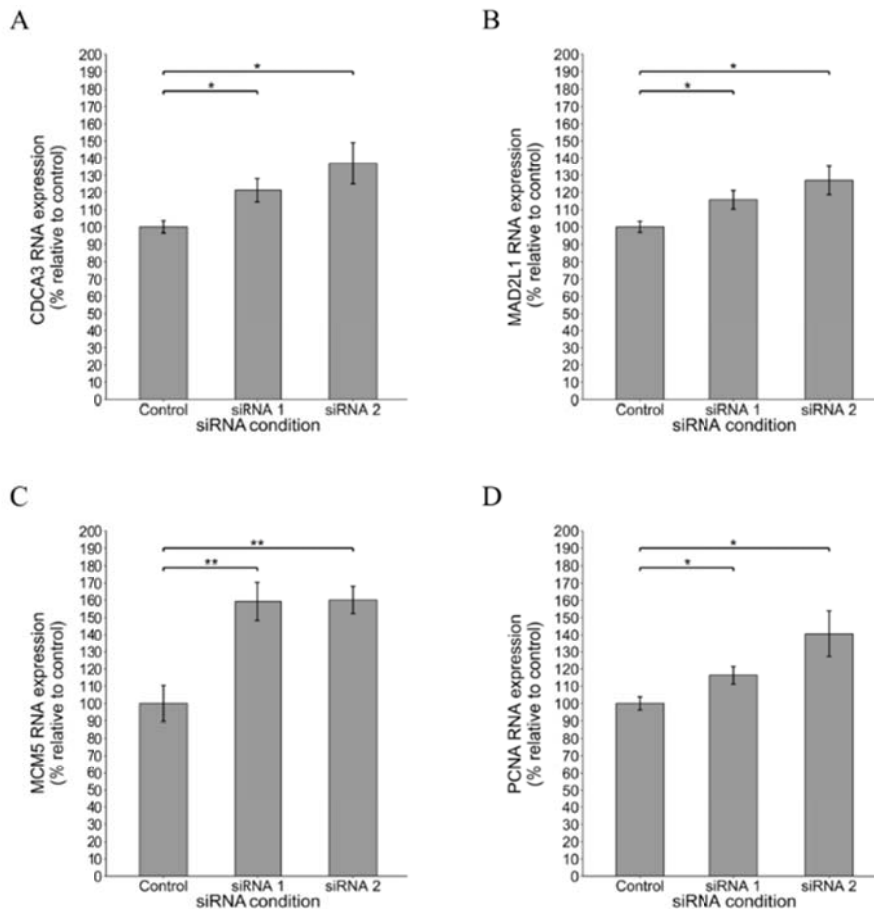


Appendix 1 to Hill MJ, Killick R, Navarrete K, et al. Knockdown of the schizophrenia susceptibility gene *TCF4* alters gene expression and proliferation of progenitor cells from the developing human neocortex. *J Psychiatry Neurosci* 2016.

DOI: 10.1503/jpn.160073

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Supplementary Figure S1. Quantitative PCR validation of selected cell cycle gene expression changes in *TCF4* siRNA conditions compared with the control condition (n = 4 per condition). Error bars represent + / - 1 SEM. * $P < 0.05$; ** $P < 0.01$. **A.** Mean *CDCA3* expression is increased by 21% in the *TCF4* siRNA #1 condition and 37% in the *TCF4* siRNA #2 condition, compared with control. **B.** Mean *MAD2L1* expression is increased by 16% in the *TCF4* siRNA #1 condition and 27% in the *TCF4* siRNA #2 condition, compared with control. **C.** Mean *MCM5* expression is increased by 59% in the *TCF4* siRNA #1 condition and 60% in the *TCF4* siRNA #2 condition, compared with control. **D.** Mean *PCNA* expression is increased by 16% in the *TCF4* siRNA #1 condition and 41% in the *TCF4* siRNA #2 condition, compared with control.

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Supplementary Table S1. Primers used for qPCR validation of expression changes of selected genes involved in the cell cycle.

Gene	qPCR primer F	qPCR primer R
<i>CDCA3</i>	TGGTAGCTGAGGAGGAGTCT	AGGGCCTGGTGATATCTGTG
<i>MAD2L1</i>	CAGGAATTTTGTAGGCCACCA	AAATGGGAAGAGTCGGGACC
<i>MCM5</i>	TCACTGGACTCATGGACTCG	GCAGGACACTACAGCTCCTT
<i>PCNA</i>	GCTGGCATCTTAGAAGCAGT	TCCAAGATCGAGGATGAAGA
<i>ATP5B</i> (control)	ACAAAGACCCCTCACGATGA	ATCTCCCAGAACAGGCCTTC

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Supplementary Table S2. Gene expression changes shared by the *TCF4* siRNA #1 and *TCF4* siRNA#2 conditions, in comparison with the control siRNA condition, at $P < 0.05$.

Probe ID	Gene Symbol	P siRNA#1	P siRNA#2	Fold change siRNA#1	Fold change siRNA#2
ILMN_1788457	ABCC4	0.00033	0.00208	1.23	1.22
ILMN_1672878	ABR	0.04200	0.00868	0.90	0.90
ILMN_2053679	ACADM	0.04706	0.01442	1.16	1.24
ILMN_3187680	ACCS	0.03999	0.04281	0.90	0.87
ILMN_1815392	ACTRT1	0.01402	0.01859	0.89	0.80
ILMN_1803686	ADA	0.04589	0.00433	0.87	0.78
ILMN_1713751	ADAM19	0.01358	0.00222	0.75	0.70
ILMN_1712786	AHCYL2	0.00882	0.01679	0.79	0.86
ILMN_3243156	AHNAK2	0.03721	0.03537	0.83	0.81
ILMN_1747577	ALAD	0.00646	0.01427	0.89	0.91
ILMN_1702503	ALDH3A1	0.00006	0.00696	0.78	0.85
ILMN_1755974	ALDOC	0.00284	0.00118	0.67	0.67
ILMN_1779374	AMMECR1	0.00370	0.02688	1.21	1.17
ILMN_1665331	AMT	0.00001	0.00021	0.81	0.79
ILMN_1739645	ANLN	0.00363	0.00374	1.24	1.49
ILMN_1694548	ANXA3	0.02933	0.00941	1.26	1.19
ILMN_1703791	ANXA7	0.01981	0.04225	1.10	1.09
ILMN_1740772	APBB3	0.00187	0.00006	0.85	0.82
ILMN_1780170	APOD	0.00025	0.00138	0.70	0.70
ILMN_2183510	ARMET	0.01817	0.00503	1.18	1.25
ILMN_1815184	ASPM	0.03821	0.01836	1.26	1.34
ILMN_2048700	ATAD2	0.01556	0.00384	1.34	1.42
ILMN_1738530	ATAD3A	0.00627	0.00052	1.33	1.34
ILMN_1658071	ATP1B1	0.04904	0.00740	1.17	1.14
ILMN_1772506	ATP5I	0.04497	0.04888	0.78	0.79
ILMN_1680955	AURKA	0.01277	0.00256	1.24	1.40
ILMN_2357438	AURKA	0.02869	0.03335	1.23	1.30
ILMN_1691410	BAMBI	0.00466	0.00008	0.84	0.78
ILMN_1737380	BCAP29	0.00217	0.04435	1.21	1.14
ILMN_1737314	BCL6	0.00028	0.02274	0.77	0.84
ILMN_3237448	BEND5	0.00358	0.01115	0.85	0.90
ILMN_2234697	BEX1	0.00434	0.01334	0.83	0.84
ILMN_1804798	BEXL1	0.00072	0.00478	0.85	0.85
ILMN_2206746	BGN	0.00447	0.00011	0.79	0.71
ILMN_2349459	BIRC5	0.00192	0.00329	1.41	1.44
ILMN_1797793	BLVRB	0.04902	0.02790	0.90	0.88
ILMN_1724658	BNIP3	0.00127	0.01671	0.69	0.68
ILMN_1803956	BOC	0.00208	0.00276	0.77	0.80
ILMN_2311089	BRCA1	0.03477	0.01461	1.12	1.16

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ILMN_1693410	BRI3BP	0.03305	0.01326	1.26	1.25
ILMN_1691927	BTBD1	0.00779	0.01744	1.19	1.16
ILMN_1767556	C10orf10	0.01792	0.00066	0.81	0.79
ILMN_1684497	C10orf33	0.01977	0.00843	0.86	0.85
ILMN_3268880	C10orf75	0.00967	0.01364	0.76	0.77
ILMN_1810376	C11orf87	0.00056	0.00007	1.35	1.30
ILMN_1682774	C13orf27	0.00335	0.03684	1.20	1.22
ILMN_1666208	C14orf106	0.00247	0.00145	1.17	1.26
ILMN_1762071	C17orf80	0.00379	0.00061	1.12	1.18
ILMN_2043615	C17orf90	0.00485	0.01678	0.85	0.80
ILMN_1670718	C18orf51	0.00456	0.00468	0.59	0.78
ILMN_2173500	C18orf51	0.00088	0.00644	0.55	0.71
ILMN_1748916	C18orf55	0.01620	0.00536	1.23	1.26
ILMN_1662578	C1GALT1	0.02316	0.01423	1.13	1.15
ILMN_1657683	C1orf198	0.00028	0.03058	0.83	0.90
ILMN_1667966	C1orf24	0.00465	0.00262	1.19	1.23
ILMN_1702231	C1orf54	0.00234	0.00241	0.73	0.78
ILMN_1716957	C1QL1	0.00022	0.01065	0.67	0.81
ILMN_1702226	C21orf34	0.00100	0.00111	0.83	0.86
ILMN_1699071	C21orf7	0.00027	0.00849	0.65	0.80
ILMN_1676822	C2orf40	0.00985	0.00637	0.80	0.79
ILMN_1705753	C3orf26	0.00296	0.02051	1.32	1.29
ILMN_1815682	C3orf37	0.00944	0.04072	1.17	1.19
ILMN_2224907	C4orf34	0.01520	0.03966	0.82	0.83
ILMN_3249240	C4orf46	0.02713	0.02730	1.11	1.15
ILMN_1790461	C6orf125	0.01379	0.04908	0.88	0.93
ILMN_1711203	C6orf15	0.00007	0.00479	0.75	0.77
ILMN_1790211	C7orf57	0.00000	0.00126	1.37	1.20
ILMN_1688772	C8orf51	0.00285	0.00909	0.93	0.93
ILMN_1708029	C9orf127	0.02070	0.02827	0.80	0.82
ILMN_1702197	C9orf140	0.00315	0.00055	1.22	1.34
ILMN_1814856	C9orf7	0.00923	0.00453	0.86	0.86
ILMN_1814044	CABIN1	0.03654	0.00576	0.88	0.84
ILMN_1737089	CAPN5	0.01719	0.02322	0.82	0.85
ILMN_1655191	CASZ1	0.03400	0.04103	1.12	1.11
ILMN_1809003	CBR1	0.03224	0.01948	0.81	0.79
ILMN_1792681	CCDC86	0.02257	0.01262	1.31	1.29
ILMN_1786125	CCNA2	0.00021	0.01648	1.23	1.29
ILMN_2412384	CCNE2	0.03687	0.00570	1.25	1.35
ILMN_1686804	CCRK	0.03854	0.00754	0.87	0.82
ILMN_1719611	CCT6A	0.00205	0.02964	1.30	1.21
ILMN_1771333	CD47	0.00077	0.03301	1.21	1.23

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ILMN_2379560	CDC14B	0.00756	0.00257	0.85	0.88
ILMN_1663390	CDC20	0.03444	0.00605	1.17	1.27
ILMN_1725260	CDC25C	0.00121	0.00142	1.23	1.28
ILMN_1670238	CDC45	0.02301	0.00011	1.40	1.41
ILMN_1737728	CDC43	0.00315	0.01198	1.32	1.38
ILMN_1665559	CDK2	0.00848	0.00404	1.22	1.37
ILMN_1744295	CDKN2A	0.04863	0.04627	1.13	1.09
ILMN_1651237	CDT1	0.02699	0.00006	1.20	1.25
ILMN_1678075	CDYL	0.03917	0.03179	1.10	1.09
ILMN_1693014	CEBPB	0.02263	0.02480	0.80	0.83
ILMN_3177532	CECR4	0.00436	0.00558	0.85	0.87
ILMN_1691290	CELSR3	0.04534	0.00394	0.88	0.85
ILMN_1801257	CENPA	0.04508	0.01553	1.17	1.33
ILMN_2225718	CENPE	0.01778	0.00026	1.20	1.33
ILMN_1737195	CENPK	0.00360	0.02893	1.15	1.27
ILMN_2368718	CENPM	0.03974	0.03720	1.13	1.15
ILMN_1747016	CEP55	0.00925	0.00014	1.21	1.46
ILMN_3185161	CEP78	0.04360	0.04577	1.16	1.22
ILMN_1695645	CETN2	0.00523	0.02558	0.81	0.88
ILMN_1789830	CFLAR	0.01521	0.02481	0.85	0.84
ILMN_1730229	CGNL1	0.02467	0.01556	0.88	0.83
ILMN_1664630	CHEK1	0.00688	0.00602	1.29	1.37
ILMN_2326273	CHI3L2	0.01152	0.00471	0.74	0.81
ILMN_2331205	CHKB	0.00042	0.02254	0.80	0.86
ILMN_1798700	CHRNA1	0.00062	0.01845	0.72	0.74
ILMN_2361768	CHRNA1	0.00081	0.00151	0.70	0.74
ILMN_1756705	CHTF18	0.04000	0.01836	1.16	1.23
ILMN_1756326	CKS2	0.02980	0.01767	1.24	1.28
ILMN_2072296	CKS2	0.02347	0.00563	1.17	1.17
ILMN_2352190	CLIP2	0.00716	0.01121	0.77	0.80
ILMN_1789733	CLIP3	0.00066	0.00583	0.64	0.67
ILMN_1689400	CLK1	0.02983	0.02538	1.15	1.10
ILMN_1774974	CLUAP1	0.03750	0.04704	0.88	0.86
ILMN_1738075	CMIP	0.00243	0.00527	0.79	0.82
ILMN_1815319	CMTM4	0.04062	0.01120	0.93	0.90
ILMN_3243471	CNPY2	0.02511	0.00526	0.80	0.80
ILMN_1685122	COL9A2	0.02040	0.04824	0.85	0.90
ILMN_1777378	COMMMD6	0.01205	0.04539	0.86	0.84
ILMN_1756572	COQ2	0.00308	0.04949	1.23	1.22
ILMN_1788283	COTL1	0.00051	0.01136	1.24	1.15
ILMN_1783636	COX6A1	0.04490	0.02223	0.88	0.91
ILMN_1773855	CPT1C	0.01514	0.00807	0.79	0.86

