

Supplementary Material

Identification of host transcriptional networks showing concentration-dependent regulation by

HPV16 E6 and E7 proteins in basal cervical squamous epithelial cells

Stephen P Smith¹, Cinzia G Scarpini², Ian J Groves², Richard I Odle² and Nicholas Coleman^{1,2}

1. Cambridge University Hospitals, Addenbrooke's Hospital, Cambridge, CB2 2QQ, UK

2. Department of Pathology, University of Cambridge, CB2 1QP, UK

Legends to Supplementary Figures and Tables.

Supplementary Figure S1. Signalling pathway impact analysis (SPIA) evidence plots.

Each dot represents a pathway in the Kyoto Encyclopedia of Genes and Genomes (KEGG) database. The y-axis shows the degree of perturbation and the x-axis the enrichment score in the gene input list (genes associated with HPV16 E6 protein in panel A; genes associated with HPV16 E7 protein in panel B). Both axes plot $-\log_{10}$ values. For pathways above the blue line, $p < 0.05$ for both parameters; while for pathways above the red line, $p < 0.01$ for both parameters.

Supplementary Figure S2. HPV16 E6 and E7-associated genes in the Kyoto Encyclopedia of Genes and Genomes cancer pathways.

The red boxes show HPV16 E6-associated (A) and HPV16 E7-associated (B) genes that are present in the KEGG cancer pathways.

Supplementary Figure S3. Correlations between levels of HPV16 oncoproteins and downstream effectors of the master regulators.

The heat maps show expression levels of each gene in the regulons of the master regulators (rows), plotted against levels of their associated virus protein (columns), arranged from lowest (left) to highest (right). Each column is derived from a single W12 clone. As each clone was analysed in triplicate, there are three columns for each level of E6 or E7 expression. Data for HPV16 E6 are in panel A, while data for HPV16 E7 are in panel B.

Supplementary Figure S4. Networks derived following inclusion or exclusion of known p53 target genes.

(A) Network derived from genes that were both E6- and p53-associated. (B) Network derived from genes that were E6-associated but not p53-associated.

Supplementary Figure S5. The transcriptional regulatory network in W12 cells inferred from gene expression changes following depletion of HPV16 early genes (sample set 2).

Supplementary Figure S6. Overlap between data from sample sets 1 and 2.

Venn diagram showing the numbers of genes correlated with HPV16 E6 or E7 protein levels in sample set 1 (top left and top right sets, respectively), as well as those for which expression was significantly altered following HPV16 early gene depletion using siRNA in sample set 2 (bottom set).

Supplementary Figure S7. Data validation for the master regulator PA2G4 and the downstream effector gene ATL3.

(A) Correlations between gene expression levels determined by microarray (x-axis) and qRT-PCR (y-axis). (B) Representative Western blot used to quantify relative levels of PA2G4 and ATL3 proteins. All data were referenced to levels of the respective protein in the independent W12 clone E3. (C) Correlations between gene expression levels determined by qRT-PCR (x-axis) and those determined by quantitative western blotting (y-axis).

Supplementary Figure S8. Depletion of PA2G4.

Levels of PA2G4 mRNA following treatment of cervical high-grade SIL (W12 clone B) or SCC (CaSki and SiHa) cells with PA2G4 siRNAs or non-targetting control siRNAs. Expression levels were determined by qRT-PCR and referenced to those in NTC-treated cells. (B) Representative Western blot used to quantify relative levels of PA2G4 protein following treatment of cells treated with siPA2G4 or siNTC over seven days. (C) Quantification of relative PA2G4 protein levels. All data were referenced to PA2G4 protein levels in the independent W12 clone E3.

Supplementary Table S1. Genes showing significant concentration-dependent associations with levels of HPV16 E6 protein in the W12 clones. In the Table, the columns show the following: A, Illumina probe identifier; B, log fold change across the sample sets; C average expression levels across the sample sets; D, t-statistic. E, p-value for association with virus protein level; F, adjusted p-value; G, B-statistic. There are 1,213 genes showing significant concentration-dependent associations with HPV16 E6.

Supplementary Table S2. Genes showing significant concentration-dependent associations with levels of HPV16 E7 protein in the W12 clones. In the Table, the columns show the following: A, Illumina probe identifier; B, log fold change across the sample sets; C average expression levels across the sample sets; D, t-statistic. E, p-value for association with virus protein level; F, adjusted p-value; G, B-statistic. There are 1,527 genes showing significant concentration-dependent associations with HPV16 E7.

Supplementary Table S3. Genes showing significant concentration-dependent associations with levels of HPV16 E6 protein in the W12 clones, after exclusion of known p53 targets. In the Table, the columns show the following: A, Illumina probe identifier; B, log fold change across the sample sets; C average expression levels across the sample sets; D, t-statistic. E, p-value for association with virus protein level; F, adjusted p-value; G, B-statistic. There are 1,069 genes showing significant concentration-dependent associations with HPV16 E6 after exclusion of known p53 targets.

Supplementary Table S4. Genes showing significant concentration-dependent associations with levels of HPV16 E7 protein in the W12 clones, after exclusion of known p53 targets. In the Table, the columns show the following: A, Illumina probe identifier; B, log fold change across the sample sets; C average expression levels across the sample sets; D, t-statistic. E, p-value for association with virus protein level; F, adjusted p-value; G, B-statistic. There are 1,379 genes showing significant concentration-dependent associations with HPV16 E7 after exclusion of known p53 targets.

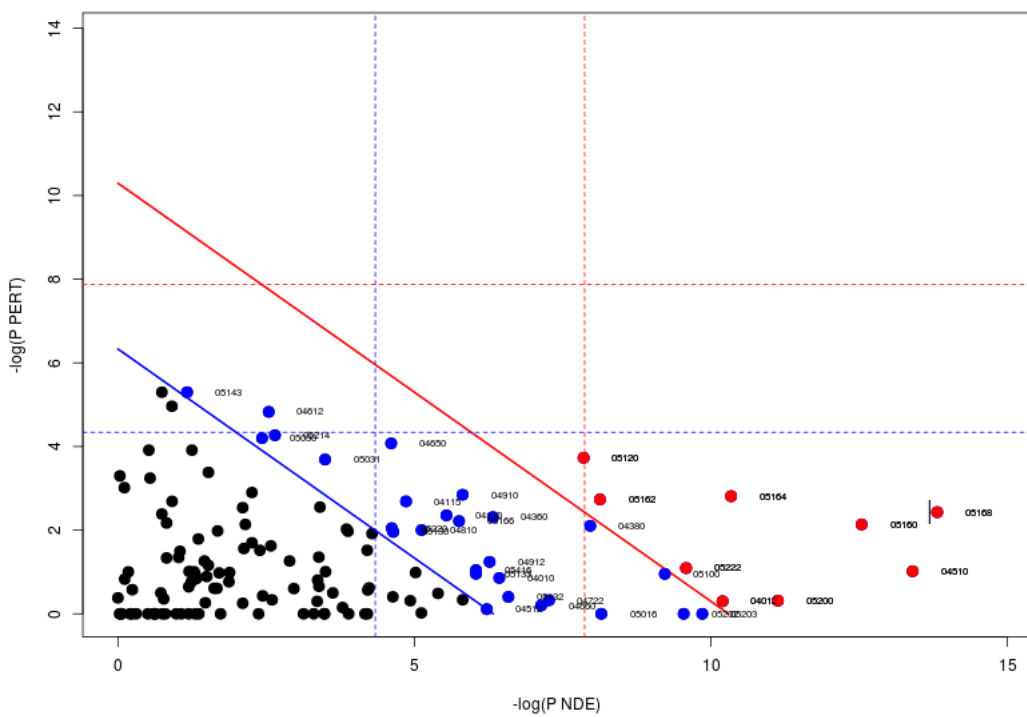
Supplementary Table S5. List of genes that were significantly differentially expressed following HPV16 early gene depletion in W12 cells. The list of 5,535 genes was derived from sample set 2. In the Table, the columns show the following: A, Illumina probe identifier; B, gene symbol; C, evidence of association with levels of HPV16 E6 protein in the W12 clones (sample set 1) (true or false); D, evidence of association with levels of HPV16 E7 protein in the W12 clones (sample set 1) (true or false). In total, 937 of the 5,535 genes derived from sample set 2 (16.9%) also showed a concentration dependent relationship with E7 and/or E6 protein in the W12 clones.

Supplementary Table S6. Primers and conditions used for qRT-PCR.

Supplementary Table S7. Antibodies used for western blotting.

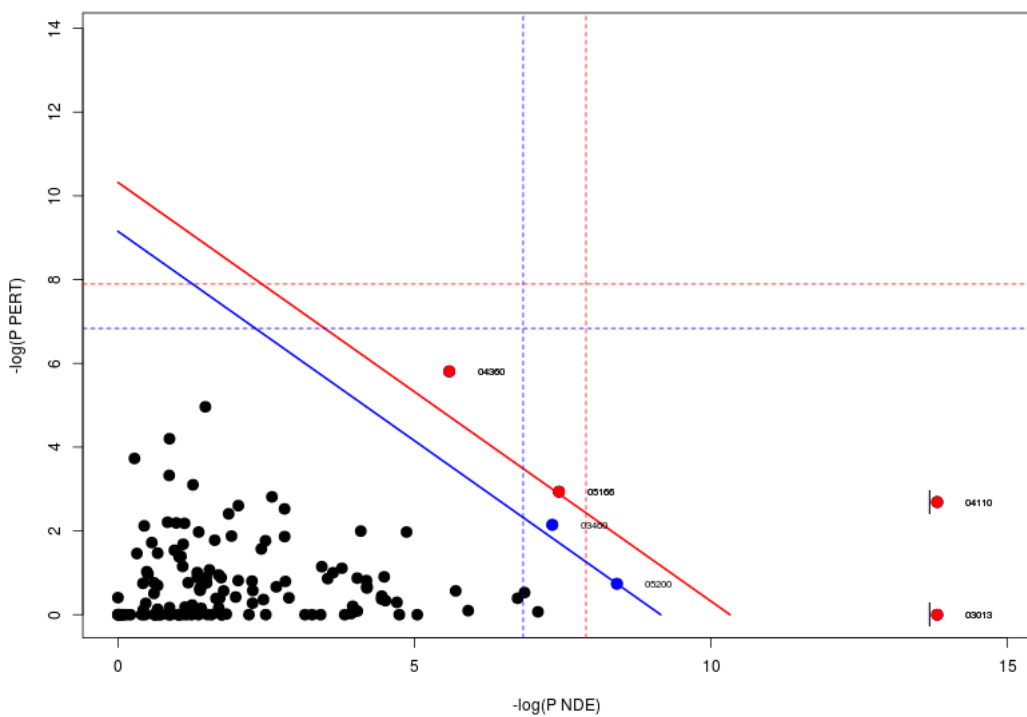
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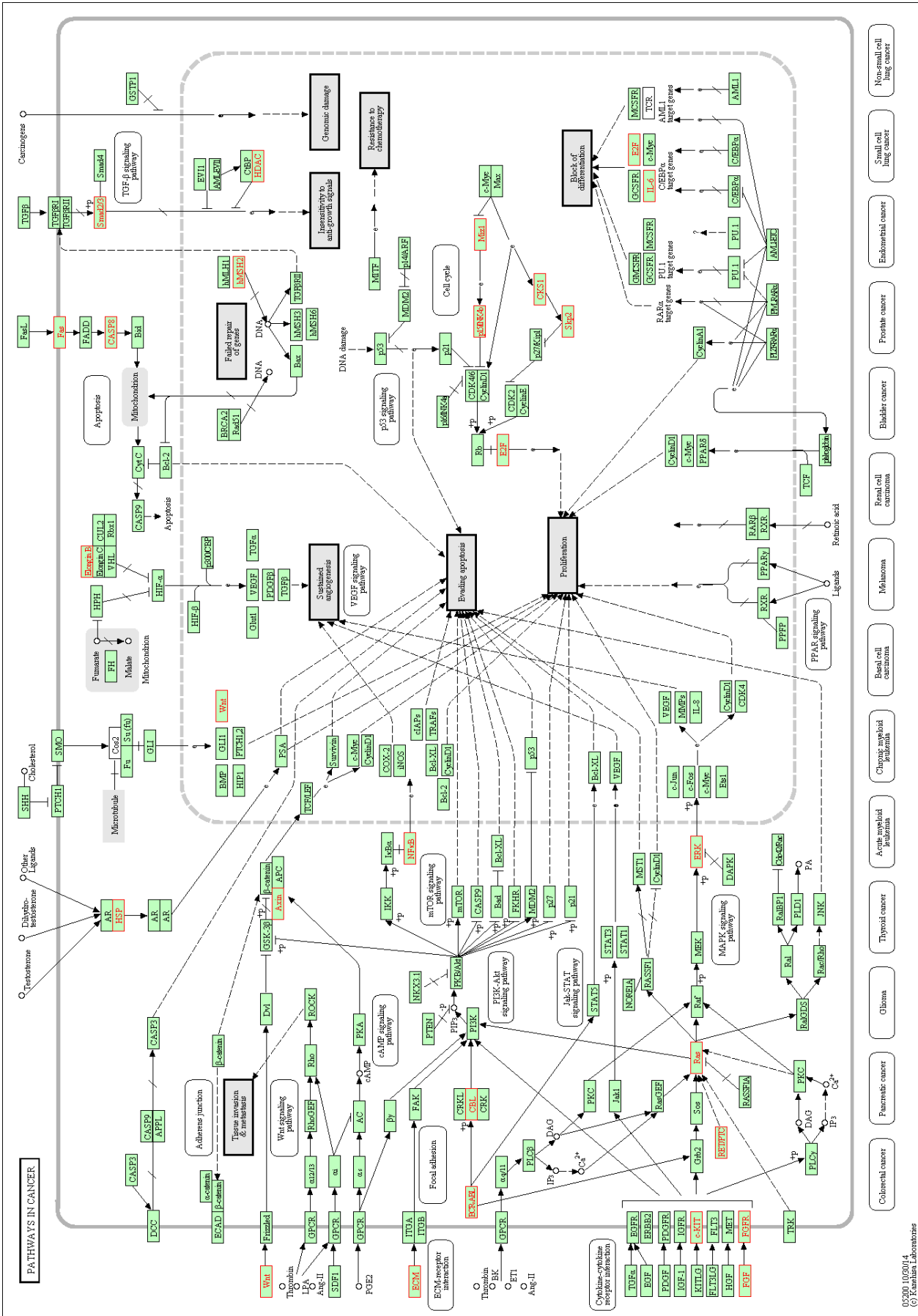
SPIA two-way evidence plot



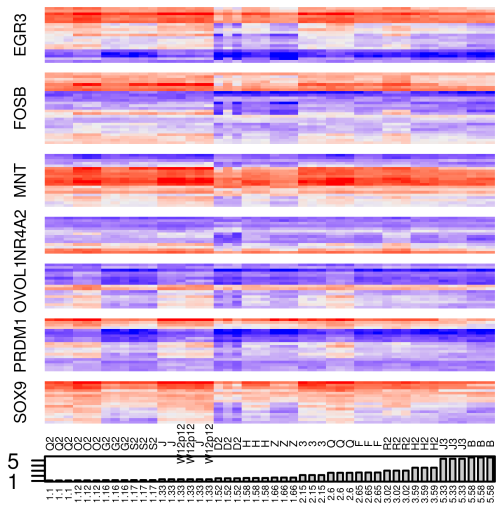
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SPIA two-way evidence plot

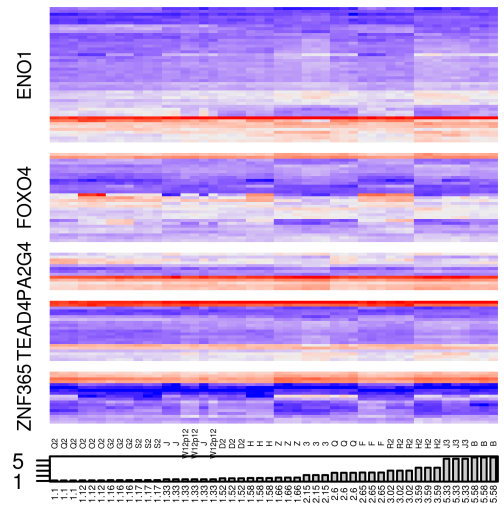




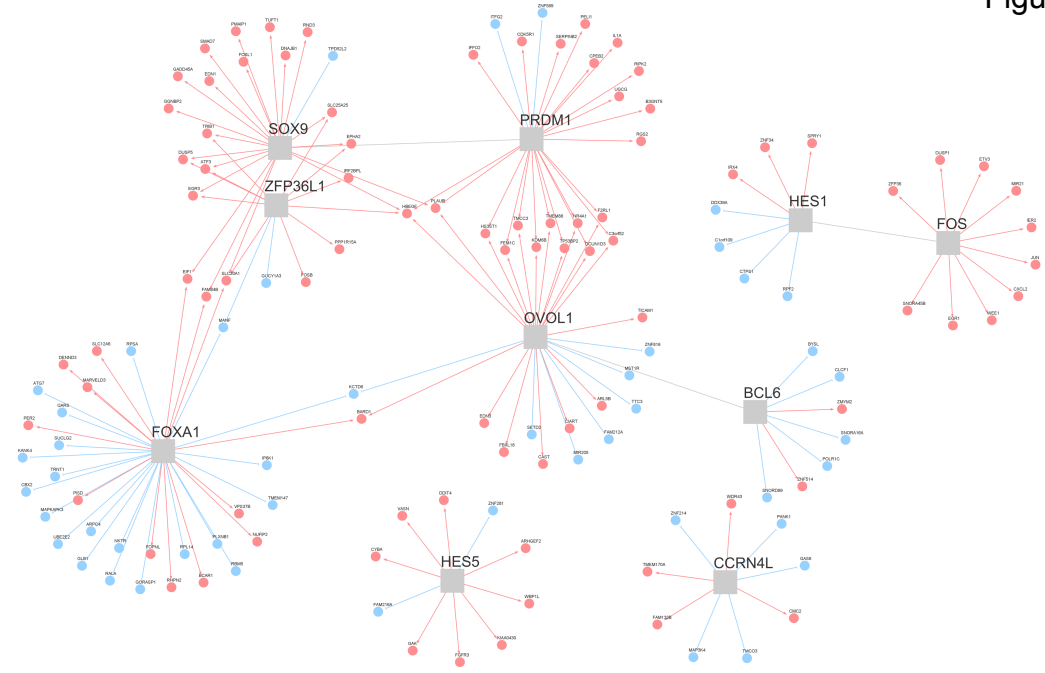
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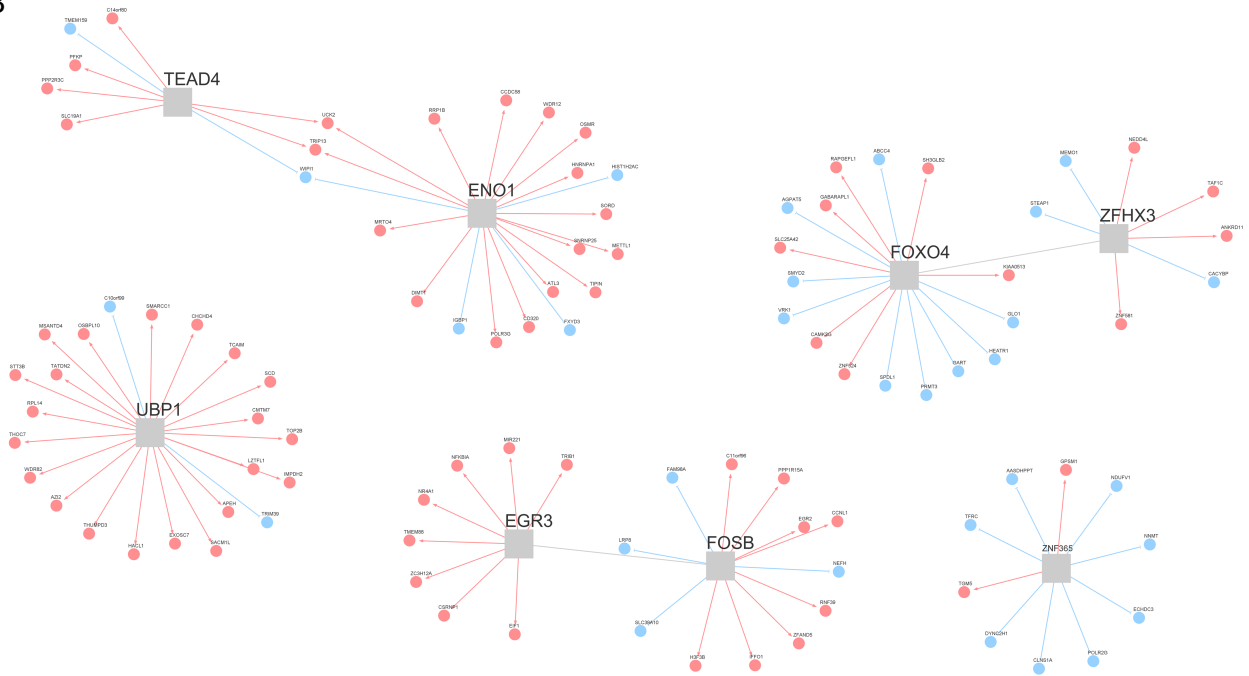
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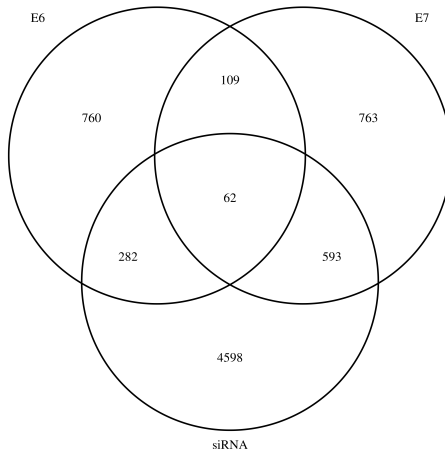


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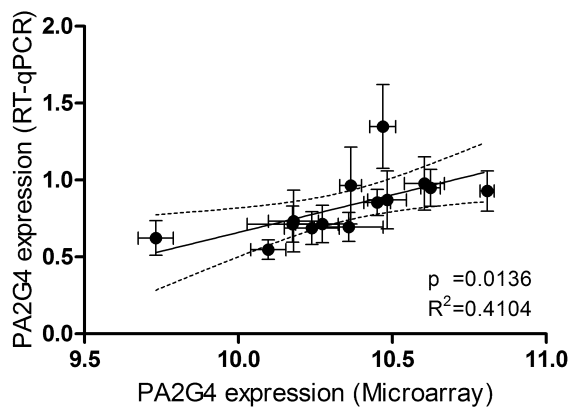
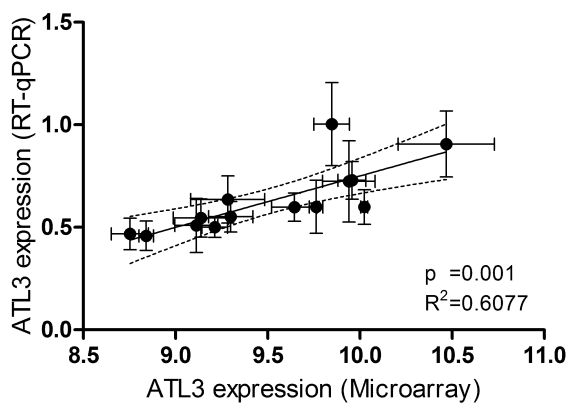


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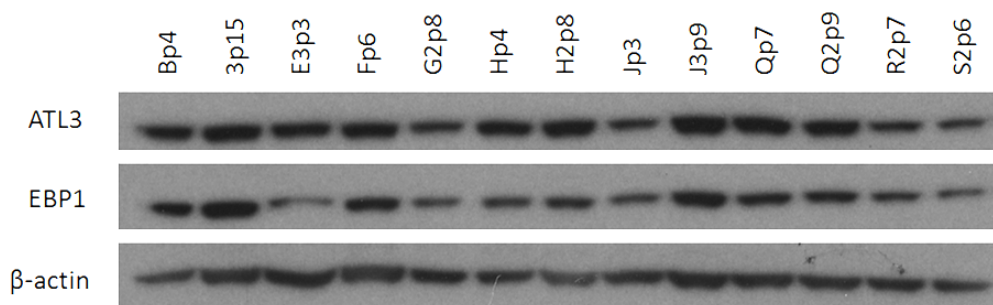




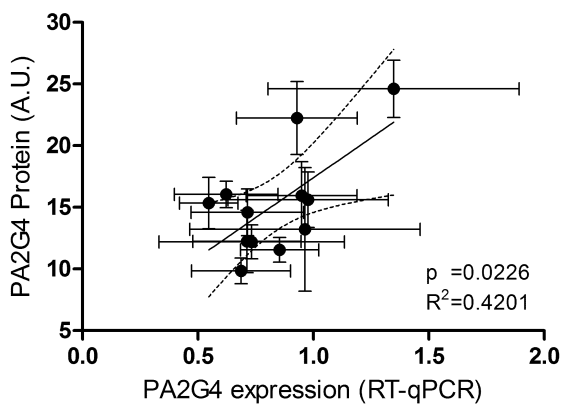
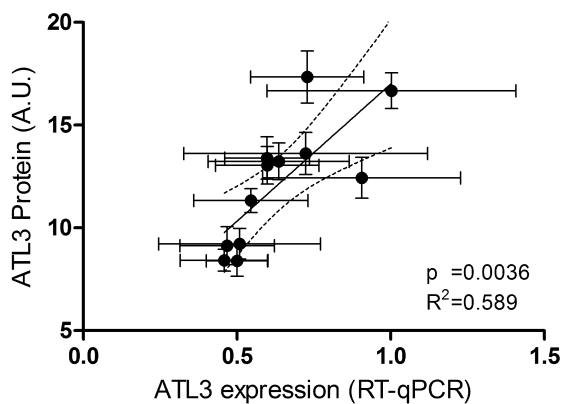
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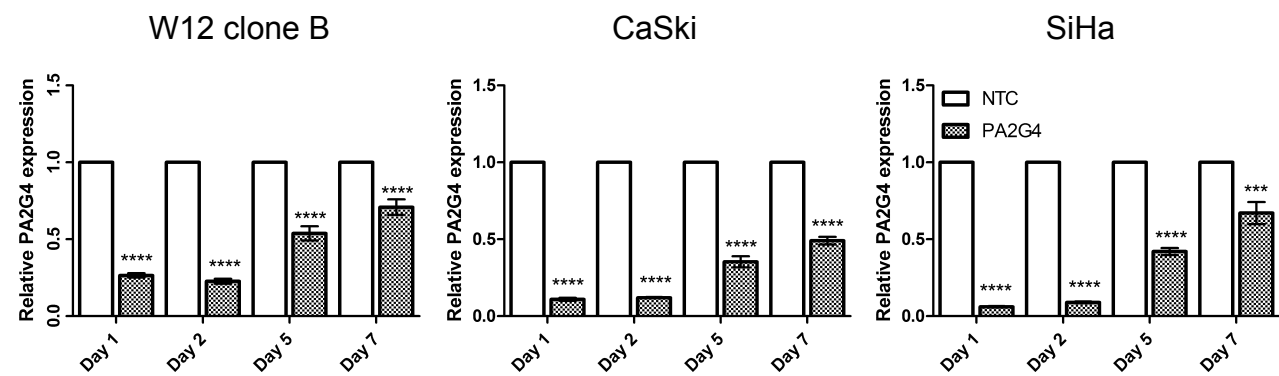
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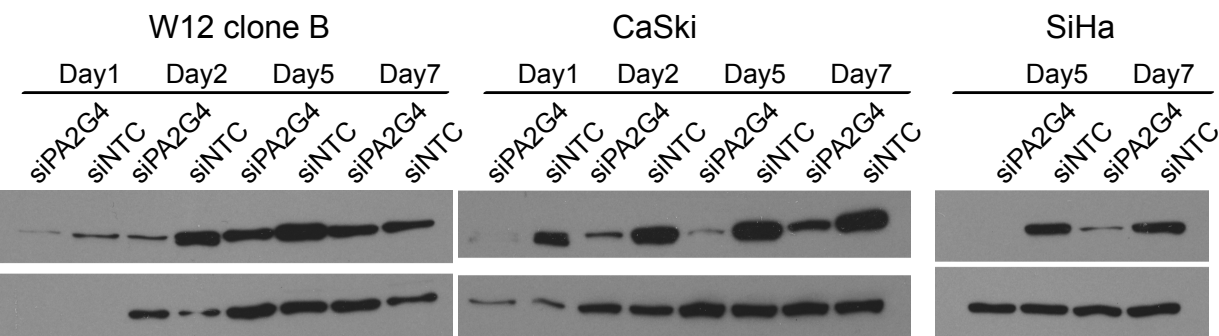
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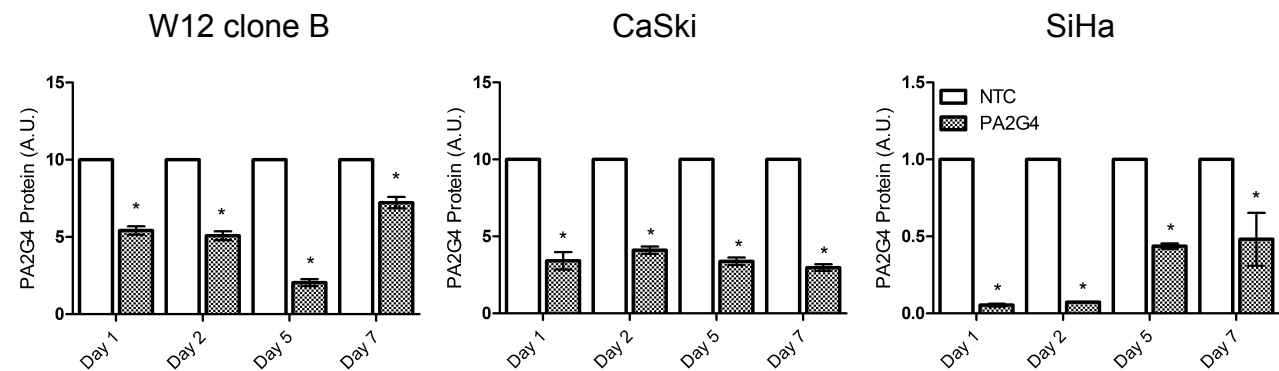
A



B



C



Supplementary Table S1. Genes showing significant concentration-dependent associations with levels of HPV16 E6 protein in the W12 clones.

	logFC	AveExpr	t	P.Value	adj.P.Val	B
ILMN_1768176	-1.03382	9.695149	-8.95765	5.63E-12	1.94E-07	16.72703
ILMN_2115125	-0.94747	10.6213	-5.82064	4.14E-07	0.000188	6.323643
ILMN_1762899	-0.87966	11.10572	-6.27406	8.15E-08	6.25E-05	7.840583
ILMN_1718387	0.807518	7.067937	4.841749	1.28E-05	0.001949	3.122794
ILMN_1743199	-0.73382	8.006812	-5.5079	1.26E-06	0.000411	5.286692
ILMN_2096372	0.704396	6.843431	5.770864	4.94E-07	0.000216	6.157963
ILMN_1751607	-0.69388	8.653658	-4.02154	0.000195	0.012565	0.596512
ILMN_1693192	0.668337	10.53244	3.590024	0.000752	0.030491	-0.6419
ILMN_2188264	-0.63646	9.77076	-5.06548	5.91E-06	0.001252	3.841039
ILMN_1795930	-0.60207	8.793098	-4.89311	1.07E-05	0.001805	3.286776
ILMN_1693338	0.59907	8.093769	4.561861	3.30E-05	0.003717	2.239748
ILMN_1656501	-0.58408	10.91612	-4.63926	2.54E-05	0.003133	2.482046
ILMN_1709348	0.573429	6.659982	6.073941	1.67E-07	0.000101	7.16964
ILMN_1801307	-0.56904	7.782393	-6.39114	5.35E-08	4.99E-05	8.233819
ILMN_1682775	-0.55521	9.613886	-6.35117	6.18E-08	5.32E-05	8.099527
ILMN_1705750	0.547466	9.719861	4.659485	2.38E-05	0.003001	2.545607
ILMN_2374865	-0.54036	8.426554	-4.89263	1.07E-05	0.001805	3.28525
ILMN_1687768	-0.51624	10.72609	-4.09663	0.000153	0.010842	0.819255
ILMN_2121408	-0.51066	8.642341	-4.06981	0.000167	0.01144	0.739487
ILMN_1682717	-0.50735	10.41325	-7.48282	1.05E-09	6.22E-06	11.89755
ILMN_2067656	-0.5027	11.18529	-3.69888	0.000538	0.02452	-0.33665
ILMN_1796316	0.50097	6.699623	3.60312	0.000722	0.029718	-0.60545
ILMN_1725338	-0.48667	7.689723	-5.26734	2.93E-06	0.000776	4.496938
ILMN_2166457	-0.47841	7.79733	-4.92266	9.68E-06	0.001702	3.381389
ILMN_1810835	-0.47277	11.7065	-3.40852	0.001298	0.042085	-1.13906
ILMN_1718977	-0.47091	8.552016	-6.83648	1.07E-08	1.95E-05	9.73125
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ILMN_1759513	-0.44274	10.91744	-5.0875	5.48E-06	0.001202	3.912239
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ILMN_3310326	-0.43645	8.573468	-6.20962	1.03E-07	7.38E-05	7.624351
ILMN_1682636	-0.41617	7.259545	-4.82506	1.35E-05	0.00201	3.069632
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ILMN_1756417	-0.41226	8.04264	-6.432	4.62E-08	4.55E-05	8.371157
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ILMN_1656057	-0.26939	10.21881	-6.06561	1.72E-07	0.000102	7.14174
ILMN_1710495	-0.269	7.138977	-3.96284	0.000235	0.014201	0.42378
ILMN_1683129	-0.26888	8.083049	-4.57886	3.12E-05	0.003609	2.292819
ILMN_1734929	-0.26869	9.387229	-4.28463	8.30E-05	0.006963	1.385333
ILMN_2327947	-0.26672	6.516779	-4.68176	2.20E-05	0.002867	2.615739
ILMN_1721218	-0.26379	13.55456	-5.03088	6.66E-06	0.001345	3.729314
ILMN_1740466	-0.26359	8.466511	-3.6012	0.000727	0.029821	-0.61081
ILMN_1798826	0.263082	7.326562	5.572684	9.98E-07	0.000355	5.50065
ILMN_2307025	0.262328	7.798741	5.889069	3.24E-07	0.000151	6.551741
ILMN_1675640	-0.26063	7.865586	-3.61071	0.000706	0.029332	-0.58429
ILMN_1776936	0.259812	6.817782	3.38528	0.00139	0.043808	-1.20161
ILMN_1778360	0.259386	10.85475	4.363111	6.41E-05	0.005894	1.624952
ILMN_1814215	0.258621	7.380656	3.748624	0.000461	0.022006	-0.19548
ILMN_1756469	-0.25781	6.617041	-4.71178	1.99E-05	0.002726	2.710435
ILMN_1741159	-0.25759	6.520576	-4.63418	2.59E-05	0.003165	2.466102
ILMN_1672094	0.25669	6.754803	5.644283	7.75E-07	0.0003	5.737665
ILMN_2108735	0.256349	6.308979	3.902732	0.000285	0.015983	0.24822
ILMN_1708934	-0.25553	11.66936	-3.83767	0.000349	0.018505	0.059764
ILMN_2117171	-0.25546	10.7705	-6.36585	5.86E-08	5.32E-05	8.148862
ILMN_1765860	-0.25538	6.948261	-4.13747	0.000134	0.009865	0.941244
ILMN_1794595	-0.25387	7.065567	-5.19469	3.77E-06	0.000903	4.260095
ILMN_1652580	0.253064	7.794553	8.102251	1.15E-10	1.32E-06	13.95083
ILMN_1769839	0.25285	5.604133	6.128481	1.38E-07	9.11E-05	7.352318
ILMN_1707350	0.251547	7.336674	4.707798	2.02E-05	0.002728	2.697848
ILMN_1778561	-0.25082	9.533894	-4.57055	3.21E-05	0.003674	2.266872
ILMN_2339955	-0.25069	7.058355	-3.59767	0.000734	0.030072	-0.62061
ILMN_1703180	-0.25033	7.621498	-3.922	0.000268	0.015534	0.304351
ILMN_1703891	-0.24998	8.40525	-7.06577	4.70E-09	1.50E-05	10.50148
ILMN_1767365	-0.24925	7.134126	-5.31627	2.46E-06	0.000708	4.656915
ILMN_1745471	-0.24804	9.161866	-3.3681	0.001462	0.044858	-1.24766
ILMN_1708130	-0.24728	8.245502	-5.02869	6.71E-06	0.001346	3.722271
ILMN_2189668	-0.24719	7.489654	-3.68932	0.000555	0.024798	-0.36367
ILMN_1716988	-0.24717	8.836059	-3.36154	0.001491	0.045292	-1.26521
ILMN_1671895	0.245309	6.998514	6.332541	6.61E-08	5.56E-05	8.036961
ILMN_3268403	0.244386	5.923422	8.654311	1.63E-11	2.81E-07	15.75172
ILMN_2086077	-0.2431	8.675336	-3.43538	0.001198	0.039828	-1.06647
ILMN_2326712	-0.24246	7.108977	-4.47627	4.40E-05	0.004541	1.973628
ILMN_1797236	0.241859	6.569355	4.725654	1.90E-05	0.002638	2.754254
ILMN_1742166	0.240845	8.381935	5.346771	2.21E-06	0.000652	4.756829
ILMN_1669888	-0.23976	9.58316	-4.08131	0.000161	0.011128	0.773665
ILMN_2413158	0.239509	6.450866	3.452644	0.001138	0.038458	-1.01961
ILMN_1716446	-0.23767	7.655153	-4.80927	1.43E-05	0.002095	3.019381
ILMN_1694075	-0.23588	9.968446	-3.66899	0.00059	0.025993	-0.42097
ILMN_1675616	-0.23565	6.875555	-3.89156	0.000295	0.016344	0.215735
ILMN_2130411	0.233589	9.58704	4.65257	2.43E-05	0.003061	2.523861
ILMN_1765876	-0.23238	6.010988	-4.58813	3.02E-05	0.003534	2.321806

