

DLPFC Transcriptome Defines Two Molecular Subtypes of Schizophrenia

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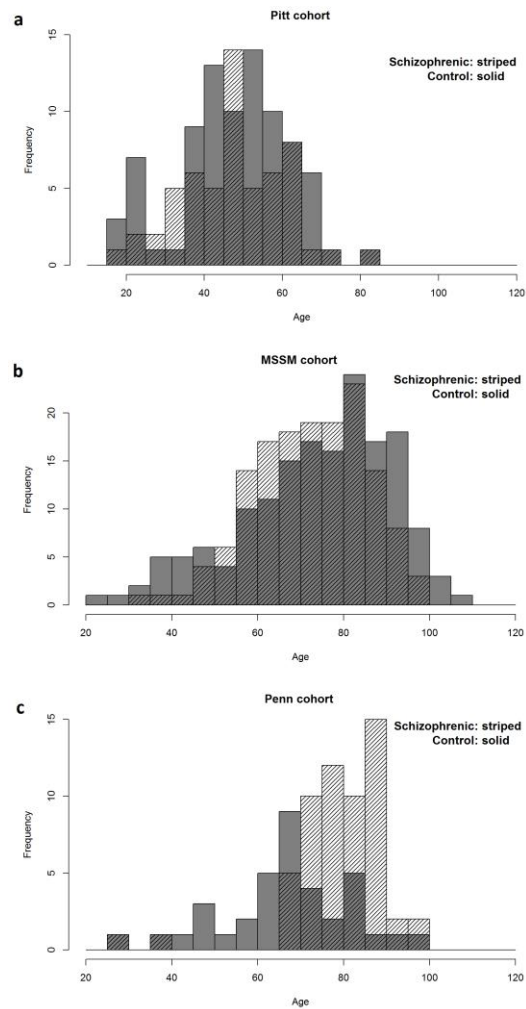
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Supplemental Information

A Supplementary figures



Supplemental Figure A1 | **Age distribution of the controls and schizophrenics (Sz) in the subcohorts of the CommonMind Consortium study.** (a) CMC-Pitt, (b) CMC-MSSM and (c) CMC-Penn.

	All subjects		Caucasians		African Americans	
	Controls	Sz	Controls	Sz	Controls	Sz
Female	61	72	16	40	43	31
Male	145	117	76	59	58	54

Supplemental Table A1 | **Distribution of schizophrenics and controls by ethnicity and gender.** NIMH cohort.

B Supplementary tables

	Symbol	Beta	P Value		Symbol	Beta	P Value
ILMN_1775170	MT1X	0.6303	4.60E-09	ILMN_1662905	NME1-NME2	-0.1295	0.000230835
ILMN_1659766	BAG3	0.5964	2.38E-08	ILMN_3226769	LOC730074	-0.1295	0.002337091
ILMN_1707727	ANGPTL4	0.5517	3.50E-06	ILMN_2327795	RERE	0.1294	9.19E-05
ILMN_2129572	F3	0.4989	1.47E-05	ILMN_1680196	LAPTM4B	-0.1294	0.022379569
ILMN_1684982	PDK4	0.4463	0.000526840	ILMN_1898682		0.1292	0.002360846
ILMN_1805750	IFITM3	0.4392	2.55E-07	ILMN_1674941	ANO6	0.1288	0.012064083
ILMN_2350634	EFEMP1	0.4266	0.047797732	ILMN_1752589	TMEM183A	-0.1287	0.000151055
ILMN_1686664	MT2A	0.4247	2.08E-05	ILMN_1755123	GBA	-0.1280	9.90E-05
ILMN_1673352	IFITM2	0.4221	4.41E-06	ILMN_3191695	LOC100128266	-0.1279	0.010053193
ILMN_2105919	FGF2	0.4141	9.33E-06	ILMN_2117330	NDUFB2	-0.1274	9.53E-09
ILMN_1731062	NPY	-0.4060	0.004331906	ILMN_1708151	LAGE3	-0.1273	0.000769901
ILMN_1782788	CSDA	0.4035	2.92E-05	ILMN_1779381	SEC61A2	-0.1267	0.006309728
ILMN_2408683	PPAP2B	0.4026	0.006125056	ILMN_1773018	CUEDC2	-0.1263	1.62E-08
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ILMN_1805466	SOX9	0.3916	0.000465128	ILMN_1762888	FAM119A	-0.1262	0.029970206
ILMN_1732410	SLC16A9	0.3860	0.001770266	ILMN_1663220	MRPL22	-0.1259	4.96E-05
ILMN_2357855	NTRK2	0.3838	0.002076342	ILMN_1742456	OSTF1	-0.1259	0.004008165
ILMN_1661599	DDIT4	0.3807	0.000508419	ILMN_2377496	ERCC1	-0.1257	1.21E-07
ILMN_3243185	RERGL	-0.3705	0.000534484	ILMN_2365711	2-Sep	0.1254	0.021620333
ILMN_1757338	PLSCR4	0.3692	1.27E-06	ILMN_1700024	UST	-0.1252	0.030236680
ILMN_1782050	CEBPD	0.3690	0.000769646	ILMN_1734880	LOC644128	0.1252	0.036159652
ILMN_2139396	IGDCC4	0.3578	5.28E-11	ILMN_1814650	TRAPPC4	-0.1249	0.000513948
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ILMN_3235853	S1PR1	0.3327	0.004330083	ILMN_1719072	LOC643011	0.1245	0.000149670
ILMN_1691156	MT1A	0.3267	1.34E-05	ILMN_1701749	UQCRFS1	-0.1244	0.036375839
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ILMN_1667068	ZC3HAV1	0.2135	3.68E-06	ILMN_1671207	IARS2	-0.1141	0.002170249
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ILMN_3243142	KAT2B	0.2022	0.000630340	ILMN_1685369	SLU7	-0.1110	0.044015788
ILMN_2071641	KCNK1	-0.2021	0.000238150	ILMN_2305112	CTH	0.1109	0.023561672
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ILMN_1787843	HSDL2	0.1964	0.002241955	ILMN_1714349	GLCE	-0.1100	0.037494964
ILMN_1655796	3-Mar	0.1964	0.005862072	ILMN_1809086	XRN1	0.1100	0.003175887
ILMN_1736103	ITPR2	0.1952	0.009982489	ILMN_1659437	TXNDC17	-0.1099	0.000200143
ILMN_1770412	AHCYL1	0.1934	6.76E-07	ILMN_1671932	SAMM50	-0.1098	0.000343024
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ILMN_1667295	VASN	0.1911	0.026860657	ILMN_3261197	ATP5E	-0.1083	0.000168822
ILMN_1651254	LPP	0.1896	0.000101867	ILMN_1718023	APEH	-0.1082	0.012848229
ILMN_2229214	STOX1	0.1888	0.009029928	ILMN_3248928	UBN2	0.1080	0.007987382
ILMN_1712673	SASH1	0.1873	0.033350578	ILMN_1679483	INTS10	0.1080	2.11E-06
ILMN_1684158	GPT2	0.1873	0.000720123	ILMN_1745887	FBXO21	0.1079	7.82E-07
ILMN_1787378	ADD3	0.1869	8.72E-06	ILMN_3307025	ZDHHC4	-0.1079	6.70E-05
ILMN_1676616	PTPRZ1	0.1859	0.044456396	ILMN_2307455	UBE2A	-0.1076	0.000343108
ILMN_1771987	SLC44A2	0.1854	0.001069277	ILMN_1741253	UBR5	0.1076	1.75E-05
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ILMN_2185984	SASH1	0.1830	0.020429350	ILMN_2386205	C21orf33	-0.1075	7.43E-05
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ILMN_1776173	PSMD7	-0.1808	0.000188845	ILMN_3281039	LOC642909	0.1071	0.048433916
ILMN_1759453	UQCRB	-0.1807	5.65E-06	ILMN_1760741	NDUFA9	-0.1069	8.44E-05
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ILMN_1733412	MGC5457	0.1798	1.13E-06	ILMN_1728047	AKR1A1	-0.1059	0.000126568
ILMN_1775743	BTG1	0.1792	1.30E-06	ILMN_1693136	VTI1B	-0.1058	0.003012655
ILMN_2129234	TMEM47	0.1789	0.032780668	ILMN_1667030	HSBP1	-0.1057	1.49E-07
ILMN_1795826	ATP6V0D1	-0.1786	2.42E-05	ILMN_1685365	ZNF773	0.1057	0.031204878
ILMN_1730794	SERTAD4	-0.1784	0.020386663	ILMN_1756572	COQ2	-0.1055	5.91E-05
ILMN_1707627	TPI1	-0.1782	0.019014985	ILMN_2122669	TOPORS	0.1053	0.004438550
ILMN_1678629	DOCK7	0.1782	0.001806740	ILMN_3194508	ASAP2	-0.1050	0.002520801
ILMN_3288830	LOC100132918	-0.1778	0.044504134	ILMN_2097259	CYP2U1	0.1049	0.000995000
ILMN_2411139	FIBP	-0.1777	2.64E-06	ILMN_1813817	MRPL55	-0.1049	0.028444824
ILMN_1758049	NFIA	0.1774	0.000720271	ILMN_2115379	ERP44	0.1047	0.000587158
ILMN_1727992	FEZ1	-0.1763	0.003739283	ILMN_1681829	ZNF606	0.1047	0.040437924
ILMN_2057220	HRSF12	0.1763	0.028688546	ILMN_1690371	MRPL11	-0.1043	0.001033400
ILMN_2177090	LOC200030	0.1759	3.02E-07	ILMN_1653599	ATP5D	-0.1040	0.023920278

ILMN_2219712	HMGB2	0.1752	0.000470353	ILMN_1679195	C2orf24	-0.1040	0.000843440
ILMN_1734476	KIF2A	-0.1747	0.000350391	ILMN_1657797	FIBP	-0.1038	0.002346030
ILMN_1772796	DYNLL2	-0.1747	6.47E-09	ILMN_1810423	RPP40	-0.1035	0.005343421
ILMN_1779264	PSMG1	-0.1745	0.007397160	ILMN_1802157	THOC1	0.1035	0.002793754
ILMN_1791576	CHSY1	0.1743	0.006977580	ILMN_2136177	CNOT6	0.1034	1.39E-06
ILMN_1785711	NEDD8	-0.1742	0.000299065	ILMN_1655117	WDR19	0.1034	0.002058808
ILMN_1670272	LRP10	0.1736	0.035294873	ILMN_2222074	PTPN12	0.1033	0.000129170
ILMN_2205350	C6orf66	-0.1733	0.045693198	ILMN_3261439	LOC100128098	0.1033	0.010842926
ILMN_1703330	FEM1C	0.1730	0.001583497	ILMN_1694057	EIF3K	-0.1032	0.000170411
ILMN_1687410	OSBPL11	0.1730	3.36E-06	ILMN_1665887	WDR61	-0.1031	0.006976317
ILMN_1671992	LOC650128	0.1729	0.007130833	ILMN_1810058	RABL2B	-0.1028	0.003199426
ILMN_3242459	DCTPP1	-0.1723	1.15E-07	ILMN_2277676	ERCC1	-0.1026	0.002172425
ILMN_1655011	SERF1B	-0.1721	0.000251774	ILMN_1737211	ZNF585A	0.1026	0.002306192
ILMN_1726417	MRPL33	-0.1721	2.44E-06	ILMN_2387599	C2orf24	-0.1025	0.001050995
ILMN_1656718	DEF8	-0.1718	3.32E-08	ILMN_1870457		0.1025	0.019037858
ILMN_1655906	FBXW7	-0.1716	0.002488118	ILMN_1663618	STAT3	0.1017	0.025277834
ILMN_1663751	CYCSL1	-0.1715	0.009688346	ILMN_3242551	LOC100130707	-0.1014	0.017985159
ILMN_2279635	EIF4G2	-0.1715	0.001210971	ILMN_1674302	PPAT	0.1012	0.012565815
ILMN_1669362	IGFBP6	-0.1712	1.72E-06	ILMN_1681591	PTPN1	0.1009	0.007317868
ILMN_2365544	NHP2	-0.1706	9.64E-09	ILMN_1717855	PFDN1	-0.1008	5.24E-05
ILMN_1693014	CEBPB	0.1698	0.017978506	ILMN_1682658	EPM2AIP1	0.1008	0.005577999
ILMN_1743241	ARL4A	0.1695	0.029575448	ILMN_1790008	CYP2U1	0.1007	0.014067956
ILMN_1782273	N4BP2	0.1693	3.82E-06	ILMN_1783636	COX6A1	-0.1004	0.001492180
ILMN_1772876	ZNF395	0.1692	6.05E-05	ILMN_1726138	EI24	-0.1004	0.026628871
ILMN_2105253	PTGR2	0.1685	0.004523684	ILMN_2195821	C5orf41	0.1001	0.042420791
ILMN_1699644	3-Mar	0.1683	0.033809303	ILMN_1682232	MIER1	0.1000	0.000172677
ILMN_1669788	NUDT14	-0.1681	0.000299480	ILMN_1737738	NDUFA12	-0.0998	0.019666922
ILMN_1671568	ECHDC2	0.1681	0.020478582	ILMN_2180582	PNPLA8	0.0996	0.036440152
ILMN_1770339	RPAIN	-0.1678	5.66E-06	ILMN_1673252	AIMP2	-0.0993	0.017631703
ILMN_1671843	PSRC1	0.1676	0.001217719	ILMN_1703718	CCT7	-0.0992	0.005144985
ILMN_1773576	CPNE3	0.1669	0.029658009	ILMN_1731113	ZBTB43	0.0992	0.00010406
ILMN_1704024	TMEM160	-0.1662	0.001480356	ILMN_1770732	COPS3	-0.0992	9.75E-06
ILMN_1768097	RPGR	0.1661	1.86E-05	ILMN_2372379	MGA	0.0987	0.024732903
ILMN_1676728	DLK2	-0.1661	0.000956679	ILMN_1657446	C1orf57	-0.0986	0.012106441
ILMN_1691104	PGAM4	-0.1649	0.000159082	ILMN_2243308	ACVR1B	0.0982	0.004754511
ILMN_1683120	UNG	0.1649	0.024899023	ILMN_1759952	PSMA5	-0.0980	0.002420050
ILMN_2366714	UCRC	-0.1637	0.003484534	ILMN_1743456	ZCCHC14	0.0979	0.045658617
ILMN_1763129	DCTPP1	-0.1636	1.88E-06	ILMN_1733932	SNUPN	-0.0977	0.001100962
ILMN_1812191	C12orf57	-0.1626	3.20E-07	ILMN_1689389	SF3B5	-0.0977	9.13E-05
ILMN_1769299	MTMR11	0.1621	9.38E-07	ILMN_3246538	LOC100133866	0.0976	0.007368013
ILMN_1800573	RPS21	-0.1618	1.94E-07	ILMN_1802553	MRPS24	-0.0975	0.004801627
ILMN_2315979	LBH	-0.1618	8.58E-05	ILMN_1809478	SSBP1	-0.0974	0.008061879
ILMN_1839019		0.1618	0.017870493	ILMN_1721391	ATP6V0B	-0.0973	0.013783497
ILMN_1718672	NHP2	-0.1617	3.95E-07	ILMN_1777449	IFT74	0.0971	0.018100692
ILMN_3231390	NHP2	-0.1610	4.84E-05	ILMN_3251436	DENND4C	0.0970	0.024905317
ILMN_1725105	EEF1E1	-0.1609	0.010522204	ILMN_2398926	C17orf58	0.0960	0.049939088
ILMN_1727360	MAOB	0.1608	6.81E-07	ILMN_1682857	NDUFAF2	-0.0959	0.047648351
ILMN_1747673	RASL10A	-0.1604	0.000970228	ILMN_1764177	JARID2	0.0958	0.007085065
ILMN_2206474	TMEM90B	-0.1592	0	ILMN_2311548	PTRH2	-0.0956	0.002419027
ILMN_1695579	CIT	0.1590	0.002583755	ILMN_1660193	ZNF529	0.0955	0.040605043
ILMN_1719627	SLC27A3	0.1584	9.23E-05	ILMN_1801383	SMG1	0.0951	0.027168139
ILMN_1671392	KCNF1	-0.1583	0.004003750	ILMN_1786015	CTCF	-0.0949	0.000195587
ILMN_2400292	MAPK9	-0.1576	0.016937785	ILMN_1739854	C15orf29	0.0944	0.005259437
ILMN_1786972	SARS	-0.1575	3.40E-05	ILMN_1666364	COQ10A	-0.0940	0.002926615
ILMN_2194561	PLEKHG1	0.1573	0.011682552	ILMN_1683026	PSMB10	-0.0938	0.002578764
ILMN_1770245	EPB41L5	0.1566	0.001885170	ILMN_1721876	TIMP2	0.0937	0.030908066
ILMN_1760088	CCKBR	-0.1556	0.032494381	ILMN_1753890	TMEM97	0.0937	0.004649998
ILMN_1843198		0.1548	0.019793326	ILMN_2105033	PLDN	0.0936	0.005551003

ILMN_3178302	FNDC3B	0.1545	6.90E-07	ILMN_1788384	C9orf5	0.0932	0.007983026
ILMN_1654112	PARD6A	-0.1536	0.000446311	ILMN_2062754	SRA1	-0.0932	9.52E-06
ILMN_1772286	OCIAD2	-0.1536	0.047780162	ILMN_1651964	ABCC5	0.0931	0.039186361
ILMN_1727618	C8orf38	-0.1532	0.009092593	ILMN_3275580	LOC644353	0.0931	0.006142812
ILMN_2184708	LIN7C	0.1531	2.83E-06	ILMN_1701731	AKR1B1	-0.0929	0.000595267
ILMN_2144162	FLJ25006	0.1528	0.001032463	ILMN_1702837	PSMD1	-0.0929	0.024885091
ILMN_1793360	APITD1	-0.1526	0.014806284	ILMN_1690806	PTPLB	0.0928	0.024489772
ILMN_1783023	C5orf51	0.1525	9.15E-07	ILMN_1711199	ZNF331	0.0928	0.001392618
ILMN_1815024	PRDX5	-0.1525	9.46E-06	ILMN_1690282	CRADD	-0.0927	0.000486274
ILMN_1679262	DPYSL3	0.1523	1.47E-09	ILMN_1695868	PRICKLE4	-0.0923	0.003243603
ILMN_1755221	LMAN2L	0.1522	0.000139498	ILMN_3292551	LOC286157	-0.0922	0.000585025
ILMN_1766000	PM20D2	0.1516	2.90E-11	ILMN_1753719	GTF2A2	-0.0922	0.017866541
ILMN_1718972	MFSD3	-0.1507	0.000270019	ILMN_1667925	PDCL3	-0.0920	0.012272539
ILMN_2154836	BTG3	0.1505	0.009797023	ILMN_1662658	PUS1	0.0920	0.027960870
ILMN_1712918	NQO2	-0.1505	0.019366988	ILMN_3240446	ZNF286C	0.0916	0.003801772
ILMN_1731561	ROBO3	0.1501	0.000452701	ILMN_2123665	SBF2	0.0912	0.027387037
ILMN_2043306	EPB41L5	0.1499	0.000149532	ILMN_1727495	L3MBTL3	0.0911	0.026644646
ILMN_1801864	LOC730455	-0.1496	0.000157337	ILMN_2405592	TMEM93	-0.0910	0.006731256
ILMN_1657796	STMN1	-0.1492	0.003480423	ILMN_2096604	NIP30	-0.0908	0.027888844
ILMN_1755077	HEBP2	0.1490	0.010414981	ILMN_1723021	ICMT	-0.0906	0.007367306
ILMN_1743367	FZD4	0.1488	0.020188629	ILMN_1764431	COPS6	-0.0906	4.32E-06
ILMN_1658679	YJEFN3	-0.1486	0.030290705	ILMN_1661886	APEX1	-0.0900	0.004321383
ILMN_1744442	TTPAL	-0.1484	0.000626325	ILMN_2117223	ROD1	0.0893	0.007466410
ILMN_1722838	MRPL46	-0.1480	0.000108743	ILMN_3238106	FAM161A	0.0887	0.015909530
ILMN_2233878	SERF1B	-0.1480	7.94E-05	ILMN_2073012	TMEM203	-0.0881	0.041450460
ILMN_1753586	CDH22	-0.1478	0.001985801	ILMN_1726306	HMBS	-0.0878	0.003839848
ILMN_1674551	SMAD5	0.1476	0.000305422	ILMN_2209163	CHD6	0.0877	0.003913327
ILMN_1698770	C5orf33	0.1476	0.009359355	ILMN_1796063	TRIM44	-0.0875	0.000256677
ILMN_2396813	C19orf62	-0.1468	0.028525168	ILMN_1655497	EIF4B	0.0873	0.033426004
ILMN_1658486	MRPL54	-0.1468	1.65E-08	ILMN_1756352	MAPBPIP	-0.0872	0.045329261
ILMN_1656185	DEF8	-0.1468	0.009823741	ILMN_1800390	ZNF511	-0.0868	1.41E-05
ILMN_3237956	ZC3H12C	0.1465	0.033257303	ILMN_1712432	PSMD2	-0.0866	0.003652132
ILMN_2217809	TMEM126A	-0.1464	0.000213305	ILMN_1795893	TMEM167B	0.0865	0.000878965
ILMN_1808122	LOC652377	-0.1463	0.015035900	ILMN_1794230	SCAND1	-0.0864	0.030698688
ILMN_1756501	ST6GAL1	-0.1462	0.014062219	ILMN_3252941	LOC100127918	-0.0861	0.038441173
ILMN_2345015	PTGES2	-0.1461	0.001412398	ILMN_1721741	ATPBD1B	0.0857	0.013524132
ILMN_1727740	SYNCRIP	-0.1454	6.01E-06	ILMN_2371964	MRPS12	-0.0855	0.001421801
ILMN_1659327	LOC283683	-0.1453	0.031785209	ILMN_1683175	C9orf23	-0.0853	0.004666017
ILMN_2401978	STAT3	0.1451	0.018143914	ILMN_2154671	COX6B1	-0.0850	0.047732651
ILMN_2125747	LOC606724	-0.1447	0.002357746	ILMN_2184049	COX7B	-0.0843	0.034641794
ILMN_2158705	ACYP2	-0.1443	4.22E-11	ILMN_2380771	AKR1A1	-0.0843	0.005116053
ILMN_2110252	NPM3	-0.1441	8.64E-05	ILMN_1673944	MANBAL	-0.0839	0.014044512
ILMN_1654322	ATP1B3	-0.1441	0.001910720	ILMN_2170353	PTPLB	0.0839	0.007597667
ILMN_1797828	DDRKG1	-0.1439	8.38E-06	ILMN_3181480	FLJ36131	0.0836	0.044102789
ILMN_2204726	UBR5	0.1434	3.10E-07	ILMN_1753426	KIAA0556	0.0836	0.007177811
ILMN_1728298	SBK1	-0.1433	0.029428485	ILMN_2044927	RNF5	-0.0834	0.001676638
ILMN_1729533	APOA1BP	-0.1430	2.44E-05	ILMN_1727840	SLC35B1	-0.0831	0.001043556
ILMN_2230035	BBS2	0.1429	0.000195814	ILMN_1734353	GPX4	-0.0831	0.00381799
ILMN_2313730	RHOC	0.1426	0.022726799	ILMN_1654542	C5orf21	0.0830	0.000300552
ILMN_1809139	AHCTF1	0.1425	4.98E-05	ILMN_1678165	LSM7	-0.0830	0.011511042
ILMN_1761058	ACAD11	0.1424	0.006598498	ILMN_1720606	LRCH2	0.0829	0.047464868
ILMN_2345016	PTGES2	-0.1424	0.000302582	ILMN_1655377	MRPS22	-0.0829	2.47E-06
ILMN_1704446	SLC6A10P	0.1423	0.041457381	ILMN_1790819	LOC728556	-0.0826	0.048218216
ILMN_1779480	KCMF1	-0.1423	0.002066298	ILMN_2130838	UTP11L	-0.0826	0.003614596
ILMN_1662263	MDP1	-0.1422	2.01E-05	ILMN_3199655	LOC646784	0.0825	0.010289381
ILMN_1760849	NETO2	-0.1421	0.043558229	ILMN_1764794	PSMB2	-0.0823	0.002427989
ILMN_3251415	RBM43	0.1420	0.000223030	ILMN_1811754	NDUFB10	-0.0821	1.57E-07
ILMN_1802355	RBM18	-0.1420	0.031021610	ILMN_1671314	UXT	-0.0820	0.019684068

ILMN_1723978	LGALS1	-0.1415	0.001495808	ILMN_1809944	TRMT12	-0.0815	0.027503754
ILMN_2172269	TMEM183B	-0.1414	2.45E-05	ILMN_1792489	ARPC2	-0.0812	0.000285084
ILMN_1808196	GSTO1	-0.1411	0.038184358	ILMN_2345837	CLTA	-0.0811	0.042912417
ILMN_2311989	CUTA	-0.1409	3.98E-08	ILMN_1764851	TP53RK	-0.0809	0.041092451
ILMN_2202940	CHPT1	0.1405	0.000896980	ILMN_1725705	CLPP	-0.0809	0.001169225
ILMN_1668027	LOC727762	0.1404	0.003912481	ILMN_1751956	MGST3	-0.0809	0.010518419
ILMN_2413084	HSPA8	-0.1402	0.003273998	ILMN_2358784	ASB3	0.0809	0.015511989
ILMN_1761456	ALG13	-0.1399	1.76E-07	ILMN_1666471	UQCRQ	-0.0808	0.002914278
ILMN_3277872	LOC644684	-0.1398	0.003570127	ILMN_1743582	NUDT22	-0.0804	0.021916910
ILMN_2085722	ING2	-0.1394	0.018189131	ILMN_2299072	CROP	0.0803	0.038370080
ILMN_2381138	SEH1L	-0.1393	0.039207422	ILMN_1712075	SYNM	0.0798	0.017988783
ILMN_1686367	HSPA8	-0.1392	0.015299578	ILMN_1758398	GUK1	-0.0795	0.001166742
ILMN_1713884	C16orf42	-0.1391	1.12E-08	ILMN_2225348	ZNF805	0.0795	0.033805436
ILMN_1664243	USE1	-0.1389	9.08E-10	ILMN_1736847	MED8	-0.0791	0.017672595
ILMN_3253456	FNDC3B	0.1387	1.13E-05	ILMN_1667257	SDHB	-0.0784	8.23E-05
ILMN_1739840	LRRRC8A	0.1385	0.028046698	ILMN_1736340	ANGEL2	0.0784	0.001354168
ILMN_1670305	SERPING1	0.1385	0.007325107	ILMN_1690999	MED23	0.0780	0.039929998
ILMN_1714278	C9orf30	-0.1383	1.83E-05	ILMN_2331062	CBFA2T2	0.0778	0.032055512
ILMN_1702247	CCNDBP1	-0.1383	0.028972902	ILMN_3240117	AIDA	0.0777	0.001326626
ILMN_1671554	LPIN1	0.1381	6.17E-06	ILMN_1763688	C17orf49	-0.0774	0.017685402
ILMN_1656293	GOSR2	-0.1379	9.89E-06	ILMN_1707084	UBE2D4	-0.0766	0.015854950
ILMN_1737635	RAD1	-0.1377	0.017407227	ILMN_2182198	ICT1	-0.0764	0.014872397
ILMN_2393763	ARPC4	-0.1373	0.000342029	ILMN_2343624	METTL13	-0.0759	0.040751612
ILMN_3237850	C5orf51	0.1372	7.52E-05	ILMN_1758412	COPS7A	-0.0759	0.001989207
ILMN_1773780	FAM173A	-0.1365	4.42E-06	ILMN_1764186	LOC146517	0.0759	0.009183168
ILMN_1755075	IDI1	-0.1365	0.001563874	ILMN_1813400	CBR4	0.0754	0.021811500
ILMN_1670322	FCHO2	0.1361	9.52E-06	ILMN_1654398	RGL1	0.0752	0.004178371
ILMN_1700306	OCIAD2	-0.1360	0.003476593	ILMN_1713380	EIF2B2	-0.0752	0.047542368
ILMN_1657332	CCDC85B	-0.1360	4.53E-05	ILMN_3298215	LOC729340	0.0751	0.007650699
ILMN_3254984	LOC100129759	-0.1358	0.031211906	ILMN_1777895	LRRRC37B	0.0748	0.032595530
ILMN_1690352	ADO	-0.1356	1.67E-06	ILMN_1700419	HSPC171	-0.0747	0.004616960
ILMN_2323385	TRIM4	0.1353	0.000658030	ILMN_1674128	CWC22	0.0747	0.027593971
ILMN_3226807	NHP2	-0.1353	1.35E-08	ILMN_2097421	MRPL51	-0.0746	0.016665535
ILMN_1813604	NDUFB7	-0.1351	1.32E-10	ILMN_2068435	ZNF700	0.0744	0.011609138
ILMN_1804007	NANOS3	-0.1351	0.002420122	ILMN_1695827	PPP1CA	-0.0743	0.001125927
ILMN_1808041	RPL10A	-0.1347	0.049781166	ILMN_1753885	YTHDF1	0.0742	0.010689522
ILMN_1766115	PLEKHF2	0.1346	0.019278188	ILMN_2176882	ZNF69	0.0742	0.043275790
ILMN_1705871	DDHD2	-0.1345	9.45E-08	ILMN_3291709	LOC402175	-0.0738	0.014807855
ILMN_1699603	MRPL12	-0.1345	7.01E-06	ILMN_2378952	GPX4	-0.0734	2.19E-06
ILMN_1675024	C1orf165	-0.1340	0.038129792	ILMN_2173004	RAB8B	0.0734	0.009717683
ILMN_1658351	FIS1	-0.1337	2.93E-07	ILMN_3238183	BMS1P5	0.0731	0.001866154
ILMN_1765644	COMMD8	-0.1335	0.035146355	ILMN_1797534	RIOK1	-0.0714	0.011354236
ILMN_1713756	GLUD1	0.1330	0.008535621	ILMN_1790680	PDE6D	-0.0708	0.000497022
ILMN_1747058	TRAPPC2L	-0.1329	0.032533641	ILMN_1722102	ANAPC11	-0.0705	0.035792015
ILMN_1761131	PECI	0.1328	0.002894982	ILMN_1692276	GGPS1	-0.0697	0.004667257
ILMN_1690443	C14orf82	0.1327	0.022962500	ILMN_1653718	ZFAND2B	-0.0678	0.006061053
ILMN_1786718	NDUFV1	-0.1325	0.005235263	ILMN_1815878	C11orf59	-0.0674	0.043362493
ILMN_1729112	CHPT1	0.1324	0.022068916	ILMN_1695576	MRPL24	-0.0654	0.008961780
ILMN_1750800	ACO1	0.1317	0.006487235	ILMN_1680378	RBM45	-0.0644	0.014876532
ILMN_1761804	ALDH9A1	0.1315	0.019712717	ILMN_1686750	MGEA5	0.0641	0.015303557
ILMN_1652512	C2CD2	0.1314	0.022260942	ILMN_1755909	C20orf11	0.0629	0.022434407
ILMN_2070043	PPM1K	0.1313	0.025558611	ILMN_2188119	ARL16	0.0629	0.013014282
ILMN_1779401	CHP	-0.1312	0.012291852	ILMN_2246510	TSC1	0.0601	0.044346180
ILMN_1789171	EEF2K	0.1311	0.013261628	ILMN_1654151	COX6C	-0.0591	0.040315418
ILMN_1814526	ADD3	0.1309	0.000828410	ILMN_2052790	NONO	0.0567	0.005602383
ILMN_2134555	KCTD3	0.1307	0.006379708	ILMN_1756674	ATP5EP2	-0.0539	0.010263611
ILMN_3228639	LOC728324	-0.1306	0.003921320	ILMN_1690342	LTA4H	0.0532	0.040193589
ILMN_2234873	NME2	-0.1298	8.44E-05	ILMN_1652207	COX4I1	-0.0482	0.018871470

ILMN_1750429	MKNK1	0.1297	0.004722042	ILMN_1726603	ATP5I	-0.0444	0.031632888
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Supplemental Table B1 | **List of the genes differentially expressed in the DLPFC of schizophrenics.**
NIMH cohort, without separating the “type 1” and “type 2” patients.

	Symbol	Beta	P Value
ILMN_1740216	ERCC3	0.1008	0.011533
ILMN_2106227	KIAA2026	0.1054	0.030918
ILMN_1788384	C9orf5	0.1012	0.031475
ILMN_1665212	EDC4	-0.0767	0.049682

Supplemental Table B2 | **Genes differentially expressed in the DLPFC of “type 1” schizophrenics relative to controls.** NIMH cohort. P-values are Bonferroni-corrected for the number of probes on the array which detect transcripts at a level greater than noise.