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ILMN_1680624	CREG1	0.01320	0.00538	0.83	0.86
ILMN_1739558	CRELD1	0.00887	0.00024	0.77	0.78
ILMN_3260715	CRTC3	0.02858	0.04978	0.85	0.82
ILMN_1729216	CRYAB	0.00152	0.00138	0.50	0.56
ILMN_1714397	CRYL1	0.04220	0.03646	0.84	0.83
ILMN_1685796	CSDE1	0.02953	0.00959	1.07	1.08
ILMN_1665797	CSE1L	0.03539	0.03110	1.27	1.29
ILMN_1706238	CSE1L	0.01471	0.00219	1.12	1.34
ILMN_2415235	CSNK1E	0.00041	0.01315	0.83	0.88
ILMN_1697733	CST6	0.00892	0.00412	0.83	0.83
ILMN_1721901	CTNNAL1	0.00376	0.00639	1.30	1.22
ILMN_2136446	CTNNAL1	0.00508	0.00036	1.24	1.29
ILMN_2359742	CTSB	0.01164	0.01476	0.87	0.87
ILMN_1804955	CTSF	0.01277	0.01035	0.79	0.78
ILMN_2311989	CUTA	0.01275	0.01951	1.21	1.16
ILMN_3256325	CYB561D1	0.01060	0.02133	0.88	0.84
ILMN_1714167	CYB5A	0.00341	0.01062	0.81	0.87
ILMN_1764228	DAB2	0.03509	0.00437	0.84	0.83
ILMN_1733851	DACT3	0.01399	0.00207	0.85	0.79
ILMN_2376289	DBNL	0.03289	0.02054	0.90	0.86
ILMN_1753249	DDX10	0.00011	0.00013	1.67	1.40
ILMN_1658902	DEAF1	0.03719	0.01369	1.12	1.17
ILMN_1767509	DEF8	0.03402	0.00396	0.80	0.74
ILMN_1747630	DEK	0.02160	0.00389	1.16	1.35
ILMN_1670145	DFNA5	0.02325	0.01900	0.90	0.84
ILMN_1807455	DHRS7	0.00081	0.00186	0.89	0.79
ILMN_2180352	DIP2B	0.00228	0.03893	0.80	0.83
ILMN_1676062	DIP2C	0.00443	0.00140	0.78	0.78
ILMN_1773337	DKK1	0.00038	0.00420	1.48	1.32
ILMN_1749829	DLGAP5	0.02682	0.00261	1.27	1.37
ILMN_3239771	DLGAP5	0.01498	0.00117	1.21	1.35
ILMN_1801845	DNAL4	0.00610	0.00390	0.82	0.79
ILMN_1796245	DNASE2	0.00963	0.00363	0.83	0.80
ILMN_1805200	DNM1	0.01150	0.04412	0.87	0.91
ILMN_1758629	DONSON	0.04063	0.03763	1.25	1.19
ILMN_1811328	DPP7	0.01153	0.02212	0.89	0.84
ILMN_1771622	DRD1IP	0.01944	0.00608	0.80	0.78
ILMN_1715905	DSN1	0.03393	0.01244	1.16	1.29
ILMN_2374778	DUT	0.00646	0.00237	1.27	1.26
ILMN_1768127	EBNA1BP2	0.02893	0.01934	1.23	1.20
ILMN_1653115	ECH1	0.04165	0.02448	0.80	0.81
ILMN_1767233	EDA2R	0.01110	0.02955	1.12	1.12

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ILMN_1751904	EDNRB	0.00007	0.00092	0.62	0.71
ILMN_1761463	EFHD2	0.04680	0.01589	1.18	1.11
ILMN_2371055	EFNA1	0.00119	0.00034	0.83	0.79
ILMN_1695606	EFNB3	0.01839	0.00470	0.87	0.87
ILMN_1794522	EIF5A	0.00831	0.00855	1.28	1.22
ILMN_2111187	ELOVL6	0.01052	0.00870	1.18	1.12
ILMN_3245659	ERI1	0.02834	0.03600	1.15	1.19
ILMN_1751425	ERMP1	0.00008	0.00558	0.83	0.94
ILMN_1651628	EXOC6	0.04002	0.00796	1.13	1.14
ILMN_1721713	EXOSC9	0.00098	0.00267	1.28	1.33
ILMN_2312719	EXOSC9	0.00486	0.02748	1.29	1.19
ILMN_3266606	FABP5L2	0.02659	0.04020	0.82	0.86
ILMN_2410038	FAM111A	0.00348	0.02437	1.09	1.21
ILMN_1739942	FAM117B	0.02072	0.00075	0.85	0.82
ILMN_1679641	FAM120B	0.01649	0.00110	0.86	0.82
ILMN_2189605	FAM122B	0.00463	0.01633	1.11	1.25
ILMN_2387952	FAM134B	0.00019	0.00314	0.67	0.82
ILMN_1735502	FAM181B	0.00432	0.03927	0.64	0.76
ILMN_3242758	FAM181B	0.00091	0.03473	0.60	0.85
ILMN_1777261	FAM3C	0.00379	0.00013	1.13	1.16
ILMN_1781943	FAM83D	0.00270	0.00133	1.25	1.42
ILMN_1779813	FAM96B	0.02359	0.00991	0.88	0.81
ILMN_2235137	FANCD2	0.01326	0.01104	1.37	1.29
ILMN_1655642	FANCI	0.01754	0.00754	1.30	1.36
ILMN_1729175	FBXO3	0.03296	0.04398	0.85	0.91
ILMN_1771139	FBXO31	0.00452	0.01088	0.84	0.88
ILMN_1755834	FEN1	0.02107	0.01791	1.24	1.27
ILMN_2160929	FEN1	0.00063	0.00185	1.41	1.33
ILMN_1779071	FEZ1	0.01099	0.00234	0.87	0.85
ILMN_1699206	FHDC1	0.00997	0.00107	0.80	0.79
ILMN_1754114	FLJ20021	0.00397	0.04512	0.78	0.86
ILMN_1763891	FLJ35258	0.00638	0.00926	0.76	0.79
ILMN_3269324	FLJ37644	0.00476	0.00209	0.77	0.77
ILMN_1681703	FOXO3	0.00651	0.01975	0.76	0.87
ILMN_1703174	FREM2	0.00019	0.00049	0.67	0.72
ILMN_1716246	FRZB	0.02493	0.04466	0.78	0.82
ILMN_2292646	GAD1	0.00414	0.02711	0.78	0.88
ILMN_1693452	GAL3ST4	0.03305	0.00100	0.85	0.86
ILMN_1699631	GATS	0.00189	0.00308	0.76	0.76
ILMN_2278908	GGA1	0.02319	0.00525	0.91	0.87
ILMN_1806106	GNL3	0.01390	0.00863	1.20	1.20
ILMN_2103547	GOLGA8B	0.03704	0.01000	0.87	0.86

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ILMN_1656145	GOT1	0.04380	0.00275	1.21	1.11
ILMN_1753575	GP1BA	0.03246	0.00983	1.16	1.11
ILMN_1651642	GPC2	0.02576	0.01241	0.84	0.77
ILMN_2352097	GPR56	0.00040	0.02771	0.69	0.82
ILMN_1730054	GSTT1	0.04511	0.03154	0.84	0.82
ILMN_1691578	GTF3C6	0.00166	0.02595	1.35	1.17
ILMN_1747183	GXYLT1	0.00020	0.00812	1.39	1.27
ILMN_2319424	GYG2	0.00698	0.01969	0.79	0.87
ILMN_2200331	H2AFX	0.00904	0.00305	1.37	1.28
ILMN_1674034	H2AFY	0.00247	0.01881	0.80	0.80
ILMN_1772455	HDAC3	0.03167	0.04847	1.20	1.19
ILMN_1792323	HDC	0.00142	0.03069	0.70	0.86
ILMN_1765621	HDGF	0.00448	0.01594	1.24	1.19
ILMN_1788203	HEY1	0.01929	0.00837	0.80	0.77
ILMN_1768973	HIST2H2AC	0.04336	0.03559	0.86	0.84
ILMN_2231242	HMGB1	0.02251	0.00679	1.23	1.26
ILMN_1654268	HMGB2	0.00146	0.00416	1.37	1.54
ILMN_1781942	HMMR	0.02082	0.02199	1.26	1.37
ILMN_2409220	HMMR	0.00016	0.00226	1.37	1.39
ILMN_1658807	HMOX2	0.01213	0.00021	1.23	1.25
ILMN_2335718	HNRNPAB	0.00381	0.00590	1.32	1.36
ILMN_3269405	HNRNPM	0.02518	0.00995	1.29	1.38
ILMN_2101920	HNRPH1	0.01375	0.01152	1.29	1.33
ILMN_1745385	HNRPM	0.00014	0.00012	1.28	1.38
ILMN_2267787	HPS1	0.02977	0.00178	1.15	1.12
ILMN_1708987	HSD11B1L	0.04394	0.02103	0.83	0.81
ILMN_1712888	HSPH1	0.02240	0.00122	1.38	1.46
ILMN_1664861	ID1	0.00143	0.04795	0.77	0.85
ILMN_1802706	IDH3G	0.02989	0.02637	0.86	0.85
ILMN_1745374	IFI35	0.01864	0.01548	0.78	0.76
ILMN_1760062	IFI44	0.03014	0.02104	0.89	0.80
ILMN_1723912	IFI44L	0.03024	0.00932	0.75	0.57
ILMN_1744635	IGDCC3	0.01593	0.00197	0.70	0.68
ILMN_3245650	IGDCC3	0.03833	0.01726	0.89	0.85
ILMN_2132982	IGFBP5	0.00070	0.02239	0.80	0.87
ILMN_2062468	IGFBP7	0.04170	0.03379	0.72	0.76
ILMN_1704353	IGSF3	0.00181	0.00416	0.79	0.82
ILMN_1729596	INF2	0.02140	0.03333	1.22	1.17
ILMN_1725169	INTS12	0.04521	0.01115	0.93	0.91
ILMN_1700231	IP6K1	0.02697	0.04277	1.17	1.16
ILMN_1764861	ISOC1	0.01677	0.02008	1.14	1.16
ILMN_1683927	ITGAE	0.00788	0.01852	1.24	1.29

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ILMN_1680453	ITM2C	0.02618	0.01109	0.79	0.77
ILMN_1764177	JARID2	0.00436	0.01698	0.87	0.85
ILMN_1747205	JDP2	0.04407	0.00357	0.90	0.89
ILMN_2169025	JOSD2	0.03285	0.03324	0.85	0.86
ILMN_1780334	KCNJ2	0.00242	0.00579	1.42	1.26
ILMN_2332440	KCNMB2	0.01332	0.01994	0.83	0.85
ILMN_1761903	KCNS1	0.04765	0.04015	0.84	0.84
ILMN_1651557	KDELC2	0.00858	0.00915	1.39	1.42
ILMN_1722820	KDELR3	0.02992	0.01744	0.83	0.88
ILMN_3250585	KIAA0194	0.03812	0.02767	0.83	0.85
ILMN_1652246	KIAA0363	0.00813	0.00009	0.80	0.74
ILMN_1745813	KIAA1279	0.02141	0.00132	1.16	1.29
ILMN_1803483	KIAA2013	0.03453	0.04501	0.85	0.87
ILMN_1794539	KIF11	0.01869	0.00160	1.19	1.42
ILMN_2143155	KIF11	0.00539	0.00194	1.31	1.53
ILMN_1695658	KIF20A	0.02113	0.01226	1.13	1.17
ILMN_1712452	KIF20B	0.01089	0.00289	1.17	1.20
ILMN_3234884	KIF22	0.01440	0.02101	1.28	1.43
ILMN_1716553	KIF23	0.02674	0.02495	1.24	1.29
ILMN_1811472	KIF23	0.00662	0.00991	1.24	1.27
ILMN_1685916	KIF2C	0.00028	0.00080	1.20	1.27
ILMN_2119224	KIFAP3	0.00777	0.00463	0.87	0.81
ILMN_1778523	KLF9	0.00004	0.00008	0.73	0.72
ILMN_2405470	KLHDC9	0.03588	0.01855	0.87	0.84
ILMN_1703949	KPNB1	0.03166	0.02442	1.24	1.24
ILMN_1658802	KRTCAP2	0.02675	0.03664	0.89	0.81
ILMN_1727495	L3MBTL3	0.03809	0.02130	0.91	0.92
ILMN_1773567	LAMA5	0.00423	0.00788	0.73	0.77
ILMN_2101832	LAPTM4B	0.01505	0.01895	0.83	0.87
ILMN_2400500	LASS2	0.03183	0.03205	1.21	1.21
ILMN_1781256	LEFTY2	0.00130	0.03757	0.74	0.85
ILMN_1785444	LEMD1	0.00091	0.00831	0.61	0.75
ILMN_1698019	LG MN	0.01482	0.00181	0.89	0.84
ILMN_2332964	LG MN	0.04860	0.00602	0.86	0.87
ILMN_1706779	LIG1	0.02004	0.02511	1.21	1.15
ILMN_1663444	LIN7B	0.01456	0.01792	0.90	0.90
ILMN_1754969	LMCD1	0.02132	0.01326	0.82	0.84
ILMN_3182893	LOC10012816 3	0.00825	0.04112	1.19	1.10
ILMN_3263694	LOC10012877 1	0.02412	0.03150	0.86	0.80
ILMN_3256868	LOC10012958 5	0.02722	0.02700	1.20	1.20