ILMN_1706505	0.230522	7.822645	3.455239	0.001129	0.038349	-1.01256
ILMN_1744239	-0.23034	7.234171	-6.78063	1.31E-08	2.27E-05	9.543456
ILMN_3310840	-0.22884	7.508302	-3.93366	0.000258	0.015209	0.338395
ILMN_2048633	-0.2287	6.738295	-5.3857	1.93E-06	0.000582	4.88454
ILMN_1800225	0.228522	7.195323	3.5409	0.000873	0.033133	-0.77795
ILMN_1815079	-0.22815	7.332429	-3.51247	0.000951	0.034911	-0.8562
ILMN_1675992	-0.22797	7.571294	-5.50029	1.29E-06	0.000412	5.261591
ILMN_2391264	0.227488	9.11132	3.701895	0.000533	0.024369	-0.32812
ILMN_2185563	-0.22723	8.221271	-6.61973	2.35E-08	3.11E-05	9.002351
ILMN_2412922	-0.22698	6.88533	-5.93931	2.71E-07	0.000137	6.719428
ILMN_1674620	-0.22676	8.612633	-4.50185	4.04E-05	0.004285	2.052949
ILMN_1778319	0.225956	9.088586	3.50222	0.000981	0.035476	-0.8843
ILMN_1813489	0.225848	7.79926	6.313999	7.06E-08	5.66E-05	7.97469
ILMN_2229379	-0.22567	6.13363	-3.56712	0.000806	0.03191	-0.70546
ILMN_1758213	0.225133	7.772904	5.891516	3.21E-07	0.000151	6.559904
ILMN_1759184	0.22512	9.801106	4.806981	1.44E-05	0.002102	3.012107
ILMN_1736729	-0.22441	6.390611	-3.36988	0.001455	0.044742	-1.2429
ILMN_1763091	-0.22434	9.192508	-4.57329	3.18E-05	0.003665	2.275425
ILMN_1701837	-0.22393	8.208807	-6.43845	4.51E-08	4.55E-05	8.392816
ILMN_2285404	0.223459	9.479853	3.969103	0.000231	0.01406	0.442146
ILMN_3247848	0.223135	6.89447	4.776816	1.60E-05	0.002291	2.91629
ILMN_1786429	-0.22311	8.409264	-3.50608	0.000969	0.035251	-0.87372
ILMN_1720373	0.222294	11.35699	4.863951	1.18E-05	0.001881	3.193611
ILMN_1683127	-0.22173	9.525091	-3.60572	0.000717	0.029624	-0.5982
ILMN_2103397	0.221546	6.499243	5.637934	7.92E-07	0.000303	5.716625
ILMN_1805064	-0.2211	7.068874	-3.54303	0.000867	0.033102	-0.77207
ILMN_2191568	0.221059	8.435229	5.503112	1.28E-06	0.000411	5.270902
ILMN_1738759	0.220462	8.423502	7.643064	5.90E-10	5.09E-06	12.43144
ILMN_1719204	0.220104	9.238663	6.026292	1.98E-07	0.000112	7.010176
ILMN_1717765	-0.21715	7.339418	-3.44676	0.001158	0.03905	-1.0356
ILMN_1800573	0.215836	11.20054	4.014893	0.000199	0.012768	0.576886
ILMN_1669113	0.215551	7.508813	5.291409	2.69E-06	0.000748	4.575597
ILMN_1705302	0.2149	6.800363	3.743804	0.000468	0.022277	-0.2092
ILMN_3223181	0.214885	8.419154	4.188107	0.000114	0.008774	1.093256
ILMN_1762275	0.214858	7.5074	5.87017	3.47E-07	0.000159	6.488707
ILMN_1738552	-0.21463	8.427499	-4.59465	2.96E-05	0.003492	2.342214
ILMN_1844611	0.214577	6.621864	6.353854	6.12E-08	5.32E-05	8.108555
ILMN_1680453	0.214413	7.924674	4.24876	9.34E-05	0.007589	1.276446
ILMN_2168520	-0.21417	7.828221	-3.7321	0.000486	0.022942	-0.24248
ILMN_2052208	-0.2141	10.47724	-3.39234	0.001361	0.043138	-1.18262
ILMN_1702609	-0.21403	8.422294	-4.40067	5.66E-05	0.005449	1.740287
ILMN_1686555	0.213184	6.820999	4.425712	5.21E-05	0.0051	1.8174
ILMN_1717639	-0.21317	9.87896	-3.58413	0.000765	0.030898	-0.65828
ILMN_2365595	-0.21305	9.784162	-5.19802	3.73E-06	0.000899	4.270947
ILMN_1751161	0.212183	10.99825	3.339735	0.00159	0.047297	-1.32341
ILMN_1701331	0.211983	9.805817	7.313114	1.93E-09	8.24E-06	11.33046
ILMN_2383484	0.21142	8.386668	5.809561	4.30E-07	0.000193	6.286748
ILMN_2414165	-0.21125	6.673397	-3.40719	0.001303	0.042165	-1.14266
ILMN_1722634	0.211185	10.63075	4.449875	4.80E-05	0.004816	1.891981
ILMN_1668629	0.211152	9.24065	3.597223	0.000735	0.030077	-0.62187
ILMN_2396982	0.21085	9.162116	6.050179	1.82E-07	0.000106	7.090099
ILMN_1691731	-0.21033	6.980087	-3.57931	0.000777	0.031208	-0.67165
ILMN_1724181	-0.21008	6.919197	-4.97365	8.12E-06	0.001544	3.545032
ILMN_1799890	0.209114	8.428338	4.974736	8.09E-06	0.001544	3.548524

ILMN_1740429	0.208858	12.17058	3.860684	0.000325	0.017647	0.126232
ILMN_1808713	0.208271	5.671269	4.202028	0.000109	0.008524	1.135196
ILMN_2307450	0.208056	8.411141	3.997351	0.000211	0.013255	0.525175
ILMN_2178855	0.206915	7.786853	5.127087	4.77E-06	0.001087	4.040485
ILMN_1662640	0.206595	9.417851	3.974895	0.000226	0.01391	0.459146
ILMN_1700109	0.205742	9.491388	4.03934	0.000184	0.012201	0.649131
ILMN_1679093	0.205328	9.146616	3.763036	0.000441	0.021449	-0.15439
ILMN_1672004	-0.20521	9.199863	-3.83209	0.000356	0.018691	0.043664
ILMN_1808777	0.205162	8.520059	4.503022	4.02E-05	0.004281	2.056601
ILMN_1677919	-0.20408	8.942454	-5.13596	4.63E-06	0.001068	4.069263
ILMN_1772981	0.204013	10.56743	5.902338	3.09E-07	0.00015	6.596011
ILMN_1653358	-0.20323	6.534286	-3.3976	0.00134	0.042747	-1.1685
ILMN_2074748	0.202406	6.155482	5.343068	2.24E-06	0.000655	4.744693
ILMN_1754842	0.20212	7.573756	4.868569	1.17E-05	0.001878	3.208355
ILMN_1794190	-0.20197	6.986232	-4.46534	4.56E-05	0.00468	1.939801
ILMN_1752953	0.201267	8.974141	5.614121	8.62E-07	0.000323	5.637752
ILMN_1690105	-0.20106	8.328354	-3.33759	0.0016	0.047389	-1.32912
ILMN_1775962	-0.20082	7.38938	-4.45582	4.71E-05	0.00479	1.910353
ILMN_1684964	0.200763	7.346486	4.236896	9.71E-05	0.007856	1.24052
ILMN_2381197	-0.20059	7.79262	-4.9057	1.03E-05	0.001773	3.327072
ILMN_1703330	-0.20049	8.192523	-3.91776	0.000271	0.015534	0.29198
ILMN_1736575	0.200006	8.552527	4.937363	9.20E-06	0.001652	3.428517
ILMN_1770537	0.199743	6.388881	5.586075	9.52E-07	0.000342	5.544937
ILMN_1755909	0.199555	9.400336	6.416282	4.89E-08	4.68E-05	8.318317
ILMN_2285817	-0.19951	9.961391	-3.83166	0.000356	0.018691	0.042439
ILMN_1683635	-0.19937	7.995629	-3.63033	0.000665	0.028015	-0.52947
ILMN_3235325	0.199317	6.910267	3.529837	0.000902	0.03396	-0.80844
ILMN_1693421	0.1992	9.359146	6.459711	4.18E-08	4.37E-05	8.464292
ILMN_2301083	0.19913	10.92932	4.834955	1.31E-05	0.001977	3.101144
ILMN_1796074	-0.19867	8.79714	-3.79664	0.000397	0.020014	-0.05824
ILMN_2120022	-0.19867	7.027162	-4.02655	0.000192	0.012526	0.611297
ILMN_1697218	0.198196	8.347213	5.058721	6.05E-06	0.001272	3.819194
ILMN_1676515	0.197903	7.899452	3.692502	0.000549	0.024798	-0.35467
ILMN_2357438	0.19747	9.335569	4.379106	6.08E-05	0.00571	1.674016
ILMN_1658425	0.197032	8.352206	5.248425	3.13E-06	0.000798	4.435204
ILMN_1674034	-0.19643	8.200939	-4.31745	7.45E-05	0.006553	1.485324
ILMN_1675709	0.195906	7.207505	6.653702	2.08E-08	2.87E-05	9.116617
ILMN_3233388	-0.19557	8.969333	-5.22408	3.40E-06	0.000844	4.355815
ILMN_2061732	-0.19519	9.634742	-4.02326	0.000194	0.012553	0.601599
ILMN_3247018	-0.19483	8.265002	-5.99347	2.23E-07	0.000122	6.90042
ILMN_1704793	0.194785	8.555961	4.669246	2.30E-05	0.002936	2.576319
ILMN_1676631	0.194407	6.992579	3.463795	0.0011	0.037789	-0.98928
ILMN_2208777	-0.19411	7.885326	-3.53943	0.000877	0.033207	-0.78199
ILMN_2173611	0.193725	12.17228	3.807335	0.000384	0.019694	-0.02755
ILMN_1675612	0.193238	9.179098	5.125719	4.79E-06	0.001087	4.03605
ILMN_1738681	0.19294	10.25065	6.114714	1.44E-07	9.22E-05	7.306192
ILMN_1703487	-0.19257	8.843029	-4.56564	3.26E-05	0.003717	2.251535
ILMN_2392370	0.192392	6.342761	3.595252	0.00074	0.030187	-0.62736
ILMN_1691436	-0.19208	9.590865	-4.60436	2.86E-05	0.003415	2.372605
ILMN_1764571	0.191231	10.18131	3.615479	0.000696	0.028963	-0.57098
ILMN_1656933	0.191167	6.331613	4.477424	4.38E-05	0.004538	1.977217
ILMN_1669479	0.191121	7.352698	3.574264	0.000789	0.031452	-0.68566
ILMN_1665831	0.189996	8.995949	4.524969	3.74E-05	0.004072	2.124809
ILMN_2183409	0.18901	8.259481	4.319412	7.40E-05	0.006528	1.491297

ILMN_2170814	-0.1889	6.727254	-3.31166	0.001726	0.049228	-1.39799
ILMN_1671005	-0.1888	8.024776	-5.07809	5.66E-06	0.001219	3.881787
ILMN_1656670	-0.18857	6.613323	-5.73256	5.66E-07	0.000235	6.030603
ILMN_1715401	0.188487	8.08212	3.472876	0.001071	0.03739	-0.96453
ILMN_1710752	-0.18813	8.511522	-4.88736	1.09E-05	0.001811	3.268396
ILMN_1789642	0.188095	6.892939	5.311884	2.50E-06	0.000713	4.64257
ILMN_1811195	0.188049	6.387587	4.621262	2.70E-05	0.003271	2.425565
ILMN_1694111	0.1879	8.130744	5.339762	2.27E-06	0.000657	4.733859
ILMN_1810467	0.187843	10.56074	4.848859	1.25E-05	0.001927	3.145461
ILMN_1815306	0.187757	7.293171	5.737409	5.56E-07	0.000234	6.046731
ILMN_1913510	0.187665	6.677522	4.039633	0.000184	0.012201	0.65
ILMN_1679401	0.187491	7.031703	4.375481	6.15E-05	0.005732	1.662888
ILMN_2204467	0.187172	5.783277	3.472004	0.001074	0.037399	-0.96691
ILMN_1685540	0.187144	7.832534	4.866844	1.17E-05	0.00188	3.202847
ILMN_1696585	0.18682	8.641957	3.649135	0.000627	0.027177	-0.47678
ILMN_1684873	-0.18681	6.878608	-3.71091	0.000519	0.023964	-0.3026
ILMN_1704418	-0.18673	7.854408	-3.60203	0.000725	0.029781	-0.60849
ILMN_2408566	-0.1865	6.390289	-3.49429	0.001004	0.035992	-0.90602
ILMN_1706342	0.186336	7.352996	4.104384	0.000149	0.010661	0.842382
ILMN_2048478	0.186003	6.143759	4.949481	8.83E-06	0.001614	3.467399
ILMN_1658989	0.185825	6.267611	5.972922	2.40E-07	0.000125	6.831728
ILMN_2411897	-0.18571	7.291889	-3.91383	0.000275	0.015619	0.280544
ILMN_1746494	-0.18567	7.881911	-4.30253	7.83E-05	0.006729	1.439812
ILMN_1672504	0.185439	9.839358	4.481865	4.32E-05	0.004511	1.990976
ILMN_1731720	0.18528	7.562784	5.004482	7.30E-06	0.001422	3.644236
ILMN_1671191	0.185117	10.86306	4.712733	1.98E-05	0.002726	2.713431
ILMN_1907834	-0.18486	8.321906	-3.70227	0.000533	0.024369	-0.32706
ILMN_1715476	0.184802	9.924509	4.832868	1.32E-05	0.001983	3.094494
ILMN_2045994	0.184523	8.174052	5.06525	5.91E-06	0.001252	3.840292
ILMN_1676026	0.183751	8.684089	4.929238	9.46E-06	0.001673	3.402464
ILMN_2367191	0.183402	9.505748	4.685883	2.17E-05	0.002838	2.628721
ILMN_2173294	-0.18334	6.696235	-4.37644	6.13E-05	0.005729	1.665827
ILMN_1672606	-0.18324	6.181561	-3.38014	0.001411	0.044156	-1.21541
ILMN_2366041	0.183227	7.879147	4.769074	1.64E-05	0.002343	2.891731
ILMN_1701731	0.183105	9.033921	4.410899	5.47E-05	0.005297	1.771758
ILMN_1773154	-0.18285	11.15561	-3.72109	0.000503	0.023418	-0.27374
ILMN_1804822	0.182836	8.721351	3.770641	0.000431	0.021134	-0.13267
ILMN_1762284	0.182677	5.861403	6.463156	4.13E-08	4.37E-05	8.475871
ILMN_1692790	-0.18232	8.579602	-5.20682	3.61E-06	0.000884	4.299579
ILMN_1759175	-0.18216	6.883299	-5.73779	5.56E-07	0.000234	6.047989
ILMN_1699570	0.181596	9.942182	6.074689	1.67E-07	0.000101	7.172143
ILMN_2363273	0.181107	7.012101	4.304059	7.79E-05	0.006712	1.444479
ILMN_2405680	-0.18109	7.10555	-3.62337	0.000679	0.028507	-0.54893
ILMN_2372639	-0.18043	8.914962	-3.65524	0.000616	0.026807	-0.45962
ILMN_3297880	0.179973	8.630585	4.112943	0.000145	0.010435	0.86792
ILMN_1763605	0.17932	6.9534	6.890572	8.84E-09	1.76E-05	9.913057
ILMN_1751886	-0.17897	6.981708	-3.36696	0.001467	0.044915	-1.25072
ILMN_1807833	0.17857	8.049537	6.275391	8.11E-08	6.25E-05	7.845061
ILMN_1730906	-0.17854	7.259968	-3.65798	0.000611	0.02665	-0.45194
ILMN_2410772	-0.17831	8.289186	-4.96176	8.46E-06	0.001593	3.50684
ILMN_2375360	-0.17815	7.721413	-3.7974	0.000396	0.02001	-0.05608
ILMN_1790160	-0.1778	6.571739	-3.99516	0.000212	0.013299	0.51873
ILMN_1786976	0.17774	8.587619	5.100876	5.23E-06	0.001155	3.955546
ILMN_1664608	0.177569	8.508847	4.731513	1.86E-05	0.002598	2.772779

ILMN_2278653	0.177359	6.360961	5.055751	6.11E-06	0.001277	3.809601
ILMN_2186061	-0.17718	8.656237	-3.91689	0.000272	0.015534	0.28944
ILMN_1692100	0.176841	7.14129	4.398596	5.70E-05	0.005463	1.733899
ILMN_1801442	0.176668	6.102062	4.128634	0.000138	0.010087	0.914804
ILMN_1709044	0.176641	6.638544	4.415896	5.38E-05	0.005254	1.787148
ILMN_2132458	-0.17657	6.416718	-3.43916	0.001185	0.03959	-1.0562
ILMN_1680955	0.17627	9.580702	4.00823	0.000203	0.012943	0.557232
ILMN_1688154	0.175568	6.980757	3.562912	0.000816	0.032056	-0.71712
ILMN_2334350	0.175562	8.363866	4.077985	0.000163	0.011215	0.763771
ILMN_1679655	0.175524	8.886264	3.498224	0.000992	0.035741	-0.89525
ILMN_1666078	-0.17499	7.427113	-6.21834	9.96E-08	7.31E-05	7.653598
ILMN_2201347	0.174985	7.533335	4.972513	8.15E-06	0.001544	3.541379
ILMN_1745152	0.17485	8.553972	5.507517	1.26E-06	0.000411	5.285429
ILMN_2095704	0.174738	6.640483	3.422096	0.001246	0.040958	-1.10241
ILMN_1714730	0.174704	10.85933	4.168721	0.000121	0.009087	1.034957
ILMN_2358560	-0.17463	6.421356	-4.85494	1.22E-05	0.00192	3.164861
ILMN_1794643	0.174571	7.454543	5.560479	1.04E-06	0.000367	5.460306
ILMN_1771233	0.174517	8.313767	6.470291	4.02E-08	4.37E-05	8.499858
ILMN_1736112	-0.17435	7.564912	-4.94376	9.00E-06	0.001625	3.449048
ILMN_1697363	0.174309	8.470232	3.520852	0.000927	0.034592	-0.83316
ILMN_1677534	0.17419	8.546457	3.366014	0.001472	0.044915	-1.25325
ILMN_1709634	-0.17397	7.720106	-4.56121	3.31E-05	0.003717	2.237729
ILMN_1652677	-0.17391	8.342189	-3.3957	0.001348	0.042868	-1.17359
ILMN_1729225	0.173908	6.254295	3.477504	0.001056	0.036968	-0.9519
ILMN_1722811	0.173901	7.815689	3.311124	0.001729	0.049265	-1.3994
ILMN_1802615	0.173846	9.055348	3.418623	0.001259	0.041228	-1.1118
ILMN_3236061	0.173539	6.878669	4.314972	7.51E-05	0.006573	1.47775
ILMN_1654060	-0.17348	7.42097	-4.8139	1.41E-05	0.002071	3.03412
ILMN_2324056	0.173418	9.370995	3.687029	0.000558	0.024842	-0.37013
ILMN_1816342	-0.17299	7.914214	-3.83787	0.000349	0.018505	0.060324
ILMN_1806790	0.172863	7.722227	4.051389	0.000177	0.011939	0.684819
ILMN_2120340	0.172707	8.387977	5.267454	2.92E-06	0.000776	4.497322
ILMN_1660973	-0.17264	6.450034	-3.4078	0.0013	0.042135	-1.14101
ILMN_2211800	0.172642	9.738804	3.968175	0.000231	0.01406	0.439424
ILMN_2234343	0.172509	6.551563	3.954537	0.000242	0.014507	0.399445
ILMN_1791569	0.172497	7.56294	4.336619	6.99E-05	0.006264	1.543858
ILMN_2081398	0.17235	7.795199	5.985085	2.30E-07	0.000124	6.872378
ILMN_1744046	-0.17216	7.48544	-5.01294	7.09E-06	0.001405	3.671498
ILMN_1778374	-0.17183	10.17323	-4.90213	1.04E-05	0.001773	3.315629
ILMN_1735156	0.171803	6.574918	4.449823	4.81E-05	0.004816	1.891819
ILMN_2382829	0.171691	9.007533	6.150213	1.27E-07	8.77E-05	7.425149
ILMN_2105308	0.171574	10.92409	4.590978	2.99E-05	0.003524	2.330717
ILMN_2102693	-0.17083	8.757085	-3.56228	0.000818	0.032056	-0.71886
ILMN_2102960	-0.17065	8.064303	-4.38512	5.96E-05	0.005643	1.692474
ILMN_3197097	-0.17064	8.289104	-3.7302	0.000489	0.023046	-0.24787
ILMN_1790136	0.16997	8.813088	4.323791	7.30E-05	0.006451	1.504667
ILMN_1678454	-0.16991	9.454743	-5.16909	4.12E-06	0.000967	4.176853
ILMN_1745242	-0.16991	7.429544	-4.03891	0.000184	0.012201	0.647854
ILMN_1777721	0.169788	10.37908	5.607787	8.82E-07	0.000327	5.616784
ILMN_2232166	-0.16935	10.40064	-5.59252	9.31E-07	0.000338	5.566247
ILMN_1710000	-0.16934	6.626573	-6.54454	3.08E-08	3.79E-05	8.749499
ILMN_1812856	0.16923	8.03135	7.474006	1.08E-09	6.22E-06	11.86813
ILMN_1728057	-0.1692	6.695851	-5.07963	5.63E-06	0.001219	3.886771
ILMN_1732398	0.168896	5.518001	4.264737	8.86E-05	0.007286	1.324894

ILMN_1800451	-0.16878	8.17736	-5.15291	4.36E-06	0.001016	4.124275
ILMN_1719986	-0.16868	7.162071	-3.39488	0.001351	0.042894	-1.1758
ILMN_2359453	0.168482	10.66599	4.763603	1.67E-05	0.002377	2.874385
ILMN_1792679	-0.16835	7.392167	-3.46422	0.001099	0.037789	-0.98813
ILMN_1806106	0.168007	9.807794	3.83157	0.000356	0.018691	0.042166
ILMN_1784110	-0.16771	6.786576	-3.85135	0.000335	0.018029	0.099257
ILMN_1700541	0.167671	8.967071	3.439206	0.001184	0.03959	-1.05609
ILMN_2368713	0.167403	10.02075	4.563355	3.29E-05	0.003717	2.244411
ILMN_1707783	0.166958	11.66934	3.743032	0.00047	0.022299	-0.2114
ILMN_2410771	-0.16683	8.061131	-5.50997	1.25E-06	0.000411	5.293528
ILMN_1742731	0.16672	8.820646	5.112077	5.03E-06	0.001126	3.991829
ILMN_1676984	-0.16655	6.687393	-4.85233	1.23E-05	0.001922	3.156543
ILMN_2148668	-0.1663	7.46236	-3.89921	0.000288	0.016136	0.237968
ILMN_3235647	-0.16624	8.369752	-3.35258	0.001531	0.046017	-1.28916
ILMN_1664028	0.166099	9.475459	4.855172	1.22E-05	0.00192	3.165597
ILMN_1680465	-0.16545	6.953166	-3.48612	0.001029	0.036544	-0.92836
ILMN_1735658	-0.16523	9.171766	-3.96452	0.000234	0.014175	0.428704
ILMN_1652594	0.165046	6.7758	5.268598	2.91E-06	0.000776	4.50106
ILMN_1801313	-0.16471	8.011372	-3.45476	0.001131	0.038365	-1.01385
ILMN_1700168	0.164566	6.401959	3.921981	0.000268	0.015534	0.304292
ILMN_2155708	-0.16418	5.724865	-5.53255	1.15E-06	0.000393	5.368038
ILMN_1815024	-0.164	10.93684	-4.3012	7.86E-05	0.006742	1.43576
ILMN_1761941	-0.16374	6.231543	-3.39842	0.001337	0.042702	-1.16628
ILMN_1658992	0.163676	10.34544	5.267271	2.93E-06	0.000776	4.496723
ILMN_1807291	0.16353	5.682917	3.594647	0.000741	0.030188	-0.62904
ILMN_1728710	0.16342	6.954481	3.5585	0.000827	0.032266	-0.72933
ILMN_1712035	0.163416	7.517737	3.893636	0.000293	0.01629	0.221775
ILMN_1660723	0.163269	7.815519	3.470366	0.001079	0.037464	-0.97137
ILMN_3236825	-0.16319	7.840291	-3.97283	0.000228	0.013966	0.453091
ILMN_2095759	-0.16317	8.509451	-3.95432	0.000242	0.014507	0.398819
ILMN_1733667	0.163041	7.146015	5.657224	7.40E-07	0.00029	5.780561
ILMN_1791388	0.162698	8.038381	4.974707	8.09E-06	0.001544	3.548431
ILMN_1683313	0.162422	7.73199	4.878969	1.12E-05	0.001838	3.241577
ILMN_1801105	0.162318	8.112307	4.60092	2.90E-05	0.003443	2.361829
ILMN_2142117	-0.16231	9.308538	-4.11217	0.000146	0.01044	0.865606
ILMN_2394276	-0.16208	7.018932	-5.0389	6.48E-06	0.00133	3.755186
ILMN_1714741	-0.16198	7.070954	-3.80551	0.000386	0.01977	-0.03281
ILMN_3244323	0.161878	8.420129	4.988456	7.72E-06	0.001494	3.592649
ILMN_1734138	0.16177	7.228567	4.191438	0.000113	0.008743	1.103288
ILMN_1785644	0.161693	7.199323	4.169125	0.000121	0.009087	1.036173
ILMN_1705252	0.161587	6.430172	3.725341	0.000496	0.023197	-0.26168
ILMN_1751464	-0.1612	6.77298	-3.9164	0.000273	0.015534	0.288014
ILMN_2405254	-0.16075	7.769166	-3.33529	0.001611	0.047559	-1.33525
ILMN_1803856	-0.16071	6.942534	-3.62339	0.000679	0.028507	-0.54888
ILMN_1781454	0.160641	8.591168	4.377337	6.11E-05	0.005728	1.668583
ILMN_1669703	0.160472	8.590866	3.822009	0.000367	0.019072	0.014633
ILMN_1798256	-0.16026	10.07763	-3.58664	0.00076	0.030714	-0.6513
ILMN_1681326	0.160005	5.931447	6.236458	9.33E-08	6.99E-05	7.714393
ILMN_1701243	0.160004	7.875346	4.038393	0.000185	0.012201	0.646331
ILMN_1714352	0.159676	7.136768	3.320255	0.001683	0.048567	-1.37519
ILMN_2326509	-0.15948	8.811935	-3.43285	0.001207	0.040051	-1.07331
ILMN_3239217	0.159464	6.633795	4.571844	3.19E-05	0.00367	2.270912
ILMN_1670079	-0.15928	8.026146	-3.49006	0.001017	0.036364	-0.9176
ILMN_1745885	0.159247	10.33155	4.22465	0.000101	0.00812	1.203485

ILMN_1756806	-0.15912	8.925277	-3.55267	0.000842	0.032579	-0.74544
ILMN_1801833	-0.15905	6.69055	-3.43092	0.001214	0.040167	-1.07855
ILMN_1665526	0.158704	6.424292	3.417115	0.001265	0.041319	-1.11587
ILMN_1695110	0.158563	7.942509	3.876396	0.000309	0.016928	0.171736
ILMN_1719286	0.158512	7.652052	3.963292	0.000235	0.014201	0.425102
ILMN_1702211	-0.15839	6.537614	-3.74684	0.000464	0.022098	-0.20055
ILMN_1764522	0.158016	7.828939	3.384367	0.001394	0.043886	-1.20406
ILMN_1687315	0.157577	10.13046	3.466804	0.001091	0.037673	-0.98108
ILMN_1790455	0.157531	6.554547	4.143801	0.000131	0.009706	0.960202
ILMN_1700727	-0.15706	6.382961	-4.70373	2.05E-05	0.002744	2.684995
ILMN_1721022	0.156905	11.28542	4.631292	2.61E-05	0.003184	2.457029
ILMN_1683204	0.156723	8.05968	5.907633	3.03E-07	0.000149	6.613683
ILMN_1683082	0.156607	7.593366	4.525294	3.73E-05	0.004072	2.125819
ILMN_1808591	0.156492	9.949389	4.102476	0.00015	0.010705	0.836692
ILMN_1784641	0.156322	10.54662	3.456775	0.001124	0.038324	-1.00838
ILMN_1771815	0.156272	10.19336	6.654702	2.07E-08	2.87E-05	9.119979
ILMN_1750400	-0.15614	6.36807	-3.86324	0.000322	0.017561	0.13363
ILMN_1663954	0.15608	9.208176	3.94169	0.000252	0.014928	0.361851
ILMN_1695386	-0.15588	8.615201	-5.4452	1.57E-06	0.000491	5.080094
ILMN_1797698	0.155868	7.248442	6.529965	3.25E-08	3.86E-05	8.700493
ILMN_1768391	-0.15583	6.295915	-4.49123	4.19E-05	0.004399	2.020023
ILMN_1737535	0.15535	7.809927	4.879032	1.12E-05	0.001838	3.241776
ILMN_1812940	0.155224	8.171079	4.230794	9.90E-05	0.007996	1.22206
ILMN_2407464	0.155055	8.370746	3.715812	0.000511	0.023707	-0.28871
ILMN_1770505	-0.155	6.104167	-3.63683	0.000652	0.0277	-0.51127
ILMN_1658706	-0.15463	7.564188	-3.40987	0.001292	0.041956	-1.13543
ILMN_1665797	0.15461	10.52642	3.881786	0.000304	0.016722	0.187367
ILMN_2357193	-0.15455	6.711349	-4.8304	1.33E-05	0.001991	3.086621
ILMN_2125010	-0.15444	7.894929	-4.34548	6.79E-05	0.006115	1.570943
ILMN_1716821	0.154382	8.044105	3.508274	0.000963	0.035111	-0.8677
ILMN_1737426	-0.15423	9.140574	-3.6893	0.000555	0.024798	-0.3637
ILMN_1772731	-0.15403	8.037967	-3.36542	0.001474	0.044936	-1.25485
ILMN_1751743	0.153779	7.111816	4.868853	1.16E-05	0.001878	3.209261
ILMN_3244803	0.153575	6.940247	4.372629	6.21E-05	0.00577	1.654138
ILMN_1691117	0.153522	8.642115	5.032905	6.62E-06	0.001345	3.735851
ILMN_2126239	0.153477	7.785695	3.752896	0.000455	0.021837	-0.18331
ILMN_1801616	-0.1533	12.96734	-3.32389	0.001666	0.048418	-1.36554
ILMN_1722218	0.153028	7.885802	4.298708	7.93E-05	0.00678	1.428178
ILMN_1759436	0.152915	9.846954	3.697246	0.000541	0.024611	-0.34126
ILMN_1669390	0.152882	9.29823	3.364853	0.001477	0.044971	-1.25636
ILMN_1654001	-0.15274	7.716196	-4.29692	7.97E-05	0.006787	1.422735
ILMN_2183687	0.152672	6.975102	4.950134	8.81E-06	0.001614	3.469493
ILMN_1755352	0.152606	5.878212	3.466495	0.001092	0.037673	-0.98192
ILMN_1771987	0.152459	9.357103	3.754671	0.000453	0.021777	-0.17825
ILMN_2265654	0.152282	6.254246	5.048628	6.27E-06	0.001301	3.786596
ILMN_1760490	-0.1522	8.651016	-4.7446	1.78E-05	0.002495	2.814195
ILMN_1675007	0.152128	6.451682	5.030493	6.67E-06	0.001345	3.72807
ILMN_1666385	0.152057	11.11719	3.755176	0.000452	0.021773	-0.17681
ILMN_2075820	-0.15176	7.453887	-4.79889	1.48E-05	0.002143	2.986394
ILMN_1811729	0.151555	7.58875	3.796402	0.000398	0.020014	-0.05893
ILMN_2357781	0.151529	6.984022	3.488554	0.001022	0.036428	-0.92172
ILMN_1810334	0.151444	8.569222	4.051957	0.000177	0.011939	0.686501
ILMN_1809478	0.151262	11.47705	3.355385	0.001518	0.045758	-1.28167
ILMN_1782829	0.151193	6.668202	4.027037	0.000192	0.012526	0.612747

