

Tew et al - Transcriptome-wide analysis of mRNA decay in normal and osteoarthritic human articular cartilage

Supplemental Data 3

This contains comparisons of mRNA half lives between normal and osteoarthritic chondrocytes. Genes in these comparisons have a >2 fold change in half life and are considered significant if they exhibit a false discovery rate (FDR) < 0.05.

Column Headings:

Illumina_ID

Gene ID - official gene symbol

Normal_HL - mean mRNA half life in normal chondrocytes (hours)

Intact_HL - mean mRNA half life in Intact osteoarthritic chondrocytes (hours)

Fibrillated_HL - mean mRNA half life in fibrillated osteoarthritic chondrocytes (hours)

OA_HL - mean mRNA half life in all osteoarthritic chondrocytes (hours)

Normal_HL:OA_HL - Ratio of mean mRNA half life in Normal and all OA datasets

FDR - False Discovery Rate for comparison indicated by tab name

Illumina_ID	GENE ID	Normal_HL	Intact_HL	Fibrillated_HL	OA_HL	Normal_HL: OA_HL	FDR
ILMN_1734611	RP11-404P21.8	14.3	2.1	2.4	2.3	6.3	4.4E-03
ILMN_1734611	BDKRB1	14.3	2.1	2.4	2.3	6.3	4.4E-03
ILMN_1670926	CHST15	16.8	2.6	3.0	2.8	6.1	4.7E-03
ILMN_1692056	HS3ST3A1	18.9	3.3	3.7	3.5	5.4	2.1E-03
ILMN_1741404	MSC	17.6	2.8	4.2	3.5	5.0	5.7E-03
ILMN_1809364	NTF3	24.0	5.0	5.8	5.4	4.5	1.3E-09
ILMN_1796471	GDF5	14.8	3.0	3.7	3.3	4.4	1.1E-02
ILMN_1673566	ADAMTS1	17.6	4.0	4.1	4.0	4.4	5.1E-03
ILMN_1691846	GOS2	10.0	2.3	2.5	2.4	4.2	2.2E-02
ILMN_1787691	CITED4	10.4	2.6	2.4	2.5	4.2	2.1E-02
ILMN_1735045	A4GALT	15.4	3.6	4.0	3.8	4.1	3.7E-03
ILMN_3237270	MARCH3	13.9	3.3	3.7	3.5	4.0	1.1E-02
ILMN_1792978	HAS2	16.6	5.4	3.1	4.2	3.9	5.2E-03
ILMN_1707350	TUSC1	10.9	2.6	3.0	2.8	3.9	1.9E-02
ILMN_1671142	GPR68	18.8	4.6	5.2	4.9	3.8	3.6E-03
ILMN_1702973	EVA1A	23.4	8.9	3.6	6.3	3.7	3.3E-03
ILMN_1795317	SCAND1	15.5	4.5	3.9	4.2	3.7	8.0E-03
ILMN_1798459	PPAN-P2RY11	11.1	3.3	2.7	3.0	3.7	1.8E-02
ILMN_1798459	PPAN	11.1	3.3	2.7	3.0	3.7	1.8E-02
ILMN_1812702	SIX1	9.6	2.3	3.0	2.6	3.6	2.8E-02
ILMN_1747227	ADORA1	12.7	3.3	3.8	3.5	3.6	2.0E-02
ILMN_1745271	EXOSC4	14.0	4.6	3.1	3.9	3.6	1.6E-02
ILMN_1745271	EXOSC4	14.0	4.6	3.1	3.9	3.6	1.6E-02
ILMN_1819384	VTRNA1-3	12.9	3.4	3.9	3.6	3.6	1.2E-02
ILMN_1794914	UBTD1	13.3	3.2	4.3	3.7	3.6	1.9E-02
ILMN_1811258	RELB	20.1	5.4	6.0	5.7	3.5	3.8E-03
ILMN_3239378	TADA2B	13.8	4.5	3.3	3.9	3.5	1.9E-02
ILMN_1754969	LMCD1	9.8	2.8	2.8	2.8	3.5	2.7E-02
ILMN_1654385	ASB13	9.0	2.7	2.4	2.6	3.5	2.8E-02
ILMN_2111237	MN1	8.2	2.4	2.4	2.4	3.5	4.7E-02
ILMN_1671891	PID1	15.5	3.4	5.5	4.5	3.5	5.2E-03
ILMN_1653001	CABLES1	15.0	4.5	4.2	4.3	3.5	9.6E-03
ILMN_1699644	MARCH3	17.7	4.7	5.6	5.1	3.5	6.9E-03
ILMN_1913678	IRAK3	19.1	4.4	6.7	5.5	3.5	3.6E-03
ILMN_1717706	PLK2	17.0	5.1	4.9	5.0	3.4	1.2E-02
ILMN_1677402	C11orf96	7.0	2.0	2.1	2.1	3.4	1.7E-02
ILMN_1714700	TRIB2	11.9	3.2	3.9	3.5	3.4	1.8E-02
ILMN_1795930	PTGER4	13.7	3.7	4.4	4.1	3.4	2.0E-02
ILMN_1779428	C12orf68	15.0	4.5	4.4	4.5	3.4	1.2E-02
ILMN_1760412	SHISA2	16.8	4.5	5.7	5.1	3.3	3.8E-03
ILMN_1794122	ZNF79	15.3	5.3	4.0	4.7	3.3	1.4E-02
ILMN_1781001	SOCS3	12.0	4.4	2.9	3.7	3.3	2.1E-02
ILMN_1726809	BHLHE41	11.3	3.2	3.7	3.4	3.3	2.3E-02
ILMN_1672121	C12orf68	11.0	3.5	3.2	3.4	3.3	2.0E-02
ILMN_2166972	BBS12	17.4	5.7	5.0	5.3	3.3	8.0E-03
ILMN_1747409	MT1L	20.0	7.0	5.4	6.2	3.2	4.7E-03
ILMN_1741628	ABL2	17.2	5.4	5.3	5.3	3.2	8.8E-03
ILMN_2376723	CDKN2B	10.5	3.3	3.2	3.3	3.2	1.5E-02
ILMN_1652486	THAP7	14.6	4.8	4.3	4.6	3.2	1.8E-02
ILMN_1796737	ZBTB7C	12.0	4.1	3.5	3.8	3.2	2.1E-02
ILMN_1751171	IRF2BP1	16.2	6.6	3.6	5.1	3.2	2.0E-02
ILMN_1794501	HAS3	22.8	9.4	5.1	7.2	3.2	3.5E-03
ILMN_1742782	GPANK1	17.3	5.6	5.4	5.5	3.2	9.0E-03
ILMN_1752914	ARHGAP31	16.8	5.9	4.9	5.4	3.1	1.3E-02
ILMN_1771601	UFSP1	16.8	6.3	4.4	5.4	3.1	1.1E-02
ILMN_3194638	EVA1A	24.0	9.2	6.3	7.7	3.1	2.5E-05

