55	0.32	0.91	0.00011
Orm2	Orosomucoid 2	AA245687	Mm.14173	18406	4	0.55	0.32	0.88	0.00040
Cd1d1	CD1d1 antigen	AA839844	Mm.1894	12479	3	0.55	0.32	0.74	0.00000
Aldh1a7	Aldehyde dehydrogenase family 1, subfamily A7	AA122814	Mm.14609	26358	19	0.54	0.32	0.88	0.00050
Centb1	Centaurin, beta 1	AI508471	Mm.288671	216859	11	0.54	0.75	0.86	0.00274
Pcx	Pyruvate carboxylase	AI323108	Mm.1845	18563	19	0.54	0.32	0.87	0.00118
Gzma	Granzyme A	AI122257	Mm.15510	14938	13	0.53	0.32	0.73	0.00000
Top2a	Topoisomerase (DNA) II alpha	AA063958	Mm.4237	21973	11	0.53	0.32	1.12	0.00176
Cyp2e1	Cytochrome P450, family 2, subfamily e, polypeptide 1	AI386063	Mm.21758	13106	7	0.53	0.32	0.27	0.00000
Camk4	Calcium/calmodulin-dependent protein kinase IV	AA982338	Mm.222329	12326	18	0.52	0.32	0.94	0.00409
Fmo3	Flavin containing monooxygenase 3	AA209044	Mm.2900	14262	1	0.52	0.32	1.28	0.00394
Gpd2	Glycerol phosphate dehydrogenase 2, mitochondrial	W41175	Mm.3711	14571	2	0.52	0.32	0.68	0.00000
Tmem45b	Transmembrane protein 45b	AA789551	Mm.1323	235135	9	0.51	0.32	1.53	0.00000
Cdca3	Cell division cycle associated 3	AA416441	Mm.285723	14793	6	0.51	0.32	1.22	0.00000
Arhgap4	Rho GTPase activating protein 4	AI645219	Mm.246654	171207	X	0.51	0.32	1.09	0.00834
Socs1	Suppressor of cytokine signaling 1	AA437942	Mm.130	12703	16	0.51	0.32	0.85	0.00012
Car3	Carbonic anhydrase 3	AA611779	Mm.300	12350	3	0.33	0.32	0.63	0.00000
Sftpd	Surfactant associated protein D	AA880738	Mm.1321	20390	14	0.49	0.32	0.57	0.00000
Mki67	Antigen identified by monoclonal antibody Ki 67	AA671317	Mm.4078	17345	7	0.47	0.32	1.10	0.00065
Lrmp	Lymphoid-restricted membrane protein	AI158088	Mm.843	16970	6	0.46	0.32	1.48	0.00000
Nusap1	Nucleolar and spindle associated protein 1	AA920753	Mm.290015	108907	2	0.43	0.32	1.09	0.00031
Aqp11	Aquaporin 11	AI595281	Mm.29756	66333	7	0.47	0.32	1.43	0.00000

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Orm1	Orosomucoid 1	AI117779	Mm.4777	18405	4	0.43	0.32	0.72	0.00000
Gla	Galactosidase, alpha	AI118621	Mm.1114	11605	X	0.43	0.32	1.29	0.00000
Kcnn4	Potassium intermediate/small conductance calcium-activated char	AA185547	Mm.9911	16534	7	0.42	0.32	1.70	0.00000
Ccnd3	Cyclin D3	AI552341	Mm.246520	12445	17	0.40	0.32	0.91	0.00007
Krt2-8	Keratin complex 2, basic, gene 8	AA607100	Mm.382083	16691	15	0.38	0.32	0.77	0.00019
Cyp2b10	Cytochrome P450, family 2, subfamily b, polypeptide 10	AI325330	Mm.218749	13088	7	0.37	0.32	0.92	0.00019
Kcna3	Potassium voltage-gated channel, shaker-related subfamily, mem	AA119270	Mm.30640	16491	3	0.36	0.32	0.93	0.00065
Satb1	Special AT-rich sequence binding protein 1	AA275312	Mm.311655	20230	17	0.35	0.32	0.75	0.00000
Zfpn1a1	Zinc finger protein, subfamily 1A, 1 (Ikaros)	AA596543	Mm.103545	22778	11	0.34	0.32	1.08	0.00000
Ccl28	Chemokine (C-C motif) ligand 28	AA762401	Mm.143745	56838	13	0.32	0.32	1.08	0.00002
Fasn	Fatty acid synthase	AA690737	Mm.236443	14104	11	0.31	0.32	0.83	0.00242
Sftpc	Surfactant associated protein C	AA222208	Mm.24040	20389	14	0.30	0.32	0.73	0.00000
Scd1	Stearoyl-Coenzyme A desaturase 1	AA754922	Mm.267377	20249	19	0.29	0.32	0.76	0.00000
Sept1	Septin 1	W16222	Mm.18	54204	7	0.29	0.32	0.83	0.00000
Sla	Src-like adaptor	AA867150	Mm.7601	20491	15	0.27	0.32	1.05	0.00448
Cyp2f2	Cytochrome P450, family 2, subfamily f, polypeptide 2	AA220582	Mm.4515	13107	7	0.27	0.32	0.86	0.00086
Ltf	Lactotransferrin	AA763033	Mm.282359	17002	9	0.25	0.32	0.64	0.00010
Nsg2	Neuron specific gene family member 2	W62007	Mm.3304	18197	11	0.24	0.32	1.58	0.00000
Cd4	CD4 antigen	AA210044	Mm.2209	12504	6	0.22	0.32	0.84	0.00000
Ly6d	Lymphocyte antigen 6 complex, locus D	AI386262	Mm.878	17068	15	0.19	0.32	0.61	0.00000
Ucp1	Uncoupling protein 1 (mitochondrial, proton carrier)	W41372	Mm.4177	22227	8	0.13	0.32	0.13	0.00000
1700021K02Rik	RIKEN cDNA 1700021K02 gene	AI587887	Mm.30227	65971	10	0.12	0.32	0.91	0.00000
Lat	Linker for activation of T cells	AA153591	Mm.10280	16797	7	0.11	0.32	1.17	0.00000
Dntt	Deoxynucleotidyltransferase, terminal	AI326745	Mm.25620	21673	19	0.09	0.32	0.92	0.00012
Cd8a	CD8 antigen, alpha chain	AA839138	Mm.1858	12525	6	0.09	0.32	0.86	0.00184