ILMN_1711383	0.151177	9.415097	5.291891	2.68E-06	0.000748	4.577174
ILMN_1735955	0.151077	8.686113	3.319045	0.001689	0.048699	-1.37841
ILMN_1729368	0.151074	6.394802	5.910464	3.00E-07	0.000149	6.623132
ILMN_1668369	-0.15095	11.22509	-3.76059	0.000445	0.02153	-0.16137
ILMN_3248857	-0.1505	6.346806	-4.03408	0.000187	0.012277	0.633578
ILMN_2323491	0.150433	8.391228	4.828619	1.34E-05	0.001995	3.08096
ILMN_1810891	0.150375	7.421438	3.953964	0.000242	0.014507	0.397768
ILMN_2283388	0.149732	10.62316	3.942651	0.000251	0.014908	0.36466
ILMN_1776375	-0.14925	9.59331	-4.89796	1.05E-05	0.001789	3.302307
ILMN_1728059	0.149219	7.675856	4.047887	0.000179	0.012019	0.674441
ILMN_1674394	0.149054	8.769143	3.465469	0.001095	0.037751	-0.98472
ILMN_1683059	-0.14904	7.756932	-3.41532	0.001272	0.041439	-1.12073
ILMN_1765684	-0.14901	10.39111	-3.42716	0.001228	0.040541	-1.08872
ILMN_1711450	0.148957	9.412244	3.927086	0.000264	0.015398	0.319188
ILMN_1779034	-0.1489	7.691803	-4.51662	3.84E-05	0.004141	2.098855
ILMN_3225784	0.148858	12.80393	3.32925	0.00164	0.047945	-1.35131
ILMN_1770653	-0.14855	11.45875	-4.36096	6.45E-05	0.005918	1.618345
ILMN_1717809	0.148416	6.697764	3.762703	0.000442	0.021449	-0.15534
ILMN_1755862	0.147969	8.186322	3.553976	0.000839	0.032546	-0.74184
ILMN_1667594	-0.14787	6.850008	-3.71985	0.000505	0.023476	-0.27725
ILMN_1770338	-0.14774	11.67637	-3.45529	0.001129	0.038349	-1.01242
ILMN_1777449	-0.14767	7.981589	-3.37235	0.001444	0.044537	-1.23628
ILMN_1725427	-0.14763	11.94789	-3.40402	0.001315	0.042371	-1.15118
ILMN_1713006	-0.14757	7.403597	-3.93071	0.000261	0.0153	0.329753
ILMN_1793203	0.147465	7.931098	4.558502	3.34E-05	0.003739	2.229268
ILMN_2332558	-0.14715	9.264805	-4.58897	3.01E-05	0.003534	2.32445
ILMN_1710844	-0.1471	6.676328	-3.89772	0.000289	0.016159	0.23364
ILMN_2359456	0.146922	8.970854	4.048175	0.000179	0.012019	0.675296
ILMN_2173451	0.146891	9.157835	3.630748	0.000664	0.028014	-0.5283
ILMN_1792748	0.14676	6.144422	4.194433	0.000112	0.008678	1.112308
ILMN_1738229	0.146561	8.189289	4.210926	0.000106	0.008375	1.162037
ILMN_1652754	0.146215	8.936248	3.558785	0.000827	0.032266	-0.72854
ILMN_3272768	-0.14617	6.624888	-6.00888	2.11E-07	0.000117	6.951944
ILMN_1737685	0.146161	9.912017	3.336211	0.001606	0.047499	-1.33279
ILMN_1769575	0.146114	5.614811	3.64837	0.000629	0.027207	-0.47892
ILMN_1695679	-0.14602	6.135872	-3.37692	0.001425	0.044289	-1.22404
ILMN_1711023	0.145942	8.144351	4.711132	1.99E-05	0.002726	2.708372
ILMN_1792825	0.145859	7.809389	3.314944	0.00171	0.04894	-1.38928
ILMN_1676197	0.145858	10.08529	3.37078	0.001451	0.044664	-1.24049
ILMN_2065783	-0.14557	7.062967	-5.69413	6.49E-07	0.000263	5.902991
ILMN_1770035	0.14557	7.938254	6.460908	4.16E-08	4.37E-05	8.468315
ILMN_1721225	0.145562	8.673909	6.047725	1.84E-07	0.000106	7.081889
ILMN_1790537	-0.14556	8.683089	-3.32668	0.001652	0.048147	-1.35814
ILMN_3227263	-0.14552	7.69568	-3.4178	0.001262	0.04129	-1.11403
ILMN_1741585	0.145515	6.201362	4.582443	3.08E-05	0.003583	2.304029
ILMN_1767658	0.14546	8.743809	4.248171	9.36E-05	0.007589	1.274661
ILMN_2144573	-0.14531	7.407936	-6.93279	7.60E-09	1.75E-05	10.05492
ILMN_1653133	-0.14513	8.267472	-5.27953	2.80E-06	0.000773	4.53677
ILMN_3265237	-0.1451	7.012253	-3.74245	0.00047	0.022309	-0.21306
ILMN_1696190	0.145057	7.341854	5.179287	3.98E-06	0.00094	4.209998
ILMN_1661484	0.144923	6.477409	3.85755	0.000328	0.017766	0.117166
ILMN_1718069	-0.14488	9.717053	-3.65846	0.00061	0.026644	-0.4506
ILMN_1753885	0.144481	8.759723	5.668451	7.11E-07	0.000282	5.81779
ILMN_3303673	-0.14438	7.409118	-3.84674	0.00034	0.018181	0.085922

ILMN_1728972	0.144304	7.406871	4.051157	0.000177	0.011939	0.68413
ILMN_1748077	-0.14429	8.373019	-4.28818	8.20E-05	0.006902	1.396141
ILMN_1654488	-0.14408	7.884099	-4.0157	0.000199	0.012768	0.579259
ILMN_1702073	-0.14407	7.020506	-5.35732	2.13E-06	0.000634	4.791413
ILMN_1688642	0.143925	6.268217	3.549667	0.00085	0.03277	-0.75375
ILMN_2050255	0.143898	8.970775	5.739448	5.52E-07	0.000234	6.053507
ILMN_1800311	-0.14389	7.430698	-4.45751	4.68E-05	0.004777	1.915581
ILMN_1733863	-0.14314	8.329745	-3.33721	0.001602	0.047401	-1.33014
ILMN_1683533	0.143067	6.642611	4.441495	4.94E-05	0.004927	1.866095
ILMN_1729142	0.143047	6.377382	3.366584	0.001469	0.044915	-1.25173
ILMN_1692754	-0.14238	9.73637	-3.57614	0.000784	0.031437	-0.68046
ILMN_2207393	0.142323	7.21087	4.884599	1.10E-05	0.00182	3.259567
ILMN_1651228	-0.14228	13.36566	-6.97261	6.58E-09	1.62E-05	10.18869
ILMN_1765770	0.14225	6.899082	3.377593	0.001422	0.044289	-1.22223
ILMN_1690610	0.142134	8.977126	4.69125	2.13E-05	0.002819	2.645638
ILMN_1745784	0.141999	6.744723	3.693038	0.000548	0.024798	-0.35316
ILMN_1687857	0.141927	7.076059	3.472706	0.001072	0.03739	-0.96499
ILMN_3235808	0.141921	9.152855	4.948784	8.85E-06	0.001614	3.465161
ILMN_1758173	-0.14191	9.107964	-4.68629	2.17E-05	0.002838	2.630005
ILMN_1700306	-0.14173	10.1864	-3.66853	0.000591	0.025996	-0.42225
ILMN_1788547	0.14165	8.061504	3.807212	0.000384	0.019694	-0.02791
ILMN_1682935	-0.1416	8.379604	-4.12118	0.000141	0.010277	0.892533
ILMN_1804329	0.141527	6.846296	4.673088	2.27E-05	0.00293	2.588413
ILMN_1821473	0.14145	6.241595	3.751173	0.000458	0.021893	-0.18822
ILMN_1662426	0.141433	11.20601	4.307395	7.70E-05	0.006655	1.454646
ILMN_1686152	-0.14141	7.40316	-4.08174	0.000161	0.011128	0.774952
ILMN_1738263	0.141127	7.787818	4.006545	0.000205	0.012965	0.552263
ILMN_1747744	0.141	7.483208	4.014795	0.000199	0.012768	0.576597
ILMN_1666727	0.14088	7.476774	4.154949	0.000127	0.009421	0.99362
ILMN_3204734	0.140815	9.880486	3.548605	0.000853	0.032839	-0.75668
ILMN_3219340	0.14081	12.83704	3.511005	0.000955	0.035028	-0.86021
ILMN_3246608	0.140682	6.307201	3.637203	0.000651	0.0277	-0.51023
ILMN_2175112	-0.14064	6.505594	-3.54106	0.000872	0.033133	-0.7775
ILMN_1761858	0.140603	8.379168	4.71024	2.00E-05	0.002726	2.705557
ILMN_1654653	0.140549	7.652321	5.538333	1.13E-06	0.000389	5.387142
ILMN_1786893	0.140339	9.273498	3.360402	0.001496	0.045325	-1.26827
ILMN_1741371	-0.14018	6.492369	-3.9852	0.000219	0.013631	0.489427
ILMN_1715273	-0.14017	9.627349	-4.16998	0.000121	0.009087	1.038755
ILMN_1669484	0.140056	9.247776	4.217714	0.000103	0.008241	1.18253
ILMN_1689327	0.139804	11.86812	5.004905	7.29E-06	0.001422	3.645601
ILMN_2407124	0.139741	6.874062	3.499223	0.00099	0.035741	-0.89251
ILMN_1737604	-0.13969	7.910983	-3.78866	0.000407	0.020302	-0.08112
ILMN_1798712	0.13965	6.692122	3.800621	0.000392	0.019868	-0.04683
ILMN_1765649	0.139577	7.80209	4.171214	0.00012	0.009073	1.04245
ILMN_2333107	-0.13944	8.586003	-4.17249	0.00012	0.009055	1.046288
ILMN_1772124	0.139399	7.905463	3.944809	0.000249	0.014858	0.370972
ILMN_1712231	-0.13929	9.444425	-3.48691	0.001027	0.036495	-0.92621
ILMN_2387599	0.139277	11.77284	4.751618	1.74E-05	0.002466	2.836411
ILMN_1804150	-0.13909	9.13232	-4.07502	0.000164	0.0113	0.754967
ILMN_3224290	0.139012	9.645384	3.322847	0.001671	0.048443	-1.36832
ILMN_1697817	-0.13895	7.647454	-3.68422	0.000563	0.024994	-0.37805
ILMN_2364131	0.138816	8.838955	5.082808	5.57E-06	0.001214	3.897064
ILMN_1690268	0.138808	9.935304	3.543485	0.000866	0.033093	-0.77082
ILMN_1660341	0.138728	8.027969	3.399388	0.001333	0.042678	-1.16367

ILMN_1702279	0.138561	7.827281	4.450664	4.79E-05	0.004816	1.894419
ILMN_1729987	0.138557	8.692391	4.74791	1.76E-05	0.002487	2.824669
ILMN_1722294	-0.13824	7.407387	-5.3076	2.54E-06	0.000718	4.628552
ILMN_1673111	0.138104	9.131493	3.709858	0.00052	0.023987	-0.30558
ILMN_1698673	-0.13809	7.12604	-5.06507	5.92E-06	0.001252	3.839722
ILMN_1701940	0.138073	7.001941	5.804244	4.38E-07	0.000194	6.269047
ILMN_1811836	-0.13804	8.139387	-3.36865	0.00146	0.044826	-1.24619
ILMN_2369785	0.138024	12.81444	5.504852	1.27E-06	0.000411	5.27664
ILMN_1727300	0.137983	7.468963	5.199442	3.71E-06	0.000899	4.275568
ILMN_1755974	0.137799	7.42346	3.402648	0.00132	0.042432	-1.15489
ILMN_1814966	0.137439	7.410336	4.212699	0.000105	0.008346	1.167388
ILMN_1747281	-0.13743	7.329939	-4.06427	0.00017	0.011592	0.723016
ILMN_2124802	0.137381	5.790428	3.68987	0.000554	0.024798	-0.36211
ILMN_1755077	-0.13733	11.37783	-3.90675	0.000281	0.015911	0.2599
ILMN_1752283	0.137263	7.497097	5.420497	1.71E-06	0.000522	4.998849
ILMN_1803988	-0.13717	10.12275	-3.4947	0.001003	0.035992	-0.90491
ILMN_1718285	0.137054	6.144673	3.667849	0.000592	0.026018	-0.42418
ILMN_1815885	0.136963	6.751586	4.165045	0.000123	0.009166	1.023919
ILMN_1676792	0.136934	12.62773	3.357984	0.001507	0.045529	-1.27473
ILMN_1718771	-0.13689	6.72125	-3.58077	0.000773	0.031105	-0.6676
ILMN_2337336	0.136858	6.485446	3.752413	0.000456	0.021839	-0.18468
ILMN_1724734	0.136772	6.443757	5.187953	3.86E-06	0.000918	4.238183
ILMN_2317730	0.1365	7.618262	5.252908	3.08E-06	0.000792	4.449832
ILMN_1795228	-0.13648	11.03292	-3.379	0.001416	0.044216	-1.21846
ILMN_1722426	-0.13628	5.769089	-4.36667	6.33E-05	0.005854	1.63585
ILMN_1809957	0.136156	12.30113	7.000736	5.95E-09	1.58E-05	10.28316
ILMN_1804419	-0.13615	6.165495	-3.50775	0.000964	0.035112	-0.86915
ILMN_1794781	0.13611	6.908979	5.276932	2.83E-06	0.000774	4.528282
ILMN_2373266	-0.13596	8.809098	-4.96026	8.50E-06	0.001593	3.502003
ILMN_1702835	-0.13592	9.257488	-4.0138	0.0002	0.012779	0.573656
ILMN_1653501	0.135578	5.587015	5.597469	9.14E-07	0.000335	5.582632
ILMN_2347068	-0.13555	9.922888	-3.80921	0.000382	0.019658	-0.02216
ILMN_2159453	-0.13552	8.276362	-3.85559	0.00033	0.017848	0.111507
ILMN_3288755	0.135497	6.588679	3.803443	0.000389	0.01978	-0.03873
ILMN_3180557	0.135472	6.933027	5.116973	4.94E-06	0.001114	4.007695
ILMN_1670322	-0.13541	7.840022	-3.88385	0.000302	0.016653	0.19335
ILMN_1752884	0.135355	6.1438	3.553784	0.000839	0.032546	-0.74237
ILMN_1796099	0.135193	7.155118	3.460599	0.001111	0.038039	-0.99798
ILMN_1900270	-0.13517	6.401475	-3.37683	0.001425	0.044289	-1.22429
ILMN_1751615	-0.13509	8.943403	-3.4785	0.001053	0.036933	-0.94918
ILMN_1794213	0.134901	6.118721	3.477899	0.001055	0.036962	-0.95083
ILMN_1657204	0.134887	11.45826	3.508431	0.000962	0.035111	-0.86727
ILMN_1758906	-0.13487	9.010846	-5.70438	6.26E-07	0.000257	5.937022
ILMN_1761069	-0.13487	7.418122	-3.54499	0.000862	0.033017	-0.76667
ILMN_1812327	-0.13486	6.350576	-4.3575	6.53E-05	0.005954	1.607751
ILMN_1731193	0.134828	6.411773	5.253807	3.07E-06	0.000792	4.452766
ILMN_1703142	-0.13471	6.363091	-4.2932	8.07E-05	0.006853	1.411394
ILMN_1658807	-0.13456	6.922589	-4.04272	0.000182	0.01217	0.659137
ILMN_2402806	0.134361	8.329239	4.605529	2.85E-05	0.003413	2.376263
ILMN_2403555	0.134145	6.899727	3.892628	0.000294	0.016316	0.218845
ILMN_1787932	-0.1339	6.155758	-3.49438	0.001004	0.035992	-0.90576
ILMN_1658015	-0.13354	7.671465	-3.86222	0.000323	0.01759	0.130678
ILMN_1653599	-0.13353	10.79695	-3.52722	0.000909	0.034118	-0.81565
ILMN_2167922	0.133517	11.34824	4.785775	1.55E-05	0.002232	2.944725

ILMN_1777444	-0.1335	7.396279	-4.67071	2.29E-05	0.002932	2.580926
ILMN_1656066	0.133497	9.395813	4.946671	8.91E-06	0.001617	3.458379
ILMN_1778803	-0.13348	8.24874	-4.93586	9.25E-06	0.001652	3.423682
ILMN_1792078	0.133274	9.804828	4.276182	8.53E-05	0.007124	1.359651
ILMN_1654064	-0.13315	7.089103	-4.65043	2.45E-05	0.003069	2.517138
ILMN_1668834	-0.13314	6.53654	-3.69165	0.000551	0.024798	-0.35708
ILMN_1808391	-0.13303	5.873943	-3.87471	0.000311	0.016991	0.166848
ILMN_1758633	0.132913	8.386412	3.498575	0.000991	0.035741	-0.89429
ILMN_1812461	0.132912	6.393518	4.848624	1.25E-05	0.001927	3.144711
ILMN_1721704	-0.13291	9.435152	-3.37876	0.001417	0.044216	-1.21911
ILMN_1757847	-0.13289	7.089486	-4.88867	1.09E-05	0.001811	3.272596
ILMN_2063925	0.132751	8.524528	4.000071	0.000209	0.013188	0.533188
ILMN_1775486	-0.1327	5.641129	-3.63525	0.000655	0.027737	-0.51569
ILMN_1806809	0.132642	6.996511	3.6185	0.000689	0.028788	-0.56254
ILMN_1808860	-0.13262	8.62686	-5.00737	7.23E-06	0.001422	3.65353
ILMN_1770977	-0.13243	8.74774	-4.79909	1.48E-05	0.002143	2.987025
ILMN_1769734	-0.13238	9.050755	-3.89813	0.000289	0.016159	0.234841
ILMN_1651886	0.132079	9.567376	4.03667	0.000186	0.012245	0.64123
ILMN_2350574	0.132019	7.019527	3.376672	0.001426	0.044289	-1.2247
ILMN_1734827	0.131914	6.450167	4.250008	9.30E-05	0.007579	1.280227
ILMN_1715969	0.131778	7.124269	4.288041	8.21E-05	0.006902	1.395708
ILMN_1793033	0.131519	7.364432	4.025448	0.000193	0.012526	0.608052
ILMN_1678052	-0.13137	7.657149	-3.31395	0.001715	0.04894	-1.39193
ILMN_2176037	-0.13126	8.145888	-6.12338	1.40E-07	9.11E-05	7.335231
ILMN_1653896	0.131024	6.707074	3.563268	0.000815	0.032056	-0.71613
ILMN_1761722	0.130575	6.721795	4.505772	3.99E-05	0.004255	2.065141
ILMN_1784436	0.130122	7.171081	3.727791	0.000492	0.023093	-0.25473
ILMN_1747223	-0.13008	8.365961	-3.82273	0.000366	0.019071	0.016703
ILMN_1760143	0.129678	10.37174	4.386412	5.93E-05	0.005634	1.696448
ILMN_2411794	0.129596	8.508565	4.641216	2.53E-05	0.003133	2.488187
ILMN_1700337	0.129543	7.679403	3.793528	0.000401	0.020087	-0.06717
ILMN_1702866	0.12942	5.750363	5.420036	1.71E-06	0.000522	4.997331
ILMN_1748894	0.129285	8.536682	3.763282	0.000441	0.021449	-0.15369
ILMN_1764323	-0.1289	9.198453	-4.58203	3.09E-05	0.003583	2.302727
ILMN_2386100	0.128884	9.046575	3.710598	0.000519	0.023964	-0.30349
ILMN_1676759	0.128789	7.911027	4.310859	7.61E-05	0.006596	1.465206
ILMN_1771824	0.128721	6.442188	5.134613	4.65E-06	0.001068	4.064897
ILMN_1678949	0.128575	7.116892	4.427449	5.18E-05	0.005085	1.822753
ILMN_2174081	0.128539	7.115872	3.350455	0.001541	0.046176	-1.29483
ILMN_1697348	0.128284	8.438112	3.838904	0.000348	0.018491	0.063311
ILMN_1693145	0.128204	11.4118	3.904125	0.000283	0.015964	0.252274
ILMN_1714364	-0.12809	11.31818	-3.66388	0.0006	0.026271	-0.43535
ILMN_1672947	-0.12781	9.153308	-3.5133	0.000948	0.034911	-0.85392
ILMN_2171295	0.127769	7.261982	3.508105	0.000963	0.035111	-0.86816
ILMN_1773002	-0.12775	7.412498	-3.40056	0.001329	0.042649	-1.1605
ILMN_1651799	-0.12774	11.70725	-3.60703	0.000714	0.029542	-0.59456
ILMN_1754727	-0.12763	6.925514	-4.21813	0.000103	0.008241	1.183775
ILMN_1747183	0.127496	6.988828	3.984996	0.000219	0.013631	0.488825
ILMN_1770911	0.127495	6.857643	4.33939	6.93E-05	0.006223	1.55233
ILMN_1697735	0.127458	9.890322	5.256236	3.04E-06	0.000792	4.460696
ILMN_1677402	-0.12735	6.360593	-3.34551	0.001563	0.0467	-1.30803
ILMN_1679195	0.127276	11.71869	4.131799	0.000137	0.010026	0.924271
ILMN_1741985	-0.12727	6.556949	-4.70614	2.03E-05	0.002732	2.692598
ILMN_1731354	0.127163	9.639258	4.179878	0.000117	0.008879	1.068496

ILMN_1802646	0.127105	5.629979	3.326603	0.001652	0.048147	-1.35834
ILMN_3233179	0.127101	7.616117	3.306308	0.001754	0.04984	-1.41216
ILMN_1750051	0.126996	6.800724	4.450784	4.79E-05	0.004816	1.89479
ILMN_1778255	0.126946	7.104808	3.749329	0.00046	0.021988	-0.19347
ILMN_1671568	-0.12678	8.992622	-3.64606	0.000633	0.027241	-0.48541
ILMN_1741942	0.126718	9.043092	3.47913	0.001051	0.036901	-0.94747
ILMN_1674421	0.126449	8.956569	3.702633	0.000532	0.024369	-0.32603
ILMN_1775522	0.126307	9.771732	3.339125	0.001593	0.047297	-1.32504
ILMN_1769158	0.126127	8.019062	3.637174	0.000651	0.0277	-0.51031
ILMN_2328378	-0.12612	7.923599	-3.30907	0.001739	0.049521	-1.40485
ILMN_1784352	-0.12607	8.794541	-3.97738	0.000225	0.013825	0.466443
ILMN_1687351	-0.12599	7.549386	-4.38386	5.98E-05	0.005651	1.688604
ILMN_1784540	-0.12578	8.812635	-3.45349	0.001135	0.038458	-1.0173
ILMN_1787280	0.125731	8.156233	3.817671	0.000372	0.019231	0.002154
ILMN_2363591	-0.12554	9.224569	-4.20682	0.000107	0.008446	1.149656
ILMN_2369221	-0.12552	5.999184	-3.50327	0.000978	0.035401	-0.88143
ILMN_1771966	0.125184	10.57052	3.479415	0.00105	0.036901	-0.94669
ILMN_1727001	0.124946	7.703579	3.795114	0.000399	0.020061	-0.06262
ILMN_1757914	0.124906	9.621177	3.327122	0.00165	0.048147	-1.35696
ILMN_2169761	-0.1249	7.763599	-3.44171	0.001176	0.039438	-1.04929
ILMN_2225061	0.124888	5.399499	4.842531	1.27E-05	0.001949	3.125284
ILMN_1733875	0.124827	7.811225	3.929631	0.000261	0.015308	0.326616
ILMN_1774589	0.124805	6.94714	3.755986	0.000451	0.021749	-0.1745
ILMN_1669268	-0.12477	7.286341	-3.51944	0.000931	0.034679	-0.83703
ILMN_2203896	-0.12468	7.439711	-3.5293	0.000904	0.033963	-0.8099
ILMN_1665095	0.124573	7.455196	3.779234	0.00042	0.020723	-0.1081
ILMN_1657631	-0.12449	6.994022	-4.51994	3.80E-05	0.004109	2.109171
ILMN_2182704	-0.12446	9.554422	-4.31169	7.59E-05	0.006596	1.467727
ILMN_1731165	0.12446	5.676588	3.369585	0.001456	0.044742	-1.24369
ILMN_1729281	0.12443	7.419073	4.537472	3.58E-05	0.003963	2.163721
ILMN_1703316	0.124408	7.538053	3.574074	0.000789	0.031452	-0.68619
ILMN_1795639	0.124236	9.320822	3.676455	0.000577	0.025468	-0.39995
ILMN_2047676	-0.12423	7.323166	-3.3661	0.001471	0.044915	-1.25303
ILMN_1694759	0.124112	7.99306	4.184746	0.000115	0.008798	1.08314
ILMN_1711823	0.124058	8.071418	3.757676	0.000449	0.021665	-0.16968
ILMN_1755664	0.123941	6.608051	5.236112	3.26E-06	0.000815	4.395042
ILMN_1673522	-0.12384	8.374233	-3.57427	0.000789	0.031452	-0.68565
ILMN_1733511	0.123742	9.79902	4.535455	3.61E-05	0.003969	2.157442
ILMN_1678966	0.123701	11.14048	3.364348	0.001479	0.044998	-1.25771
ILMN_1813657	0.123648	7.18278	4.023809	0.000194	0.012553	0.60321
ILMN_1779163	-0.12359	8.642296	-3.88734	0.000299	0.016537	0.203479
ILMN_1678054	-0.12351	7.81865	-3.37466	0.001434	0.044352	-1.23011
ILMN_1778488	-0.12336	7.39079	-4.53498	3.61E-05	0.003969	2.155951
ILMN_2167416	-0.12295	7.18592	-3.62304	0.00068	0.028507	-0.54985
ILMN_2367258	0.122871	5.760206	3.375038	0.001433	0.044346	-1.22908
ILMN_1728626	0.122818	8.320201	3.908833	0.000279	0.015832	0.265979
ILMN_1759595	0.122777	7.280271	5.690125	6.58E-07	0.000264	5.8897
ILMN_1740197	0.122742	6.46239	4.819811	1.38E-05	0.002038	3.052922
ILMN_1672843	-0.12274	8.3593	-4.0634	0.00017	0.011592	0.720448
ILMN_2219134	-0.1227	12.86068	-4.2054	0.000108	0.00845	1.145364
ILMN_1746426	0.122563	9.547126	4.438506	4.99E-05	0.004947	1.856869
ILMN_1743662	-0.12256	6.300212	-4.60933	2.82E-05	0.003382	2.388183
ILMN_1706779	0.122445	7.750245	3.382088	0.001403	0.043982	-1.21017
ILMN_1693004	0.122432	7.82199	3.322351	0.001673	0.048473	-1.36963

ILMN_1802338	-0.1224	6.528872	-4.90325	1.03E-05	0.001773	3.319217
ILMN_1661170	0.122363	11.5488	4.063984	0.00017	0.011592	0.722178
ILMN_1665300	-0.12235	7.015094	-5.46894	1.44E-06	0.000456	5.158272
ILMN_2063500	0.122297	7.628167	4.613823	2.77E-05	0.003342	2.402245
ILMN_1679483	0.122276	8.198779	3.945152	0.000249	0.014858	0.371974
ILMN_1757343	0.122275	10.7549	4.379265	6.07E-05	0.00571	1.674501
ILMN_1774196	0.122274	9.275008	3.926258	0.000264	0.015412	0.316772
ILMN_1674661	-0.12214	10.48293	-3.37518	0.001432	0.044346	-1.22869
ILMN_1778240	0.122038	8.455276	3.534691	0.000889	0.033576	-0.79507
ILMN_1663042	0.122013	9.702589	3.683455	0.000565	0.025005	-0.38021
ILMN_1670948	0.121991	8.812808	4.069337	0.000167	0.01144	0.738072
ILMN_1722089	-0.12197	7.619406	-3.68774	0.000557	0.02482	-0.36812
ILMN_2358914	0.121956	6.50809	4.187644	0.000114	0.008774	1.091863
ILMN_1704247	-0.12189	6.781117	-3.95792	0.000239	0.0144	0.409355
ILMN_1723467	-0.12185	11.41865	-3.99908	0.00021	0.013206	0.530273
ILMN_2340721	-0.12177	8.480932	-4.35288	6.63E-05	0.00603	1.593605
ILMN_1784227	0.121486	8.89894	4.863952	1.18E-05	0.001881	3.193614
ILMN_1805344	-0.12144	11.86283	-3.51803	0.000935	0.034774	-0.8409
ILMN_1823112	0.121208	6.26093	4.649588	2.46E-05	0.003069	2.514488
ILMN_1803773	0.121198	6.123491	4.453176	4.75E-05	0.004816	1.902183
ILMN_1801767	-0.12117	6.987505	-3.32824	0.001644	0.048047	-1.35399
ILMN_1711909	0.121098	7.403274	3.420775	0.001251	0.041004	-1.10598
ILMN_3240187	0.12094	9.69429	4.07302	0.000165	0.01135	0.749013
ILMN_1793743	-0.1209	8.542338	-4.04217	0.000183	0.01217	0.657517
ILMN_1686135	-0.12087	8.359989	-3.38268	0.001401	0.043982	-1.20858
ILMN_1655952	0.120472	9.16614	3.733743	0.000483	0.022857	-0.23782
ILMN_1801600	0.120299	8.147344	3.461924	0.001107	0.037926	-0.99437
ILMN_1708787	0.120235	6.52756	3.567809	0.000804	0.031909	-0.70356
ILMN_1755850	0.120167	5.583099	3.512599	0.00095	0.034911	-0.85583
ILMN_2374115	-0.12016	8.599269	-3.51413	0.000946	0.034911	-0.85164
ILMN_1706960	-0.12005	6.299473	-3.76875	0.000433	0.021229	-0.13808
ILMN_1783702	-0.11993	7.721322	-3.36173	0.00149	0.045292	-1.26471
ILMN_1768194	-0.11992	7.726417	-4.63798	2.56E-05	0.003136	2.478018
ILMN_1740430	0.119675	6.808733	4.413604	5.42E-05	0.005269	1.780086
ILMN_1665049	-0.11963	8.704278	-4.53736	3.59E-05	0.003963	2.16338
ILMN_1712944	-0.11962	9.416916	-3.82354	0.000365	0.019051	0.019052
ILMN_1734231	0.119445	9.752719	3.701724	0.000534	0.024369	-0.3286
ILMN_1815656	0.119427	8.904437	3.467802	0.001087	0.037641	-0.97836
ILMN_1754865	0.119325	9.424259	4.313832	7.54E-05	0.006581	1.474273
ILMN_2392080	-0.11932	7.594627	-3.60323	0.000722	0.029718	-0.60514
ILMN_1695797	0.119236	8.588752	3.496548	0.000998	0.03586	-0.89984
ILMN_1759991	0.11923	8.673025	4.438303	4.99E-05	0.004947	1.856242
ILMN_1745513	0.11922	7.305104	3.396457	0.001345	0.042812	-1.17156
ILMN_1707199	0.119147	7.796457	4.3319	7.10E-05	0.006329	1.529435
ILMN_1738103	0.119133	9.375674	3.375861	0.001429	0.044346	-1.22688
ILMN_1698015	0.118924	6.189212	4.514407	3.87E-05	0.004147	2.091968
ILMN_3261111	0.118895	6.0825	4.198557	0.00011	0.008582	1.124735
ILMN_1684591	0.118873	7.380275	4.005224	0.000205	0.012996	0.548372
ILMN_1692123	0.118778	6.494237	4.09672	0.000153	0.010842	0.819534
ILMN_1762439	-0.11863	7.006073	-3.75867	0.000447	0.021629	-0.16685
ILMN_3256325	0.118552	7.767774	3.36104	0.001493	0.045319	-1.26656
ILMN_1844692	-0.1182	8.90904	-3.34145	0.001582	0.047137	-1.31883
ILMN_1671619	0.117859	6.073866	4.441219	4.94E-05	0.004927	1.865243
ILMN_2405009	-0.11777	9.694206	-3.50819	0.000963	0.035111	-0.86793