ILMN_2197128	OSR1	8.9	2.7	3.0	2.9	3.1	4.3E-02
ILMN_1690839	PPAPDC3	11.9	3.7	4.0	3.8	3.1	1.8E-02
ILMN_1811468	IRX3	20.0	9.0	3.9	6.5	3.1	1.2E-02
ILMN_1693004	SOGA1	16.2	5.0	5.5	5.2	3.1	8.2E-03
ILMN_2232368	PCIF1	14.3	4.7	4.6	4.6	3.1	1.6E-02
ILMN_2406304	PDZRN3	17.9	5.1	6.6	5.8	3.1	7.7E-03
ILMN_1765746	SFT2D3	18.3	6.7	5.2	6.0	3.1	4.5E-03
ILMN_1680856	MAMLD1	18.8	6.8	5.5	6.1	3.1	4.9E-03
ILMN_1746579	UBE2O	10.5	3.3	3.5	3.4	3.1	2.4E-02
ILMN_1669046	FOXQ1	24.0	9.3	6.5	7.9	3.0	3.1E-03
ILMN_1657679	VAV3	14.4	4.5	5.0	4.7	3.0	1.1E-02
ILMN_1682034	HEY2	24.0	9.3	6.7	8.0	3.0	1.4E-06
ILMN_1801833	ARHGAP24	15.4	4.7	5.6	5.1	3.0	4.1E-03
ILMN_1672660	MBP	20.1	8.8	4.6	6.7	3.0	1.2E-02
ILMN_1736093	SNX33	8.8	3.0	2.9	2.9	3.0	4.8E-02
ILMN_1900270	ETS1	13.3	4.1	4.8	4.4	3.0	2.1E-02
ILMN_1701441	LPAR1	12.6	3.6	4.8	4.2	3.0	1.7E-02
ILMN_1732197	MN1	9.8	3.3	3.3	3.3	3.0	3.0E-02
ILMN_1658094	ZNF365	18.9	6.5	6.2	6.4	3.0	4.7E-03
ILMN_2391891	MAP2K5	18.1	6.3	5.9	6.1	2.9	6.1E-03
ILMN_1651438	ZFPM1	9.0	3.3	2.8	3.1	2.9	4.4E-02
ILMN_1913060	CMKLR1	11.8	4.1	3.9	4.0	2.9	1.6E-02
ILMN_1741021	CH25H	24.0	4.5	11.9	8.2	2.9	4.6E-03
ILMN_1807050	SHC4	18.9	5.4	7.6	6.5	2.9	1.9E-03
ILMN_2399463	VAV3	16.2	8.1	3.1	5.6	2.9	3.7E-02
ILMN_1660031	P2RY6	21.5	7.6	7.2	7.4	2.9	8.7E-04
ILMN_1679217	FAM110B	6.2	2.1	2.1	2.1	2.9	1.8E-02
ILMN_1727553	C5orf54	13.2	5.2	3.8	4.5	2.9	2.2E-02
ILMN_1677429	TWIST2	19.2	7.1	6.1	6.6	2.9	3.8E-03
ILMN_3305466	ZNF788	13.9	4.8	4.8	4.8	2.9	1.6E-02
ILMN_3305466	ZNF788	13.9	4.8	4.8	4.8	2.9	1.6E-02
ILMN_2373444	ADORA1	18.6	5.9	7.0	6.4	2.9	4.3E-03
ILMN_1672908	TWIST1	17.0	4.7	7.1	5.9	2.9	1.4E-02
ILMN_1782922	PDE4B	5.8	2.0	2.0	2.0	2.9	2.1E-02
ILMN_3245707	RIMKLB	22.2	7.0	8.4	7.7	2.9	1.5E-04
ILMN_1651767	MKL1	14.9	5.6	4.7	5.2	2.9	1.6E-02
ILMN_1677962	GPHN	11.1	4.3	3.5	3.9	2.9	1.1E-02
ILMN_2372915	P2RY2	18.4	5.7	7.2	6.4	2.9	6.0E-03
ILMN_2402600	GLIS3	10.9	3.4	4.2	3.8	2.9	2.4E-02
ILMN_1713803	C17orf97	13.5	5.7	3.8	4.7	2.9	2.4E-02
ILMN_1703955	FBXO32	9.5	4.2	2.4	3.3	2.9	2.1E-02
ILMN_1719232	DGCR14	15.0	6.1	4.4	5.3	2.9	1.6E-02
ILMN_2153466	FAM50B	8.6	2.9	3.1	3.0	2.8	2.2E-02
ILMN_1746465	FJX1	13.2	5.9	3.5	4.7	2.8	2.1E-02
ILMN_1765001	NAT6	14.0	4.6	5.3	5.0	2.8	1.8E-02
ILMN_1727671	SSH1	20.3	7.3	7.1	7.2	2.8	2.4E-03
ILMN_1672589	SEMA4B	11.9	5.1	3.3	4.2	2.8	2.0E-02
ILMN_1681886	ADAMTS5	19.7	6.3	7.7	7.0	2.8	3.0E-03
ILMN_2169736	PGBD4	20.4	7.2	7.3	7.3	2.8	2.1E-03
ILMN_1690252	ALKBH2	13.9	4.9	5.0	4.9	2.8	2.0E-02
ILMN_1655796	MARCH3	15.1	4.8	6.0	5.4	2.8	1.5E-02
ILMN_1805543	ADAMTS9	17.7	5.3	7.4	6.3	2.8	9.1E-03
ILMN_1677432	SRGAP1	20.9	6.7	8.4	7.6	2.8	3.6E-03
ILMN_1659537	MED8	14.2	5.9	4.5	5.2	2.8	2.2E-02
ILMN_1795704	KIAA0232	12.9	5.3	4.1	4.7	2.7	1.8E-02
ILMN_2226304	ANKRD50	6.8	2.5	2.4	2.5	2.7	3.5E-02
ILMN_2413572	MARK2	14.8	4.8	6.0	5.4	2.7	1.6E-02
ILMN_1659106	PHLDA3	14.0	4.1	6.1	5.1	2.7	2.5E-02