b. Overlap of adipose tissue and heart (8 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI646620	Mm.302938	26900	Y	56.53	3.13	144.17	0.00000
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	8.68	3.13	33.55	0.00000
Nap1l5	Nucleosome assembly protein 1-like 5	AA063845	Mm.389747	58243	6	0.63	3.13	0.35	0.00000
Slc14a1	Solute carrier family 14 (urea transporter), member 1	AI181682	Mm.33832	108052	18	0.62	3.13	0.63	0.00000
Sfrp2	Secreted frizzled-related sequence protein 2	AA061047	Mm.19155	20319	3	0.61	3.13	0.31	0.00000
Slc4a1	Solute carrier family 4 (anion exchanger), member 1	AA792268	Mm.7248	20533	11	0.61	3.13	0.91	0.00043
Orm1	Orosomucoid 1	AI117779	Mm.4777	18405	4	0.60	3.13	0.72	0.00000
Ltf	Lactotransferrin	AA763033	Mm.282359	17002	9	0.60	3.13	0.64	0.00010
Spon2	Spondin 2, extracellular matrix protein	AA718392	Mm.34694	100689	5	0.59	3.13	0.48	0.00000

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Cyp7b1	Cytochrome P450, family 7, subfamily b, polypeptide 1	AI156457	Mm.316000	13123	3	0.58	3.13	0.75	0.00000
Sfrp4	Secreted frizzled-related sequence protein 4	AI019575	Mm.42095	20379	13	0.51	3.13	0.3	0.00000
Arntl	Aryl hydrocarbon receptor nuclear translocator-like	AI550145	Mm.12177	11865	7	0.47	3.13	1.51	0.00000
Serpina3n	Serine (or cysteine) peptidase inhibitor, clade A, member 3N	AA821980	Mm.22650	20716	12	0.46	3.13	1.14	0.00290
Nt5e	5' nucleotidase, ecto	AI605613	Mm.244235	23959	9	0.45	3.13	1.12	0.00000
Ccl7	Chemokine (C-C motif) ligand 7	AA711435	Mm.341574	20306	11	0.39	3.13	1.8	0.00000
Cyp2b10	Cytochrome P450, family 2, subfamily b, polypeptide 10	AI325330	Mm.218749	13088	7	0.38	3.13	0.92	0.00019
Timp1	Tissue inhibitor of metalloproteinase 1	AA184223	Mm.8245	21857	X	0.37	3.13	1.78	0.00000
Spp1	Secreted phosphoprotein 1	AA563324	Mm.288474	20750	5	0.36	3.13	2.75	0.00000
Gla	Galactosidase, alpha	AI118621	Mm.1114	11605	X	0.34	3.13	1.29	0.00000
Cxcl5	Chemokine (C-X-C motif) ligand 5	AA871143	Mm.4660	20311	5	0.31	3.13	1.28	0.00000
Lcn2	Lipocalin 2	AA087193	Mm.9537	16819	2	0.21	3.13	1.31	0.00000
Sftpc	Surfactant associated protein C	AA222208	Mm.24040	20389	14	0.18	3.13	0.73	0.00000
Chi3l1	Chitinase 3-like 1	W10705	Mm.38274	12654	1	0.06	3.13	0.93	0.00030