ILMN_1799487	-0.11774	5.456221	-4.39653	5.74E-05	0.005479	1.727558
ILMN_1657129	-0.11769	8.061768	-3.72596	0.000495	0.023192	-0.25992
ILMN_3237209	0.117677	6.406315	4.673235	2.27E-05	0.00293	2.588875
ILMN_1681135	0.117592	6.153082	5.421089	1.71E-06	0.000522	5.000794
ILMN_1743806	-0.11757	7.173525	-3.57027	0.000798	0.031744	-0.69673
ILMN_1700733	-0.11753	8.020116	-3.83494	0.000352	0.018636	0.05187
ILMN_1720850	-0.11746	7.84599	-4.18015	0.000117	0.008879	1.069303
ILMN_1790461	-0.1173	10.46785	-3.99434	0.000213	0.01331	0.516323
ILMN_2389155	-0.11713	9.368498	-4.20725	0.000107	0.008446	1.150944
ILMN_1720838	-0.11711	10.69731	-4.52452	3.74E-05	0.004072	2.12341
ILMN_1671603	-0.11707	9.146976	-5.97435	2.39E-07	0.000125	6.836506
ILMN_2197247	0.116777	7.95462	4.181033	0.000116	0.008879	1.07197
ILMN_1702198	0.116701	7.340192	4.470886	4.48E-05	0.00461	1.956968
ILMN_2278819	-0.11652	6.91849	-4.11815	0.000143	0.010347	0.883455
ILMN_1808047	-0.1164	6.950668	-3.48362	0.001037	0.036654	-0.93521
ILMN_1705682	0.116254	5.980359	3.780066	0.000418	0.020699	-0.10572
ILMN_1688011	0.116192	7.523639	4.35094	6.67E-05	0.006053	1.58767
ILMN_2175114	-0.11611	5.816607	-3.64742	0.000631	0.027218	-0.48158
ILMN_3238269	0.116015	8.443412	4.164159	0.000123	0.009166	1.021257
ILMN_1737611	0.115991	6.66995	4.695003	2.11E-05	0.002794	2.657472
ILMN_1730077	0.115958	8.436897	4.598678	2.92E-05	0.003457	2.354813
ILMN_1781803	0.115932	6.925614	4.085971	0.000159	0.011033	0.787527
ILMN_1671932	0.11583	8.787435	4.198882	0.00011	0.008582	1.125713
ILMN_1813344	0.11573	8.433726	3.326378	0.001653	0.048147	-1.35894
ILMN_2053567	0.115699	7.403784	4.117346	0.000143	0.010352	0.881067
ILMN_3307786	0.115436	7.343689	4.093486	0.000155	0.010908	0.809901
ILMN_3225300	-0.11543	9.027645	-3.9325	0.000259	0.015239	0.335007
ILMN_2381121	0.115375	7.002543	3.833445	0.000354	0.018691	0.04757
ILMN_1722522	-0.11534	7.330681	-4.62744	2.65E-05	0.003215	2.444955
ILMN_1695311	-0.11528	6.497101	-3.64322	0.000639	0.027399	-0.49336
ILMN_1748057	-0.11523	6.078795	-4.21727	0.000104	0.008241	1.181188
ILMN_1791097	0.115081	7.561567	3.41466	0.001274	0.04148	-1.1225
ILMN_1683916	-0.11502	8.270671	-3.54254	0.000868	0.033115	-0.77343
ILMN_1710408	-0.11455	6.543896	-3.39498	0.001351	0.042894	-1.17553
ILMN_1819783	-0.11444	7.253281	-3.31477	0.001711	0.04894	-1.38973
ILMN_1768930	0.114359	10.04637	3.760925	0.000444	0.02153	-0.16041
ILMN_1654289	0.114309	8.02617	3.924092	0.000266	0.015492	0.310451
ILMN_2399264	0.114299	6.216862	4.113955	0.000145	0.010423	0.87094
ILMN_1781791	-0.11418	7.244427	-3.72503	0.000497	0.023197	-0.26258
ILMN_1737360	0.114132	5.933497	3.80403	0.000388	0.01978	-0.03704
ILMN_1809488	-0.11395	10.62056	-3.56376	0.000814	0.032056	-0.71477
ILMN_1729314	-0.11392	6.349821	-3.54129	0.000872	0.033133	-0.77686
ILMN_1692748	-0.1139	7.544309	-3.48949	0.001019	0.036364	-0.91917
ILMN_3249742	0.113839	6.037584	3.72818	0.000492	0.023093	-0.25362
ILMN_1669308	0.113745	7.241029	3.979611	0.000223	0.013776	0.472999
ILMN_1750636	0.113644	11.9311	3.359878	0.001498	0.045355	-1.26966
ILMN_2356955	-0.11327	6.470147	-3.31823	0.001693	0.048774	-1.38056
ILMN_2043109	0.113253	7.624979	4.264225	8.88E-05	0.007286	1.32334
ILMN_1659800	-0.11322	5.620496	-3.69026	0.000553	0.024798	-0.36101
ILMN_1806010	-0.11303	6.587764	-4.17866	0.000117	0.008895	1.064842
ILMN_1758339	0.113025	6.375826	3.350225	0.001542	0.046176	-1.29545
ILMN_1679324	0.113	9.648037	3.529087	0.000904	0.033963	-0.8105
ILMN_1658290	0.112868	7.569182	4.086318	0.000158	0.011033	0.788559
ILMN_1778242	0.11285	10.31384	3.483068	0.001039	0.036654	-0.93671

ILMN_1662161	0.112786	6.398688	4.035004	0.000187	0.012264	0.636302
ILMN_1693438	-0.11276	7.133441	-3.91728	0.000272	0.015534	0.290582
ILMN_1658677	0.11269	5.559248	3.803652	0.000389	0.01978	-0.03813
ILMN_1738420	0.11269	5.652472	4.185911	0.000115	0.008798	1.086646
ILMN_1657058	-0.11248	5.838526	-3.97251	0.000228	0.013966	0.452142
ILMN_1664025	0.112449	6.58128	3.455467	0.001128	0.038349	-1.01194
ILMN_1656194	-0.11224	5.805572	-4.36298	6.41E-05	0.005894	1.62456
ILMN_2397024	-0.11204	9.407902	-3.69263	0.000549	0.024798	-0.35431
ILMN_1675577	0.111843	7.180331	4.477396	4.38E-05	0.004538	1.977129
ILMN_1772677	0.111783	8.256293	4.271424	8.67E-05	0.007193	1.345196
ILMN_1811560	0.111641	8.083334	3.801635	0.000391	0.019839	-0.04392
ILMN_1812441	0.111605	8.001096	3.546789	0.000857	0.032877	-0.7617
ILMN_2198393	-0.11151	8.687471	-3.77515	0.000425	0.020898	-0.11977
ILMN_1671326	0.111497	6.730258	3.788575	0.000407	0.020302	-0.08136
ILMN_2360784	0.111433	9.320021	3.321264	0.001678	0.048546	-1.37252
ILMN_1798164	-0.1114	9.01414	-3.44927	0.001149	0.038809	-1.02878
ILMN_1683096	-0.11129	7.129923	-3.55769	0.000829	0.032309	-0.73158
ILMN_1779639	-0.11116	6.887925	-3.53881	0.000878	0.033234	-0.78372
ILMN_1676955	-0.11113	7.835196	-3.78111	0.000417	0.020661	-0.10274
ILMN_1790782	-0.11093	7.497588	-3.85222	0.000334	0.01801	0.101749
ILMN_1711102	-0.11092	7.192119	-3.75296	0.000455	0.021837	-0.18311
ILMN_2281186	-0.11091	5.81226	-4.4646	4.57E-05	0.00468	1.937528
ILMN_2352121	-0.11081	9.799415	-3.70529	0.000528	0.024295	-0.31851
ILMN_3251742	0.110777	7.084747	3.483081	0.001039	0.036654	-0.93668
ILMN_1691341	0.110749	6.484653	3.727812	0.000492	0.023093	-0.25467
ILMN_1687275	0.110584	8.405381	3.847352	0.000339	0.018174	0.087695
ILMN_2323633	0.110566	8.173019	3.895057	0.000292	0.016243	0.225905
ILMN_1803906	-0.11045	6.160431	-3.37502	0.001433	0.044346	-1.22913
ILMN_1725079	0.11042	7.7611	3.690842	0.000552	0.024798	-0.35936
ILMN_1669142	0.11004	7.797861	3.694115	0.000546	0.024785	-0.35011
ILMN_2094952	-0.11002	6.927402	-3.63515	0.000655	0.027737	-0.51597
ILMN_1806937	0.109829	8.86122	4.330333	7.14E-05	0.006341	1.524645
ILMN_2372011	0.1097	7.896012	3.3726	0.001443	0.044537	-1.23562
ILMN_1712859	-0.10944	6.573917	-4.08917	0.000157	0.010993	0.797047
ILMN_1661156	-0.10923	6.184562	-3.88361	0.000302	0.016653	0.192673
ILMN_1685022	0.109037	7.183875	3.334327	0.001615	0.047559	-1.33781
ILMN_1685286	0.108951	6.625015	3.782909	0.000415	0.020575	-0.09759
ILMN_1777528	0.108802	8.948298	3.996399	0.000211	0.013271	0.522373
ILMN_2242068	0.108732	6.378102	3.517001	0.000938	0.034825	-0.84374
ILMN_2181445	-0.10869	9.481545	-4.32975	7.15E-05	0.006341	1.522877
ILMN_1691112	-0.10861	7.70707	-3.68323	0.000565	0.025005	-0.38084
ILMN_1741736	-0.10856	8.045154	-3.84463	0.000342	0.018245	0.079826
ILMN_2352724	-0.10828	7.306223	-3.55057	0.000847	0.032718	-0.75126
ILMN_3261197	0.108269	10.5973	3.367275	0.001466	0.044915	-1.24988
ILMN_1726288	-0.10821	7.420287	-3.31397	0.001715	0.04894	-1.39185
ILMN_2058141	0.108209	11.87573	3.704362	0.000529	0.0243	-0.32114
ILMN_2144791	-0.10817	7.125175	-3.84095	0.000346	0.018403	0.069227
ILMN_2341467	0.108098	9.430058	3.773711	0.000427	0.020962	-0.1239
ILMN_1694504	0.108085	7.615096	3.590374	0.000751	0.030491	-0.64093
ILMN_1704500	-0.10804	6.769832	-3.56476	0.000812	0.032053	-0.712
ILMN_3205271	0.108002	11.52807	3.536005	0.000886	0.033479	-0.79144
ILMN_2124361	0.107929	6.170762	4.081002	0.000161	0.011128	0.772744
ILMN_1728224	0.107888	7.247527	3.320295	0.001683	0.048567	-1.37509
ILMN_2073010	0.107887	8.622636	3.416923	0.001266	0.041319	-1.11639

ILMN_1904135	0.107822	6.387132	3.634787	0.000656	0.027737	-0.517
ILMN_2346727	-0.10777	7.1026	-3.68242	0.000566	0.025036	-0.38314
ILMN_1755221	-0.10769	7.623086	-3.9651	0.000234	0.014174	0.430392
ILMN_1732053	0.107534	10.0834	3.339375	0.001592	0.047297	-1.32437
ILMN_1793267	0.107352	6.14238	3.35162	0.001535	0.046067	-1.29172
ILMN_1773066	-0.10693	7.448939	-3.39876	0.001336	0.042702	-1.16537
ILMN_1698166	-0.10678	7.116865	-4.02243	0.000194	0.012553	0.599142
ILMN_3244526	0.106686	7.229915	3.406511	0.001305	0.042165	-1.14448
ILMN_1770667	-0.10665	7.11012	-3.65104	0.000624	0.027053	-0.47144
ILMN_1761828	0.106447	8.61968	3.621738	0.000682	0.028587	-0.5535
ILMN_1702231	-0.10625	6.19729	-3.35878	0.001503	0.045462	-1.27261
ILMN_1867321	0.106126	6.243638	4.930747	9.41E-06	0.001673	3.407302
ILMN_2166686	0.105796	6.072654	4.007556	0.000204	0.012947	0.555243
ILMN_1717337	-0.10572	10.11213	-3.86899	0.000317	0.017273	0.150263
ILMN_1775753	0.10554	6.932964	3.567036	0.000806	0.03191	-0.7057
ILMN_1788095	0.105261	6.731435	3.722433	0.000501	0.023352	-0.26993
ILMN_1749345	-0.10518	9.090378	-3.41393	0.001277	0.041531	-1.12448
ILMN_1735402	0.105141	7.127156	4.278508	8.47E-05	0.007087	1.366719
ILMN_1701655	0.105136	7.201903	3.812669	0.000378	0.019476	-0.01223
ILMN_1721344	-0.10505	6.880078	-3.64175	0.000642	0.027488	-0.49747
ILMN_1713406	0.105018	8.336282	3.920207	0.000269	0.015534	0.299118
ILMN_1767766	0.104824	9.131113	3.807658	0.000384	0.019694	-0.02662
ILMN_1811178	-0.10471	7.144893	-3.63926	0.000647	0.027631	-0.50448
ILMN_2083567	0.104483	6.215335	3.334859	0.001613	0.047559	-1.33639
ILMN_1673172	0.104229	6.986877	3.637125	0.000651	0.0277	-0.51045
ILMN_2352190	0.104157	6.39338	3.688705	0.000556	0.024798	-0.36539
ILMN_2412761	-0.10414	6.307542	-3.92087	0.000269	0.015534	0.301062
ILMN_1715175	-0.10405	9.658292	-3.40015	0.00133	0.042661	-1.16162
ILMN_3309468	0.10385	6.141024	4.500567	4.06E-05	0.00429	2.04898
ILMN_1766195	-0.10384	7.173367	-3.717	0.000509	0.023652	-0.28534
ILMN_1738883	-0.10366	6.05132	-3.61945	0.000687	0.028753	-0.5599
ILMN_1732705	0.103659	9.413949	3.860027	0.000326	0.017656	0.12433
ILMN_2150284	0.103456	7.344529	4.288491	8.20E-05	0.006902	1.397077
ILMN_1764873	-0.10329	5.920363	-3.76566	0.000438	0.021343	-0.1469
ILMN_1658144	-0.10323	7.851685	-4.67203	2.28E-05	0.00293	2.585089
ILMN_1730307	-0.10317	6.961192	-3.35584	0.001516	0.045753	-1.28047
ILMN_3247906	0.103035	8.076963	3.43884	0.001186	0.03959	-1.05708
ILMN_1688526	-0.10265	11.46092	-3.33296	0.001622	0.047632	-1.34145
ILMN_3236239	-0.10261	6.713216	-3.33514	0.001612	0.047559	-1.33563
ILMN_1684755	0.102469	6.098881	3.712874	0.000516	0.023889	-0.29704
ILMN_2327276	0.102459	10.67604	4.109121	0.000147	0.010521	0.856514
ILMN_2336109	0.102059	7.715795	4.129083	0.000138	0.010087	0.916146
ILMN_1682354	0.101986	6.46123	4.919535	9.78E-06	0.001712	3.371369
ILMN_1789575	-0.10181	6.965427	-4.29027	8.15E-05	0.006902	1.402486
ILMN_1722583	0.101468	7.463456	3.504267	0.000975	0.035332	-0.87869
ILMN_1689720	-0.10139	6.837395	-3.81371	0.000377	0.019442	-0.00923
ILMN_1745421	-0.10136	7.696077	-3.40653	0.001305	0.042165	-1.14444
ILMN_1688160	-0.10136	6.519732	-3.96819	0.000231	0.01406	0.439474
ILMN_1688853	0.101327	7.418838	4.18768	0.000114	0.008774	1.091972
ILMN_1666376	0.101309	7.528633	3.316112	0.001704	0.04894	-1.38618
ILMN_2396786	-0.10131	7.295269	-4.01067	0.000202	0.012866	0.564434
ILMN_1660577	-0.10115	11.44089	-3.64364	0.000638	0.027398	-0.49218
ILMN_1660232	0.101072	9.078017	3.323601	0.001667	0.048418	-1.36631
ILMN_1773080	-0.10104	12.90952	-3.5396	0.000876	0.033207	-0.78153

ILMN_1714623	0.101015	9.620491	3.662811	0.000602	0.026324	-0.43836
ILMN_2349459	0.10088	8.499249	3.348595	0.001549	0.046318	-1.2998
ILMN_1722532	-0.10088	7.896159	-3.68538	0.000561	0.024936	-0.37478
ILMN_2370464	0.100737	7.256077	3.314346	0.001713	0.04894	-1.39087
ILMN_3249501	0.100615	6.204479	4.164066	0.000123	0.009166	1.02098
ILMN_3238560	-0.10055	8.406128	-3.33944	0.001591	0.047297	-1.32419
ILMN_1689578	-0.10031	6.207657	-3.55639	0.000833	0.0324	-0.73517
ILMN_1685275	0.100293	5.555373	3.904271	0.000283	0.015964	0.252698
ILMN_1782094	-0.10027	7.267839	-4.02281	0.000194	0.012553	0.600251
ILMN_1668426	-0.10004	6.007205	-4.09431	0.000154	0.010901	0.812354
ILMN_2095133	0.100021	8.352404	4.03933	0.000184	0.012201	0.649103
ILMN_1726107	0.099957	7.107832	4.702159	2.06E-05	0.002748	2.680049
ILMN_2357086	0.099948	5.587509	3.398261	0.001338	0.042702	-1.1667
ILMN_1818617	0.09988	6.776722	3.360539	0.001495	0.045325	-1.2679
ILMN_1753370	0.099844	6.248383	4.126648	0.000139	0.01013	0.908865
ILMN_1719988	0.099841	6.098033	3.562142	0.000818	0.032056	-0.71925
ILMN_1677452	0.099558	8.020636	3.546757	0.000857	0.032877	-0.76178
ILMN_1778032	0.099459	8.78322	3.594463	0.000742	0.030188	-0.62955
ILMN_3246801	0.099006	6.258492	4.436944	5.02E-05	0.004955	1.852047
ILMN_1753575	0.098891	6.485391	3.876786	0.000309	0.016928	0.172866
ILMN_1781672	-0.09881	6.603638	-3.392	0.001363	0.043142	-1.18355
ILMN_1672042	0.098724	7.272439	3.410424	0.00129	0.041926	-1.13393
ILMN_2380801	0.098702	6.182506	3.510175	0.000957	0.035078	-0.86249
ILMN_1691980	-0.09862	6.551937	-3.4983	0.000992	0.035741	-0.89503
ILMN_2344079	0.09857	6.244167	3.840913	0.000346	0.018403	0.069108
ILMN_1803819	-0.09856	9.694341	-4.33494	7.03E-05	0.006282	1.53871
ILMN_1798659	-0.09851	8.113755	-3.38289	0.0014	0.043982	-1.20802
ILMN_1694486	-0.09839	6.609586	-3.98166	0.000222	0.013735	0.479006
ILMN_1671516	-0.09837	7.946452	-3.76597	0.000437	0.021343	-0.14601
ILMN_1660844	-0.09829	8.236984	-3.57318	0.000791	0.031501	-0.68866
ILMN_1699987	-0.09814	6.630318	-3.58789	0.000757	0.030654	-0.64783
ILMN_2098947	0.097789	6.221145	3.98461	0.000219	0.013631	0.487689
ILMN_1760682	0.09777	6.726168	3.586475	0.00076	0.030714	-0.65176
ILMN_1729188	0.097728	6.18162	3.316423	0.001702	0.04894	-1.38536
ILMN_1713732	0.097719	7.408825	3.513201	0.000949	0.034911	-0.85418
ILMN_1687751	0.097687	6.294353	3.40336	0.001318	0.042415	-1.15297
ILMN_2367141	0.097646	6.138928	4.486616	4.25E-05	0.004454	2.005701
ILMN_3307648	0.0975	10.48895	4.152398	0.000128	0.009459	0.985967
ILMN_1811301	0.097492	7.229325	4.025661	0.000192	0.012526	0.60868
ILMN_1670377	0.097453	6.558711	3.575401	0.000786	0.031452	-0.68251
ILMN_3194087	-0.09724	6.69329	-3.39717	0.001342	0.042762	-1.16965
ILMN_1796464	-0.09707	6.732443	-3.97836	0.000224	0.013806	0.46933
ILMN_1730631	0.097025	7.288177	3.647719	0.00063	0.027218	-0.48075
ILMN_1750008	0.09699	7.387539	3.46873	0.001084	0.03761	-0.97583
ILMN_1721241	0.096955	6.310762	3.82963	0.000358	0.018776	0.036578
ILMN_1676745	0.09691	7.911071	4.256767	9.10E-05	0.007431	1.300714
ILMN_1690761	0.09686	8.819047	3.88623	0.0003	0.016569	0.200264
ILMN_2052163	-0.09682	9.130896	-3.44622	0.00116	0.03905	-1.03707
ILMN_1722981	-0.09665	6.391925	-3.48958	0.001019	0.036364	-0.9189
ILMN_1722648	0.096607	10.1849	3.55266	0.000842	0.032579	-0.74548
ILMN_1844905	-0.09641	6.367295	-3.56443	0.000813	0.032053	-0.71292
ILMN_2161556	0.096378	6.790024	4.515731	3.86E-05	0.004141	2.096081
ILMN_2049417	0.096302	5.960285	3.513685	0.000947	0.034911	-0.85285
ILMN_2156953	-0.09594	7.779871	-4.53731	3.59E-05	0.003963	2.163221

ILMN_1694385	0.095808	11.85941	3.913619	0.000275	0.015619	0.279917
ILMN_1674698	0.095779	7.212241	4.085547	0.000159	0.011033	0.786263
ILMN_1698940	0.095768	13.88241	3.498004	0.000993	0.035741	-0.89585
ILMN_1688515	0.09567	7.727903	3.595389	0.00074	0.030187	-0.62698
ILMN_1812281	0.09549	5.969044	3.69548	0.000544	0.024713	-0.34626
ILMN_1713450	0.095469	9.115566	3.437299	0.001191	0.039657	-1.06126
ILMN_1652412	-0.09542	6.524361	-3.71248	0.000516	0.023889	-0.29815
ILMN_1792518	-0.09535	8.309534	-3.55593	0.000834	0.032408	-0.73643
ILMN_1738369	0.095124	10.02442	4.042827	0.000182	0.01217	0.659455
ILMN_2222317	-0.09496	7.504694	-3.9435	0.00025	0.014894	0.36713
ILMN_1710652	0.094928	6.22486	3.381187	0.001407	0.044059	-1.21259
ILMN_2290068	-0.09481	5.847125	-4.13847	0.000134	0.009854	0.944225
ILMN_1735792	-0.09481	7.183724	-4.41332	5.43E-05	0.005269	1.779216
ILMN_1803564	-0.0948	8.155443	-3.63507	0.000655	0.027737	-0.51621
ILMN_2402805	0.094731	7.960192	3.565411	0.00081	0.032031	-0.7102
ILMN_1671374	0.09456	9.250392	3.531371	0.000898	0.03384	-0.80421
ILMN_1688070	0.094556	7.090268	3.431278	0.001213	0.040162	-1.07757
ILMN_1738589	0.094555	6.429344	3.446435	0.001159	0.03905	-1.03648
ILMN_1753980	-0.09452	7.043688	-4.49934	4.07E-05	0.004294	2.045159
ILMN_2058512	-0.09435	8.228484	-3.73553	0.000481	0.022762	-0.23273
ILMN_1698680	0.094204	6.402033	4.091813	0.000156	0.010944	0.804916
ILMN_1796900	-0.09402	7.310991	-3.77876	0.00042	0.020724	-0.10947
ILMN_2363586	-0.09381	10.02952	-4.03585	0.000186	0.012254	0.638803
ILMN_1701604	-0.09366	6.390781	-3.57887	0.000778	0.031213	-0.67289
ILMN_1684258	-0.09362	13.89482	-4.84762	1.25E-05	0.001927	3.141521
ILMN_2412214	-0.09358	5.800786	-3.87785	0.000308	0.016904	0.175947
ILMN_1692948	-0.09354	7.616537	-3.93696	0.000255	0.015076	0.348031
ILMN_1713936	-0.09346	6.452103	-3.82175	0.000367	0.019072	0.013894
ILMN_1769191	0.093225	12.14777	3.515665	0.000942	0.034873	-0.84741
ILMN_1709026	-0.09312	6.763506	-3.42673	0.001229	0.040554	-1.08988
ILMN_1727880	0.093119	5.588242	3.516194	0.00094	0.034855	-0.84596
ILMN_1663489	-0.09301	7.630736	-3.92091	0.000269	0.015534	0.301156
ILMN_1656706	0.092822	5.463017	4.34745	6.75E-05	0.006091	1.576987
ILMN_1795711	0.092655	5.933911	3.896968	0.00029	0.016171	0.231457
ILMN_2147435	-0.0926	8.722297	-3.69223	0.00055	0.024798	-0.35543
ILMN_1663772	0.092454	6.030705	3.654784	0.000617	0.026811	-0.46092
ILMN_1840934	0.092274	6.305919	3.423421	0.001241	0.040845	-1.09883
ILMN_1732049	0.092268	7.307442	3.3788	0.001417	0.044216	-1.219
ILMN_1698404	-0.09227	6.749597	-3.39032	0.00137	0.043317	-1.18805
ILMN_3240962	0.092263	6.771073	3.5193	0.000931	0.034679	-0.83742
ILMN_1682062	0.092234	6.578357	3.546765	0.000857	0.032877	-0.76176
ILMN_2389151	-0.0922	10.55855	-3.38591	0.001388	0.043766	-1.19992
ILMN_1800447	-0.09187	8.299848	-4.12091	0.000142	0.010277	0.891718
ILMN_1791884	0.091862	6.724049	3.776533	0.000423	0.020838	-0.11583
ILMN_3248057	0.091861	6.076667	4.950503	8.79E-06	0.001614	3.470677
ILMN_1681798	0.091777	6.133635	3.65202	0.000622	0.027005	-0.46868
ILMN_2296843	0.091553	7.075077	3.341793	0.00158	0.047131	-1.31793
ILMN_2225887	0.091535	12.82245	3.81848	0.000371	0.019211	0.004479
ILMN_1661409	0.091431	6.498988	3.794714	0.0004	0.020061	-0.06377
ILMN_2153485	-0.09108	6.056836	-4.26476	8.86E-05	0.007286	1.324969
ILMN_1704398	0.090493	5.50716	3.766217	0.000437	0.021343	-0.1453
ILMN_1809212	-0.09037	6.2086	-3.63104	0.000663	0.028014	-0.52748
ILMN_2274531	0.09031	6.273664	3.929466	0.000262	0.015308	0.326134
ILMN_1741391	-0.09025	7.728987	-3.82714	0.000361	0.018895	0.029415

ILMN_3262348	0.090213	6.846546	3.628027	0.000669	0.028179	-0.53591
ILMN_1767111	0.089716	6.715365	3.452807	0.001137	0.038458	-1.01917
ILMN_1666019	0.089581	6.638663	3.670931	0.000587	0.025871	-0.41551
ILMN_2342579	0.089501	5.564237	3.482111	0.001042	0.036685	-0.93932
ILMN_1652819	0.089493	6.465272	3.467778	0.001087	0.037641	-0.97843
ILMN_1665060	-0.08948	6.251033	-3.44563	0.001162	0.03908	-1.03865
ILMN_3235168	0.089228	8.770873	3.321528	0.001677	0.048546	-1.37182
ILMN_1741398	0.089212	6.951261	3.470842	0.001078	0.037448	-0.97008
ILMN_1771238	-0.08904	7.869939	-4.01338	0.0002	0.012779	0.572436
ILMN_2193498	-0.08886	6.518431	-3.61054	0.000706	0.029332	-0.58475
ILMN_1677305	0.088838	7.166174	3.452696	0.001138	0.038458	-1.01947
ILMN_1661307	0.088734	5.799211	3.905069	0.000283	0.015964	0.255021
ILMN_2098616	-0.08859	6.798537	-3.33455	0.001614	0.047559	-1.3372
ILMN_1771738	-0.08848	7.554359	-3.50964	0.000959	0.035098	-0.86396
ILMN_1789535	0.088435	6.954984	4.221496	0.000102	0.008185	1.193952
ILMN_3238402	0.088432	5.941097	3.704776	0.000529	0.0243	-0.31997
ILMN_1680703	0.08834	10.15744	4.640918	2.53E-05	0.003133	2.48725
ILMN_1781001	-0.0881	6.255321	-3.34503	0.001565	0.046724	-1.30929
ILMN_1682335	-0.0879	6.310612	-3.68856	0.000556	0.024798	-0.36582
ILMN_2111918	-0.0879	8.222654	-3.30673	0.001751	0.04982	-1.41104
ILMN_1789618	-0.08776	6.918948	-3.43868	0.001186	0.03959	-1.05751
ILMN_2089340	-0.08776	6.555807	-3.5417	0.000871	0.033133	-0.77575
ILMN_1812898	0.087652	5.747437	3.437522	0.00119	0.039657	-1.06065
ILMN_2110496	-0.08759	6.781827	-4.29689	7.97E-05	0.006787	1.422636
ILMN_2280731	-0.08733	6.640289	-3.64107	0.000643	0.027512	-0.4994
ILMN_1765060	-0.08709	8.299388	-3.39352	0.001357	0.043027	-1.17946
ILMN_1729167	-0.08709	7.546048	-4.40317	5.61E-05	0.005419	1.747976
ILMN_1675055	0.086687	7.704113	3.919883	0.00027	0.015534	0.298174
ILMN_1683044	-0.08666	8.296903	-3.32379	0.001666	0.048418	-1.36582
ILMN_1656145	0.086635	10.027	3.355723	0.001517	0.045753	-1.28077
ILMN_1688435	-0.08655	6.027814	-3.66478	0.000598	0.026232	-0.43283
ILMN_1792860	0.086297	6.301839	4.089169	0.000157	0.010993	0.797044
ILMN_1672122	0.086186	5.998331	3.425486	0.001234	0.040665	-1.09324
ILMN_1743643	0.085852	6.202437	3.547171	0.000856	0.032877	-0.76064
ILMN_1688534	0.08559	7.514029	3.420846	0.001251	0.041004	-1.10579
ILMN_3289631	-0.0849	5.915389	-3.64618	0.000633	0.027241	-0.48506
ILMN_1706553	0.084638	9.101854	3.479934	0.001049	0.036887	-0.94527
ILMN_1718042	0.084435	6.34898	3.437144	0.001192	0.039657	-1.06168
ILMN_2081682	0.084345	7.750483	3.799961	0.000393	0.01988	-0.04872
ILMN_1719763	0.084344	5.881417	4.115445	0.000144	0.010394	0.875391
ILMN_1725175	-0.08425	6.93202	-4.19078	0.000113	0.008743	1.101295
ILMN_1698715	-0.08416	6.978506	-3.65688	0.000613	0.026706	-0.45502
ILMN_1739241	-0.08378	5.446943	-3.41563	0.00127	0.041439	-1.11989
ILMN_1739454	-0.08364	7.317376	-4.36706	6.33E-05	0.005854	1.637055
ILMN_1685125	0.083364	6.304599	4.206249	0.000107	0.008446	1.147927
ILMN_1727361	0.083351	8.569409	3.523255	0.00092	0.034417	-0.82655
ILMN_1893764	0.083263	6.633854	3.45882	0.001117	0.038166	-1.00282
ILMN_1790354	-0.08288	10.19535	-3.39948	0.001333	0.042678	-1.16343
ILMN_1673944	0.082811	10.05075	3.386617	0.001385	0.043715	-1.19801
ILMN_1723846	0.082361	7.409379	3.558781	0.000827	0.032266	-0.72855
ILMN_1722742	-0.08234	6.338646	-3.33293	0.001622	0.047632	-1.34152
ILMN_1715546	0.082067	6.674725	3.374367	0.001436	0.044352	-1.23088
ILMN_1828216	0.081858	6.239727	3.471035	0.001077	0.037448	-0.96955
ILMN_1726025	0.081766	7.314399	3.608685	0.00071	0.029463	-0.58994

ILMN_1651642	0.081748	6.414432	3.383956	0.001396	0.0439	-1.20516
ILMN_2279217	-0.08169	6.027258	-4.25998	9.00E-05	0.007371	1.310469
ILMN_1700048	0.081616	5.846974	3.522609	0.000922	0.034446	-0.82833
ILMN_1742923	0.081258	6.171055	3.427659	0.001226	0.040519	-1.08736
ILMN_1806310	-0.08126	5.994995	-3.38214	0.001403	0.043982	-1.21004
ILMN_1706959	0.081203	8.660833	3.552337	0.000843	0.032579	-0.74637
ILMN_1726930	-0.08109	7.077231	-3.83218	0.000356	0.018691	0.043915
ILMN_2141157	-0.08103	6.212235	-4.31096	7.61E-05	0.006596	1.46551
ILMN_1793615	-0.08099	5.851298	-3.46684	0.001091	0.037673	-0.98099
ILMN_1715181	0.080834	6.690597	3.483711	0.001037	0.036654	-0.93495
ILMN_1678627	0.080782	5.3752	4.266372	8.81E-05	0.007286	1.329856
ILMN_1692896	0.080746	6.625689	3.568255	0.000803	0.031902	-0.70232
ILMN_1735415	0.080736	7.315729	3.314233	0.001713	0.04894	-1.39117
ILMN_3297317	0.080418	13.90607	3.783083	0.000415	0.020575	-0.09709
ILMN_3245143	-0.08022	5.815494	-3.80461	0.000388	0.01978	-0.03537
ILMN_1776352	-0.08009	7.781603	-3.44382	0.001168	0.039253	-1.04356
ILMN_1774281	-0.08001	6.209842	-3.33091	0.001632	0.047848	-1.34688
ILMN_2197128	0.079973	6.431742	3.330231	0.001635	0.047848	-1.3487
ILMN_2177460	0.079857	6.285313	3.316432	0.001702	0.04894	-1.38534
ILMN_1769503	-0.07962	5.950628	-3.33759	0.0016	0.047389	-1.32912
ILMN_1698725	0.079448	6.157744	3.917272	0.000272	0.015534	0.290564
ILMN_3245893	-0.0793	6.436412	-3.46023	0.001112	0.038043	-0.99897
ILMN_1662334	0.079128	9.877035	4.099661	0.000152	0.010781	0.828299
ILMN_2366714	-0.07908	7.945501	-3.51268	0.00095	0.034911	-0.8556
ILMN_2049642	-0.07889	10.4411	-3.91907	0.00027	0.015534	0.2958
ILMN_1718898	0.078805	6.109315	3.590075	0.000752	0.030491	-0.64176
ILMN_1773716	0.078737	7.94473	3.423365	0.001242	0.040845	-1.09898
ILMN_2134224	0.078722	6.828101	3.848606	0.000338	0.018131	0.091317
ILMN_1782730	0.078428	6.297205	4.27458	8.58E-05	0.007145	1.354782
ILMN_1692486	0.078346	8.511366	3.801548	0.000391	0.019839	-0.04417
ILMN_1722771	-0.07816	5.778356	-3.54389	0.000865	0.033089	-0.76969
ILMN_3268590	0.077823	5.775323	3.516837	0.000938	0.034825	-0.84419
ILMN_1721628	0.077529	5.548135	3.353768	0.001526	0.045896	-1.28599
ILMN_2388965	0.077408	5.253054	4.08695	0.000158	0.011033	0.790439
ILMN_2124425	0.077408	5.376862	3.615942	0.000695	0.028957	-0.56968
ILMN_1676159	-0.07724	9.37641	-3.31593	0.001705	0.04894	-1.38667
ILMN_2390586	-0.07637	7.047253	-3.81925	0.00037	0.019194	0.006685
ILMN_1689029	-0.07601	6.564634	-3.43452	0.001201	0.03989	-1.06878
ILMN_1809094	-0.07597	6.7153	-3.46461	0.001098	0.037789	-0.98707
ILMN_1713454	0.07573	6.15932	3.432302	0.001209	0.040078	-1.07479
ILMN_1803094	0.075213	6.214764	3.5056	0.000971	0.035265	-0.87504
ILMN_1745668	-0.07454	5.787069	-3.78351	0.000414	0.020575	-0.09587
ILMN_1696826	0.074385	5.909971	4.184926	0.000115	0.008798	1.083682
ILMN_1737818	0.074303	7.595981	3.330799	0.001632	0.047848	-1.34719
ILMN_1806782	0.074235	6.27442	3.377609	0.001422	0.044289	-1.22219
ILMN_1705330	-0.0737	6.392187	-3.34973	0.001544	0.046203	-1.29675
ILMN_1761181	0.073293	5.857509	3.562204	0.000818	0.032056	-0.71908
ILMN_1792242	0.073257	5.673458	3.315421	0.001707	0.04894	-1.38802
ILMN_1712751	0.073132	7.449822	3.354747	0.001521	0.045804	-1.28337
ILMN_1801395	-0.07282	5.985178	-3.33039	0.001634	0.047848	-1.34828
ILMN_1699836	0.072332	5.569219	3.441598	0.001176	0.039438	-1.0496
ILMN_1715654	0.072229	6.159278	3.493423	0.001007	0.036049	-0.9084
ILMN_1748607	-0.07213	5.781067	-3.52367	0.000919	0.03441	-0.82539
ILMN_1713247	-0.07186	5.57309	-3.48722	0.001026	0.036495	-0.92537