ILMN_3235312	MAFG-AS1	16.6	5.3	6.9	6.1	2.7	1.8E-02
ILMN_1683932	ZNF425	15.5	6.2	5.2	5.7	2.7	7.8E-03
ILMN_1681949	PDGFRA	13.1	3.8	5.9	4.8	2.7	3.1E-02
ILMN_1798926	SOCS2	12.7	4.9	4.5	4.7	2.7	3.6E-03
ILMN_1728071	KRAS	14.1	4.8	5.6	5.2	2.7	1.9E-02
ILMN_1792951	ZHX2	7.0	2.6	2.6	2.6	2.7	2.9E-02
ILMN_1849186	ZNF704	20.2	6.6	8.4	7.5	2.7	5.3E-03
ILMN_1757847	C11orf68	13.9	5.3	5.1	5.2	2.7	1.8E-02
ILMN_1682081	RNF19B	8.8	3.4	3.1	3.3	2.7	2.8E-02
ILMN_1685109	POLR3D	16.1	6.9	5.0	6.0	2.7	1.1E-02
ILMN_1736628	AC135048.13	15.2	6.2	5.2	5.7	2.7	1.9E-02
ILMN_1736628	ORAI3	15.2	6.2	5.2	5.7	2.7	1.9E-02
ILMN_1783606	KMT2E	10.5	3.9	4.0	3.9	2.7	1.8E-02
ILMN_1838942	MT2A	10.2	3.8	3.9	3.8	2.7	3.6E-02
ILMN_1711005	CDC25A	18.6	9.8	4.1	6.9	2.7	1.9E-02
ILMN_3307906	PALMD	8.0	3.0	3.0	3.0	2.7	8.7E-04
ILMN_1701998	AFAP1	16.3	6.2	6.1	6.2	2.6	4.9E-03
ILMN_2400322	DYRK3	9.7	3.8	3.6	3.7	2.6	1.4E-02
ILMN_1717799	PRKCE	19.4	7.1	7.7	7.4	2.6	6.3E-03
ILMN_1737650	DIO2	23.1	7.2	10.4	8.8	2.6	1.7E-03
ILMN_2399304	NAV2	19.2	6.1	8.5	7.3	2.6	3.7E-03
ILMN_3272768	LINC00339	17.3	6.9	6.3	6.6	2.6	1.5E-02
ILMN_3251298	THNSL1	12.0	4.9	4.3	4.6	2.6	2.0E-02
ILMN_1680111	AHDC1	16.4	5.5	7.1	6.3	2.6	2.0E-02
ILMN_1678494	ZNF438	13.7	5.4	5.1	5.2	2.6	2.4E-02
ILMN_1757237	ASAP2	19.0	7.3	7.3	7.3	2.6	7.6E-03
ILMN_1717639	SIK1	19.4	10.3	4.6	7.5	2.6	1.7E-02
ILMN_1743933	TSHZ3	13.5	5.8	4.6	5.2	2.6	1.3E-02
ILMN_1813641	TOR4A	13.5	4.7	5.7	5.2	2.6	1.8E-02
ILMN_1734440	VIPAS39	14.9	5.5	6.0	5.8	2.6	1.6E-02
ILMN_1740200	USP18	15.7	6.3	5.9	6.1	2.6	1.2E-02
ILMN_2386444	ANGPTL4	10.5	3.6	4.5	4.1	2.6	1.2E-02
ILMN_1683178	JAK2	8.9	3.2	3.7	3.4	2.6	3.3E-02
ILMN_1807072	GOSR2	21.1	9.3	7.1	8.2	2.6	3.5E-03
ILMN_1675756	KCNJ15	23.8	9.8	8.8	9.3	2.6	3.0E-04
ILMN_1695485	FAM225A	20.2	6.6	9.1	7.9	2.6	5.4E-03
ILMN_1813489	RAF1	15.8	6.3	6.1	6.2	2.5	1.7E-02
ILMN_1787541	SPSB2	12.3	5.3	4.4	4.8	2.5	2.2E-02
ILMN_1737005	SMG9	12.1	5.1	4.4	4.8	2.5	2.2E-02
ILMN_1722891	CHST10	20.6	7.6	8.6	8.1	2.5	4.6E-03
ILMN_2106902	FOXN3	13.6	5.0	5.7	5.4	2.5	2.4E-02
ILMN_1764723	SH3PXD2B	16.9	7.2	6.1	6.6	2.5	1.1E-02
ILMN_2390526	RARB	22.7	9.9	8.0	8.9	2.5	9.8E-06
ILMN_1763634	PEX14	11.7	4.7	4.5	4.6	2.5	2.8E-02
ILMN_1704472	EID2	9.7	4.6	3.0	3.8	2.5	3.2E-02
ILMN_1774387	ZHX3	18.1	7.5	6.7	7.1	2.5	5.6E-03
ILMN_1754921	FAM43B	12.0	4.3	5.2	4.7	2.5	1.8E-02
ILMN_1780334	KCNJ2	17.8	4.2	9.8	7.0	2.5	2.0E-02
ILMN_2367258	SMOX	12.3	3.7	6.0	4.9	2.5	1.8E-02
ILMN_1795218	MIR1226	18.7	7.7	7.1	7.4	2.5	4.1E-03
ILMN_1795218	DHX30	18.7	7.7	7.1	7.4	2.5	4.1E-03
ILMN_1720771	STX11	11.4	4.9	4.1	4.5	2.5	4.0E-02
ILMN_1738816	FOXO1	4.5	1.8	1.8	1.8	2.5	1.8E-02
ILMN_1718968	MT1E	6.6	2.7	2.6	2.6	2.5	3.0E-02
ILMN_1705066	BTBD11	8.3	2.7	3.9	3.3	2.5	4.8E-02
ILMN_1668639	TBC1D10B	13.7	6.1	4.8	5.5	2.5	2.8E-02
ILMN_3240901	ZBTB7C	15.2	7.3	4.8	6.1	2.5	3.1E-02
ILMN_2391345	RPP25L	18.1	7.5	7.0	7.2	2.5	8.0E-03