c. Overlap of brain and heart (2 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI646620	Mm.302938	26900	Y	21.26	0.32	145.78	0.00000
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	6.04	0.32	32.35	0.00000
Pdk4	Pyruvate dehydrogenase kinase, isoenzyme 4	AI322278	Mm.235547	27273	6	3.41	1.10	0.90	0.00013
Iigp1	Interferon inducible GTPase 1	AA260490	Mm.261140	60440	18	1.76	1.10	0.89	0.00087
Folr2	Folate receptor 2 (fetal)	AA796142	Mm.2724	14276	7	1.50	1.41	0.84	0.00000
Ddx3x	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked	AA671424	Mm.289662	13205	X	0.65	0.75	0.75	0.00000
Ezh2	Enhancer of zeste homolog 2 (Drosophila)	AA445767	Mm.246688	14056	6	0.65	0.32	0.95	0.00528
Eif2s3x	Eukaryotic translation initiation factor 2, subunit 3, structural gene	AA066780	Mm.218851	26905	X	0.64	0.32	0.73	0.00000
Tnc	RIKEN cDNA C130033P17 gene	W12942	Mm.980	21923	4	0.63	1.41	0.86	0.00000
Nfkbia	Nuclear factor of kappa light chain gene enhancer in B-cells inhibi	AA517353	Mm.170515	18035	12	0.61	0.32	0.93	0.00922
Cks2	CDC28 protein kinase regulatory subunit 2	AA413740	Mm.222228	66197	13	0.60	0.32	0.94	0.00395
Klf2	Kruppel-like factor 2 (lung)	AI606037	Mm.26938	16598	8	0.56	0.32	0.89	0.00060
Aldh1a7	Aldehyde dehydrogenase family 1, subfamily A7	AA122814	Mm.14609	26358	19	0.54	0.32	0.86	0.00000
Arhgap4	Rho GTPase activating protein 4	AI645219	Mm.246654	171207	X	0.51	0.32	1.07	0.00001
Cyp2a4	Cytochrome P450, family 2, subfamily a, polypeptide 4	AA106125	Mm.154643	13086	7	0.31	0.32	0.90	0.00374
Prss16	Protease, serine, 16 (thymus)	AI605812	Mm.32043	54373	13	0.05	0.32	0.92	0.00000

d. Overlap of brain and heart (8 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI646620	Mm.302938	26900	Y	56.53	3.13	145.78	0.00000
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	8.68	3.13	32.35	0.00000
Chi3l3	Chitinase 3-like 3	AA673731	Mm.387173	12655	3	0.41	3.13	1.19	0.00000

e. Overlap of kidney and heart (2 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked		Mm.302938	26900	Y	21.26	0.32	5.48	0.80310
Eif2s3y	Eukaryotic translation initiation factor 2, subunit 3, structural gene Y-linked		Mm.250909	26908	Y	10.24	0.32	48.87	0.80310
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)		Mm.262676	20592	Y	6.04	0.32	6.30	0.80310
AcsM3	Acyl-CoA synthetase medium-chain family member 3		Mm.334199	20216	7	0.66	1.10	56.02	0.80310
Inmt	Indolethylamine N-methyltransferase		Mm.299	21743	6	0.57	0.32	2.62	0.80310
Cyp2e1	Cytochrome P450, family 2, subfamily e, polypeptide 1		Mm.21758	13106	7	0.53	0.32	3.32	0.80310
Ccl28	Chemokine (C-C motif) ligand 28		Mm.143745	56838	13	0.32	0.32	5.20	0.80310
Scd1	Stearoyl-Coenzyme A desaturase 1		Mm.267377	20249	19	0.29	0.32	0.50	0.80310

f. Overlap of kidney and heart (8 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI646620	Mm.302938	26900	Y	56.53	3.13	5.47695	0.80310
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	8.68	3.13	6.30291	0.80310
Eif2s3y	Eukaryotic translation initiation factor 2, subunit 3, structural gene	AI386390	Mm.250909	26908	Y	3.84	3.13	48.86603	0.80310
Cyp7b1	Cytochrome P450, family 7, subfamily b, polypeptide 1	AI156457	Mm.316000	13123	3	0.58	44.64	21.27666	0.80310
Nt5e	5' nucleotidase, ecto	AI605613	Mm.244235	23959	9	0.45	3.13	2.05431	0.80310

g. Overlap of liver and heart (2 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI646620	Mm.302938	26900	Y	21.26	0.32	125.37	0.00000
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	6.04	0.32	18.88	0.00000
Cxcl7	Chemokine (C-X-C motif) ligand 7	AA882184	Mm.293614	57349	5	1.93	0.32	0.73	0.00000
Agtr1	Angiotensin receptor-like 1	AA000564	Mm.29368	23796	2	1.88	1.41	1.16	0.00000