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	LOC10012990				
ILMN_3263864	5	0.01808	0.01210	1.24	1.20
	LOC10013118				
ILMN_3235188	7	0.00949	0.01023	0.91	0.83
	LOC10013160				
ILMN_3292224	9	0.00204	0.03802	1.44	1.44
	LOC10013252				
ILMN_3234436	8	0.02578	0.02144	1.24	1.26
	LOC10013271				
ILMN_3211935	5	0.01419	0.00381	1.17	1.31
	LOC10013279				
ILMN_3201986	5	0.02124	0.01219	0.82	0.81
	LOC10013322				
ILMN_3292892	4	0.00380	0.04528	0.79	0.84
	LOC10013337				
ILMN_3243291	2	0.00324	0.03955	1.22	1.31
ILMN_1776052	LOC148915	0.00241	0.00134	1.34	1.38
ILMN_1666384	LOC151579	0.02420	0.00506	1.24	1.28
ILMN_1675460	LOC283412	0.01448	0.04715	1.23	1.22
ILMN_3289745	LOC339352	0.01675	0.00565	0.77	0.73
ILMN_3285198	LOC389168	0.00875	0.02075	1.16	1.17
ILMN_3217285	LOC389322	0.01812	0.00866	1.23	1.29
ILMN_3199609	LOC400013	0.03550	0.00597	1.25	1.25
ILMN_1791423	LOC401052	0.02346	0.00022	0.85	0.85
ILMN_1668629	LOC401115	0.01364	0.04000	0.75	0.85
ILMN_1675946	LOC401238	0.04189	0.01823	0.91	0.84
ILMN_3213568	LOC402112	0.01206	0.00091	1.38	1.38
ILMN_1727049	LOC402509	0.00070	0.00197	0.86	0.82
ILMN_1759374	LOC440132	0.04142	0.04842	0.90	0.85
ILMN_3291472	LOC442727	0.00016	0.01920	1.28	1.21
ILMN_3210741	LOC642956	0.00061	0.00225	0.77	0.82
ILMN_3278995	LOC643167	0.03526	0.00290	1.26	1.48
ILMN_1766539	LOC643319	0.01061	0.03981	1.36	1.28
ILMN_3219455	LOC644745	0.02447	0.01411	1.31	1.29
ILMN_3214052	LOC644877	0.04528	0.03488	1.20	1.22
ILMN_1691611	LOC645436	0.03143	0.04702	1.12	1.16
ILMN_1772888	LOC645688	0.00900	0.00848	0.85	0.80
ILMN_1730791	LOC646783	0.02460	0.00609	0.89	0.85
ILMN_3294365	LOC646993	0.00110	0.00148	1.22	1.16
ILMN_1759870	LOC653066	0.01141	0.00863	1.09	1.08
ILMN_1780861	LOC653506	0.03914	0.03410	0.85	0.89
ILMN_1814589	LOC728037	0.03168	0.00691	1.24	1.16
ILMN_3305849	LOC728431	0.02141	0.00969	0.87	0.83
ILMN_3304022	LOC729102	0.00633	0.01116	1.20	1.18
ILMN_1746917	LOC729843	0.04370	0.02034	0.81	0.82

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ILMN_1680774	LOC730994	0.00764	0.02126	0.73	0.74
ILMN_1785756	LOC731314	0.00879	0.00136	1.33	1.37
ILMN_2172497	LPPR4	0.02955	0.02405	1.33	1.31
ILMN_1652638	LRRC58	0.00461	0.03447	0.84	0.91
ILMN_1811102	LRSAM1	0.04565	0.03447	0.87	0.86
ILMN_2092693	LSM12	0.04613	0.01205	1.20	1.24
ILMN_1737947	LSM5	0.00270	0.03714	1.25	1.15
ILMN_1744534	LYRM5	0.02183	0.04876	0.90	0.88
ILMN_1805161	LZTR1	0.00304	0.00895	0.83	0.86
ILMN_1777564	MAD2L1	0.01031	0.00511	1.38	1.42
ILMN_2395926	MANBAL	0.03035	0.03464	0.80	0.75
ILMN_1712523	MAP6	0.02730	0.01594	0.84	0.86
ILMN_1694840	MATN2	0.00592	0.04737	0.82	0.88
ILMN_2313158	MBNL1	0.01947	0.00215	1.14	1.20
ILMN_1745513	MCAT	0.03418	0.00748	1.15	1.19
ILMN_1761808	MCFD2	0.00369	0.00197	1.28	1.42
ILMN_1737205	MCM4	0.00363	0.00380	1.46	1.54
ILMN_2412860	MCM4	0.02492	0.02510	1.34	1.36
ILMN_1815169	MCM5	0.00010	0.00001	1.30	1.39
ILMN_1798654	MCM6	0.03462	0.01777	1.21	1.28
ILMN_3246388	MED14	0.01789	0.01433	1.09	1.13
ILMN_1671603	MED30	0.02764	0.02174	0.87	0.90
ILMN_1763228	MEF2D	0.00507	0.03479	0.86	0.89
ILMN_2061435	MEG3	0.00036	0.01202	0.73	0.80
ILMN_2212909	MELK	0.03033	0.00638	1.28	1.36
ILMN_1766914	MFAP4	0.00009	0.00115	0.56	0.74
ILMN_1756071	MFGE8	0.03193	0.01849	0.82	0.84
ILMN_1674874	MFSD10	0.01338	0.01114	0.87	0.85
ILMN_2342240	MGAT2	0.04027	0.00887	1.18	1.16
ILMN_1678300	MGC40489	0.01157	0.00167	1.20	1.37
ILMN_1712291	MICALL2	0.00009	0.01591	0.80	0.91
ILMN_2347068	MKNK2	0.01696	0.04888	0.84	0.81
ILMN_1679438	MLF1IP	0.02887	0.00450	1.22	1.25
ILMN_3248966	MMADHC	0.00991	0.02813	1.15	1.18
ILMN_1655915	MMP11	0.00248	0.01703	0.84	0.87
ILMN_1713143	MRPL3	0.04270	0.04089	1.14	1.16
ILMN_1657977	MSRB2	0.00960	0.01512	0.79	0.84
ILMN_1773763	MTA2	0.00474	0.00932	1.34	1.21
ILMN_1810838	MTDH	0.02635	0.04890	1.20	1.19
ILMN_1674706	MTHFD2	0.02164	0.03639	1.21	1.13
ILMN_1718271	MTIF3	0.04213	0.00609	0.86	0.85
ILMN_1786684	MTRF1L	0.04374	0.02001	1.17	1.15

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ILMN_1756541	MXD4	0.03170	0.04454	0.86	0.83
ILMN_1675062	MYL9	0.00721	0.03576	0.75	0.81
ILMN_1750711	MYO19	0.02352	0.04462	1.14	1.12
ILMN_3305973	NACAD	0.00329	0.01073	0.86	0.81
ILMN_1776088	NAT9	0.04127	0.04052	0.81	0.84
ILMN_2399300	NAV2	0.00791	0.00070	0.86	0.86
ILMN_1788538	NCALD	0.00412	0.00717	0.73	0.84
ILMN_2343097	NCALD	0.00174	0.01621	0.73	0.84
ILMN_1775008	NCAPD2	0.01444	0.02979	1.21	1.24
ILMN_1683441	NCAPD3	0.03308	0.00672	1.10	1.09
ILMN_1715680	NEIL2	0.04535	0.01949	1.16	1.21
ILMN_2051373	NEK2	0.01516	0.00043	1.14	1.15
ILMN_1682197	NFXL1	0.01957	0.00391	1.10	1.20
ILMN_1807211	NICN1	0.00234	0.00073	0.88	0.87
ILMN_1716583	NME7	0.04283	0.00051	1.15	1.24
ILMN_1715508	NNMT	0.00141	0.01599	0.68	0.81
ILMN_2320250	NOL6	0.00706	0.02015	1.25	1.22
ILMN_1705407	NOP56	0.02642	0.01535	1.31	1.16
ILMN_1748476	NOP58	0.02844	0.00631	1.22	1.27
ILMN_2405297	NOTCH2	0.00050	0.01813	0.85	0.93
ILMN_1811363	NOVA1	0.04435	0.04321	0.86	0.91
ILMN_1684210	NPAL3	0.02020	0.02780	0.88	0.84
ILMN_1699574	NRP1	0.04659	0.02786	1.32	1.28
ILMN_1756049	NT5DC3	0.00652	0.00385	0.80	0.89
ILMN_1764690	NTS	0.01083	0.02385	1.58	1.43
ILMN_1658695	NUF2	0.01001	0.00117	1.17	1.38
ILMN_2323491	NUP62	0.03797	0.03626	1.18	1.13
ILMN_1734826	NUP88	0.01193	0.01891	1.22	1.11
ILMN_2404688	NUPR1	0.01346	0.01063	0.77	0.77
ILMN_1726720	NUSAP1	0.00025	0.00027	1.35	1.28
ILMN_2409298	NUSAP1	0.00029	0.00011	1.31	1.47
ILMN_1655046	NUTF2	0.01288	0.00736	1.28	1.27
ILMN_1772286	OCIAD2	0.00719	0.00190	1.46	1.24
ILMN_1748591	ODC1	0.01085	0.00406	1.31	1.27
ILMN_2196984	OIP5	0.03376	0.00324	1.21	1.30
ILMN_2400922	OPRL1	0.00249	0.00006	0.82	0.80
ILMN_1731070	ORC6L	0.00019	0.00306	1.28	1.31
ILMN_1698406	ORMDL1	0.04323	0.00234	1.09	1.18
ILMN_1720865	OSBPL7	0.04239	0.01379	0.91	0.90
ILMN_1658909	OSGEPL1	0.00106	0.04556	1.09	1.09
ILMN_1757732	OSGIN2	0.03477	0.00861	1.07	1.22
ILMN_1813544	OXCT1	0.02295	0.01852	1.17	1.23

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ILMN_1795778	P4HA2	0.02911	0.01118	0.85	0.82
ILMN_2381697	P4HA2	0.00862	0.01814	0.79	0.83
ILMN_1812031	PALM	0.00737	0.01184	0.87	0.84
ILMN_1673673	PBK	0.00428	0.00389	1.30	1.24
ILMN_1714384	PCCA	0.01945	0.04533	0.87	0.87
ILMN_1703572	PCDH20	0.00037	0.00046	1.43	1.45
ILMN_1752294	PCDH9	0.00440	0.00397	0.85	0.81
ILMN_2227757	PCDHB2	0.02358	0.00333	0.87	0.86
ILMN_1694177	PCNA	0.00230	0.00114	1.36	1.39
ILMN_2228710	PDCD5	0.02405	0.01375	1.22	1.15
ILMN_1667925	PDCL3	0.00206	0.03894	1.24	1.15
ILMN_2086470	PDGFRA	0.01596	0.00846	1.23	1.34
ILMN_1815057	PDGFRB	0.01311	0.02061	0.80	0.85
ILMN_2080611	PDSS1	0.02685	0.00163	1.15	1.20
ILMN_1696962	PDZD8	0.03047	0.03180	1.11	1.16
ILMN_1683279	PEX6	0.01156	0.01104	0.81	0.81
ILMN_1653292	PFKFB4	0.00175	0.00010	0.90	0.85
ILMN_1716265	PGM2L1	0.01974	0.01307	1.17	1.11
ILMN_1775901	PHF5A	0.01395	0.02930	1.14	1.24
ILMN_1773073	PHYH	0.03627	0.04143	0.83	0.86
ILMN_1802905	PIAS4	0.01125	0.00093	0.90	0.88
ILMN_2155272	PIF1	0.00925	0.00642	1.20	1.27
ILMN_1688702	PJA2	0.00597	0.00061	0.88	0.80
ILMN_1783231	PLEKHB1	0.00224	0.03138	0.74	0.80
ILMN_2194561	PLEKHG1	0.00130	0.02199	1.28	1.31
ILMN_1790106	PLP1	0.01628	0.01001	0.77	0.77
ILMN_1791569	PLXNA1	0.00744	0.02763	0.83	0.86
ILMN_1766000	PM20D2	0.00857	0.02531	1.29	1.20
ILMN_1810864	PMP22	0.03956	0.02147	0.83	0.76
ILMN_1697189	PNCK	0.00005	0.00003	0.75	0.69
ILMN_1662587	PNPLA7	0.01904	0.03837	0.86	0.88
ILMN_1775823	POFUT2	0.01602	0.00533	0.80	0.83
ILMN_1652580	POLD1	0.00989	0.01387	1.26	1.25
ILMN_1740291	POLQ	0.03571	0.00977	1.11	1.14
ILMN_2088172	POLR2B	0.04267	0.04228	1.21	1.34
ILMN_3251691	POLR3G	0.00475	0.01775	1.21	1.15
ILMN_1675406	PPAPDC1B	0.03696	0.01090	0.84	0.88
ILMN_1715616	PPIL5	0.00826	0.01897	1.31	1.21
ILMN_1806867	PPM1G	0.03038	0.01526	1.15	1.21
ILMN_1796962	PPP3R1	0.04970	0.03666	1.24	1.39
ILMN_1797531	PRKAG2	0.02564	0.04437	1.14	1.10
ILMN_1708159	PRKCABP	0.02019	0.01145	1.18	1.14