ILMN_2391345	DCTN3	18.1	7.5	7.0	7.2	2.5	8.0E-03
ILMN_2211122	TRAPPC2P1	16.1	5.3	7.6	6.5	2.5	1.0E-02
ILMN_1668411	FHL2	10.0	3.8	4.2	4.0	2.5	3.8E-02
ILMN_1743367	FZD4	12.7	5.2	5.0	5.1	2.5	2.0E-02
ILMN_1733045	RAB36	18.7	7.3	7.7	7.5	2.5	5.1E-03
ILMN_1793522	PRKAB1	13.8	6.1	5.0	5.5	2.5	1.9E-02
ILMN_1713486	RNF25	16.8	8.1	5.4	6.8	2.5	9.1E-03
ILMN_2074258	BARD1	23.6	11.3	7.6	9.5	2.5	3.7E-03
ILMN_1789243	VPS33B	11.7	5.4	4.0	4.7	2.5	2.6E-02
ILMN_2207393	CNOT3	18.5	8.6	6.3	7.4	2.5	1.6E-02
ILMN_1736828	CHST10	9.1	3.8	3.6	3.7	2.5	2.4E-02
ILMN_1726704	DDI2	17.0	8.7	5.1	6.9	2.5	2.0E-02
ILMN_1726704	RSC1A1	17.0	8.7	5.1	6.9	2.5	2.0E-02
ILMN_3256471	FAM87A	20.3	8.2	8.2	8.2	2.5	8.0E-03
ILMN_3256471	FAM87B	20.3	8.2	8.2	8.2	2.5	8.0E-03
ILMN_1752520	SLFN11	18.7	8.1	7.0	7.6	2.5	1.5E-02
ILMN_1699249	ZNF649	14.8	5.8	6.2	6.0	2.5	1.5E-02
ILMN_1773959	ST6GALNAC5	21.8	10.0	7.6	8.8	2.5	5.1E-03
ILMN_1656335	RIT1	12.3	5.4	4.6	5.0	2.5	2.1E-02
ILMN_1744239	FEM1B	15.1	6.9	5.3	6.1	2.5	1.8E-02
ILMN_1793474	INSIG1	10.0	4.0	4.1	4.1	2.5	3.7E-02
ILMN_1701477	CCDC101	17.5	7.2	7.0	7.1	2.5	1.5E-02
ILMN_1860638	ST3GAL1	6.7	2.8	2.7	2.7	2.5	1.9E-02
ILMN_2072178	ECHDC3	11.6	4.6	4.8	4.7	2.5	9.1E-03
ILMN_1801610	METRNL	14.1	5.5	6.0	5.8	2.5	2.2E-02
ILMN_1672295	ZC3H12A	10.1	4.8	3.5	4.1	2.5	2.0E-02
ILMN_1723198	CDKN2B	17.4	8.1	6.1	7.1	2.5	7.2E-03
ILMN_1737360	TSPY26P	8.2	3.6	3.1	3.4	2.4	1.5E-02
ILMN_1741356	PRICKLE1	10.8	5.0	3.8	4.4	2.4	3.7E-02
ILMN_1746846	TTLL4	13.3	4.9	5.9	5.4	2.4	2.0E-02
ILMN_1757956	PCGF1	12.1	5.4	4.5	5.0	2.4	1.9E-02
ILMN_1674376	ANGPTL4	12.9	6.2	4.3	5.3	2.4	1.3E-02
ILMN_1657898	SEC14L2	16.5	8.9	4.7	6.8	2.4	1.8E-02
ILMN_1657898	RP4-539M6.19	16.5	8.9	4.7	6.8	2.4	1.8E-02
ILMN_1657898	MTFP1	16.5	8.9	4.7	6.8	2.4	1.8E-02
ILMN_1797031	HSPBAP1	15.4	7.7	4.9	6.3	2.4	1.8E-02
ILMN_1705733	RPRD2	16.4	6.3	7.2	6.7	2.4	2.1E-02
ILMN_1705733	RPRD2	16.4	6.3	7.2	6.7	2.4	2.1E-02
ILMN_1705266	RELA	15.0	5.7	6.7	6.2	2.4	1.9E-02
ILMN_1652185	IL4R	18.9	9.9	5.7	7.8	2.4	1.9E-02
ILMN_1744240	TBC1D31	20.1	10.6	6.0	8.3	2.4	1.5E-02
ILMN_1714741	RP11-395G23.3	19.8	9.1	7.2	8.2	2.4	3.7E-03
ILMN_2175265	TMEM11	12.4	6.4	3.8	5.1	2.4	3.7E-02
ILMN_1718129	MAP2K5	15.4	7.2	5.6	6.4	2.4	1.8E-02
ILMN_2358540	RBMS1P1	14.4	4.8	7.1	5.9	2.4	8.1E-03
ILMN_2358540	RBMS1	14.4	4.8	7.1	5.9	2.4	8.1E-03
ILMN_1718907	TSHZ1	9.8	4.2	3.9	4.0	2.4	2.8E-02
ILMN_1676905	TIGD7	9.3	3.9	3.9	3.9	2.4	1.4E-02
ILMN_3234997	MAP7D1	10.3	3.9	4.7	4.3	2.4	3.5E-02
ILMN_1734410	BNIP1	12.4	6.1	4.2	5.2	2.4	2.6E-02
ILMN_3271098	EVA1A	24.0	9.2	10.8	10.0	2.4	2.3E-03
ILMN_2075603	MRGPRF	11.8	4.6	5.3	4.9	2.4	3.6E-02
ILMN_1797191	KIAA0040	17.9	8.3	6.6	7.5	2.4	1.2E-02
ILMN_1786310	MVK	14.3	6.9	5.0	5.9	2.4	1.3E-02
ILMN_1776213	RGMB	20.1	9.7	7.1	8.4	2.4	9.1E-03
ILMN_2391750	SFMBT1	14.7	7.8	4.5	6.1	2.4	2.1E-02
ILMN_1705570	H2AFY2	17.2	7.2	7.2	7.2	2.4	1.0E-02
ILMN_1748283	PIM2	20.6	10.9	6.3	8.6	2.4	1.5E-02