	Symbol	Beta	P Value		Symbol	Beta	P Value
ILMN_1802380	RERE	0.2191	0	ILMN_1817255		0.1295	8.82E-06
ILMN_2129572	F3	0.8850	0	ILMN_1715189	LHX6	-0.2110	8.83E-06
ILMN_1671992	LOC650128	0.3493	0	ILMN_1686553	INTS2	0.1264	8.93E-06
ILMN_1800197	MRPL36	-0.2082	0	ILMN_1824898	LOC728653	0.2047	8.98E-06
ILMN_1725105	EEF1E1	-0.3486	0	ILMN_1663444	LIN7B	-0.2543	9.05E-06
ILMN_1766000	PM20D2	0.2557	0	ILMN_1904980		0.1928	9.11E-06
ILMN_1782633	BOLA2	-0.2995	0	ILMN_2257665	PARL	-0.1692	9.13E-06
ILMN_3251207	TMEM19	-0.2366	0	ILMN_1714756	YIPF5	-0.2313	9.14E-06
ILMN_1800164	PPFIA1	0.2946	0	ILMN_1721106	C14orf159	0.1714	9.17E-06
ILMN_3231390	NHP2	-0.3380	0	ILMN_1894388		-0.3516	9.18E-06
ILMN_1779706	TP53BP2	0.5998	0	ILMN_2311278	ADD3	0.2881	9.22E-06
ILMN_1669831	C6orf192	0.3854	0	ILMN_3269655	FLJ35390	0.1302	9.25E-06
ILMN_1790471	CICE	-0.2738	0	ILMN_3240685	INO80D	0.1370	9.31E-06
ILMN_2105919	FGF2	0.7555	0	ILMN_2188119	ARL16	0.0994	9.55E-06
ILMN_2241775	TROVE2	0.2930	0	ILMN_1672496	DNAJA1	-0.2470	9.72E-06
ILMN_1796455	RYS3	0.5449	0	ILMN_1661537	LEPROT	0.3048	9.73E-06
ILMN_2194561	PLEKHG1	0.3427	0	ILMN_1678323	AASS	0.2188	9.74E-06
ILMN_1720850	BAZ2B	0.3604	0	ILMN_1780236	PMM1	-0.1633	9.76E-06
ILMN_1798360	CXCR7	0.5323	0	ILMN_1780132	PELI2	0.1987	9.76E-06
ILMN_1718023	APEH	-0.2263	0	ILMN_2131447	LRR3B	0.3497	9.89E-06
ILMN_1714567	AHNAK	0.4188	0	ILMN_1652017	PPEF1	-0.3435	9.91E-06
ILMN_1686664	MT2A	0.7416	0	ILMN_3248928	UBN2	0.1864	1.01E-05
ILMN_1739641	MTMR3	0.2358	0	ILMN_2344455	G3BP1	0.1780	1.03E-05
ILMN_1740231	ELMO1	-0.4341	0	ILMN_3213185	LOC645452	0.1148	1.03E-05
ILMN_1744649	PSMB5	-0.2733	0	ILMN_1685580	CBLB	0.1756	1.05E-05
ILMN_3191695	LOC100128266	-0.2621	0	ILMN_1733937	MMD	-0.2613	1.06E-05
ILMN_1815024	PRDX5	-0.2980	0	ILMN_1702487	SGK	0.4936	1.06E-05
ILMN_1755123	GBA	-0.2276	0	ILMN_3292551	LOC286157	-0.1327	1.09E-05
ILMN_1708619	SEH1L	-0.2414	0	ILMN_1742400	CEP350	0.1429	1.09E-05
ILMN_1743367	FZD4	0.3128	0	ILMN_1764166	BCKDHB	0.1996	1.09E-05
ILMN_2187718	COX17	-0.2459	0	ILMN_1793859	ALDH2	0.2474	1.09E-05
ILMN_1659895	MSN	0.3907	0	ILMN_2262275	TRIM13	0.1795	1.11E-05
ILMN_1770339	RPAIN	-0.3309	0	ILMN_1652379	SUCLG2	0.2720	1.11E-05
ILMN_1655377	MRPS22	-0.1495	0	ILMN_1775566	ATP1A1	-0.3322	1.11E-05
ILMN_1765409	STAM	-0.2820	0	ILMN_1727805	SYNGR1	-0.1809	1.11E-05
ILMN_2345016	PTGES2	-0.2732	0	ILMN_2098437	FAM10A4	-0.1547	1.12E-05
ILMN_2230035	BBS2	0.2669	0	ILMN_1773307	NAP1L5	-0.3187	1.12E-05
ILMN_1752589	TMEM183A	-0.2374	0	ILMN_1670895	ZNF207	0.0938	1.12E-05
ILMN_1682165	NT5C2	0.2192	0	ILMN_1704094	PSMA6	-0.1903	1.12E-05
ILMN_2284181	UGP2	0.4372	0	ILMN_2225348	ZNF805	0.1312	1.13E-05
ILMN_1755834	FEN1	-0.2465	0	ILMN_2083333	PMS2L5	-0.1979	1.13E-05
ILMN_1763147	NDUFB6	-0.2653	0	ILMN_2400407	CNTN1	-0.4033	1.14E-05
ILMN_1770732	COPS3	-0.1914	0	ILMN_3194508	ASAP2	-0.1570	1.14E-05
ILMN_2110252	NPM3	-0.2578	0	ILMN_3245983	NEURL1B	0.1710	1.14E-05
ILMN_1770412	AHCYL1	0.3227	0	ILMN_1699253	LOC729317	-0.2270	1.16E-05
ILMN_1809139	AHCTF1	0.2879	0	ILMN_1733615	MTF2	0.1523	1.17E-05
ILMN_2327795	RERE	0.2267	0	ILMN_1758067	RGS4	-0.2260	1.17E-05
ILMN_2389844	SP3	0.1703	0	ILMN_1813635	KIAA1429	0.1055	1.17E-05
ILMN_1673352	IFITM2	0.7809	0	ILMN_1789642	DNAJC5	-0.1543	1.19E-05
ILMN_1708151	LAGE3	-0.2442	0	ILMN_1737878	FLJ34047	0.2276	1.19E-05
ILMN_1662263	MDP1	-0.2826	0	ILMN_2087702	MYH9	0.1834	1.20E-05
ILMN_2183728	INTU	0.4162	0	ILMN_1666924	PINK1	-0.1622	1.20E-05
ILMN_1796063	TRIM44	-0.1668	0	ILMN_1774062	SLC25A5	-0.1268	1.20E-05
ILMN_1659766	BAG3	1.1574	0	ILMN_1656904	SLC1A4	0.2827	1.21E-05
ILMN_1787843	HSDL2	0.3719	0	ILMN_3243112	RNF182	0.3848	1.21E-05
ILMN_1733932	SNUPN	-0.1888	0	ILMN_2256907	MAPK10	-0.4603	1.21E-05
ILMN_2204726	UBR5	0.2585	0	ILMN_1801387	YEATS4	-0.2738	1.24E-05

ILMN_1721659	LOC643668	-0.3635	0	ILMN_1753279	HNRNPA0	-0.2072	1.24E-05
ILMN_3243185	RERGL	-0.6877	0	ILMN_1765858	CAB39	-0.1650	1.26E-05
ILMN_1658416	MRPS18C	-0.2219	0	ILMN_1727738	RAB33B	0.1627	1.26E-05
ILMN_1719627	SLC27A3	0.3135	0	ILMN_1763688	C17orf49	-0.1218	1.26E-05
ILMN_2377496	ERCC1	-0.2066	0	ILMN_1751803	LSM10	-0.1280	1.27E-05
ILMN_1753426	KIAA0556	0.1753	0	ILMN_1717165	IGBP1	-0.1399	1.27E-05
ILMN_1773780	FAM173A	-0.2358	0	ILMN_1764383	MCOLN1	-0.1644	1.28E-05
ILMN_1728047	AKR1A1	-0.2230	0	ILMN_2273224	SLC4A5	0.1888	1.28E-05
ILMN_1718972	MFSD3	-0.2855	0	ILMN_1718033	LYPD5	-0.2684	1.29E-05
ILMN_1729533	APOA1BP	-0.2676	0	ILMN_1805998	C18orf21	-0.1141	1.31E-05
ILMN_1729115	LOC651816	-0.2086	0	ILMN_1744647	CAND1	-0.1705	1.33E-05
ILMN_1813389	MRPS7	-0.2036	0	ILMN_1763842	PTRH1	-0.1544	1.34E-05
ILMN_1756755	LINGO1	-0.4147	0	ILMN_1730986	MALT1	0.1466	1.34E-05
ILMN_1665571	LOC644869	-0.2295	0	ILMN_3243175	LOC100132727	0.1202	1.34E-05
ILMN_3237850	C5orf51	0.2441	0	ILMN_1738955	C10orf104	0.1865	1.35E-05
ILMN_1765701	LOC399942	-0.6629	0	ILMN_1687279	DHPS	-0.1495	1.35E-05
ILMN_1765644	COMMD8	-0.2879	0	ILMN_2168952	DENR	0.2037	1.36E-05
ILMN_1738854	CACHD1	0.3779	0	ILMN_1760676	MORF4L1	-0.1268	1.38E-05
ILMN_1814156	PSMB7	-0.2074	0	ILMN_1768176	CXorf26	-0.1184	1.38E-05
ILMN_1656285	METTL7A	0.5735	0	ILMN_1748883	CDKN2D	-0.1816	1.38E-05
ILMN_1695290	FERMT2	0.5186	0	ILMN_3241136	RNASEK	-0.1321	1.40E-05
ILMN_2400292	MAPK9	-0.3499	0	ILMN_3240226	LOC791120	0.1975	1.40E-05
ILMN_1715931	ISCA1	-0.3137	0	ILMN_1737484	RTN4R	-0.2302	1.40E-05
ILMN_1741253	UBR5	0.1979	0	ILMN_3275580	LOC644353	0.1335	1.41E-05
ILMN_1779480	KCMF1	-0.2748	0	ILMN_2397846	SNCB	-0.3186	1.44E-05
ILMN_1707627	TPI1	-0.3896	0	ILMN_1806908	PRKCB1	-0.1506	1.44E-05
ILMN_1766718	LYSMD3	0.2036	0	ILMN_1810235	ATP6V1E2	-0.1406	1.46E-05
ILMN_2304495	PPP1R1B	0.4129	0	ILMN_1719032	LSM3	-0.1817	1.47E-05
ILMN_2206474	TMEM90B	-0.2468	0	ILMN_1724490	PSPC1	-0.1701	1.47E-05
ILMN_1772876	ZNF395	0.3071	0	ILMN_1724544	PPP4R1	0.1076	1.48E-05
ILMN_1658911	LOC647349	-0.3345	0	ILMN_1680703	MRPS15	-0.1139	1.49E-05
ILMN_1771987	SLC44A2	0.3635	0	ILMN_1689059	ZNF329	-0.1536	1.50E-05
ILMN_1779241	CRYM	-0.5026	0	ILMN_2165354	DCLK1	-0.2738	1.50E-05
ILMN_1690282	CRADD	-0.1810	0	ILMN_1739345	C11orf48	-0.1526	1.51E-05
ILMN_1814526	ADD3	0.2436	0	ILMN_2062754	SRA1	-0.1137	1.51E-05
ILMN_1809086	XRN1	0.2251	0	ILMN_2224907	C4orf34	0.1434	1.54E-05
ILMN_1663489	UBR2	0.2207	0	ILMN_2357361	THYN1	-0.1500	1.54E-05
ILMN_1703330	FEM1C	0.3472	0	ILMN_1813489	RAF1	0.1354	1.54E-05
ILMN_2364700	ENSA	-0.5584	0	ILMN_1727073	MEA1	-0.1304	1.55E-05
ILMN_1712577	FAM174A	-0.2811	0	ILMN_1781560	ST3GAL6	-0.1730	1.55E-05
ILMN_1766657	STOM	0.4824	0	ILMN_1744210	SDHA	-0.1831	1.56E-05
ILMN_1693352	MRPL20	-0.2319	0	ILMN_1815479	NOP10	-0.1337	1.56E-05
ILMN_1705871	DDHD2	-0.2373	0	ILMN_1726204	SCRG1	0.3109	1.56E-05
ILMN_2187746	EMX2	0.5860	0	ILMN_1812262	DDR1	0.3220	1.58E-05
ILMN_2175712	NDUFA11	-0.2434	0	ILMN_1713322	C7orf28B	-0.1628	1.61E-05
ILMN_2392635	ABCF1	-0.2020	0	ILMN_1696003	GNAI3	0.1983	1.61E-05
ILMN_1746376	SCARA3	0.5091	0	ILMN_1812477	DOC2A	-0.2723	1.62E-05
ILMN_1751345	AP1S1	-0.4797	0	ILMN_1657139	ADAT1	-0.1522	1.62E-05
ILMN_1726417	MRPL33	-0.3071	0	ILMN_2249473	SPTLC1	0.1177	1.63E-05
ILMN_2184049	COX7B	-0.1823	0	ILMN_1750981	SLC25A26	-0.2440	1.63E-05
ILMN_1758049	NFIA	0.3425	0	ILMN_1653001	CABLES1	0.2487	1.65E-05
ILMN_1782788	CSDA	0.8259	0	ILMN_1773751	HRAS	-0.1626	1.65E-05
ILMN_1764177	JARID2	0.2117	0	ILMN_1780036	WDR1	0.1165	1.65E-05
ILMN_1694799	PIAS2	-0.2435	0	ILMN_1729225	SORCS2	0.2232	1.67E-05
ILMN_1709809	NHP2L1	-0.4337	0	ILMN_2394193	C14orf138	-0.2354	1.67E-05
ILMN_1666409	PSMB6	-0.1920	0	ILMN_1711729	LOC442454	-0.0868	1.69E-05
ILMN_1744442	TTPAL	-0.2760	0	ILMN_2305407	ZBTB16	0.2468	1.69E-05
ILMN_1779264	PSMG1	-0.3506	0	ILMN_1701933	SNCA	-0.2934	1.69E-05

ILMN_1750800	ACO1	0.2577	0	ILMN_1809467	VAMP5	0.2151	1.70E-05
ILMN_1702247	CCNDBP1	-0.2977	0	ILMN_2328378	OSBPL3	-0.2082	1.71E-05
ILMN_1745887	FBXO21	0.1903	0	ILMN_1712075	SYNM	0.1289	1.72E-05
ILMN_3238319	BEND6	-0.5108	0	ILMN_3256325	CYB561D1	-0.1518	1.72E-05
ILMN_1679280	LOC643997	-0.2841	0	ILMN_1722102	ANAPC11	-0.1109	1.74E-05
ILMN_2136971	FABP3	-0.3613	0	ILMN_3237656	LOC730313	0.0746	1.75E-05
ILMN_1656293	GOSR2	-0.2758	0	ILMN_1713846	PPM1H	-0.1453	1.75E-05
ILMN_2393763	ARPC4	-0.2653	0	ILMN_1698733	CNIH2	-0.2302	1.76E-05
ILMN_1888359		0.7314	0	ILMN_1684446	SPAG7	-0.1398	1.76E-05
ILMN_2383975	PRDX5	-0.2211	0	ILMN_1870457		0.1612	1.79E-05
ILMN_1678629	DOCK7	0.3390	0	ILMN_1775327	PKM2	-0.1882	1.80E-05
ILMN_1738642	CMPK1	-0.2454	0	ILMN_1677432	SRGAP1	0.2722	1.80E-05
ILMN_1685678	EEF1B2	-0.4188	0	ILMN_1674128	CWC22	0.1195	1.81E-05
ILMN_1803799	LOC649555	-0.4038	0	ILMN_1673962	NUP205	0.1089	1.82E-05
ILMN_2379788	HIF1A	0.2658	0	ILMN_1783709	RRAGA	-0.1377	1.82E-05
ILMN_1802553	MRPS24	-0.1952	0	ILMN_1677228	TMLHE	0.2515	1.83E-05
ILMN_2358783	ASB3	0.2058	0	ILMN_1783060	SLC25A20	0.1903	1.83E-05
ILMN_1721623	APOO	-0.2511	0	ILMN_1790461	C6orf125	-0.1287	1.84E-05
ILMN_1800573	RPS21	-0.3057	0	ILMN_2330966	PTK2B	0.2422	1.86E-05
ILMN_2232936	UQCRH	-0.2423	0	ILMN_1735199	CIAPIN1	-0.1653	1.87E-05
ILMN_1743049	PWP1	-0.2210	0	ILMN_1719606	LOC644762	-0.2114	1.89E-05
ILMN_2396813	C19orf62	-0.3297	0	ILMN_1657149	C8orf46	-0.1783	1.89E-05
ILMN_1839019		0.3245	0	ILMN_1742124	KIAA1128	-0.1441	1.89E-05
ILMN_2323385	TRIM4	0.2613	0	ILMN_1748911	SNAP23	0.2743	1.91E-05
ILMN_1757497	VGf	-0.4753	0	ILMN_3297455	LOC729082	-0.2782	1.91E-05
ILMN_1791576	CHSY1	0.3963	0	ILMN_2338480	RHOT1	-0.2107	1.92E-05
ILMN_2374683	PTPN13	0.3467	0	ILMN_1786823	ICAM2	0.3456	1.93E-05
ILMN_1797009	F3	0.4928	0	ILMN_1710209	MFSD6	-0.2032	1.97E-05
ILMN_1789999	SLC30A7	0.2202	0	ILMN_1684391	PLOD1	0.2088	1.97E-05
ILMN_2311989	CUTA	-0.2577	0	ILMN_1869109		0.0822	2.00E-05
ILMN_1656718	DEF8	-0.2853	0	ILMN_1680782	PATL1	0.1359	2.04E-05
ILMN_1691559	ELF2	0.2113	0	ILMN_1767475	CERK	-0.1889	2.05E-05
ILMN_1812191	C12orf57	-0.3204	0	ILMN_3237986	MMGT1	-0.1515	2.06E-05
ILMN_1783023	C5orf51	0.2765	0	ILMN_2382127	PPFIA1	0.1295	2.07E-05
ILMN_1661599	DDIT4	0.7711	0	ILMN_2288784	CCDC34	-0.2774	2.09E-05
ILMN_1784287	TGFBR3	0.5102	0	ILMN_1755727	KDM5B	0.1530	2.11E-05
ILMN_3226769	LOC730074	-0.2544	0	ILMN_1738678	C9orf130	0.2047	2.11E-05
ILMN_2373632	IDH3B	-0.3010	0	ILMN_1743373	DLL1	0.3438	2.11E-05
ILMN_1753525	TCEAL7	-0.4397	0	ILMN_1713688	DHX32	0.1477	2.12E-05
ILMN_1679483	INTS10	0.1900	0	ILMN_3213792	LOC439953	-0.1016	2.14E-05
ILMN_1684982	PDK4	0.8638	0	ILMN_1713990	TRIP6	0.2840	2.15E-05
ILMN_1709479	YAP1	0.6367	0	ILMN_3239055	TMEM208	-0.1133	2.16E-05
ILMN_1667257	SDHB	-0.1392	0	ILMN_1724315	LMTK2	-0.1643	2.17E-05
ILMN_1786658	BOLA3	-0.2384	0	ILMN_1798485	ATP6V1E1	-0.1397	2.18E-05
ILMN_1663220	MRPL22	-0.2622	0	ILMN_1659027	SLC2A1	0.3031	2.21E-05
ILMN_1772796	DYNLL2	-0.3028	0	ILMN_1683959	MED13L	0.1632	2.21E-05
ILMN_1676448	WDFY1	0.1840	0	ILMN_1746492	RABL4	-0.1334	2.22E-05
ILMN_1759948	RNF5P1	-0.2010	0	ILMN_1744725	BTBD6	-0.1578	2.22E-05
ILMN_1657796	STMN1	-0.3386	0	ILMN_1760338	LOC643357	-0.2016	2.25E-05
ILMN_1658486	MRPL54	-0.2661	0	ILMN_1759729	NDUFA8	-0.0982	2.26E-05
ILMN_1657862	AHCY	-0.2197	0	ILMN_1806349	SLC6A8	0.2048	2.27E-05
ILMN_3261197	ATP5E	-0.2029	0	ILMN_3244248	TMEM14D	-0.2057	2.28E-05
ILMN_1674778	ATP6V1G2	-0.5945	0	ILMN_1695386	RAD51C	-0.2262	2.28E-05
ILMN_1698732	PALLD	0.5565	0	ILMN_1671314	UXT	-0.1235	2.29E-05
ILMN_1701930	EEF1B2	-0.4258	0	ILMN_1726603	ATP5I	-0.0646	2.31E-05
ILMN_1759453	UQCRB	-0.3456	0	ILMN_1743034	KIF1B	0.2198	2.31E-05
ILMN_1808326	NPAS3	0.4253	0	ILMN_2139035	CASD1	-0.2576	2.32E-05
ILMN_1663751	CYCSL1	-0.3652	0	ILMN_2106658	BLZF1	0.1033	2.32E-05

ILMN_1693136	VTI1B	-0.2132	0	ILMN_1681754	GGH	-0.2249	2.35E-05
ILMN_1766115	PLEKHF2	0.2848	0	ILMN_1735432	ISCU	-0.2105	2.35E-05
ILMN_1813834	PRMT6	-0.2299	0	ILMN_2367215	PRCP	0.2106	2.36E-05
ILMN_1794106	FEZ1	-0.4479	0	ILMN_1711089	DNAJC21	-0.1242	2.39E-05
ILMN_1755077	HEBP2	0.3141	0	ILMN_3237452	C17orf100	-0.1457	2.41E-05
ILMN_2234873	NME2	-0.2560	0	ILMN_1793732	FARS2	-0.1278	2.44E-05
ILMN_1751051	C7orf25	-0.1664	0	ILMN_1679919	ASCC2	0.1851	2.45E-05
ILMN_1773716	MRPL9	-0.1867	0	ILMN_1772521	MTHFD1L	-0.2198	2.45E-05
ILMN_1696183	HBQ1	-0.3882	0	ILMN_3269324	FLJ37644	0.2516	2.46E-05
ILMN_3273065	LOC100130367	0.2219	0	ILMN_3245600	LRRC37B2	0.1233	2.49E-05
ILMN_1766054	ABCA1	0.5272	0	ILMN_1882999		0.1701	2.52E-05
ILMN_1757338	PLSCR4	0.7008	0	ILMN_1699503	UBE2D2	-0.1440	2.53E-05
ILMN_2117330	NDUFB2	-0.2431	0	ILMN_2227385	SLC16A14	-0.2140	2.54E-05
ILMN_1765684	C19orf70	-0.2184	0	ILMN_2094905	COMMD10	-0.2540	2.55E-05
ILMN_1760779	ENSA	-0.5705	0	ILMN_2382126	PPFIA1	0.1182	2.55E-05
ILMN_2054392	PPIL1	-0.2594	0	ILMN_1656913	MDH1	-0.1472	2.55E-05
ILMN_1666471	UQCRQ	-0.1635	0	ILMN_1743476	LOC653829	0.2254	2.56E-05
ILMN_3242459	DCTPP1	-0.2962	0	ILMN_1657683	C1orf198	0.3564	2.58E-05
ILMN_1739325	LOC284023	0.2445	0	ILMN_1792384	HABP4	-0.1991	2.59E-05
ILMN_2229214	STOX1	0.3645	0	ILMN_1658917	SLC1A1	-0.2056	2.61E-05
ILMN_1805466	SOX9	0.7464	0	ILMN_1759818	SORL1	-0.1821	2.62E-05
ILMN_2073604	EBP	-0.2110	0	ILMN_2283597	FAM134B	-0.2847	2.62E-05
ILMN_2134555	KCTD3	0.2561	0	ILMN_2410938	SMOC1	0.2570	2.63E-05
ILMN_2313730	RHOC	0.3218	0	ILMN_1759097	MLLT11	-0.1796	2.65E-05
ILMN_3253456	FNDC3B	0.2513	0	ILMN_1769091	PRCP	0.1754	2.65E-05
ILMN_1701731	AKR1B1	-0.1735	0	ILMN_1656576	ATCAY	-0.3475	2.68E-05
ILMN_1796397	CISD2	-0.2346	0	ILMN_3251467	LRRC58	0.2163	2.69E-05
ILMN_1733412	MGC5457	0.3196	0	ILMN_1749641	FBXO3	-0.2063	2.69E-05
ILMN_2279635	EIF4G2	-0.3434	0	ILMN_3238618	C3orf50	0.1883	2.72E-05
ILMN_1731137	TXNDC9	-0.2325	0	ILMN_1794803	NDP	0.1873	2.72E-05
ILMN_2345837	CLTA	-0.1711	0	ILMN_1692938	PSAT1	0.3599	2.72E-05
ILMN_1662640	C20orf127	0.4159	0	ILMN_1800975	PSME3	-0.1338	2.73E-05
ILMN_1809495	COX8A	-0.2046	0	ILMN_2358733	TAZ	0.1052	2.73E-05
ILMN_3222974	PRKCB	-0.3116	0	ILMN_1736700	ALDOA	-0.3508	2.74E-05
ILMN_1742981	TUBA1A	-0.3469	0	ILMN_1710192	LOC440345	0.2487	2.76E-05
ILMN_3226807	NHP2	-0.2357	0	ILMN_2363273	ZNF226	-0.2174	2.77E-05
ILMN_1652549	DTNA	0.5104	0	ILMN_2383435	PSMD10	-0.1232	2.78E-05
ILMN_1664243	USE1	-0.2351	0	ILMN_1815039	C6orf153	-0.0988	2.82E-05
ILMN_3228822	TMEM194A	0.2428	0	ILMN_1764780	SVOP	-0.2557	2.89E-05
ILMN_1757210	CALML4	0.2365	0	ILMN_1811551	DERA	0.1984	2.90E-05
ILMN_1707727	ANGPTL4	1.0761	0	ILMN_1690695	PEX11A	0.1454	2.90E-05
ILMN_1808591	LOC731049	-0.2260	0	ILMN_3274790	LOC648921	0.1854	2.91E-05
ILMN_1676763	PIPSL	-0.2981	0	ILMN_1706502	EIF2AK2	0.1529	2.92E-05
ILMN_1782439	CNN3	0.4772	0	ILMN_1672121	LOC387856	-0.2867	2.93E-05
ILMN_1739798	C7orf30	-0.2314	0	ILMN_1652722	C14orf2	-0.2420	2.95E-05
ILMN_2316540	MRPL11	-0.2195	0	ILMN_1769720	STAU2	-0.2189	2.96E-05
ILMN_1722559	NEUROD6	-0.6013	0	ILMN_3244176	LOC399959	0.2099	2.97E-05
ILMN_1775743	BTG1	0.3473	0	ILMN_1691436	BLVRA	-0.1401	2.97E-05
ILMN_1725108	SNX25	-0.2347	0	ILMN_1803743	LOC196752	0.1949	2.98E-05
ILMN_1694057	EIF3K	-0.2003	0	ILMN_1805658	LTV1	-0.1187	3.01E-05
ILMN_1760741	NDUFA9	-0.2020	0	ILMN_1681340	C1orf41	-0.1847	3.05E-05
ILMN_3297898	LOC729769	-0.2971	0	ILMN_2160929	FEN1	-0.1686	3.05E-05
ILMN_3235853	S1PR1	0.6430	0	ILMN_1682123	TTC9B	-0.2778	3.08E-05
ILMN_3200330	LOC399988	-0.3598	0	ILMN_1695003	PCSK2	-0.3026	3.08E-05
ILMN_2179018	NDUFAB1	-0.1752	0	ILMN_1656186	SLC41A1	0.1348	3.09E-05
ILMN_1731062	NPY	-0.8491	0	ILMN_1668014	LOC644278	-0.2587	3.12E-05
ILMN_2128750	PTTG1P	0.4083	0	ILMN_1692145	ZNF14	0.0788	3.12E-05
ILMN_1727740	SYNCRIP	-0.2483	0	ILMN_1702759	TMX4	-0.3126	3.18E-05

ILMN_2065690	GRAMD3	0.5380	0	ILMN_2206716	JTB	-0.1076	3.19E-05
ILMN_3236367	IFFO2	0.1935	0	ILMN_2344002	SIP1	-0.1864	3.19E-05
ILMN_1704477	COX5A	-0.1979	0	ILMN_1806408	ACADVL	0.1916	3.19E-05
ILMN_1777318	C9orf64	0.2615	0	ILMN_1697793	SYNJ2BP	0.2095	3.21E-05
ILMN_2175114	KCNS3	-0.4042	0	ILMN_1653718	ZFAND2B	-0.0958	3.23E-05
ILMN_1672589	SEMA4B	0.5078	0	ILMN_1654385	ASB13	-0.1906	3.28E-05
ILMN_1759952	PSMA5	-0.2004	0	ILMN_2144573	CTBS	0.2075	3.28E-05
ILMN_1699603	MRPL12	-0.2476	0	ILMN_1753890	TMEM97	0.1387	3.29E-05
ILMN_1737738	NDUFA12	-0.2156	0	ILMN_1816713		0.1597	3.30E-05
ILMN_2128795	LRIG1	0.5496	0	ILMN_2227573	GSTO1	-0.1231	3.36E-05
ILMN_3280565	LOC389342	-0.4140	0	ILMN_1750876	SLC4A1AP	-0.1826	3.39E-05
ILMN_2401978	STAT3	0.3118	0	ILMN_1753502	IGSF11	0.2562	3.41E-05
ILMN_1702837	PSMD1	-0.1992	0	ILMN_1712298	ANKRD46	-0.1488	3.44E-05
ILMN_1667030	HSBP1	-0.1855	0	ILMN_1745271	EXOSC4	-0.1338	3.45E-05
ILMN_1786015	CTCF	-0.1756	0	ILMN_1753196	PTTG1	-0.1310	3.50E-05
ILMN_1714278	C9orf30	-0.2375	0	ILMN_1660663	DYRK1A	-0.2787	3.50E-05
ILMN_2324056	GNL3	-0.2843	0	ILMN_3225673	LOC730060	0.2174	3.50E-05
ILMN_1684158	GPT2	0.3598	0	ILMN_1686319	USP37	0.1549	3.51E-05
ILMN_2158705	ACYP2	-0.2468	0	ILMN_1726388	ACBD7	0.3452	3.55E-05
ILMN_1727840	SLC35B1	-0.1758	0	ILMN_1737298	MAT2A	0.1721	3.55E-05
ILMN_1660345	NGRN	-0.3694	0	ILMN_1713668	TSNAX	-0.3809	3.55E-05
ILMN_1652394	RAB2A	-0.3058	0	ILMN_1805646	SS18	0.2255	3.58E-05
ILMN_1670606	GABRG1	0.5467	0	ILMN_1770338	TM4SF1	0.4307	3.58E-05
ILMN_1803788	LGALS3	0.5585	0	ILMN_1781680	DAP3	-0.1105	3.61E-05
ILMN_1782050	CEBPD	0.8029	0	ILMN_1810729	UBL3	-0.1151	3.62E-05
ILMN_1797828	DDRKG1	-0.2574	0	ILMN_1744048	LOC652455	-0.2016	3.62E-05
ILMN_1702637	BEX1	-0.3785	0	ILMN_1669206	CNOT1	0.1435	3.64E-05
ILMN_1664014	STOX1	0.3528	0	ILMN_1814333	SERPINI1	-0.2796	3.68E-05
ILMN_1687410	OSBPL11	0.3191	0	ILMN_1744635	IGDCC3	0.1887	3.74E-05
ILMN_1741264	MRPS33	-0.2821	0	ILMN_3240177	LLPH	0.1597	3.75E-05
ILMN_1779381	SEC61A2	-0.2502	0	ILMN_1730658	YTHDF2	-0.1166	3.78E-05
ILMN_2172269	TMEM183B	-0.2586	0	ILMN_3304898	LOC92755	-0.2572	3.79E-05
ILMN_1682857	NDUFAF2	-0.2136	0	ILMN_1702858	ADHFE1	0.2766	3.82E-05
ILMN_1670322	FCHO2	0.2396	0	ILMN_1732555	B4GALT6	-0.3032	3.87E-05
ILMN_2405915	MRPS11	-0.2398	0	ILMN_3300471	LOC730255	0.1110	3.88E-05
ILMN_1731561	ROBO3	0.2905	0	ILMN_1698307	DBNL	-0.1440	3.91E-05
ILMN_2070043	PPM1K	0.2780	0	ILMN_1770623	FAM58A	-0.1405	3.91E-05
ILMN_1744949	RHOBTB3	0.5160	0	ILMN_3294213	LOC401098	0.1557	3.95E-05
ILMN_1682953	PGAM4	-0.4351	0	ILMN_3221865	RCADH5	0.1771	3.98E-05
ILMN_2219712	HMGB2	0.3890	0	ILMN_2387553	PSMA3	-0.1577	4.03E-05
ILMN_2073012	TMEM203	-0.1915	0	ILMN_1784436	KIAA1688	0.1817	4.03E-05
ILMN_1653028	COL4A1	0.5069	0	ILMN_1802205	RHOB	0.2574	4.04E-05
ILMN_2092664	ADSS	-0.2375	0	ILMN_1791728	SLC25A25	-0.1642	4.04E-05
ILMN_2382829	PRDX2	-0.2950	0	ILMN_1692219	RAB11FIP1	0.1955	4.04E-05
ILMN_1786972	SARS	-0.3066	0	ILMN_2088172	POLR2B	-0.2142	4.04E-05
ILMN_3178302	FNDC3B	0.2846	0	ILMN_1669631	GLRB	-0.3199	4.06E-05
ILMN_1706841	PGAM4	-0.3813	0	ILMN_3241626	QRFPR	0.1400	4.07E-05
ILMN_1742578	MKLN1	0.2184	0	ILMN_1730487	CALD1	0.2150	4.08E-05
ILMN_2380771	AKR1A1	-0.1749	0	ILMN_2159730	GABRB1	0.1945	4.12E-05
ILMN_1739854	C15orf29	0.1940	0	ILMN_2186877	FLJ10213	0.1786	4.17E-05
ILMN_1745501	DNALI1	0.4135	0	ILMN_3305938	SGK1	0.4852	4.22E-05
ILMN_1691156	MT1A	0.5867	0	ILMN_3287583	LOC648390	-0.1514	4.25E-05
ILMN_3307025	ZDHHC4	-0.1966	0	ILMN_1655595	SERPINE2	0.1507	4.25E-05
ILMN_1710979	ANKRD39	-0.2001	0	ILMN_1687711	ZNF576	-0.1028	4.29E-05
ILMN_1712673	SASH1	0.3816	0	ILMN_2056551	RBMX2	0.1194	4.30E-05
ILMN_1802251	PTTG1IP	0.4475	0	ILMN_1743097	XRCC6	-0.1318	4.32E-05
ILMN_1654966	SCARA3	0.5440	0	ILMN_2411076	MATR3	-0.2600	4.33E-05
ILMN_1720322	PTS	-0.3970	0	ILMN_2334042	THYN1	-0.1523	4.36E-05