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ILMN_1799299	PRPF38B	0.02714	0.03815	1.09	1.12
ILMN_1758104	PRPS2	0.01528	0.00628	1.27	1.23
ILMN_1788701	PSIP1	0.00376	0.00266	1.21	1.26
ILMN_2396948	PSMC3IP	0.00900	0.01214	1.30	1.25
ILMN_1655316	PSMC6	0.02634	0.02080	1.15	1.21
ILMN_1779264	PSMG1	0.02888	0.03071	1.38	1.38
ILMN_1724490	PSPC1	0.02080	0.02442	1.20	1.16
ILMN_2333319	PTBP1	0.03858	0.03898	1.21	1.24
ILMN_1664464	PTGDS	0.00024	0.00069	0.67	0.75
ILMN_1719749	PTGES3	0.01412	0.03924	1.31	1.21
ILMN_1785699	PTHLH	0.00257	0.03701	1.27	1.18
ILMN_1759954	PTMA	0.02985	0.01736	1.23	1.37
ILMN_1725791	PTPLA	0.01093	0.02948	0.86	0.83
ILMN_1695509	PTPN12	0.00757	0.03882	1.30	1.19
ILMN_2400030	PTPN2	0.00228	0.03743	1.21	1.19
ILMN_1764609	PWWP2B	0.00498	0.00045	1.17	1.21
ILMN_1652394	RAB2A	0.02703	0.01546	0.83	0.87
ILMN_1803136	RAB4B	0.01368	0.00318	0.81	0.82
ILMN_1800871	RAB6A	0.01388	0.04720	1.12	1.11
ILMN_1746492	RABL4	0.00412	0.01952	0.85	0.82
ILMN_2221006	RAD21	0.02571	0.04447	1.11	1.14
ILMN_1670353	RAD51AP1	0.03418	0.00670	1.26	1.28
ILMN_1757384	RAN	0.02287	0.01049	1.31	1.42
ILMN_1721457	RANBP1	0.00204	0.01328	1.32	1.41
ILMN_1747673	RASL10A	0.00522	0.00542	0.78	0.81
ILMN_2363621	RBBP8	0.04140	0.01599	1.28	1.37
ILMN_3251415	RBM43	0.01870	0.04338	0.81	0.88
ILMN_1656837	RBP1	0.01741	0.00065	0.86	0.80
ILMN_1780987	RFXANK	0.01231	0.00223	0.82	0.80
ILMN_1812644	RGR	0.02371	0.04960	0.80	0.84
ILMN_1763704	RGS11	0.03911	0.00104	0.83	0.83
ILMN_1808226	RGS16	0.01223	0.02411	0.73	0.77
ILMN_1758067	RGS4	0.00033	0.00453	1.43	1.22
ILMN_2209766	RHBDD1	0.00212	0.00264	0.86	0.89
ILMN_1769546	RIN2	0.00028	0.00140	0.82	0.89
ILMN_1797534	RIOK1	0.01887	0.01613	1.16	1.21
ILMN_1671565	RNASET2	0.03160	0.00493	0.87	0.86
ILMN_1736533	RND2	0.02610	0.00111	0.80	0.81
ILMN_1812327	RNF19A	0.01078	0.01262	0.65	0.62
ILMN_1786039	RNF34	0.00590	0.02109	1.22	1.15
ILMN_1769637	RNMT	0.00016	0.02254	0.88	0.87
ILMN_1699476	RPE	0.02135	0.03603	1.14	1.14

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ILMN_1808939	RPS6	0.02927	0.01926	1.11	1.10
ILMN_1780825	RRAS	0.01761	0.01196	0.78	0.83
ILMN_1771593	RRM1	0.00675	0.00600	1.24	1.26
ILMN_1685661	RRP15	0.02529	0.02341	1.15	1.24
ILMN_1730931	RUFY3	0.02350	0.00610	0.86	0.78
ILMN_1684306	S100A4	0.01119	0.02787	0.80	0.82
ILMN_1658678	SAAL1	0.00753	0.01831	1.21	1.17
ILMN_1705679	SAFB2	0.01466	0.02554	1.18	1.18
ILMN_1740842	SALL2	0.01674	0.00531	0.84	0.82
ILMN_1753342	SAT1	0.00940	0.01149	0.73	0.77
ILMN_1728298	SBK1	0.00652	0.00947	0.87	0.87
ILMN_1677534	SCAP	0.03240	0.04319	0.88	0.92
ILMN_1726204	SCRG1	0.00015	0.00134	0.64	0.78
ILMN_3297880	SEC13	0.03810	0.03660	0.90	0.84
ILMN_1651429	SELM	0.02957	0.03847	0.75	0.74
ILMN_1814494	SEMA6D	0.00416	0.00224	0.81	0.86
ILMN_2141482	SERPINF1	0.00498	0.02697	0.61	0.76
ILMN_1658809	SEZ6	0.01495	0.00399	0.73	0.76
ILMN_2413779	SEZ6L2	0.02942	0.00561	0.89	0.78
ILMN_1722648	SF3B4	0.00200	0.00692	1.19	1.19
ILMN_1795341	SFRS1	0.01927	0.00486	1.31	1.44
ILMN_1677162	SFRS13A	0.02000	0.01486	1.16	1.11
ILMN_1696407	SFRS2	0.02504	0.00406	1.22	1.26
ILMN_2175075	SFRS4	0.04926	0.02195	1.10	1.20
ILMN_1674620	SGCE	0.02442	0.01646	0.86	0.85
ILMN_2404906	SGOL1	0.00654	0.01004	1.19	1.19
ILMN_1746699	SGOL2	0.00665	0.00803	1.29	1.29
ILMN_1811933	SHMT1	0.02110	0.02798	1.22	1.23
ILMN_1791912	SIDT2	0.00020	0.00786	0.71	0.74
ILMN_1717925	SIGMAR1	0.02977	0.00718	1.18	1.17
ILMN_2398489	SIGMAR1	0.00098	0.00152	1.19	1.15
ILMN_1678729	SIL1	0.04783	0.00530	0.86	0.81
ILMN_1771224	SKA1	0.00879	0.00014	1.17	1.41
ILMN_2085862	SLC15A3	0.01466	0.02977	0.67	0.76
ILMN_1736546	SLC16A14	0.01734	0.00912	1.23	1.18
ILMN_2382505	SLC22A18	0.00635	0.00324	0.73	0.69
ILMN_1750981	SLC25A26	0.03398	0.00135	0.92	0.85
ILMN_1787718	SLC27A1	0.00171	0.00779	0.73	0.82
ILMN_1775708	SLC2A3	0.04926	0.02404	0.90	0.84
ILMN_1714445	SLC6A9	0.00248	0.00130	0.80	0.79
ILMN_2309180	SMARCD3	0.00592	0.00359	0.82	0.78
ILMN_1748923	SMC2	0.01014	0.00450	1.17	1.21

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ILMN_3238785	SNHG9	0.01959	0.04502	1.21	1.21
ILMN_3238435	SNORA12	0.01734	0.03319	0.77	0.80
ILMN_2082762	SNORD68	0.00111	0.01375	1.19	1.13
ILMN_3247064	SNRNP40	0.00827	0.01576	1.28	1.20
ILMN_2372082	SNRPN	0.00971	0.01040	0.88	0.86
ILMN_1753241	SNTA1	0.00669	0.01464	0.90	0.88
ILMN_1653055	SOX3	0.00244	0.04503	1.51	1.20
ILMN_1815745	SOX4	0.00005	0.00049	0.66	0.79
ILMN_1775926	SPATA6	0.00711	0.00654	0.86	0.86
ILMN_2181432	SPC24	0.00464	0.00437	1.39	1.50
ILMN_1729281	SPHK2	0.03970	0.00895	1.14	1.11
ILMN_1682054	SRI	0.01793	0.00923	0.79	0.79
ILMN_1661337	SRM	0.00022	0.00198	1.20	1.14
ILMN_1798804	SRPK1	0.03060	0.00868	1.21	1.31
ILMN_1676213	SRPX2	0.00494	0.00464	0.86	0.81
ILMN_1697670	SRRM1	0.04982	0.01061	1.23	1.25
ILMN_1809478	SSBP1	0.00336	0.02897	1.21	1.17
ILMN_1711608	SSBP2	0.04122	0.01986	0.87	0.85
ILMN_2151048	STAG1	0.00803	0.00167	1.15	1.25
ILMN_1758164	STC1	0.00475	0.00493	0.77	0.84
ILMN_1727740	SYNCRIP	0.03437	0.01266	1.24	1.19
ILMN_1724407	TACC3	0.00203	0.04550	1.18	1.20
ILMN_1721093	TAF10	0.01653	0.02718	0.88	0.87
ILMN_1708147	TBPL1	0.01688	0.02875	1.22	1.21
ILMN_1814194	TCF4	0.00000	0.00034	0.53	0.61
ILMN_2313434	TCP1	0.00793	0.02432	1.21	1.19
ILMN_1791067	TESK1	0.01142	0.03283	0.84	0.87
ILMN_2096784	TFAP2C	0.01373	0.03610	1.23	1.16
ILMN_1750518	THOC4	0.03914	0.01975	1.35	1.46
ILMN_1779875	THY1	0.03977	0.01654	0.80	0.77
ILMN_1778691	TIA1	0.00148	0.01199	1.11	1.13
ILMN_1697420	TINF2	0.00397	0.00403	0.75	0.83
ILMN_2143148	TM2D1	0.00539	0.04202	0.87	0.84
ILMN_1693045	TMED1	0.00682	0.02982	0.90	0.88
ILMN_1669709	TMEM108	0.01154	0.00476	0.84	0.84
ILMN_1770977	TMEM134	0.01661	0.01146	0.89	0.82
ILMN_1774066	TMEM141	0.00309	0.00020	0.84	0.78
ILMN_2104295	TMEM178	0.00143	0.01559	0.81	0.85
ILMN_3306440	TMEM194A	0.00738	0.03556	1.19	1.19
ILMN_1770922	TMEM45A	0.01671	0.02223	0.88	0.87
ILMN_2059689	TMEM54	0.02481	0.00019	0.90	0.84
ILMN_1719649	TMEM63A	0.02878	0.01065	0.84	0.83

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ILMN_1710962	TMEM97	0.02713	0.03740	1.28	1.25
ILMN_1677228	TMLHE	0.04601	0.03062	0.89	0.88
ILMN_1684929	TOPBP1	0.00953	0.00535	1.08	1.21
ILMN_1729234	TPP1	0.02412	0.01968	0.79	0.80
ILMN_2329679	TPST2	0.00142	0.01790	0.78	0.82
ILMN_2405031	TRIM24	0.03787	0.03574	1.09	1.10
ILMN_2295518	TRO	0.00698	0.02862	0.84	0.83
ILMN_1748124	TSC22D3	0.00464	0.00989	0.86	0.84
ILMN_1673111	TSEN34	0.04057	0.02258	0.88	0.82
ILMN_1681679	TSPO	0.01346	0.02384	0.82	0.81
ILMN_1806415	TTLL1	0.00664	0.00457	0.83	0.81
ILMN_1663113	TTLL12	0.01657	0.00430	1.18	1.26
ILMN_1758497	TTYH1	0.00265	0.00201	0.73	0.70
ILMN_1803045	TUBGCP5	0.00715	0.04212	1.23	1.18
ILMN_1682783	TUG1	0.03830	0.01418	0.85	0.82
ILMN_2191568	TUSC4	0.03099	0.02522	0.89	0.88
ILMN_1806040	TYMS	0.00216	0.00330	1.39	1.35
ILMN_1714730	UBE2C	0.04040	0.00194	1.28	1.41
ILMN_2301083	UBE2C	0.00048	0.00004	1.35	1.38
ILMN_1713759	UBE2J1	0.01257	0.01898	1.16	1.16
ILMN_1703108	UBE2L6	0.04606	0.03363	0.95	0.84
ILMN_1711470	UBE2T	0.01761	0.01411	1.23	1.32
ILMN_2181363	UBE3C	0.04614	0.03300	1.14	1.21
ILMN_1755462	UGCGL1	0.00778	0.00752	0.87	0.85
ILMN_1786065	UHRF1	0.01031	0.00669	1.33	1.37
ILMN_2383693	UPF2	0.04571	0.03998	1.16	1.12
ILMN_1708059	USP13	0.01247	0.04977	1.25	1.22
ILMN_1796216	VASH1	0.00455	0.00390	0.82	0.87
ILMN_2348403	VRK3	0.03522	0.01238	1.19	1.17
ILMN_1788604	WBP2	0.00576	0.02403	0.77	0.89
ILMN_1799814	WDR57	0.00014	0.00329	1.32	1.25
ILMN_1778561	WEE1	0.02288	0.00452	1.25	1.24
ILMN_2085922	WRB	0.01284	0.00881	0.88	0.89
ILMN_1790807	XPC	0.01563	0.00017	1.17	1.24
ILMN_1696266	XRCC3	0.01797	0.00293	1.24	1.16
ILMN_1743097	XRCC6	0.03060	0.03946	1.25	1.23
ILMN_2097793	ZBTB4	0.03473	0.03254	0.90	0.87
ILMN_1703370	ZDHHC12	0.00739	0.04641	1.21	1.18
ILMN_1778803	ZFAND6	0.00836	0.02935	0.74	0.87
ILMN_1651438	ZFPM1	0.01857	0.02932	0.90	0.83
ILMN_2139052	ZKSCAN1	0.03002	0.03970	0.93	0.85
ILMN_3251506	ZNF69	0.02434	0.02555	1.16	1.17

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ILMN_2175447	ZNF767	0.02200	0.01598	0.89	0.89
ILMN_2374633	ZWILCH	0.00842	0.00823	1.36	1.38
ILMN_2362545	ZWINT	0.00267	0.00325	1.29	1.25
ILMN_2362549	ZWINT	0.00133	0.01731	1.31	1.29
ILMN_1827211		0.00566	0.00341	0.82	0.84
ILMN_1857017		0.03709	0.03041	0.95	0.89
ILMN_1887357		0.00847	0.03312	0.89	0.87
ILMN_1900795		0.01612	0.03829	0.88	0.87

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Supplementary Table S3. Biological process Gene Ontology terms in which the 628 differentially expressed genes (shared by both *TCF4* siRNA conditions at $P < 0.05$) are significantly enriched.