ILMN_1854469	BICC1	15.0	5.6	6.9	6.3	2.4	1.8E-02
ILMN_2234710	C12orf60	16.4	8.7	5.1	6.9	2.4	2.4E-02
ILMN_1772910	GAS1	3.6	1.4	1.6	1.5	2.4	2.8E-02
ILMN_1692896	JMJD4	13.6	7.1	4.3	5.7	2.4	2.8E-02
ILMN_1882248	USP51	15.2	6.4	6.3	6.4	2.4	2.0E-02
ILMN_1705442	CMTM3	18.3	7.1	8.2	7.7	2.4	6.2E-03
ILMN_1665217	CEP19	24.0	8.9	11.3	10.1	2.4	4.7E-05
ILMN_1666502	SOBP	10.6	4.6	4.3	4.4	2.4	3.5E-02
ILMN_1807372	SPECC1L-ADORA2A	20.0	7.2	9.6	8.4	2.4	2.0E-02
ILMN_1807372	ADORA2A	20.0	7.2	9.6	8.4	2.4	2.0E-02
ILMN_1801124	MSANTD4	4.9	2.2	1.9	2.1	2.4	2.4E-02
ILMN_1728228	ZNF548	13.9	5.3	6.4	5.8	2.4	2.2E-02
ILMN_2389347	NR3C1	12.4	4.9	5.5	5.2	2.4	3.1E-02
ILMN_1807515	CSTF2T	14.2	6.5	5.5	6.0	2.4	2.4E-02
ILMN_3241262	PABPC4L	22.3	9.4	9.3	9.4	2.4	2.4E-03
ILMN_1718831	TMEM57	16.0	6.0	7.6	6.8	2.4	1.4E-02
ILMN_1660288	ZNF503-AS2	21.7	9.0	9.4	9.2	2.4	2.1E-03
ILMN_2339655	MAPK7	10.0	4.5	4.0	4.2	2.4	3.5E-02
ILMN_1684086	BDKRB2	22.1	8.5	10.2	9.4	2.4	6.1E-03
ILMN_1691702	ZNF775	18.1	6.0	9.3	7.7	2.4	1.3E-02
ILMN_1703324	PDSS1	20.2	10.4	6.7	8.6	2.4	1.4E-02
ILMN_1700168	LARS2	17.6	9.9	5.0	7.5	2.4	2.2E-02
ILMN_1686929	GPATCH3	13.7	7.0	4.7	5.8	2.4	1.8E-02
ILMN_3245310	CCDC94	15.0	7.1	5.7	6.4	2.3	2.0E-02
ILMN_1669142	NAA15	19.8	8.3	8.5	8.4	2.3	1.5E-02
ILMN_2362232	ZNF331	9.1	3.9	3.9	3.9	2.3	1.3E-02
ILMN_1734276	PMEPA1	21.9	8.0	10.6	9.3	2.3	2.3E-03
ILMN_2055156	PAG1	22.6	12.0	7.3	9.6	2.3	4.6E-03
ILMN_1764851	TP53RK	11.0	6.0	3.5	4.7	2.3	3.9E-02
ILMN_3248511	FAM167A	24.0	9.3	11.2	10.3	2.3	3.7E-03
ILMN_1654566	HSPA1L	13.3	6.2	5.2	5.7	2.3	1.1E-02
ILMN_2374244	DYRK2	13.9	6.6	5.2	5.9	2.3	2.0E-02
ILMN_1657148	CIRBP-AS1	23.3	11.3	8.6	10.0	2.3	1.6E-04
ILMN_1672834	SSH2	16.1	6.6	7.1	6.9	2.3	1.5E-02
ILMN_1739840	LRRC8A	16.5	6.5	7.6	7.0	2.3	8.1E-03
ILMN_1811650	DUS2	17.3	7.4	7.4	7.4	2.3	6.1E-03
ILMN_1681135	SPATA2	16.0	6.9	6.8	6.8	2.3	1.5E-02
ILMN_1752810	LARP6	4.8	2.1	2.0	2.1	2.3	3.4E-02
ILMN_1739156	DOPEY1	16.5	6.7	7.4	7.1	2.3	2.1E-02
ILMN_2212590	TMEM170A	17.9	10.5	4.9	7.7	2.3	2.5E-02
ILMN_1757627	ZMYND19	16.9	9.7	4.8	7.3	2.3	2.4E-02
ILMN_1770850	PNMA1	16.0	5.5	8.2	6.9	2.3	1.4E-02
ILMN_1770850	ELMSAN1	16.0	5.5	8.2	6.9	2.3	1.4E-02
ILMN_1716608	NGF	5.0	2.1	2.2	2.1	2.3	2.4E-02
ILMN_1658834	ZC3H18	18.4	7.2	8.7	7.9	2.3	4.9E-03
ILMN_1789596	ETV6	12.6	5.3	5.5	5.4	2.3	2.3E-02
ILMN_1763641	ZNF614	12.3	5.1	5.5	5.3	2.3	2.7E-02
ILMN_1764770	OXNAD1	14.7	7.5	5.2	6.4	2.3	2.8E-02
ILMN_1793732	FARS2	12.4	5.3	5.4	5.3	2.3	1.8E-02
ILMN_1771962	GLI3	12.7	5.0	6.0	5.5	2.3	2.1E-02
ILMN_1778168	ELMO2	17.9	7.6	8.0	7.8	2.3	7.7E-03
ILMN_1809708	KCTD21	13.0	5.5	5.9	5.7	2.3	1.5E-02
ILMN_1677261	LZTS1	11.9	5.1	5.2	5.2	2.3	3.0E-02
ILMN_1682930	SIPA1	15.9	7.2	6.6	6.9	2.3	1.4E-02
ILMN_1794230	SCAND1	19.7	7.9	9.3	8.6	2.3	3.6E-03
ILMN_1669982	RP11-482H16.1	11.7	3.7	6.5	5.1	2.3	4.9E-02
ILMN_1669982	CCDC85A	11.7	3.7	6.5	5.1	2.3	4.9E-02
ILMN_1805330	KLHL26	17.8	8.8	6.8	7.8	2.3	1.4E-02

ILMN_2342066	METRNL	14.7	5.9	6.9	6.4	2.3	2.0E-02
ILMN_1809040	LDLRAP1	15.8	6.8	6.9	6.9	2.3	1.7E-02
ILMN_2357134	SPHK1	23.4	9.5	11.0	10.2	2.3	4.6E-03
ILMN_1684197	GPKOW	22.0	11.0	8.3	9.6	2.3	8.6E-03
ILMN_1696684	FAM90A1	22.7	9.5	10.4	9.9	2.3	3.6E-03
ILMN_2246956	BCL2	11.4	4.4	5.5	5.0	2.3	3.4E-02
ILMN_1764788	TNFRSF1B	4.9	2.2	2.0	2.1	2.3	2.4E-02
ILMN_1806487	FAM109B	10.7	4.1	5.2	4.7	2.3	1.8E-02
ILMN_3215206	SMN2	22.1	11.7	7.6	9.7	2.3	6.9E-03
ILMN_3215206	SMN1	22.1	11.7	7.6	9.7	2.3	6.9E-03
ILMN_1815718	BTRC	16.5	8.0	6.5	7.2	2.3	1.8E-02
ILMN_1740345	THYN1	18.5	8.3	8.0	8.1	2.3	1.4E-02
ILMN_1807042	MARCKS	17.3	9.6	5.6	7.6	2.3	3.6E-02
ILMN_1790460	ZNF574	17.4	8.2	7.1	7.6	2.3	1.8E-02
ILMN_1687275	AJUBA	15.7	9.1	4.7	6.9	2.3	4.5E-02
ILMN_1803312	DIMT1	13.3	7.0	4.7	5.8	2.3	2.8E-02
ILMN_3310840	MIR21	14.9	7.9	5.2	6.6	2.3	1.5E-02
ILMN_3310840	VMP1	14.9	7.9	5.2	6.6	2.3	1.5E-02
ILMN_1652008	KNSTRN	22.1	11.9	7.5	9.7	2.3	6.9E-03
ILMN_1665384	SH3BP5L	15.1	7.1	6.2	6.7	2.3	2.0E-02
ILMN_1741585	SFMBT1	18.4	10.8	5.5	8.1	2.3	2.0E-02
ILMN_1671005	IRF2BP2	7.8	3.9	3.0	3.4	2.3	2.0E-02
ILMN_1658830	WBP1L	5.6	2.7	2.3	2.5	2.3	1.2E-02
ILMN_1705035	FBXL7	16.7	6.8	7.9	7.4	2.3	1.8E-02
ILMN_1695108	RSPO2	17.7	5.9	9.8	7.8	2.3	2.3E-02
ILMN_3245057	ASAP1	18.9	6.9	9.8	8.4	2.3	3.2E-03
ILMN_1756935	OSBPL6	20.1	11.8	6.0	8.9	2.3	1.9E-02
ILMN_1784655	TLCD1	19.1	8.5	8.4	8.5	2.3	9.0E-03
ILMN_1810274	HOXB2	21.3	12.7	6.1	9.4	2.3	8.0E-03
ILMN_1812297	CYP26B1	10.4	4.5	4.7	4.6	2.3	5.0E-02
ILMN_1813701	RASAL2	16.8	7.0	7.9	7.5	2.2	1.5E-02
ILMN_1772821	KIAA1671	17.0	9.4	5.7	7.6	2.2	3.0E-02
ILMN_1691293	RNF185	14.5	5.3	7.7	6.5	2.2	2.4E-02
ILMN_1778876	FAM179B	14.0	6.5	6.0	6.3	2.2	1.9E-02
ILMN_1751075	SETD4	14.7	7.2	5.9	6.6	2.2	1.8E-02
ILMN_1705116	SLC22A23	20.3	8.4	9.7	9.1	2.2	1.1E-02
ILMN_1718285	HOXC8	13.6	5.4	6.7	6.1	2.2	2.2E-02
ILMN_1673024	RBM15B	15.2	9.6	4.0	6.8	2.2	4.7E-02
ILMN_1697548	LPHN2	21.0	11.3	7.4	9.4	2.2	1.1E-02
ILMN_1696048	MEDAG	18.8	5.5	11.4	8.4	2.2	1.8E-02
ILMN_1729455	EML1	24.0	7.3	14.3	10.8	2.2	5.1E-03
ILMN_1776674	SAC3D1	11.5	5.6	4.7	5.2	2.2	4.0E-02
ILMN_1736112	ARHGAP10	10.3	4.8	4.5	4.6	2.2	4.7E-02
ILMN_1756590	SYS1	15.1	8.2	5.3	6.8	2.2	3.0E-02
ILMN_1801441	RFTN2	15.5	5.6	8.3	7.0	2.2	1.9E-02
ILMN_2364535	CTD-2323K18.1	11.3	5.1	5.1	5.1	2.2	4.7E-02
ILMN_2364535	SNUPN	11.3	5.1	5.1	5.1	2.2	4.7E-02
ILMN_3245410	LINC00638	20.1	7.8	10.2	9.0	2.2	9.8E-03
ILMN_1695945	MEIS2	9.2	5.2	3.1	4.1	2.2	3.4E-02
ILMN_1714170	SPSB1	4.8	2.2	2.1	2.1	2.2	3.7E-02
ILMN_1739496	PRRX1	9.6	3.6	5.0	4.3	2.2	2.4E-02
ILMN_2103388	ZBTB49	16.5	8.0	6.8	7.4	2.2	1.7E-02
ILMN_1785644	AP5S1	14.1	6.3	6.5	6.4	2.2	3.2E-02
ILMN_1785177	DNAJC14	10.5	5.2	4.3	4.7	2.2	4.0E-02
ILMN_1729987	SRC	9.8	5.1	3.8	4.4	2.2	4.8E-02
ILMN_1694923	PTPN9	17.4	7.2	8.5	7.9	2.2	1.7E-02
ILMN_1799814	SNRNP40	20.5	11.5	7.1	9.3	2.2	1.2E-02
ILMN_1805590	NAA38	19.9	11.0	7.0	9.0	2.2	1.8E-02