ILMN_1689651	0.07114	5.329057	3.727953	0.000492	0.023093	-0.25427
ILMN_1799669	-0.07091	6.169469	-3.60346	0.000722	0.029718	-0.60451
ILMN_1676594	-0.07084	5.782597	-3.51472	0.000944	0.034911	-0.85001
ILMN_1789955	-0.07046	5.498019	-3.40629	0.001306	0.042165	-1.14506
ILMN_2410905	-0.07006	5.267522	-3.38672	0.001384	0.043715	-1.19773
ILMN_1696767	0.069905	5.26613	3.404329	0.001314	0.042371	-1.15036
ILMN_1815570	0.069839	6.374613	3.476571	0.001059	0.037034	-0.95445
ILMN_1767441	0.069765	6.13581	3.68844	0.000556	0.024798	-0.36614
ILMN_2209766	-0.06973	6.632917	-3.48457	0.001034	0.036639	-0.9326
ILMN_3300358	0.069564	6.250778	3.482501	0.00104	0.036679	-0.93826
ILMN_1728802	-0.06932	5.97848	-3.48819	0.001023	0.036431	-0.92272
ILMN_1887128	-0.06927	6.128285	-3.8509	0.000335	0.018029	0.097944
ILMN_1759312	-0.06919	5.296898	-3.40259	0.001321	0.042432	-1.15504
ILMN_2085446	0.06817	6.516636	3.3381	0.001598	0.047389	-1.32776
ILMN_1661002	-0.06753	9.235879	-3.52587	0.000913	0.034221	-0.81936
ILMN_1651498	0.066353	5.48707	3.320379	0.001683	0.048567	-1.37487
ILMN_3225014	0.066123	5.747072	3.42179	0.001247	0.040958	-1.10324
ILMN_1885908	-0.06612	5.936269	-3.58262	0.000769	0.031004	-0.66247
ILMN_1761844	0.066018	8.75912	3.485764	0.00103	0.036546	-0.92934
ILMN_1693319	-0.06332	5.331141	-3.46317	0.001103	0.037822	-0.99097
ILMN_2338849	-0.06286	5.81064	-3.59854	0.000733	0.030029	-0.61822
ILMN_1759801	0.062286	7.855688	3.456994	0.001123	0.038324	-1.00778
ILMN_2038773	-0.06124	14.04246	-3.33314	0.001621	0.047632	-1.34095
ILMN_2084912	-0.05984	5.261935	-3.4399	0.001182	0.03959	-1.05419
ILMN_3211262	0.059778	5.588309	3.351735	0.001535	0.046067	-1.29142
ILMN_1673042	0.059436	6.00835	3.618257	0.00069	0.028788	-0.56322
ILMN_2232084	-0.05891	6.062851	-3.64592	0.000634	0.027241	-0.48578
ILMN_2331501	-0.0583	14.14271	-3.45588	0.001127	0.038349	-1.01083
ILMN_1736234	0.055856	8.677606	3.471953	0.001074	0.037399	-0.96705

Supplementary Table S2. Genes showing significant concentration-dependent associations with levels of HPV16 E7 protein in the W12 clones.

	logFC	AveExpr	t	P.Value	adj.P.Val	B
ILMN_2133205	-0.69082	7.992169	-5.43423	1.63E-06	0.00066	5.034165
ILMN_1739513	0.604786	7.219708	8.736298	1.22E-11	4.21E-07	16.21005
ILMN_1744604	-0.58674	7.452409	-6.36858	5.80E-08	6.22E-05	8.197195
ILMN_2391861	-0.58146	8.151042	-4.66289	2.35E-05	0.003	2.51143
ILMN_1725139	0.565743	6.326501	7.513792	9.38E-10	6.47E-06	12.10954
ILMN_1773006	-0.55724	10.33058	-3.28438	0.001869	0.044572	-1.56481
ILMN_1705750	-0.44125	9.719861	-5.36966	2.04E-06	0.000741	4.818896
ILMN_1668134	-0.42785	6.914501	-3.33398	0.001617	0.040663	-1.43198
ILMN_1788874	0.411575	7.706951	4.320598	7.37E-05	0.006356	1.436105
ILMN_1658494	-0.40806	8.771834	-4.16641	0.000122	0.008526	0.963249
ILMN_1705080	-0.40105	8.187943	-4.27217	8.65E-05	0.006983	1.286749
ILMN_1772627	-0.38929	8.074501	-4.80845	1.43E-05	0.00235	2.978126
ILMN_1762255	-0.38743	7.106344	-3.23094	0.002183	0.049513	-1.70653
ILMN_1812403	-0.37152	9.949197	-4.95218	8.74E-06	0.001684	3.44371
ILMN_1682015	0.370871	8.023019	3.887879	0.000298	0.015374	0.130089
ILMN_1673639	-0.36746	7.225538	-4.70704	2.02E-05	0.002835	2.652426
ILMN_1671478	-0.36556	8.875751	-5.90923	3.01E-07	0.000206	6.633196
ILMN_2072178	0.33632	7.401153	4.915263	9.93E-06	0.001858	3.323705
ILMN_1680110	-0.33061	10.90965	-3.89325	0.000293	0.015188	0.145878
ILMN_1775814	-0.33047	8.011236	-3.61178	0.000703	0.024698	-0.66571
ILMN_1806754	0.328635	8.880934	3.417994	0.001262	0.034602	-1.20413
ILMN_1722670	-0.32843	7.524326	-3.53337	0.000893	0.028185	-0.88569
ILMN_3249032	0.323525	7.755069	4.622503	2.69E-05	0.00328	2.382873
ILMN_1699989	-0.3222	8.280026	-4.83682	1.30E-05	0.002206	3.069658
ILMN_1754241	0.320601	7.183669	3.920537	0.000269	0.014425	0.226278
ILMN_1705107	-0.30974	8.0672	-3.82376	0.000365	0.017052	-0.05756
ILMN_1790227	-0.30943	8.273254	-3.76294	0.000441	0.018974	-0.23398
ILMN_1693338	0.303947	8.093769	3.309336	0.001738	0.042499	-1.49813
ILMN_1766054	-0.30186	7.521938	-5.00198	7.36E-06	0.001515	3.606065
ILMN_1744765	-0.30137	11.11599	-3.4151	0.001273	0.03479	-1.21205
ILMN_2242463	0.29533	10.18413	5.304838	2.57E-06	0.00082	4.603435
ILMN_2096372	-0.2941	6.843431	-3.44507	0.001164	0.033106	-1.12997
ILMN_1690017	-0.29005	8.585352	-3.29798	0.001797	0.043525	-1.52852
ILMN_1735045	-0.28713	7.475736	-5.58536	9.54E-07	0.000439	5.540149
ILMN_1805665	-0.28221	9.899024	-4.77299	1.62E-05	0.002454	2.863952
ILMN_1737561	-0.28016	7.754604	-4.79629	1.49E-05	0.00235	2.93895
ILMN_2138765	0.279582	7.772094	6.150264	1.27E-07	0.000102	7.452398
ILMN_1666893	0.278934	6.466164	8.28675	5.95E-11	1.03E-06	14.7173
ILMN_2390919	-0.26961	7.823265	-4.84969	1.24E-05	0.002198	3.11126
ILMN_2304512	0.263785	8.426435	3.512194	0.000952	0.029398	-0.9446
ILMN_1713829	-0.26237	9.390348	-4.03236	0.000188	0.011595	0.558717
ILMN_2376723	-0.2572	9.075359	-5.29087	2.69E-06	0.00084	4.557095
ILMN_1651496	-0.25572	9.321274	-3.47469	0.001065	0.031169	-1.04844
ILMN_1696347	0.254268	9.758519	4.311322	7.60E-05	0.00644	1.407441
ILMN_1706015	-0.25198	7.100224	-3.33518	0.001611	0.0406	-1.42874
ILMN_1711087	-0.24569	8.94067	-5.58842	9.44E-07	0.000439	5.550431
ILMN_1774602	-0.24503	8.368134	-4.83402	1.31E-05	0.002206	3.060615
ILMN_1808590	0.244658	7.188088	3.810764	0.00038	0.017435	-0.09537
ILMN_1773337	-0.24373	11.82517	-4.07271	0.000165	0.010504	0.679826
ILMN_1789400	-0.23944	7.093376	-3.69495	0.000545	0.021487	-0.4294

ILMN_2214197	-0.23937	7.404584	-5.38227	1.95E-06	0.000724	4.860907
ILMN_1660067	0.239114	7.137712	4.83418	1.31E-05	0.002206	3.061129
ILMN_1667966	-0.23757	7.760319	-5.39507	1.87E-06	0.000716	4.903541
ILMN_1760990	-0.23727	6.710187	-5.28976	2.70E-06	0.00084	4.553421
ILMN_1776121	-0.23717	7.409774	-3.69834	0.000539	0.021346	-0.41968
ILMN_1798006	-0.23447	7.928236	-3.73458	0.000482	0.019833	-0.31574
ILMN_3244348	0.232543	8.046509	6.477717	3.92E-08	5.36E-05	8.570171
ILMN_1723123	-0.23142	10.92282	-5.38191	1.96E-06	0.000724	4.859691
ILMN_1751086	0.230311	9.493877	5.759145	5.15E-07	0.000306	6.125371
ILMN_3227023	-0.23002	9.465506	-5.6941	6.49E-07	0.000367	5.905962
ILMN_3234089	-0.22814	7.081691	-4.22294	0.000102	0.00739	1.135726
ILMN_1661599	-0.22804	11.56727	-4.24551	9.44E-05	0.007245	1.204875
ILMN_1743103	-0.2251	10.09195	-4.85508	1.22E-05	0.002169	3.128682
ILMN_3242586	-0.2251	6.789435	-3.67337	0.000582	0.022311	-0.49099
ILMN_1800130	-0.22448	7.260117	-4.68204	2.20E-05	0.002875	2.572544
ILMN_1799098	-0.22444	10.47357	-6.66432	2.00E-08	3.45E-05	9.208465
ILMN_3243156	-0.22431	10.01686	-5.94739	2.63E-07	0.000193	6.762596
ILMN_1800317	-0.2235	6.100468	-4.73142	1.86E-05	0.002686	2.730501
ILMN_3305614	-0.22337	6.399203	-3.95793	0.000239	0.013337	0.336928
ILMN_1695945	-0.2213	6.886069	-6.48123	3.87E-08	5.36E-05	8.582193
ILMN_1790100	0.219813	8.226173	5.730934	5.69E-07	0.000327	6.030154
ILMN_2160209	0.219491	6.731097	4.859042	1.20E-05	0.002151	3.141487
ILMN_1699651	0.21889	6.608253	3.239464	0.00213	0.048563	-1.68402
ILMN_1794742	-0.21841	8.365627	-4.45683	4.69E-05	0.004731	1.860089
ILMN_1700583	0.218227	9.328275	3.818623	0.000371	0.017189	-0.07251
ILMN_1721876	-0.21636	8.700419	-5.12289	4.84E-06	0.001192	4.002272
ILMN_1714108	-0.21597	7.661412	-5.62776	8.21E-07	0.000399	5.682634
ILMN_1777233	0.215541	8.912187	6.414197	4.92E-08	5.66E-05	8.353047
ILMN_1856480	-0.21465	7.171697	-3.95397	0.000242	0.01341	0.32518
ILMN_1749096	0.212726	6.532685	3.97445	0.000227	0.013051	0.385978
ILMN_1708934	-0.21218	11.66936	-4.5563	3.37E-05	0.00377	2.173058
ILMN_1693471	0.21188	8.402875	3.659053	0.000609	0.022886	-0.53176
ILMN_1781285	-0.20738	10.96082	-3.97081	0.000229	0.013128	0.375172
ILMN_1711069	-0.20737	9.757086	-4.36535	6.36E-05	0.005842	1.574779
ILMN_2095610	-0.20575	9.971736	-6.18361	1.13E-07	9.26E-05	7.566012
ILMN_1810725	-0.20455	7.339041	-4.12605	0.000139	0.009322	0.840803
ILMN_1799105	-0.20401	9.237549	-5.03218	6.63E-06	0.001469	3.704784
ILMN_2186983	-0.20334	10.29542	-5.87973	3.35E-07	0.000218	6.533227
ILMN_1678655	-0.20262	9.884598	-3.29778	0.001798	0.043525	-1.52904
ILMN_3224926	0.20202	8.871704	4.83587	1.30E-05	0.002206	3.066589
ILMN_3242004	-0.20153	9.102102	-5.68	6.82E-07	0.000373	5.858434
ILMN_3236858	-0.20108	6.435354	-3.82872	0.000359	0.01695	-0.04308
ILMN_1739450	-0.20096	9.157353	-6.31927	6.93E-08	6.64E-05	8.028776
ILMN_1788955	-0.20086	10.90429	-5.13789	4.60E-06	0.001173	4.051633
ILMN_1772910	-0.19989	8.398031	-4.43332	5.08E-05	0.004903	1.786511
ILMN_3306730	0.198534	8.639006	4.871314	1.15E-05	0.002095	3.181203
ILMN_1722834	-0.19831	8.939424	-4.69948	2.08E-05	0.002859	2.628261
ILMN_1759513	0.198056	10.91744	3.254032	0.002042	0.047308	-1.64547
ILMN_1675616	0.197984	6.875555	4.674844	2.26E-05	0.002935	2.549559
ILMN_1751161	-0.19614	10.99825	-4.41417	5.41E-05	0.00517	1.726716
ILMN_1770085	-0.19605	8.319791	-3.26564	0.001974	0.046396	-1.61468
ILMN_1657766	-0.19599	10.09657	-4.69623	2.10E-05	0.002859	2.617875
ILMN_1691476	-0.1953	7.248167	-3.41374	0.001278	0.034875	-1.21575
ILMN_1793017	-0.19524	7.235809	-6.33936	6.45E-08	6.35E-05	8.097384

ILMN_1696270	-0.1952	8.109972	-6.44449	4.42E-08	5.49E-05	8.456579
ILMN_2413816	0.194739	6.652781	4.318761	7.42E-05	0.006379	1.430427
ILMN_1705213	-0.19343	8.975996	-6.43922	4.50E-08	5.49E-05	8.438583
ILMN_1749109	-0.19245	11.15245	-6.46916	4.04E-08	5.36E-05	8.54091
ILMN_1790962	0.191401	6.6506	4.07715	0.000163	0.010374	0.693189
ILMN_1663080	-0.19126	8.308611	-5.00278	7.34E-06	0.001515	3.60869
ILMN_1791580	-0.19116	7.516767	-4.13949	0.000133	0.009067	0.881531
ILMN_1792679	0.190885	7.392167	5.616248	8.55E-07	0.00041	5.643927
ILMN_1672908	-0.19003	6.931672	-3.88584	0.0003	0.015385	0.124108
ILMN_1788192	-0.18993	6.735082	-4.17144	0.00012	0.008436	0.97857
ILMN_1729217	-0.18965	6.33715	-3.90235	0.000285	0.014932	0.172648
ILMN_1773959	0.189189	5.740913	7.359984	1.63E-09	9.37E-06	11.58599
ILMN_1731640	-0.18888	8.258374	-3.58377	0.000766	0.025767	-0.74462
ILMN_1686555	-0.18878	6.820999	-5.60347	8.95E-07	0.000423	5.600991
ILMN_1799106	0.188677	7.097389	5.035171	6.56E-06	0.001469	3.714553
ILMN_1685540	0.188063	7.832534	6.992856	6.12E-09	1.81E-05	10.3325
ILMN_1775114	-0.188	7.008211	-4.75929	1.69E-05	0.002506	2.819925
ILMN_1771841	0.187995	7.982244	3.41137	0.001287	0.035066	-1.22222
ILMN_2355559	-0.18768	11.20146	-5.51953	1.20E-06	0.000513	5.319404
ILMN_1678669	0.186617	7.8982	4.43909	4.98E-05	0.004864	1.804564
ILMN_1791912	-0.18606	8.240175	-5.52796	1.17E-06	0.000513	5.347627
ILMN_2365686	0.185661	9.254504	4.583386	3.07E-05	0.003615	2.258766
ILMN_1775883	-0.18527	6.818445	-3.78039	0.000418	0.018383	-0.1835
ILMN_1741755	-0.1847	9.953249	-5.34893	2.20E-06	0.000773	4.749915
ILMN_1709307	-0.18441	7.171161	-3.70652	0.000526	0.020981	-0.39628
ILMN_1651282	-0.18413	11.50699	-4.17091	0.00012	0.008436	0.97696
ILMN_2180371	0.183056	7.825553	4.364052	6.39E-05	0.005842	1.570734
ILMN_1778360	-0.18193	10.85475	-4.37546	6.15E-05	0.005671	1.606189
ILMN_1676361	-0.18146	7.368993	-5.37935	1.97E-06	0.000724	4.85116
ILMN_3248857	0.180974	6.346806	6.936005	7.51E-09	1.85E-05	10.13807
ILMN_1692938	0.180921	8.625168	5.423327	1.69E-06	0.000678	4.997764
ILMN_1669433	-0.1808	8.764554	-5.3225	2.41E-06	0.000807	4.662078
ILMN_1787265	-0.17995	8.776492	-4.12445	0.00014	0.009352	0.835972
ILMN_1886515	-0.17976	8.070173	-4.52877	3.69E-05	0.003964	2.086157
ILMN_2342437	0.179462	7.164944	5.106722	5.12E-06	0.001243	3.949136
ILMN_2330307	0.179246	7.789457	4.218577	0.000103	0.007459	1.122367
ILMN_1657111	-0.17843	10.45706	-4.69733	2.09E-05	0.002859	2.621369
ILMN_2125346	-0.17823	6.785924	-3.74013	0.000474	0.019682	-0.29977
ILMN_3251691	0.177897	7.470628	4.456043	4.71E-05	0.004731	1.857622
ILMN_1711994	0.177382	7.334314	5.234759	3.28E-06	0.000942	4.371233
ILMN_3233388	0.176453	8.969333	6.739198	1.53E-08	3.00E-05	9.464694
ILMN_2390974	-0.17632	9.158101	-5.10866	5.09E-06	0.001243	3.955506
ILMN_1704537	0.174733	9.658634	3.558423	0.000828	0.026893	-0.8157
ILMN_2376050	-0.17442	8.043913	-3.95766	0.000239	0.013337	0.336136
ILMN_1692026	0.17425	7.547477	7.133646	3.68E-09	1.59E-05	10.8137
ILMN_1671365	-0.17389	8.105262	-3.51116	0.000955	0.029437	-0.94748
ILMN_1749118	0.17385	6.735765	3.493218	0.001008	0.030417	-0.99722
ILMN_1680018	-0.17329	8.648107	-3.8779	0.000308	0.015586	0.100767
ILMN_1724139	0.172771	11.04195	5.130282	4.72E-06	0.001179	4.026586
ILMN_2326712	0.17267	7.108977	4.557986	3.35E-05	0.00377	2.178398
ILMN_3241441	-0.17242	6.992044	-4.47995	4.35E-05	0.004446	1.932592
ILMN_1809695	-0.17203	8.243369	-4.09578	0.000154	0.010009	0.749326
ILMN_1698732	0.171964	9.841955	4.398668	5.70E-05	0.005349	1.678395
ILMN_1664861	-0.17179	10.51662	-4.25603	9.12E-05	0.007161	1.237156

ILMN_3201453	0.17156	9.408963	4.976452	8.04E-06	0.001575	3.522787
ILMN_2131177	0.170944	6.861966	3.579755	0.000776	0.025861	-0.75589
ILMN_1690289	-0.17082	8.508461	-4.13944	0.000133	0.009067	0.881354
ILMN_1811195	-0.17078	6.387587	-6.00066	2.17E-07	0.000163	6.943471
ILMN_1732609	-0.17036	7.328232	-4.30722	7.71E-05	0.00648	1.394789
ILMN_1903021	-0.17026	6.660383	-4.92803	9.50E-06	0.00181	3.365175
ILMN_1754842	-0.17009	7.573756	-5.85803	3.62E-07	0.000231	6.459745
ILMN_1723412	-0.16989	8.099925	-4.09827	0.000152	0.009966	0.756831
ILMN_1737283	-0.16984	8.270082	-3.43375	0.001204	0.033496	-1.16102
ILMN_1797822	-0.16982	7.703849	-3.59817	0.000733	0.025232	-0.7041
ILMN_1788931	-0.16947	6.978091	-3.7668	0.000436	0.018842	-0.22282
ILMN_2087941	-0.16922	7.976439	-4.33884	6.94E-05	0.00617	1.492556
ILMN_1838942	0.168967	7.333424	3.626232	0.000673	0.024223	-0.62487
ILMN_2151281	-0.1688	7.544569	-3.64088	0.000644	0.023685	-0.58337
ILMN_1673522	0.168706	8.374233	6.962167	6.83E-09	1.81E-05	10.22755
ILMN_1685413	0.168322	9.058596	5.340976	2.26E-06	0.000787	4.723477
ILMN_1700310	-0.16806	6.956644	-3.32055	0.001682	0.04148	-1.46807
ILMN_1800091	0.167428	6.191857	6.115847	1.44E-07	0.000113	7.335192
ILMN_1865764	-0.16725	7.97774	-5.24706	3.14E-06	0.000933	4.411935
ILMN_1789775	0.167218	8.644515	4.804303	1.45E-05	0.00235	2.96475
ILMN_1801077	0.167033	6.694603	6.73163	1.57E-08	3.00E-05	9.438796
ILMN_1673543	0.16702	8.339837	6.300342	7.42E-08	6.91E-05	7.964174
ILMN_3305273	0.166488	7.434981	6.485871	3.80E-08	5.36E-05	8.59805
ILMN_2176502	-0.1662	6.956946	-4.09827	0.000152	0.009966	0.756842
ILMN_2404065	-0.16515	9.856242	-6.21103	1.02E-07	8.81E-05	7.659478
ILMN_2219466	0.16488	6.618042	4.044641	0.000181	0.011207	0.595524
ILMN_1706051	-0.16481	6.646429	-3.40728	0.001302	0.03535	-1.23338
ILMN_1673673	0.164412	7.439336	4.492771	4.16E-05	0.004324	1.972855
ILMN_2217935	0.164017	8.484241	6.213782	1.01E-07	8.81E-05	7.668869
ILMN_1738955	-0.1635	8.396592	-5.78486	4.70E-07	0.000284	6.212235
ILMN_1682402	0.163494	6.554808	7.152685	3.44E-09	1.59E-05	10.87874
ILMN_1679093	-0.16337	9.146616	-4.28094	8.40E-05	0.006881	1.313749
ILMN_3200421	0.163289	7.335807	5.135903	4.63E-06	0.001173	4.045081
ILMN_1781400	-0.1632	6.351035	-3.34121	0.001583	0.040178	-1.4125
ILMN_2209578	-0.16293	8.965183	-6.48365	3.83E-08	5.36E-05	8.590467
ILMN_3238707	0.162413	7.42062	5.662761	7.25E-07	0.000373	5.800397
ILMN_2158705	-0.16184	7.68826	-4.01645	0.000198	0.012009	0.511149
ILMN_2128967	-0.16154	9.231968	-3.88292	0.000303	0.015432	0.115507
ILMN_1669888	-0.16147	9.58316	-3.92999	0.000261	0.014176	0.254189
ILMN_1769451	0.16129	8.506642	6.994714	6.08E-09	1.81E-05	10.33885
ILMN_2401878	0.161226	8.20921	4.839888	1.29E-05	0.002206	3.079567
ILMN_3242883	-0.16121	8.583161	-5.66718	7.14E-07	0.000373	5.815265
ILMN_1781386	-0.1611	7.357152	-3.75741	0.000449	0.019184	-0.24994
ILMN_1683450	0.160863	9.802312	5.193307	3.79E-06	0.001045	4.234263
ILMN_2134039	0.159434	9.220499	3.585713	0.000762	0.025703	-0.73915
ILMN_1658426	-0.15894	6.566176	-3.84897	0.000337	0.016315	0.016023
ILMN_1707350	-0.1589	7.336674	-4.25202	9.24E-05	0.007221	1.224839
ILMN_1756541	-0.1586	8.567317	-5.03776	6.51E-06	0.001469	3.723021
ILMN_1772036	0.158129	6.536796	4.559152	3.33E-05	0.00377	2.182082
ILMN_1654262	-0.15806	8.417803	-4.54855	3.45E-05	0.003854	2.148588
ILMN_1667295	-0.15754	7.862332	-3.47766	0.001056	0.031069	-1.04024
ILMN_1748352	-0.15739	11.41013	-3.79721	0.000397	0.017953	-0.13477
ILMN_1775405	-0.15729	9.581759	-4.54356	3.51E-05	0.003881	2.132827
ILMN_1778543	0.157284	8.784348	4.260866	8.97E-05	0.007096	1.25201

ILMN_2214678	-0.15721	7.753444	-3.24548	0.002093	0.048075	-1.66812
ILMN_2072622	0.157172	9.12022	4.198378	0.00011	0.007858	1.060656
ILMN_2357134	0.156518	7.806797	3.527337	0.000909	0.028593	-0.90249
ILMN_2401873	0.156332	8.387228	4.104447	0.000149	0.009825	0.775486
ILMN_1671404	0.156071	9.585143	3.870029	0.000316	0.015838	0.077687
ILMN_1715684	-0.15592	9.932007	-3.56071	0.000822	0.026754	-0.80929
ILMN_1655622	0.155651	9.877114	4.797425	1.49E-05	0.00235	2.94259
ILMN_1712888	-0.15557	10.95199	-3.3531	0.001529	0.0393	-1.38043
ILMN_1802205	-0.15557	9.479563	-3.81933	0.00037	0.017174	-0.07044
ILMN_3235404	0.155367	7.050826	5.382649	1.95E-06	0.000724	4.862154
ILMN_2121816	-0.1549	6.828963	-5.92802	2.82E-07	0.000202	6.696901
ILMN_1663866	-0.15472	12.16059	-3.51728	0.000937	0.029134	-0.93048
ILMN_1716026	-0.15454	7.359713	-5.03064	6.67E-06	0.001469	3.699736
ILMN_1678922	-0.15433	8.85559	-4.4271	5.18E-05	0.004991	1.767087
ILMN_2413898	0.153064	8.123873	4.091501	0.000156	0.010072	0.736422
ILMN_1669703	-0.15303	8.590866	-5.21128	3.56E-06	0.000997	4.29362
ILMN_1682038	0.152626	8.374774	5.274188	2.86E-06	0.000871	4.501779
ILMN_1685580	-0.15249	7.69523	-5.92334	2.87E-07	0.000202	6.681021
ILMN_1665775	0.152172	6.339835	3.715604	0.000511	0.020688	-0.37024
ILMN_2413899	0.151897	6.61334	4.608783	2.82E-05	0.0034	2.339299
ILMN_1778087	-0.15175	12.66377	-4.56805	3.23E-05	0.003718	2.21022
ILMN_1708672	0.15109	9.817585	3.752235	0.000456	0.019328	-0.26488
ILMN_1696713	0.150861	7.818523	5.154864	4.33E-06	0.00114	4.107506
ILMN_1712305	-0.15068	9.841136	-3.33095	0.001631	0.040776	-1.44011
ILMN_1710284	-0.15068	8.130457	-3.43157	0.001212	0.033552	-1.167
ILMN_1729225	-0.1505	6.254295	-4.30285	7.82E-05	0.00651	1.381284
ILMN_2229379	-0.15049	6.13363	-3.40129	0.001326	0.035568	-1.2497
ILMN_3247848	-0.15014	6.89447	-4.59558	2.95E-05	0.003505	2.297401
ILMN_1694840	-0.15003	7.088939	-3.65641	0.000614	0.022995	-0.53928
ILMN_3250268	0.149967	7.791705	4.080781	0.000161	0.010291	0.70412
ILMN_1763907	0.149787	10.09857	5.881885	3.32E-07	0.000218	6.540521
ILMN_1774685	0.149769	6.321316	4.344314	6.82E-05	0.006106	1.509511
ILMN_1810942	-0.1497	6.842908	-3.49241	0.00101	0.030438	-0.99947
ILMN_1682165	-0.14956	9.81225	-4.01714	0.000198	0.012004	0.513196
ILMN_1805828	0.148963	8.975599	4.704549	2.04E-05	0.002847	2.644465
ILMN_1657708	-0.14885	6.507068	-3.34318	0.001574	0.040075	-1.40718
ILMN_2217809	0.14768	9.865297	3.739592	0.000475	0.019688	-0.30131
ILMN_1760620	0.147482	7.638822	5.459609	1.49E-06	0.000611	5.118913
ILMN_2380588	0.147387	8.905956	5.521962	1.19E-06	0.000513	5.327534
ILMN_1668629	-0.14715	9.24065	-3.58448	0.000765	0.025761	-0.74263
ILMN_1809866	0.146879	8.354651	4.989749	7.68E-06	0.001531	3.566154
ILMN_1664369	0.146224	6.806388	5.00212	7.36E-06	0.001515	3.606532
ILMN_1800412	-0.14598	7.86545	-7.84265	2.89E-10	2.49E-06	13.22439
ILMN_1682738	-0.14562	8.942544	-4.35279	6.63E-05	0.005984	1.535802
ILMN_1669479	0.145339	7.352698	3.886307	0.0003	0.015385	0.125467
ILMN_1759419	0.145267	8.841508	6.045602	1.85E-07	0.000142	7.0962
ILMN_1794914	-0.14514	7.949059	-4.30191	7.84E-05	0.00651	1.378372
ILMN_1711314	0.145106	9.227916	4.43504	5.05E-05	0.004896	1.791903
ILMN_1731433	-0.14429	6.346302	-3.85397	0.000332	0.016239	0.030659
ILMN_1726839	0.144183	10.39428	4.06322	0.000171	0.01075	0.651294
ILMN_1725193	-0.144	10.1647	-6.36167	5.95E-08	6.22E-05	8.173573
ILMN_1782403	0.143901	7.30588	4.576613	3.14E-05	0.00367	2.237319
ILMN_1685722	-0.14378	11.69208	-5.02326	6.84E-06	0.001483	3.675585
ILMN_1693630	-0.14376	6.773813	-3.63516	0.000655	0.023869	-0.59958

ILMN_1810392	0.143717	7.699965	4.916121	9.90E-06	0.001858	3.32649
ILMN_1681249	-0.1436	8.864681	-5.66919	7.09E-07	0.000373	5.822042
ILMN_1744211	-0.14349	6.010109	-3.92264	0.000267	0.014374	0.23249
ILMN_1683127	0.143341	9.525091	3.332825	0.001623	0.040674	-1.43508
ILMN_1733519	0.143145	7.128569	5.31953	2.44E-06	0.000808	4.652212
ILMN_1796417	0.143136	8.302821	4.688061	2.16E-05	0.00287	2.591759
ILMN_1656482	-0.14267	8.367446	-4.64741	2.48E-05	0.003081	2.462092
ILMN_1719938	0.142397	6.741639	4.097019	0.000153	0.009988	0.753065
ILMN_2371055	-0.14236	10.52178	-4.91392	9.97E-06	0.001858	3.319338
ILMN_2166524	0.142351	7.416898	4.842202	1.28E-05	0.002206	3.087044
ILMN_1765109	-0.14229	8.299028	-3.85024	0.000336	0.016288	0.019744
ILMN_2224657	0.141857	6.722118	3.499253	0.000989	0.030107	-0.9805
ILMN_2124352	0.141684	10.23923	4.270792	8.69E-05	0.006983	1.282523
ILMN_1695386	0.141533	8.615201	7.069179	4.65E-09	1.78E-05	10.59342
ILMN_2214910	-0.1415	8.086097	-3.96892	0.000231	0.013128	0.369559
ILMN_1809344	-0.14144	8.703744	-6.18943	1.10E-07	9.26E-05	7.585849
ILMN_2287653	-0.14067	6.690452	-4.69041	2.14E-05	0.00287	2.599276
ILMN_1784847	0.140526	7.592238	5.158274	4.28E-06	0.001135	4.118739
ILMN_1773906	-0.14038	11.75633	-4.76022	1.69E-05	0.002506	2.822902
ILMN_2203588	-0.14027	6.67429	-4.69825	2.08E-05	0.002859	2.624321
ILMN_1651346	-0.13997	6.717753	-4.52618	3.72E-05	0.003986	2.078007
ILMN_1678671	-0.13987	7.812516	-3.60326	0.000722	0.025018	-0.68974
ILMN_2134974	0.139836	10.82826	3.239887	0.002127	0.048536	-1.6829
ILMN_2348050	0.139666	9.946905	3.96914	0.000231	0.013128	0.370199
ILMN_2062701	-0.13922	7.849424	-3.53939	0.000877	0.027932	-0.8689
ILMN_1775522	-0.13888	9.771732	-5.24958	3.11E-06	0.000933	4.420277
ILMN_3306482	0.138855	10.27699	3.644426	0.000637	0.023549	-0.57332
ILMN_3233229	-0.13879	7.717482	-4.75466	1.72E-05	0.002529	2.80505
ILMN_1803194	0.138674	8.461656	5.353379	2.16E-06	0.000769	4.764725
ILMN_1779677	-0.13867	7.562899	-3.44063	0.001179	0.033218	-1.14216
ILMN_2404063	-0.13852	9.331987	-6.68381	1.86E-08	3.38E-05	9.275155
ILMN_1732967	-0.13843	8.497603	-5.03532	6.56E-06	0.001469	3.715027
ILMN_1770206	0.138378	9.242454	6.593717	2.58E-08	4.23E-05	8.966905
ILMN_1731349	-0.13828	6.896797	-3.36411	0.00148	0.038388	-1.35065
ILMN_2414533	-0.13819	7.051803	-5.19975	3.70E-06	0.00103	4.255521
ILMN_1719344	-0.13802	8.761622	-4.33206	7.10E-05	0.006248	1.47157
ILMN_2409220	0.137836	9.171432	3.376778	0.001426	0.03743	-1.31634
ILMN_2297626	0.137796	7.303479	3.294644	0.001814	0.043772	-1.53743
ILMN_1803018	-0.13777	8.220185	-4.37754	6.11E-05	0.005647	1.612654
ILMN_1744835	0.137732	11.05111	4.597184	2.93E-05	0.003499	2.302496
ILMN_2103397	-0.13764	6.499243	-5.00804	7.21E-06	0.001515	3.625858
ILMN_1723971	0.137599	8.306865	3.794034	0.000401	0.01801	-0.14397
ILMN_2079285	-0.13755	9.10756	-3.57024	0.000798	0.026314	-0.78259
ILMN_3237385	-0.13732	8.080546	-5.10481	5.16E-06	0.001243	3.94287
ILMN_1730824	0.137295	7.513409	4.136144	0.000135	0.009129	0.871375
ILMN_1742577	0.13725	10.20435	4.865068	1.18E-05	0.002118	3.160985
ILMN_2334760	-0.13708	6.781816	-3.49614	0.000999	0.03026	-0.98914
ILMN_1711005	0.136866	7.497246	3.885578	0.000301	0.015385	0.123327
ILMN_1797236	-0.13677	6.569355	-3.821	0.000368	0.017154	-0.06557
ILMN_1667319	-0.1366	6.22959	-4.53741	3.59E-05	0.003912	2.113413
ILMN_1903914	0.136455	7.610041	3.330797	0.001632	0.040776	-1.44053
ILMN_2074044	0.136381	7.061313	4.131127	0.000137	0.009224	0.856174
ILMN_1739805	-0.13634	8.701651	-4.80755	1.44E-05	0.00235	2.975208
ILMN_1694106	0.135857	7.791195	3.65844	0.00061	0.022901	-0.53351