Gene Ontology Term	Count	%	Fold Enrichment	P	Bonferroni-corrected P
GO:0000279~M phase	50	9.14	3.17	3.10E-13	6.30E-10
GO:0000280~nuclear division	40	7.31	3.41	1.04E-11	2.12E-08
GO:0007067~mitosis	40	7.31	3.41	1.04E-11	2.12E-08
GO:0000087~M phase of mitotic cell cycle	40	7.31	3.37	1.49E-11	3.03E-08
GO:0048285~organelle fission	40	7.31	3.25	5.00E-11	1.02E-07
GO:0022403~cell cycle phase	53	9.69	2.65	6.75E-11	1.37E-07
GO:0051301~cell division	43	7.86	2.88	4.82E-10	9.78E-07
GO:0022402~cell cycle process	59	10.79	2.19	9.96E-09	2.02E-05
GO:0000278~mitotic cell cycle	46	8.41	2.36	7.01E-08	1.42E-04
GO:0007049~cell cycle	70	12.80	1.91	9.46E-08	1.92E-04
GO:0007059~chromosome segregation	19	3.47	4.34	1.57E-07	3.19E-04
GO:0006259~DNA metabolic process	46	8.41	1.97	1.09E-05	0.0219
GO:0007346~regulation of mitotic cell cycle	21	3.84	2.99	1.61E-05	0.0321
GO:0000075~cell cycle checkpoint	16	2.93	3.40	4.76E-05	0.0920
GO:0000226~microtubule cytoskeleton organization	19	3.47	2.89	7.28E-05	0.1374
GO:0007017~microtubule-based process	25	4.57	2.39	9.33E-05	0.1725
GO:0006260~DNA replication	23	4.20	2.50	1.03E-04	0.1892
GO:0010564~regulation of cell cycle process	15	2.74	2.98	3.81E-04	0.5389
GO:0048015~phosphoinositide-mediated signaling	9	1.65	4.65	4.55E-04	0.6029
GO:0007051~spindle organization	10	1.83	4.08	5.27E-04	0.6567
GO:0051726~regulation of cell cycle	30	5.48	1.96	5.52E-04	0.6741
GO:0000070~mitotic sister chromatid segregation	9	1.65	4.50	5.79E-04	0.6915
GO:0000819~sister chromatid segregation	9	1.65	4.50	5.79E-04	0.6915
GO:0006270~DNA replication initiation	5	0.91	5.97	0.0076	1
GO:0006281~DNA repair	24	4.39	1.76	0.0086	1
GO:0051327~M phase of meiotic cell cycle	10	1.83	2.72	0.0098	1
GO:0007126~meiosis	10	1.83	2.72	0.0098	1
GO:0051321~meiotic cell cycle	10	1.83	2.63	0.0123	1
GO:0031570~DNA integrity checkpoint	8	1.46	3.10	0.0127	1
GO:0006261~DNA-dependent DNA replication	9	1.65	2.79	0.0135	1
GO:0006974~response to DNA damage stimulus	29	5.30	1.59	0.0143	1
GO:0019932~second-messenger-mediated signaling	11	2.01	2.40	0.0147	1
GO:0006310~DNA recombination	11	2.01	2.40	0.0147	1

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Gene Ontology Term	Count	%	Fold Enrichment	P	Bonferroni-corrected P
GO:0007010~cytoskeleton organization	26	4.75	1.58	0.0220	1
GO:0007076~mitotic chromosome condensation	4	0.73	6.21	0.0226	1
GO:0006631~fatty acid metabolic process	13	2.38	2.00	0.0279	1
GO:0006266~DNA ligation	3	0.55	9.31	0.0362	1
GO:0007088~regulation of mitosis	7	1.28	2.78	0.0366	1
GO:0051783~regulation of nuclear division	7	1.28	2.78	0.0366	1
GO:0051052~regulation of DNA metabolic process	10	1.83	2.19	0.0370	1
GO:0042401~biogenic amine biosynthetic process	4	0.73	5.17	0.0376	1
GO:0006633~fatty acid biosynthetic process	7	1.28	2.65	0.0453	1
GO:0007098~centrosome cycle	4	0.73	4.77	0.0466	1
GO:0006323~DNA packaging	9	1.65	2.22	0.0474	1
GO:0000398~nuclear mRNA splicing, via spliceosome	15	2.74	1.74	0.0483	1

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Supplementary Table S4. MAGMA-generated *P*-values for schizophrenia association at genes that were differentially expressed in association with both *TCF4* siRNA conditions (at *P* < 0.05). Schizophrenia genome-wide association study data were generated by the Psychiatric Genomics Consortium (2014) and downloaded from <https://www.med.unc.edu/pgc/results-and-downloads>.

Gene	Entrez ID	chromosome	start	stop	n_snps	n_param	zstat	<i>P</i> -value
<i>XRCC3</i>	7517	14	104163954	104181823	30	11	6.38	8.86E-11
<i>DFNA5</i>	1687	7	24737974	24797639	230	53	5.50	1.95E-08
<i>GNL3</i>	26354	3	52719936	52728513	11	5	5.46	2.40E-08
<i>STAG1</i>	10274	3	136055999	136471245	596	146	5.23	8.55E-08
<i>CENPM</i>	79019	22	42334741	42343148	26	5	5.19	1.08E-07
<i>FOXO3</i>	2309	6	108881026	109005971	152	19	5.07	2.04E-07
<i>NCAPD3</i>	23310	11	134022337	134094426	122	27	4.47	3.91E-06
<i>CDC20</i>	991	1	43824626	43828874	5	5	4.35	6.71E-06
<i>PPAPDC1B</i>	84513	8	38120648	38126738	4	2	4.27	9.80E-06
<i>SGCE</i>	8910	7	94214536	94285521	91	16	4.25	0.0000109
<i>C1orf54</i>	79630	1	150245183	150253335	13	6	4.20	0.0000132
<i>KIAA1279</i>	26128	10	70748477	70776739	85	20	4.17	0.0000152
<i>SNRNP40</i>	9410	1	31732415	31769644	92	7	4.06	0.0000242
<i>NUTF2</i>	10204	16	67880819	67905219	30	9	4.03	0.0000284
<i>CSDE1</i>	7812	1	115259534	115300671	73	19	3.75	0.000089
<i>PSIP1</i>	11168	9	15464064	15511003	101	22	3.71	0.0001024
<i>SYNCRIP</i>	10492	6	86317502	86353043	52	17	3.69	0.0001105
<i>HMOX2</i>	3163	16	4524719	4560348	98	12	3.61	0.0001514
<i>ERI1</i>	90459	8	8860314	8890849	99	14	3.58	0.0001734
<i>ZDHHC12</i>	84885	9	131483148	131486408	1	1	3.55	0.0001939
<i>RANBP1</i>	5902	22	20105024	20114704	22	11	3.54	0.0001964
<i>LIN7B</i>	64130	19	49617618	49621717	17	7	3.49	0.0002455
<i>SEMA6D</i>	80031	15	47476403	48066420	1717	204	3.45	0.0002752
<i>C3orf37</i>	56941	3	128997684	129024136	49	7	3.44	0.0002921
<i>PJA2</i>	9867	5	108670410	108745675	242	28	3.43	0.0003006
<i>KIF20B</i>	9585	10	91461367	91534700	253	22	3.41	0.0003215
<i>KCNS1</i>	3787	20	43720950	43729753	14	9	3.38	0.0003621
<i>FANCI</i>	55215	15	89787194	89860362	115	19	3.36	0.0003959
<i>TLL1</i>	25809	22	43435522	43485434	176	39	3.33	0.0004371
<i>CENPA</i>	1058	2	27008882	27017457	23	4	3.31	0.0004655
<i>MFGE8</i>	4240	15	89441914	89456663	54	19	3.31	0.0004663
<i>TMLHE</i>	55217	X	154718672	154842622	127	23	3.28	0.0005137
<i>MED30</i>	90390	8	118532965	118552501	47	11	3.22	0.000652
<i>CTSF</i>	8722	11	66330935	66336047	12	4	3.20	0.0006931

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<i>PPM1G</i>	5496	2	27604061	27632496	28	6	3.14	0.0008546
<i>CSE1L</i>	1434	20	47662838	47713486	102	9	3.12	0.000918
<i>C10orf33</i>	84795	10	100143322	100174978	157	16	3.06	0.0011093
<i>ZFAND6</i>	54469	15	80351910	80430735	178	38	3.06	0.0011141
<i>DIP2C</i>	22982	10	320130	735608	831	192	3.00	0.0013308
<i>ATP5I</i>	521	4	666225	668127	2	2	2.96	0.0015161
<i>MFAP4</i>	4239	17	19286755	19290532	3	2	2.96	0.0015169
<i>SLC2A3</i>	6515	12	8071824	8088892	21	5	2.96	0.0015545
<i>TMEM108</i>	66000	3	132757171	133116619	1100	160	2.94	0.001641
<i>RAB2A</i>	5862	8	61429469	61536203	203	28	2.92	0.0017746
<i>PCDH9</i>	5101	13	66876966	67804468	1986	378	2.89	0.0019021
<i>LAMA5</i>	3911	20	60884121	60942368	247	54	2.85	0.0021977
<i>PPIL5</i>	122769	14	50065415	50081390	42	5	2.84	0.0022524
<i>LRSAM1</i>	90678	9	130213765	130265780	126	21	2.81	0.0025009
<i>TESK1</i>	7016	9	35605281	35610038	5	5	2.73	0.0031754
<i>ATP1B1</i>	481	1	169075947	169101960	78	22	2.66	0.0039292
<i>RRAS</i>	6237	19	50138552	50143400	6	2	2.62	0.0044055
<i>AMMECR1</i>	9949	X	109437414	109683461	110	45	2.61	0.0045418
<i>NRP1</i>	8829	10	33466419	33623833	573	141	2.57	0.0050441
<i>PGM2L1</i>	283209	11	74041361	74109502	175	26	2.51	0.0060449
<i>CELSR3</i>	1951	3	48673896	48700348	20	5	2.51	0.006046
<i>CHEK1</i>	1111	11	125495036	125546150	115	21	2.49	0.0064467
<i>FAM117B</i>	150864	2	203499901	203634480	154	36	2.47	0.0067011
<i>PSMG1</i>	8624	21	40547388	40555440	30	9	2.44	0.0073887
<i>FAM120B</i>	84498	6	170615844	170714237	236	46	2.44	0.0074346
<i>HDGF</i>	3068	1	156711899	156722240	16	7	2.43	0.0074717
<i>CD47</i>	961	3	107761941	107809935	91	22	2.41	0.0079708
<i>FAM83D</i>	81610	20	37554955	37581703	59	11	2.38	0.0086064
<i>DONSON</i>	29980	21	34950211	34961014	10	8	2.37	0.0088705
<i>PPP3R1</i>	5534	2	68405989	68479651	133	10	2.37	0.0089403
<i>UHRF1</i>	29128	19	4909510	4962165	137	47	2.34	0.0096975
<i>FEZ1</i>	9638	11	125315641	125366206	110	27	2.33	0.0098772
<i>C4orf34</i>	201895	4	39552550	39640481	195	55	2.33	0.010012
<i>SFRS4</i>	6429	1	29474250	29508637	59	12	2.30	0.010631
<i>IGFBP5</i>	3488	2	217536828	217560272	35	6	2.30	0.010647
<i>C9orf7</i>	11094	9	136325087	136335909	28	7	2.30	0.010801
<i>SPHK2</i>	56848	19	49122548	49133662	12	6	2.30	0.010845
<i>HNRNPAB</i>	3182	5	177631508	177638184	13	8	2.25	0.012108
<i>RHBDD1</i>	84236	2	227700671	227863926	263	22	2.25	0.012175
<i>OSGIN2</i>	734	8	90914096	90940096	46	12	2.25	0.012234
<i>CENPK</i>	64105	5	64813593	64858995	134	10	2.23	0.012826
<i>PCDHB2</i>	56133	5	140474237	140476964	7	3	2.23	0.012923