ILMN_1904628	S100A6	15.5	8.7	5.3	7.0	2.2	3.5E-02
ILMN_1686454	TIFA	16.9	10.5	4.8	7.7	2.2	3.6E-02
ILMN_1863185	RP1-39G22.7	12.3	6.7	4.5	5.6	2.2	4.4E-02
ILMN_3250446	ZNF626	19.6	10.0	7.8	8.9	2.2	9.2E-03
ILMN_1751051	C7orf25	9.6	5.0	3.7	4.4	2.2	2.7E-02
ILMN_1751051	PSMA2	9.6	5.0	3.7	4.4	2.2	2.7E-02
ILMN_1773927	C12orf61	17.8	7.4	8.8	8.1	2.2	1.6E-02
ILMN_2131493	MAVS	16.0	8.3	6.2	7.3	2.2	2.0E-02
ILMN_2080611	PDSS1	18.6	11.4	5.6	8.5	2.2	2.2E-02
ILMN_1815130	MICALL1	21.1	9.8	9.5	9.6	2.2	7.7E-03
ILMN_1809566	ZSCAN16	15.9	9.8	4.8	7.3	2.2	4.2E-02
ILMN_2179083	LOXL4	19.1	7.2	10.3	8.7	2.2	9.3E-03
ILMN_1776181	BIRC3	5.8	2.6	2.7	2.6	2.2	3.1E-02
ILMN_1727574	ZNF827	13.3	6.0	6.1	6.1	2.2	7.0E-03
ILMN_1806946	UBTF	19.0	8.1	9.3	8.7	2.2	9.1E-03
ILMN_1838313	LRRC8B	24.0	13.0	9.0	11.0	2.2	3.6E-03
ILMN_1666004	WASL	18.7	10.3	6.9	8.6	2.2	2.0E-02
ILMN_1743034	KIF1B	16.3	9.7	5.2	7.5	2.2	3.0E-02
ILMN_1743034	RN7SL731P	16.3	9.7	5.2	7.5	2.2	3.0E-02
ILMN_1829989	ZEB1-AS1	13.4	5.8	6.5	6.2	2.2	2.0E-02
ILMN_1660847	PFKFB3	13.5	6.8	5.5	6.2	2.2	3.7E-02
ILMN_1681780	MKX	18.3	10.6	6.1	8.4	2.2	2.4E-02
ILMN_2157951	STX6	17.1	9.9	5.7	7.8	2.2	3.9E-02
ILMN_1763328	GZF1	19.1	11.5	6.0	8.7	2.2	1.9E-02
ILMN_1737254	USP1	15.2	9.5	4.5	7.0	2.2	4.9E-02
ILMN_1687213	FAM167A	22.1	9.7	10.7	10.2	2.2	2.1E-03
ILMN_1781906	RBM17	13.6	7.6	4.9	6.3	2.2	3.7E-02
ILMN_1695290	FERMT2	12.0	4.5	6.6	5.5	2.2	2.6E-02
ILMN_1664034	ZNF485	18.8	11.5	5.8	8.7	2.2	1.6E-02
ILMN_1655608	KLHL18	15.1	9.4	4.6	7.0	2.2	4.9E-02
ILMN_1741976	SMARCAD1	8.8	5.1	3.0	4.0	2.2	4.7E-02
ILMN_1679655	WDR82	9.1	3.9	4.6	4.2	2.2	1.5E-02
ILMN_2199298	TPGS1	18.9	8.5	8.9	8.7	2.2	7.7E-03
ILMN_1687743	BTBD7	10.1	5.1	4.3	4.7	2.2	2.8E-02
ILMN_2186137	RRAD	19.3	6.6	11.3	9.0	2.2	2.5E-02
ILMN_3178406	KLHL29	17.5	6.5	9.8	8.1	2.2	1.8E-02
ILMN_1806845	ALG3	20.4	12.0	6.9	9.5	2.2	1.5E-02
ILMN_1718712	FAM217B	20.5	12.8	6.2	9.5	2.2	1.4E-02
ILMN_1708203	OTUD4	17.0	10.1	5.7	7.9	2.1	2.2E-02
ILMN_1661653	DET1	17.9	6.6	10.1	8.3	2.1	1.6E-02
ILMN_2376520	PPP2R3A	15.9	7.0	7.9	7.4	2.1	1.3E-02
ILMN_1718770	MAMSTR	20.9	9.5	10.1	9.8	2.1	2.2E-03
ILMN_1733863	UBALD1	14.7	7.9	5.9	6.9	2.1	3.6E-02
ILMN_1673370	FBXL5	17.5	9.2	7.2	8.2	2.1	1.8E-02
ILMN_1758086	SNAI1	16.7	7.3	8.4	7.8	2.1	1.2E-02
ILMN_1690546	PPP3CC	8.2	4.1	3.6	3.9	2.1	4.9E-02
ILMN_1663976	PDLIM4	20.8	6.9	12.6	9.7	2.1	1.3E-02
ILMN_1691487	TRAF2	16.4	7.9	7.5	7.7	2.1	1.7E-02
ILMN_1758250	TRAFD1	11.6	5.1	5.7	5.4	2.1	3.5E-03
ILMN_3238740	CENPBD1	8.4	4.4	3.4	3.9	2.1	3.4E-02
ILMN_3187254	RP11-209M4.1	16.9	10.3	5.6	7.9	2.1	4.0E-02
ILMN_1695961	CLK3	18.1	11.6	5.5	8.5	2.1	2.7E-02
ILMN_1704842	ARL4A	23.3	14.2	7.7	10.9	2.1	4.4E-03
ILMN_1726368	ZNF135	18.0	8.8	8.1	8.5	2.1	2.1E-02
ILMN_1741985	BBS10	13.7	7.0	5.9	6.4	2.1	1.6E-02
ILMN_1695246	KLHDC8B	16.6	8.0	7.6	7.8	2.1	3.9E-03
ILMN_1693702	MRFAP1L1	18.1	7.6	9.4	8.5	2.1	9.2E-03
ILMN_1705433	CBLL1	15.6	6.9	7.8	7.4	2.1	1.9E-02