ILMN_1796013	0.135659	7.230507	5.029747	6.69E-06	0.001469	3.69681
ILMN_1736327	0.135512	7.254208	3.43222	0.001209	0.033515	-1.16521
ILMN_1716869	-0.13548	6.670323	-4.56076	3.32E-05	0.00377	2.187161
ILMN_1770641	-0.13528	6.005746	-4.93417	9.30E-06	0.001782	3.385125
ILMN_3246206	0.135101	7.060914	3.334752	0.001613	0.0406	-1.42989
ILMN_2082324	0.135069	7.349485	6.780015	1.32E-08	2.84E-05	9.604368
ILMN_2045994	-0.13465	8.174052	-5.28473	2.75E-06	0.000847	4.536723
ILMN_1766658	0.134502	8.098891	4.480062	4.34E-05	0.004446	1.932937
ILMN_2225718	0.13449	7.499277	3.923445	0.000267	0.014374	0.234865
ILMN_2061565	-0.1344	8.34587	-4.45298	4.75E-05	0.004752	1.848028
ILMN_2140700	-0.13424	6.757813	-5.32258	2.41E-06	0.000807	4.662343
ILMN_1726104	0.134232	8.323975	4.414014	5.41E-05	0.00517	1.726236
ILMN_1718972	0.134151	8.220588	4.912736	1.00E-05	0.001858	3.315499
ILMN_1698189	0.13412	8.283864	5.123158	4.84E-06	0.001192	4.003157
ILMN_2344850	-0.13386	10.71219	-6.34387	6.34E-08	6.35E-05	8.112808
ILMN_1660341	-0.13386	8.027969	-4.69	2.14E-05	0.00287	2.59794
ILMN_1666376	-0.13345	7.528633	-6.24549	9.03E-08	8.20E-05	7.77701
ILMN_1795336	0.13325	5.682205	3.744821	0.000467	0.019597	-0.28625
ILMN_1714170	-0.13286	7.992532	-3.76435	0.000439	0.018915	-0.22992
ILMN_1724493	0.132792	8.164774	3.661776	0.000604	0.022767	-0.52402
ILMN_2135984	0.132714	6.588567	3.865031	0.000321	0.015997	0.063041
ILMN_1717326	-0.13227	6.720387	-3.93917	0.000254	0.013842	0.28135
ILMN_1666599	0.132237	7.265358	4.581722	3.09E-05	0.003623	2.253495
ILMN_1832208	0.132046	9.540907	4.738401	1.82E-05	0.002634	2.752887
ILMN_1806809	-0.13201	6.996511	-5.14908	4.42E-06	0.001146	4.088467
ILMN_3274596	-0.13199	10.58903	-4.51368	3.88E-05	0.004079	2.03864
ILMN_2326509	0.131876	8.811935	4.058724	0.000173	0.010808	0.637788
ILMN_1717990	0.131724	7.262928	3.503694	0.000976	0.029813	-0.96819
ILMN_1671791	0.131708	7.469116	3.957201	0.000239	0.013337	0.334761
ILMN_3298716	0.131705	6.642078	3.854134	0.000332	0.016239	0.031134
ILMN_1712400	0.131687	8.876375	3.973425	0.000227	0.013051	0.382931
ILMN_1756595	-0.13147	7.482138	-3.24862	0.002074	0.047831	-1.65981
ILMN_1710622	-0.13124	7.914403	-3.60441	0.000719	0.024955	-0.6865
ILMN_1655876	-0.13119	7.946876	-3.87916	0.000307	0.01557	0.104485
ILMN_1773567	-0.13111	11.08087	-3.30075	0.001782	0.043302	-1.5211
ILMN_3263702	0.131029	6.359064	4.364794	6.37E-05	0.005842	1.573039
ILMN_1709483	0.130638	7.580603	5.078289	5.65E-06	0.001335	3.8558
ILMN_1669323	0.130574	7.255136	3.90671	0.000281	0.014795	0.185501
ILMN_1680579	-0.13049	8.39294	-4.43574	5.04E-05	0.004896	1.794088
ILMN_1788166	0.130487	8.675036	4.409128	5.50E-05	0.005225	1.710996
ILMN_1797332	0.130393	8.23721	3.752921	0.000455	0.019311	-0.2629
ILMN_2414399	0.130313	7.24565	5.019535	6.93E-06	0.001483	3.663423
ILMN_1745034	0.130045	8.710431	4.412001	5.45E-05	0.00519	1.719958
ILMN_2150402	0.129949	6.642874	4.787714	1.54E-05	0.002396	2.911323
ILMN_1655557	-0.12926	8.6097	-3.71113	0.000518	0.020853	-0.38305
ILMN_1669831	0.129228	7.643488	6.779613	1.32E-08	2.84E-05	9.602993
ILMN_2404182	-0.12898	7.265849	-4.84378	1.27E-05	0.002206	3.09215
ILMN_1678678	-0.12889	8.497363	-3.32119	0.001679	0.04148	-1.46633
ILMN_1815121	0.128888	6.009127	4.223343	0.000101	0.00739	1.136949
ILMN_1759023	-0.12882	6.831852	-3.73925	0.000475	0.019688	-0.3023
ILMN_2285375	0.128498	8.553091	3.588041	0.000756	0.025664	-0.73261
ILMN_2151056	-0.12847	7.826808	-4.75403	1.72E-05	0.002529	2.803054
ILMN_2148150	0.128045	6.811128	3.578095	0.00078	0.025917	-0.76055
ILMN_3246538	-0.12801	6.830278	-3.84652	0.00034	0.01641	0.008878

ILMN_1665372	-0.12798	6.998521	-4.19295	0.000112	0.007949	1.044087
ILMN_1748476	0.127974	10.8424	5.14922	4.42E-06	0.001146	4.088917
ILMN_1657697	-0.12791	9.858753	-4.83498	1.31E-05	0.002206	3.063705
ILMN_1717674	-0.12761	9.362655	-3.96807	0.000231	0.013138	0.367015
ILMN_1796589	0.127568	9.182448	4.265463	8.84E-05	0.007039	1.266136
ILMN_1735052	-0.12751	8.102006	-3.6614	0.000604	0.022769	-0.5251
ILMN_1759818	-0.12736	7.741005	-3.54826	0.000853	0.027472	-0.84413
ILMN_1667893	-0.12724	8.518279	-3.32169	0.001676	0.04148	-1.46499
ILMN_1657373	-0.12706	9.93256	-3.31317	0.001719	0.042205	-1.48787
ILMN_2398107	0.126453	7.265734	5.561625	1.04E-06	0.000471	5.460498
ILMN_1777564	0.126416	10.34518	4.686447	2.17E-05	0.00287	2.586605
ILMN_1670353	0.126202	9.008403	3.895258	0.000291	0.015163	0.151785
ILMN_1799128	0.126116	9.232999	5.018451	6.96E-06	0.001483	3.659881
ILMN_1758915	0.12603	8.708471	4.801578	1.47E-05	0.00235	2.955968
ILMN_1713764	-0.12573	6.910495	-4.31311	7.56E-05	0.006438	1.412951
ILMN_2305112	0.125701	6.280871	6.979482	6.42E-09	1.81E-05	10.28676
ILMN_1815723	0.125541	8.40545	4.804234	1.45E-05	0.00235	2.964527
ILMN_1704793	-0.12528	8.555961	-4.2939	8.05E-05	0.006641	1.353671
ILMN_1703324	0.125235	7.840373	3.850882	0.000335	0.016288	0.021622
ILMN_1784871	0.125199	10.97356	3.416083	0.001269	0.034716	-1.20936
ILMN_2085525	0.125178	7.593519	4.701681	2.06E-05	0.002852	2.635294
ILMN_1776337	0.125156	8.179413	3.534365	0.00089	0.028141	-0.88291
ILMN_1811472	0.124959	8.848215	3.522106	0.000924	0.028843	-0.91705
ILMN_1700507	-0.12492	9.003335	-3.22733	0.002206	0.049867	-1.71604
ILMN_1789510	0.124793	9.487129	3.317421	0.001697	0.041801	-1.47646
ILMN_2367753	-0.12462	8.28046	-3.61961	0.000687	0.024514	-0.64359
ILMN_1749930	0.124601	7.864206	5.18529	3.90E-06	0.001066	4.20781
ILMN_1669981	-0.12436	6.921259	-4.79146	1.52E-05	0.002378	2.923371
ILMN_1725366	0.124297	6.520463	3.67845	0.000573	0.022063	-0.47652
ILMN_1801939	0.12393	9.923411	3.578857	0.000778	0.025882	-0.75841
ILMN_1772702	0.123745	9.274788	4.542376	3.53E-05	0.003884	2.129089
ILMN_3300198	-0.12362	7.088251	-3.5916	0.000748	0.025573	-0.72259
ILMN_1735762	-0.12357	6.867633	-4.23122	9.89E-05	0.007317	1.161052
ILMN_1698209	0.12352	8.592883	4.820632	1.37E-05	0.002288	3.017399
ILMN_1659888	0.123509	10.85665	3.615337	0.000696	0.024558	-0.65567
ILMN_1808777	-0.12342	8.520059	-3.87314	0.000313	0.015707	0.086811
ILMN_1759595	-0.12311	7.280271	-8.15814	9.39E-11	1.08E-06	14.28667
ILMN_1897310	-0.12299	8.603914	-5.06404	5.94E-06	0.001384	3.809071
ILMN_2246510	-0.12298	7.998613	-3.63245	0.00066	0.02392	-0.60726
ILMN_2408645	0.122937	8.748486	5.837429	3.90E-07	0.000244	6.389998
ILMN_1810228	0.122751	8.282954	4.765739	1.66E-05	0.002483	2.84065
ILMN_2377185	-0.12267	8.479248	-3.48743	0.001025	0.030581	-1.01324
ILMN_1709085	0.122619	6.344561	4.248314	9.35E-05	0.007224	1.213468
ILMN_1791002	0.122602	7.781896	3.424377	0.001238	0.03413	-1.18668
ILMN_3245983	-0.12257	7.955008	-3.33142	0.001629	0.040776	-1.43886
ILMN_1748438	0.122513	10.48076	4.605514	2.85E-05	0.003425	2.328924
ILMN_2411139	0.122289	6.792351	4.104767	0.000149	0.009825	0.776452
ILMN_1787815	0.122248	7.582959	3.751744	0.000457	0.019334	-0.2663
ILMN_2324056	0.122215	9.370995	3.715225	0.000512	0.020688	-0.37133
ILMN_1651347	-0.12219	9.178162	-5.40189	1.82E-06	0.000707	4.926274
ILMN_2143795	0.122172	10.18029	3.955019	0.000241	0.0134	0.328291
ILMN_1759252	-0.12198	10.14331	-4.9109	1.01E-05	0.001858	3.309549
ILMN_1768662	0.12194	7.893578	4.270014	8.71E-05	0.006983	1.28013
ILMN_1672022	-0.12182	6.385237	-3.41009	0.001292	0.035145	-1.22573

ILMN_3240370	0.121802	7.789924	3.650199	0.000625	0.023311	-0.55693
ILMN_2111187	0.121653	8.370281	3.875261	0.00031	0.01567	0.093035
ILMN_1794132	0.121519	11.12478	3.962679	0.000235	0.01326	0.351014
ILMN_1710752	0.121472	8.511522	4.511958	3.90E-05	0.004079	2.033204
ILMN_1712803	0.12145	9.548288	5.181403	3.95E-06	0.001072	4.194985
ILMN_2090782	0.121389	8.613408	3.337136	0.001602	0.040464	-1.42347
ILMN_2195821	-0.12131	7.004528	-3.4791	0.001051	0.031057	-1.03626
ILMN_3251737	-0.12125	8.954101	-3.48891	0.001021	0.030581	-1.00914
ILMN_1798288	-0.12077	7.041444	-5.04271	6.40E-06	0.001469	3.739217
ILMN_1801934	-0.12061	7.979874	-3.25541	0.002034	0.047268	-1.64183
ILMN_1695475	-0.12053	8.116216	-3.59914	0.000731	0.025207	-0.70136
ILMN_1689059	-0.12047	7.465566	-3.7792	0.00042	0.018405	-0.18697
ILMN_1770665	-0.12034	6.553793	-5.04003	6.45E-06	0.001469	3.73044
ILMN_2080611	0.120276	8.138755	3.803647	0.000389	0.017716	-0.11606
ILMN_1764729	-0.12027	8.524975	-4.24911	9.33E-05	0.007224	1.215926
ILMN_1740185	-0.12025	8.250801	-3.5081	0.000963	0.029551	-0.95596
ILMN_1770692	0.120115	9.212045	4.262789	8.92E-05	0.007073	1.25792
ILMN_1751776	0.119999	9.023057	4.538712	3.57E-05	0.003907	2.117527
ILMN_1791568	0.119972	7.620488	4.241564	9.56E-05	0.007252	1.192764
ILMN_2243308	-0.11992	8.15554	-4.76939	1.64E-05	0.002474	2.852374
ILMN_1779353	0.119768	8.683327	3.434112	0.001202	0.033496	-1.16003
ILMN_2356955	0.119737	6.470147	5.015326	7.03E-06	0.001487	3.649667
ILMN_2319910	-0.11973	7.843609	-4.65401	2.42E-05	0.003035	2.483141
ILMN_1717809	-0.11972	6.697764	-4.33978	6.92E-05	0.006167	1.495464
ILMN_1684108	-0.11969	9.051949	-3.24986	0.002067	0.047755	-1.65652
ILMN_2235137	0.119676	8.759065	3.483268	0.001038	0.030827	-1.02475
ILMN_1790577	0.119657	8.636033	3.252131	0.002053	0.047505	-1.65051
ILMN_1805271	-0.11965	8.035721	-4.86795	1.17E-05	0.002108	3.170315
ILMN_1677098	-0.11938	6.765281	-4.26875	8.75E-05	0.006995	1.276255
ILMN_1838313	0.119202	7.675533	3.631866	0.000662	0.02392	-0.60892
ILMN_1696601	0.119145	8.966241	5.306681	2.55E-06	0.00082	4.609549
ILMN_1732772	0.11908	8.220642	4.999578	7.42E-06	0.001515	3.598232
ILMN_1744138	-0.119	9.242957	-5.46305	1.47E-06	0.000611	5.13042
ILMN_1682197	0.118915	7.729661	4.837027	1.30E-05	0.002206	3.070325
ILMN_1814282	0.118868	8.293627	3.68659	0.000559	0.021735	-0.45328
ILMN_1654385	0.118742	6.037032	4.482789	4.30E-05	0.00443	1.941499
ILMN_1692665	-0.11857	6.993973	-4.33262	7.09E-05	0.006248	1.473303
ILMN_1665526	-0.1184	6.424292	-3.64518	0.000635	0.02352	-0.57116
ILMN_1754149	-0.11832	8.468935	-3.81494	0.000375	0.017296	-0.08322
ILMN_1673721	0.118146	7.484523	3.885196	0.000301	0.015385	0.122203
ILMN_1728714	0.118075	6.99978	3.322234	0.001674	0.04148	-1.46354
ILMN_2077094	0.11805	8.705853	3.461759	0.001107	0.031917	-1.08408
ILMN_1768004	-0.11801	8.515974	-5.792	4.58E-07	0.000282	6.236372
ILMN_2285996	0.117685	10.78016	4.49281	4.16E-05	0.004324	1.972977
ILMN_1712413	0.117647	8.579679	3.974109	0.000227	0.013051	0.384962
ILMN_1667361	-0.11759	6.543923	-5.25559	3.05E-06	0.000922	4.440172
ILMN_1695271	0.117399	8.107913	4.96635	8.33E-06	0.001622	3.489867
ILMN_1656463	0.117398	8.129104	4.800408	1.47E-05	0.00235	2.9522
ILMN_2112460	0.117384	7.469196	5.680739	6.80E-07	0.000373	5.860937
ILMN_1805737	0.117376	9.318393	3.234463	0.002161	0.049076	-1.69723
ILMN_2351638	-0.11712	6.269081	-3.62042	0.000685	0.024488	-0.64129
ILMN_1714352	-0.11702	7.136768	-3.47916	0.001051	0.031057	-1.03611
ILMN_1761946	-0.117	10.03847	-3.3667	0.001469	0.03824	-1.34364
ILMN_1733094	0.11696	7.83028	3.425213	0.001235	0.034084	-1.1844

ILMN_2317730	-0.1169	7.618262	-6.43217	4.62E-08	5.49E-05	8.414484
ILMN_2061732	0.116856	9.634742	3.443856	0.001168	0.033144	-1.1333
ILMN_1773369	0.11685	8.324905	4.153616	0.000127	0.008816	0.924383
ILMN_3239771	0.116848	9.107844	3.573817	0.00079	0.026205	-0.77256
ILMN_1712985	0.116482	8.016082	5.525005	1.18E-06	0.000513	5.337727
ILMN_2108357	0.116327	9.510669	3.710022	0.00052	0.020881	-0.38624
ILMN_2055156	-0.11628	7.259109	-3.70521	0.000528	0.020994	-0.40002
ILMN_1741133	0.116236	12.2059	3.393987	0.001355	0.03607	-1.2696
ILMN_1787879	0.116224	8.903315	4.14458	0.000131	0.008953	0.896956
ILMN_1702322	-0.11621	6.437328	-3.40441	0.001314	0.035472	-1.2412
ILMN_1813775	-0.11607	8.530452	-4.7635	1.67E-05	0.002491	2.833464
ILMN_1652008	0.115689	7.747766	5.658295	7.37E-07	0.000374	5.785363
ILMN_1756550	0.115667	7.648422	4.799325	1.48E-05	0.00235	2.948709
ILMN_1655126	-0.11564	7.973174	-3.70007	0.000536	0.021256	-0.41474
ILMN_1715616	0.115548	9.021957	5.026576	6.76E-06	0.001476	3.686442
ILMN_1700515	0.115507	7.735061	4.270028	8.71E-05	0.006983	1.280173
ILMN_1697317	-0.11544	5.879137	-3.57052	0.000798	0.026314	-0.78182
ILMN_2311537	0.115407	11.27813	3.584224	0.000765	0.025761	-0.74334
ILMN_1704702	0.115406	7.341246	3.706683	0.000526	0.020981	-0.39581
ILMN_1786379	0.115383	6.061254	3.973287	0.000228	0.013051	0.382521
ILMN_2253648	0.115334	7.430884	4.145973	0.000131	0.00893	0.901182
ILMN_1720819	0.115311	10.45168	4.688557	2.15E-05	0.00287	2.593345
ILMN_1689774	-0.11494	9.864237	-3.99189	0.000214	0.012592	0.437883
ILMN_1755862	0.114935	8.186322	3.947055	0.000247	0.013621	0.304689
ILMN_1795704	-0.11476	6.093777	-5.1662	4.16E-06	0.001113	4.144853
ILMN_1676846	0.114759	9.847006	4.556069	3.37E-05	0.00377	2.172337
ILMN_2227968	0.114522	7.650799	5.058441	6.06E-06	0.001401	3.790738
ILMN_2371053	-0.11445	7.79892	-4.32376	7.30E-05	0.006322	1.445878
ILMN_1760802	0.114397	6.722676	4.302284	7.83E-05	0.00651	1.379541
ILMN_2357781	-0.11404	6.984022	-3.75407	0.000454	0.019291	-0.25958
ILMN_1703041	-0.11403	5.96196	-4.55998	3.32E-05	0.00377	2.184688
ILMN_1674421	-0.11387	8.956569	-4.7674	1.65E-05	0.00248	2.845999
ILMN_1686906	-0.11373	6.61997	-3.37615	0.001428	0.037443	-1.31805
ILMN_1743763	-0.11365	8.513739	-3.88483	0.000301	0.015385	0.121121
ILMN_1732750	0.11365	7.464403	4.282679	8.35E-05	0.006858	1.319107
ILMN_1749829	0.113574	9.291547	3.474094	0.001067	0.031176	-1.05008
ILMN_1731070	0.113384	8.203436	4.091641	0.000156	0.010072	0.736843
ILMN_3273047	0.113	6.289677	3.737058	0.000478	0.019733	-0.3086
ILMN_2398926	0.112973	8.502134	5.133474	4.67E-06	0.001174	4.037086
ILMN_3282768	0.112921	8.48882	3.229775	0.00219	0.049614	-1.7096
ILMN_1737728	0.112817	8.578394	3.641547	0.000642	0.023682	-0.58148
ILMN_1780382	0.112814	9.142404	4.439297	4.98E-05	0.004864	1.805212
ILMN_1683598	0.112783	8.471196	3.479071	0.001051	0.031057	-1.03634
ILMN_1722642	-0.11275	7.247962	-3.62991	0.000666	0.024002	-0.61447
ILMN_1676600	-0.11253	9.628447	-3.60772	0.000712	0.024854	-0.67716
ILMN_1663716	-0.11247	6.101307	-4.27622	8.53E-05	0.006955	1.299218
ILMN_1662658	0.112444	9.094335	3.730064	0.000489	0.019993	-0.32872
ILMN_1684217	0.112443	8.660205	4.247815	9.37E-05	0.007224	1.211938
ILMN_3246754	0.112063	6.658273	5.328206	2.36E-06	0.000807	4.681035
ILMN_1730291	-0.11175	8.709407	-3.32636	0.001654	0.041191	-1.45246
ILMN_1796180	-0.11173	7.129997	-5.52294	1.19E-06	0.000513	5.330821
ILMN_2338963	0.111666	7.851581	3.340519	0.001586	0.040212	-1.41436
ILMN_1781039	-0.11153	8.572214	-4.78186	1.57E-05	0.002407	2.892493
ILMN_2382505	-0.11151	6.686503	-4.01562	0.000199	0.01202	0.508654

ILMN_1810069	0.111505	7.707762	4.251394	9.26E-05	0.007221	1.222922
ILMN_1795839	-0.11144	7.585747	-3.88372	0.000302	0.015416	0.117863
ILMN_1725791	0.111393	7.771939	3.873377	0.000312	0.015707	0.087507
ILMN_1794740	-0.11131	8.186942	-3.65901	0.000609	0.022886	-0.53188
ILMN_1719870	0.11131	8.18048	3.894629	0.000292	0.015163	0.149935
ILMN_2070349	0.111135	6.622781	3.935295	0.000257	0.013983	0.269884
ILMN_1689800	0.111079	8.066726	4.447194	4.85E-05	0.004789	1.829917
ILMN_1757230	-0.11106	6.625259	-5.41655	1.73E-06	0.000687	4.97517
ILMN_2316540	0.111024	10.15592	3.827472	0.000361	0.016989	-0.04673
ILMN_1709484	0.110996	6.939209	4.713942	1.98E-05	0.002792	2.674523
ILMN_1727740	0.110981	9.924555	3.839066	0.000348	0.016593	-0.0129
ILMN_1740960	0.110966	7.273288	3.341093	0.001584	0.040178	-1.41282
ILMN_1671933	0.110868	10.0399	3.55597	0.000834	0.027039	-0.82257
ILMN_1721868	0.110856	9.594541	3.492663	0.001009	0.030438	-0.99876
ILMN_1745152	-0.11059	8.553972	-4.98072	7.92E-06	0.001561	3.5367
ILMN_1757697	0.110488	7.179199	4.037381	0.000185	0.01143	0.573767
ILMN_1668996	0.110448	10.9741	4.356257	6.56E-05	0.005933	1.546542
ILMN_1781198	-0.11034	7.040246	-4.66136	2.36E-05	0.003004	2.506555
ILMN_1776788	-0.11028	6.904601	-3.70026	0.000536	0.021256	-0.41421
ILMN_3249406	0.11024	7.633908	4.439635	4.97E-05	0.004864	1.806268
ILMN_1769839	-0.11022	5.604133	-3.81964	0.00037	0.017174	-0.06955
ILMN_1661589	-0.11014	9.039459	-3.56256	0.000817	0.02668	-0.80412
ILMN_1769091	0.11013	10.25775	3.891653	0.000295	0.015237	0.141183
ILMN_1670931	0.109982	8.344569	4.645969	2.49E-05	0.003085	2.457516
ILMN_1757415	0.109799	7.754264	4.346003	6.78E-05	0.006104	1.514745
ILMN_2390609	-0.10968	7.612099	-3.72343	0.000499	0.020264	-0.34777
ILMN_1882000	0.109602	7.486805	4.826209	1.35E-05	0.002255	3.035396
ILMN_1805481	0.109383	8.210688	3.248913	0.002072	0.047831	-1.65903
ILMN_1799667	0.109126	7.599248	4.779955	1.58E-05	0.002407	2.886358
ILMN_1668498	0.109033	8.076128	4.450891	4.79E-05	0.004771	1.841489
ILMN_1686097	0.108979	10.63697	3.782293	0.000416	0.018352	-0.178
ILMN_1745813	-0.10872	9.210892	-3.562	0.000819	0.0267	-0.8057
ILMN_1853876	0.108707	6.888697	4.46005	4.64E-05	0.004695	1.870175
ILMN_2409298	0.108432	9.038152	3.586094	0.000761	0.025703	-0.73808
ILMN_1789123	0.108427	9.000204	4.189343	0.000113	0.008026	1.033093
ILMN_1798690	-0.10832	6.199461	-3.47808	0.001054	0.031069	-1.03909
ILMN_1688295	-0.1083	7.923774	-4.98471	7.82E-06	0.001549	3.549704
ILMN_1739083	-0.10825	7.948388	-4.11232	0.000146	0.009652	0.799266
ILMN_1788211	-0.10823	7.375675	-3.31061	0.001732	0.0424	-1.4947
ILMN_1798459	0.108047	6.719283	3.443016	0.001171	0.033169	-1.13561
ILMN_1656057	-0.10798	10.21881	-3.47636	0.00106	0.031124	-1.04384
ILMN_1753502	-0.10797	5.861393	-5.35768	2.13E-06	0.000765	4.779045
ILMN_2263144	0.107941	7.580538	3.761822	0.000443	0.018993	-0.23721
ILMN_2048700	0.107848	9.063857	3.859505	0.000326	0.016137	0.046854
ILMN_1743620	0.107591	6.116472	4.715564	1.96E-05	0.002788	2.679715
ILMN_1809495	0.10753	12.22347	4.222304	0.000102	0.00739	1.133772
ILMN_2072391	0.107484	8.267508	3.789415	0.000406	0.018103	-0.15737
ILMN_2326512	0.107427	8.422317	3.66896	0.00059	0.022452	-0.50357
ILMN_1770454	-0.10737	9.212353	-3.94522	0.000249	0.013644	0.299254
ILMN_2048507	0.107324	6.934677	3.791896	0.000403	0.018034	-0.15017
ILMN_1734316	0.107294	7.968123	4.556741	3.36E-05	0.00377	2.174463
ILMN_2219712	0.107292	10.62312	4.379147	6.08E-05	0.005632	1.617636
ILMN_2155172	0.107287	9.350678	3.585605	0.000762	0.025703	-0.73945
ILMN_1677843	-0.10718	8.415776	-4.07777	0.000163	0.010372	0.695048

ILMN_2214713	0.107108	6.93969	5.307674	2.54E-06	0.00082	4.612846
ILMN_1683096	0.106993	7.129923	4.890468	1.08E-05	0.001983	3.243258
ILMN_1729987	-0.10698	8.692391	-5.24174	3.20E-06	0.000935	4.394326
ILMN_2401436	0.106948	6.733042	4.685924	2.17E-05	0.00287	2.584932
ILMN_1714710	-0.10689	7.440477	-4.58599	3.05E-05	0.003596	2.267028
ILMN_1672094	-0.10679	6.754803	-3.3576	0.001508	0.038903	-1.36826
ILMN_1776674	0.106736	9.301239	3.512384	0.000951	0.029398	-0.94407
ILMN_1792986	0.106734	7.065098	4.642651	2.52E-05	0.003109	2.446952
ILMN_2405521	0.106707	9.709857	4.181024	0.000116	0.00823	1.007743
ILMN_1761131	0.106698	9.413357	4.454722	4.73E-05	0.004738	1.853485
ILMN_1728262	0.106644	5.633907	3.463121	0.001103	0.031813	-1.08033
ILMN_1786125	0.106629	9.585444	3.532614	0.000895	0.028223	-0.88778
ILMN_1664912	-0.1066	6.625302	-3.43235	0.001209	0.033515	-1.16485
ILMN_1751708	-0.10649	12.29033	-3.59729	0.000735	0.025249	-0.70657
ILMN_2048478	-0.10645	6.143759	-4.04993	0.000178	0.011038	0.611381
ILMN_2344971	0.10637	7.690906	4.399734	5.68E-05	0.005347	1.681715
ILMN_1705301	0.106353	7.378087	3.759485	0.000446	0.019085	-0.24396
ILMN_2347592	0.106341	7.731768	3.390092	0.00137	0.036422	-1.28019
ILMN_3244521	-0.10622	8.874954	-3.37132	0.001449	0.037866	-1.33114
ILMN_1719543	-0.10619	6.558594	-3.81115	0.00038	0.017435	-0.09425
ILMN_1823231	-0.10615	6.043474	-3.33565	0.001609	0.0406	-1.42748
ILMN_1775939	0.10613	9.109342	3.597828	0.000734	0.025233	-0.70506
ILMN_3243248	0.106091	6.648627	4.570821	3.20E-05	0.003708	2.218985
ILMN_2077550	0.106059	9.13064	3.785144	0.000412	0.018281	-0.16975
ILMN_1670542	0.105891	9.474264	3.469227	0.001083	0.031474	-1.0635
ILMN_1773470	-0.10585	7.148702	-3.97793	0.000224	0.013032	0.396337
ILMN_1705907	0.105821	8.640687	4.665055	2.33E-05	0.002989	2.51833
ILMN_1701374	0.105685	8.063289	4.666492	2.32E-05	0.002985	2.522914
ILMN_1700257	0.105617	7.445881	4.305883	7.74E-05	0.006493	1.390647
ILMN_2048633	0.105414	6.738295	3.549354	0.000851	0.027457	-0.84107
ILMN_2063114	0.10541	7.51076	3.475328	0.001063	0.031167	-1.04668
ILMN_1716279	0.105329	8.575244	3.434629	0.001201	0.033496	-1.15861
ILMN_1787415	-0.10531	7.716049	-4.01418	0.0002	0.012033	0.50436
ILMN_1814122	0.105296	8.830415	4.381442	6.03E-05	0.005614	1.624773
ILMN_2404407	-0.10515	6.015306	-4.01841	0.000197	0.011976	0.516995
ILMN_1700633	-0.10507	6.483025	-3.8453	0.000341	0.016419	0.005302
ILMN_2202948	0.105045	8.434508	3.940033	0.000253	0.01384	0.283902
ILMN_1799604	0.105021	10.66305	5.214172	3.52E-06	0.000996	4.303172
ILMN_3256325	-0.10484	7.767774	-4.24989	9.30E-05	0.007224	1.218313
ILMN_1809488	0.104793	10.62056	4.685903	2.17E-05	0.00287	2.584865
ILMN_1700546	0.104696	7.170142	3.633675	0.000658	0.02392	-0.6038
ILMN_1698996	0.104681	6.57796	4.059204	0.000173	0.010808	0.639228
ILMN_1663454	-0.10463	10.93109	-4.79672	1.49E-05	0.00235	2.940333
ILMN_1716524	-0.10462	10.43269	-4.91242	1.00E-05	0.001858	3.31446
ILMN_1765258	-0.10462	9.497473	-4.14715	0.00013	0.00893	0.904765
ILMN_1653134	-0.10451	7.862712	-3.75557	0.000452	0.01927	-0.25525
ILMN_1761069	0.104378	7.418122	3.922834	0.000267	0.014374	0.23306
ILMN_1706817	-0.10421	8.933568	-4.15297	0.000128	0.008817	0.922409
ILMN_1688103	-0.10408	7.79265	-3.86453	0.000321	0.015999	0.061572
ILMN_1714473	-0.10401	6.555985	-4.70191	2.06E-05	0.002852	2.636015
ILMN_2249920	-0.10398	6.030495	-3.69416	0.000546	0.021487	-0.43166
ILMN_1671895	-0.10387	6.998514	-3.83394	0.000354	0.016789	-0.02788
ILMN_1728083	-0.10378	7.764653	-3.96157	0.000236	0.01326	0.347732
ILMN_1703477	-0.10357	8.719924	-4.53361	3.63E-05	0.003925	2.101437

ILMN_1773760	0.103461	10.87738	3.501903	0.000982	0.029895	-0.97316
ILMN_1704253	-0.10344	7.390644	-4.1774	0.000118	0.008294	0.996697
ILMN_1767260	0.103353	7.203757	4.302961	7.82E-05	0.00651	1.381631
ILMN_1690802	0.103281	11.86294	4.060458	0.000172	0.010802	0.642994
ILMN_2306189	-0.10323	8.775216	-4.30795	7.69E-05	0.00648	1.397042
ILMN_1803312	0.10315	10.1723	4.228339	9.98E-05	0.007338	1.152244
ILMN_1744308	0.103132	8.517396	5.650338	7.58E-07	0.000379	5.758581
ILMN_1777853	-0.10299	6.925167	-3.61642	0.000694	0.024558	-0.6526
ILMN_1709634	0.102976	7.720106	3.860199	0.000326	0.016125	0.048887
ILMN_1679177	0.102748	7.84153	3.612938	0.000701	0.024636	-0.66244
ILMN_1815184	0.102649	9.900279	3.369615	0.001456	0.038028	-1.33576
ILMN_1750518	0.102646	9.345884	3.671996	0.000585	0.022356	-0.49492
ILMN_1654493	0.102595	7.359278	4.133932	0.000136	0.009176	0.864672
ILMN_1721022	-0.10247	11.28542	-4.32474	7.27E-05	0.006317	1.4489
ILMN_1655117	0.102468	7.807416	3.655305	0.000616	0.023048	-0.54242
ILMN_1671257	0.102428	10.84111	4.684228	2.19E-05	0.002875	2.579517
ILMN_3245893	0.102396	6.436412	6.38856	5.40E-08	6.01E-05	8.265446
ILMN_3251423	0.102381	6.070937	5.404967	1.80E-06	0.000707	4.936527
ILMN_1802251	-0.10237	9.784165	-4.30952	7.65E-05	0.006463	1.401883
ILMN_1785413	0.102282	6.579484	4.312501	7.57E-05	0.006438	1.411085
ILMN_2350574	-0.10223	7.019527	-3.73853	0.000476	0.019708	-0.30435
ILMN_1678095	0.10218	6.22752	3.816297	0.000374	0.017268	-0.07928
ILMN_1798256	0.102102	10.07763	3.267273	0.001965	0.04627	-1.61034
ILMN_1815885	-0.10199	6.751586	-4.43454	5.06E-05	0.004896	1.790343
ILMN_1744239	0.1018	7.234171	4.28478	8.30E-05	0.006827	1.325577
ILMN_1682095	-0.10171	7.826887	-4.72945	1.87E-05	0.002693	2.724178
ILMN_1688526	0.101658	11.46092	4.71937	1.94E-05	0.002763	2.691902
ILMN_1788416	0.101648	10.07322	3.796697	0.000397	0.017953	-0.13624
ILMN_1734483	-0.10156	8.371628	-4.9943	7.56E-06	0.001524	3.58099
ILMN_1690371	0.101477	9.478241	3.997697	0.00021	0.012381	0.455175
ILMN_1748923	0.101456	7.985495	3.484668	0.001034	0.03075	-1.02087
ILMN_1801118	0.101293	9.449759	3.240504	0.002123	0.048513	-1.68127
ILMN_1804988	-0.10127	8.036671	-3.58706	0.000759	0.025703	-0.73536
ILMN_2198515	-0.10119	6.781701	-3.29003	0.001839	0.044149	-1.54974
ILMN_2319913	-0.10104	8.392875	-3.34509	0.001565	0.03991	-1.40205
ILMN_1682226	-0.10102	6.776447	-4.448	4.83E-05	0.004789	1.832443
ILMN_1691578	0.100982	8.624275	3.502073	0.000981	0.029895	-0.97269
ILMN_1661293	-0.10098	6.006452	-3.80834	0.000383	0.01754	-0.10243
ILMN_1777895	-0.10096	7.506303	-4.70793	2.02E-05	0.002835	2.655279
ILMN_1798654	0.10085	10.43062	4.195555	0.000111	0.007898	1.052039
ILMN_2205999	0.100568	6.563454	3.924201	0.000266	0.014374	0.237098
ILMN_1797307	0.100501	7.472941	3.848809	0.000337	0.016315	0.015561
ILMN_2278636	-0.1005	8.453397	-4.63963	2.54E-05	0.003118	2.437344
ILMN_1723625	0.100414	8.226137	3.366764	0.001468	0.03824	-1.34348
ILMN_1752988	-0.10039	8.508428	-4.27211	8.65E-05	0.006983	1.286581
ILMN_2051373	0.100314	9.100051	3.476034	0.001061	0.031127	-1.04473
ILMN_2312719	0.100212	9.234985	3.783765	0.000414	0.018307	-0.17374
ILMN_2124816	-0.1002	6.47506	-3.47044	0.001079	0.031439	-1.06015
ILMN_1798177	-0.1002	9.656604	-4.67241	2.27E-05	0.002948	2.541781
ILMN_1743911	0.100016	10.10492	3.523956	0.000918	0.02876	-0.9119
ILMN_1712122	0.099963	5.943253	5.641958	7.81E-07	0.000385	5.730385
ILMN_1754234	0.099932	8.750927	3.968838	0.000231	0.013128	0.369301
ILMN_1721741	-0.09988	8.567651	-3.63581	0.000654	0.023869	-0.59775
ILMN_1758633	-0.09975	8.386412	-3.75403	0.000454	0.019291	-0.25969