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<i>DIP2B</i>	57609	12	50898768	51142450	373	36	2.23	0.012941
<i>ARMET</i>	7873	3	51422692	51426828	5	1	2.22	0.013062
<i>MTIF3</i>	219402	13	28009776	28024739	65	14	2.21	0.013526
<i>TPP1</i>	1200	11	6633997	6640692	11	6	2.20	0.013749
<i>TMEM178</i>	130733	2	39892638	39945103	54	10	2.20	0.013778
<i>UBE2L6</i>	9246	11	57319128	57335803	41	10	2.18	0.014511
<i>DNM1</i>	1759	9	130965663	131017527	96	26	2.18	0.014534
<i>TCP1</i>	6950	6	160199530	160210735	29	7	2.18	0.014658
<i>HMGB1</i>	3146	13	31032877	31040081	6	2	2.17	0.014857
<i>TUSC4</i>	10641	3	50384919	50388486	1	1	2.17	0.01505
<i>RND2</i>	8153	17	41177258	41184058	9	3	2.16	0.015316
<i>BRCA1</i>	672	17	41196312	41277500	136	12	2.15	0.015833
<i>CMIP</i>	80790	16	81478775	81745367	1004	281	2.10	0.017941
<i>NOP56</i>	10528	20	2633254	2639039	15	9	2.09	0.018491
<i>PDCD5</i>	9141	19	33072094	33078358	14	9	2.08	0.018813
<i>TMEM63A</i>	9725	1	226033233	226070420	102	20	2.07	0.019133
<i>HNRNPH1</i>	3187	5	179041179	179050722	16	9	2.07	0.01931
<i>NT5DC3</i>	51559	12	104166081	104234975	306	48	2.06	0.019646
<i>CDYL</i>	9425	6	4706393	4955778	593	118	2.05	0.019945
<i>HPS1</i>	3257	10	100175955	100206704	100	23	2.02	0.021535
<i>BTBD1</i>	53339	15	83685175	83736106	129	29	2.01	0.022016
<i>DRD1IP</i>	50632	10	135138928	135150475	18	7	1.99	0.023035
<i>CTSB</i>	1508	8	11700033	11725646	139	33	1.98	0.023908
<i>SGOL2</i>	151246	2	201390865	201448818	119	17	1.98	0.023982
<i>GTF3C6</i>	112495	6	111279763	111289091	61	9	1.98	0.024055
<i>C2orf25</i>	27249	2	150426147	150444330	36	10	1.96	0.024957
<i>CDC25C</i>	995	5	137620959	137667516	97	17	1.96	0.025194
<i>SRPX2</i>	27286	X	99899163	99926296	43	23	1.96	0.025233
<i>IP6K1</i>	9807	3	49761728	49823973	82	13	1.96	0.025259
<i>BAMBI</i>	25805	10	28966424	28971868	6	4	1.94	0.02613
<i>NOVA1</i>	4857	14	26915089	27066960	219	23	1.92	0.027658
<i>IFI44</i>	10561	1	79115477	79129763	21	7	1.91	0.027906
<i>KIFAP3</i>	22920	1	169890470	170043879	409	37	1.91	0.027912
<i>CDC45</i>	8318	22	19467414	19508135	103	19	1.91	0.028153
<i>TMEM194</i>								
A	23306	12	57449426	57472574	31	10	1.89	0.0296
<i>AMT</i>	275	3	49454211	49460111	9	3	1.89	0.029633
<i>CENPE</i>	1062	4	104026963	104119566	168	19	1.88	0.029778
<i>CEP55</i>	55165	10	95256369	95288849	121	20	1.88	0.029956
<i>CDKN2A</i>	1029	9	21967751	21994490	32	11	1.88	0.030021
<i>NUP88</i>	4927	17	5289346	5323059	162	12	1.88	0.030039
<i>CHRNA1</i>	1134	2	175612320	175629200	42	9	1.87	0.030843

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<i>ITGAE</i>	3682	17	3617919	3704537	228	57	1.84	0.032751
<i>CCT6A</i>	908	7	56119378	56131682	29	11	1.82	0.034509
<i>CPT1C</i>	126129	19	50194365	50216988	68	12	1.81	0.03509
<i>HSD11B1L</i>	374875	19	5681035	5688533	7	6	1.80	0.035865
<i>XRCC6</i>	2547	22	42017295	42060052	59	12	1.77	0.038672
<i>NICN1</i>	84276	3	49459766	49466757	8	7	1.76	0.039092
<i>SF3B4</i>	10262	1	149895209	149900144	11	2	1.76	0.039306
<i>FAM3C</i>	10447	7	120988905	121036422	87	5	1.75	0.040425
<i>RNMT</i>	8731	18	13726704	13764554	97	16	1.74	0.041147
<i>PHF5A</i>	84844	22	41855721	41864708	11	2	1.73	0.041691
<i>CDT1</i>	81620	16	88870186	88875666	15	8	1.73	0.042158
<i>PNPLA7</i>	375775	9	140354405	140444986	28	6	1.71	0.043797
<i>DEF8</i>	54849	16	90015139	90034468	86	26	1.71	0.043918
<i>KIF23</i>	9493	15	69706627	69740764	24	4	1.68	0.046044
<i>INTS12</i>	57117	4	106603784	106629881	46	5	1.66	0.048372
<i>NPAL3</i>	57185	1	24742245	24799473	150	23	1.65	0.049799
<i>CSNK1E</i>	1454	22	38686697	38714089	31	11	1.64	0.050636
<i>SAAL1</i>	113174	11	18101890	18127638	85	6	1.64	0.050806
<i>SAFB2</i>	9667	19	5587010	5622938	81	20	1.61	0.053615
<i>ORC6L</i>	23594	16	46723558	46732306	4	3	1.60	0.054671
<i>C18orf55</i>	29090	18	71815746	71826204	43	5	1.60	0.055155
<i>SRPK1</i>	6732	6	35800811	35888957	182	12	1.59	0.056063
<i>MTHFD2</i>	10797	2	74425690	74442425	23	7	1.57	0.058228
<i>C11orf87</i>	399947	11	109292846	109299893	4	3	1.57	0.058283
<i>TMEM4</i>	10330	12	56704212	56710128	4	2	1.57	0.058331
<i>PLEKHG1</i>	57480	6	150920999	151164799	868	161	1.56	0.059496
<i>DACT3</i>	147906	19	47150869	47164395	13	6	1.56	0.059824
<i>SRI</i>	6717	7	87834432	87856308	33	13	1.55	0.060481
<i>RBBP8</i>	5932	18	20513295	20606449	183	17	1.54	0.061942
<i>SMARCD3</i>	6604	7	150936059	150974231	97	28	1.53	0.062594
<i>MELK</i>	9833	9	36572905	36677679	135	25	1.53	0.0631
<i>PALM</i>	5064	19	708953	748330	7	5	1.52	0.063798
<i>TIA1</i>	7072	2	70436576	70475779	65	5	1.48	0.068836
<i>FBXO31</i>	79791	16	87362942	87425708	175	47	1.48	0.069691
<i>RABL4</i>	11020	22	37154246	37172172	32	4	1.46	0.071563
<i>NEIL2</i>	252969	8	11627172	11644854	100	25	1.46	0.071695
<i>ANLN</i>	54443	7	36429432	36493400	177	26	1.46	0.072244
<i>FAM181B</i>	220382	11	82443046	82444906	6	4	1.46	0.072278
<i>FEN1</i>	2237	11	61560109	61564716	3	3	1.45	0.073036
<i>PLEKHB1</i>	58473	11	73357223	73373864	56	17	1.42	0.07796
<i>SLC16A14</i>	151473	2	230899690	230933715	116	31	1.40	0.081271
<i>SLC6A9</i>	6536	1	44462155	44497134	56	19	1.39	0.082596

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<i>C21orf7</i>	56911	21	30452873	30548204	308	33	1.38	0.083369
<i>NUF2</i>	83540	1	163291723	163325553	126	11	1.37	0.084712
<i>TMED1</i>	11018	19	10943114	10946983	4	4	1.37	0.085036
<i>SHMT1</i>	6470	17	18231187	18266856	94	16	1.37	0.085969
<i>CTNNAL1</i>	8727	9	111704851	111775764	206	43	1.36	0.086307
<i>FAM129A</i>	116496	1	184760166	184943682	358	60	1.35	0.088494
<i>PRKAG2</i>	51422	7	151253200	151574316	899	228	1.35	0.088601
<i>CDK2</i>	1017	12	56360556	56366568	6	5	1.35	0.089111
<i>LAPTM4B</i>	55353	8	98787809	98864830	384	51	1.34	0.089646
<i>TAF10</i>	6881	11	6632048	6633475	3	3	1.34	0.090781
<i>OCIAD2</i>	132299	4	48887405	48908815	23	6	1.34	0.090851
<i>EXOSC9</i>	5393	4	122722472	122738176	30	6	1.34	0.090861
<i>MTDH</i>	92140	8	98656407	98742488	134	14	1.32	0.093381
<i>SEZ6L2</i>	26470	16	29882480	29910580	15	6	1.31	0.095866
<i>JOSD2</i>	126119	19	51009259	51014345	11	7	1.31	0.095917
<i>RNF34</i>	80196	12	121837902	121862155	55	4	1.30	0.0962
<i>PLXNA1</i>	5361	3	126707437	126756235	158	19	1.29	0.097978
<i>ECH1</i>	1891	19	39306062	39322497	38	12	1.28	0.099942
<i>MXD4</i>	10608	4	2249160	2263739	33	5	1.27	0.1013
<i>PSMC3IP</i>	29893	17	40724329	40729747	4	1	1.27	0.10149
<i>CCNA2</i>	890	4	122737599	122745088	17	8	1.27	0.10227
<i>C1GALT1</i>	56913	7	7222246	7288251	352	38	1.26	0.10411
<i>MLF1IP</i>	79682	4	185615219	185655286	259	12	1.25	0.10587
<i>IFI35</i>	3430	17	41158742	41166476	14	5	1.25	0.10612
<i>ZBTB4</i>	57659	17	7362685	7387568	56	19	1.24	0.10669
<i>GXYLT1</i>	283464	12	42475647	42538673	136	24	1.24	0.10693
<i>WBP2</i>	23558	17	73841780	73851501	18	9	1.23	0.10857
<i>LEMD1</i>	93273	1	205350506	205391214	128	29	1.23	0.10898
<i>SIGMAR1</i>	10280	9	34634719	34637768	6	4	1.23	0.11009
<i>BIRC5</i>	332	17	76210277	76221716	62	10	1.22	0.11121
<i>LASS2</i>	29956	1	150937649	150947440	23	9	1.21	0.11296
<i>GATS</i>	352954	7	99798276	99869855	131	29	1.19	0.11622
<i>SRRM1</i>	10250	1	24969594	24999772	23	9	1.17	0.12084
<i>CGNL1</i>	84952	15	57730183	57842921	425	143	1.16	0.12317
<i>RASL10A</i>	10633	22	29708922	29711748	6	6	1.16	0.12371
<i>KDEL3</i>	11015	22	38864083	38879445	14	8	1.16	0.12397
<i>LRRC58</i>	116064	3	120043576	120068186	68	13	1.15	0.12601
<i>HEY1</i>	23462	8	80676245	80680098	8	7	1.13	0.12889
<i>MYO19</i>	80179	17	34851599	34891305	63	8	1.13	0.12901
<i>TUBGCP5</i>	114791	15	22833395	22873891	76	7	1.13	0.12933
<i>C2orf40</i>	84417	2	106682113	106694611	34	15	1.11	0.13379
<i>DAB2</i>	1601	5	39371780	39425335	163	23	1.10	0.13502