ILMN_1743275	SH3RF3	20.5	9.5	9.8	9.7	2.1	1.1E-02
ILMN_1777397	MSX1	15.3	9.8	4.6	7.2	2.1	4.5E-02
ILMN_2342695	PDGFA	18.8	6.9	10.9	8.9	2.1	2.9E-02
ILMN_1789775	WDR74	10.6	6.1	3.9	5.0	2.1	4.6E-02
ILMN_1752283	ITCH	13.6	6.5	6.4	6.4	2.1	3.7E-02
ILMN_1801121	SENP2	19.4	11.2	7.2	9.2	2.1	1.8E-02
ILMN_2201966	N4BP1	12.8	5.8	6.3	6.1	2.1	2.0E-02
ILMN_1705201	FOXC2	14.1	7.2	6.2	6.7	2.1	3.4E-02
ILMN_2353240	USF1	23.5	11.7	10.6	11.2	2.1	7.8E-03
ILMN_1754121	CSK	20.5	8.6	10.8	9.7	2.1	5.1E-03
ILMN_1746276	EPC1	15.7	9.2	5.7	7.5	2.1	3.3E-02
ILMN_1663772	SIX2	16.5	6.5	9.2	7.9	2.1	2.3E-02
ILMN_1798256	UPP1	19.8	9.5	9.3	9.4	2.1	5.6E-03
ILMN_3257145	ARHGAP42	20.9	10.5	9.4	9.9	2.1	1.1E-02
ILMN_1651692	STK10	18.8	10.8	7.0	8.9	2.1	1.5E-02
ILMN_1849228	LINC01096	15.3	6.9	7.6	7.3	2.1	3.1E-02
ILMN_1815759	CTDP1	17.5	11.1	5.5	8.3	2.1	3.6E-02
ILMN_1882590	NACC2	13.4	7.4	5.4	6.4	2.1	2.1E-02
ILMN_2200915	RIPPLY2	21.6	8.1	12.5	10.3	2.1	9.3E-03
ILMN_1813423	NAA60	13.5	6.9	5.9	6.4	2.1	3.6E-02
ILMN_1813423	NAA60	13.5	6.9	5.9	6.4	2.1	3.6E-02
ILMN_1857897	AGAP1	20.4	10.6	8.9	9.7	2.1	1.3E-02
ILMN_1797046	MTHFSD	17.7	8.0	8.9	8.4	2.1	2.0E-02
ILMN_1759232	IRS1	4.1	2.2	1.8	2.0	2.1	4.1E-02
ILMN_2100693	MAP2K4	16.2	10.1	5.3	7.7	2.1	4.2E-02
ILMN_2319952	VDR	17.1	10.6	5.7	8.2	2.1	4.2E-02
ILMN_3239060	KRBA1	13.8	6.8	6.4	6.6	2.1	2.0E-02
ILMN_1692219	RAB11FIP1	16.9	10.0	6.2	8.1	2.1	4.0E-02
ILMN_1809245	PITPNB	10.9	5.6	4.9	5.2	2.1	3.9E-02
ILMN_1709044	TGIF2	17.2	10.4	6.1	8.2	2.1	4.0E-02
ILMN_3307719	ZNF490	17.6	10.5	6.3	8.4	2.1	3.6E-02
ILMN_1688725	UTP14A	18.6	11.4	6.5	8.9	2.1	2.1E-02
ILMN_1798817	SDR42E1	16.4	7.8	7.9	7.9	2.1	1.4E-02
ILMN_1751773	POLD3	17.1	10.2	6.2	8.2	2.1	2.8E-02
ILMN_1742923	ZNF584	19.3	7.6	10.9	9.3	2.1	1.1E-02
ILMN_3272603	FAM60A	20.4	11.2	8.4	9.8	2.1	2.0E-02
ILMN_1703511	PDZRN3	12.7	5.2	7.1	6.1	2.1	3.3E-02
ILMN_1653730	OXCT2P1	14.7	6.8	7.3	7.0	2.1	2.4E-02
ILMN_1653730	OXCT2	14.7	6.8	7.3	7.0	2.1	2.4E-02
ILMN_1765500	NDUFV3	12.1	5.9	5.7	5.8	2.1	3.4E-02
ILMN_2354269	ZC2HC1C	17.7	10.9	6.2	8.5	2.1	3.3E-02
ILMN_1805192	ITPRIP	4.1	2.1	1.8	2.0	2.1	2.4E-02
ILMN_3237956	ZC3H12C	20.3	11.5	8.0	9.8	2.1	1.2E-02
ILMN_1678075	CDYL	16.2	8.2	7.4	7.8	2.1	2.3E-02
ILMN_1702763	ZMYM1	20.0	11.3	8.0	9.7	2.1	1.4E-02
ILMN_1720926	PSMD5	20.1	13.0	6.5	9.7	2.1	1.8E-02
ILMN_2323944	FAM110A	17.9	11.1	6.3	8.7	2.1	2.4E-02
ILMN_1695847	ZKSCAN5	16.0	8.9	6.6	7.7	2.1	1.4E-02
ILMN_1695357	SPDL1	19.9	11.4	7.9	9.6	2.1	1.7E-02
ILMN_3235647	SIK1	18.6	12.3	5.7	9.0	2.1	2.4E-02
ILMN_1672135	ZNF615	8.3	3.9	4.1	4.0	2.1	2.0E-02
ILMN_1793543	C1orf51	8.2	3.8	4.2	4.0	2.1	3.3E-02
ILMN_3244176	RP11-166D19.1	14.3	5.2	8.7	7.0	2.1	3.8E-02
ILMN_1702691	TNFAIP3	16.7	10.4	5.9	8.1	2.1	3.8E-02
ILMN_1676010	SP1	11.1	6.3	4.6	5.4	2.1	4.2E-02
ILMN_2182647	PINX1	21.1	11.2	9.4	10.3	2.1	1.3E-02
ILMN_1755850	ZNF350	12.4	6.3	5.9	6.1	2.0	3.1E-02
ILMN_1742738	LURAP1	16.4	8.8	7.2	8.0	2.0	2.0E-02