ILMN_1737314	BCL6	0.3880	0	ILMN_3181411	ATL1	-0.1421	4.36E-05
ILMN_1776173	PSMD7	-0.3625	0	ILMN_1707308	IKBKG	-0.1405	4.38E-05
ILMN_1732410	SLC16A9	0.7438	0	ILMN_2225144	EIF4E3	-0.1684	4.39E-05
ILMN_1813604	NDUFB7	-0.2227	0	ILMN_1808824	NEBL	0.1864	4.42E-05
ILMN_1696419	STOM	0.4684	0	ILMN_1670218	EXOSC6	-0.1732	4.45E-05
ILMN_1795826	ATP6VOD1	-0.3383	0	ILMN_3225102	ZNF738	0.1201	4.48E-05
ILMN_1730201	DTNA	0.6457	0	ILMN_3295075	LOC100131531	-0.1218	4.49E-05
ILMN_1651254	LPP	0.3495	0	ILMN_1658883	ARAF	0.1737	4.50E-05
ILMN_1763091	C14orf43	0.2181	0	ILMN_1709124	ANO8	0.1777	4.56E-05
ILMN_1791097	RSBN1	0.2304	0	ILMN_2359601	CAMK2G	-0.1833	4.62E-05
ILMN_1812638	ATP5L	-0.2045	0	ILMN_1660111	UCHL3	-0.1933	4.62E-05
ILMN_2301624	MACF1	0.2477	0	ILMN_1737705	UHRF1BP1L	-0.1696	4.63E-05
ILMN_1695420	CLTA	-0.2425	0	ILMN_2076658	MRPL1	-0.1877	4.65E-05
ILMN_2366714	UCRC	-0.3565	0	ILMN_2081883	IQCK	0.2210	4.69E-05
ILMN_1744023	MGC18216	0.2047	0	ILMN_1689552	FAM63A	0.2049	4.70E-05
ILMN_1658351	FIS1	-0.2026	0	ILMN_1851540		-0.3531	4.79E-05
ILMN_2369924	NDUFB6	-0.2709	0	ILMN_1775444	FLJ12078	0.2007	4.80E-05
ILMN_2139396	IGDCC4	0.5878	0	ILMN_1738272	DHX36	-0.2088	4.80E-05
ILMN_1691131	LSMD1	-0.2353	0	ILMN_3240236	SMCR5	0.2075	4.88E-05
ILMN_1727618	C8orf38	-0.3006	0	ILMN_3240446	ZNF286C	0.1364	4.88E-05
ILMN_1770245	EPB41L5	0.3166	0	ILMN_1776188	MAP1LC3A	-0.1226	4.89E-05
ILMN_1801864	LOC730455	-0.2612	0	ILMN_2411794	PTPRA	0.1469	4.89E-05
ILMN_2184708	LIN7C	0.2940	0	ILMN_1702501	RPS6KA2	0.1550	4.93E-05
ILMN_2378952	GPX4	-0.1218	0	ILMN_1746465	FJX1	-0.1814	4.94E-05
ILMN_2343010	BOLA3	-0.2464	0	ILMN_1761844	ZCCHC17	-0.1315	4.99E-05
ILMN_2365544	NHP2	-0.3152	0	ILMN_2367020	SEC61G	-0.1549	5.01E-05
ILMN_1663640	MAOA	0.4232	0	ILMN_1654016	MRLC2	-0.1089	5.03E-05
ILMN_2077952	GALNTL1	0.2867	0	ILMN_1737947	LSM5	-0.1237	5.04E-05
ILMN_2177965	RPS19BP1	-0.2007	0	ILMN_1678605	CDC123	-0.1444	5.05E-05
ILMN_1660691	RAB31	0.3767	0	ILMN_1880521		0.3466	5.05E-05
ILMN_2411139	FIBP	-0.3088	0	ILMN_1685365	ZNF773	0.1673	5.09E-05
ILMN_1775170	MT1X	1.0886	0	ILMN_1707481	BTBD15	0.1587	5.10E-05
ILMN_1667068	ZC3HAV1	0.3801	0	ILMN_2219618	LOC90586	0.0987	5.12E-05
ILMN_2176037	GNA13	0.4607	0	ILMN_1813246	LOC728554	-0.2726	5.17E-05
ILMN_1666564	LOC652489	-0.2315	0	ILMN_1903914		0.3530	5.19E-05
ILMN_1805750	IFITM3	0.8100	0	ILMN_1691480	LONP2	-0.1293	5.21E-05
ILMN_2054362	SLC25A40	-0.4492	0	ILMN_1744713	PARK7	-0.0979	5.22E-05
ILMN_2071641	KCNK1	-0.3952	0	ILMN_1653203	EFEMP2	0.2367	5.27E-05
ILMN_1655796	3-Mar	0.3949	0	ILMN_1709936	LOC90624	-0.2399	5.28E-05
ILMN_1779401	CHP	-0.2755	0	ILMN_1653793	PDPK1	-0.2600	5.32E-05
ILMN_2381138	SEH1L	-0.3087	0	ILMN_1668582	CRBN	-0.1419	5.36E-05
ILMN_1765578	TIPARP	0.5348	0	ILMN_1654632	RG57BP	-0.4077	5.38E-05
ILMN_2371984	SMAD5	0.3539	0	ILMN_1755383	LRRC1	0.3580	5.43E-05
ILMN_1808196	GSTO1	-0.3032	0	ILMN_1666049	NUP214	0.1316	5.43E-05
ILMN_3251388	TMEM183A	-0.3642	0	ILMN_3289685	LOC645452	0.0730	5.45E-05
ILMN_1681670	SLC25A4	-0.3359	0	ILMN_2198515	ARRDC3	0.2688	5.47E-05
ILMN_2384409	TAC1	-0.4966	0	ILMN_3238845	FAM165B	-0.1552	5.51E-05
ILMN_1746135	PHF23	-0.2086	0	ILMN_2136635	ISCA2	-0.1303	5.51E-05
ILMN_3254984	LOC100129759	-0.2865	0	ILMN_2216852	PGK1	-0.1778	5.56E-05
ILMN_1751439	EMX2	0.5556	0	ILMN_1678710	PHYHIP1L	-0.2153	5.57E-05
ILMN_1785711	NEDD8	-0.3264	0	ILMN_2120273	AP1S2	-0.1347	5.62E-05
ILMN_1773018	CUEDC2	-0.2205	0	ILMN_2411731	HPS5	0.1967	5.63E-05
ILMN_2316173	AP1S1	-0.5251	0	ILMN_1730645	TMEFF2	-0.2017	5.70E-05
ILMN_1682775	EDN1	0.6476	0	ILMN_1662617	PPP2R3C	-0.2010	5.70E-05
ILMN_1771599	PLOD2	0.4470	0	ILMN_2194649	TADA1L	-0.1603	5.86E-05
ILMN_1674941	ANO6	0.2575	0	ILMN_2150112	NRN1	-0.2261	5.93E-05
ILMN_1702447	IGF2BP2	0.4352	0	ILMN_1794967	EIF4ENIF1	-0.1205	6.04E-05
ILMN_1754894	C1orf162	0.4492	0	ILMN_1753467	SAMD4B	0.2102	6.09E-05

ILMN_1738529	BCS1L	-0.1536	0	ILMN_1668484	LRRC47	-0.1274	6.10E-05
ILMN_2096985	ALDH6A1	0.3931	0	ILMN_2190779	PHAX	0.2031	6.13E-05
ILMN_1714158	PON2	0.4644	0	ILMN_1792173	TUBGCP4	-0.1842	6.18E-05
ILMN_2334765	ARMCX3	-0.4873	0	ILMN_2124816	ZNF34	0.1404	6.27E-05
ILMN_2123665	SBF2	0.2191	0	ILMN_1653385	KIF3A	-0.2170	6.30E-05
ILMN_3243142	KAT2B	0.8850	0	ILMN_3200322	LOC387791	-0.1996	6.30E-05
ILMN_2394777	DTNA	0.3493	0	ILMN_2091084	C8orf37	0.0955	6.34E-05
ILMN_1762281	DCTN3	-0.2082	0	ILMN_1780861	LOC653506	0.2648	6.35E-05
ILMN_1659990	C7orf68	-0.3486	0	ILMN_1779886	TBC1D14	0.1324	6.39E-05
ILMN_2043306	EPB41L5	0.2557	0	ILMN_1757106	6-Mar	0.1590	6.41E-05
ILMN_1708672	ACAT2	-0.2995	0	ILMN_2231020	TMEM185B	0.1424	6.43E-05
ILMN_1669362	IGFBP6	-0.2366	0	ILMN_1795170	SLITRK2	0.1816	6.45E-05
ILMN_1701749	UQCRCF5	0.2946	0	ILMN_2371964	MRPS12	-0.1109	6.48E-05
ILMN_1701514	TRAF3IP2	-0.3380	0	ILMN_2413158	PODXL	0.2382	6.50E-05
ILMN_2217809	TMEM126A	0.5998	0	ILMN_3291673	LOC100131452	0.1709	6.54E-05
ILMN_1674551	SMAD5	0.3854	0	ILMN_2112755	HSDL1	-0.1648	6.55E-05
ILMN_1773576	CPNE3	-0.2738	0	ILMN_2210713	COMMD8	-0.1584	6.58E-05
ILMN_1711566	TIMP1	0.7555	0	ILMN_1813400	CBR4	0.1112	6.59E-05
ILMN_1763129	DCTPP1	0.2930	0	ILMN_1658504	CHKA	0.1669	6.63E-05
ILMN_1761131	PECI	0.5449	2.64E-12	ILMN_1792409	AMOT	0.2704	6.70E-05
ILMN_3237956	ZC3H12C	0.3427	2.64E-12	ILMN_3298215	LOC729340	0.1128	6.71E-05
ILMN_1712432	PSMD2	0.3604	2.64E-12	ILMN_3299520	PRKCB	-0.2015	6.86E-05
ILMN_1803988	MCL1	0.5323	2.64E-12	ILMN_2341363	ATP5A1	-0.1467	6.86E-05
ILMN_1781419	C11orf73	-0.2263	2.64E-12	ILMN_2235745	GRIPAP1	0.1423	6.95E-05
ILMN_1659285	PSMG1	0.4188	2.64E-12	ILMN_1783226	SSR2	-0.1303	6.97E-05
ILMN_1671191	UQCRC1	0.7416	2.64E-12	ILMN_1678671	KLHL24	0.1967	7.00E-05
ILMN_1704472	EID2	0.2358	2.64E-12	ILMN_1728049	S100A16	0.2842	7.01E-05
ILMN_1752741	TRIM23	-0.4341	2.64E-12	ILMN_1688490	PTP4A2	0.1943	7.14E-05
ILMN_1659017	C11orf74	-0.2733	2.64E-12	ILMN_2057826	PHF3	0.1425	7.23E-05
ILMN_1751816	MCTS1	-0.2621	2.64E-12	ILMN_1732577	TMEM216	0.2272	7.27E-05
ILMN_1761804	ALDH9A1	-0.2980	2.64E-12	ILMN_1696494	CMTM6	0.1524	7.28E-05
ILMN_1736340	ANGEL2	-0.2276	2.64E-12	ILMN_2074860	RN7SK	0.1939	7.38E-05
ILMN_3307930	RAN	-0.2414	2.64E-12	ILMN_2352293	PRDM10	-0.1809	7.41E-05
ILMN_1672024	ISCA1L	0.3128	2.64E-12	ILMN_1686254	FAM127B	0.1295	7.44E-05
ILMN_1731113	ZBTB43	-0.2459	2.64E-12	ILMN_2391355	STAMBP	-0.1612	7.51E-05
ILMN_2334760	ARMCX3	0.3907	2.64E-12	ILMN_2086417	NDUFV2	-0.1079	7.56E-05
ILMN_1671207	IARS2	-0.3309	2.64E-12	ILMN_2246548	GSTTP2	0.2345	7.59E-05
ILMN_2409395	CCNC	-0.1495	2.64E-12	ILMN_3242551	LOC100130707	-0.1477	7.62E-05
ILMN_1677919	GMPR2	-0.2820	2.64E-12	ILMN_1700024	UST	-0.2095	7.65E-05
ILMN_1790575	METTL13	-0.2732	2.64E-12	ILMN_1738632	PRKAR1A	-0.1680	7.65E-05
ILMN_1669553	UBE2E3	0.2669	2.64E-12	ILMN_1908989		0.1195	7.68E-05
ILMN_1686367	HSPA8	-0.2374	2.64E-12	ILMN_1764709	MAFB	-0.3187	7.76E-05
ILMN_1804851	MRPS17	0.2192	2.64E-12	ILMN_1752213	TMEM60	-0.1091	7.77E-05
ILMN_1743456	ZCCHC14	0.4372	2.64E-12	ILMN_3304022	LOC729102	-0.1587	7.79E-05
ILMN_1667295	VASN	-0.2465	2.64E-12	ILMN_1735347	MCEE	-0.1567	7.80E-05
ILMN_1697418	RBM9	-0.2653	2.64E-12	ILMN_3224758	LOC92755	-0.1848	7.83E-05
ILMN_1654398	RGL1	-0.1914	2.64E-12	ILMN_1745223	CDC42EP4	0.3544	7.87E-05
ILMN_1683120	UNG	-0.2578	2.64E-12	ILMN_2367782	STARD7	-0.1352	7.90E-05
ILMN_1795007	C2orf47	0.3227	2.64E-12	ILMN_1701457	FAHD1	-0.1657	7.91E-05
ILMN_2154671	COX6B1	0.2879	2.64E-12	ILMN_1735402	WDR22	0.1237	7.91E-05
ILMN_1664231	TIMM23	0.2267	2.64E-12	ILMN_3199974	LOC100131787	0.1891	7.91E-05
ILMN_1651433	DCK	0.1703	2.64E-12	ILMN_2323848	PARD6A	-0.1666	7.95E-05
ILMN_1726138	EI24	0.7809	2.64E-12	ILMN_1779639	IRAK1BP1	0.1718	7.96E-05
ILMN_2185984	SASH1	-0.2442	2.64E-12	ILMN_1694810	PANX2	-0.1634	7.98E-05
ILMN_1682783	TUG1	-0.2826	2.64E-12	ILMN_3305273	LOC729779	0.3652	8.01E-05
ILMN_1727813	BRP44	0.4162	2.64E-12	ILMN_1749962	NCAM2	-0.2235	8.04E-05
ILMN_2386205	C21orf33	-0.1668	2.64E-12	ILMN_1798288	MOBK12C	0.2384	8.12E-05
ILMN_1793360	APITD1	1.1574	2.64E-12	ILMN_2215545	C3orf26	-0.2135	8.16E-05

ILMN_2211780	SLC25A4	0.3719	2.64E-12	ILMN_1706873	RPL34	-0.1855	8.30E-05
ILMN_1664369	DHTKD1	-0.1888	2.64E-12	ILMN_1754727	GPRASP2	-0.2321	8.31E-05
ILMN_1736103	ITPR2	0.2585	2.64E-12	ILMN_1680403	SSR4	-0.1208	8.35E-05
ILMN_1898682		-0.3635	2.64E-12	ILMN_1700276	C14orf100	-0.1966	8.36E-05
ILMN_2343624	METTL13	-0.6877	2.64E-12	ILMN_2403006	TJP1	0.2588	8.39E-05
ILMN_1652512	C2CD2	-0.2219	2.64E-12	ILMN_1882590		0.2511	8.43E-05
ILMN_2350607	C20orf7	0.3135	2.64E-12	ILMN_2067656	CCND2	-0.1538	8.47E-05
ILMN_2388800	PPAP2B	-0.2066	2.64E-12	ILMN_1679796	TOMM20	-0.2726	8.49E-05
ILMN_2331163	CUL4A	0.1753	2.64E-12	ILMN_1697024	LOC730432	0.1673	8.51E-05
ILMN_2358784	ASB3	-0.2358	5.28E-12	ILMN_1734542	OVGP1	0.2412	8.51E-05
ILMN_1814074	PHKA2	-0.2230	5.28E-12	ILMN_2354547	TUSC3	-0.3345	8.52E-05
ILMN_2205350	C6orf66	-0.2855	5.28E-12	ILMN_1678546	PEX11B	-0.1690	8.52E-05
ILMN_1791792	C12orf5	-0.2676	5.28E-12	ILMN_2377459	PSCD2	-0.1560	8.53E-05
ILMN_2087692	CYBRD1	-0.2086	5.28E-12	ILMN_1727183	ZNF763	0.1375	8.60E-05
ILMN_1656537	SNRPN	-0.2036	5.28E-12	ILMN_1674768	LOC220686	-0.2300	8.63E-05
ILMN_1699265	TNFRSF10B	-0.4147	5.28E-12	ILMN_2399264	6-Sep	-0.2048	8.68E-05
ILMN_1774432	DTD1	-0.2295	5.28E-12	ILMN_3275936	LOC100133277	0.2316	8.72E-05
ILMN_2074773	KCNK6	0.2441	5.28E-12	ILMN_1815578	ZNF223	0.1706	8.76E-05
ILMN_3281039	LOC642909	-0.6629	5.28E-12	ILMN_2073543	C15orf63	0.1238	8.77E-05
ILMN_2056479	TXNL2	-0.2879	5.28E-12	ILMN_2050761	EIF4E	-0.1536	8.77E-05
ILMN_1809344	BTBD10	0.3779	5.28E-12	ILMN_2366041	ITM2C	0.1566	8.86E-05
ILMN_1670272	LRP10	-0.2074	5.28E-12	ILMN_1691575	SNX2	-0.1090	8.86E-05
ILMN_1679195	C20orf24	0.5735	5.28E-12	ILMN_1663160	ZNF337	0.1655	9.02E-05
ILMN_1660602	C1orf43	0.5186	5.28E-12	ILMN_1659316	HEPACAM	0.2858	9.04E-05
ILMN_1700025	LOC732007	-0.3499	5.28E-12	ILMN_1735502	FAM181B	0.3123	9.07E-05
ILMN_1801464	ANKFY1	-0.3137	5.28E-12	ILMN_1734317	DPF2	0.1578	9.10E-05
ILMN_1700306	OCIAD2	0.1979	5.28E-12	ILMN_1692707	C2orf79	-0.1014	9.12E-05
ILMN_2353642	ATP6V0B	-0.2748	5.28E-12	ILMN_2399896	SEC31A	0.1149	9.16E-05
ILMN_2068747	OAT	-0.3896	5.28E-12	ILMN_3201975	LOC392285	-0.2140	9.20E-05
ILMN_1693014	CEBPB	0.2036	7.92E-12	ILMN_1815878	C11orf59	-0.1018	9.23E-05
ILMN_2238928	RAD51C	0.4129	7.92E-12	ILMN_2276290	RALGPS2	0.3450	9.30E-05
ILMN_1786718	NDUFV1	-0.2468	7.92E-12	ILMN_2232712	MYO10	0.3176	9.39E-05
ILMN_1675024	C1orf165	0.3071	7.92E-12	ILMN_1778668	TAGLN	0.4706	9.55E-05
ILMN_1676523	CCDC91	-0.3345	7.92E-12	ILMN_1730118	ZNF644	0.1613	9.57E-05
ILMN_1707342	LRIG1	0.3635	7.92E-12	ILMN_3251298	THNSL1	-0.1746	9.62E-05
ILMN_1680091	POP7	-0.5026	7.92E-12	ILMN_2379560	CDC14B	0.1916	9.65E-05
ILMN_1671039	GALNT3	-0.1810	7.92E-12	ILMN_2276758	POFUT1	0.0918	9.68E-05
ILMN_2174884	XPO7	0.2436	7.92E-12	ILMN_1702320	JAKMIP2	-0.1419	9.73E-05
ILMN_1733956	IARS	0.2251	7.92E-12	ILMN_3304200	ZNF385B	-0.3098	9.76E-05
ILMN_1739840	LRRRC8A	0.2207	7.92E-12	ILMN_2134381	C14orf85	0.0799	9.77E-05
ILMN_1802355	RBM18	0.3472	7.92E-12	ILMN_1795243	LOC220433	0.1194	9.82E-05
ILMN_1794068	RFX4	-0.5584	7.92E-12	ILMN_1754795	FAT1	0.2839	9.87E-05
ILMN_1767766	PRDX2	-0.2811	7.92E-12	ILMN_2106656	BLZF1	0.1876	9.93E-05
ILMN_1705985	PIGA	0.4824	7.92E-12	ILMN_1758398	GUK1	-0.1005	0.000100487
ILMN_1693740	LOC647834	-0.2319	7.92E-12	ILMN_1680453	ITM2C	0.1792	0.000100883
ILMN_2413084	HSPA8	-0.2373	1.06E-11	ILMN_2126423	ZNF480	0.1674	0.000100902
ILMN_1669394	EI24	0.5860	1.06E-11	ILMN_1744147	CEBPZ	0.1160	0.000101040
ILMN_2405592	TMEM93	-0.2434	1.06E-11	ILMN_1859207		0.1508	0.000101789
ILMN_1691425	LDOC1L	-0.2020	1.06E-11	ILMN_1740938	APOE	0.3620	0.000103644
ILMN_1654322	ATP1B3	0.5091	1.06E-11	ILMN_1713749	CORO1A	-0.2312	0.000103837
ILMN_1783636	COX6A1	-0.4797	1.06E-11	ILMN_1716922	DHX16	-0.0915	0.000104027
ILMN_1801616	EMP1	-0.3071	1.06E-11	ILMN_1716362	MPPED1	-0.2016	0.000104090
ILMN_2283325	GPR177	-0.1823	1.06E-11	ILMN_1763007	HIAT1	-0.2136	0.000104242
ILMN_1795865	FGFRL1	0.3425	1.06E-11	ILMN_1696330	GUF1	-0.1832	0.000104305
ILMN_2408430	LARGE	0.8259	1.06E-11	ILMN_1712687	PAK2	0.1694	0.000104479
ILMN_2097421	MRPL51	0.2117	1.06E-11	ILMN_1803774	STK16	-0.1602	0.000106662
ILMN_2408683	PPAP2B	-0.2435	1.06E-11	ILMN_1807243	PRPF18	-0.1214	0.000107518
ILMN_1721022	SHC1	-0.4337	1.06E-11	ILMN_1690342	LTA4H	0.0801	0.000109151

ILMN_1790819	LOC728556	-0.1920	1.06E-11	ILMN_3232282	LOC100130445	0.0803	0.000109430
ILMN_1692276	GGPS1	-0.2760	1.32E-11	ILMN_1847965		-0.1581	0.000110016
ILMN_1680687	NSF	-0.3506	1.32E-11	ILMN_1758087	TAOK1	0.2273	0.000111085
ILMN_1705032	SEH1L	0.2577	1.32E-11	ILMN_1693220	AKAP11	-0.2243	0.000111686
ILMN_1713756	GLUD1	-0.2977	1.32E-11	ILMN_1785756	LOC731314	0.1712	0.000112784
ILMN_1782273	N4BP2	0.1903	1.32E-11	ILMN_2223350	C13orf1	-0.2022	0.000112918
ILMN_1789905	PAX6	-0.5108	1.32E-11	ILMN_1663002	STOML2	-0.0997	0.000113520
ILMN_1721741	ATPBD1B	-0.2841	1.32E-11	ILMN_1733746	REEP1	-0.2184	0.000113709
ILMN_1699644	3-Mar	-0.3613	1.32E-11	ILMN_1721027	KCNK4	-0.2297	0.000115838
ILMN_1761456	ALG13	-0.2758	1.32E-11	ILMN_1679984	ZCCHC12	-0.3790	0.000116231
ILMN_1672149	CHCHD1	-0.2653	1.32E-11	ILMN_1735438	GPM6B	0.2266	0.000116311
ILMN_2327090	MAEA	0.7314	1.58E-11	ILMN_1800739	SPINT2	-0.1984	0.000117979
ILMN_1753885	YTHDF1	-0.2211	1.58E-11	ILMN_1751016	LONRF2	-0.3152	0.000118400
ILMN_1758906	GNA13	0.3390	1.58E-11	ILMN_1656682	AZIN1	-0.1551	0.000118932
ILMN_1742167	TUBA1C	-0.2454	1.58E-11	ILMN_1680154	MAP1B	-0.4808	0.000121295
ILMN_2390338	UBE2E3	-0.4188	1.58E-11	ILMN_3236377	C2orf69	0.0929	0.000122839
ILMN_2130838	UTP11L	-0.4038	1.58E-11	ILMN_2073307	IL10	0.1189	0.000125408
ILMN_1657332	CCDC85B	0.2658	1.58E-11	ILMN_2068435	ZNF700	0.1066	0.000125415
ILMN_1751956	MGST3	-0.1952	1.58E-11	ILMN_1674034	H2AFY	-0.1594	0.000126731
ILMN_1766411	AP1S2	0.2058	1.85E-11	ILMN_1685012	EAF1	-0.1758	0.000128812
ILMN_1756402	TMEM177	-0.2511	1.85E-11	ILMN_1761812	DMD	0.1989	0.000128945
ILMN_1729208	NGFRAP1	-0.3057	1.85E-11	ILMN_3251545	CHMP5	-0.1041	0.000129865
ILMN_1708934	ADM	-0.2423	1.85E-11	ILMN_1740500	TSPYL4	-0.2966	0.000130737
ILMN_2224444	SNX25	-0.2210	1.85E-11	ILMN_1792092	ZCCHC8	0.1786	0.000131224
ILMN_1651699	EPS8	-0.3297	1.85E-11	ILMN_1691151	CHKA	0.1527	0.000132495
ILMN_1658053	DYNLRB1	0.3245	1.85E-11	ILMN_2079285	ATP5L	-0.1651	0.000132538
ILMN_3277872	LOC644684	0.2613	2.11E-11	ILMN_1685496	RGS7	-0.2449	0.000132640
ILMN_1738589	MGLL	-0.4753	2.37E-11	ILMN_1714709	OLFM1	-0.0848	0.000133342
ILMN_2357855	NTRK2	0.3963	2.37E-11	ILMN_2065606	TOMM40L	-0.1494	0.000133503
ILMN_1667925	PDCL3	0.3467	2.37E-11	ILMN_3208715	LOC440063	-0.2578	0.000133902
ILMN_2401769	PHF14	0.4928	2.37E-11	ILMN_1739496	PRRX1	0.2283	0.000134044
ILMN_1810782	SH3KBP1	0.2202	2.37E-11	ILMN_2365595	GMPR2	-0.1305	0.000134902
ILMN_1766195	ZNF558	-0.2577	2.37E-11	ILMN_1775380	SMOX	0.2498	0.000136228
ILMN_1683273	SNAPC5	-0.2853	2.37E-11	ILMN_1667081	CCND2	-0.1873	0.000136590
ILMN_1719695	NFKBIZ	0.2113	2.64E-11	ILMN_1720438	LOC653147	-0.1380	0.000138205
ILMN_1737396	PSMD14	-0.3204	2.64E-11	ILMN_1815552	NTAN1	-0.1420	0.000138704
ILMN_1766408	CBFB	0.2765	2.64E-11	ILMN_1784554	LOC647389	0.1825	0.000138725
ILMN_2222074	PTPN12	0.7711	2.64E-11	ILMN_2305544	DBI	0.1701	0.000139586
ILMN_2056032	CD99	0.5102	2.64E-11	ILMN_1682781	TEAD2	0.2140	0.000139626
ILMN_2387599	C20orf24	-0.2544	2.64E-11	ILMN_1789095	BMPR2	-0.2174	0.000141293
ILMN_1660787	SUCLA2	-0.3010	2.64E-11	ILMN_1806456	C14orf45	-0.1748	0.000141465
ILMN_1717855	PFDN1	-0.4397	2.64E-11	ILMN_1651964	ABCC5	0.1508	0.000141599
ILMN_2180582	PNPLA8	0.1900	2.64E-11	ILMN_1691572	TST	0.3421	0.000141736
ILMN_1792456	CCDC104	0.8638	2.90E-11	ILMN_1681543	RHBDD1	0.1626	0.000142490
ILMN_1676728	DLK2	0.6367	2.90E-11	ILMN_1726693	GTF2H1	-0.1782	0.000143794
ILMN_1845086		-0.1392	2.90E-11	ILMN_3282983	LOC100132992	0.1421	0.000143884
ILMN_1769299	MTMR11	-0.2384	2.90E-11	ILMN_1736670	PPP1R3C	0.3812	0.000143894
ILMN_1666372	ATP5H	-0.2622	2.90E-11	ILMN_1810559	RHOQ	0.1716	0.000145032
ILMN_1661945	C14orf156	-0.3028	2.90E-11	ILMN_1659975	C1orf216	-0.1694	0.000146420
ILMN_2240597	TCEA2	0.1840	2.90E-11	ILMN_2402272	TCEAL8	-0.1372	0.000147778
ILMN_1764794	PSMB2	-0.2010	3.17E-11	ILMN_1777721	MAPRE1	0.2287	0.000148182
ILMN_1675448	ZFP36L1	-0.3386	3.17E-11	ILMN_1724376	C2orf30	-0.1730	0.000148598
ILMN_1698259	TMEM100	-0.2661	3.17E-11	ILMN_1714397	CRYL1	0.2336	0.000148717
ILMN_2384591	HN1	-0.2197	3.17E-11	ILMN_1703697	LANCL1	-0.2081	0.000149198
ILMN_1671932	SAMM50	-0.2029	3.17E-11	ILMN_1719694	LOC729446	0.1469	0.000149590
ILMN_1768962	AKAP8L	-0.5945	3.17E-11	ILMN_1684402	STXBP5	-0.2369	0.000149998
ILMN_2219556	ISCA1	0.5565	3.17E-11	ILMN_1750518	THOC4	-0.1549	0.000150717
ILMN_1712305	CYBRD1	-0.4258	3.43E-11	ILMN_1660549	GPR177	0.1994	0.000151390