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Lrtm1	Leucine-rich repeats and transmembrane domains 1	AA433722	Mm.386754	319476	14	1.83	1.41	0.59	0.00000
Srpx	Sushi-repeat-containing protein	AI465834	Mm.1927	51795	X	1.82	1.41	1.09	0.00000
Slc22a3	RIKEN cDNA C030013G03 gene	AA710965	Mm.99252	20519	17	1.78	1.41	1.39	0.00000
Wisp2	WNT1 inducible signaling pathway protein 2	AA754979	Mm.13828	22403	2	1.72	1.41	1.12	0.00000
Ofd1	Oral-facial-digital syndrome 1 gene homolog (human)	AI508554	Mm.247480	237222	X	1.71	1.41	1.08	0.00000
Ptgds	Prostaglandin D2 synthase (brain)	AA462585	Mm.1008	19215	2	1.65	1.10	0.79	0.00000
Serpina3c	Serine (or cysteine) peptidase inhibitor, clade A, member 3C	W14912	Mm.14191	16625	12	1.65	1.41	1.79	0.00000
Igf2bp3	Insulin-like growth factor 2, binding protein 3	AI606545	Mm.281018	140488	6	1.50	1.41	0.90	0.00000
Loxl1	Lysyl oxidase-like 1	AI322695	Mm.250492	16949	9	1.50	1.41	0.91	0.00001
Folr2	Folate receptor 2 (fetal)	AA796142	Mm.2724	14276	7	1.50	1.41	0.61	0.00000
Jarid1c	Jumonji, AT rich interactive domain 1C (Rbp2 like)	AI606544	Mm.142655	20591	X	0.67	0.75	0.94	0.00000
Il2rg	Interleukin 2 receptor, gamma chain	AA260777	Mm.2923	16186	X	0.67	1.20	0.87	0.00000
Stambpl1	Stam binding protein like 1	AA203985	Mm.130952	76630	19	0.67	0.32	0.64	0.00000
Pfkfb3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	AA163244	Mm.19669	170768	2	0.67	0.75	1.27	0.00000
Gimap9	GTPase, IMAP family member 9	AI644912	Mm.116971	317758	6	0.67	1.10	0.94	0.00000
Sfxn1	Sideroflexin 1	AA068366	Mm.134191	14057	13	0.67	0.32	0.87	0.00000
Dok2	Docking protein 2	AI391168	Mm.243323	13449	14	0.67	0.32	0.81	0.00000
G22p1	X-ray repair complementing defective repair in Chinese hamster c	AA798305	Mm.288809	14375	15	0.67	0.32	0.92	0.00000
Klf15	Kruppel-like factor 15	AA060858	Mm.41389	66277	6	0.67	0.32	0.93	0.00225
Insl6	Insulin-like 6	AA940549	Mm.306511	27356	19	0.66	1.10	0.80	0.00000
Btg2	B-cell translocation gene 2, anti-proliferative	AA596779	Mm.239605	12227	1	0.66	0.32	1.07	0.00585
Lcp2	Lymphocyte cytosolic protein 2	AA189872	Mm.265350	16822	11	0.65	1.10	0.84	0.00000
Mt1	Metallothionein 1	AA638765	Mm.192991	17748	8	0.65	0.32	0.70	0.00000
Gata3	GATA binding protein 3	AA666992	Mm.313866	14462	2	0.64	0.32	0.92	0.00000
Lepr	Leptin receptor	AA286541	Mm.259282	16847	4	0.64	1.10	0.65	0.00000
Tnc	RIKEN cDNA C130033P17 gene	W12942	Mm.980	21923	4	0.63	1.41	1.25	0.00002
Gpsm3	G-protein signalling modulator 3 (AGS3-like, C. elegans)	AA050074	Mm.26584	106512	17	0.63	0.32	0.84	0.00000
Rac2	RAS-related C3 botulinum substrate 2	AA880744	Mm.1972	19354	15	0.63	0.75	0.81	0.00000
Cdc2a	Cell division cycle 2 homolog A (S. pombe)	AW210382	Mm.281367	12534	10	0.63	0.32	1.15	0.00000
Rassf5	Ras association (RalGDS/AF-6) domain family 5	AI552504	Mm.248291	54354	1	0.63	0.32	0.88	0.00000
Cd3d	CD3 antigen, delta polypeptide	AI020855	Mm.4527	12500	9	0.62	0.32	0.89	0.00000
Ikbke	Inhibitor of kappaB kinase epsilon	AA423538	Mm.276259	56489	1	0.62	0.32	1.06	0.00271
Dgka	Diacylglycerol kinase, alpha	AA061283	Mm.291235	13139	10	0.62	0.32	0.90	0.00000
Glul	Glutamate-ammonia ligase (glutamine synthase)	AI019469	Mm.210745	14645	1	0.61	0.75	0.90	0.00015
C8a	Complement component 8, alpha polypeptide	AA822106	Mm.197638	230558	4	0.61	0.32	2.77	0.00000
Capn3	Calpain 3	AA117626	Mm.20863	12335	2	0.61	0.32	0.90	0.00011
Nfkbia	Nuclear factor of kappa light chain gene enhancer in B-cells inhibi	AA517353	Mm.170515	18035	12	0.61	0.32	0.87	0.00000