ILMN_2364357	0.099685	9.160358	3.693608	0.000547	0.021487	-0.43323
ILMN_3241979	0.099636	8.52377	3.54764	0.000855	0.027497	-0.84586
ILMN_1730825	0.099588	7.212852	3.447849	0.001154	0.032859	-1.12234
ILMN_2226304	-0.09956	7.526339	-3.38114	0.001407	0.037092	-1.30452
ILMN_1656670	0.099524	6.613323	4.325975	7.24E-05	0.006307	1.452733
ILMN_1659364	0.099514	9.227493	4.065616	0.000169	0.010687	0.658494
ILMN_1676548	0.099426	10.23764	3.456283	0.001125	0.032201	-1.09916
ILMN_1665205	-0.09931	6.758934	-3.64579	0.000634	0.023517	-0.56943
ILMN_1797298	-0.09923	6.449559	-4.54127	3.54E-05	0.003886	2.12559
ILMN_1737611	-0.09913	6.66995	-5.73728	5.57E-07	0.000325	6.051582
ILMN_3196019	0.099109	7.911907	3.523552	0.00092	0.028769	-0.91302
ILMN_1674302	0.098995	8.246591	3.666252	0.000595	0.022553	-0.51128
ILMN_1672504	-0.09887	9.839358	-3.41672	0.001266	0.034677	-1.2076
ILMN_1765858	0.09884	11.0411	4.465214	4.56E-05	0.004629	1.886361
ILMN_1705201	-0.09881	6.145961	-3.52643	0.000912	0.028625	-0.90502
ILMN_1805104	-0.0987	5.880778	-3.54501	0.000862	0.027588	-0.8532
ILMN_1733956	0.098658	9.365749	3.550935	0.000847	0.027378	-0.83665
ILMN_1741736	0.098593	8.045154	4.992303	7.61E-06	0.001526	3.574486
ILMN_1780937	0.098485	7.910153	4.655286	2.41E-05	0.003035	2.487193
ILMN_1753482	0.098299	6.52185	3.730084	0.000489	0.019993	-0.32866
ILMN_2376667	-0.0983	7.41598	-4.7843	1.55E-05	0.002404	2.900339
ILMN_2041046	0.098247	10.23294	4.331498	7.11E-05	0.006248	1.46982
ILMN_1712320	-0.09825	8.823535	-4.56954	3.22E-05	0.003711	2.21492
ILMN_1657797	0.0982	8.498498	3.549637	0.00085	0.027457	-0.84028
ILMN_1655177	-0.09818	8.835963	-3.80126	0.000392	0.017767	-0.123
ILMN_2320906	0.098165	8.239528	3.781758	0.000416	0.018352	-0.17955
ILMN_2336781	0.098163	9.712383	3.624482	0.000677	0.024328	-0.62982
ILMN_1778059	0.098098	6.052982	4.522756	3.77E-05	0.004007	2.067213
ILMN_1685005	-0.09809	9.236945	-5.08275	5.57E-06	0.001323	3.87045
ILMN_1721713	0.098067	8.741853	3.771376	0.00043	0.018729	-0.2096
ILMN_1792078	-0.0979	9.804828	-4.4912	4.19E-05	0.004333	1.967914
ILMN_2371700	0.097897	7.614581	4.014896	0.000199	0.012026	0.506503
ILMN_2212909	0.097885	10.08082	3.307815	0.001746	0.042537	-1.5022
ILMN_3306997	0.09787	8.643979	4.267601	8.78E-05	0.007006	1.27271
ILMN_2214355	0.09787	6.543851	3.778687	0.00042	0.018411	-0.18845
ILMN_1798705	0.0978	8.716211	3.975846	0.000226	0.013051	0.390127
ILMN_1713406	-0.09778	8.336282	-5.21867	3.47E-06	0.000988	4.31802
ILMN_2210713	0.097758	6.990189	5.141904	4.53E-06	0.001166	4.064831
ILMN_1728934	0.097548	10.36563	3.743649	0.000469	0.019597	-0.28963
ILMN_1723481	-0.0975	7.711944	-4.07113	0.000166	0.010538	0.675082
ILMN_2377862	0.097461	7.906293	3.721934	0.000501	0.020334	-0.35207
ILMN_1682336	0.097406	7.018467	3.631373	0.000663	0.02392	-0.61032
ILMN_3231638	-0.09728	7.788437	-3.24606	0.00209	0.048026	-1.66658
ILMN_1791569	-0.09725	7.56294	-3.49582	0.001	0.03026	-0.99002
ILMN_1675130	0.097201	7.106587	3.365542	0.001474	0.038313	-1.34679
ILMN_1708787	-0.09716	6.52756	-4.12218	0.000141	0.009403	0.829077
ILMN_1701269	0.097152	10.9199	3.826684	0.000362	0.016989	-0.04902
ILMN_1741219	-0.09714	7.24337	-3.747	0.000464	0.019525	-0.27996
ILMN_1704571	-0.09711	8.266542	-3.6743	0.000581	0.022272	-0.48834
ILMN_2327994	0.096959	7.877695	3.396451	0.001345	0.035999	-1.26289
ILMN_1716445	0.096808	9.710095	3.753548	0.000454	0.019297	-0.26109
ILMN_1667977	0.096763	7.875987	5.017969	6.97E-06	0.001483	3.658303
ILMN_1694514	-0.09673	6.798094	-3.70869	0.000522	0.020939	-0.39007
ILMN_2367215	0.096733	8.953831	3.39149	0.001365	0.036306	-1.27639

ILMN_1710064	-0.09641	6.052733	-3.46402	0.0011	0.031813	-1.07786
ILMN_1915076	0.096396	6.374949	3.247043	0.002084	0.047921	-1.66398
ILMN_2061768	0.096374	5.620463	4.723059	1.92E-05	0.00274	2.703717
ILMN_1797522	-0.09637	9.338909	-3.83901	0.000348	0.016593	-0.01308
ILMN_3282436	-0.09637	9.636965	-3.45963	0.001114	0.03204	-1.08993
ILMN_1658685	-0.09633	5.723769	-3.63552	0.000654	0.023869	-0.59858
ILMN_2411116	0.096269	6.521317	4.331472	7.11E-05	0.006248	1.469741
ILMN_1788462	0.096224	9.76744	3.850651	0.000335	0.016288	0.020946
ILMN_1685774	0.096196	11.23213	3.463243	0.001102	0.031813	-1.08
ILMN_1743711	0.096185	8.799743	3.906867	0.000281	0.014795	0.185965
ILMN_1685679	-0.09617	7.037924	-4.99556	7.53E-06	0.001524	3.585116
ILMN_1764970	-0.09612	9.031092	-4.13856	0.000134	0.009075	0.878706
ILMN_1746561	-0.09596	9.355075	-4.87971	1.12E-05	0.002046	3.20838
ILMN_1797318	0.095937	7.588091	3.631908	0.000662	0.02392	-0.6088
ILMN_1671906	0.095869	8.231716	3.530466	0.000901	0.028381	-0.89377
ILMN_1786718	0.095789	10.08506	3.519825	0.00093	0.029016	-0.92339
ILMN_2045729	0.095752	9.020965	3.668218	0.000592	0.022468	-0.50568
ILMN_1701289	0.095593	8.383383	3.254162	0.002041	0.047308	-1.64513
ILMN_1743241	-0.09556	7.429253	-3.54617	0.000859	0.027517	-0.84997
ILMN_1780667	0.095546	8.102367	3.376152	0.001428	0.037443	-1.31804
ILMN_1708059	0.095456	6.612322	3.952913	0.000243	0.013412	0.32205
ILMN_2129273	0.095342	6.794774	3.457072	0.001123	0.032179	-1.09698
ILMN_1741942	-0.09529	9.043092	-3.74056	0.000473	0.019679	-0.29852
ILMN_1772124	-0.09525	7.905463	-3.85405	0.000332	0.016239	0.030892
ILMN_1815190	0.095252	7.766689	4.230031	9.93E-05	0.007326	1.157424
ILMN_1691418	-0.09525	6.015237	-3.74168	0.000472	0.019645	-0.29528
ILMN_1787923	-0.09516	7.990188	-3.7929	0.000402	0.018024	-0.14725
ILMN_1657983	-0.09512	8.205449	-4.57586	3.15E-05	0.00367	2.234931
ILMN_1698715	0.095059	6.978506	5.905654	3.05E-07	0.000206	6.621067
ILMN_1802646	-0.095	5.629979	-3.55504	0.000836	0.02709	-0.82518
ILMN_1810418	0.094944	6.766562	4.27089	8.68E-05	0.006983	1.282823
ILMN_3276822	0.094915	6.700761	3.916589	0.000272	0.014527	0.21463
ILMN_2049766	0.094885	7.162144	3.496235	0.000998	0.03026	-0.98886
ILMN_1734830	-0.09486	6.273341	-3.67968	0.000571	0.022053	-0.473
ILMN_1797005	-0.09473	9.38135	-3.89314	0.000293	0.015188	0.145559
ILMN_1718271	-0.09465	8.508077	-3.50847	0.000962	0.029544	-0.95493
ILMN_1695362	-0.09464	7.64827	-3.58078	0.000773	0.02583	-0.75301
ILMN_1740505	-0.0946	6.756571	-5.23829	3.24E-06	0.000938	4.382928
ILMN_1737195	0.094552	9.058671	3.886178	0.0003	0.015385	0.12509
ILMN_2403965	0.094488	7.315688	3.688651	0.000556	0.021646	-0.4474
ILMN_1786108	0.094484	6.541234	3.626279	0.000673	0.024223	-0.62474
ILMN_1701882	0.09448	7.89375	3.905601	0.000282	0.014802	0.182236
ILMN_1747935	-0.09446	8.156604	-4.23297	9.83E-05	0.00731	1.166431
ILMN_3187852	-0.09442	9.630297	-4.14941	0.000129	0.008902	0.911612
ILMN_1743204	-0.09436	6.696148	-4.24123	9.57E-05	0.007252	1.191753
ILMN_1717173	0.09423	9.055678	3.44296	0.001171	0.033169	-1.13576
ILMN_1751773	0.094187	7.174382	4.092573	0.000155	0.010072	0.739654
ILMN_1710150	0.094138	7.049956	4.745963	1.77E-05	0.002589	2.777145
ILMN_1775759	0.094075	7.746172	3.371686	0.001447	0.037853	-1.33015
ILMN_1695946	-0.09399	8.595334	-3.44139	0.001177	0.03317	-1.14007
ILMN_1781281	0.093987	6.702514	4.226582	0.0001	0.007349	1.146864
ILMN_2399310	0.093945	7.050559	3.272325	0.001936	0.045721	-1.59691
ILMN_1699737	0.093791	8.90879	4.236222	9.73E-05	0.00731	1.176391
ILMN_1734290	-0.09364	6.382182	-3.34755	0.001554	0.039681	-1.39542

ILMN_1705403	-0.09364	5.593937	-4.40523	5.57E-05	0.005264	1.698849
ILMN_1771738	0.093527	7.554359	5.304366	2.57E-06	0.00082	4.601869
ILMN_2413644	0.093413	5.945823	3.306161	0.001754	0.042713	-1.50663
ILMN_1765523	-0.09331	7.115895	-3.60158	0.000726	0.025096	-0.69448
ILMN_2392546	0.093287	10.91639	3.350509	0.00154	0.039483	-1.38742
ILMN_3307930	0.093205	12.3474	3.910949	0.000277	0.01471	0.197997
ILMN_1790625	0.093125	9.523981	3.954719	0.000241	0.0134	0.327401
ILMN_1678300	0.093042	9.174469	3.433834	0.001203	0.033496	-1.16079
ILMN_2097185	-0.09302	7.903364	-3.50973	0.000959	0.029485	-0.95145
ILMN_3305871	0.092912	6.858199	3.846031	0.00034	0.016412	0.00744
ILMN_1745217	-0.09284	8.509883	-4.25599	9.12E-05	0.007161	1.237045
ILMN_1759175	0.092759	6.883299	4.177675	0.000118	0.008294	0.997543
ILMN_2100458	0.092743	6.719361	3.785811	0.000411	0.018281	-0.16781
ILMN_1670821	0.092722	6.174755	4.235259	9.76E-05	0.00731	1.173439
ILMN_3206242	0.092663	7.382247	3.328579	0.001643	0.040977	-1.4465
ILMN_1663390	0.092612	10.3255	3.286513	0.001858	0.04448	-1.55913
ILMN_1746948	-0.09256	7.200818	-3.46426	0.001099	0.031813	-1.0772
ILMN_1755749	0.092555	10.96564	4.331074	7.12E-05	0.006248	1.468508
ILMN_1722089	0.092493	7.619406	3.998623	0.00021	0.012375	0.457937
ILMN_1746699	0.092477	7.767765	3.491013	0.001014	0.030512	-1.00333
ILMN_1675038	-0.0924	8.060328	-4.06004	0.000172	0.010802	0.641731
ILMN_3185161	0.092346	6.903838	4.781019	1.57E-05	0.002407	2.889779
ILMN_2347917	0.092292	8.30568	4.08584	0.000159	0.010162	0.719359
ILMN_1739103	0.092155	6.763199	3.85382	0.000332	0.016239	0.030216
ILMN_3305304	0.092123	9.246339	4.243859	9.49E-05	0.007245	1.199804
ILMN_1703946	0.092018	8.504249	3.253801	0.002043	0.047308	-1.64608
ILMN_1745904	-0.09197	10.72794	-3.35112	0.001538	0.039441	-1.38578
ILMN_1651433	0.091867	8.086261	3.607912	0.000712	0.024854	-0.67663
ILMN_1669424	0.091807	11.80404	3.567757	0.000804	0.026488	-0.78956
ILMN_1898692	0.091592	6.279318	4.844599	1.27E-05	0.002206	3.094789
ILMN_1723124	-0.09154	6.993052	-3.842	0.000345	0.016505	-0.00433
ILMN_2311089	0.091511	7.284059	3.636934	0.000651	0.023869	-0.59456
ILMN_1754178	0.091488	10.43995	3.816932	0.000373	0.017257	-0.07743
ILMN_1685258	0.09147	10.63855	4.098623	0.000152	0.009966	0.757903
ILMN_2384536	0.091353	8.082153	3.705597	0.000527	0.020993	-0.39892
ILMN_1658695	0.091323	8.046687	3.428205	0.001224	0.033808	-1.17621
ILMN_1815012	-0.09132	8.664127	-3.77116	0.00043	0.018729	-0.21023
ILMN_2048636	0.091279	7.645362	3.790072	0.000406	0.01809	-0.15546
ILMN_2400874	0.091208	9.201289	3.748326	0.000462	0.019469	-0.27615
ILMN_1677906	0.09119	9.433026	4.524611	3.74E-05	0.003995	2.07306
ILMN_1733937	0.090994	7.646218	3.362135	0.001488	0.038554	-1.35601
ILMN_1900270	0.090849	6.401475	3.245125	0.002095	0.048092	-1.66905
ILMN_1765558	-0.09084	7.628369	-3.45972	0.001114	0.03204	-1.08969
ILMN_1722674	0.090791	6.699466	3.96716	0.000232	0.013155	0.364318
ILMN_2261784	0.09073	8.13697	3.844571	0.000342	0.016419	0.003176
ILMN_1783546	-0.09066	8.003033	-3.27819	0.001903	0.045121	-1.5813
ILMN_2379469	0.090616	11.18543	4.40824	5.52E-05	0.005226	1.708228
ILMN_1754179	-0.09059	8.305198	-4.73948	1.81E-05	0.002634	2.756361
ILMN_1768969	0.090542	7.446226	3.649083	0.000628	0.023365	-0.5601
ILMN_2128750	-0.09043	10.87379	-4.65768	2.39E-05	0.003031	2.49482
ILMN_3234756	0.090421	7.0363	3.744771	0.000467	0.019597	-0.28639
ILMN_3179620	0.090407	6.460925	4.56534	3.26E-05	0.003739	2.201648
ILMN_1692790	0.090383	8.579602	3.690737	0.000552	0.021556	-0.44144
ILMN_1756542	-0.09034	6.823393	-3.81182	0.000379	0.017435	-0.0923

ILMN_2178226	0.090328	5.761471	3.980397	0.000222	0.012952	0.403659
ILMN_1805827	-0.0903	12.81968	-3.82692	0.000361	0.016989	-0.04833
ILMN_3307266	0.090183	7.157899	4.624264	2.68E-05	0.003272	2.38847
ILMN_1673991	0.090175	10.46295	3.59007	0.000752	0.025581	-0.7269
ILMN_2325394	0.090164	6.413411	4.202392	0.000109	0.007788	1.072909
ILMN_1781419	0.090137	8.999329	3.552638	0.000842	0.027262	-0.83189
ILMN_3272768	0.09012	6.624888	5.296918	2.64E-06	0.000834	4.577153
ILMN_2110829	0.090066	9.06234	4.546465	3.48E-05	0.003868	2.142001
ILMN_2350114	-0.09006	6.47765	-3.76727	0.000435	0.018838	-0.22149
ILMN_1766637	0.089845	8.528574	3.965148	0.000233	0.013196	0.358345
ILMN_1733757	0.089843	10.38152	3.234662	0.00216	0.049076	-1.6967
ILMN_2141259	0.089827	6.809435	5.095506	5.33E-06	0.001275	3.912299
ILMN_1761531	-0.08974	7.048732	-4.95667	8.61E-06	0.001667	3.458328
ILMN_2179837	0.089665	10.82075	3.737278	0.000478	0.019733	-0.30797
ILMN_1766185	0.089639	8.20693	3.771329	0.00043	0.018729	-0.20974
ILMN_1788149	-0.08958	5.95601	-3.54624	0.000859	0.027517	-0.84978
ILMN_1664167	0.089514	10.25886	4.340535	6.90E-05	0.006167	1.4978
ILMN_2059797	-0.08946	7.313495	-3.68317	0.000565	0.021901	-0.46306
ILMN_1815882	0.089406	6.880175	3.952919	0.000243	0.013412	0.322067
ILMN_1736130	0.089314	7.127001	3.620793	0.000684	0.024488	-0.64025
ILMN_1703005	-0.0892	10.44196	-3.24864	0.002074	0.047831	-1.65977
ILMN_1690352	-0.08915	8.411519	-3.25943	0.00201	0.046877	-1.63116
ILMN_1744046	0.08911	7.48544	3.709958	0.00052	0.020881	-0.38643
ILMN_2359453	-0.0891	10.66599	-3.6021	0.000725	0.025082	-0.69303
ILMN_1807243	0.08904	7.320598	3.680125	0.00057	0.022048	-0.47174
ILMN_1808354	0.089028	6.543877	4.786569	1.54E-05	0.002396	2.907637
ILMN_2298936	0.08898	10.25468	3.754698	0.000453	0.019291	-0.25777
ILMN_1812441	-0.08894	8.001096	-4.04156	0.000183	0.011298	0.586289
ILMN_1764323	0.088928	9.198453	4.519734	3.80E-05	0.004029	2.057692
ILMN_1658027	0.088786	7.183461	3.841573	0.000345	0.016505	-0.00558
ILMN_2222880	-0.08878	6.836397	-3.33813	0.001597	0.040435	-1.4208
ILMN_1807540	-0.08865	7.603404	-3.44223	0.001174	0.033169	-1.13777
ILMN_1815024	0.0886	10.93684	3.322375	0.001673	0.04148	-1.46316
ILMN_1722276	-0.08855	8.935431	-3.94592	0.000248	0.013644	0.301327
ILMN_1774890	0.088423	7.438108	4.614848	2.76E-05	0.003354	2.358555
ILMN_1799367	0.088394	10.52339	3.311507	0.001727	0.04235	-1.49231
ILMN_2395240	0.088353	7.737161	3.692482	0.000549	0.021538	-0.43645
ILMN_2334204	0.088293	6.883614	3.596601	0.000737	0.025277	-0.70852
ILMN_1752270	0.088241	6.838127	4.589765	3.01E-05	0.003562	2.278978
ILMN_3280667	0.088137	6.652168	5.066729	5.88E-06	0.00138	3.817897
ILMN_3228585	-0.08805	8.422743	-3.43591	0.001196	0.033496	-1.15511
ILMN_1801600	-0.08803	8.147344	-3.62212	0.000682	0.024479	-0.63651
ILMN_2396956	-0.088	8.230168	-3.45983	0.001114	0.03204	-1.08939
ILMN_1658437	0.087994	8.967506	3.24452	0.002099	0.048112	-1.67065
ILMN_1687971	-0.08797	6.275943	-3.5352	0.000888	0.02811	-0.88058
ILMN_3248758	0.087866	6.366765	4.01892	0.000197	0.011976	0.518527
ILMN_1693771	0.087761	7.766399	3.313234	0.001718	0.042205	-1.48768
ILMN_1738767	-0.08773	8.400323	-4.01149	0.000201	0.012095	0.496342
ILMN_2332558	0.087685	9.264805	3.909933	0.000278	0.014712	0.195001
ILMN_2168992	0.087567	7.43552	4.613289	2.78E-05	0.00336	2.353603
ILMN_1813240	0.087538	10.31536	3.338601	0.001595	0.040409	-1.41953
ILMN_1664608	-0.08753	8.508847	-3.33482	0.001613	0.0406	-1.42969
ILMN_2054145	0.087506	8.440683	3.414394	0.001275	0.034835	-1.21397
ILMN_1732725	0.087491	7.960482	3.489471	0.001019	0.030581	-1.00759

ILMN_1671809	-0.0874	8.4693	-3.60512	0.000718	0.024926	-0.6845
ILMN_1797367	-0.08727	7.058893	-3.74307	0.00047	0.019597	-0.29128
ILMN_1693221	0.087214	7.609533	3.588494	0.000755	0.025654	-0.73133
ILMN_2386100	0.08713	9.046575	3.586667	0.000759	0.025703	-0.73647
ILMN_1669308	0.087104	7.241029	4.357398	6.53E-05	0.005933	1.550082
ILMN_1672759	-0.08708	8.162983	-3.74382	0.000468	0.019597	-0.28914
ILMN_1846771	-0.087	6.375979	-3.34968	0.001544	0.03952	-1.38965
ILMN_1689968	-0.08693	6.296841	-3.5166	0.000939	0.02914	-0.93234
ILMN_1730504	-0.08683	6.258881	-4.35997	6.48E-05	0.005906	1.558051
ILMN_2127477	0.08656	7.228714	3.279431	0.001897	0.045001	-1.578
ILMN_1653553	0.086531	6.729792	3.919256	0.00027	0.014439	0.222498
ILMN_1672553	0.086432	5.859542	3.662729	0.000602	0.022725	-0.52131
ILMN_1801378	0.086427	8.348091	3.494354	0.001004	0.030366	-0.99407
ILMN_1727300	-0.08639	7.468963	-4.65465	2.42E-05	0.003035	2.485162
ILMN_1702231	-0.08628	6.19729	-3.89986	0.000287	0.015027	0.165338
ILMN_1688089	0.086247	10.74743	4.027276	0.000191	0.011744	0.543514
ILMN_2129388	-0.08624	7.4324	-3.57103	0.000796	0.026314	-0.78038
ILMN_1786976	-0.08622	8.587619	-3.53794	0.00088	0.027977	-0.87294
ILMN_1679881	0.086126	7.188561	3.3374	0.001601	0.040464	-1.42276
ILMN_2333687	-0.08611	6.597974	-3.85092	0.000335	0.016288	0.021745
ILMN_1665219	-0.0861	7.18645	-4.30143	7.85E-05	0.00651	1.376917
ILMN_1668605	0.086063	7.037081	4.094621	0.000154	0.010027	0.745832
ILMN_1751984	-0.08598	7.97319	-5.17162	4.09E-06	0.001101	4.162726
ILMN_2055165	-0.08588	11.24432	-3.5241	0.000918	0.02876	-0.91149
ILMN_1730799	-0.08588	7.340899	-3.23454	0.00216	0.049076	-1.69703
ILMN_1733690	0.085881	6.916004	3.768766	0.000433	0.018774	-0.21715
ILMN_2393544	-0.08584	7.652228	-4.42374	5.24E-05	0.005033	1.756601
ILMN_1802377	-0.08582	6.874295	-3.63528	0.000655	0.023869	-0.59924
ILMN_2043828	0.085792	6.634683	3.606668	0.000715	0.024876	-0.68014
ILMN_1668465	0.085735	6.090794	4.112777	0.000145	0.009652	0.800651
ILMN_3263329	0.085579	8.816942	3.275277	0.00192	0.045423	-1.58906
ILMN_2399523	-0.08557	7.83665	-3.50468	0.000973	0.029778	-0.96546
ILMN_1784367	0.085471	7.22628	3.645566	0.000634	0.023517	-0.57008
ILMN_3182422	-0.0854	7.415648	-3.40974	0.001293	0.035153	-1.22667
ILMN_1770053	0.085396	10.21354	4.210583	0.000106	0.007599	1.097927
ILMN_1733875	-0.08539	7.811225	-3.84374	0.000343	0.016439	0.000749
ILMN_1672389	0.08537	9.105181	4.397957	5.71E-05	0.005349	1.67618
ILMN_1740005	0.085322	6.181646	3.253961	0.002042	0.047308	-1.64566
ILMN_2061405	0.08531	9.813282	3.439962	0.001182	0.03323	-1.14399
ILMN_1814074	-0.08523	7.334847	-3.26108	0.002	0.046758	-1.62677
ILMN_1755822	0.085191	6.523157	4.233023	9.83E-05	0.00731	1.166587
ILMN_1759954	0.085123	11.03952	4.471564	4.47E-05	0.004545	1.906273
ILMN_1811104	-0.08511	9.073405	-3.77376	0.000427	0.018648	-0.20271
ILMN_2206344	-0.08506	6.519048	-4.64749	2.47E-05	0.003081	2.462371
ILMN_2412172	-0.08505	6.932103	-3.69369	0.000547	0.021487	-0.43299
ILMN_1772713	-0.08504	9.535364	-3.45053	0.001145	0.032625	-1.11498
ILMN_2174380	0.084822	6.2976	3.844757	0.000342	0.016419	0.003718
ILMN_1694752	-0.0848	7.069329	-4.24355	9.50E-05	0.007245	1.198861
ILMN_1782439	-0.08466	10.19497	-4.27804	8.48E-05	0.00693	1.304826
ILMN_2201533	0.084621	9.821846	3.636454	0.000652	0.023869	-0.59592
ILMN_3307700	0.084519	8.613779	3.320574	0.001682	0.04148	-1.468
ILMN_1701308	-0.08438	6.375542	-3.61922	0.000688	0.024517	-0.64469
ILMN_1731612	0.084301	9.136684	3.285415	0.001864	0.04455	-1.56205
ILMN_2048822	0.084167	7.98774	3.775983	0.000424	0.018543	-0.19627

ILMN_1761058	-0.0841	7.335681	-4.32297	7.32E-05	0.006322	1.44345
ILMN_1786016	0.084098	7.078864	4.449472	4.81E-05	0.00478	1.837049
ILMN_1677747	0.084084	6.347556	3.488612	0.001022	0.030581	-1.00997
ILMN_1655206	-0.08401	6.955883	-4.51284	3.89E-05	0.004079	2.035988
ILMN_1805658	0.083964	9.531575	4.212122	0.000105	0.007592	1.102632
ILMN_1709479	0.083826	10.3083	3.352089	0.001533	0.039387	-1.38316
ILMN_1792748	-0.08379	6.144422	-3.42422	0.001238	0.03413	-1.18712
ILMN_2333865	-0.0837	7.367843	-3.62065	0.000685	0.024488	-0.64065
ILMN_1766000	0.083672	8.079881	3.614132	0.000698	0.024597	-0.65907
ILMN_1724907	0.083636	8.172697	3.396137	0.001346	0.036004	-1.26374
ILMN_2383419	0.083612	6.691453	3.76531	0.000438	0.018882	-0.22714
ILMN_1728059	0.083584	7.675856	3.241936	0.002115	0.048409	-1.67749
ILMN_1719256	0.083579	10.98633	3.541397	0.000871	0.027789	-0.86329
ILMN_1744268	-0.08358	8.45024	-3.47446	0.001066	0.031169	-1.04908
ILMN_1781001	0.083556	6.255321	4.536037	3.60E-05	0.003915	2.109088
ILMN_1727281	0.083553	7.373109	3.730228	0.000489	0.019993	-0.32824
ILMN_2389810	0.08355	7.036976	4.440151	4.96E-05	0.004864	1.807882
ILMN_3309694	0.083544	6.60877	4.24541	9.44E-05	0.007245	1.20456
ILMN_3258795	-0.08343	8.134018	-3.59475	0.000741	0.025369	-0.71371
ILMN_1693004	-0.08337	7.82199	-3.23461	0.00216	0.049076	-1.69683
ILMN_1734153	-0.08336	7.901925	-3.82568	0.000363	0.017019	-0.05196
ILMN_1684771	0.083242	9.93225	5.324702	2.39E-06	0.000807	4.669393
ILMN_1793033	0.083234	7.364432	3.642537	0.00064	0.023635	-0.57868
ILMN_2184640	0.08322	8.438208	3.455299	0.001129	0.032269	-1.10186
ILMN_1712894	-0.08297	5.769308	-4.54417	3.51E-05	0.003881	2.134767
ILMN_2332691	-0.08297	5.726569	-3.86732	0.000318	0.015905	0.069734
ILMN_1758173	0.082933	9.107964	3.915868	0.000273	0.014527	0.212501
ILMN_1737360	-0.08292	5.933497	-3.95177	0.000244	0.013439	0.318665
ILMN_2181125	-0.08282	7.1485	-3.97332	0.000227	0.013051	0.382629
ILMN_1758672	0.082822	6.513335	3.491768	0.001012	0.03047	-1.00123
ILMN_1813836	0.08282	11.55781	4.296619	7.98E-05	0.006598	1.362066
ILMN_1787280	0.082812	8.156233	3.595238	0.00074	0.025357	-0.71235
ILMN_1806705	-0.08279	6.603107	-3.48101	0.001045	0.030982	-1.03097
ILMN_2341952	0.082774	9.93769	3.671564	0.000586	0.022361	-0.49615
ILMN_1802894	0.082693	8.105851	3.58096	0.000773	0.02583	-0.75251
ILMN_3265365	0.082645	7.30924	3.728909	0.000491	0.020041	-0.33204
ILMN_2149053	0.082626	8.052889	3.832433	0.000355	0.01681	-0.03226
ILMN_1682818	-0.08259	6.036895	-3.65471	0.000617	0.023065	-0.5441
ILMN_1658110	0.082474	7.626379	3.824949	0.000364	0.017034	-0.05408
ILMN_2081335	0.082468	9.44052	4.129928	0.000138	0.009242	0.852542
ILMN_2364131	-0.08242	8.838955	-4.31496	7.51E-05	0.006438	1.418687
ILMN_2189406	0.082413	6.306606	3.473026	0.00107	0.03123	-1.05303
ILMN_1760635	0.082271	8.191383	3.695128	0.000545	0.021487	-0.42888
ILMN_1813275	-0.0822	10.06034	-3.2861	0.00186	0.044502	-1.56022
ILMN_2313730	-0.08211	11.72703	-3.33504	0.001612	0.0406	-1.42911
ILMN_1767747	0.082073	11.16732	4.061661	0.000171	0.010785	0.646609
ILMN_2224143	0.082045	11.33141	3.600033	0.000729	0.025189	-0.69885
ILMN_1719010	-0.08192	6.77102	-3.68483	0.000562	0.021828	-0.4583
ILMN_1666078	0.081842	7.427113	4.15825	0.000125	0.008702	0.938459
ILMN_1750088	0.081809	8.257719	3.484047	0.001036	0.030781	-1.02259
ILMN_1728975	0.081758	9.406542	4.804829	1.45E-05	0.00235	2.966445
ILMN_2407799	0.081753	6.374703	4.356171	6.56E-05	0.005933	1.546274
ILMN_1667577	0.081696	8.29085	4.330351	7.14E-05	0.006248	1.46627
ILMN_1762529	0.081631	7.058434	3.359072	0.001502	0.038788	-1.36429