ILMN_1849013		-0.3456	3.43E-11	ILMN_2397750	IVNS1ABP	-0.2120	0.000151737
ILMN_1718977	GADD45B	0.4253	3.43E-11	ILMN_1866216		0.2605	0.000151985
ILMN_2168992	FBXO30	-0.3652	3.43E-11	ILMN_1702177	GLO1	-0.1929	0.000152317
ILMN_1700419	HSPC171	-0.2132	3.43E-11	ILMN_1704531	PTGR1	-0.2629	0.000153430
ILMN_1785284	ALDH6A1	0.2848	3.43E-11	ILMN_2225537	PTGR1	-0.2564	0.000154639
ILMN_1721758	ID4	-0.2299	3.69E-11	ILMN_1676563	HTRA1	0.2657	0.000155880
ILMN_1790008	CYP2U1	-0.4479	3.69E-11	ILMN_1693438	FBXL12	0.1038	0.000155933
ILMN_2157421	STUB1	0.3141	3.69E-11	ILMN_1690524	VAMP7	-0.1566	0.000158325
ILMN_1674302	PPAT	-0.2560	3.69E-11	ILMN_2104784	FKBP3	-0.1522	0.000158482
ILMN_1655117	WDR19	-0.1664	3.69E-11	ILMN_1811921	CSRP1	0.3313	0.000159423
ILMN_1738816	FOXO1	-0.1867	3.69E-11	ILMN_1747598	PPP1R11	-0.1088	0.000161080
ILMN_1738796	PITPNC1	-0.3882	3.96E-11	ILMN_1679051	PTPRR	-0.2489	0.000161409
ILMN_3218538	LOC345645	0.2219	4.22E-11	ILMN_1683044	PPP1R2	-0.2196	0.000162065
ILMN_1667050	PRPS1	0.5272	4.22E-11	ILMN_2340065	UBL5	-0.0897	0.000163166
ILMN_1750429	MKNK1	0.7008	4.22E-11	ILMN_1804834	C6orf130	-0.1309	0.000164093
ILMN_1734353	GPX4	-0.2431	4.49E-11	ILMN_2163819	KIF21B	-0.2290	0.000165035
ILMN_1791890	SPON1	-0.2184	4.49E-11	ILMN_1715635	ATP6V0E1	0.2513	0.000167351
ILMN_1756126	STUB1	-0.5705	4.49E-11	ILMN_1692962	CTDSP2	0.2243	0.000167398
ILMN_2054554	DTWD2	-0.2594	4.75E-11	ILMN_1747119	FBXO46	0.1305	0.000167909
ILMN_1675131	PIH1D1	-0.1635	4.75E-11	ILMN_1671777	FGF13	-0.2899	0.000167937
ILMN_3247462	GLRX3	-0.2962	5.01E-11	ILMN_1737833	ATN1	0.1620	0.000167975
ILMN_2348050	MRPL21	0.2445	5.01E-11	ILMN_1767139	NDUFA13	-0.1175	0.000168674
ILMN_2184789	HSCB	0.3645	5.01E-11	ILMN_2160764	HBP1	0.1724	0.000169946
ILMN_2094856	RANBP3L	0.7464	5.01E-11	ILMN_2074258	BARD1	0.1982	0.000170223
ILMN_1701293	COX7A2	-0.2110	5.28E-11	ILMN_1699768	CBLN4	-0.3160	0.000170910
ILMN_2057220	HRSP12	0.2561	5.28E-11	ILMN_1898404	CACNA1C	0.1928	0.000171654
ILMN_3268564	C19orf60	0.3218	5.54E-11	ILMN_1654151	COX6C	-0.0898	0.000171849
ILMN_1688127	LOC341457	0.2513	5.54E-11	ILMN_1798256	UPP1	0.1747	0.000172134
ILMN_1734476	KIF2A	-0.1735	5.54E-11	ILMN_1682034	HEY2	0.3192	0.000173553
ILMN_2066020	TCEB1	-0.2346	5.80E-11	ILMN_1729175	FBXO3	-0.2358	0.000174260
ILMN_1806266	RAP1GDS1	0.3196	5.80E-11	ILMN_1809456	CNTFR	0.2933	0.000174822
ILMN_1730303	KBTBD7	-0.3434	5.80E-11	ILMN_1754600	FNBP1L	0.1323	0.000176000
ILMN_1651259	FLJ36848	-0.2325	6.07E-11	ILMN_1689142	UBE1C	-0.1626	0.000177212
ILMN_1675268	LRP4	-0.1711	6.33E-11	ILMN_1737462	OXR1	-0.1451	0.000177456
ILMN_1701655	SLC24A6	0.4159	6.33E-11	ILMN_3242038	GPX8	0.1902	0.000179564
ILMN_1695430	ddb1	-0.2046	6.33E-11	ILMN_3287996	LOC400446	0.1569	0.000182345
ILMN_1770515	UBE2V2	-0.3116	6.33E-11	ILMN_2338038	AK3L1	0.1799	0.000182698
ILMN_1749792	SORBS1	-0.3469	6.60E-11	ILMN_1785175	SWAP70	0.1564	0.000183862
ILMN_1807710	HINT1	-0.2357	6.60E-11	ILMN_1685472	LRRTM4	-0.2609	0.000184851
ILMN_1727992	FEZ1	0.5104	6.86E-11	ILMN_2286514	GTPBP8	-0.1786	0.000186931
ILMN_1801119	BCL2	-0.2351	6.86E-11	ILMN_1704452	BCL9	0.1328	0.000188278
ILMN_1726755	COPS4	0.2428	6.86E-11	ILMN_1838313		-0.1515	0.000189444
ILMN_1687785	PPA2	0.2365	7.12E-11	ILMN_1658835	CAV2	0.1930	0.000190240
ILMN_1740351	KIAA0174	1.0761	7.12E-11	ILMN_1680781	C14orf135	0.1332	0.000190874
ILMN_2373177	PANK2	-0.2260	7.39E-11	ILMN_1757388	OCEL1	-0.1830	0.000192809
ILMN_2406468	NFU1	-0.2981	7.39E-11	ILMN_1654939	TMED2	-0.1117	0.000193920
ILMN_1813817	MRPL55	0.4772	7.39E-11	ILMN_2117809	DUXAP3	0.0792	0.000194628
ILMN_1685369	SLU7	-0.2314	7.65E-11	ILMN_1727923	ZNF140	0.1085	0.000195673
ILMN_2177156	SOX2	-0.2195	7.65E-11	ILMN_1653220	PITPNM1	-0.1967	0.000196514
ILMN_1809400	FAM49B	-0.6013	7.65E-11	ILMN_1732053	SNRNP70	0.1023	0.000198351
ILMN_1652540	RELL2	0.3473	7.92E-11	ILMN_1731358	ZNF532	0.1188	0.000198415
ILMN_1688011	UPF1	-0.2347	8.18E-11	ILMN_1685140	PRRC1	0.1523	0.000198464
ILMN_1745779	TCTEX1D2	-0.2003	8.71E-11	ILMN_1705346	NBEA	-0.2763	0.000200210
ILMN_1843198		-0.2020	8.97E-11	ILMN_1726743	MRPS30	-0.2267	0.000200416
ILMN_2315979	LBH	-0.2971	8.97E-11	ILMN_1652533	DKFZp434K191	0.2102	0.000202617
ILMN_1662905	NME1-NME2	0.6430	9.23E-11	ILMN_1784783	NME5	-0.1924	0.000203094
ILMN_1673138	ZBTB33	-0.3598	1.00E-10	ILMN_3216365	LOC100131096	0.2090	0.000203201
ILMN_2044293	KBTBD7	-0.1752	1.00E-10	ILMN_3245625	RFX7	0.1187	0.000203352

ILMN_1656463	C11orf73	-0.8491	1.03E-10	ILMN_1811327	MRPL27	-0.1583	0.000204595
ILMN_3291709	LOC402175	0.4083	1.06E-10	ILMN_1704537	PHGDH	0.2810	0.000210035
ILMN_2322375	MAFF	-0.2483	1.06E-10	ILMN_1795429	VCL	0.2049	0.000210099
ILMN_1661595	C1orf53	0.5380	1.08E-10	ILMN_3241169	C3orf75	-0.1173	0.000218660
ILMN_1693421	RPN2	0.1935	1.08E-10	ILMN_1688346	ZNF800	0.1415	0.000219083
ILMN_1773154	NFKBIA	-0.1979	1.08E-10	ILMN_1738093	TMEM118	-0.1551	0.000219171
ILMN_1798874	TMEM85	0.2615	1.11E-10	ILMN_1749011	NECAP2	0.2021	0.000220094
ILMN_1690982	DDT	-0.4042	1.16E-10	ILMN_1695362	ZNF32	-0.0874	0.000220181
ILMN_2112417	PGAM1	0.5078	1.16E-10	ILMN_1671583	MKRN1	0.0838	0.000221740
ILMN_1741780	DUSP28	-0.2004	1.16E-10	ILMN_3248403	LOC100132717	-0.1527	0.000224831
ILMN_2348093	ATP5J	-0.2476	1.16E-10	ILMN_1713496	ST3GAL5	-0.1004	0.000226413
ILMN_1789596	ETV6	-0.2156	1.21E-10	ILMN_1800871	RAB6A	-0.1501	0.000226717
ILMN_1698323	PLEKHB2	0.5496	1.21E-10	ILMN_1803953	LOC388789	-0.1156	0.000229821
ILMN_2249920	FYN	-0.4140	1.21E-10	ILMN_2046470	DAAM1	0.1321	0.000232049
ILMN_1751079	TAP1	0.3118	1.21E-10	ILMN_1717674	PEPD	-0.1371	0.000234227
ILMN_2292123	COL4A3BP	-0.1992	1.27E-10	ILMN_3187852	KIAA1310	0.1214	0.000234760
ILMN_1719344	LOC730820	-0.1855	1.29E-10	ILMN_2169152	SRGN	0.4176	0.000236974
ILMN_2148847	AKIRIN2	-0.1756	1.29E-10	ILMN_1701958	DLG1	-0.1778	0.000237010
ILMN_1685441	ASAP3	-0.2375	1.32E-10	ILMN_1713732	ABL1	0.1927	0.000238775
ILMN_1657446	C1orf57	-0.2843	1.35E-10	ILMN_1696420	BRD7	-0.1368	0.000239227
ILMN_1719072	LOC643011	0.3598	1.35E-10	ILMN_1790508	KCNA5	0.2297	0.000241692
ILMN_1733377	FASTKD5	-0.2468	1.35E-10	ILMN_1782609	STAG2	0.1956	0.000242045
ILMN_2152402	BAT5	-0.1758	1.37E-10	ILMN_3236713	SNHG1	0.2068	0.000242134
ILMN_1662426	AP2S1	-0.3694	1.42E-10	ILMN_1734010	C10orf118	-0.1683	0.000242253
ILMN_2354381	PON2	-0.3058	1.42E-10	ILMN_1654851	FAM134A	-0.1494	0.000242704
ILMN_2043816	ARPC5L	0.5467	1.42E-10	ILMN_1656868	LOC23117	0.1500	0.000243555
ILMN_2179063	DDHD2	0.5585	1.45E-10	ILMN_3204275	LOC100131859	-0.1456	0.000243910
ILMN_1681829	ZNF606	0.8029	1.45E-10	ILMN_1694305	SMS	-0.1564	0.000247181
ILMN_1654542	C5orf21	-0.2574	1.45E-10	ILMN_1810225	KIAA1530	0.1953	0.000248660
ILMN_1778444	FKBP5	-0.3785	1.53E-10	ILMN_1701507	EHHADH	0.1428	0.000249489
ILMN_2129161	LRRC32	0.3528	1.56E-10	ILMN_2094587	USP8	0.1114	0.000250813
ILMN_2283388	C20orf24	0.3191	1.58E-10	ILMN_1682658	EPM2AIP1	0.1561	0.000250937
ILMN_1755221	LMAN2L	-0.2821	1.64E-10	ILMN_2339955	NR4A2	-0.4344	0.000251579
ILMN_1749709	NDUFB11	-0.2502	1.66E-10	ILMN_1695404	LY6E	-0.1532	0.000256493
ILMN_1776260	LOC653505	-0.2586	1.69E-10	ILMN_1696843	LOC613037	0.1855	0.000259817
ILMN_2345015	PTGES2	-0.2136	1.69E-10	ILMN_2360415	PRNP	-0.1951	0.000260644
ILMN_1757384	RAN	0.2396	1.69E-10	ILMN_1668721	CCND3	0.1295	0.000266256
ILMN_1666178	TP53I13	-0.2398	1.72E-10	ILMN_1788701	PSIP1	0.1002	0.000267192
ILMN_1785286	SOC5	0.2905	1.74E-10	ILMN_1700232	FBXO30	0.2259	0.000268031
ILMN_1737635	RAD1	0.2780	1.79E-10	ILMN_2344007	SIP1	-0.1445	0.000269475
ILMN_2228873	STARD3NL	0.5160	1.79E-10	ILMN_1670000	DCAF6	-0.2089	0.000269853
ILMN_1784447	PLCE1	-0.4351	1.85E-10	ILMN_1805725	B4GALNT1	-0.1945	0.000270545
ILMN_1809245	PITPNB	0.3890	1.87E-10	ILMN_1704291	LOC645317	-0.2466	0.000271372
ILMN_1763460	NHP2L1	-0.1915	1.90E-10	ILMN_1795893	TMEM167B	0.1148	0.000273975
ILMN_3249618	LOC100133477	0.5069	1.90E-10	ILMN_1702806	PDCL3	-0.1082	0.000275110
ILMN_3226814	LOC729646	-0.2375	1.90E-10	ILMN_1723467	ITGB1	0.1961	0.000276046
ILMN_1806473	BEX5	-0.2950	1.98E-10	ILMN_1912662		0.1327	0.000278285
ILMN_2058251	VIM	-0.3066	1.98E-10	ILMN_1694240	MAP2K1	-0.2428	0.000279984
ILMN_2226955	VOPP1	0.2846	2.06E-10	ILMN_1780698	ZFYVE19	-0.1158	0.000283482
ILMN_1798189	COX7C	-0.3813	2.08E-10	ILMN_1658494	C13orf15	0.3071	0.000284140
ILMN_1728845	SMARCD1	0.2184	2.14E-10	ILMN_1658800	BRPF3	-0.0922	0.000284792
ILMN_1756779	CLTC	-0.1749	2.14E-10	ILMN_1680378	RBM45	-0.0942	0.000284916
ILMN_2066088	C1orf64	0.1940	2.16E-10	ILMN_1746883	SAT2	-0.1050	0.000285314
ILMN_1760088	CCKBR	0.4135	2.19E-10	ILMN_1775762	GNAI2	0.1345	0.000285333
ILMN_1766851	TMEM126B	0.5867	2.19E-10	ILMN_2399036	SEPN1	0.1718	0.000286003
ILMN_1704024	TMEM160	-0.1966	2.24E-10	ILMN_1657619	DNAJB14	-0.2555	0.000286847
ILMN_2407482	ITPA	-0.2001	2.27E-10	ILMN_2120210	RCAN2	-0.1286	0.000291697
ILMN_1804656	C12orf62	0.3816	2.27E-10	ILMN_1743582	NUDT22	-0.1144	0.000291707

ILMN_1741133	NME1	0.4475	2.30E-10	ILMN_3237907	EIF2B3	-0.1104	0.000292453
ILMN_2197030	ZFYVE21	0.5440	2.40E-10	ILMN_2322747	ARHGAP5	0.1473	0.000292961
ILMN_1723978	LGALS1	-0.3970	2.40E-10	ILMN_3246900	LOC92249	0.1617	0.000293104
ILMN_1726901	KLC1	0.3880	2.48E-10	ILMN_1713746	SCAND2	0.1214	0.000293969
ILMN_1686388	LOC644330	-0.3625	2.59E-10	ILMN_1733453	LOC284988	0.1896	0.000293990
ILMN_1680727	GLRX2	0.7438	2.61E-10	ILMN_2166384	IPO5	-0.2323	0.000294812
ILMN_2368773	FAM3C	-0.2227	2.64E-10	ILMN_1766405	GOLM1	0.1324	0.000296657
ILMN_3247895	LOC728188	0.4684	2.64E-10	ILMN_1666713	LYPLA1	-0.1844	0.000299689
ILMN_2112580	FCGR3A	-0.3383	2.69E-10	ILMN_1653367	TAF12	-0.0922	0.000303533
ILMN_1777895	LRRC37B	0.6457	2.72E-10	ILMN_2169761	CPNE8	0.1793	0.000304618
ILMN_1653504	EDG1	0.3495	2.74E-10	ILMN_1731783	ATP1A1	-0.1903	0.000307594
ILMN_2044927	RNF5	0.2181	2.74E-10	ILMN_1683817	UBE2Q2	0.0972	0.000308536
ILMN_1669669	KCMF1	0.2304	2.82E-10	ILMN_2041327	MRPL37	-0.1264	0.000309836
ILMN_1860288		-0.2045	2.82E-10	ILMN_1721818	CLDN10	0.4956	0.000316999
ILMN_1784207	C1orf128	0.2477	2.90E-10	ILMN_2410909	AKT1	0.1739	0.000318817
ILMN_1671392	KCNF1	-0.2425	2.90E-10	ILMN_3242993	ZFR2	0.2325	0.000324098
ILMN_1660000	SNURF	-0.3565	2.93E-10	ILMN_1682368	LRWD1	-0.1204	0.000326327
ILMN_3214256	LOC128192	0.2047	2.96E-10	ILMN_1675038	PRMT2	-0.1168	0.000330222
ILMN_2094166	CHMP5	-0.2026	3.19E-10	ILMN_1801156	RLF	0.1363	0.000330397
ILMN_3251415	RBM43	-0.2709	3.22E-10	ILMN_2324375	CHCHD7	-0.2097	0.000330779
ILMN_1795856	LOC644935	0.5878	3.32E-10	ILMN_1702407	SPIN1	-0.2761	0.000331252
ILMN_1700880	LOC648399	-0.2353	3.43E-10	ILMN_1683026	PSMB10	-0.1205	0.000332270
ILMN_1777449	IFT74	-0.3006	3.48E-10	ILMN_1741599	MEMO1	-0.1142	0.000333237
ILMN_1742887	LOC645058	0.3166	3.54E-10	ILMN_1740716	RBM26	-0.1462	0.000334036
ILMN_1775943	BRMS1L	-0.2612	3.59E-10	ILMN_1719039	UBE2G1	-0.1319	0.000334704
ILMN_1813938	CHCHD4	0.2940	3.59E-10	ILMN_1787186	NOV	-0.2603	0.000334873
ILMN_1695959	C21orf63	-0.1218	3.67E-10	ILMN_2162367	DMC1	0.0718	0.000334918
ILMN_1744628	FDX1L	-0.2464	3.67E-10	ILMN_1747353	KIF27	0.1818	0.000335470
ILMN_2064655	CXorf40A	-0.3152	3.69E-10	ILMN_2148193	MPPED2	-0.2051	0.000339140
ILMN_1768110	ZAK	0.4232	3.93E-10	ILMN_2373106	DMD	0.1897	0.000339262
ILMN_1764271	NXPH1	0.2867	3.93E-10	ILMN_2325234	PQBP1	-0.1231	0.000339849
ILMN_1787378	ADD3	-0.2007	4.01E-10	ILMN_1673305	RHOC	0.2019	0.000341893
ILMN_1665887	WDR61	0.3767	4.14E-10	ILMN_3215461	LOC100131989	0.1834	0.000344464
ILMN_1742456	OSTF1	-0.3088	4.14E-10	ILMN_1703132	LYRM2	-0.1598	0.000344846
ILMN_3240117	AIDA	1.0886	4.17E-10	ILMN_3296943	LOC100131096	0.1767	0.000345371
ILMN_1698605	TMEM43	0.3801	4.33E-10	ILMN_2390974	DNAJB2	0.1796	0.000346323
ILMN_2350634	EFEMP1	0.4607	4.33E-10	ILMN_1736730	LRRC16	0.2127	0.000348126
ILMN_2364110	GBA	-0.2315	4.49E-10	ILMN_1708016	C20orf108	0.1440	0.000349584
ILMN_1798061	ZFYVE26	0.8100	4.49E-10	ILMN_3239113	LOC144438	0.1210	0.000355001
ILMN_2277099	YWHAB	-0.4492	4.54E-10	ILMN_1707571	GABRA5	-0.3740	0.000356648
ILMN_1794038	FAM49A	-0.3952	4.64E-10	ILMN_3198367	LOC646347	-0.1589	0.000356656
ILMN_1738558	RGS20	0.3949	4.67E-10	ILMN_1677402	LOC387763	0.3996	0.000356706
ILMN_2381758	G3BP2	-0.2755	4.72E-10	ILMN_1658717	DEPDC5	-0.1032	0.000359560
ILMN_1772644	EML3	-0.3087	4.75E-10	ILMN_2299612	TMEM150A	0.1444	0.000360383
ILMN_1785107	NXT2	0.5348	4.75E-10	ILMN_1765520	MTIF2	-0.1157	0.000366296
ILMN_1693334	P4HA1	0.3539	4.80E-10	ILMN_1874362		0.1402	0.000368426
ILMN_1703844	DYNC1LI1	-0.3032	4.85E-10	ILMN_3242758	FAM181B	0.2821	0.000370704
ILMN_1697448	TXNIP	-0.3642	4.99E-10	ILMN_2317658	SLC3A2	0.1842	0.000371508
ILMN_1750373	KAL1	-0.3359	4.99E-10	ILMN_2307883	ATP5J2	-0.0966	0.000372984
ILMN_1658679	YJEFN3	-0.4966	5.28E-10	ILMN_1758731	CYP2J2	0.3275	0.000377232
ILMN_1784299	C19orf43	-0.2086	5.33E-10	ILMN_1720829	ZFP36	0.6222	0.000381106
ILMN_2311548	PTRH2	-0.2865	5.38E-10	ILMN_1664855	PPP1R14C	-0.2376	0.000385019
ILMN_1703718	CCT7	0.5556	5.38E-10	ILMN_1728298	SBK1	-0.2099	0.000385231
ILMN_2333594	SUMO2	-0.3264	5.46E-10	ILMN_2225318	SMS	-0.1604	0.000387779
ILMN_1705213	TMBIM1	-0.2205	5.46E-10	ILMN_2117904	ZNF22	0.1379	0.000389662
ILMN_1661366	PGAM1	-0.5251	5.54E-10	ILMN_1664010	ELF1	0.2813	0.000390626
ILMN_2059294	RTCD1	0.6476	5.54E-10	ILMN_3272378	EZR	0.2353	0.000394048
ILMN_1731616	DCLK1	0.4470	5.67E-10	ILMN_2128967	C11orf1	-0.1553	0.000394250

ILMN_1678423	SPA17	0.2575	5.75E-10	ILMN_2373779	COPS8	-0.1673	0.000396434
ILMN_1809478	SSBP1	0.4352	6.07E-10	ILMN_1764494	ATP5A1	-0.0892	0.000396649
ILMN_1673944	MANBAL	0.4492	6.10E-10	ILMN_1722698	RCHY1	-0.2178	0.000398937
ILMN_3251436	DENND4C	-0.1536	6.10E-10	ILMN_1724040	ANKRD57	0.2254	0.000400058
ILMN_1704383	TRIM37	0.3931	6.20E-10	ILMN_2124155	ATP11B	0.1470	0.000401270
ILMN_2336186	LCMT1	0.4644	6.33E-10	ILMN_1746029	SPATS2	-0.1748	0.000402343
ILMN_2136177	CNOT6	-0.4873	6.39E-10	ILMN_2215382	DDX51	0.1033	0.000403780
ILMN_1733176	LIMS1	0.2191	6.46E-10	ILMN_1713529	SEMA6A	0.2342	0.000407505
ILMN_3261439	LOC100128098	0.8850	6.49E-10	ILMN_1719256	CKS1B	-0.1676	0.000409979
ILMN_1759359	BTF3L4	0.3493	6.49E-10	ILMN_1718815	SLTM	-0.2257	0.000411748
ILMN_1761058	ACAD11	-0.2082	6.68E-10	ILMN_2351638	BEX4	-0.1935	0.000411904
ILMN_1777061	ZSWIM6	-0.3486	6.81E-10	ILMN_1724480	AXIN2	0.1361	0.000413772
ILMN_2227968	NTHL1	0.2557	6.89E-10	ILMN_3236680	LOC100134393	0.2918	0.000414114
ILMN_1667994	AMD1	-0.2995	7.31E-10	ILMN_1748884	TOB2	0.1895	0.000414654
ILMN_1686135	CCDC45	-0.2366	7.60E-10	ILMN_2205050	PRKX	0.1466	0.000421989
ILMN_3304555	LOC728324	0.2946	7.60E-10	ILMN_2389151	UGP2	-0.1888	0.000424448
ILMN_1680196	LAPTM4B	-0.3380	7.63E-10	ILMN_1727574	ZNF827	0.1746	0.000426172
ILMN_1694539	MAP3K6	0.5998	7.73E-10	ILMN_2379130	IRAK1	-0.1610	0.000428699
ILMN_1748481	TMEM199	0.3854	7.86E-10	ILMN_1757262	ZBTB5	0.1118	0.000430480
ILMN_1772286	OCIAD2	-0.2738	7.86E-10	ILMN_1690921	STAT2	0.1438	0.000436489
ILMN_2399893	RPS24	0.7555	8.02E-10	ILMN_1741869	WDR47	-0.2669	0.000436852
ILMN_3252941	LOC100127918	0.2930	8.05E-10	ILMN_1701877	AXL	0.3417	0.000439089
ILMN_1715647	VANGL2	0.5449	8.07E-10	ILMN_1686152	GGA2	0.1455	0.000440104
ILMN_1666933	ASH2L	0.3427	8.18E-10	ILMN_1712918	NQO2	-0.2267	0.000440172
ILMN_2216157	GNA12	0.3604	8.26E-10	ILMN_2414399	NME1	-0.1706	0.000443780
ILMN_3237177	FAM175A	0.5323	8.47E-10	ILMN_1660186	SYF2	0.1107	0.000450962
ILMN_1782538	VIM	-0.2263	8.58E-10	ILMN_3234384	LOC728953	0.1556	0.000451873
ILMN_2351611	UBQLN1	0.4188	8.60E-10	ILMN_2206645	ECD	-0.1106	0.000453631
ILMN_1716895	RPA3	0.7416	8.71E-10	ILMN_1699383	POLR2J4	0.1655	0.000454678
ILMN_1752478	DHRS3	0.2358	8.84E-10	ILMN_1748797	GRB2	-0.2179	0.000455901
ILMN_1774387	ZHX3	-0.4341	8.94E-10	ILMN_1672947	CAST	0.1463	0.000465012
ILMN_2173611	MT1E	-0.2733	8.97E-10	ILMN_1681798	6-Sep	-0.1686	0.000466728
ILMN_1812312	NDUFS4	-0.2621	9.66E-10	ILMN_1744308	DHX33	0.0986	0.000472977
ILMN_1730416	CYCS	-0.2980	9.76E-10	ILMN_1663605	RNF123	-0.1314	0.000474319
ILMN_1784753	PAIP2	-0.2276	1.01E-09	ILMN_1666221	ANKRD19	0.2373	0.000478108
ILMN_3239871	LOC643896	-0.2414	1.01E-09	ILMN_1795383	RPUSD3	-0.1645	0.000481550
ILMN_2085722	ING2	0.3128	1.01E-09	ILMN_2153466	FAM50B	-0.1310	0.000482139
ILMN_1738552	SLC1A3	-0.2459	1.03E-09	ILMN_1798587	ARHGEF7	-0.2599	0.000485160
ILMN_2341793	CCT7	0.3907	1.04E-09	ILMN_1915783		0.1598	0.000485595
ILMN_1652207	COX4I1	-0.3309	1.06E-09	ILMN_1666670	RBX1	-0.0834	0.000493070
ILMN_1738652	BAD	-0.1495	1.07E-09	ILMN_1730888	ZNF680	0.2273	0.000494611
ILMN_1655906	FBXW7	-0.2820	1.07E-09	ILMN_1660451	STARD13	0.1916	0.000498362
ILMN_2224486	C3orf14	-0.2732	1.09E-09	ILMN_1665280	SPCS1	-0.1050	0.000504576
ILMN_1714854	MEAF6	0.2669	1.14E-09	ILMN_1811648	DCAKD	0.1409	0.000506141
ILMN_2206554	SLC35F5	-0.2374	1.16E-09	ILMN_1720088	SFRS12	0.1385	0.000507115
ILMN_3244019	LOC647886	0.2192	1.19E-09	ILMN_2312296	PCBP2	0.1092	0.000508611
ILMN_3233239	LOC731789	0.4372	1.24E-09	ILMN_1736562	TRIM39	0.1102	0.000511692
ILMN_1791726	TUBB3	-0.2465	1.26E-09	ILMN_1712430	ATP5G1	-0.2076	0.000511861
ILMN_3282321	LOC643336	-0.2653	1.27E-09	ILMN_1718610	ARHGAP17	0.1632	0.000514320
ILMN_1659659	MAGEH1	-0.1914	1.28E-09	ILMN_1724966	FLJ30092	0.2444	0.000522437
ILMN_1757408	ZNF256	-0.2578	1.29E-09	ILMN_2324002	CALD1	0.1947	0.000528955
ILMN_2405684	BIRC3	0.3227	1.31E-09	ILMN_1651504	FAM193A	0.1362	0.000529382
ILMN_1676719	LOC644330	0.2879	1.32E-09	ILMN_1788689	PHIP	0.1139	0.000546765
ILMN_1659327	LOC283683	0.2267	1.36E-09	ILMN_1718297	EML4	0.0999	0.000547136
ILMN_2263054	FEZ1	0.1703	1.36E-09	ILMN_1738482	CEP27	0.1686	0.000548890
ILMN_1754421	NDUFAF1	0.7809	1.39E-09	ILMN_1713892	C4orf34	-0.1371	0.000549326
ILMN_1704619	VPS29	-0.2442	1.41E-09	ILMN_1782954	HIP2	-0.1485	0.000550376
ILMN_1769702	GPAA1	-0.2826	1.42E-09	ILMN_1707506	YTHDC1	0.1090	0.000557114

ILMN_1801090	KRT222	0.4162	1.44E-09	ILMN_2122511	CCBE1	0.1215	0.000565518
ILMN_2372379	MGA	-0.1668	1.45E-09	ILMN_1655827	COPS2	-0.1852	0.000566455
ILMN_1760849	NETO2	1.1574	1.48E-09	ILMN_1651987	C6orf129	-0.1446	0.000571308
ILMN_2400219	SRI	0.3719	1.50E-09	ILMN_1772703	OTUD6B	-0.1382	0.000571877
ILMN_1766916	RPAP3	-0.1888	1.51E-09	ILMN_1777765	C12orf10	-0.1726	0.000574906
ILMN_1697652	PLEKHB2	0.2585	1.54E-09	ILMN_1778173	AK3	0.2167	0.000575084
ILMN_2243516	C11orf63	-0.3635	1.56E-09	ILMN_1676548	BZW2	-0.1905	0.000575253
ILMN_1805028	THOC7	-0.6877	1.62E-09	ILMN_3307221	NAV2	0.1389	0.000577403
ILMN_1671693	C18orf10	-0.2219	1.62E-09	ILMN_2194828	C16orf53	0.1464	0.000580126
ILMN_2391522	MRPL47	0.3135	1.64E-09	ILMN_3243568	LOC100131835	0.1833	0.000593571
ILMN_3226045	LOC728533	-0.2066	1.67E-09	ILMN_1678403	TMEM178	-0.2136	0.000594665
ILMN_1699525	SRI	0.1753	1.70E-09	ILMN_2143822	ZNF148	0.1907	0.000602608
ILMN_1800612	VBP1	-0.2358	1.70E-09	ILMN_1671452	MRPL44	-0.1449	0.000603385
ILMN_3236259	PPIAL4A	-0.2230	1.71E-09	ILMN_1782685	LOC652672	-0.1422	0.000603469
ILMN_2052790	NONO	-0.2855	1.72E-09	ILMN_1757631	DBNDD1	-0.2191	0.000604489
ILMN_1798602	PCF11	-0.2676	1.72E-09	ILMN_3238785	SNHG9	0.1946	0.000605223
ILMN_1741997	SNRPC	-0.2086	1.74E-09	ILMN_1804945	ZNF667	-0.2313	0.000605234
ILMN_1811754	NDUFB10	-0.2036	1.74E-09	ILMN_1687315	RXRA	0.1877	0.000606601
ILMN_1688622	UBQLN1	-0.4147	1.77E-09	ILMN_3235637	LOC100128288	0.1143	0.000608500
ILMN_2081335	C7orf44	-0.2295	1.78E-09	ILMN_1652072	MGC42105	0.1736	0.000617354
ILMN_3235006	LOC728105	0.2441	1.78E-09	ILMN_1734991	PPM1B	0.2499	0.000618750
ILMN_1651557	KDEL2	-0.6629	1.79E-09	ILMN_1651513	SKIV2L2	-0.1288	0.000621504
ILMN_1727087	GJA1	-0.2879	1.91E-09	ILMN_3268165	LOC100128353	-0.1111	0.000623124
ILMN_1716988	OPN3	0.3779	1.91E-09	ILMN_1798104	GRIN2A	-0.2675	0.000632450
ILMN_1669252	CUL2	-0.2074	1.94E-09	ILMN_1764619	FLJ45244	0.1520	0.000637758
ILMN_2129388	FAM190B	0.5735	1.95E-09	ILMN_2134110	SELK	0.1333	0.000640817
ILMN_2344956	ACP1	0.5186	1.96E-09	ILMN_1713706	ZNF786	0.1799	0.000650725
ILMN_3233388	RELL1	-0.3499	1.99E-09	ILMN_1695706	H3F3B	0.2247	0.000654530
ILMN_2395728	HNRPUL1	-0.3137	2.01E-09	ILMN_3218292	LOC202781	0.1238	0.000654765
ILMN_3228639	LOC728324	0.1979	2.01E-09	ILMN_1745148	ZNFX1	0.1368	0.000656272
ILMN_1770803	BNIP2	-0.2748	2.02E-09	ILMN_1788254	PGAM5	-0.1623	0.000663112
ILMN_2233878	SERF1B	-0.3896	2.03E-09	ILMN_2371825	AGL	0.1554	0.000664890
ILMN_1766165	SNCA	0.2036	2.04E-09	ILMN_1786697	TRIM9	-0.1581	0.000669645
ILMN_2231911	AUH	0.4129	2.05E-09	ILMN_1658464	GTF3A	-0.0957	0.000679408
ILMN_1772722	MRPS33	-0.2468	2.05E-09	ILMN_1767263	LOC158301	0.1517	0.000680599
ILMN_1778796	ADSS	0.3071	2.07E-09	ILMN_1763386	BID	-0.1448	0.000686483
ILMN_1682812	C21orf33	-0.3345	2.08E-09	ILMN_2181892	BEX2	-0.1394	0.000687502
ILMN_1751760	BCAS2	0.3635	2.09E-09	ILMN_1677824	RAB4A	-0.1486	0.000689236
ILMN_1761858	MID1	-0.5026	2.13E-09	ILMN_1748650	MRPL45	-0.1330	0.000689830
ILMN_2138589	MERTK	-0.1810	2.22E-09	ILMN_1747183	GXYLT1	0.1214	0.000690067
ILMN_1777411	ATP1A2	0.2436	2.24E-09	ILMN_3243351	LOC646214	0.1648	0.000702906
ILMN_2129234	TMEM47	0.2251	2.25E-09	ILMN_2362858	PILRA	0.1644	0.000706995
ILMN_1723522	APOLD1	0.2207	2.29E-09	ILMN_2399310	MLLT10	0.1011	0.000708314
ILMN_1828967		0.3472	2.31E-09	ILMN_1717337	7-Mar	0.1165	0.000716850
ILMN_2344216	STX2	-0.5584	2.34E-09	ILMN_3202024	LOC392437	0.1643	0.000717866
ILMN_1744822	BECN1	-0.2811	2.38E-09	ILMN_2227495	ZNF549	0.0641	0.000719672
ILMN_1802157	THOC1	0.4824	2.45E-09	ILMN_2183772	CCDC121	0.1889	0.000719986
ILMN_1756352	MAPBP1P	-0.2319	2.50E-09	ILMN_2322552	NCKAP1	-0.2559	0.000721910
ILMN_1730347	CCDC115	-0.2373	2.50E-09	ILMN_1724497	ABI2	-0.1532	0.000734274
ILMN_1695827	PPP1CA	0.5860	2.53E-09	ILMN_2180606	NAT13	-0.1698	0.000736005
ILMN_1715698	MGC71993	-0.2434	2.61E-09	ILMN_1669259	ANKRD49	0.0962	0.000736669
ILMN_2170353	PTPLB	-0.2020	2.69E-09	ILMN_1680132	CADM1	0.2432	0.000746196
ILMN_1663512	COX5B	0.5091	2.77E-09	ILMN_2394132	PRO1853	0.1768	0.000748453
ILMN_1732534	CHMP5	-0.4797	2.78E-09	ILMN_1729165	TCEAL6	-0.2572	0.000749701
ILMN_1664153	SLC30A5	-0.3071	2.81E-09	ILMN_1733927	TCEB2	-0.0818	0.000750565
ILMN_2104924	C21orf70	-0.1823	2.86E-09	ILMN_2319825	ACYP1	-0.1932	0.000753571
ILMN_1713143	MRPL3	0.3425	2.89E-09	ILMN_1775423	C10orf88	-0.1450	0.000775663
ILMN_1669633	ACP1	0.8259	2.90E-09	ILMN_1763704	RGS11	0.1794	0.000776707