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Rasgef1b	RasGEF domain family, member 1B	AA184852	Mm.259074	320292	5	0.61	0.32	0.75	0.00000
Skp2	S-phase kinase-associated protein 2 (p45)	AA867621	Mm.35584	27401	15	0.61	0.75	1.11	0.00000
Slc2a5	Solute carrier family 2 (facilitated glucose transporter), member 5	AA822271	Mm.260220	56485	4	0.60	1.20	0.88	0.00036
1700037H04Rik	RIKEN cDNA 1700037H04 gene	AI552950	Mm.27711	67326	2	0.60	0.32	1.19	0.00000
Mt2	Metallothionein 2	W36474	Mm.147226	17750	8	0.60	0.32	0.63	0.00000
Scd2	Stearoyl-Coenzyme A desaturase 2	AI550596	Mm.193096	20250	19	0.59	0.32	0.86	0.00000
Fkbp5	FK506 binding protein 5	W53680	Mm.276405	14229	17	0.59	0.32	0.69	0.00000
Cd52	CD52 antigen	AA238062	Mm.24130	23833	4	0.59	0.32	1.06	0.00036
Ssbp2	Single-stranded DNA binding protein 2	AA672330	Mm.343095	66970	13	0.59	0.32	0.87	0.00009
D2Ert435e	Transformation related protein 53 binding protein 1	AA756177	Mm.383499	51885	2	0.59	0.32	1.09	0.00000
Cyp2a12	Cytochrome P450, family 2, subfamily a, polypeptide 12	AA238327	Mm.20770	13085	7	0.59	0.32	0.73	0.00000
Selp1	Selectin, platelet (p-selectin) ligand	AA475311	Mm.332590	20345	5	0.59	0.32	0.93	0.00000
Tbc1d10c	TBC1 domain family, member 10c	AA184114	Mm.288312	108995	19	0.59	0.32	0.89	0.00000
Vamp1	Vesicle-associated membrane protein 1	AI450533	Mm.32321	22317	6	0.58	0.32	1.07	0.00000
Ly75	Lymphocyte antigen 75	AA867690	Mm.2074	17076	2	0.58	0.32	0.73	0.00000
Dsip1	TSC22 domain family 3	AA066442	Mm.22216	14605	X	0.58	0.32	0.85	0.00000
Tnfrsf18	Tumor necrosis factor receptor superfamily, member 18	AA274169	Mm.3180	21936	4	0.58	0.32	0.91	0.00035
Ada	Adenosine deaminase	AA023331	Mm.388	11486	2	0.58	0.32	0.79	0.00000
Sult1d1	Sulfotransferase family 1D, member 1	AI892274	Mm.6824	53315	5	0.56	0.75	0.60	0.00000
Cd24a	CD24a antigen	AI120876	Mm.29742	12484	10	0.56	0.32	1.10	0.00002
Rnf167	Ring finger protein 167	AA474374	Mm.261818	70510	11	0.55	0.32	0.95	0.00404
Slc25a1	Solute carrier family 25 (mitochondrial carrier, citrate transporter),	AA840565	Mm.229291	13358	16	0.55	0.32	1.11	0.00000
Orm2	Orosomucoid 2	AA245687	Mm.14173	18406	4	0.55	0.32	1.11	0.00048
Cd1d1	CD1d1 antigen	AA839844	Mm.1894	12479	3	0.55	0.32	0.76	0.00000
Aldh1a7	Aldehyde dehydrogenase family 1, subfamily A7	AA122814	Mm.14609	26358	19	0.54	0.32	1.21	0.00000
Ptprcap	Protein tyrosine phosphatase, receptor type, C polypeptide-associ	AI627045	Mm.329686	19265	19	0.54	0.32	0.83	0.00000
Centb1	Centaurin, beta 1	AI508471	Mm.288671	216859	11	0.54	0.75	0.94	0.00000
Pcx	Pyruvate carboxylase	AI323108	Mm.1845	18563	19	0.54	0.32	1.03	0.00603
Top2a	Topoisomerase (DNA) II alpha	AA063958	Mm.4237	21973	11	0.53	0.32	0.92	0.00013
Cyp2e1	Cytochrome P450, family 2, subfamily e, polypeptide 1	AI386063	Mm.21758	13106	7	0.53	0.32	0.81	0.00038
Fmo3	Flavin containing monooxygenase 3	AA209044	Mm.2900	14262	1	0.52	0.32	0.01	0.00000
Gpd2	Glycerol phosphate dehydrogenase 2, mitochondrial	W41175	Mm.3711	14571	2	0.52	0.32	1.12	0.00000
Tmem45b	Transmembrane protein 45b	AA789551	Mm.1323	235135	2	0.51	0.32	0.74	0.00000
Cdca3	Cell division cycle associated 3	AA416441	Mm.285723	14793	6	0.51	0.32	1.14	0.00005
Arhgap4	Rho GTPase activating protein 4	AI645219	Mm.246654	171207	X	0.51	0.32	0.85	0.00000
Abcg3	ATP-binding cassette, sub-family G (WHITE), member 3	AA145479	Mm.389663	27405	5	0.47	0.32	0.77	0.00000
Lrmp	Lymphoid-restricted membrane protein	AI158088	Mm.843	16970	6	0.46	0.32	0.91	0.00000