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<i>CST6</i>	1474	11	65779462	65780976	2	2	1.09	0.13753
<i>DDX10</i>	1662	11	108535816	108811650	421	35	1.09	0.13774
<i>KIAA2013</i>	90231	1	11979645	11986485	21	8	1.08	0.14088
<i>RGS16</i>	6004	1	182567758	182573548	9	5	1.07	0.14124
<i>EDA2R</i>	60401	X	65815479	65859140	25	12	1.07	0.14203
<i>H2AFX</i>	3014	11	118964584	118966177	3	2	1.07	0.14287
<i>CFLAR</i>	8837	2	201980877	202037411	119	17	1.07	0.14325
<i>ADA</i>	100	20	43248163	43280376	77	25	1.06	0.14422
<i>GP1BA</i>	2811	17	4835592	4838325	6	6	1.05	0.14659
<i>GGA1</i>	26088	22	38004481	38029571	30	10	1.04	0.14838
<i>EXOC6</i>	54536	10	94594470	94819251	536	48	1.04	0.14943
<i>CHI3L2</i>	1117	1	111770281	111786062	67	10	1.04	0.15008
<i>CLUAP1</i>	23059	16	3550963	3587669	69	20	1.03	0.15141
<i>ACADM</i>	34	1	76190043	76229355	139	12	1.03	0.15149
<i>C7orf57</i>	136288	7	48075117	48100894	75	11	1.02	0.1533
<i>TRIM24</i>	8805	7	138145079	138270333	165	26	1.02	0.15349
<i>RAB6A</i>	5870	11	73386683	73472201	230	38	1.02	0.15438
<i>DNAL4</i>	10126	22	39174513	39190161	25	10	1.01	0.15663
<i>WRB</i>	7485	21	40752213	40769815	31	10	1.00	0.15768
<i>LSM5</i>	23658	7	32524945	32534870	39	7	0.99	0.16151
<i>C9orf127</i>	51754	9	35829222	35854844	40	12	0.99	0.16176
<i>ZWINT</i>	11130	10	58117199	58121034	6	3	0.99	0.16206
<i>ACCS</i>	84680	11	44087729	44105569	58	19	0.97	0.16484
<i>OSGEPL1</i>	64172	2	190611386	190627924	20	7	0.96	0.16887
<i>SCAP</i>	22937	3	47455184	47517445	51	18	0.95	0.17116
<i>RAN</i>	5901	12	131356617	131360826	13	6	0.94	0.17249
<i>EFHD2</i>	79180	1	15736391	15756839	36	16	0.94	0.17335
<i>CDC14B</i>	8555	9	99262395	99382112	65	23	0.94	0.17416
<i>RAB4B</i>	53916	19	41284124	41302849	60	15	0.94	0.17464
<i>PBK</i>	55872	8	27667138	27695349	147	8	0.92	0.17776
<i>CHTF18</i>	63922	16	838622	848074	26	5	0.92	0.17825
<i>ORMDL1</i>	94101	2	190634993	190649097	30	6	0.92	0.17838
<i>C13orf27</i>	93081	13	103418460	103426149	16	10	0.91	0.18156
<i>DHRS7</i>	51635	14	60611496	60632211	57	4	0.91	0.1819
<i>ASPM</i>	259266	1	197053257	197115824	88	7	0.90	0.18438
<i>FRZB</i>	2487	2	183698002	183731498	92	18	0.89	0.1867
<i>ACTRT1</i>	139741	X	127184941	127186382	2	2	0.88	0.18826
<i>MTRF1L</i>	54516	6	153308400	153323925	47	12	0.88	0.18831
<i>OPRL1</i>	4987	20	62711471	62731996	37	19	0.88	0.1884
<i>MAD2L1</i>	4085	4	120980577	120988013	22	7	0.88	0.18845
<i>OSBPL7</i>	114881	17	45884733	45899147	48	14	0.88	0.19027
<i>SLC15A3</i>	51296	11	60704555	60719257	35	12	0.87	0.19234

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<i>MED14</i>	9282	X	40508795	40594804	89	19	0.86	0.19377
<i>PTBP1</i>	5725	19	797392	812327	29	7	0.86	0.19464
<i>EFNB3</i>	1949	17	7608520	7614693	9	4	0.86	0.19485
<i>MAP6</i>	4135	11	75297963	75379479	136	22	0.86	0.19583
<i>SERPINF1</i>	5176	17	1665259	1680859	61	8	0.86	0.19595
<i>BOC</i>	91653	3	112931375	113006306	223	60	0.84	0.20074
<i>SOX4</i>	6659	6	21593972	21598850	1	1	0.84	0.2008
<i>SEZ6</i>	124925	17	27281923	27333081	55	17	0.84	0.20116
<i>APBB3</i>	10307	5	139937853	139944189	4	3	0.82	0.20696
<i>CCNE2</i>	9134	8	95892452	95907482	36	9	0.81	0.20881
<i>KIF2C</i>	11004	1	45205490	45233439	54	11	0.81	0.20983
<i>FAM134B</i>	54463	5	16473147	16617118	419	95	0.79	0.2159
<i>COL9A2</i>	1298	1	40766163	40782939	58	15	0.78	0.2163
<i>FREM2</i>	341640	13	39261173	39461268	476	78	0.78	0.21657
<i>NME7</i>	29922	1	169101769	169337186	833	81	0.78	0.2183
<i>SIDT2</i>	51092	11	117049939	117068161	49	9	0.77	0.22142
<i>MBNL1</i>	4154	3	151985829	152183569	290	53	0.76	0.22336
<i>BCL6</i>	604	3	187439165	187463513	63	19	0.75	0.22607
<i>NTS</i>	4922	12	86268073	86276770	23	8	0.75	0.22669
<i>NAV2</i>	89797	11	19372271	20143147	2047	467	0.74	0.22922
<i>RGS4</i>	5999	1	163038396	163046592	13	8	0.72	0.2356
<i>HSPH1</i>	10808	13	31710762	31736117	52	7	0.72	0.23592
<i>PLP1</i>	5354	X	103031439	103047548	15	9	0.71	0.23819
<i>VRK3</i>	51231	19	50479724	50528805	125	15	0.71	0.23854
<i>TM2D1</i>	83941	1	62146719	62191095	89	17	0.71	0.23858
<i>MEF2D</i>	4209	1	156433519	156470529	54	11	0.70	0.24227
<i>GAL3ST4</i>	79690	7	99756865	99766373	12	5	0.69	0.24532
<i>GPR56</i>	9289	16	57653910	57698944	141	49	0.69	0.24641
<i>LPPR4</i>	9890	1	99729848	99775140	107	25	0.68	0.24944
<i>DEAF1</i>	10522	11	644225	695740	169	24	0.67	0.25263
<i>BCAP29</i>	55973	7	107220422	107263762	58	9	0.67	0.2529
<i>HNRNPM</i>	4670	19	8509803	8553998	122	16	0.66	0.25492
<i>NFXL1</i>	152518	4	47849257	47916633	161	20	0.65	0.25897
<i>COTL1</i>	23406	16	84599202	84651669	209	54	0.62	0.26638
<i>GYG2</i>	8908	X	2746863	2800861	176	37	0.62	0.26899
<i>ABR</i>	29	17	906759	1090616	361	93	0.61	0.26935
<i>FHDC1</i>	85462	4	153864135	153900848	63	29	0.61	0.271
<i>ODC1</i>	4953	2	10580508	10588453	15	5	0.61	0.27177
<i>KIF20A</i>	10112	5	137514417	137523404	10	7	0.59	0.27661
<i>GPC2</i>	221914	7	99767229	99774990	7	6	0.59	0.27863
<i>SRM</i>	6723	1	11114649	11120091	9	4	0.58	0.27957
<i>SMC2</i>	10592	9	106856541	106903700	107	15	0.58	0.27967

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FAM96B	51647	16	66965958	66968320	3	3	0.58	0.28042
SLC22A18	5002	11	2920951	2946476	87	37	0.58	0.28164
FANCD2	2177	3	10068113	10143614	182	15	0.57	0.28555
MRPL3	11222	3	131181045	131221860	78	10	0.57	0.28564
FLJ35258	284297	19	55999870	56030466	103	30	0.55	0.28946
RNASET2	8635	6	167343004	167370077	78	29	0.54	0.29588
TMEM54	113452	1	33360196	33366953	7	3	0.53	0.29792
CRTC3	64784	15	91073198	91188577	295	49	0.52	0.30012
HDC	3067	15	50534144	50558162	53	20	0.51	0.30395
LIG1	3978	19	48618703	48673560	221	23	0.49	0.31235
UBE2C	11065	20	44441255	44445596	6	5	0.49	0.31323
NACAD	23148	7	45120036	45128493	23	9	0.47	0.31916
NCALD	83988	8	102698770	103137135	1229	180	0.47	0.3202
TFAP2C	7022	20	55204358	55214339	10	6	0.44	0.32844
GAD1	2571	2	171673200	171717661	101	22	0.43	0.33207
SPC24	147841	19	11257831	11266484	37	12	0.43	0.3334
BLVRB	645	19	40953691	40971725	47	13	0.43	0.33364
FAM111A	63901	11	58910318	58922512	17	10	0.43	0.33368
ZKSCAN1	7586	7	99613219	99635403	36	14	0.42	0.3381
PTPN2	5771	18	12785477	12884334	233	53	0.42	0.33846
ATAD2	29028	8	124332090	124408705	48	22	0.40	0.34353
NOP58	51602	2	203130515	203168384	68	15	0.39	0.3478
TMEM141	85014	9	139685777	139687769	6	4	0.39	0.34899
APOD	347	3	195295573	195311076	3	1	0.38	0.35101
BEND5	79656	1	49193539	49242547	72	19	0.38	0.35146
ADAM19	8728	5	156904312	157002783	330	73	0.38	0.35293
MMP11	4320	22	24115036	24126503	17	6	0.38	0.35339
KLHDC9	126823	1	161068151	161070138	4	4	0.37	0.35405
PIF1	80119	15	65107831	65117838	35	10	0.35	0.36417
TPST2	8459	22	26921714	26986089	261	71	0.35	0.36462
ZWILCH	55055	15	66797431	66841823	134	23	0.34	0.36556
ZFPM1	161882	16	88520014	88601574	134	17	0.34	0.36773
KLF9	687	9	72999513	73029573	41	21	0.33	0.37036
IGSF3	3321	1	117117031	117210314	58	20	0.33	0.37064
SSBP1	6742	7	141438176	141450257	15	5	0.32	0.37485
KPNB1	3837	17	45727275	45761004	43	11	0.32	0.37527
C4orf48	401115	4	2043720	2045697	3	3	0.32	0.37537
C14orf106	55320	14	45672393	45722605	63	7	0.32	0.37622
CETN2	1069	X	151995871	151999301	4	3	0.31	0.37809
RAD21	5885	8	117858173	117887105	70	9	0.30	0.38027
TYMS	7298	18	657604	673499	58	9	0.30	0.38226
XPC	7508	3	14186647	14220172	78	21	0.29	0.38584

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JARID2	3720	6	15246527	15522253	686	170	0.29	0.38685
MCM4	4173	8	48872763	48890720	7	3	0.28	0.38913
LEFTY2	7044	1	226124298	226129083	6	4	0.27	0.39334
SFRS1	6426	17	56078280	56084707	7	5	0.26	0.39628
VASH1	22846	14	77228235	77249363	50	21	0.26	0.39685
ELOVL6	79071	4	110970229	111119820	489	139	0.26	0.39739
CLK1	1195	2	201717732	201729467	19	8	0.26	0.39782
CHKB	1120	22	51017387	51021428	17	8	0.26	0.39846
POFUT2	23275	21	46683843	46707811	68	21	0.26	0.3993
MANBAL	63905	20	35918051	35945663	34	8	0.25	0.39992
C14orf173	64423	14	105155943	105185947	58	11	0.25	0.40018
CRYL1	51084	13	20977806	21100012	403	65	0.25	0.4027
SALL2	6297	14	21989231	22005337	22	9	0.24	0.40376
CKS2	1164	9	91926113	91931618	16	9	0.24	0.40411
TSTD1	1E+08	1	161007421	161008774	2	2	0.24	0.40529
ID1	3397	20	30193092	30194313	4	2	0.24	0.40611
DLGAP5	9787	14	55614834	55658396	112	12	0.24	0.40707
ERMP1	79956	9	5784572	5833081	108	25	0.23	0.40893
PSPC1	55269	13	20248896	20357083	157	13	0.21	0.41547
TTYH1	57348	19	54926605	54947899	65	18	0.21	0.41711
DKK1	22943	10	54074041	54077417	6	4	0.20	0.422
DUT	1854	15	48623621	48635570	8	4	0.19	0.42509
GOLGA8B	440270	15	34817483	34875771	92	22	0.19	0.42536
MCAT	27349	22	43528212	43539403	24	9	0.18	0.42699
PM20D2	135293	6	89855769	89875284	46	11	0.18	0.42845
BNIP3	664	10	133781204	133795435	25	8	0.17	0.43094
CCDC86	79080	11	60609429	60618561	32	16	0.17	0.43385
CMTM4	146223	16	66648653	66730610	150	10	0.16	0.4346
SGOL1	151648	3	20202085	20227724	89	17	0.16	0.43507
SBK1	388228	16	28303840	28335170	24	9	0.16	0.43523
EBNA1BP2	10969	1	43629845	43638241	33	8	0.16	0.43584
HMMR	3161	5	162887517	162918951	76	18	0.16	0.4383
RRM1	6240	11	4115924	4160106	113	13	0.14	0.44416
PSMC6	5706	14	53173896	53194716	22	6	0.12	0.45069
HMGB2	3148	4	174252527	174255595	6	3	0.10	0.45834
PTMA	5757	2	232573235	232578251	20	8	0.09	0.46222
RBP1	5947	3	139236276	139258671	56	18	0.09	0.46326
AHCYL2	23382	7	128864855	129070052	371	69	0.09	0.46366
KRTCAP2	200185	1	155141884	155145804	10	6	0.08	0.4685
SNTA1	6640	20	31995763	32031698	43	9	0.08	0.46979
PRPF38B	55119	1	109234932	109244425	6	6	0.07	0.47374
POLD1	5424	19	50887593	50921271	59	11	0.06	0.47532