ILMN_2342554	TAGLN3	0.2117	2.98E-09	ILMN_1796417	ASNS	-0.1593	0.000777875
ILMN_1663379	FBXL15	-0.2435	2.99E-09	ILMN_1686645	UTP14C	-0.1306	0.000780259
ILMN_2105253	PTGR2	-0.4337	3.00E-09	ILMN_1762436	UBB	-0.1422	0.000781843
ILMN_2340565	ATP2C1	-0.1920	3.01E-09	ILMN_1696643	TLN1	0.1407	0.000803577
ILMN_2399300	NAV2	-0.2760	3.04E-09	ILMN_2306189	MAGED1	-0.1925	0.000805863
ILMN_1808404	RHBDF1	-0.3506	3.14E-09	ILMN_1654289	ELK1	0.2477	0.000809780
ILMN_2101832	LAPTM4B	0.2577	3.15E-09	ILMN_2055156	PAG1	0.1318	0.000811900
ILMN_1653599	ATP5D	-0.2977	3.17E-09	ILMN_1814557	TRPS1	0.1625	0.000814538
ILMN_1721391	ATP6VOB	0.1903	3.21E-09	ILMN_3240943	LOC100133772	0.1244	0.000815535
ILMN_1797684	PDCD2	-0.5108	3.37E-09	ILMN_1677765	LRP8	-0.1637	0.000820870
ILMN_2307455	UBE2A	-0.2841	3.44E-09	ILMN_1693004	C20orf117	0.1876	0.000821829
ILMN_1779584	UTP18	-0.3613	3.50E-09	ILMN_1745005	GGCT	-0.2015	0.000823200
ILMN_1698770	C5orf33	-0.2758	3.55E-09	ILMN_3270972	ASAP2	-0.1451	0.000828079
ILMN_1712943	CCK	-0.2653	3.58E-09	ILMN_2404385	REPIN1	0.1186	0.000832598
ILMN_2262901	RUFY3	0.7314	3.64E-09	ILMN_1651735	TGOLN2	-0.1351	0.000847116
ILMN_1720838	DECR1	-0.2211	3.65E-09	ILMN_2106931	PPP1R15B	0.1411	0.000847217
ILMN_3260070	LOC100128266	0.3390	3.67E-09	ILMN_1727287	PHF20L1	0.1735	0.000848567
ILMN_1671554	LPIN1	-0.2454	3.69E-09	ILMN_2324574	RALGAPA1	0.0911	0.000857283
ILMN_2058512	PSMA2	-0.4188	3.70E-09	ILMN_2363165	TACC2	-0.1829	0.000862338
ILMN_1810604	ELMOD1	-0.4038	3.74E-09	ILMN_1675695	PDS5B	-0.1569	0.000867103
ILMN_1792837	CIAO1	0.2658	3.76E-09	ILMN_2151739	CAT	0.3070	0.000871223
ILMN_1813207	MRPS9	-0.1952	3.88E-09	ILMN_2170930	STRC	0.2171	0.000877202
ILMN_2180371	C12orf24	0.2058	3.97E-09	ILMN_2209578	CTGLF3	0.1157	0.000879300
ILMN_1807662	IGF2R	-0.2511	4.01E-09	ILMN_3256868	LOC100129585	-0.1384	0.000894157
ILMN_1655316	PSMC6	-0.3057	4.02E-09	ILMN_1859007		0.1240	0.000896858
ILMN_1748291	C1orf55	-0.2423	4.07E-09	ILMN_1728197	CLDN5	0.3369	0.000898492
ILMN_1784602	CDKN1A	-0.2210	4.16E-09	ILMN_1675939	IFNGR1	0.2043	0.000899509
ILMN_2052598	ARMC10	-0.3297	4.29E-09	ILMN_1761120	TM2D3	-0.1515	0.000899892
ILMN_1758213	GPAM	0.3245	4.30E-09	ILMN_1663493	C7orf28B	-0.1672	0.000904163
ILMN_1691942	CCNI	0.2613	4.31E-09	ILMN_1728810	NDUFS1	-0.2062	0.000909066
ILMN_2117223	ROD1	-0.4753	4.40E-09	ILMN_1701213	PIP4K2B	-0.1394	0.000909575
ILMN_1762741	GTDC1	0.3963	4.46E-09	ILMN_1755369	RAB3A	-0.1301	0.000910213
ILMN_3187324	CNRIPI	0.3467	4.50E-09	ILMN_1743352	TBCC	-0.1332	0.000915292
ILMN_1662232	DCTN2	0.4928	4.63E-09	ILMN_2384536	PECI	0.2040	0.000916295
ILMN_1764207	RPRD1A	0.2202	4.66E-09	ILMN_1746368	SELT	-0.1159	0.000924795
ILMN_1773389	PLTP	-0.2577	4.79E-09	ILMN_1689747	NOL8	0.1164	0.000933999
ILMN_1773427	KANK1	-0.2853	4.80E-09	ILMN_1775011	NOL10	0.1347	0.000961116
ILMN_2410516	PPM1A	0.2113	4.89E-09	ILMN_1697629	PLA2G4B	0.1624	0.000967530
ILMN_2352245	RASSF6	-0.3204	5.03E-09	ILMN_1807556	LOC146177	0.1458	0.000970123
ILMN_2062468	IGFBP7	0.2765	5.09E-09	ILMN_2309446	RBBP6	0.0938	0.000971271
ILMN_1743445	FAM107A	0.7711	5.12E-09	ILMN_1691927	BTBD1	-0.2349	0.000972885
ILMN_1736002	COP55	0.5102	5.31E-09	ILMN_2217212	ZNF564	0.1194	0.000978483
ILMN_2380740	MTO1	-0.2544	5.37E-09	ILMN_3208014	LOC100131866	0.1501	0.000980014
ILMN_2319344	APEX1	-0.3010	5.43E-09	ILMN_1756806	MCL1	0.1805	0.000992830
ILMN_1720422	G3BP2	-0.4397	5.47E-09	ILMN_1672662	SLC20A1	-0.1191	0.001004370
ILMN_2228180	MSRA	0.1900	5.57E-09	ILMN_2381121	UQCC	-0.1700	0.001013068
ILMN_1761801	LOC147804	0.8638	5.69E-09	ILMN_2102960	KIAA1370	0.1562	0.001018575
ILMN_1654268	HMGB2	0.6367	5.84E-09	ILMN_1806809	ZNF189	0.1751	0.001022026
ILMN_1773369	MRPL48	-0.1392	5.85E-09	ILMN_1771964	GSTA4	-0.1431	0.001030659
ILMN_1781151	ARMC8	-0.2384	5.97E-09	ILMN_2215989	NEFM	-0.2336	0.001031177
ILMN_1693311	TMBIM6	-0.2622	5.99E-09	ILMN_1658992	DPM1	-0.1528	0.001039538
ILMN_2200915	RIPPLY2	-0.3028	6.01E-09	ILMN_1742025	OLFM1	-0.0835	0.001045071
ILMN_2234229	PRMT6	0.1840	6.02E-09	ILMN_1798654	MCM6	0.1482	0.001055060
ILMN_1805996	SIN3A	-0.2010	6.03E-09	ILMN_1775182	GSR	-0.1135	0.001058268
ILMN_3237679	PTAR1	-0.3386	6.06E-09	ILMN_1721669	IDH3B	-0.1407	0.001064179
ILMN_1777261	FAM3C	-0.2661	6.07E-09	ILMN_1662963	PSD2	0.2708	0.001066570
ILMN_1750961	TM6SF1	-0.2197	6.13E-09	ILMN_2413264	SOC54	0.1498	0.001072388
ILMN_1756572	COQ2	-0.2029	6.17E-09	ILMN_1741017	PIP4K2B	-0.1948	0.001073257

ILMN_2399769	GPR177	-0.5945	6.30E-09	ILMN_1682326	PCP4	-0.2247	0.001073395
ILMN_1690352	ADO	0.5565	6.43E-09	ILMN_1658639	SLC46A3	0.1300	0.001076910
ILMN_3304130	LOC729236	-0.4258	6.55E-09	ILMN_3239135	LOC100132391	0.0903	0.001077005
ILMN_3285162	LOC100131541	-0.3456	6.56E-09	ILMN_3251393	TCEAL6	-0.2629	0.001077812
ILMN_1696708	C14orf166	0.4253	6.62E-09	ILMN_1659727	CDAN1	0.1285	0.001080556
ILMN_2178855	GPAM	-0.3652	6.74E-09	ILMN_3238048	LOC730324	-0.1402	0.001083395
ILMN_2119945	NDUFB3	-0.2132	6.76E-09	ILMN_1813975	ADI1	0.2636	0.001088468
ILMN_1767612	BBS2	0.2848	6.87E-09	ILMN_3239653	RAX2	0.1840	0.001089129
ILMN_3239181	ITPRIP	-0.2299	6.90E-09	ILMN_1798395	PIGH	-0.2015	0.001090278
ILMN_1710216	AVEN	-0.4479	6.96E-09	ILMN_3231550	LOC100131718	0.1334	0.001093126
ILMN_1778202	FLJ40722	0.3141	7.07E-09	ILMN_1803925	MTMR3	0.1312	0.001098612
ILMN_1745841	KIAA0492	-0.2560	7.09E-09	ILMN_2300396	COMMD5	-0.1166	0.001100582
ILMN_1695868	PRICKLE4	-0.1664	7.14E-09	ILMN_1745607	A2M	-0.2548	0.001102353
ILMN_1697567	TPM3	-0.1867	7.24E-09	ILMN_2389376	WDR23	0.1135	0.001105911
ILMN_1674236	HSPB1	-0.3882	7.32E-09	ILMN_1719622	RABEP1	-0.1425	0.001106032
ILMN_2311518	TROVE2	0.2219	7.34E-09	ILMN_3221790	LOC729123	-0.1443	0.001108972
ILMN_1708936	EXOSC3	0.5272	7.37E-09	ILMN_2377862	RAB6A	-0.1518	0.001109194
ILMN_1772929	ATP5J	0.7008	7.48E-09	ILMN_2243308	ACVR1B	0.1358	0.001112989
ILMN_3187425	LOC100127975	-0.2431	7.50E-09	ILMN_2113738	C8orf45	0.0953	0.001118906
ILMN_2363489	BRE	-0.2184	7.88E-09	ILMN_1690049	NGDN	-0.1559	0.001125808
ILMN_1682428	C1orf59	-0.5705	8.45E-09	ILMN_2146389	MEGF10	0.3468	0.001135810
ILMN_3294134	LOC389765	-0.2594	8.50E-09	ILMN_1682727	JAZF1	-0.2165	0.001147183
ILMN_1759325	C16orf91	-0.1635	8.54E-09	ILMN_1736548	PHACTR4	0.2038	0.001149903
ILMN_1669788	NUDT14	-0.2962	8.70E-09	ILMN_1654541	ATP6V1G2	-0.1501	0.001155333
ILMN_1676616	PTPRZ1	0.2445	8.81E-09	ILMN_1695941	NECAB1	-0.2550	0.001156474
ILMN_1814465	UBE2G1	0.3645	8.83E-09	ILMN_1725787	RFX1	0.1741	0.001157935
ILMN_2105033	PLDN	0.7464	9.00E-09	ILMN_2401906	CDAN1	0.0585	0.001164249
ILMN_1709094	LIFR	-0.2110	9.02E-09	ILMN_2274775	SLC44A4	0.0559	0.001165940
ILMN_2346573	PSME3	0.2561	9.24E-09	ILMN_2041293	SQLE	-0.2083	0.001174375
ILMN_1739083	SIRT1	0.3218	9.32E-09	ILMN_1737535	TAF4	0.1531	0.001174407
ILMN_1782890	SLC25A3	0.2513	9.32E-09	ILMN_1813264	ZMAT1	0.1865	0.001176041
ILMN_3187283	LOC100128460	-0.1735	9.40E-09	ILMN_3278157	LOC653156	-0.1484	0.001176118
ILMN_1725705	CLPP	-0.2346	9.41E-09	ILMN_1724139	TMEM123	0.3104	0.001183288
ILMN_1797534	RIOK1	0.3196	9.67E-09	ILMN_1666364	COQ10A	-0.1259	0.001204720
ILMN_3228037	LOC729389	-0.3434	9.67E-09	ILMN_1691946	FAM173B	-0.1237	0.001206735
ILMN_2116075	TRUB2	-0.2325	9.72E-09	ILMN_1654493	LOC649169	-0.1044	0.001211678
ILMN_1722953	USP47	-0.1711	9.88E-09	ILMN_1680925	SLC9A3R1	0.2939	0.001212636
ILMN_3281594	LOC646093	0.4159	1.01E-08	ILMN_2196569	NUP93	-0.1150	0.001213915
ILMN_2318685	ABHD12	-0.2046	1.01E-08	ILMN_2337740	TULP4	-0.1755	0.001223882
ILMN_1774066	TMEM141	-0.3116	1.03E-08	ILMN_1745110	LAPTM4A	0.1396	0.001233768
ILMN_1763852	ACACB	-0.3469	1.04E-08	ILMN_3290100	LOC645157	0.1192	0.001240129
ILMN_2280911	VPS41	-0.2357	1.04E-08	ILMN_2311537	HMGAI	-0.1559	0.001258230
ILMN_1660193	ZNF529	0.5104	1.05E-08	ILMN_1787324	C16orf48	0.1767	0.001262967
ILMN_1764186	LOC146517	-0.2351	1.05E-08	ILMN_2115379	ERP44	0.1286	0.001271365
ILMN_1775448	PFN2	0.2428	1.06E-08	ILMN_1808587	ZFHX3	0.1737	0.001272607
ILMN_3267800	LOC100130276	0.2365	1.06E-08	ILMN_1675947	MT3	0.1165	0.001280685
ILMN_1726574	CACYBP	1.0761	1.07E-08	ILMN_1701375	FBXW5	-0.1217	0.001286721
ILMN_2096604	NIP30	-0.2260	1.07E-08	ILMN_1756501	ST6GAL1	-0.2067	0.001289729
ILMN_3249658	LOC100134868	-0.2981	1.08E-08	ILMN_3259223	LOC100129685	-0.1558	0.001303332
ILMN_1810514	SLC25A44	0.4772	1.09E-08	ILMN_3246766	LOC100132247	0.1901	0.001310312
ILMN_2121068	ADAM17	-0.2314	1.09E-08	ILMN_1731546	RPL26	-0.1480	0.001317519
ILMN_1705663	DMXL2	-0.2195	1.12E-08	ILMN_1714461	RNF14	-0.1058	0.001320106
ILMN_2046730	S100A10	-0.6013	1.14E-08	ILMN_1695792	CUL4A	-0.1186	0.001321934
ILMN_1810058	RABL2B	0.3473	1.16E-08	ILMN_2104877	CMPK1	-0.1104	0.001324631
ILMN_2122669	TOPORS	-0.2347	1.17E-08	ILMN_1747771	LOC730744	-0.1133	0.001327203
ILMN_1685856	FAM92A1	-0.2003	1.19E-08	ILMN_1692754	TMEM49	-0.1085	0.001327912
ILMN_1700955	TCTEX1D2	-0.2020	1.22E-08	ILMN_3223536	LOC728748	-0.1201	0.001342331
ILMN_1812250	LOC644642	-0.2971	1.27E-08	ILMN_1772677	CNOT4	0.1749	0.001352679

ILMN_2186482	TMED7	0.6430	1.27E-08	ILMN_2224833	ADIPOR2	0.2942	0.001358437
ILMN_2212823	ZNF577	-0.3598	1.28E-08	ILMN_3304396	LOC730202	0.1563	0.001359210
ILMN_1752075	MYBPC1	-0.1752	1.31E-08	ILMN_3180557	CYB561D1	-0.1332	0.001375169
ILMN_1764522	LMBR1	-0.8491	1.31E-08	ILMN_1720053	ZFAND3	0.1295	0.001378387
ILMN_2264625	NIPBL	0.4083	1.31E-08	ILMN_1769566	ATG3	-0.1497	0.001386170
ILMN_2111918	C14orf135	-0.2483	1.36E-08	ILMN_1656482	OSBPL2	0.1058	0.001413510
ILMN_2059844	ANKRD44	0.5380	1.36E-08	ILMN_2373266	SFRS12	0.1397	0.001417333
ILMN_1726839	DCUN1D5	0.1935	1.37E-08	ILMN_1710268	ZNF385D	-0.1909	0.001423330
ILMN_3284063	LOC341965	-0.1979	1.38E-08	ILMN_1798083	CHERP	0.1403	0.001434399
ILMN_2281786	RTN1	0.2615	1.39E-08	ILMN_1769546	RIN2	0.2342	0.001434853
ILMN_1669599	DENND4C	-0.4042	1.41E-08	ILMN_1753016	MRPL35	-0.1415	0.001448285
ILMN_3248263	CCDC93	0.5078	1.42E-08	ILMN_1771026	GARS	-0.1375	0.001448443
ILMN_1670305	SERPING1	-0.2004	1.43E-08	ILMN_1707858	H2AFZ	-0.1521	0.001456928
ILMN_1780591	FAT3	-0.2476	1.47E-08	ILMN_1796712	S100A10	0.2021	0.001457513
ILMN_2412294	GNB5	-0.2156	1.49E-08	ILMN_1703036	WRNIP1	-0.1400	0.001459302
ILMN_1724598	RABL2A	0.5496	1.50E-08	ILMN_1682038	SNORA25	0.1726	0.001468665
ILMN_1754145	CAPRIN1	-0.4140	1.52E-08	ILMN_1663916	ARHGAP9	-0.1597	0.001476116
ILMN_1781457	TIPRL	0.3118	1.54E-08	ILMN_2208495	LASS5	0.1980	0.001490121
ILMN_1674560	GBA2	-0.1992	1.57E-08	ILMN_1801378	COQ3	-0.1388	0.001499967
ILMN_2228196	C6orf170	-0.1855	1.59E-08	ILMN_1760347	SRGN	0.3936	0.001503735
ILMN_2161286	FAM40B	-0.1756	1.59E-08	ILMN_1672565	RG9MTD1	-0.1441	0.001513612
ILMN_1655011	SERF1B	-0.2375	1.64E-08	ILMN_2305112	CTH	0.1537	0.001526825
ILMN_2403047	ARL13B	-0.2843	1.67E-08	ILMN_1729976	ZNF828	-0.1079	0.001527576
ILMN_1808305	RTCD1	0.3598	1.69E-08	ILMN_1707312	NFIL3	0.1774	0.001530519
ILMN_1656393	PPP2R3A	-0.2468	1.69E-08	ILMN_1757646	UFM1	-0.1482	0.001531278
ILMN_1745343	ZMAT2	-0.1758	1.73E-08	ILMN_1788347	KIAA1737	-0.1175	0.001533806
ILMN_3241729	EMX2OS	-0.3694	1.74E-08	ILMN_1716821	GORASP1	0.1235	0.001567077
ILMN_1690114	PTPLAD2	-0.3058	1.74E-08	ILMN_1740083	ORC4L	-0.1479	0.001580222
ILMN_3178553	LOC100128126	0.5467	1.76E-08	ILMN_1754553	MED19	-0.1185	0.001594302
ILMN_2363392	TNFSF14	0.5585	1.79E-08	ILMN_1807074	MIF	-0.0898	0.001604153
ILMN_1761882	C3orf14	0.8029	1.83E-08	ILMN_1715384	B3GNT6	-0.2308	0.001612965
ILMN_2048811	NUBPL	-0.2574	1.84E-08	ILMN_1674399	ZNF143	-0.1094	0.001624160
ILMN_1706238	CSE1L	-0.3785	1.84E-08	ILMN_2374234	PRKACB	-0.3341	0.001630476
ILMN_1677113	RNF8	0.3528	1.85E-08	ILMN_1744059	DCTN6	-0.1375	0.001641290
ILMN_1758412	COPS7A	0.3191	1.85E-08	ILMN_2059211	KIAA0195	0.1824	0.001644344
ILMN_1776674	SAC3D1	-0.2821	1.87E-08	ILMN_1880784		0.1963	0.001659501
ILMN_1722309	ENDOG	-0.2502	1.88E-08	ILMN_3292056	LOC727984	0.1277	0.001660208
ILMN_1762033	NAPEPLD	-0.2586	1.90E-08	ILMN_2334242	CREB1	0.1158	0.001665344
ILMN_1656656	COX19	-0.2136	2.00E-08	ILMN_1807201	FAM104A	0.1110	0.001666867
ILMN_1700549	ERLIN2	0.2396	2.01E-08	ILMN_3235104	KIAA1731	0.1667	0.001668405
ILMN_2395969	PRDX3	-0.2398	2.03E-08	ILMN_3231596	PLXNA4	0.1291	0.001669919
ILMN_3214052	LOC644877	0.2905	2.04E-08	ILMN_1674458	KLHL7	0.1276	0.001678496
ILMN_1715886	CNOT7	0.2780	2.07E-08	ILMN_1808765	ZNF25	-0.2047	0.001682366
ILMN_2324157	UBA3	0.5160	2.10E-08	ILMN_1847363	LOC731835	-0.1804	0.001690194
ILMN_2098418	LOC652968	-0.4351	2.10E-08	ILMN_1709237	EPHX2	0.2026	0.001702324
ILMN_1700628	DDX24	0.3890	2.17E-08	ILMN_1689251	SPG3A	-0.1220	0.001705132
ILMN_1676358	RALB	-0.1915	2.18E-08	ILMN_1758728	FANCG	0.1528	0.001723800
ILMN_1678235	KIAA1267	0.5069	2.18E-08	ILMN_1715661	TFAM	0.1087	0.001724786
ILMN_1657797	FIBP	-0.2375	2.20E-08	ILMN_1698777	ADCK1	-0.1373	0.001731644
ILMN_1690802	TRMT112	-0.2950	2.21E-08	ILMN_1801121	SENP2	-0.1570	0.001732717
ILMN_1728024	TUBG1	-0.3066	2.22E-08	ILMN_1759460	TAF7	-0.1477	0.001754797
ILMN_2274923	MOCS2	0.2846	2.23E-08	ILMN_2362245	HNRNP2	-0.2083	0.001757106
ILMN_2145997	SP4	-0.3813	2.25E-08	ILMN_1745034	SLC11A2	0.1405	0.001776207
ILMN_1701461	TIMP3	0.2184	2.30E-08	ILMN_2066124	AFG3L2	-0.1128	0.001781615
ILMN_1772123	ACACA	-0.1749	2.31E-08	ILMN_2048647	NBEA	-0.2322	0.001784140
ILMN_3199609	LOC400013	0.1940	2.31E-08	ILMN_1767892	DUSP12	-0.1296	0.001797384
ILMN_1694219	ARIH1	0.4135	2.34E-08	ILMN_1796464	WDR37	-0.1342	0.001804620
ILMN_1717393	PTCHD1	0.5867	2.35E-08	ILMN_1693538	STK36	0.1937	0.001811038

ILMN_3240187	TMEM111	-0.1966	2.37E-08	ILMN_1889752		-0.1508	0.001822219
ILMN_2106380	TNFSF15	-0.2001	2.38E-08	ILMN_1652163	DVL2	0.1118	0.001830326
ILMN_1685774	LOC647340	0.3816	2.39E-08	ILMN_1715113	HARS2	0.0866	0.001830357
ILMN_1916702		0.4475	2.43E-08	ILMN_1655498	FLJ25404	-0.1577	0.001832188
ILMN_1654441	OAT	0.5440	2.46E-08	ILMN_3306173	MED7	-0.1192	0.001839483
ILMN_1671843	PSRC1	-0.3970	2.47E-08	ILMN_1695034	LOC642817	-0.1609	0.001850000
ILMN_1721605	SMYD2	0.3880	2.55E-08	ILMN_1741148	ALDOA	-0.1621	0.001858146
ILMN_2347044	SLC25A14	-0.3625	2.56E-08	ILMN_3199655	LOC646784	0.1088	0.001858486
ILMN_3255124	ATL1	0.7438	2.58E-08	ILMN_2348090	MRPL55	-0.1370	0.001866613
ILMN_1761519	EIF4G2	-0.2227	2.64E-08	ILMN_1800220	KCTD3	0.1733	0.001888535
ILMN_1695576	MRPL24	0.4684	2.65E-08	ILMN_1802519	VPS36	-0.1210	0.001896821
ILMN_1785703	LMOD3	-0.3383	2.65E-08	ILMN_1668996	C1QBP	-0.1069	0.001919685
ILMN_1763461	ALDH7A1	0.6457	2.65E-08	ILMN_3229324	SGK1	0.4575	0.001937798
ILMN_1723021	ICMT	0.3495	2.70E-08	ILMN_2223805	TSGA14	-0.2215	0.001964621
ILMN_1694587	EEF1B2	0.2181	2.72E-08	ILMN_1789106	IPP	0.1542	0.001968944
ILMN_1704446	SLC6A10P	0.2304	2.73E-08	ILMN_1769473	SETD2	0.0825	0.001975588
ILMN_3239284	B9D1	-0.2045	2.78E-08	ILMN_1709032	FYCO1	0.1969	0.001990959
ILMN_3251723	PNPT1	0.2477	2.79E-08	ILMN_2332795	ZNF16	0.1199	0.002005172
ILMN_3180420	LOC100129269	-0.2425	2.84E-08	ILMN_1757406	HIST1H1C	0.2754	0.002007967
ILMN_1747271	ATP1B2	-0.3565	2.85E-08	ILMN_1687592	WWC3	0.1637	0.002013692
ILMN_1689123	CCNK	0.2047	2.91E-08	ILMN_1708604	C7orf28A	-0.1518	0.002017311
ILMN_1794108	MED9	-0.2026	2.93E-08	ILMN_2208802	NPIP	0.2398	0.002019031
ILMN_2395389	PSMC4	-0.2709	2.96E-08	ILMN_1741096	FDFT1	-0.1801	0.002029637
ILMN_1770635	SOX2	0.5878	2.96E-08	ILMN_1722648	SF3B4	0.1273	0.002046991
ILMN_2120340	RUVBL2	-0.2353	2.97E-08	ILMN_1808508	KITLG	-0.3164	0.002048098
ILMN_1739274	PDHB	-0.3006	3.03E-08	ILMN_1716552	ENAH	0.1322	0.002058538
ILMN_1681591	PTPN1	0.3166	3.13E-08	ILMN_1660806	CSRP2	0.2104	0.002061362
ILMN_1749081	AUTS2	-0.2612	3.13E-08	ILMN_1760982	ZNF187	0.1312	0.002064050
ILMN_2359014	TBCE	0.2940	3.16E-08	ILMN_1683129	CCNL1	0.1472	0.002074460
ILMN_1815115	CYC1	-0.1218	3.22E-08	ILMN_1727389	CDC16	0.0914	0.002101135
ILMN_1721204	CSF2RA	-0.2464	3.25E-08	ILMN_1726516	SCRIB	0.1527	0.002101495
ILMN_2396272	PDCD4	-0.3152	3.29E-08	ILMN_1790973	CDS2	-0.1166	0.002104289
ILMN_1759915	ARPC1A	0.4232	3.29E-08	ILMN_2154322	SEMA3E	0.1284	0.002116255
ILMN_1815057	PDGFRB	0.2867	3.32E-08	ILMN_2370685	C6orf1	-0.1469	0.002129845
ILMN_1666739	RBM15	-0.2007	3.33E-08	ILMN_2190051	CCDC91	-0.1470	0.002131887
ILMN_2386444	ANGPTL4	0.3767	3.33E-08	ILMN_2059173	SLC35E1	0.1567	0.002132912
ILMN_1795991	C22orf28	-0.3088	3.40E-08	ILMN_1793549	PTPN4	-0.1342	0.002166837
ILMN_1749115	RTN2	1.0886	3.40E-08	ILMN_1717265	FLJ37078	0.2126	0.002168718
ILMN_1808333	PPP1R7	0.3801	3.41E-08	ILMN_1674282	PPARD	0.1109	0.002170210
ILMN_1665583	TUBB	0.4607	3.42E-08	ILMN_1757387	UCHL1	-0.2412	0.002171277
ILMN_1771738	ARL5A	-0.2315	3.44E-08	ILMN_3245869	LOC440957	-0.1137	0.002187568
ILMN_1720858	C6orf115	0.8100	3.48E-08	ILMN_2367186	PIGA	0.1400	0.002196700
ILMN_1762888	FAM119A	-0.4492	3.52E-08	ILMN_1741176	CHMP2B	-0.1736	0.002198860
ILMN_1747673	RASL10A	-0.3952	3.53E-08	ILMN_1735474	R3HCC1	-0.1021	0.002201969
ILMN_1768050	SCOC	0.3949	3.56E-08	ILMN_1756631	ZNF526	0.1274	0.002208272
ILMN_1794230	SCAND1	-0.2755	3.69E-08	ILMN_1784641	NDUFA3	-0.1113	0.002208345
ILMN_2384122	GPR56	-0.3087	3.69E-08	ILMN_1768311	LOC728888	0.1401	0.002217986
ILMN_2097259	CYP2U1	0.5348	3.70E-08	ILMN_1898518		0.2348	0.002231361
ILMN_2396996	PPCS	0.3539	3.74E-08	ILMN_1697544	SLC25A29	0.1745	0.002231515
ILMN_2075794	NLRP8	-0.3032	3.75E-08	ILMN_1785424	ABLIM1	0.1637	0.002233325
ILMN_3256478	LOC100129034	-0.3642	3.79E-08	ILMN_1654639	HERC6	-0.2112	0.002235077
ILMN_3266471	LOC100129566	-0.3359	3.83E-08	ILMN_1659725	EXOSC5	-0.1097	0.002235915
ILMN_1676955	TYK2	-0.4966	3.84E-08	ILMN_1795341	SFRS1	0.0900	0.002239327
ILMN_1720311	SLC25A46	-0.2086	3.89E-08	ILMN_1694548	ANXA3	0.3089	0.002252512
ILMN_1805111	BRWD1	-0.2865	3.95E-08	ILMN_1692575	SFRS8	0.1199	0.002253793
ILMN_2386354	CSNK2A1	0.5556	3.97E-08	ILMN_1742541	ZNF518A	0.1708	0.002258135
ILMN_1654320	LOC644250	-0.3264	4.15E-08	ILMN_2197846	HADHB	0.2272	0.002277100
ILMN_1813344	C20orf7	-0.2205	4.19E-08	ILMN_3238511	LOC730020	-0.2692	0.002304761