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Tox	Thymocyte selection-associated HMG box gene	AA184909	Mm.87051	252838	4	0.43	0.32	0.48	0.00000
Orm1	Orosomucoid 1	AI117779	Mm.4777	18405	4	0.43	0.32	1.07	0.00193
Txk	TXK tyrosine kinase	AA762897	Mm.3264	22165	5	0.40	0.32	0.80	0.00000
Myef2	Myelin basic protein expression factor 2, repressor	AI158547	Mm.330538	17876	2	0.38	0.32	1.53	0.00000
Krt2-8	Keratin complex 2, basic, gene 8	AA607100	Mm.382083	16691	15	0.38	0.32	1.45	0.00000
Cyp2b10	Cytochrome P450, family 2, subfamily b, polypeptide 10	AI325330	Mm.218749	13088	7	0.37	0.32	1.04	0.00072
Kcna3	Potassium voltage-gated channel, shaker-related subfamily, mem	AA119270	Mm.30640	16491	3	0.36	0.32	0.92	0.00000
Satb1	Special AT-rich sequence binding protein 1	AA275312	Mm.311655	20230	17	0.35	0.32	0.93	0.00083
5830405N20Rik	RIKEN cDNA 5830405N20 gene	AI606535	Mm.131264	67596	10	0.34	0.32	0.91	0.00000
Cistn3	Calsyntenin 3	AI390859	Mm.193701	232370	6	0.33	0.32	1.55	0.00000
Car3	Carbonic anhydrase 3	AI386062	Mm.300	12350	3	0.33	0.32	1.40	0.00000
Camk4	Calcium/calmodulin-dependent protein kinase IV	AI019266	Mm.45058	12326	18	0.32	0.32	1.15	0.00000
Cidec	Cell death-inducing DFFA-like effector c	AA062151	Mm.10026	14311	6	0.31	0.32	3.94	0.00000
Cyp2a4	Cytochrome P450, family 2, subfamily a, polypeptide 4	AA106125	Mm.154643	13086	7	0.31	0.32	0.20	0.00000
Scd1	Stearoyl-Coenzyme A desaturase 1	AA754922	Mm.267377	20249	19	0.29	0.32	1.29	0.00031
Cd3e	CD3 antigen, epsilon polypeptide	AI323257	Mm.210361	12501	9	0.27	0.32	1.05	0.00000
Bcl11b	B-cell leukemia/lymphoma 11B	AA855968	Mm.379090	58208	12	0.26	0.32	0.95	0.00275
Itk	IL2-inducible T-cell kinase	AA137960	Mm.339927	16428	11	0.26	0.32	0.77	0.00000
Nsg2	Neuron specific gene family member 2	W62007	Mm.3304	18197	11	0.24	0.32	1.42	0.00000
Cd3g	CD3 antigen, gamma polypeptide	AA796027	Mm.335106	12502	9	0.21	0.32	0.79	0.00000
Ly6d	Lymphocyte antigen 6 complex, locus D	AI386262	Mm.878	17068	15	0.19	0.32	1.40	0.00003
Sh2d1a	SH2 domain protein 1A	AI464772	Mm.235391	20400	X	0.15	0.32	0.83	0.00105
Lck	Lymphocyte protein tyrosine kinase	AA717185	Mm.293753	16818	4	0.15	0.32	1.25	0.00000
Ccl25	Chemokine (C-C motif) ligand 25	AI158138	Mm.7275	20300	8	0.13	0.32	0.87	0.00000
1700021K02Rik	RIKEN cDNA 1700021K02 gene	AI587887	Mm.30227	65971	10	0.12	0.32	0.81	0.00000
Dntt	Deoxynucleotidyltransferase, terminal	AI326745	Mm.25620	21673	19	0.09	0.32	0.67	0.00000
Cd8a	CD8 antigen, alpha chain	AA839138	Mm.1858	12525	6	0.09	0.32	0.93	0.00105
Snca	Synuclein, alpha	AI510034	Mm.17484	20617	6	0.08	0.32	1.23	0.00361
Rag1	Recombination activating gene 1	AA874497	Mm.828	19373	2	0.05	0.32	1.03	0.00186

h. Overlap of liver and heart (8 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI646620	Mm.302938	26900	Y	56.53	3.13	125.37	0.00000
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	8.68	3.13	18.88	0.00000
Slc14a1	Solute carrier family 14 (urea transporter), member 1	AI181682	Mm.33832	108052	18	0.62	3.13	0.93	0.00237