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<i>C18orf51</i>	125704	18	72102963	72124503	56	20	0.05	0.47921
<i>PTGES3</i>	10728	12	57057125	57082078	53	19	0.05	0.47927
<i>PTGDS</i>	5730	9	139871956	139876194	5	3	0.05	0.48179
<i>KIF11</i>	3832	10	94352825	94415152	225	29	0.04	0.48301
<i>PNCK</i>	139728	X	152935188	152939816	6	4	0.04	0.48338
<i>ZNF69</i>	7620	19	11998670	12025366	68	14	0.04	0.48439
<i>PRPS2</i>	5634	X	12809474	12842346	71	31	0.03	0.48614
<i>MTA2</i>	9219	11	62360675	62369312	9	3	0.03	0.48738
<i>IGFBP7</i>	3490	4	57897244	57976539	416	94	0.02	0.4922
<i>MSRB2</i>	22921	10	23384427	23410942	60	15	0.02	0.49316
<i>STC1</i>	6781	8	23699434	23712320	28	11	0.01	0.49738
<i>CABIN1</i>	23523	22	24407765	24574596	215	23	-0.01	0.50557
<i>P4HA2</i>	8974	5	131528303	131563556	64	19	-0.01	0.50589
<i>MICALL2</i>	79778	7	1473995	1499109	47	5	-0.02	0.50616
<i>ALDH3A1</i>	218	17	19641297	19651746	16	5	-0.02	0.50673
<i>UBE3C</i>	9690	7	156931655	157062066	366	33	-0.03	0.51302
<i>THY1</i>	7070	11	119288655	119294246	11	3	-0.04	0.51397
<i>CREG1</i>	8804	1	167510250	167523056	42	13	-0.04	0.51639
<i>TMEM134</i>	80194	11	67231819	67236731	2	2	-0.07	0.52727
<i>C3orf26</i>	84319	3	99536678	99897476	422	89	-0.07	0.52857
<i>CLIP3</i>	25999	19	36505562	36523797	23	11	-0.07	0.52859
<i>TMEM97</i>	27346	17	26646121	26655711	9	5	-0.07	0.52879
<i>CLIP2</i>	7461	7	73703805	73820273	192	35	-0.07	0.52888
<i>MKNK2</i>	2872	19	2037470	2051243	4	1	-0.08	0.53251
<i>LZTR1</i>	8216	22	21336558	21353326	29	11	-0.09	0.53445
<i>IGDCC3</i>	9543	15	65619465	65670378	82	24	-0.11	0.54182
<i>TACC3</i>	10460	4	1723266	1746898	128	7	-0.11	0.54248
<i>CBR1</i>	873	21	37442285	37445462	12	7	-0.11	0.54564
<i>NUP62</i>	23636	19	50410082	50432988	66	16	-0.12	0.54654
<i>PICK1</i>	9463	22	38453262	38471708	32	9	-0.13	0.5517
<i>ALDOC</i>	230	17	26900133	26903951	2	2	-0.14	0.55687
<i>PDZD8</i>	118987	10	119042606	119134937	199	18	-0.17	0.56577
<i>L3MBTL3</i>	84456	6	130339728	130462594	289	48	-0.17	0.56611
<i>TSPO</i>	706	22	43547535	43559248	33	11	-0.17	0.56667
<i>PDSS1</i>	23590	10	26986595	27035727	143	32	-0.17	0.56671
<i>KIAA0194</i>	22993	5	149380169	149432706	119	17	-0.17	0.56741
<i>KCNMB2</i>	10242	3	178254224	178562217	925	140	-0.17	0.56824
<i>NUPR1</i>	26471	16	28548662	28550495	7	4	-0.17	0.56882
<i>DNASE2</i>	1777	19	12986025	12992335	6	4	-0.18	0.57242
<i>POLR3G</i>	10622	5	89770681	89810369	83	27	-0.22	0.58819
<i>PCNA</i>	5111	20	5095599	5107268	16	2	-0.23	0.58926
<i>PTHLH</i>	5744	12	28111017	28124916	42	13	-0.23	0.58931

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FAM122B	159090	X	133903596	133931262	8	7	-0.23	0.59082
KDELC2	143888	11	108342833	108369159	38	13	-0.23	0.59162
ATAD3A	55210	1	1447523	1470067	30	4	-0.23	0.59279
RFXANK	8625	19	19303008	19312678	16	7	-0.24	0.59421
PMP22	5376	17	15133096	15168644	76	23	-0.25	0.59681
RAD51AP1	10635	12	4647950	4669213	25	7	-0.25	0.59761
PDGFRB	5159	5	149493402	149535422	110	32	-0.25	0.59951
TRO	7216	X	54947249	54957864	8	3	-0.25	0.59971
BEX1	55859	X	102317581	102319168	4	3	-0.25	0.60024
RRP15	51018	1	218458629	218511325	73	6	-0.26	0.60341
PDGFRA	5156	4	55095264	55164412	117	15	-0.27	0.60553
SELM	140606	22	31500763	31503551	6	3	-0.27	0.60569
ANXA3	306	4	79472742	79531605	116	22	-0.27	0.60771
DSN1	79980	20	35380194	35402230	13	12	-0.28	0.61177
PDCL3	79031	2	101179418	101193201	40	13	-0.29	0.61496
ALAD	210	9	116148592	116163618	32	16	-0.31	0.62056
POLQ	10721	3	121150273	121264853	211	39	-0.31	0.62066
EIF5A	1984	17	7210318	7215782	12	7	-0.32	0.62402
MCM5	4174	22	35796116	35820495	64	18	-0.32	0.62438
MYL9	10398	20	35169897	35178226	5	5	-0.32	0.62718
RBM43	375287	2	152104728	152118389	27	9	-0.34	0.6342
UBE2J1	51465	6	90036344	90062619	50	28	-0.34	0.63424
BGN	633	X	152760347	152775004	54	26	-0.35	0.6367
ANXA7	310	10	75135189	75173841	57	3	-0.35	0.637
NCAPD2	9918	12	6603298	6641132	123	19	-0.35	0.63818
RGS11	8786	16	318310	325914	9	6	-0.35	0.6382
UGCGL1	56886	2	128848754	128953251	239	32	-0.37	0.6434
RIN2	54453	20	19867165	19983103	372	74	-0.40	0.65619
PFKFB4	5210	3	48555117	48594227	32	13	-0.40	0.6569
LYRM5	144363	12	25348150	25357949	21	9	-0.40	0.6571
PIAS4	51588	19	4007749	4038067	86	12	-0.41	0.6583
PTPLA	9200	10	17631958	17659373	96	25	-0.41	0.65875
S100A4	6275	1	153516095	153518282	3	2	-0.41	0.65993
SNRPN	6638	15	25068794	25664609	1643	324	-0.42	0.6615
DBNL	28988	7	44084239	44101315	50	8	-0.42	0.66283
DPP7	29952	9	140004992	140009195	8	5	-0.43	0.66471
LOC401052	401052	3	10048102	10052779	16	3	-0.43	0.66797
SPATA6	54558	1	48761044	48937876	319	47	-0.46	0.67594
MCFD2	90411	2	47129009	47168994	171	22	-0.47	0.67942
C10orf10	11067	10	45471709	45474330	7	6	-0.47	0.67968
RPE	6120	2	210867352	210886291	18	9	-0.48	0.684
SFRS2	6427	17	74730197	74733493	2	2	-0.48	0.68446

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PEX6	5190	6	42931611	42946981	50	9	-0.49	0.68832
AURKA	6790	20	54944445	54967351	36	16	-0.49	0.68926
PCDH20	64881	13	61983818	61989655	12	6	-0.49	0.68951
TSC22D3	1831	X	106956451	107019017	40	19	-0.50	0.69194
NEK2	4751	1	211831598	211848972	44	12	-0.50	0.69285
EFNA1	1942	1	155100349	155107386	10	7	-0.51	0.69462
MFSN10	10227	4	2932288	2936586	10	8	-0.51	0.69666
GOT1	2805	10	101156627	101190530	55	13	-0.52	0.69844
SLC27A1	376497	19	17581300	17616977	89	15	-0.52	0.70011
C17orf90	339229	17	79632066	79633618	1	1	-0.53	0.7016
SAT1	6303	X	23801275	23804327	4	3	-0.53	0.70226
CAPN5	726	11	76777992	76837201	152	32	-0.53	0.70297
SCRG1	11341	4	174309299	174320617	17	4	-0.54	0.70645
CRELD1	78987	3	9975524	9987097	21	10	-0.54	0.70658
SEC13	6396	3	10342615	10362858	61	16	-0.55	0.70917
CEP78	84131	9	80850991	80881983	67	12	-0.56	0.71322
TSEN34	79042	19	54694119	54698394	8	3	-0.57	0.71505
NOTCH2	4853	1	120454176	120612317	91	6	-0.57	0.71509
LSM12	124801	17	42112003	42144987	42	12	-0.57	0.71621
DEK	7913	6	18224400	18264799	74	22	-0.58	0.71773
UPF2	26019	10	11962021	12085023	384	67	-0.59	0.72211
COQ2	27235	4	84184977	84206067	39	12	-0.60	0.7242
LGMN	5641	14	93170152	93215047	91	37	-0.62	0.73237
SIL1	64374	5	138282409	138534065	302	40	-0.62	0.73331
CYB561D1	284613	1	110036658	110043063	7	4	-0.63	0.73402
BRI3BP	140707	12	125478194	125510349	109	18	-0.63	0.73519
ABCC4	10257	13	95672083	95953687	1066	244	-0.63	0.73563
USP13	8975	3	179370933	179507189	331	87	-0.64	0.73912
PWWP2B	170394	10	134210702	134231363	64	24	-0.64	0.73953
TOPBP1	11073	3	133319449	133380737	173	24	-0.64	0.7402
RPS6	6194	9	19376254	19380235	8	4	-0.65	0.74086
SKA1	220134	18	47901392	47920538	56	9	-0.65	0.7422
ITM2C	81618	2	231729621	231743963	54	23	-0.66	0.74463
CYB5A	1528	18	71920527	71959251	133	18	-0.67	0.74997
HDAC3	8841	5	141000443	141016423	27	12	-0.68	0.75208
IDH3G	3421	X	153051221	153059967	12	5	-0.70	0.75699
MCM6	4175	2	136597196	136634011	61	9	-0.70	0.7584
COX6A1	1337	12	120875904	120878532	8	6	-0.73	0.76716
NOL6	65083	9	33461351	33473941	28	13	-0.76	0.77737
CRYAB	1410	11	111779350	111782473	2	1	-0.77	0.77956
BEX4	56271	X	102470020	102472123	8	5	-0.77	0.78009
PCCA	5095	13	100741269	101182691	807	178	-0.78	0.78302

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<i>NNMT</i>	4837	11	114166535	114183238	28	10	-0.81	0.78977
<i>PHYH</i>	5264	10	13319796	13342130	93	35	-0.81	0.79183
<i>ISOC1</i>	51015	5	128430442	128449721	69	15	-0.83	0.7958
<i>OXCT1</i>	5019	5	41730167	41870791	177	31	-0.83	0.79723
<i>COMMD6</i>	170622	13	76099350	76111991	37	15	-0.83	0.79792
<i>UBE2T</i>	29089	1	202300785	202311094	12	6	-0.86	0.8057
<i>C1QL1</i>	10882	17	43037061	43045644	30	12	-0.89	0.8129
<i>TLL12</i>	23170	22	43562628	43583137	90	22	-0.89	0.81408
<i>C1orf198</i>	84886	1	230972865	231005335	118	36	-0.89	0.81448
<i>KCNJ2</i>	3759	17	68165676	68176185	8	6	-0.93	0.82481
<i>H2AFY</i>	9555	5	134670071	134735577	87	17	-0.94	0.82596
<i>RGR</i>	5995	10	86004809	86018944	56	20	-0.97	0.83514
<i>RIOK1</i>	83732	6	7390062	7418270	56	10	-0.99	0.83903
<i>LMCD1</i>	29995	3	8543511	8609806	248	54	-1.00	0.84209
<i>WEE1</i>	7465	11	9595228	9611314	26	10	-1.01	0.8433
<i>IFI44L</i>	10964	1	79086088	79111830	46	12	-1.07	0.85757
<i>MATN2</i>	4147	8	98881311	99048948	459	106	-1.08	0.85911
<i>C17orf80</i>	55028	17	71228776	71245098	70	7	-1.11	0.86561
<i>CCRK</i>	23552	9	90581356	90589695	16	9	-1.15	0.87466
<i>RNF19A</i>	25897	8	101269288	101322327	58	9	-1.15	0.87506
<i>CEBPB</i>	1051	20	48807376	48809212	1	1	-1.20	0.8854
<i>CASZ1</i>	54897	1	10696661	10856707	275	75	-1.24	0.89326
<i>RUFY3</i>	22902	4	71570654	71674336	297	13	-1.28	0.89918
<i>EDNRB</i>	1910	13	78469616	78493903	50	12	-1.36	0.91281
<i>SSBP2</i>	23635	5	80715672	81047072	681	141	-1.54	0.93852
<i>OIP5</i>	11339	15	41601466	41624819	57	6	-1.54	0.93876
<i>C4orf46</i>	201725	4	159587831	159593202	2	2	-1.58	0.94324
<i>NUSAP1</i>	51203	15	41624926	41673248	78	12	-1.59	0.94438
<i>TMEM45A</i>	55076	3	100211463	100296285	208	41	-1.64	0.94922
<i>C14orf78</i>	113146	14	105403591	105444694	110	22	-1.69	0.95469
<i>C9orf140</i>	89958	9	139956579	139965028	19	7	-1.74	0.95876
<i>POLR2B</i>	5431	4	57845109	57897334	154	19	-1.82	0.96541
<i>PTPN12</i>	5782	7	77166773	77269388	245	30	-1.95	0.97458
<i>JDP2</i>	122953	14	75894509	75939404	133	37	-1.96	0.97524
<i>NAT9</i>	26151	17	72766686	72772470	17	3	-2.17	0.98501
<i>FBXO3</i>	26273	11	33762490	33796071	91	10	-2.21	0.98647
<i>MGAT2</i>	4247	14	50087489	50090199	1	1	-2.40	0.9919
<i>TBPL1</i>	9519	6	134274301	134308629	66	8	-2.49	0.99353

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