ILMN_2152581	STK38	-0.5251	4.29E-08	ILMN_1728626	WDR5	0.1414	0.002304979
ILMN_1705753	C3orf26	0.6476	4.31E-08	ILMN_1658104	KBTBD6	-0.1394	0.002318115
ILMN_1677691	LOC648852	0.4470	4.33E-08	ILMN_3243297	LOC641814	-0.1186	0.002348394
ILMN_1775853	MAGI1	0.2575	4.39E-08	ILMN_3187612	LOC100128084	0.0829	0.002376392
ILMN_1733931	PDCD6	0.4352	4.40E-08	ILMN_1786021	PRKAB2	0.1516	0.002381593
ILMN_1804929	OXTR	0.4492	4.40E-08	ILMN_3275590	LOC647302	-0.1169	0.002387585
ILMN_1751898	C12orf4	-0.1536	4.45E-08	ILMN_1743219	CA11	-0.1940	0.002392117
ILMN_1688629	ZNF274	0.3931	4.46E-08	ILMN_2404065	APP	-0.2918	0.002393909
ILMN_1677487	ANKZF1	0.4644	4.47E-08	ILMN_3240957	C2orf80	-0.1979	0.002404932
ILMN_1789266	CCDC25	-0.4873	4.49E-08	ILMN_2134888	TUBE1	0.1537	0.002406976
ILMN_2128489	UQCRB	0.2191	4.62E-08	ILMN_1697006	LOC642361	0.1099	0.002411751
ILMN_1856315		0.8850	4.62E-08	ILMN_1659058	PPP1R10	0.2045	0.002417429
ILMN_1682098	PSMA4	0.3493	4.64E-08	ILMN_1699737	TRAP1	-0.1241	0.002425127
ILMN_2409451	NCKAP1	-0.2082	4.65E-08	ILMN_3233871	ATXN1L	0.1121	0.002427102
ILMN_1690371	MRPL11	-0.3486	4.70E-08	ILMN_1741171	TM2D2	-0.1696	0.002427264
ILMN_1808661	TOMM5	0.2557	4.74E-08	ILMN_2411264	BTBD1	-0.1573	0.002429123
ILMN_2246956	BCL2	-0.2995	4.75E-08	ILMN_2282352	PHYH	-0.1717	0.002438373
ILMN_2373566	PJA1	-0.2366	4.76E-08	ILMN_1756826	MORN2	-0.1595	0.002438422
ILMN_1678165	LSM7	0.2946	4.79E-08	ILMN_1678004	TMEM41B	0.1095	0.002467731
ILMN_1722223	LOC728452	-0.3380	4.83E-08	ILMN_1791302	EFHC2	0.1852	0.002477619
ILMN_1808783	STRBP	0.5998	4.86E-08	ILMN_1801869	WDR75	0.0951	0.002479303
ILMN_1708131	BHLHB9	0.3854	4.88E-08	ILMN_2079004	MDH2	-0.0987	0.002482256
ILMN_1682818	TTLL3	-0.2738	4.92E-08	ILMN_3261938	LOC100130154	-0.1948	0.002492086
ILMN_1733603	NDUFC1	0.7555	4.95E-08	ILMN_1684205	CIB1	0.1423	0.002494180
ILMN_1706969	BEND6	0.2930	4.96E-08	ILMN_2398403	TCEAL1	-0.1792	0.002504515
ILMN_1795697	PTP4A2	0.5449	5.09E-08	ILMN_1655137	ZCCHC11	0.1161	0.002522170
ILMN_1711878	ENOPH1	0.3427	5.10E-08	ILMN_1673023	EP400	0.1123	0.002558193
ILMN_2386355	CSNK2A1	0.3604	5.20E-08	ILMN_2315780	TACC2	-0.1592	0.002568656
ILMN_1683146	FTH1	0.5323	5.21E-08	ILMN_3271412	LOC100127922	-0.1502	0.002574722
ILMN_1789338	SORBS3	-0.2263	5.22E-08	ILMN_1664776	EFR3A	-0.1402	0.002591869
ILMN_2117569	DEM1	0.4188	5.23E-08	ILMN_1686750	MGEA5	0.0874	0.002598955
ILMN_1878029		0.7416	5.27E-08	ILMN_3240586	PLD6	0.1411	0.002608066
ILMN_3281327	LOC100133129	0.2358	5.29E-08	ILMN_1811957	CAMSAP1	-0.1083	0.002626498
ILMN_1736847	MED8	-0.4341	5.34E-08	ILMN_1794599	SNRPD3	-0.1574	0.002630848
ILMN_1781906	RBM17	-0.2733	5.44E-08	ILMN_2350801	SLC25A29	0.1433	0.002685868
ILMN_1668411	FHL2	-0.2621	5.49E-08	ILMN_1768194	BIRC2	-0.1517	0.002700335
ILMN_3274914	LOC648927	-0.2980	5.54E-08	ILMN_2076250	GPBP1L1	0.0935	0.002702676
ILMN_1729112	CHPT1	-0.2276	5.56E-08	ILMN_1656628	WDR4	-0.1522	0.002715115
ILMN_1701681	SEC11C	-0.2414	5.66E-08	ILMN_2369286	NME7	-0.1846	0.002715752
ILMN_2220518	HBXIP	0.3128	5.71E-08	ILMN_1815733	EIF5	-0.1959	0.002722027
ILMN_1742230	BAZ1A	-0.2459	5.75E-08	ILMN_1764970	JMJD1C	0.1017	0.002727226
ILMN_1764431	COPS6	0.3907	5.81E-08	ILMN_2112301	DRAP1	-0.0943	0.002730405
ILMN_2386100	BUB3	-0.3309	5.83E-08	ILMN_1672366	PIGY	-0.1110	0.002744365
ILMN_1703564	DYNLRB1	-0.1495	5.95E-08	ILMN_1745423	UTP3	-0.1423	0.002759920
ILMN_2392080	DCAF6	-0.2820	5.99E-08	ILMN_1718271	MTIF3	-0.1354	0.002786846
ILMN_2363027	RAD51	-0.2732	6.00E-08	ILMN_1698726	SLC25A27	-0.2620	0.002833591
ILMN_1722276	PAFAH1B1	0.2669	6.01E-08	ILMN_1780699	THAP11	-0.0755	0.002836822
ILMN_1691466	YES1	-0.2374	6.02E-08	ILMN_1796146	EIF4E3	-0.1556	0.002849765
ILMN_3288830	LOC100132918	0.2192	6.15E-08	ILMN_2131880	DPY30	-0.1090	0.002864996
ILMN_1723260	ETV5	0.4372	6.15E-08	ILMN_1710075	FAM89A	0.2710	0.002865270
ILMN_1660341	LRPAP1	-0.2465	6.17E-08	ILMN_2377900	MAP1B	-0.2138	0.002872588
ILMN_1709451	TFPT	-0.2653	6.36E-08	ILMN_2215640	TUBA3D	-0.2064	0.002883166
ILMN_1791328	STK39	-0.1914	6.40E-08	ILMN_2374352	DBNDD1	-0.1768	0.002883511
ILMN_3260180	FLJ25363	-0.2578	6.40E-08	ILMN_1661755	FAM129B	0.1822	0.002897624
ILMN_1675406	PPAPDC1B	0.3227	6.52E-08	ILMN_1773901	STX12	-0.0844	0.002899868
ILMN_1779258	LOC644774	0.2879	6.57E-08	ILMN_1800276	RCN1	0.2267	0.002923245
ILMN_1713249	PHF19	0.2267	6.59E-08	ILMN_1772706	C10orf32	-0.1863	0.002944319
ILMN_1742109	DNAJC19	0.1703	6.71E-08	ILMN_1692058	NDN	-0.1488	0.002959804

ILMN_1764851	TP53RK	0.7809	6.87E-08	ILMN_3304111	LOC729978	0.1334	0.002986275
ILMN_1741350	CEP70	-0.2442	6.93E-08	ILMN_1655497	EIF4B	0.1162	0.003003323
ILMN_1770653	MAL2	-0.2826	7.04E-08	ILMN_2359345	NET1	-0.1833	0.003012312
ILMN_1658373	PAN2	0.4162	7.07E-08	ILMN_1732609	KIAA1539	0.1363	0.003038943
ILMN_1706498	DSE	-0.1668	7.10E-08	ILMN_1742872	UBA2	-0.1184	0.003123639
ILMN_1843949		1.1574	7.12E-08	ILMN_2228538	IRAK1BP1	0.1421	0.003130601
ILMN_3228529	TMEM191A	0.3719	7.14E-08	ILMN_2403889	PRMT5	-0.1171	0.003142021
ILMN_1718769	ITSN1	-0.1888	7.16E-08	ILMN_2399174	TRAK1	0.1660	0.003160264
ILMN_2388701	ST3GAL5	0.2585	7.17E-08	ILMN_1776723	PHF11	0.1456	0.003170787
ILMN_1693341	SNRPN	-0.3635	7.33E-08	ILMN_1693685	LOC205251	-0.2284	0.003200337
ILMN_1763638	BCAR3	-0.6877	7.58E-08	ILMN_3239621	SNRNP27	-0.1603	0.003203803
ILMN_1765076	APPL2	-0.2219	7.60E-08	ILMN_2059996	MEGF8	-0.1589	0.003208752
ILMN_1792317	SLCO1C1	0.3135	7.65E-08	ILMN_2361575	SNX14	-0.1313	0.003229205
ILMN_1655884	ATP2A2	-0.2066	7.66E-08	ILMN_1739770	CRSP9	-0.1271	0.003236443
ILMN_1692121	USO1	0.1753	7.69E-08	ILMN_1694325	NFIX	0.1285	0.003236695
ILMN_1676842	BTAF1	-0.2358	7.75E-08	ILMN_1678215	RHOJ	0.2510	0.003262778
ILMN_1693333	TMEM19	-0.2230	7.78E-08	ILMN_1766505	COMMD10	-0.1543	0.003264510
ILMN_1684054	ASAH1	-0.2855	7.88E-08	ILMN_1666096	ACSL3	-0.1948	0.003288927
ILMN_2154836	BTG3	-0.2676	7.91E-08	ILMN_2316918	PANK1	-0.1649	0.003292411
ILMN_1759983	DR1	-0.2086	7.92E-08	ILMN_3305339	UBA5	-0.1593	0.003298779
ILMN_1737211	ZNF585A	-0.2036	8.09E-08	ILMN_1765204	ST13	0.1045	0.003305182
ILMN_1659437	TXNDC17	-0.4147	8.18E-08	ILMN_1665982	AKTIP	-0.1184	0.003311218
ILMN_1772798	ARPP19	-0.2295	8.19E-08	ILMN_2404085	CLIP1	0.1200	0.003314084
ILMN_2394576	FBXW11	0.2441	8.24E-08	ILMN_1681590	LARP1	-0.1204	0.003326618
ILMN_1706825	PKN2	-0.6629	8.31E-08	ILMN_1728083	EIF4EBP2	0.1023	0.003354630
ILMN_2332250	ACOT7	-0.2879	8.35E-08	ILMN_1707339	BTG3	0.1935	0.003355579
ILMN_1731612	UCHL5	0.3779	8.37E-08	ILMN_3275275	LOC727962	0.1397	0.003375984
ILMN_3251605	KLHL28	-0.2074	8.40E-08	ILMN_1758497	TTYH1	0.2023	0.003380898
ILMN_1725510	DHCR24	0.5735	8.43E-08	ILMN_2060086	ADAM23	-0.2090	0.003392269
ILMN_1794638	VIP	0.5186	8.51E-08	ILMN_1653115	ECH1	0.1453	0.003397369
ILMN_1803045	TUBGCP5	-0.3499	8.51E-08	ILMN_2054442	ZNF146	0.1307	0.003407438
ILMN_1660021	M6PRBP1	-0.3137	8.58E-08	ILMN_1779633	PSMD6	-0.1453	0.003421920
ILMN_1699496	PHF21A	0.1979	8.71E-08	ILMN_2413650	STIL	0.1121	0.003439281
ILMN_1689953	CD81	-0.2748	8.73E-08	ILMN_1696311	IMPAD1	-0.1643	0.003439932
ILMN_1693882	TAPT1	-0.3896	8.79E-08	ILMN_1683682	DAGLA	-0.1641	0.003445289
ILMN_1814650	TRAPPC4	0.2036	8.97E-08	ILMN_2406552	LRDD	0.1667	0.003470355
ILMN_1681703	FOXO3	0.4129	8.99E-08	ILMN_2140207	ATPBD4	0.1571	0.003485139
ILMN_1724826	DNM1L	-0.2468	9.11E-08	ILMN_1677607	SC5DL	-0.1520	0.003512203
ILMN_1789775	WDR74	0.3071	9.47E-08	ILMN_1773493	TIMM23	-0.1209	0.003523886
ILMN_1790909	NFE2L2	-0.3345	9.51E-08	ILMN_2330495	OCIAD1	0.0734	0.003582743
ILMN_1744897	KCNN3	0.3635	9.59E-08	ILMN_1719906	HADH	0.1014	0.003616922
ILMN_1709611	PSMA1	-0.5026	9.64E-08	ILMN_1801441	RFTN2	0.3187	0.003669409
ILMN_1755909	C20orf11	-0.1810	9.70E-08	ILMN_1722905	MRPS11	-0.1046	0.003702721
ILMN_2398926	C17orf58	0.2436	9.78E-08	ILMN_1748427	ZNF239	-0.1570	0.003706516
ILMN_1707084	UBE2D4	0.2251	9.79E-08	ILMN_1673421	LOC440704	0.1330	0.003737135
ILMN_2376458	CSF2RA	0.2207	9.96E-08	ILMN_2132809	ARHGEF10	0.2183	0.003743291
ILMN_2072140	BTF3L4	0.3472	1.00E-07	ILMN_1665357	EPS15	-0.1193	0.003751420
ILMN_2332267	CSNK1G3	-0.5584	1.04E-07	ILMN_1808792	ALKBH6	-0.1106	0.003768402
ILMN_3287493	LOC650157	-0.2811	1.05E-07	ILMN_2049364	FAM119A	0.0916	0.003769735
ILMN_3243859	NDUFB9	0.4824	1.08E-07	ILMN_1756860	TXNL1	-0.1485	0.003805493
ILMN_1679782	BLOC1S2	-0.2319	1.08E-07	ILMN_1696066	CARS	-0.1178	0.003821140
ILMN_1788315	SIN3B	-0.2373	1.08E-07	ILMN_2376133	KIAA1191	0.0788	0.003828581
ILMN_1725183	TBCE	0.5860	1.09E-07	ILMN_1717357	AIFM1	-0.0782	0.003829924
ILMN_1724753	NIN	-0.2434	1.10E-07	ILMN_1662470	C10orf35	-0.1447	0.003837411
ILMN_2182750	DDX1	-0.2020	1.10E-07	ILMN_1723212	SFRS3	-0.1866	0.003859600
ILMN_1785191	TMEM14A	0.5091	1.11E-07	ILMN_1775192	BCLAF1	0.0863	0.003860060
ILMN_1662658	PUS1	-0.4797	1.12E-07	ILMN_1696622	SLC38A6	0.1097	0.003891424
ILMN_1760635	RAD51C	-0.3071	1.13E-07	ILMN_1813236	C6orf136	-0.1093	0.003920117

ILMN_1702783	LOC652595	-0.1823	1.13E-07	ILMN_1815874	NANS	-0.1367	0.003938415
ILMN_1698677	C4orf27	0.3425	1.13E-07	ILMN_1711470	UBE2T	-0.2127	0.003945016
ILMN_1691111	SPATA2L	0.8259	1.16E-07	ILMN_1724493	LYSMD2	-0.1336	0.003946851
ILMN_1713178	FAM116A	0.2117	1.18E-07	ILMN_2146372	KCTD6	0.0920	0.003948644
ILMN_1685260	DNM1L	-0.2435	1.18E-07	ILMN_1794829	C6orf117	-0.2736	0.003992121
ILMN_1762899	EGR1	-0.4337	1.19E-07	ILMN_2142284	SLC25A43	0.1843	0.004011200
ILMN_2122374	FAM49B	-0.1920	1.20E-07	ILMN_1727495	L3MBTL3	0.1198	0.004024035
ILMN_2202481	UBLCP1	-0.2760	1.20E-07	ILMN_3178792	HNRNPA2B1	0.1510	0.004069789
ILMN_1756674	ATP5EP2	-0.3506	1.20E-07	ILMN_3248773	C7orf40	-0.1377	0.004073594
ILMN_2342033	F11R	0.2577	1.20E-07	ILMN_3244987	KIAA0895L	0.1378	0.004077701
ILMN_1663618	STAT3	-0.2977	1.21E-07	ILMN_1785574	HTRA2	-0.1094	0.004139692
ILMN_2071937	ATP6V0E1	0.1903	1.22E-07	ILMN_1783806	DTNBP1	-0.1596	0.004173093
ILMN_1727360	MAOB	-0.5108	1.23E-07	ILMN_1720158	ETS2	-0.2139	0.004208425
ILMN_2093389	SNAPC1	-0.2841	1.27E-07	ILMN_2100689	MAP2K4	-0.1710	0.004228375
ILMN_2402798	AP2M1	-0.3613	1.29E-07	ILMN_1772645	AGK	-0.1636	0.004234553
ILMN_1763265	CHMP1B	-0.2758	1.31E-07	ILMN_1722834	RGS12	-0.2165	0.004248630
ILMN_1711199	ZNF331	-0.2653	1.31E-07	ILMN_1761941	C4orf18	0.1809	0.004261130
ILMN_1786328	WDR40A	0.7314	1.32E-07	ILMN_1671265	ING2	-0.1531	0.004276304
ILMN_1753265	C12orf76	-0.2211	1.34E-07	ILMN_2119224	KIFAP3	-0.1540	0.004286857
ILMN_1777221	C21orf51	0.3390	1.35E-07	ILMN_1753342	SAT1	0.1617	0.004291485
ILMN_3262849	LOC100128510	-0.2454	1.37E-07	ILMN_1774823	RPL34	-0.1593	0.004343706
ILMN_1756999	RBL2	-0.4188	1.37E-07	ILMN_2318011	PSMA3	-0.1036	0.004349384
ILMN_1714990	DBT	-0.4038	1.38E-07	ILMN_3266482	LOC100129158	-0.0466	0.004400563
ILMN_1714082	CMAS	0.2658	1.38E-07	ILMN_1771618	FLJ37396	0.1095	0.004459843
ILMN_1682232	MIER1	-0.1952	1.38E-07	ILMN_1788778	11-Sep	0.1215	0.004470170
ILMN_1728301	GAD2	0.2058	1.39E-07	ILMN_1832879		0.1903	0.004513915
ILMN_1663032	FNDC4	-0.2511	1.40E-07	ILMN_2396648	EXOSC1	-0.0903	0.004519750
ILMN_1794912	ATP5H	-0.3057	1.42E-07	ILMN_2203896	SMAD7	0.1467	0.004523711
ILMN_1720114	GMNN	-0.2423	1.43E-07	ILMN_1792986	RFC1	-0.1181	0.004581942
ILMN_1778321	SLC2A6	-0.2210	1.43E-07	ILMN_2174369	ELOVL5	0.3056	0.004586567
ILMN_1691862	RABIF	-0.3297	1.46E-07	ILMN_1764795	FMN2	0.1148	0.004641290
ILMN_1721167	MYT1	0.3245	1.47E-07	ILMN_1751656	KLF11	0.1719	0.004649123
ILMN_1900520		0.2613	1.48E-07	ILMN_2063586	CLIC4	0.3615	0.004742973
ILMN_3209317	LOC644949	-0.4753	1.50E-07	ILMN_1789616	NUPL2	-0.0952	0.004745599
ILMN_2347424	MBOAT2	0.3963	1.50E-07	ILMN_1770537	NGFRAP1	0.1703	0.004764784
ILMN_1771348	ACN9	0.3467	1.51E-07	ILMN_1699570	TPD52L2	0.1384	0.004800685
ILMN_2088612	XPO4	0.4928	1.51E-07	ILMN_1778161	DNAJC25	-0.1537	0.004871849
ILMN_1656184	PI4KAP1	0.2202	1.51E-07	ILMN_1779448	EFHD1	0.3332	0.004927625
ILMN_2371590	DDX17	-0.2577	1.56E-07	ILMN_2129715	COG3	0.1160	0.004950219
ILMN_1721457	RANBP1	-0.2853	1.60E-07	ILMN_1800447	PHKB	-0.1244	0.004969953
ILMN_1690844	LOC387820	0.2113	1.62E-07	ILMN_1757644	UBE2H	0.1366	0.004974754
ILMN_1733675	MPP1	-0.3204	1.63E-07	ILMN_1667857	C12orf52	-0.1471	0.004979632
ILMN_1653412	RAXL1	0.2765	1.64E-07	ILMN_2230892	IL10RB	0.1937	0.005026712
ILMN_1766024	PDCD10	0.7711	1.67E-07	ILMN_1673252	AIMP2	-0.1340	0.005038715
ILMN_1680874	TUBB2B	0.5102	1.69E-07	ILMN_1786720	PROM1	-0.2431	0.005077981
ILMN_1755737	TRABD	-0.2544	1.70E-07	ILMN_1799103	SNRPB	-0.1365	0.005099229
ILMN_1764769	VWA5A	-0.3010	1.74E-07	ILMN_1704753	EPAS1	0.2179	0.005105267
ILMN_2222101	N4BP2	-0.4397	1.74E-07	ILMN_1804737	RAVER2	0.1533	0.005113885
ILMN_1736940	HPRT1	0.1900	1.78E-07	ILMN_3279414	LOC440595	0.1539	0.005133791
ILMN_1656129	SLC39A10	0.8638	1.82E-07	ILMN_3233135	FAM178A	0.1846	0.005139753
ILMN_1673788	CDV3	0.6367	1.82E-07	ILMN_1807106	LDHA	-0.1570	0.005141852
ILMN_1661500	B4GALT4	-0.1392	1.89E-07	ILMN_2192693	EIF3M	-0.1432	0.005145414
ILMN_3249244	TMEM106A	-0.2384	1.90E-07	ILMN_1687768	NCOA7	-0.1608	0.005150459
ILMN_2166865	ENY2	-0.2622	1.90E-07	ILMN_1718537	HPS6	-0.1552	0.005151634
ILMN_3235912	C7orf38	-0.3028	1.91E-07	ILMN_2095820	UTP14A	-0.1009	0.005176598
ILMN_1655154	PTBP1	0.1840	1.95E-07	ILMN_1797209	TSGA14	-0.1977	0.005203597
ILMN_3260286	LOC100128062	-0.2010	1.99E-07	ILMN_1809931	NDRG1	0.2685	0.005220675
ILMN_1798380	UBQLN1	-0.3386	2.00E-07	ILMN_1677092	GEM	0.1766	0.005266371

ILMN_1768097	RPGR	-0.2661	2.01E-07	ILMN_2410540	CASP2	0.1350	0.005321024
ILMN_1804988	MOAP1	-0.2197	2.03E-07	ILMN_2340935	WBP5	0.1236	0.005321211
ILMN_1763641	ZNF614	-0.2029	2.04E-07	ILMN_1743538	MLLT10	0.0897	0.005341429
ILMN_2225698	NDUFA10	-0.5945	2.13E-07	ILMN_1708508	PPM1E	-0.2390	0.005412425
ILMN_2041101	ANXA2P1	0.5565	2.15E-07	ILMN_1687074	CDC14B	0.1637	0.005446132
ILMN_2182198	ICT1	-0.4258	2.18E-07	ILMN_3251567	FBXW2	-0.1444	0.005452280
ILMN_2287888	PSMC4	-0.3456	2.29E-07	ILMN_1787808	CEP63	-0.1021	0.005494396
ILMN_1689389	SF3B5	0.4253	2.29E-07	ILMN_3307616	EPHA10	-0.1411	0.005529089
ILMN_1750044	ZNHIT3	-0.3652	2.30E-07	ILMN_1660840	PPPDE1	0.0930	0.005553181
ILMN_1718207	SETDB1	-0.2132	2.34E-07	ILMN_1681437	DCXR	0.1598	0.005556570
ILMN_3201221	LOC341315	0.2848	2.35E-07	ILMN_1715864	NHS	0.1852	0.005566121
ILMN_1718853	UQCRC2	-0.2299	2.35E-07	ILMN_1763228	MEF2D	-0.1373	0.005566989
ILMN_2110532	RPL26L1	-0.4479	2.39E-07	ILMN_1669497	OSBPL10	-0.2122	0.005580264
ILMN_2207505	LEP	0.3141	2.40E-07	ILMN_1722492	DUSP19	0.0863	0.005591407
ILMN_1757317	LARS	-0.2560	2.41E-07	ILMN_1672728	KCTD5	0.1423	0.005609849
ILMN_2354140	NAT5	-0.1664	2.41E-07	ILMN_1777296	ACTB	-0.1881	0.005635467
ILMN_1751161	COL7A1	-0.1867	2.42E-07	ILMN_1713189	C12orf41	0.0875	0.005641005
ILMN_1656368	ALDH4A1	-0.3882	2.43E-07	ILMN_2124386	RGL2	0.1134	0.005641875
ILMN_1655867	HRASLS	0.2219	2.43E-07	ILMN_3295847	LOC645387	-0.1144	0.005662440
ILMN_1670379	ANTXR1	0.5272	2.44E-07	ILMN_2077094	C11orf2	-0.1049	0.005719270
ILMN_1704056	RPPH1	0.7008	2.46E-07	ILMN_1669832	TCF12	0.2376	0.005759884
ILMN_2342084	BCAP29	-0.2431	2.46E-07	ILMN_1703684	NAP1L2	-0.3014	0.005781274
ILMN_1785765	TM9SF2	-0.2184	2.49E-07	ILMN_1687751	BAALC	0.1141	0.005814912
ILMN_2141941	TOR1AIP1	-0.5705	2.50E-07	ILMN_2189605	FAM122B	-0.1493	0.005817262
ILMN_1688188	CADPS	-0.2594	2.50E-07	ILMN_1787511	THUMP2	0.0967	0.005888924
ILMN_3244395	LOC728877	-0.1635	2.53E-07	ILMN_2359456	ERGIC3	-0.0973	0.005891616
ILMN_1788250	LDOC1	-0.2962	2.59E-07	ILMN_1693771	ASPH	-0.2152	0.005939124
ILMN_2181883	C14orf129	0.2445	2.60E-07	ILMN_2082893	LOC440157	0.2046	0.005955670
ILMN_3238183	BMS1P5	0.3645	2.61E-07	ILMN_1689774	MRFAP1L1	0.0666	0.006013824
ILMN_1686555	FYN	0.7464	2.62E-07	ILMN_1688621	C9orf80	-0.1119	0.006052578
ILMN_1864422		-0.2110	2.64E-07	ILMN_1666206	GSDMB	0.1643	0.006055326
ILMN_1755075	IDI1	0.2561	2.65E-07	ILMN_1765109	TNFRSF25	0.2910	0.006151146
ILMN_1668507	DDAH1	0.3218	2.67E-07	ILMN_1742324	C1orf9	0.1293	0.006185385
ILMN_2110281	UFC1	0.2513	2.71E-07	ILMN_2339796	CDC16	0.0753	0.006210098
ILMN_2184556	SLC4A4	-0.1735	2.72E-07	ILMN_1739942	FAM117B	0.1257	0.006250932
ILMN_1652638	LRRC58	-0.2346	2.73E-07	ILMN_1772743	PIGK	-0.1761	0.006292501
ILMN_3237404	LOC100132585	0.3196	2.81E-07	ILMN_2056975	HPRT1	-0.1996	0.006341670
ILMN_1808041	RPL10A	-0.3434	2.84E-07	ILMN_1847822	KIAA0368	-0.1054	0.006405460
ILMN_1851547		-0.2325	2.85E-07	ILMN_1715625	C20orf94	0.2118	0.006482110
ILMN_3237830	NAT8L	-0.1711	2.85E-07	ILMN_1803853	NOL7	-0.1023	0.006564284
ILMN_1736546	SLC16A14	0.4159	2.88E-07	ILMN_1701724	C7orf20	-0.0961	0.006661536
ILMN_1792518	STX7	-0.2046	2.92E-07	ILMN_2404539	C20orf30	-0.1020	0.006743715
ILMN_1746314	EVI5	-0.3116	2.93E-07	ILMN_3237385	NRBF2	-0.1332	0.006752395
ILMN_1720476	PHF2	-0.3469	2.97E-07	ILMN_1772719	GPN1	-0.1131	0.006867532
ILMN_2205211	LOC134997	-0.2357	2.99E-07	ILMN_1906815		0.2447	0.006881719
ILMN_1723414	HACL1	0.5104	3.00E-07	ILMN_1748651	PSMB3	-0.0867	0.006891540
ILMN_1661886	APEX1	-0.2351	3.00E-07	ILMN_3289090	LOC728059	-0.2051	0.006910259
ILMN_1737146	TRAM1	0.2428	3.02E-07	ILMN_1687090	GABRB3	-0.3411	0.006942693
ILMN_2059886	TTC38	0.2365	3.09E-07	ILMN_1806634	NNT	-0.1360	0.006962730
ILMN_2121816	GPR137B	1.0761	3.11E-07	ILMN_1779228	CDH2	0.0915	0.007023681
ILMN_2415979	KIAA1751	-0.2260	3.12E-07	ILMN_3251742	ZNF322A	0.1308	0.007071221
ILMN_1695468	SRPK2	-0.2981	3.16E-07	ILMN_1747504	AHCTF1	0.1692	0.007115437
ILMN_1697820	HINT2	0.4772	3.18E-07	ILMN_1666502	SOBP	-0.1250	0.007166006
ILMN_1768393	SNRPD1	-0.2314	3.23E-07	ILMN_1812557	CDK5RAP3	0.1300	0.007169174
ILMN_1662129	RCN2	-0.2195	3.25E-07	ILMN_2148507	ANKRD13C	-0.1730	0.007180743
ILMN_1702279	KIF3B	-0.6013	3.29E-07	ILMN_2073157	AMY2B	0.1716	0.007201289
ILMN_1663080	LFNG	0.3473	3.29E-07	ILMN_1803745	SUOX	0.1139	0.007209908
ILMN_1654112	PARD6A	-0.2347	3.30E-07	ILMN_3229552	MED7	-0.1251	0.007221701