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Car2	Carbonic anhydrase 2	AA210505	Mm.1186	12349	3	0.61	3.13	0.7	0.00000
Clca1	Chloride channel calcium activated 1	AI640041	Mm.275745	12722	3	0.60	3.13	0.89	0.00013
Arntl	Aryl hydrocarbon receptor nuclear translocator-like	AI550145	Mm.12177	11865	7	0.47	3.13	1.11	0.00505
Serpina3n	Serine (or cysteine) peptidase inhibitor, clade A, member 3N	AA821980	Mm.22650	20716	12	0.46	3.13	1.07	0.00234
Nt5e	5' nucleotidase, ecto	AI605613	Mm.244235	23959	9	0.45	3.13	0.54	0.00000
Chi3l3	Chitinase 3-like 3	AA673731	Mm.387173	12655	3	0.41	3.13	1.13	0.00118
Ccl7	Chemokine (C-C motif) ligand 7	AA711435	Mm.341574	20306	11	0.39	3.13	1.22	0.00004
Cyp2b10	Cytochrome P450, family 2, subfamily b, polypeptide 10	AI325330	Mm.218749	13088	7	0.38	3.13	1.04	0.00072
Saa3	Serum amyloid A 3	AA881525	Mm.14277	20210	7	0.37	3.13	1.37	0.00000
Timp1	Tissue inhibitor of metalloproteinase 1	AA184223	Mm.8245	21857	X	0.37	3.13	1.42	0.00000
Spp1	Secreted phosphoprotein 1	AA563324	Mm.288474	20750	5	0.36	3.13	1.69	0.00000
Ptgds	Prostaglandin D2 synthase (brain)	AA462585	Mm.1008	19215	2	0.34	3.13	0.79	0.00000
Chi3l1	Chitinase 3-like 1	W10705	Mm.38274	12654	1	0.06	3.13	0.9	0.00000

i. Overlap of skeletal muscle and heart (2 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI646620	Mm.302938	26900	Y	21.26	0.32	105.22	0.00000
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	6.04	0.32	11.74	0.00000
Nup160	Nucleoporin 160	AA415358	Mm.24532	59015	2	1.83	0.32	0.92	0.00543
Lrtm1	Leucine-rich repeats and transmembrane domains 1	AA433722	Mm.386754	319476	14	1.83	1.41	0.62	0.00000
Slc22a3	RIKEN cDNA C030013G03 gene	AA710965	Mm.99252	20519	17	1.78	1.41	1.18	0.00062
Wisp2	WNT1 inducible signaling pathway protein 2	AA754979	Mm.13828	22403	2	1.72	1.41	1.04	0.00140
Ofd1	Oral-facial-digital syndrome 1 gene homolog (human)	AI508554	Mm.247480	237222	X	1.71	1.41	0.94	0.00000
Egf	Epidermal growth factor	AI326499	Mm.252481	13645	3	1.65	1.41	0.78	0.00000
Serpina3c	Serine (or cysteine) peptidase inhibitor, clade A, member 3C	W14912	Mm.14191	16625	12	1.65	1.41	1.08	0.00177
Srpx2	Sushi-repeat-containing protein, X-linked 2	AI450518	Mm.263553	68792	X	1.60	1.41	1.09	0.00541
Pfkfb3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	AA163244	Mm.19669	170768	2	0.67	0.75	1.85	0.00000
Ptpib	Protein tyrosine phosphatase-like (proline instead of catalytic argir	AA210263	Mm.27286	70757	16	0.67	0.32	1.18	0.00001
Sah	SA rat hypertension-associated homolog	AA879869	Mm.334199	20216	7	0.66	1.10	0.76	0.00005
Insl6	Insulin-like 6	AA940549	Mm.306511	27356	19	0.66	1.10	1.18	0.00000
Btg2	B-cell translocation gene 2, anti-proliferative	AA596779	Mm.239605	12227	1	0.66	0.32	0.89	0.00103
Ddx3x	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked	AA671424	Mm.289662	13205	X	0.65	0.75	0.60	0.00000
Ezh2	Enhancer of zeste homolog 2 (Drosophila)	AA445767	Mm.246688	14056	6	0.65	0.32	0.89	0.00012
Serpib5	Serine (or cysteine) peptidase inhibitor, clade B, member 5	AI037614	Mm.268618	20724	1	0.64	0.75	0.63	0.00000
Eif2s3x	Eukaryotic translation initiation factor 2, subunit 3, structural gene	AA066780	Mm.218851	26905	X	0.64	0.32	0.72	0.00000
Gata3	GATA binding protein 3	AA666992	Mm.313866	14462	2	0.64	0.32	0.67	0.00000
Dgka	Diacylglycerol kinase, alpha	AA061283	Mm.291235	13139	10	0.62	0.32	0.93	0.00101