ILMN_2205032	MAGEE1	14.5	6.4	7.8	7.1	2.0	3.3E-02
ILMN_2317730	ELMO2	12.0	5.2	6.6	5.9	2.0	4.6E-02
ILMN_2250923	FOXP1	18.9	10.6	7.8	9.2	2.0	1.8E-02
ILMN_2413041	TEAD4	17.7	9.3	8.0	8.7	2.0	1.8E-02
ILMN_1679891	NAF1	20.5	12.1	8.0	10.0	2.0	1.4E-02
ILMN_1682139	RAI14	21.8	8.9	12.4	10.7	2.0	5.2E-03
ILMN_1791002	SKP2	20.7	13.9	6.3	10.1	2.0	1.8E-02
ILMN_1793578	ZFP37	6.8	3.3	3.3	3.3	2.0	1.8E-02
ILMN_1791057	IFNAR2	21.1	9.4	11.3	10.3	2.0	9.2E-03
ILMN_1740490	ZFP82	8.9	4.1	4.6	4.3	2.0	4.0E-02
ILMN_2230577	KCTD7	13.2	6.6	6.3	6.5	2.0	3.5E-02
ILMN_2230577	RABGEF1	13.2	6.6	6.3	6.5	2.0	3.5E-02
ILMN_1677785	ZNF559	13.8	7.1	6.4	6.8	2.0	1.4E-02
ILMN_1783728	TBRG4	11.0	6.2	4.6	5.4	2.0	3.7E-02
ILMN_1686968	AL513327.1	12.2	5.1	6.8	6.0	2.0	2.4E-02
ILMN_1686968	ZNF362	12.2	5.1	6.8	6.0	2.0	2.4E-02
ILMN_1703926	PTGER2	12.3	5.3	6.8	6.0	2.0	2.0E-02
ILMN_1811972	MYCBP2	17.0	7.4	9.4	8.4	2.0	1.8E-02
ILMN_1718900	KCTD2	22.8	10.0	12.5	11.2	2.0	2.2E-03
ILMN_2176931	PELI3	19.8	10.3	9.2	9.8	2.0	7.1E-03
ILMN_1683082	RPUSD1	15.8	10.0	5.6	7.8	2.0	4.5E-02
ILMN_1753482	FAM86C1	17.1	6.3	10.6	8.4	2.0	2.0E-02
ILMN_2119535	RIPK1	9.9	5.4	4.3	4.9	2.0	3.0E-02
ILMN_1726153	MIR4435-1HG	14.7	9.7	4.9	7.3	2.0	4.1E-02
ILMN_2369603	CPEB1	22.2	10.8	11.2	11.0	2.0	3.5E-03
ILMN_2370208	CMTM3	22.0	8.1	13.6	10.9	2.0	5.6E-03
ILMN_1704637	TRMT44	22.1	13.5	8.3	10.9	2.0	3.4E-03
ILMN_1781198	PPP1R3D	11.0	5.9	5.0	5.4	2.0	2.1E-02
ILMN_1661695	IRAK3	15.8	5.5	10.2	7.8	2.0	1.5E-02
ILMN_1677404	RAP2A	21.5	11.6	9.8	10.7	2.0	1.6E-02
ILMN_1654357	ZNF24	18.0	11.9	5.9	8.9	2.0	3.1E-02
ILMN_1808047	PHC2	8.2	4.5	3.6	4.1	2.0	2.3E-02
ILMN_1725312	RASA1	13.0	5.7	7.2	6.5	2.0	1.8E-02
ILMN_1703487	LMO4	20.7	8.1	12.5	10.3	2.0	9.1E-03
ILMN_2415421	SLC30A2	16.3	6.8	9.4	8.1	2.0	4.2E-02
ILMN_1752510	FAM13A	14.8	7.8	6.9	7.4	2.0	3.7E-02
ILMN_2283196	ZSWIM3	18.0	11.3	6.6	9.0	2.0	1.9E-02
ILMN_1719064	KCTD10	11.6	6.8	4.7	5.7	2.0	4.5E-02
ILMN_1698038	INMT-FAM188B	24.0	9.0	14.9	11.9	2.0	3.6E-03
ILMN_1698038	FAM188B	24.0	9.0	14.9	11.9	2.0	3.6E-03
ILMN_2341254	STARD13	4.4	2.1	2.3	2.2	2.0	2.3E-02
ILMN_1749424	SSR4P1	15.8	8.8	7.0	7.9	2.0	2.5E-02
ILMN_1730794	SERTAD4	21.8	7.4	14.3	10.8	2.0	1.3E-02
ILMN_1679929	KLF13	5.4	2.7	2.7	2.7	2.0	2.2E-02
ILMN_1690241	BATF2	21.4	11.5	9.7	10.6	2.0	3.7E-03
ILMN_2414848	TBRG4	12.1	7.4	4.7	6.0	2.0	2.0E-02
ILMN_2197247	POLR3A	11.2	6.3	4.9	5.6	2.0	4.2E-02
ILMN_1719202	ZNF174	17.1	10.3	6.8	8.5	2.0	4.0E-02
ILMN_3308118	RP11-166D19.1	15.4	7.0	8.3	7.7	2.0	2.5E-02
ILMN_3308118	MIR125B1	15.4	7.0	8.3	7.7	2.0	2.5E-02
ILMN_1783910	TRAF6	15.9	8.9	6.9	7.9	2.0	3.6E-02
ILMN_2314007	TCF12	19.7	10.7	9.0	9.8	2.0	1.8E-02
ILMN_1656373	BNC2	7.4	3.6	3.7	3.7	2.0	1.4E-02
ILMN_1692145	ZNF14	6.7	12.0	14.9	13.4	0.5	4.6E-02
ILMN_1689552	FAM63A	11.1	20.6	24.0	22.3	0.5	1.3E-02
ILMN_2399310	MLLT10	9.5	17.7	22.5	20.1	0.5	1.5E-02
ILMN_2371590	DDX17	10.1	19.5	24.0	21.7	0.5	1.8E-02
ILMN_3243664	NPIP11	8.2	14.2	22.6	18.4	0.4	2.0E-02

ILMN_2196347	CDKN1B	6.5	16.8	13.5	15.1	0.4	1.7E-02
ILMN_2412380	TSC22D1	3.9	11.5	10.8	11.1	0.4	3.7E-02
ILMN_1680279	USP49	7.0	19.8	21.9	20.8	0.3	2.1E-03