ILMN_2278653	ZNF493	-0.2003	3.31E-07	ILMN_1658080	ZNF573	0.1028	0.007243806
ILMN_1810759	C2orf25	-0.2020	3.32E-07	ILMN_2209993	PLIN5	0.2594	0.007314398
ILMN_1651346	TICAM2	-0.2971	3.36E-07	ILMN_1663132	ADCK2	-0.1106	0.007349756
ILMN_1782635	YARS2	0.6430	3.37E-07	ILMN_1813010	VTA1	-0.1444	0.007365863
ILMN_2202940	CHPT1	-0.3598	3.42E-07	ILMN_2388484	MAP2	-0.3388	0.007445477
ILMN_1762972	CHD9	-0.1752	3.44E-07	ILMN_1741477	SMAD4	0.1383	0.007460125
ILMN_2143261	CXorf40B	-0.8491	3.44E-07	ILMN_1700183	APLNR	0.5222	0.007524935
ILMN_2089175	SYAP1	0.4083	3.47E-07	ILMN_1660368	TRRAP	0.1195	0.007638536
ILMN_1733356	PREI3	-0.2483	3.48E-07	ILMN_1740742	UROD	-0.0848	0.007714628
ILMN_1789171	EEF2K	0.5380	3.57E-07	ILMN_1679754	ADRA1B	-0.2343	0.007722826
ILMN_1705900	ATXN10	0.1935	3.71E-07	ILMN_1798346	KIAA1468	-0.1327	0.007747594
ILMN_3229859	MOBK13	-0.1979	3.79E-07	ILMN_1658472	APH1A	0.1489	0.007836583
ILMN_3251451	MED31	0.2615	3.80E-07	ILMN_3245239	PNMAL2	-0.1699	0.007859946
ILMN_2090558	C2orf25	-0.4042	3.80E-07	ILMN_2151281	GABARAPL1	-0.1496	0.007863222
ILMN_1716342	CCDC132	0.5078	3.81E-07	ILMN_1741464	HOOK3	0.1033	0.007926943
ILMN_1741684	SMPD1	-0.2004	3.84E-07	ILMN_1750324	IGFBP5	0.2516	0.008012322
ILMN_2372011	SCAND1	-0.2476	3.97E-07	ILMN_2347807	EXOC1	-0.1332	0.008040677
ILMN_1698225	MYO5A	-0.2156	3.99E-07	ILMN_1725300	MLL3	0.1324	0.008051689
ILMN_1793433	RAB10	0.5496	4.01E-07	ILMN_2324162	SLC45A1	-0.1512	0.008086187
ILMN_3226082	LOC728620	-0.4140	4.03E-07	ILMN_1813544	OXCT1	-0.2358	0.008088696
ILMN_1772506	ATP5I	0.3118	4.05E-07	ILMN_1886493		0.1809	0.008217364
ILMN_3253787	LOC100128274	-0.1992	4.08E-07	ILMN_1707236	HCCS	-0.1815	0.008298308
ILMN_1654583	CHD1	-0.1855	4.12E-07	ILMN_1704876	USP38	0.1415	0.008324089
ILMN_2150294	FKBP14	-0.1756	4.14E-07	ILMN_1740160	PLCG1	0.1437	0.008331802
ILMN_1716843	ELOVL2	-0.2375	4.22E-07	ILMN_1786532	CNIH	-0.1504	0.008376027
ILMN_2160005	NUMA1	-0.2843	4.22E-07	ILMN_1708660	RWDD4A	0.0770	0.008383582
ILMN_1798254	ACTR10	0.3598	4.26E-07	ILMN_1671603	MED30	0.1266	0.008457908
ILMN_1665538	SKP2	-0.2468	4.28E-07	ILMN_1693367	TPD52	-0.1547	0.008559719
ILMN_1727332	ATPIF1	-0.1758	4.29E-07	ILMN_1775759	NRAS	0.1364	0.008608029
ILMN_1773763	MTA2	-0.3694	4.31E-07	ILMN_1781764	HNRNP2	-0.2022	0.008644807
ILMN_1681777	SHROOM2	-0.3058	4.34E-07	ILMN_2044617	MTERFD1	-0.0968	0.008767636
ILMN_3212373	LOC727803	0.5467	4.36E-07	ILMN_2322935	MAPKAPK5	-0.1148	0.008783284
ILMN_1713603	PRKCB1	0.5585	4.39E-07	ILMN_3183750	LOC100130353	0.1564	0.008815417
ILMN_1697642	BCAP29	0.8029	4.39E-07	ILMN_1675674	UBE4B	0.1072	0.008846463
ILMN_1720344	NIPA2	-0.2574	4.43E-07	ILMN_1670308	GPM6B	0.3609	0.008910242
ILMN_3306440	TMEM194A	-0.3785	4.44E-07	ILMN_2361185	PHF20L1	-0.1208	0.008929866
ILMN_3298410	LOC729120	0.3528	4.54E-07	ILMN_3277365	LOC100133233	0.0513	0.008964186
ILMN_1698470	SYAP1	0.3191	4.56E-07	ILMN_1768958	RASGRP1	-0.2444	0.008984177
ILMN_1731224	PARP9	-0.2821	4.58E-07	ILMN_1790534	MAP2K3	0.1402	0.008988037
ILMN_2381753	G3BP2	-0.2502	4.62E-07	ILMN_1702383	CNGB1	0.2374	0.009036036
ILMN_1797950	EXTL2	-0.2586	4.63E-07	ILMN_2393169	THOC5	-0.1302	0.009042507
ILMN_2321931	DCLRE1C	-0.2136	4.67E-07	ILMN_1716766	CEBPG	0.1255	0.009063397
ILMN_2352036	RTN4	0.2396	4.76E-07	ILMN_1741003	ANXA5	0.2071	0.009075562
ILMN_2116127	NPEPPS	-0.2398	4.81E-07	ILMN_2203891	SMAD7	0.1059	0.009092719
ILMN_2408450	UBE1DC1	0.2905	4.82E-07	ILMN_1690397	DYNC1I1	-0.2663	0.009103047
ILMN_1690621	GPR98	0.2780	4.95E-07	ILMN_1657011	LOC286208	0.1740	0.009106106
ILMN_1782761	ARHGAP20	0.5160	4.95E-07	ILMN_2329914	SPRY1	0.2121	0.009136993
ILMN_1732080	SUMO1P3	-0.4351	4.95E-07	ILMN_1788108	TXNDC5	0.1004	0.009149870
ILMN_2095660	TMEM156	0.3890	4.96E-07	ILMN_3306997	METTL1	-0.1068	0.009229524
ILMN_3201643	LOC100133019	-0.1915	4.97E-07	ILMN_1700950	LOC646567	-0.1169	0.009287025
ILMN_1813100	KIAA1244	0.5069	5.03E-07	ILMN_2076640	KHDRBS1	-0.1202	0.009301219
ILMN_1690806	PTPLB	-0.2375	5.04E-07	ILMN_1815083	WHSC2	0.1300	0.009322733
ILMN_1755134	HSPA4	-0.2950	5.10E-07	ILMN_2188204	ATG12	0.1275	0.009330216
ILMN_1756541	MXD4	-0.3066	5.12E-07	ILMN_1773968	SERBP1	0.0981	0.009381707
ILMN_3181480	FLJ36131	0.2846	5.18E-07	ILMN_1789342	NDUFS2	-0.1294	0.009432233
ILMN_2133784	PATE2	-0.3813	5.27E-07	ILMN_2399503	UBN1	-0.1005	0.009538935
ILMN_1687171	CLTA	0.2184	5.28E-07	ILMN_2387919	PRKAG2	-0.1424	0.009579269
ILMN_1785795	METAP1	-0.1749	5.35E-07	ILMN_2219437	PRRG4	0.1340	0.009584664

ILMN_1763540	PSME4	0.1940	5.36E-07	ILMN_1697597	KIAA0494	0.1539	0.009673657
ILMN_2163306	FAM120A	0.4135	5.46E-07	ILMN_1696087	PHB2	-0.0938	0.009783064
ILMN_1736184	GSTM3	0.5867	5.50E-07	ILMN_1747020	SGK3	0.2409	0.009825810
ILMN_1651499	ERGIC1	-0.1966	5.53E-07	ILMN_2230025	PDLIM3	0.2227	0.009834941
ILMN_1792489	ARPC2	-0.2001	5.59E-07	ILMN_2363361	SFXN4	-0.1310	0.009883995
ILMN_2073010	TMEM203	0.3816	5.62E-07	ILMN_1730685	MRPL16	-0.0807	0.009930296
ILMN_3238053	LOC100129211	0.4475	5.63E-07	ILMN_3243961	ZNF252	-0.1916	0.009948070
ILMN_3250972	REPS2	0.5440	5.68E-07	ILMN_2393243	GTPBP8	-0.1136	0.009983149
ILMN_3243705	PDXDC1	-0.3970	5.69E-07	ILMN_1667260	MAPK3	0.1144	0.010003222
ILMN_2401822	FTSJ1	0.3880	5.70E-07	ILMN_3226495	LOC730173	0.1390	0.010050033
ILMN_3211677	LOC100132526	-0.3625	5.77E-07	ILMN_1699545	PCSK7	0.1166	0.010053256
ILMN_1693310	ITFG1	0.7438	5.78E-07	ILMN_1736704	DIXDC1	-0.2626	0.010123318
ILMN_3242176	UBR3	-0.2227	5.79E-07	ILMN_1784985	PRRT3	-0.1424	0.010124384
ILMN_2131177	GUCY1A3	0.4684	5.79E-07	ILMN_1697804	NEGR1	-0.2612	0.010157888
ILMN_2044085	RQCD1	-0.3383	5.88E-07	ILMN_2408645	LOC653566	-0.1512	0.010253594
ILMN_1812478	ZNHIT3	0.6457	5.94E-07	ILMN_1721989	ATP5F1	-0.1260	0.010262617
ILMN_2053538	RHBDL2	0.3495	5.95E-07	ILMN_1723743	ROM1	0.1235	0.010275991
ILMN_2101650	MBTD1	0.2181	5.96E-07	ILMN_1716596	NSMAF	0.0999	0.010289029
ILMN_2339825	YME1L1	0.2304	5.97E-07	ILMN_1790680	PDE6D	-0.0854	0.010360069
ILMN_1801040	SPN	-0.2045	6.06E-07	ILMN_1690268	HNRPUL1	0.1539	0.010375690
ILMN_2119937	NDUFB3	0.2477	6.08E-07	ILMN_1814823	FTL	0.1090	0.010376029
ILMN_1745852	WDR33	-0.2425	6.11E-07	ILMN_2413779	SEZ6L2	-0.1242	0.010384345
ILMN_1656185	DEF8	-0.3565	6.15E-07	ILMN_2373010	TMEM70	-0.1781	0.010435948
ILMN_2129545	GNB4	0.2047	6.15E-07	ILMN_2152178	MTMR15	0.1221	0.010494048
ILMN_1804448	MSI2	-0.2026	6.20E-07	ILMN_2124471	SLC36A1	-0.1792	0.010566978
ILMN_2365711	2-Sep	-0.2709	6.21E-07	ILMN_1807031	C14orf28	0.1597	0.010606292
ILMN_1797277	KIF3C	0.5878	6.21E-07	ILMN_2179652	PRELID1	-0.1265	0.010635251
ILMN_1742238	SET	-0.2353	6.33E-07	ILMN_3310351	RNU6-15	0.1486	0.010681246
ILMN_2404795	SULT1A1	-0.3006	6.43E-07	ILMN_1803939	YIPF6	0.0900	0.010723030
ILMN_1776005	OSTC	0.3166	6.47E-07	ILMN_1723843	CSNK2A2	0.1088	0.010731222
ILMN_1745172	ILF2	-0.2612	6.62E-07	ILMN_1711516	ATP6V1A	-0.1386	0.010741392
ILMN_2123559	FAM73A	0.2940	6.63E-07	ILMN_2100000	DHX36	-0.1774	0.010797503
ILMN_2144162	FLJ25006	-0.1218	6.75E-07	ILMN_1725666	GTF2H3	-0.1478	0.010806942
ILMN_1672161	ARPP-21	-0.2464	6.76E-07	ILMN_3307863	TAOK3	0.1035	0.010823632
ILMN_2169439	ITGAV	-0.3152	6.77E-07	ILMN_2307598	SLC37A3	-0.1280	0.010955038
ILMN_2376847	PDE1A	0.4232	6.78E-07	ILMN_1807016	LHX2	0.1842	0.010980720
ILMN_2217329	IAH1	0.2867	6.84E-07	ILMN_1694731	CLCN7	0.1146	0.011005646
ILMN_2147105	LOC440348	-0.2007	6.86E-07	ILMN_3284114	LOC399748	-0.0846	0.011020118
ILMN_1662419	COX7A1	0.3767	6.89E-07	ILMN_2044572	TBC1D20	0.1053	0.011040488
ILMN_1776375	PIN1	-0.3088	6.90E-07	ILMN_2176251	C20orf72	0.1606	0.011077362
ILMN_2123415	BMP8B	1.0886	6.91E-07	ILMN_1801605	BIRC6	0.0980	0.011122458
ILMN_1785380	SLC1A2	0.3801	6.92E-07	ILMN_2182348	SMC3	0.1337	0.011159004
ILMN_1742250	CCNH	0.4607	6.92E-07	ILMN_2101651	MBTD1	0.1567	0.011183804
ILMN_1675788	ZNF175	-0.2315	7.00E-07	ILMN_1762615	FAM175B	0.1003	0.011248647
ILMN_2209163	CHD6	0.8100	7.10E-07	ILMN_1772132	ATP5B	-0.0717	0.011379366
ILMN_1694399	ICA1	-0.4492	7.13E-07	ILMN_1818149		0.2150	0.011390330
ILMN_1682494	RSRC1	-0.3952	7.28E-07	ILMN_1779428	LOC387856	-0.2905	0.011438567
ILMN_1730229	CGNL1	0.3949	7.32E-07	ILMN_3235113	TOMM6	-0.0819	0.011446088
ILMN_1695579	CIT	-0.2755	7.35E-07	ILMN_1696133	SELI	-0.1177	0.011481923
ILMN_1708081	LCLAT1	-0.3087	7.45E-07	ILMN_1704529	PPIA	-0.2437	0.011652794
ILMN_2335718	HNRNPAB	0.5348	7.49E-07	ILMN_1782567	GUCY1B3	-0.1957	0.011691121
ILMN_1802633	GABRA1	0.3539	7.54E-07	ILMN_1810531	DRG2	0.1206	0.011817993
ILMN_1744517	GNS	-0.3032	7.69E-07	ILMN_2287296	SYF2	0.1650	0.011867768
ILMN_1806147	GNB3	-0.3642	7.71E-07	ILMN_1785785	NCOA1	0.1290	0.011885704
ILMN_1803423	ARHGEF6	-0.3359	7.72E-07	ILMN_1759549	SRGAP2	-0.0978	0.011928425
ILMN_1726930	C5orf44	-0.4966	7.73E-07	ILMN_1810127	ZNF789	0.0994	0.011975816
ILMN_1714349	GLCE	-0.2086	7.77E-07	ILMN_2362681	CES2	0.1887	0.012089584
ILMN_1785161	CHCHD6	-0.2865	7.79E-07	ILMN_1652306	MEGF10	0.2874	0.012101033

ILMN_1680341	PPIE	0.5556	7.79E-07	ILMN_1771870	FAM98C	-0.1119	0.012128805
ILMN_1778134	TBRG1	-0.3264	7.82E-07	ILMN_3239925	LOC25845	0.1404	0.012155228
ILMN_1857081		-0.2205	7.83E-07	ILMN_2054019	ISG15	-0.2303	0.012156644
ILMN_1753586	CDH22	-0.5251	7.84E-07	ILMN_2289825	ARPP-21	-0.2440	0.012177982
ILMN_1695731	TUBG1	0.6476	7.97E-07	ILMN_1672987	LOC653596	0.1676	0.012185271
ILMN_1719611	CCT6A	0.4470	8.00E-07	ILMN_1754912	GLE1	0.0801	0.012232752
ILMN_1727165	LOC644852	0.2575	8.13E-07	ILMN_1801941	C1orf50	-0.0935	0.012325344
ILMN_1739943	SBNO1	0.4352	8.32E-07	ILMN_1748916	C18orf55	-0.0939	0.012344862
ILMN_1740426	RASD1	0.4492	8.35E-07	ILMN_1710906	RNF145	-0.1912	0.012391373
ILMN_1730611	RTN4	-0.1536	8.57E-07	ILMN_3215954	LOC653079	-0.1527	0.012394956
ILMN_2242403	DGUOK	0.3931	8.59E-07	ILMN_1777644	PIB5PA	-0.1804	0.012419381
ILMN_1738580	NR2E1	0.4644	8.63E-07	ILMN_1804479	MRPL18	-0.1096	0.012433558
ILMN_1791912	SIDT2	-0.4873	8.64E-07	ILMN_1839051		0.2152	0.012495415
ILMN_1705908	RPL7L1	0.2191	8.68E-07	ILMN_3181215	AGFG1	-0.1657	0.012501622
ILMN_1704873	TCEB1	0.8850	8.69E-07	ILMN_1797384	UROS	-0.1633	0.012577115
ILMN_2330845	NSF	0.3493	8.72E-07	ILMN_1729180	GATM	0.2464	0.012795197
ILMN_1729234	TPP1	-0.2082	8.73E-07	ILMN_3238326	RNF144A	0.1414	0.012851555
ILMN_1720606	LRCH2	-0.3486	8.79E-07	ILMN_2057399	ZBTB8OS	-0.1040	0.013071356
ILMN_1721626	ARID5B	0.2557	8.83E-07	ILMN_1799600	STARD8	0.2033	0.013135871
ILMN_1758915	PDCD2	-0.2995	8.94E-07	ILMN_2211672	TSNAX	-0.1938	0.013148173
ILMN_2054607	CYP4V2	-0.2366	8.99E-07	ILMN_1906110		-0.1229	0.013211962
ILMN_1671621	PCMT1	0.2946	9.07E-07	ILMN_1759766	CTXN1	-0.1670	0.013295031
ILMN_2181432	SPC24	-0.3380	9.13E-07	ILMN_1847308		0.0979	0.013305162
ILMN_1753719	GTF2A2	0.5998	9.14E-07	ILMN_1680353	NSF	-0.1030	0.013342248
ILMN_1748546	2-Sep	0.3854	9.18E-07	ILMN_1781231	SLC25A38	0.1252	0.013352436
ILMN_2227790	GRIN2C	-0.2738	9.21E-07	ILMN_1760256	RBM22	0.0833	0.013372679
ILMN_1764090	AK3L1	0.7555	9.23E-07	ILMN_3238889	RPRD2	0.1275	0.013381701
ILMN_3279712	LOC642590	0.2930	9.25E-07	ILMN_1655921	GTF2E1	-0.1010	0.013521580
ILMN_3224204	PSMG4	0.5449	9.32E-07	ILMN_1769671	RYK	0.1289	0.013543223
ILMN_2352097	GPR56	0.3427	9.34E-07	ILMN_2169676	ATXN10	-0.1358	0.013568787
ILMN_3285742	LOC100131786	0.3604	9.38E-07	ILMN_1781001	SOC3	0.1639	0.013590140
ILMN_2408080	SNAP25	0.5323	9.39E-07	ILMN_1741566	BMP7	0.2545	0.013610908
ILMN_1692116	LOC650321	-0.2263	9.44E-07	ILMN_2230162	FLJ44124	0.0800	0.013622466
ILMN_1755114	EIF2AK4	0.4188	9.47E-07	ILMN_1794632	POLR1B	0.1189	0.013627804
ILMN_1807633	HRSP12	0.7416	9.53E-07	ILMN_1661485	RBM34	-0.1008	0.013773084
ILMN_2094294	NR2E1	0.2358	9.68E-07	ILMN_1795435	ZNF264	0.1809	0.013792198
ILMN_2299072	CROP	-0.4341	9.75E-07	ILMN_3293843	LOC100132948	-0.1225	0.013828940
ILMN_2093748	ZNF669	-0.2733	9.78E-07	ILMN_1704760	BZW1	-0.2025	0.013837281
ILMN_1730516	TMEM133	-0.2621	9.81E-07	ILMN_2331636	ACACA	-0.0933	0.013924926
ILMN_3287058	LOC100132086	-0.2980	9.84E-07	ILMN_2227266	TMEM35	-0.2312	0.013979878
ILMN_1870041		-0.2276	1.01E-06	ILMN_1805395	LTBP3	0.1300	0.014177454
ILMN_1791332	ATP5O	-0.2414	1.01E-06	ILMN_1724666	INADL	0.1785	0.014216537
ILMN_2047885	PCDHB9	0.3128	1.01E-06	ILMN_1663954	TH1L	0.1101	0.014219314
ILMN_2170515	METTL11A	-0.2459	1.02E-06	ILMN_2311761	AP3S1	-0.1459	0.014304003
ILMN_2227011	ACSBG1	0.3907	1.03E-06	ILMN_1722022	MAGEE1	-0.2158	0.014356007
ILMN_2170949	SNX10	-0.3309	1.03E-06	ILMN_1715583	BOP1	-0.1159	0.014527228
ILMN_2332713	SLC25A3	-0.1495	1.03E-06	ILMN_2164242	UBE2F	-0.0704	0.014547826
ILMN_1799128	SLC30A9	-0.2820	1.04E-06	ILMN_1805448	EPB41L2	0.1248	0.014559252
ILMN_1725644	UBE2D2	-0.2732	1.04E-06	ILMN_1661490	PFDN6	-0.1137	0.014589922
ILMN_1701269	ATP5C1	0.2669	1.05E-06	ILMN_1785768	PDE4A	0.1276	0.014597174
ILMN_1733666	PLDN	-0.2374	1.06E-06	ILMN_2063584	CLIC4	0.3619	0.014617107
ILMN_1778617	TAF9	0.2192	1.09E-06	ILMN_2351466	NTM	0.0965	0.014650963
ILMN_1744403	KCNIP3	0.4372	1.09E-06	ILMN_1809944	TRMT12	-0.1021	0.014657944
ILMN_1805064	SCARNA9	-0.2465	1.09E-06	ILMN_1790472	SLC25A28	0.1372	0.014685991
ILMN_1752249	FAM38A	-0.2653	1.10E-06	ILMN_3237589	PHAX	-0.1100	0.014691976
ILMN_2062381	LCOR	-0.1914	1.11E-06	ILMN_1684346	TNFAIP8L1	-0.2121	0.014733302
ILMN_2062112	ZC3H15	-0.2578	1.12E-06	ILMN_1795227	DNCL1	-0.0767	0.014810666
ILMN_1777049	ZNF160	0.3227	1.12E-06	ILMN_1696767	SERP2	-0.1087	0.014818165

ILMN_2347798	IFI6	0.2879	1.13E-06	ILMN_1740706	PMP2	0.1972	0.014926668
ILMN_1665797	CSE1L	0.2267	1.14E-06	ILMN_2051408	PNPT1	0.0639	0.015067854
ILMN_1659564	SEC61A1	0.1703	1.17E-06	ILMN_3307950	CDK5RAP3	0.1305	0.015330842
ILMN_1745214	LOC642393	0.7809	1.19E-06	ILMN_1714083	KLHL8	-0.1172	0.015443182
ILMN_1733991	UBL7	-0.2442	1.19E-06	ILMN_2348503	PPIE	-0.1082	0.015462202
ILMN_1802611	SPEN	-0.2826	1.20E-06	ILMN_1676891	CDC2L6	0.1822	0.015510084
ILMN_1652806	ATP5J	0.4162	1.21E-06	ILMN_1706583	DLAT	-0.1609	0.015548863
ILMN_3188124	LOC100130511	-0.1668	1.22E-06	ILMN_1715969	SLC25A37	0.1771	0.015560835
ILMN_2316806	RWDD1	1.1574	1.22E-06	ILMN_1752755	VWF	0.3308	0.015566021
ILMN_1747968	RBM33	0.3719	1.24E-06	ILMN_1669433	KIAA0913	0.1498	0.015693346
ILMN_2214144	TWSG1	-0.1888	1.25E-06	ILMN_1767662	LASS6	-0.1633	0.015790917
ILMN_1666894	CSPG4	0.2585	1.25E-06	ILMN_1703433	PLSCR3	0.1262	0.015797048
ILMN_1876124		-0.3635	1.26E-06	ILMN_3283775	LOC100131205	-0.1455	0.015846541
ILMN_1759023	WFS1	-0.6877	1.27E-06	ILMN_1655422	RPL17	-0.1851	0.015926592
ILMN_2173004	RAB8B	-0.2219	1.29E-06	ILMN_1696839	RPS27	0.0800	0.015932884
ILMN_1804568	HOMER1	0.3135	1.29E-06	ILMN_2313851	OSBPL9	0.1134	0.015972277
ILMN_1810376	C11orf87	-0.2066	1.30E-06	ILMN_2096759	PSMC6	-0.1577	0.016041859
ILMN_1734695	MAP4	0.1753	1.30E-06	ILMN_2067709	TFB2M	-0.1514	0.016107321
ILMN_1664577	DLD	-0.2358	1.31E-06	ILMN_2153485	NMNAT3	0.1070	0.016160760
ILMN_1676423	CCNC	-0.2230	1.32E-06	ILMN_1749073	TCEAL5	-0.1197	0.016312008
ILMN_2213199	KIAA1712	-0.2855	1.35E-06	ILMN_1789505	ITPR1	-0.1957	0.016436165
ILMN_3295109	LOC653557	-0.2676	1.35E-06	ILMN_1718718	MKKS	-0.1235	0.016623004
ILMN_2292646	GAD1	-0.2086	1.36E-06	ILMN_2103480	ZNF320	0.1248	0.016643518
ILMN_1736054	SUB1	-0.2036	1.37E-06	ILMN_1675693	PPP2CB	-0.1786	0.016690472
ILMN_1800390	ZNF511	-0.4147	1.38E-06	ILMN_1677680	FGF12	-0.1730	0.016910429
ILMN_1711606	PRDX5	-0.2295	1.38E-06	ILMN_1684594	USP24	0.1028	0.016944074
ILMN_2407824	ATP1B1	0.2441	1.39E-06	ILMN_1721081	SP4	0.1048	0.016951220
ILMN_2206188	SHROOM4	-0.6629	1.39E-06	ILMN_1681845	PAPD4	-0.1566	0.017147526
ILMN_1665049	SPG11	-0.2879	1.40E-06	ILMN_2392286	IP6K1	0.1461	0.017152236
ILMN_1703178	SCG2	0.3779	1.40E-06	ILMN_1685371	SUMF2	-0.1707	0.017153603
ILMN_3209117	LOC644214	-0.2074	1.40E-06	ILMN_1806312	C20orf30	-0.0939	0.017401471
ILMN_2392352	CTPS2	0.5735	1.41E-06	ILMN_1685378	FAT1	0.2506	0.017465477
ILMN_3276016	LOC339843	0.5186	1.41E-06	ILMN_1778255	FARSA	-0.1453	0.017833400
ILMN_1705750	TGM2	-0.3499	1.42E-06	ILMN_1772492	MCART1	0.0656	0.017834404
ILMN_3288755	LOC646808	-0.3137	1.42E-06	ILMN_1785170	ARMCX2	-0.1366	0.017979481
ILMN_3290211	LOC644761	0.1979	1.43E-06	ILMN_3285198	LOC389168	-0.0734	0.018098030
ILMN_2270845	WDR74	-0.2748	1.46E-06	ILMN_1724194	NPEPL1	0.2226	0.018145591
ILMN_1736008	YRDC	-0.3896	1.46E-06	ILMN_1807177	KIAA1797	-0.1925	0.018145867
ILMN_1808122	LOC652377	0.2036	1.49E-06	ILMN_1726460	RPL14	0.2191	0.018265282
ILMN_2067708	TFB2M	0.4129	1.50E-06	ILMN_1900734		0.1431	0.018353239
ILMN_2347888	LARP4	-0.2468	1.51E-06	ILMN_3256926	LOC100130764	0.1802	0.018425542
ILMN_1684321	CYB5B	0.3071	1.52E-06	ILMN_1739257	EIF3E	0.0746	0.018472517
ILMN_2176882	ZNF69	-0.3345	1.53E-06	ILMN_1697166	C9orf78	0.0693	0.018485164
ILMN_1804735	CBS	0.3635	1.54E-06	ILMN_3307877	C21orf58	0.1369	0.018502812
ILMN_1680314	TXN	-0.5026	1.54E-06	ILMN_1812701	C4orf33	-0.1482	0.018559940
ILMN_2297710	PLEKHB2	-0.1810	1.55E-06	ILMN_2316104	IQCB1	-0.1650	0.018578823
ILMN_3244461	LRRC16A	0.2436	1.56E-06	ILMN_1721910	8-Sep	-0.2512	0.018654695
ILMN_1665331	AMT	0.2251	1.57E-06	ILMN_1732328	LOC646200	-0.0921	0.018706380
ILMN_1679083	ZNF93	0.2207	1.57E-06	ILMN_1774132	MAP6	-0.1487	0.018735403
ILMN_1687508	ALDH7A1	0.3472	1.58E-06	ILMN_1659845	KIAA0355	0.1643	0.018749405
ILMN_1706426	DSTN	-0.5584	1.59E-06	ILMN_1697267	PRKCZ	-0.1556	0.018793899
ILMN_1737586	LOC653994	-0.2811	1.60E-06	ILMN_1652024	CSNK1G3	-0.1456	0.018992131
ILMN_1666453	STK3	0.4824	1.63E-06	ILMN_2388507	AKT1	0.1501	0.019010314
ILMN_2122952	CISD1	-0.2319	1.67E-06	ILMN_1797531	PRKAG2	-0.1348	0.019054755
ILMN_3239895	LOC100134053	-0.2373	1.67E-06	ILMN_1745471	IRF9	0.1741	0.019058925
ILMN_1765966	CHGB	0.5860	1.68E-06	ILMN_1771139	FBXO31	0.1279	0.019167805
ILMN_1768282	SNX21	-0.2434	1.69E-06	ILMN_2321451	HNRNPD	0.0794	0.019194375
ILMN_2107613	RHOJ	-0.2020	1.71E-06	ILMN_1880387	AAK1	-0.2034	0.019277738

ILMN_1662417	LRPPRC	0.5091	1.72E-06	ILMN_1710756	ENO1	0.0894	0.019312101
ILMN_1706957	BMPRI1A	-0.4797	1.72E-06	ILMN_1706935	CCDC136	-0.1473	0.019436112
ILMN_3238491	LOC100129055	-0.3071	1.74E-06	ILMN_2381938	ATP2B2	-0.1860	0.019489443
ILMN_1720819	LOC653566	-0.1823	1.74E-06	ILMN_1657612	LOC285900	-0.0958	0.019502334
ILMN_1756982	CLIC1	0.3425	1.74E-06	ILMN_1745954	CORO1C	0.1060	0.019601261
ILMN_1803564	YIPF1	0.8259	1.75E-06	ILMN_3236556	UBXN2B	-0.1258	0.019644946
ILMN_1690999	MED23	0.2117	1.75E-06	ILMN_1750912	STXBP6	-0.1752	0.019686692
ILMN_2175094	TDRD1	-0.2435	1.76E-06	ILMN_3238707	SNORA8	-0.1713	0.019693129
ILMN_1670472	FAF2	-0.4337	1.76E-06	ILMN_1795937	VIL2	0.2506	0.019750429
ILMN_1766169	BCAT1	-0.1920	1.76E-06	ILMN_2055523	CSGALNACT1	0.1330	0.019819027
ILMN_2189993	MRPS35	-0.2760	1.77E-06	ILMN_1726169	EDF1	-0.0798	0.019884351
ILMN_2122953	CISD1	-0.3506	1.79E-06	ILMN_3292082	LOC642367	0.1189	0.020227901
ILMN_1762835	HELZ	0.2577	1.80E-06	ILMN_3210171	LOC389156	-0.1543	0.020254696
ILMN_1771261	SYNC1	-0.2977	1.81E-06	ILMN_1670134	FADS1	0.2603	0.020288186
ILMN_1662848	TXNDC15	0.1903	1.82E-06	ILMN_1677396	NDFIP2	-0.1280	0.020322980
ILMN_2151488	RMI1	-0.5108	1.82E-06	ILMN_3236481	LOC100129086	-0.1911	0.020327690
ILMN_1771800	PRKCA	-0.2841	1.83E-06	ILMN_1737084	TXLNA	0.0991	0.020352404
ILMN_1660519	C3orf70	-0.3613	1.84E-06	ILMN_1755749	PGK1	-0.1352	0.020367232
ILMN_3248966	MMADHC	-0.2758	1.86E-06	ILMN_1746085	IGFBP3	0.2847	0.020741900
ILMN_1705153	NEFH	-0.2653	1.88E-06	ILMN_1721116	USP10	-0.1121	0.020756569
ILMN_2124352	DCUN1D5	0.7314	1.89E-06	ILMN_1755033	C7orf51	-0.1291	0.020758357
ILMN_2148819	TUBA1A	-0.2211	1.90E-06	ILMN_3302499	LOC730990	0.1454	0.020889880
ILMN_1668027	LOC727762	0.3390	1.92E-06	ILMN_1750093	SDHALP1	0.1087	0.020954552
ILMN_1662316	VPS33A	-0.2454	1.92E-06	ILMN_3187470	LOC100129094	0.1383	0.021034205
ILMN_2200636	KIAA1267	-0.4188	1.95E-06	ILMN_2080158	FAM10A7	-0.1409	0.021085571
ILMN_1701386	STRADB	-0.4038	1.95E-06	ILMN_1739497	GTF2H5	-0.1016	0.021097775
ILMN_1660199	ACAA2	0.2658	1.99E-06	ILMN_2261519	AIRE	0.0664	0.021318549
ILMN_3243945	C13orf37	-0.1952	1.99E-06	ILMN_1685415	HBP1	0.1555	0.021326596
ILMN_2413780	SEZ6L2	0.2058	2.00E-06	ILMN_1737413	MSH2	-0.1488	0.021393429
ILMN_1677237	CHCHD9	-0.2511	2.02E-06	ILMN_1711189	EXOSC10	0.1228	0.021427110
ILMN_1709164	RUND2C	-0.3057	2.04E-06	ILMN_1764201	MAP2	-0.2664	0.021429080
ILMN_1734897	SLC4A4	-0.2423	2.08E-06	ILMN_1778457	IL18	0.0491	0.021739905
ILMN_1787314	ALS2CR14	-0.2210	2.12E-06	ILMN_1789240	MLST8	-0.1419	0.021776328
ILMN_2078724	C14orf153	-0.3297	2.15E-06	ILMN_1778683	RTN4RL1	-0.1470	0.021870426
ILMN_1666156	MORF4L2	0.3245	2.17E-06	ILMN_1740180	SNX3	-0.1146	0.021893487
ILMN_1810719	DCUN1D1	0.2613	2.20E-06	ILMN_3243890	NDUFA2	-0.0846	0.022001872
ILMN_1729599	GDPD1	-0.4753	2.21E-06	ILMN_1883298		0.1225	0.022199028
ILMN_2090105	TAGLN2	0.3963	2.22E-06	ILMN_1651705	CAT	0.2285	0.022364009
ILMN_2171640	ZNF650	0.3467	2.23E-06	ILMN_1799367	TXNDC14	-0.0872	0.022487753
ILMN_2409167	ANXA2	0.4928	2.26E-06	ILMN_1766222	LARP4B	0.0883	0.022569342
ILMN_1695745	DISP1	0.2202	2.30E-06	ILMN_1655311	LOC145853	-0.1303	0.022611489
ILMN_3245074	LOC646916	-0.2577	2.31E-06	ILMN_1752333	SLC35E1	-0.0991	0.022690923
ILMN_1704195	FUK	-0.2853	2.31E-06	ILMN_1733757	LOC374395	0.2044	0.022698953
ILMN_1696339	ZIC2	0.2113	2.31E-06	ILMN_1717313	NFKBIE	-0.1580	0.022826838
ILMN_2402416	DNAJB6	-0.3204	2.37E-06	ILMN_1797342	FNBP1	0.1940	0.022865303
ILMN_2078547	HSPC268	0.2765	2.38E-06	ILMN_1691413	NNAT	-0.2522	0.023006519
ILMN_2385097	NDRG3	0.7711	2.38E-06	ILMN_1661717	TFDP1	-0.0873	0.023012403
ILMN_2361570	SNX14	0.5102	2.39E-06	ILMN_1705617	CFL1	-0.0724	0.023117584
ILMN_1654497	ATAD1	-0.2544	2.42E-06	ILMN_1664922	FLNB	0.1823	0.023164534
ILMN_1691499	TJP1	-0.3010	2.43E-06	ILMN_1690392	COMMD3	-0.0921	0.023165174
ILMN_1666597	PIAKB	-0.4397	2.46E-06	ILMN_2412139	CABYR	-0.1860	0.023294945
ILMN_3223500	LOC728903	0.1900	2.57E-06	ILMN_1696254	CYB5D2	-0.1035	0.023431069
ILMN_1716019	RHBDL3	0.8638	2.59E-06	ILMN_3246538	LOC100133866	0.1141	0.023617788
ILMN_1743303	TTC1	0.6367	2.61E-06	ILMN_1745655	PEX16	-0.1241	0.023627581
ILMN_1762115	CRYZL1	-0.1392	2.62E-06	ILMN_1705151	SF3A3	0.1065	0.023758854
ILMN_1701483	SYP	-0.2384	2.62E-06	ILMN_1800889	FIG4	-0.1413	0.023783722
ILMN_1762606	AQP11	-0.2622	2.64E-06	ILMN_1653856	STS-1	-0.2329	0.023943098
ILMN_2048793	CIAO1	-0.3028	2.65E-06	ILMN_1765326	DGKD	0.1315	0.024003645