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Glul	Glutamate-ammonia ligase (glutamine synthase)	AI019469	Mm.210745	14645	1	0.61	0.75	0.92	0.00000
Nfkbia	Nuclear factor of kappa light chain gene enhancer in B-cells inhibi	AA517353	Mm.170515	18035	12	0.61	0.32	0.86	0.00000
Cks2	CDC28 protein kinase regulatory subunit 2	AA413740	Mm.222228	66197	13	0.60	0.32	0.85	0.00445
Scd2	Stearoyl-Coenzyme A desaturase 2	AI550596	Mm.193096	20250	19	0.59	0.32	1.71	0.00000
Ssbp2	Single-stranded DNA binding protein 2	AA672330	Mm.343095	66970	13	0.59	0.32	1.07	0.00000
Dsip1	TSC22 domain family 3	AA066442	Mm.22216	14605	X	0.58	0.32	1.08	0.00641
Mns1	Meiosis-specific nuclear structural protein 1	AA004193	Mm.218	17427	9	0.56	0.32	1.12	0.00000
Cd24a	CD24a antigen	AI120876	Mm.29742	12484	10	0.56	0.32	1.19	0.00000
Klf2	Kruppel-like factor 2 (lung)	AI606037	Mm.26938	16598	8	0.56	0.32	0.88	0.00091
Slc25a1	Solute carrier family 25 (mitochondrial carrier, citrate transporter),	AA840565	Mm.229291	13358	16	0.55	0.32	1.10	0.00023
Aldh1a7	Aldehyde dehydrogenase family 1, subfamily A7	AA122814	Mm.14609	26358	19	0.54	0.32	1.28	0.00000
Pcx	Pyruvate carboxylase	AI323108	Mm.1845	18563	19	0.54	0.32	0.49	0.00000
Cyp2e1	Cytochrome P450, family 2, subfamily e, polypeptide 1	AI386063	Mm.21758	13106	7	0.53	0.32	0.89	0.00060
Gpd2	Glycerol phosphate dehydrogenase 2, mitochondrial	W41175	Mm.3711	14571	2	0.52	0.32	0.93	0.00120
Tacstd1	Tumor-associated calcium signal transducer 1	AA755032	Mm.4259	17075	17	0.49	0.32	0.53	0.00000
Gfi1	Growth factor independent 1	AA716844	Mm.2078	14581	5	0.43	0.32	0.82	0.00109
Krt2-8	Keratin complex 2, basic, gene 8	AA607100	Mm.382083	16691	15	0.38	0.32	0.61	0.00000
Gys2	Glycogen synthase 2	AI465768	Mm.275975	232493	6	0.35	0.32	1.19	0.00616
Car3	Carbonic anhydrase 3	AI386062	Mm.300	12350	3	0.33	0.32	0.68	0.00000
Ltf	Lactotransferrin	AA763033	Mm.282359	17002	9	0.25	0.32	0.75	0.00001
Nsg2	Neuron specific gene family member 2	W62007	Mm.3304	18197	11	0.24	0.32	1.41	0.00000
Myb	Myeloblastosis oncogene	AA123009	Mm.52109	17863	10	0.19	0.32	0.77	0.00000
Ly6d	Lymphocyte antigen 6 complex, locus D	AI386262	Mm.878	17068	15	0.19	0.32	0.88	0.00648
Fxyd2	FXD domain-containing ion transport regulator 2	AA108723	Mm.22742	11936	9	0.14	0.32	0.88	0.00810
Tcrb-V13	T-cell receptor beta, variable 13	AA791518	Mm.333026	269846	6	0.08	0.32	0.90	0.00595

j. Overlap of skeletal muscle and heart (8 months old) datasets

Symbol	Description	GenBank	UniGene	Entrez Gene	Chr.	M/F ratio heart	FDR heart	M/F ratio	wilcox pvalue
Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	AI646620	Mm.302938	26900	Y	56.53	3.13	105.22	0.00000
Jarid1d	Jumonji, AT rich interactive domain 1D (Rbp2 like)	AA170509	Mm.262676	20592	Y	8.68	3.13	11.74	0.00000
Ltf	Lactotransferrin	AA763033	Mm.282359	17002	9	0.60	3.10	0.75	0.00001
Sfrp4	Secreted frizzled-related sequence protein 4	AI019575	Mm.42095	20379	13	0.51	3.10	0.69	0.00000
Arntl	Aryl hydrocarbon receptor nuclear translocator-like	AI550145	Mm.12177	11865	7	0.47	3.13	1.12	0.00000
Serpina3n	Serine (or cysteine) peptidase inhibitor, clade A, member 3N	AA821980	Mm.22650	20716	12	0.46	3.13	1.62	0.00000
Ccl7	Chemokine (C-C motif) ligand 7	AA711435	Mm.341574	20306	11	0.39	3.13	1.39	0.00000
Timp1	Tissue inhibitor of metalloproteinase 1	AA184223	Mm.8245	21857	X	0.37	3.13	1.06	0.00016
Fxyd2	FXD domain-containing ion transport regulator 2	AA108723	Mm.22742	11936	9	0.16	3.13	0.88	0.00810