ILMN_1768271	SMAP1	0.1840	2.66E-06	ILMN_1796458	GABARAPL2	-0.0981	0.024004337
ILMN_3248803	LOC729680	-0.2010	2.69E-06	ILMN_1707434	LOC653778	0.1211	0.024185217
ILMN_3188110	C19orf60	-0.3386	2.69E-06	ILMN_2367070	ACOT9	0.1071	0.024198659
ILMN_1801913	PIIH	-0.2661	2.70E-06	ILMN_1685097	ASCC1	0.1680	0.024298347
ILMN_1689456	ZBTB20	-0.2197	2.73E-06	ILMN_1856634		0.1964	0.024510484
ILMN_1810436	DNAJC27	-0.2029	2.73E-06	ILMN_1715832	PIK3R4	-0.1138	0.024642493
ILMN_2125747	LOC606724	-0.5945	2.75E-06	ILMN_3243644	LOC100132564	0.3908	0.024717640
ILMN_1704793	MYPOP	0.5565	2.76E-06	ILMN_1803256	STOX2	0.0942	0.024755773
ILMN_1768784	PSMC2	-0.4258	2.76E-06	ILMN_1793673	ZNF766	0.0980	0.024907570
ILMN_1730794	SERTAD4	-0.3456	2.78E-06	ILMN_3245006	C12orf68	-0.1951	0.025279936
ILMN_1683888	SRP72	0.4253	2.79E-06	ILMN_1677440	ATP6AP2	-0.0989	0.025418148
ILMN_2157435	DYNLRB1	-0.3652	2.82E-06	ILMN_1703305	TWF2	-0.1233	0.025498234
ILMN_1701434	RAP1B	-0.2132	2.84E-06	ILMN_2191720	ZNF471	0.1615	0.025526971
ILMN_1797310	ATP6V1D	0.2848	2.86E-06	ILMN_1761797	CSTB	0.1120	0.025573720
ILMN_1700975	ENSA	-0.2299	2.89E-06	ILMN_1710315	NOS1AP	0.1621	0.025621167
ILMN_2081398	KIF3B	-0.4479	2.92E-06	ILMN_3310035	MIR2116	0.1328	0.025675508
ILMN_1730539	NPHP3	0.3141	2.92E-06	ILMN_2283915	MAP2	-0.1945	0.025726164
ILMN_2371055	EFNA1	-0.2560	2.93E-06	ILMN_1773868	U2AF1L2	0.1241	0.025770609
ILMN_1797813	SUZ12	-0.1664	2.93E-06	ILMN_2347314	ARNT	0.0982	0.025793741
ILMN_1747058	TRAPP2L	-0.1867	2.97E-06	ILMN_1745329	PRR14	0.1077	0.025816053
ILMN_1754864	SLC25A18	-0.3882	2.97E-06	ILMN_2148452	BCAS2	-0.1514	0.025863160
ILMN_2279834	ZNF483	0.2219	2.97E-06	ILMN_1771523	PRKACB	-0.2088	0.025887532
ILMN_2095840	MYST3	0.5272	2.98E-06	ILMN_1779852	LOC387934	0.1692	0.025897439
ILMN_1669881	TSPAN13	0.7008	2.99E-06	ILMN_1706706	WDR68	-0.1483	0.025945656
ILMN_3294106	LOC100190938	-0.2431	3.00E-06	ILMN_1712400	SERPINB6	0.1807	0.025984395
ILMN_1772489	SDCCAG1	-0.2184	3.02E-06	ILMN_2378048	HNRPK	-0.1257	0.026293357
ILMN_1726786	TNRC6B	-0.5705	3.02E-06	ILMN_1671928	PROS1	0.1575	0.026331542
ILMN_2103014	CCDC104	-0.2594	3.03E-06	ILMN_2145250	NACAP1	-0.1214	0.026346768
ILMN_1782247	KAT2A	-0.1635	3.06E-06	ILMN_2350357	ZNF254	0.1174	0.026395078
ILMN_1768127	EBNA1BP2	-0.2962	3.07E-06	ILMN_1660551	CRAMP1L	0.0963	0.026595925
ILMN_1739222	ETV5	0.2445	3.12E-06	ILMN_2082130	C1orf123	-0.1078	0.026656830
ILMN_1810423	RPP40	0.3645	3.16E-06	ILMN_1771903	NUP37	0.1173	0.026700775
ILMN_1723729	RSL1D1	0.7464	3.18E-06	ILMN_1667883	THOC5	-0.1315	0.026746575
ILMN_1704665	GPM6B	-0.2110	3.19E-06	ILMN_1728074	PHAX	-0.1203	0.026823648
ILMN_1696383	POP4	0.2561	3.19E-06	ILMN_1758543	CNIH	-0.1179	0.026922889
ILMN_3206804	LOC255167	0.3218	3.21E-06	ILMN_3250032	XPR1	-0.1444	0.026979019
ILMN_1910948		0.2513	3.25E-06	ILMN_1682449	ZNF518B	0.1250	0.027036818
ILMN_1687724	RAP1GDS1	-0.1735	3.26E-06	ILMN_3246388	MED14	0.1152	0.027087007
ILMN_1726547	MAP3K5	-0.2346	3.27E-06	ILMN_2124187	TSC22D2	0.1172	0.027134635
ILMN_3247018	SNORA67	0.3196	3.28E-06	ILMN_1726359	NECAP1	-0.1526	0.027157213
ILMN_3235109	STXBP5L	-0.3434	3.29E-06	ILMN_2151818	PSMA6	-0.0890	0.027165827
ILMN_1762167	GTDC1	-0.2325	3.29E-06	ILMN_1732066	CKMT1A	-0.2152	0.027253693
ILMN_1651347	SERTAD2	-0.1711	3.30E-06	ILMN_1717799	PRKCE	-0.2026	0.027265237
ILMN_1788416	FAM108C1	0.4159	3.31E-06	ILMN_1810805	HEATR5B	-0.1194	0.027419644
ILMN_1753823	IL17D	-0.2046	3.33E-06	ILMN_1677530	LOC728944	0.1026	0.027579677
ILMN_1728057	C6orf57	-0.3116	3.34E-06	ILMN_1677484	SNAPC4	0.1276	0.027591233
ILMN_2079386	RPL22	-0.3469	3.35E-06	ILMN_1683678	SPATS2L	-0.1108	0.027676852
ILMN_2367743	TUBG1	-0.2357	3.36E-06	ILMN_1806122	CHD8	0.1409	0.028401048
ILMN_1740265	ACOT7	0.5104	3.50E-06	ILMN_3249748	LDHA	-0.2029	0.028457314
ILMN_3251944	LOC100130598	-0.2351	3.52E-06	ILMN_1657451	SRPK2	-0.2361	0.028487552
ILMN_2390472	TTC14	0.2428	3.54E-06	ILMN_1791119	NDUFA10	-0.1230	0.028559234
ILMN_2043615	C17orf90	0.2365	3.54E-06	ILMN_2339863	VPS28	-0.0965	0.028569213
ILMN_2233366	ASAP1	1.0761	3.55E-06	ILMN_2127897	DDX25	-0.1744	0.028770669
ILMN_2400297	MAPK9	-0.2260	3.55E-06	ILMN_2307450	ZNF302	0.0910	0.028894277
ILMN_1661039	MRPL30	-0.2981	3.55E-06	ILMN_1665066	C4orf14	-0.0992	0.028895567
ILMN_1669033	NCOA1	0.4772	3.56E-06	ILMN_1728512	YWHAH	-0.0673	0.028896261
ILMN_1811221	SLC5A8	-0.2314	3.57E-06	ILMN_1713450	MYL6B	-0.1240	0.02898719
ILMN_3200830	LOC649553	-0.2195	3.60E-06	ILMN_3244935	LOC100130308	-0.1240	0.029319638

ILMN_1690099	ITGB1BP1	-0.6013	3.61E-06	ILMN_1776104	NDUFS5	-0.0863	0.029338720
ILMN_2061419	CYCSL1	0.3473	3.65E-06	ILMN_2214678	MXD1	0.1141	0.029450305
ILMN_2364521	AXL	-0.2347	3.69E-06	ILMN_1737205	MCM4	-0.1347	0.029675721
ILMN_1789830	CFLAR	-0.2003	3.69E-06	ILMN_1785646	PMP22	0.3288	0.029754669
ILMN_2047112	RP11-529110.4	-0.2020	3.71E-06	ILMN_3209832	LOC100131801	-0.0795	0.029858109
ILMN_1655444	LOC728492	-0.2971	3.71E-06	ILMN_1708805	NCOA3	0.1021	0.029912479
ILMN_1810785	RNF11	0.6430	3.75E-06	ILMN_2229242	LSM3	-0.1144	0.029998428
ILMN_3281651	LOC654350	-0.3598	3.76E-06	ILMN_3284447	LOC647150	-0.1404	0.030275907
ILMN_1770610	MERTK	-0.1752	3.77E-06	ILMN_1760441	MRPS5	-0.0999	0.030323650
ILMN_1672094	DLX1	-0.8491	3.82E-06	ILMN_1755926	DBI	0.2120	0.030478638
ILMN_1679324	EIF1B	0.4083	3.86E-06	ILMN_2384544	ADAM15	0.1633	0.030584452
ILMN_1815666	ATP2A2	-0.2483	3.89E-06	ILMN_1736888	SAR1B	0.1864	0.030592652
ILMN_1673026	CHCHD3	0.5380	3.91E-06	ILMN_1683811	TNPO3	0.1493	0.031244397
ILMN_2123402	TMEM4	0.1935	3.92E-06	ILMN_1788053	SLC25A12	-0.2020	0.031298812
ILMN_2347805	EXOC1	-0.1979	3.92E-06	ILMN_1705928	SNRNP200	0.1190	0.031678853
ILMN_2409062	ISCU	0.2615	3.98E-06	ILMN_1703123	AXUD1	0.2703	0.031694577
ILMN_2404063	APP	-0.4042	4.00E-06	ILMN_1742073	ADCY1	-0.2119	0.031806254
ILMN_3250273	TMOD2	0.5078	4.01E-06	ILMN_2290808	RPL21	-0.1318	0.031849708
ILMN_1695945	MEIS2	-0.2004	4.01E-06	ILMN_3306168	MOBK13	-0.1324	0.032032236
ILMN_1716563	PRKCB1	-0.2476	4.04E-06	ILMN_3213692	LOC441073	-0.1411	0.032111423
ILMN_1799688	CDC23	-0.2156	4.08E-06	ILMN_1670970	PPP3CA	-0.2028	0.032289011
ILMN_2109156	RANBP1	0.5496	4.17E-06	ILMN_1721713	EXOSC9	-0.1035	0.032295699
ILMN_1775486	SSPN	-0.4140	4.18E-06	ILMN_1811632	FMO5	0.1432	0.032320897
ILMN_3246255	LOC100133516	0.3118	4.19E-06	ILMN_1656045	BRUNOL6	-0.1267	0.032447437
ILMN_1715968	MLL4	-0.1992	4.20E-06	ILMN_1734880	LOC644128	0.1531	0.032454098
ILMN_1769520	UBE2L6	-0.1855	4.22E-06	ILMN_3248941	C6orf225	0.1603	0.032586392
ILMN_1672843	FBXO8	-0.1756	4.22E-06	ILMN_1798081	PTPRF	0.1103	0.032725052
ILMN_1656934	REPS2	-0.2375	4.26E-06	ILMN_1761722	ZNF579	0.0895	0.032834165
ILMN_3239766	FKBP1P1	-0.2843	4.27E-06	ILMN_1744316	TATDN3	-0.1625	0.032878570
ILMN_1809488	SPCS2	0.3598	4.29E-06	ILMN_3205910	LOC100131541	0.1512	0.032898688
ILMN_1718961	BNIP3L	-0.2468	4.29E-06	ILMN_3280847	LOC651697	0.1073	0.032927273
ILMN_1719986	PIK3IP1	-0.1758	4.31E-06	ILMN_1751234	C1GALT1C1	-0.1101	0.032945494
ILMN_1770742	TMEM55B	-0.3694	4.32E-06	ILMN_2214603	PPP2R3C	-0.1280	0.032988488
ILMN_2323048	ERP29	-0.3058	4.34E-06	ILMN_1676393	ATP5G1	-0.1208	0.033132386
ILMN_3285959	LOC645515	0.5467	4.39E-06	ILMN_1673795	HSD17B4	0.1167	0.033132615
ILMN_1741954	SMYD3	0.5585	4.42E-06	ILMN_2319414	BTF3	-0.0699	0.033300663
ILMN_1721621	NKTR	0.8029	4.44E-06	ILMN_2279339	WTAP	0.1077	0.033381325
ILMN_3261345	LOC100130053	-0.2574	4.46E-06	ILMN_1687652	TGFB3	0.2971	0.033477797
ILMN_2372403	ALDH5A1	-0.3785	4.47E-06	ILMN_1749297	ACTL6A	0.2179	0.033501056
ILMN_2097410	DAPP1	0.3528	4.48E-06	ILMN_1748281	MAPK10	-0.1536	0.033546589
ILMN_1801664	POLR3K	0.3191	4.48E-06	ILMN_2136010	ADH4	0.1860	0.033601102
ILMN_3245380	ZNF860	-0.2821	4.53E-06	ILMN_2389155	UGP2	-0.1579	0.033602597
ILMN_1891857		-0.2502	4.61E-06	ILMN_2341487	C11orf49	-0.1332	0.033675537
ILMN_1814998	FKSG30	-0.2586	4.63E-06	ILMN_1709396	PDCD10	-0.1217	0.033933454
ILMN_1792078	RNF114	-0.2136	4.64E-06	ILMN_1772627	D4S234E	-0.1898	0.033966145
ILMN_3244319	CCDC125	0.2396	4.65E-06	ILMN_1734602	SRRM2	0.1346	0.034069753
ILMN_1690443	C14orf82	-0.2398	4.67E-06	ILMN_1740927	LYRM4	-0.1215	0.034205117
ILMN_2347068	MKNK2	0.2905	4.69E-06	ILMN_1727790	KHDRBS3	-0.1626	0.034901021
ILMN_1671260	GPR177	0.2780	4.73E-06	ILMN_1666222	PHACTR3	0.1111	0.035218359
ILMN_1722532	JMJD1A	0.5160	4.84E-06	ILMN_2134039	ACN9	-0.1187	0.035237945
ILMN_1706326	MRPL33	-0.4351	4.85E-06	ILMN_1669617	GRB10	-0.1138	0.035491091
ILMN_1695110	BCAT2	0.3890	4.88E-06	ILMN_1688158	CYB5R4	-0.1289	0.035876521
ILMN_1685124	TCTN1	-0.1915	4.89E-06	ILMN_3247906	RNF114	0.1163	0.036080878
ILMN_1787026	SEC61G	0.5069	4.90E-06	ILMN_1702265	HDHD2	-0.0779	0.036184469
ILMN_1713347	CHL1	-0.2375	4.92E-06	ILMN_2395974	PRDX3	-0.1689	0.036301102
ILMN_2346137	ZNF557	-0.2950	4.97E-06	ILMN_1786039	RNF34	0.0714	0.036364525
ILMN_1715963	FBXO7	-0.3066	5.03E-06	ILMN_1685781	C14orf142	-0.1265	0.036391643
ILMN_1782579	IMMT	0.2846	5.07E-06	ILMN_1676503	LOC643446	-0.1275	0.036599733

ILMN_1665243	FKBP14	-0.3813	5.08E-06	ILMN_1770811	PELO	-0.1161	0.036672163
ILMN_1671661	HSD17B7	0.2184	5.13E-06	ILMN_3244240	LOC646476	0.0985	0.036699072
ILMN_1734316	YME1L1	-0.1749	5.18E-06	ILMN_1745573	TTC13	-0.1162	0.036872772
ILMN_1802669	PPP3CB	0.1940	5.19E-06	ILMN_3280943	LOC389156	-0.1506	0.036999211
ILMN_3235410	HIATL2	0.4135	5.22E-06	ILMN_1763144	NEU1	-0.1149	0.037024239
ILMN_3248511	FAM167A	0.5867	5.33E-06	ILMN_2356838	CEPT1	0.1111	0.037142904
ILMN_3269775	C14orf109	-0.1966	5.35E-06	ILMN_1783285	CTPS	-0.1387	0.037268586
ILMN_1681890	DYNLT3	-0.2001	5.36E-06	ILMN_2365569	ICA1	-0.1865	0.037369121
ILMN_1803180	PRDX6	0.3816	5.38E-06	ILMN_1798164	PHF3	0.1194	0.037430346
ILMN_2155322	ZNF652	0.4475	5.40E-06	ILMN_2060770	RAI1	-0.1114	0.037473478
ILMN_2162328	PTS	0.5440	5.41E-06	ILMN_1777881	TSPAN17	-0.1754	0.037565509
ILMN_1804007	NANOS3	-0.3970	5.44E-06	ILMN_1803279	TMED5	0.1697	0.037664068
ILMN_1652215	LOC644310	0.3880	5.55E-06	ILMN_2061318	TAF13	-0.1717	0.037727540
ILMN_2343332	TAF9	-0.3625	5.56E-06	ILMN_3299187	LOC728782	-0.1444	0.037821392
ILMN_1714710	CCDC120	0.7438	5.56E-06	ILMN_1652762	HIC2	0.1565	0.037830831
ILMN_1665781	LOC390466	-0.2227	5.66E-06	ILMN_1782749	ZNF468	0.0974	0.038201652
ILMN_1715901	FBXL17	0.4684	5.68E-06	ILMN_1701052	TUBG2	-0.1498	0.038316584
ILMN_3289262	LOC100131261	-0.3383	5.69E-06	ILMN_2064917	AGGF1	-0.1379	0.038810999
ILMN_1708095	PANK2	0.6457	5.73E-06	ILMN_1720059	HMBBOX1	0.2338	0.038916945
ILMN_1713161	USP16	0.3495	5.76E-06	ILMN_1763447	PLXNB2	0.1628	0.038927736
ILMN_1760890	SEPN1	0.2181	5.78E-06	ILMN_1703891	TBC1D9	-0.1908	0.039006591
ILMN_1812640	AHR	0.2304	5.85E-06	ILMN_1802557	HEBP1	0.1150	0.039064405
ILMN_1726456	SLC3A2	-0.2045	5.99E-06	ILMN_1755366	LOC652730	-0.1399	0.039282955
ILMN_2125374	CMAS	0.2477	6.00E-06	ILMN_1743829	ATXN2	0.0681	0.039304272
ILMN_1730464	DNAL1	-0.2425	6.05E-06	ILMN_3301585	LOC730993	0.1730	0.039377818
ILMN_1754179	AP1G2	-0.3565	6.06E-06	ILMN_1694233	ACYP1	-0.1356	0.039514275
ILMN_2172202	NUDT15	0.2047	6.10E-06	ILMN_1787823	LOC727948	0.2050	0.039527283
ILMN_1798581	MCM8	-0.2026	6.13E-06	ILMN_2310621	ATP5J2	-0.0880	0.039872203
ILMN_1758784	ATP2C1	-0.2709	6.20E-06	ILMN_1776653	SCML1	0.1616	0.039874343
ILMN_1726306	HMBS	0.5878	6.24E-06	ILMN_1727633	PVRL3	-0.1852	0.040002661
ILMN_2066348	HERPUD2	-0.2353	6.25E-06	ILMN_1656951	APCDD1	0.2646	0.040393655
ILMN_2370091	NGFRAP1	-0.3006	6.26E-06	ILMN_1795428	WDR59	0.0942	0.040698806
ILMN_1712786	AHCYL2	0.3166	6.31E-06	ILMN_2393544	PRMT2	-0.0987	0.040841017
ILMN_1664216	NKIRAS1	-0.2612	6.32E-06	ILMN_2341067	NLGN4X	0.1120	0.041287408
ILMN_1779343	SNCB	0.2940	6.33E-06	ILMN_1812297	CYP26B1	-0.2406	0.041418553
ILMN_3304850	LOC730098	-0.1218	6.34E-06	ILMN_1801105	PRKCD	-0.1934	0.041558624
ILMN_1660292	MRPS21	-0.2464	6.36E-06	ILMN_1803073	DNAJC12	-0.1603	0.041693131
ILMN_3181695	LOC100130178	-0.3152	6.46E-06	ILMN_2115218	ANKRD10	0.1114	0.042202736
ILMN_1732810	SNX17	0.4232	6.54E-06	ILMN_1804854	CTNNA1	0.1375	0.042336153
ILMN_2220184	GFPT1	0.2867	6.57E-06	ILMN_3264112	LOC100129362	0.0650	0.042478432
ILMN_1656145	GOT1	-0.2007	6.57E-06	ILMN_2342121	PSMD13	-0.0904	0.042698959
ILMN_1809750	TDRD1	0.3767	6.67E-06	ILMN_1652409	SPATA7	-0.1679	0.042801568
ILMN_3305169	LOC728809	-0.3088	6.68E-06	ILMN_1798249	AK3L1	0.2051	0.042919810
ILMN_1686811	LOC402644	1.0886	6.76E-06	ILMN_2406169	PKIG	-0.1262	0.043040838
ILMN_1801348	GOT2	0.3801	6.79E-06	ILMN_3268403	LOC100128252	-0.1267	0.043417394
ILMN_1750599	ATP2B1	0.4607	6.85E-06	ILMN_3247023	FLJ22536	-0.2104	0.043458184
ILMN_1743187	C6orf120	-0.2315	6.90E-06	ILMN_1778734	MTMR10	0.0975	0.043555124
ILMN_1679382	CCT2	0.8100	7.04E-06	ILMN_2126038	STMN2	-0.1196	0.043945379
ILMN_1658071	ATP1B1	-0.4492	7.10E-06	ILMN_1747775	STX2	0.0978	0.043973402
ILMN_1687213	C8orf13	-0.3952	7.16E-06	ILMN_1774844	MAPKAPK2	0.1040	0.044030959
ILMN_2277676	ERCC1	0.3949	7.17E-06	ILMN_1781155	LYN	0.2415	0.044095249
ILMN_1796245	DNASE2	-0.2755	7.18E-06	ILMN_1689119	ZC3H5	0.1186	0.044242770
ILMN_3243664	LOC440353	-0.3087	7.18E-06	ILMN_2043809	PFKM	-0.1423	0.044601501
ILMN_2331062	CBFA2T2	0.5348	7.21E-06	ILMN_1820295		0.1829	0.044701396
ILMN_1748904	WTAP	0.3539	7.21E-06	ILMN_1815141	LOC149448	0.1116	0.044827789
ILMN_1780496	MGC12760	-0.3032	7.29E-06	ILMN_1886769		0.1142	0.044895437
ILMN_2110751	CHRNA5	-0.3642	7.31E-06	ILMN_1778360	PYGB	0.1712	0.044965094
ILMN_1783681	MRPL34	-0.3359	7.33E-06	ILMN_1761721	VPS35	-0.1204	0.045009692

ILMN_1715804	PITPNA	-0.4966	7.33E-06	ILMN_1794056	DNAJB5	-0.1530	0.045231188
ILMN_1720282	NQO1	-0.2086	7.34E-06	ILMN_3224907	LOC728672	0.0796	0.045290856
ILMN_1658425	DAG1	-0.2865	7.35E-06	ILMN_1754114	FLJ20021	-0.1553	0.045301116
ILMN_3187357	LOC100130746	0.5556	7.38E-06	ILMN_1815190	METTL1	-0.0953	0.045350367
ILMN_1736078	THBS4	-0.3264	7.47E-06	ILMN_1756311	UFSP2	-0.0948	0.045364131
ILMN_3249419	LOC728457	-0.2205	7.60E-06	ILMN_1667577	LCMT2	-0.1077	0.045509238
ILMN_1680507	PPP2R2C	-0.5251	7.65E-06	ILMN_1685156	ADCY6	0.1392	0.045750475
ILMN_1658337	AKIRIN1	0.6476	7.67E-06	ILMN_1704385	LOC347376	0.1388	0.046415939
ILMN_1693789	ALPP	0.4470	7.69E-06	ILMN_1656016	DHX9	-0.1372	0.046515157
ILMN_1732717	FAM71E1	0.2575	7.72E-06	ILMN_1708147	TBPL1	-0.1173	0.046733436
ILMN_2179397	TATDN1	0.4352	7.75E-06	ILMN_2087989	ZFAND1	-0.1642	0.046951181
ILMN_3211906	LOC647030	0.4492	7.85E-06	ILMN_1798533	ZNF22	0.1170	0.047280192
ILMN_1680279	USP49	-0.1536	7.97E-06	ILMN_1668683	MLL	0.1225	0.047314506
ILMN_1745813	KIAA1279	0.3931	7.97E-06	ILMN_1737972	TSPYL5	-0.1601	0.047559797
ILMN_1757074	GNG10	0.4644	7.99E-06	ILMN_1689446	EIF3G	-0.1179	0.048225421
ILMN_1707464	MST1	-0.4873	8.09E-06	ILMN_1696702	NEO1	0.1803	0.048412080
ILMN_2398408	TCEAL1	0.2191	8.20E-06	ILMN_1775829	PERP	0.1710	0.048579864
ILMN_1751452	NDFIP1	0.8850	8.20E-06	ILMN_1752303	YY1AP1	0.0735	0.048755108
ILMN_1654737	TRIM32	0.3493	8.47E-06	ILMN_2328280	ACTL6A	0.2246	0.048776147
ILMN_1803429	CD44	-0.2082	8.60E-06	ILMN_1655206	ZBTB34	0.0982	0.048820659
ILMN_1805827	PPA1	-0.3486	8.64E-06	ILMN_1707156	LRRFIP2	0.1108	0.049052207
ILMN_1656134	CNOT7	0.2557	8.66E-06	ILMN_1652434	MTHFD2L	0.1376	0.049079223
ILMN_1707901	DHRS7B	-0.2995	8.71E-06	ILMN_1780887	USP21	0.1188	0.049212023
ILMN_3265143	LOC100129502	-0.2366	8.74E-06	ILMN_2368971	PSMD12	-0.1250	0.049216965
ILMN_2355831	FHL2	0.2946	8.76E-06	ILMN_1811050	CCDC88A	0.1426	0.049657267
ILMN_1776586	RPL26L1	-0.3380	8.78E-06				

Supplemental Table B3 | **Genes differentially expressed in the DLPFC of “type 2” schizophrenics relative to controls.** NIMH cohort. P-values are Bonferroni-corrected for the number of probes on the array which detect transcripts at a level greater than noise. A P-value of "0" indicated that the P-value is within floating point precision of 0 ($< 2 \times 10^{-16}$).

	Symbol	Beta	P Value
ILMN_1659766	BAG3	1.1574	≈0
ILMN_1775170	MT1X	1.0886	≈0
ILMN_1707727	ANGPTL4	1.0761	≈0
ILMN_2129572	F3	0.8850	≈0
ILMN_1684982	PDK4	0.8638	≈0
ILMN_1801616	EMP1	0.8610	1.1e-11
ILMN_1708934	ADM	0.8555	1.8e-11
ILMN_1782788	CSDA	0.8259	≈0
ILMN_1805750	IFITM3	0.8100	≈0
ILMN_2350634	EFEMP1	0.8057	4.3e-10
ILMN_1782050	CEBPD	0.8029	0.0e+00
ILMN_1723522	APOLD1	0.7976	2.3e-09
ILMN_1673352	IFITM2	0.7809	≈0
ILMN_1661599	DDIT4	0.7711	≈0
ILMN_1803429	CD44	0.7625	8.6e-06
ILMN_2105919	FGF2	0.7555	0.0e+00
ILMN_1805466	SOX9	0.7464	0.0e+00
ILMN_2408683	PPAP2B	0.7457	1.1e-11
ILMN_1732410	SLC16A9	0.7438	≈0
ILMN_1686664	MT2A	0.7416	≈0
ILMN_1888359	BMPR1B	0.7314	≈0
ILMN_2357855	NTRK2	0.7088	2.4e-11
ILMN_1757338	PLSCR4	0.7008	≈0
ILMN_2388800	PPAP2B	0.6855	2.6e-12
ILMN_2094856	RANBP3L	0.6586	5.0e-11

Supplemental Table B4 | **The 25 Illumina probes detecting transcripts which are most up-regulated in the DLPFC of “type 2” schizophrenics.** NIMH cohort. P-values are Bonferroni-corrected for the number of probes on the array which detect transcripts at a level greater than noise. A P-value of "0" indicated that the P-value is within floating point precision of 0 ($< 2 \times 10^{-16}$).

	Symbol	Beta	P Value
ILMN_1731062	NPY	-0.8491	≈0
ILMN_3243185	RERGL	-0.6877	≈0
ILMN_1765701		-0.6629	≈0
ILMN_2281786	RTN1	-0.6374	1.4e-08
ILMN_1722559	NEUROD6	-0.6013	≈0
ILMN_1674778	ATP6V1G2	-0.5945	≈0
ILMN_1680687	NSF	-0.5880	1.3e-11
ILMN_1760779	ENSA	-0.5705	≈0
ILMN_2364700	ENSA	-0.5584	≈0
ILMN_2316173	AP1S1	-0.5251	≈0
ILMN_1731616	DCLK1	-0.5242	5.7e-10
ILMN_2381758	G3BP2	-0.5188	4.7e-10
ILMN_1770653	MAL2	-0.5167	7.0e-08
ILMN_3238319	BEND6	-0.5108	≈0
ILMN_1779241	CRYM	-0.5026	≈0
ILMN_2384409	TAC1	-0.4966	≈0
ILMN_2334765	ARMCX3	-0.4873	≈0
ILMN_3239871		-0.4843	1.0e-09
ILMN_1680154	MAP1B	-0.4808	1.2e-04
ILMN_1751345	AP1S1	-0.4797	≈0
ILMN_1757497	VGF	0.4753	≈0
ILMN_1752741	TRIM23	-0.4724	2.6e-12
ILMN_1708672	ACAT2	-0.4703	≈0
ILMN_1661366	PGAM1	-0.4653	5.5e-10
ILMN_1716988	OPN3	-0.4626	1.9e-09

Supplemental Table B5 | **The 25 Illumina probes detecting transcripts which are most down-regulated in the DLPFC of “type 2” schizophrenics.** NIMH cohort. P-values are Bonferroni-corrected for the number of probes on the array which detect transcripts at a level greater than noise. A P-value of "0" indicated that the P-value is within floating point precision of 0 ($< 2 \times 10^{-16}$).