ILMN_1731184	0.081574	9.208038	3.325029	0.00166	0.041263	-1.45604
ILMN_1704842	0.081547	6.070801	3.226334	0.002212	0.049948	-1.71867
ILMN_1808047	0.081517	6.950668	3.488103	0.001023	0.030581	-1.01138
ILMN_1678037	0.081462	7.767013	3.527094	0.00091	0.028593	-0.90316
ILMN_2357193	0.0814	6.711349	3.637578	0.00065	0.023869	-0.59274
ILMN_1659343	0.081338	10.95083	4.247954	9.36E-05	0.007224	1.212365
ILMN_1663383	0.08133	6.846656	3.617404	0.000692	0.024553	-0.64983
ILMN_3207933	0.081306	9.839309	3.3181	0.001694	0.041748	-1.47464
ILMN_2043306	-0.08129	5.970853	-3.43437	0.001202	0.033496	-1.15931
ILMN_1745593	0.081288	7.46409	3.724303	0.000498	0.020244	-0.34527
ILMN_1660844	0.081264	8.236984	4.224095	0.000101	0.00739	1.139251
ILMN_1805863	-0.08117	7.372344	-3.44022	0.001181	0.03323	-1.14328
ILMN_2054362	0.08103	7.511284	4.051363	0.000177	0.011007	0.615689
ILMN_1784328	0.080957	6.665213	3.694721	0.000545	0.021487	-0.43005
ILMN_1680196	0.080947	10.99316	3.706282	0.000526	0.020981	-0.39696
ILMN_1815306	-0.08091	7.293171	-3.53515	0.000888	0.02811	-0.88071
ILMN_3246391	0.080854	7.146863	3.265377	0.001976	0.046399	-1.61538
ILMN_1749709	-0.08083	10.32535	-3.30099	0.001781	0.043302	-1.52046
ILMN_1690252	0.080797	7.900762	3.404312	0.001314	0.035472	-1.24148
ILMN_1787511	0.080774	7.670593	4.312161	7.58E-05	0.006438	1.410034
ILMN_1739199	-0.08075	7.359269	-3.60801	0.000712	0.024854	-0.67636
ILMN_1682449	-0.0807	8.461128	-3.7436	0.000469	0.019597	-0.28977
ILMN_2179726	0.080692	6.727532	4.682542	2.20E-05	0.002875	2.574133
ILMN_1811592	0.080626	8.778322	3.240936	0.002121	0.048485	-1.68013
ILMN_2411559	0.08057	7.212475	4.535305	3.61E-05	0.003915	2.106779
ILMN_2381603	0.080472	6.52753	4.326199	7.24E-05	0.006307	1.453427
ILMN_1791186	0.080464	6.060227	3.566311	0.000808	0.026563	-0.79361
ILMN_1675186	0.080395	7.954593	3.741507	0.000472	0.019645	-0.29579
ILMN_1659564	-0.08036	9.782527	-3.78092	0.000417	0.018376	-0.18198
ILMN_1670948	-0.08034	8.812808	-3.83179	0.000356	0.01681	-0.03413
ILMN_1769751	-0.08026	7.054067	-4.00363	0.000206	0.012278	0.472882
ILMN_1791508	-0.08026	6.284753	-3.71453	0.000513	0.020708	-0.37332
ILMN_1680386	0.080169	6.946894	4.805962	1.44E-05	0.00235	2.970095
ILMN_1696133	0.080143	6.850996	3.267319	0.001965	0.04627	-1.61022
ILMN_2221014	0.080079	6.324599	3.71165	0.000518	0.020845	-0.38158
ILMN_3248701	0.080074	5.966318	3.557982	0.000829	0.0269	-0.81694
ILMN_1802157	0.080044	8.26044	5.000485	7.40E-06	0.001515	3.601193
ILMN_2313821	0.080043	8.017746	5.242097	3.20E-06	0.000935	4.39551
ILMN_1772894	0.080042	6.317472	3.677669	0.000575	0.022073	-0.47874
ILMN_3239130	-0.07999	6.88769	-3.98914	0.000216	0.012681	0.429689
ILMN_1730523	0.079994	7.930678	3.322259	0.001674	0.04148	-1.46347
ILMN_3246353	0.079957	7.169918	3.480361	0.001047	0.031017	-1.03278
ILMN_3228700	0.079955	6.753811	3.868023	0.000318	0.015893	0.071807
ILMN_1772703	0.079913	7.706179	3.583369	0.000767	0.025767	-0.74574
ILMN_1664030	0.079805	7.490503	3.432207	0.001209	0.033515	-1.16525
ILMN_1710756	0.079783	13.051	3.496795	0.000997	0.03026	-0.98731
ILMN_3295874	-0.0797	6.768968	-3.28323	0.001876	0.044659	-1.56787
ILMN_1753613	-0.07968	7.234789	-3.38911	0.001374	0.036444	-1.28286
ILMN_3248263	-0.07964	7.573761	-3.89703	0.00029	0.015117	0.156992
ILMN_1669598	0.079614	7.075846	4.670027	2.29E-05	0.002961	2.53419
ILMN_1778238	0.079583	9.702043	4.272094	8.65E-05	0.006983	1.286527
ILMN_1734826	0.07951	10.01109	3.572528	0.000793	0.02627	-0.77618
ILMN_1674706	0.079505	8.760991	3.636429	0.000652	0.023869	-0.59599
ILMN_1708513	-0.07948	5.683599	-3.8151	0.000375	0.017296	-0.08275

ILMN_1793476	-0.07947	8.059651	-3.54726	0.000856	0.027503	-0.8469
ILMN_1793371	-0.07947	8.352824	-3.58083	0.000773	0.02583	-0.75287
ILMN_2350801	-0.07937	6.091863	-4.23287	9.84E-05	0.00731	1.166133
ILMN_2395236	0.079362	7.819576	3.452316	0.001139	0.032531	-1.11006
ILMN_1782954	0.07932	9.122717	3.395489	0.001349	0.036018	-1.26551
ILMN_2391512	0.079107	6.565384	3.268316	0.001959	0.046193	-1.60757
ILMN_1737416	-0.07906	7.319151	-3.2631	0.001989	0.046643	-1.62141
ILMN_2405009	-0.07903	9.694206	-3.36608	0.001471	0.038281	-1.34533
ILMN_1750130	0.079019	11.2397	4.002689	0.000207	0.01229	0.470062
ILMN_1690282	0.079003	7.509177	4.086933	0.000158	0.010162	0.722653
ILMN_1796968	0.078969	7.273116	3.678854	0.000573	0.022063	-0.47536
ILMN_1654518	-0.07871	6.571465	-3.36108	0.001493	0.038607	-1.35886
ILMN_1745110	-0.07867	9.549561	-3.85344	0.000333	0.016239	0.029104
ILMN_3212373	0.078631	9.858828	3.535547	0.000887	0.02811	-0.87961
ILMN_1690138	0.078628	7.195188	4.477663	4.38E-05	0.004467	1.925408
ILMN_2347298	-0.07858	6.47501	-3.37399	0.001437	0.037626	-1.32392
ILMN_1893633	0.078527	6.969511	3.474988	0.001064	0.031169	-1.04761
ILMN_1662905	0.078507	12.26727	3.749181	0.000461	0.019441	-0.27369
ILMN_2083243	0.078502	8.487235	4.251653	9.25E-05	0.007221	1.223716
ILMN_2246894	-0.07849	10.12191	-3.69036	0.000553	0.021556	-0.44251
ILMN_2414007	0.078437	6.757321	4.019993	0.000196	0.011957	0.521734
ILMN_1755758	0.078412	6.846843	3.333351	0.00162	0.040674	-1.43366
ILMN_1653822	0.078242	6.814945	4.02839	0.000191	0.011723	0.546847
ILMN_3306388	0.078231	6.678257	4.010053	0.000202	0.012129	0.492039
ILMN_1668657	0.078209	6.905298	4.59906	2.91E-05	0.003489	2.308447
ILMN_2182531	0.078112	9.98976	3.762551	0.000442	0.018974	-0.23511
ILMN_1721977	0.078102	8.948922	3.86279	0.000323	0.01604	0.056475
ILMN_1700232	0.078096	8.155792	3.928519	0.000262	0.014219	0.249853
ILMN_1653836	-0.07809	6.280264	-3.72412	0.000498	0.020244	-0.34579
ILMN_1842850	-0.07808	6.399931	-3.50399	0.000975	0.029813	-0.96736
ILMN_2221673	0.078025	9.902959	3.240027	0.002126	0.048536	-1.68253
ILMN_1795865	-0.07799	7.208199	-3.64819	0.000629	0.023404	-0.56263
ILMN_2406501	0.077905	7.147169	3.50994	0.000958	0.029485	-0.95086
ILMN_1811574	-0.07789	8.301684	-3.27289	0.001933	0.045678	-1.59542
ILMN_1755910	-0.07783	6.575995	-3.83266	0.000355	0.01681	-0.0316
ILMN_3255144	0.077718	6.471177	3.61538	0.000696	0.024558	-0.65555
ILMN_2286024	0.077714	5.747321	5.488709	1.34E-06	0.000565	5.216214
ILMN_1736176	0.077657	7.014995	3.85363	0.000332	0.016239	0.02966
ILMN_1798940	0.077607	6.881157	4.087774	0.000158	0.010155	0.725188
ILMN_2113362	0.0775	6.918771	3.585963	0.000761	0.025703	-0.73845
ILMN_3234884	0.077488	8.666052	3.378191	0.00142	0.037331	-1.31251
ILMN_1702384	-0.07739	7.422851	-3.2846	0.001868	0.044572	-1.56424
ILMN_2050617	0.077363	10.63245	3.231026	0.002182	0.049513	-1.7063
ILMN_1753265	-0.07733	6.468278	-3.64727	0.000631	0.023445	-0.56524
ILMN_2352934	0.07731	6.588773	3.63185	0.000662	0.02392	-0.60897
ILMN_2181992	-0.07729	6.769124	-3.39566	0.001348	0.036018	-1.26503
ILMN_1688848	-0.07717	6.092466	-3.32156	0.001677	0.04148	-1.46535
ILMN_1720965	-0.07713	7.884281	-3.28967	0.001841	0.044165	-1.55071
ILMN_1805148	-0.07703	6.428121	-4.53149	3.66E-05	0.00394	2.09476
ILMN_1813246	0.077022	9.378718	3.28526	0.001865	0.04455	-1.56247
ILMN_1798543	0.076998	7.458454	3.615543	0.000695	0.024558	-0.65509
ILMN_1723843	-0.07696	8.337517	-3.97432	0.000227	0.013051	0.385604
ILMN_1755620	-0.07688	6.813174	-3.41062	0.00129	0.035117	-1.22428
ILMN_1698015	-0.07683	6.189212	-4.16998	0.000121	0.008445	0.974109

ILMN_1655952	-0.07679	9.16614	-3.40274	0.00132	0.035549	-1.24577
ILMN_1749243	0.076612	7.439673	3.620291	0.000685	0.024488	-0.64167
ILMN_1653283	-0.07654	6.972005	-3.29923	0.00179	0.043403	-1.52517
ILMN_2162799	0.076527	7.112451	4.571098	3.20E-05	0.003708	2.219862
ILMN_1775823	-0.0764	7.617423	-3.29532	0.001811	0.04375	-1.53562
ILMN_1856634	0.076278	6.904764	3.388604	0.001377	0.036444	-1.28423
ILMN_1794122	-0.07625	5.774116	-4.19694	0.000111	0.007879	1.05627
ILMN_1782633	0.076245	10.44958	3.779809	0.000419	0.018393	-0.1852
ILMN_1663042	-0.07605	9.702589	-3.28277	0.001878	0.044661	-1.5691
ILMN_1700378	0.075958	7.794192	3.401631	0.001324	0.035568	-1.24878
ILMN_1772743	0.075933	8.542248	3.466927	0.00109	0.031665	-1.06985
ILMN_1760933	0.075921	7.729166	3.706151	0.000526	0.020981	-0.39734
ILMN_1662417	0.075882	8.315637	4.021399	0.000195	0.011925	0.525937
ILMN_2389528	0.07578	6.108071	4.519325	3.81E-05	0.004029	2.056405
ILMN_1782377	0.075657	8.15753	4.111194	0.000146	0.009669	0.795867
ILMN_1686835	0.075618	6.816222	3.564635	0.000812	0.026563	-0.79831
ILMN_3247906	-0.07555	8.076963	-3.6052	0.000718	0.024926	-0.68429
ILMN_2411794	-0.07554	8.508565	-3.86833	0.000317	0.015893	0.072697
ILMN_3268403	-0.07553	5.923422	-3.82454	0.000364	0.017034	-0.05527
ILMN_3242462	0.075357	6.881228	3.796151	0.000398	0.017959	-0.13783
ILMN_3238452	-0.07516	7.509117	-4.23607	9.73E-05	0.00731	1.175915
ILMN_2397571	0.075105	6.875508	3.262733	0.001991	0.046662	-1.6224
ILMN_1672547	-0.07507	7.394584	-3.39409	0.001354	0.03607	-1.2693
ILMN_2410742	-0.075	8.216274	-3.48709	0.001026	0.030581	-1.01418
ILMN_1758827	0.074967	7.92998	3.889707	0.000297	0.015308	0.13546
ILMN_1724333	-0.07495	7.319627	-4.25663	9.10E-05	0.007161	1.239001
ILMN_1678454	0.074936	9.454743	3.259581	0.002009	0.046877	-1.63076
ILMN_1729868	0.074827	6.96272	4.090434	0.000156	0.010087	0.733206
ILMN_1783337	0.074779	6.847807	3.672166	0.000585	0.022356	-0.49443
ILMN_2224990	0.074776	6.33814	4.000827	0.000208	0.012321	0.464508
ILMN_2191313	-0.07467	6.159919	-4.22676	0.0001	0.007349	1.147393
ILMN_1780292	0.074581	6.06516	4.514634	3.87E-05	0.004079	2.041629
ILMN_1771903	0.074547	10.2093	3.666718	0.000594	0.022547	-0.50995
ILMN_2377430	-0.07448	7.648643	-4.00432	0.000206	0.012278	0.474927
ILMN_1708029	-0.07443	5.796382	-3.73598	0.00048	0.01977	-0.3117
ILMN_1695962	-0.07437	7.735068	-3.87548	0.00031	0.01567	0.093666
ILMN_1797499	0.074313	7.334307	3.368553	0.001461	0.038118	-1.33864
ILMN_1662364	0.074304	9.771747	3.484838	0.001033	0.03075	-1.0204
ILMN_1721034	-0.07426	6.996372	-3.66974	0.000589	0.022452	-0.50134
ILMN_1691131	0.074258	8.694918	3.854193	0.000332	0.016239	0.031306
ILMN_1662161	-0.07413	6.398688	-3.79196	0.000403	0.018034	-0.14999
ILMN_3289262	0.074085	9.609777	3.998395	0.00021	0.012375	0.457257
ILMN_1778611	0.074009	8.430149	3.564996	0.000811	0.026563	-0.79729
ILMN_1765923	0.073932	6.748245	3.806041	0.000386	0.017643	-0.1091
ILMN_1849941	-0.07391	6.628758	-3.42869	0.001222	0.033786	-1.17487
ILMN_1790461	0.073742	10.46785	3.590287	0.000751	0.025581	-0.72629
ILMN_1710979	0.073673	7.122279	3.725241	0.000496	0.020222	-0.34258
ILMN_1810838	0.073652	10.17688	3.945015	0.000249	0.013644	0.298648
ILMN_1772706	-0.07358	7.77093	-3.26154	0.001998	0.046728	-1.62557
ILMN_1761858	-0.07347	8.379168	-3.51936	0.000931	0.02902	-0.92467
ILMN_1654861	-0.07345	7.784018	-3.29967	0.001788	0.043394	-1.524
ILMN_1789627	-0.07337	6.247496	-3.61834	0.00069	0.024533	-0.64719
ILMN_1774990	0.073274	8.209856	3.349791	0.001544	0.03952	-1.38936
ILMN_1682996	0.073103	6.480388	3.505524	0.000971	0.029728	-0.96311

ILMN_1662184	0.073051	6.902236	3.419456	0.001256	0.034507	-1.20014
ILMN_1726512	-0.07297	5.750646	-3.63339	0.000659	0.02392	-0.60461
ILMN_1807074	0.072952	12.4116	3.988597	0.000217	0.012682	0.428063
ILMN_1697544	-0.07286	6.54915	-3.45162	0.001141	0.032558	-1.11197
ILMN_1781257	0.072847	7.109016	3.665912	0.000596	0.022553	-0.51225
ILMN_1814247	-0.07284	8.133792	-3.65235	0.000621	0.023182	-0.55081
ILMN_1748916	0.07278	9.077889	4.057512	0.000174	0.010831	0.634146
ILMN_1758895	-0.07277	5.959237	-3.43292	0.001207	0.033515	-1.16328
ILMN_1707534	0.072741	7.520501	5.668298	7.11E-07	0.000373	5.819039
ILMN_3236239	-0.07266	6.713216	-3.37689	0.001425	0.03743	-1.31605
ILMN_1655654	0.072525	7.681589	3.542391	0.000869	0.027756	-0.86051
ILMN_1727479	-0.07248	9.198404	-3.54618	0.000859	0.027517	-0.84994
ILMN_1667222	0.072463	7.845548	3.247599	0.00208	0.047878	-1.66251
ILMN_1765644	0.072454	9.64981	4.001319	0.000208	0.012321	0.465976
ILMN_1783695	0.072385	10.06995	4.106225	0.000148	0.009806	0.780855
ILMN_1777483	0.072325	6.793192	4.63971	2.54E-05	0.003118	2.437595
ILMN_1676233	0.072315	6.56562	4.126677	0.000139	0.009321	0.842699
ILMN_1794781	-0.07223	6.908979	-4.00409	0.000206	0.012278	0.474228
ILMN_1677440	-0.07222	10.45174	-3.53898	0.000878	0.027941	-0.87004
ILMN_1660579	0.072202	7.033727	3.393951	0.001355	0.03607	-1.26969
ILMN_1769634	0.072184	9.424811	3.463424	0.001102	0.031813	-1.0795
ILMN_1720442	-0.07213	9.711777	-3.7334	0.000484	0.019881	-0.31911
ILMN_1787199	0.072111	5.75609	3.38485	0.001392	0.036743	-1.29443
ILMN_1734553	-0.07207	6.505856	-4.48471	4.28E-05	0.004415	1.947528
ILMN_1666206	-0.07207	6.701845	-3.38839	0.001377	0.036444	-1.28482
ILMN_2375557	0.071972	6.017795	3.652389	0.000621	0.023182	-0.55071
ILMN_2061452	0.071961	8.406673	3.83644	0.000351	0.016681	-0.02057
ILMN_1708345	0.071837	6.267427	3.283498	0.001874	0.044656	-1.56716
ILMN_1815479	0.071832	11.76915	3.62177	0.000682	0.024479	-0.63749
ILMN_1694799	0.071807	7.960521	3.278044	0.001904	0.045121	-1.58169
ILMN_1761262	0.071738	6.502508	3.477031	0.001058	0.031087	-1.04197
ILMN_1740319	-0.07173	8.118393	-3.26573	0.001974	0.046396	-1.61445
ILMN_1700975	0.071665	5.799969	3.894653	0.000292	0.015163	0.150006
ILMN_1741148	0.07157	11.2415	4.231465	9.88E-05	0.007317	1.161817
ILMN_2361807	-0.07156	6.954242	-3.4425	0.001173	0.033169	-1.13703
ILMN_1711543	0.071485	7.71451	3.510306	0.000957	0.029485	-0.94984
ILMN_1709623	-0.07135	6.769465	-3.90905	0.000279	0.014731	0.192388
ILMN_1793146	0.071344	7.836729	3.389288	0.001374	0.036444	-1.28237
ILMN_1804479	0.071343	10.40331	4.210683	0.000106	0.007599	1.098234
ILMN_1680659	-0.07133	6.070394	-3.33364	0.001619	0.040673	-1.43287
ILMN_1783973	-0.07126	6.213538	-3.80345	0.000389	0.017716	-0.11664
ILMN_1746252	0.07119	10.81671	3.477606	0.001056	0.031069	-1.04039
ILMN_1654690	0.071123	8.92939	3.364143	0.00148	0.038388	-1.35057
ILMN_1727761	0.07107	6.848968	3.750506	0.000459	0.019384	-0.26986
ILMN_1748831	-0.07104	7.036402	-3.69443	0.000546	0.021487	-0.43087
ILMN_1793966	0.070915	6.391729	3.796669	0.000397	0.017953	-0.13632
ILMN_1716400	0.070903	6.972341	3.388638	0.001376	0.036444	-1.28414
ILMN_1706839	0.070831	8.051776	3.690384	0.000553	0.021556	-0.44245
ILMN_1651936	-0.0708	8.362008	-3.52449	0.000917	0.02876	-0.91041
ILMN_2278819	0.070792	6.91849	3.577364	0.000781	0.025949	-0.76261
ILMN_2130838	0.07077	9.563752	3.286953	0.001855	0.044454	-1.55795
ILMN_1698846	-0.07077	5.446632	-3.27662	0.001912	0.045277	-1.58548
ILMN_1739283	0.070708	8.105886	3.570973	0.000797	0.026314	-0.78054
ILMN_1769849	0.070592	5.956987	3.96614	0.000233	0.013176	0.361289

ILMN_1765459	-0.07059	9.787609	-3.38581	0.001388	0.036668	-1.29184
ILMN_1808163	0.070583	6.654041	4.237847	9.68E-05	0.007301	1.181371
ILMN_2194627	0.070511	7.630318	3.451487	0.001142	0.032558	-1.11234
ILMN_1760714	0.070499	13.40672	3.933565	0.000258	0.014038	0.264768
ILMN_1775742	0.07043	6.149598	3.308378	0.001743	0.042537	-1.5007
ILMN_1756220	0.070272	9.88412	3.919346	0.00027	0.014439	0.222763
ILMN_1696503	0.070166	5.995005	3.341055	0.001584	0.040178	-1.41292
ILMN_3238797	0.070108	6.616323	3.988046	0.000217	0.012683	0.426422
ILMN_1700628	0.070023	8.914394	3.496834	0.000997	0.03026	-0.98721
ILMN_3237241	-0.0699	8.244827	-3.67852	0.000573	0.022063	-0.4763
ILMN_1712639	-0.06987	5.972284	-3.6175	0.000691	0.024553	-0.64955
ILMN_3235477	0.069853	7.23899	3.310182	0.001734	0.042424	-1.49586
ILMN_1766010	0.069786	9.713606	3.406058	0.001307	0.0354	-1.23672
ILMN_1761722	-0.06965	6.721795	-3.43633	0.001195	0.033496	-1.15394
ILMN_1737205	0.069609	10.47446	3.328387	0.001644	0.040977	-1.44701
ILMN_2396947	0.069554	6.802564	3.312092	0.001724	0.042307	-1.49075
ILMN_2095133	-0.06951	8.352404	-4.01346	0.0002	0.01204	0.50221
ILMN_1769503	0.06949	5.950628	4.165079	0.000123	0.008545	0.959216
ILMN_1755710	-0.06945	6.44396	-3.58004	0.000775	0.025861	-0.75508
ILMN_3276859	0.06936	6.856227	3.36189	0.00149	0.038554	-1.35667
ILMN_1734895	0.069347	10.45557	3.969444	0.00023	0.013128	0.371101
ILMN_1713732	-0.06931	7.408825	-3.56285	0.000816	0.02668	-0.80331
ILMN_2407168	-0.0692	9.364091	-3.24467	0.002098	0.048112	-1.67024
ILMN_1774427	-0.06903	6.664536	-3.31107	0.001729	0.042373	-1.49347
ILMN_2400583	-0.06898	6.221054	-3.69094	0.000552	0.021556	-0.44086
ILMN_1722798	-0.06897	6.920934	-3.57944	0.000776	0.025861	-0.75678
ILMN_3240365	-0.06896	6.127374	-3.48836	0.001022	0.030581	-1.01066
ILMN_1662232	-0.06891	10.57958	-3.61523	0.000696	0.024558	-0.65598
ILMN_2414366	0.06864	6.52836	4.147882	0.00013	0.008928	0.906976
ILMN_1740197	-0.06863	6.46239	-3.8535	0.000332	0.016239	0.029292
ILMN_1700549	0.068579	6.885617	3.923691	0.000266	0.014374	0.235592
ILMN_1757956	-0.06847	7.737848	-3.22631	0.002212	0.049948	-1.71873
ILMN_1677953	0.068394	8.517315	3.228722	0.002197	0.049732	-1.71238
ILMN_1733511	-0.06836	9.79902	-3.58231	0.00077	0.025798	-0.74872
ILMN_3251567	-0.0683	6.775704	-3.51746	0.000937	0.029134	-0.92996
ILMN_1660186	-0.06827	8.751922	-3.44386	0.001168	0.033144	-1.13328
ILMN_1686668	0.068208	7.342006	4.232814	9.84E-05	0.00731	1.165949
ILMN_1706571	-0.06811	6.719259	-3.3518	0.001534	0.039392	-1.38394
ILMN_1693559	-0.06805	6.12679	-3.73697	0.000478	0.019733	-0.30884
ILMN_3249963	0.068032	6.239203	3.490496	0.001016	0.030533	-1.00476
ILMN_1724009	0.068014	7.799939	3.790907	0.000405	0.018066	-0.15304
ILMN_1755235	0.068013	8.331261	3.899223	0.000288	0.015035	0.163454
ILMN_1746368	-0.06797	7.297648	-4.05503	0.000175	0.010898	0.626681
ILMN_1752027	-0.06787	7.845224	-3.32551	0.001658	0.041235	-1.45475
ILMN_1748481	0.067857	7.970756	3.743123	0.000469	0.019597	-0.29114
ILMN_2415949	-0.0678	8.011595	-3.56137	0.00082	0.026726	-0.80746
ILMN_2182198	0.067751	9.117461	3.960582	0.000237	0.01328	0.344791
ILMN_1678546	-0.06772	9.135787	-3.78208	0.000416	0.018352	-0.17862
ILMN_1805992	-0.06768	9.205907	-3.90573	0.000282	0.014802	0.182629
ILMN_1694486	0.067608	6.609586	3.911816	0.000277	0.014692	0.200552
ILMN_1651504	-0.06758	7.020903	-3.51676	0.000939	0.02914	-0.93191
ILMN_1722953	-0.0675	6.095272	-3.72586	0.000495	0.020207	-0.3408
ILMN_1770978	0.067482	5.619437	3.227474	0.002205	0.049867	-1.71566
ILMN_1880012	-0.06734	6.180205	-4.02192	0.000195	0.011925	0.527483

ILMN_2387599	-0.06725	11.77284	-3.28037	0.001891	0.044909	-1.5755
ILMN_2285112	-0.06724	9.45944	-3.76572	0.000438	0.018882	-0.22597
ILMN_1702124	-0.06722	8.13866	-4.21817	0.000103	0.007459	1.121123
ILMN_1875342	-0.06722	7.489629	-4.26255	8.92E-05	0.007073	1.257193
ILMN_1669635	0.067171	9.458683	4.201346	0.000109	0.007798	1.069713
ILMN_1800958	0.066951	9.531794	3.97515	0.000226	0.013051	0.388056
ILMN_1787477	0.066855	6.784701	3.519178	0.000932	0.02902	-0.92519
ILMN_1736863	-0.06672	5.676027	-3.54181	0.00087	0.02778	-0.86214
ILMN_1670796	0.066715	9.651498	3.921822	0.000268	0.014389	0.230073
ILMN_2322935	0.066679	8.922015	3.851064	0.000335	0.016288	0.022156
ILMN_1742922	0.066633	8.151503	3.68717	0.000558	0.02172	-0.45163
ILMN_2298511	0.06663	8.457234	3.438549	0.001187	0.033343	-1.14787
ILMN_1678268	-0.06659	7.226246	-3.96163	0.000236	0.01326	0.347898
ILMN_3241985	0.066558	6.365159	3.784659	0.000413	0.018281	-0.17115
ILMN_1665065	-0.06653	6.807666	-3.77027	0.000431	0.018733	-0.2128
ILMN_1792489	0.066525	12.35525	4.008216	0.000203	0.01218	0.486554
ILMN_1809086	-0.06652	7.998576	-3.79433	0.0004	0.01801	-0.14311
ILMN_1767541	0.066478	6.062374	3.810671	0.00038	0.017435	-0.09565
ILMN_1669772	-0.06646	5.496418	-4.31398	7.54E-05	0.006438	1.41566
ILMN_1750178	-0.06644	7.241327	-3.67758	0.000575	0.022073	-0.47899
ILMN_1773148	-0.0663	6.855625	-3.35731	0.00151	0.038903	-1.36906
ILMN_2402806	-0.06626	8.329239	-3.24758	0.00208	0.047878	-1.66255
ILMN_1687546	-0.06626	6.590849	-3.33123	0.00163	0.040776	-1.43937
ILMN_2407308	-0.0662	6.087804	-3.71324	0.000515	0.020766	-0.37702
ILMN_1713875	0.066194	6.984571	3.314247	0.001713	0.042131	-1.48497
ILMN_1674128	0.066169	7.295817	4.083939	0.00016	0.010205	0.713632
ILMN_1789732	-0.06612	7.190357	-3.80275	0.00039	0.017731	-0.11867
ILMN_1770732	0.066019	10.41735	3.259167	0.002012	0.046877	-1.63186
ILMN_1738819	0.065922	9.110635	3.469998	0.00108	0.031455	-1.06138
ILMN_3248575	0.065908	6.366202	4.380921	6.04E-05	0.005614	1.623154
ILMN_1745954	0.065766	9.440604	3.529841	0.000902	0.028408	-0.89551
ILMN_3188099	0.065714	7.34998	3.863033	0.000323	0.01604	0.057186
ILMN_2046024	0.065683	7.334315	3.916187	0.000273	0.014527	0.213442
ILMN_1744914	0.065605	7.926975	3.690574	0.000552	0.021556	-0.4419
ILMN_1795893	-0.06557	7.453639	-4.14633	0.00013	0.00893	0.902257
ILMN_1736340	-0.06557	8.446269	-4.08618	0.000158	0.010162	0.72038
ILMN_1659156	0.065536	6.381475	4.229499	9.95E-05	0.007326	1.155795
ILMN_1665554	-0.06547	6.731716	-3.48731	0.001026	0.030581	-1.01358
ILMN_2163790	-0.06546	5.714307	-3.30814	0.001744	0.042537	-1.50134
ILMN_2069821	0.065419	6.303886	3.88202	0.000304	0.015453	0.112876
ILMN_1779184	0.065413	6.575723	4.06933	0.000167	0.01058	0.669659
ILMN_1700896	0.065364	8.699259	3.769369	0.000433	0.018762	-0.21541
ILMN_1740165	-0.06524	7.584426	-3.3791	0.001416	0.03726	-1.31006
ILMN_1691333	-0.06519	6.389422	-3.63152	0.000662	0.02392	-0.60989
ILMN_1799488	-0.06498	6.664421	-3.59818	0.000733	0.025232	-0.70407
ILMN_1663493	0.064712	7.638221	3.294173	0.001817	0.043802	-1.53868
ILMN_1698365	0.064513	5.905556	3.507773	0.000964	0.029554	-0.95687
ILMN_1810474	0.064498	10.47726	3.70732	0.000525	0.020981	-0.39399
ILMN_2369682	0.064426	12.64903	3.854843	0.000331	0.016239	0.033209
ILMN_2231020	0.064348	8.699813	3.269324	0.001953	0.04609	-1.60489
ILMN_2139827	0.064279	6.49442	3.320888	0.00168	0.04148	-1.46715
ILMN_1666332	-0.06426	6.90698	-3.33724	0.001602	0.040464	-1.42319
ILMN_2319544	0.064242	6.139729	3.463722	0.001101	0.031813	-1.07868
ILMN_1654598	-0.06423	6.784462	-3.73085	0.000488	0.019993	-0.32647

ILMN_1747162	0.064149	9.333039	3.329654	0.001638	0.040884	-1.4436
ILMN_1665601	0.064001	7.153769	3.683017	0.000565	0.021901	-0.46348
ILMN_1774281	0.063911	6.209842	3.804382	0.000388	0.017711	-0.11392
ILMN_1670377	-0.06375	6.558711	-3.34428	0.001569	0.039976	-1.40423
ILMN_1791896	0.06369	9.982601	3.420645	0.001252	0.034412	-1.19689
ILMN_1714461	-0.06369	8.581909	-3.58855	0.000755	0.025654	-0.73117
ILMN_1764398	0.063515	6.95288	4.115434	0.000144	0.009592	0.808682
ILMN_1695917	-0.06342	9.13386	-3.5658	0.000809	0.026563	-0.79505
ILMN_1785177	0.063391	7.1096	3.292554	0.001825	0.043917	-1.54301
ILMN_1791302	0.063347	5.413727	4.132604	0.000136	0.009198	0.860651
ILMN_1689720	0.063267	6.837395	3.402436	0.001321	0.035549	-1.24659
ILMN_1658830	-0.06324	7.297197	-3.34922	0.001546	0.039545	-1.39091
ILMN_1787308	-0.0632	7.499074	-3.35696	0.001511	0.038913	-1.37
ILMN_1741564	-0.0632	8.096878	-3.54332	0.000866	0.027705	-0.85793
ILMN_1709162	0.063189	6.238882	3.590109	0.000752	0.025581	-0.72679
ILMN_1788377	-0.06318	5.678743	-3.43235	0.001209	0.033515	-1.16486
ILMN_1699082	0.062966	7.642711	3.961959	0.000236	0.01326	0.348878
ILMN_3188196	0.062908	5.65451	3.255248	0.002035	0.047268	-1.64225
ILMN_1679731	0.062822	7.707593	3.823294	0.000366	0.017054	-0.0589
ILMN_2090786	0.062746	6.199522	3.548545	0.000853	0.027472	-0.84333
ILMN_3262936	0.062673	7.718663	3.832143	0.000356	0.01681	-0.03311
ILMN_1670532	0.062658	7.726652	3.513801	0.000947	0.029309	-0.94013
ILMN_1776347	0.062628	11.11013	3.591046	0.000749	0.025581	-0.72415
ILMN_1720838	-0.06259	10.69731	-3.45741	0.001122	0.032173	-1.09605
ILMN_1673944	-0.06213	10.05075	-3.63269	0.00066	0.02392	-0.60658
ILMN_1781099	-0.06211	8.614731	-3.46597	0.001093	0.031729	-1.07248
ILMN_1670440	0.061995	5.638456	3.609197	0.000709	0.024854	-0.67301
ILMN_1705266	0.061939	7.110534	3.636466	0.000652	0.023869	-0.59589
ILMN_1805606	-0.06186	6.257124	-3.51159	0.000953	0.029425	-0.94628
ILMN_1750511	0.061781	7.313128	3.434558	0.001201	0.033496	-1.15881
ILMN_1667260	0.061702	8.447507	3.299543	0.001789	0.043394	-1.52433
ILMN_1667580	0.061651	6.044111	3.469596	0.001082	0.031466	-1.06249
ILMN_1787541	-0.06164	6.610779	-3.23057	0.002185	0.049532	-1.70749
ILMN_1814589	0.061504	7.199963	3.403528	0.001317	0.035527	-1.24361
ILMN_2230672	0.061464	10.81509	4.241311	9.57E-05	0.007252	1.191988
ILMN_2075892	0.061406	5.774836	3.616828	0.000693	0.024558	-0.65146
ILMN_1817545	-0.06114	6.080008	-3.37456	0.001435	0.037591	-1.32237
ILMN_1730660	-0.06106	6.511666	-3.60644	0.000715	0.024876	-0.68078
ILMN_1830985	-0.06098	5.98513	-3.26616	0.001971	0.046388	-1.61329
ILMN_1700238	-0.06096	6.866117	-3.29526	0.001811	0.04375	-1.53577
ILMN_2372698	-0.06093	6.023205	-3.64363	0.000638	0.023582	-0.57559
ILMN_3248057	-0.06093	6.076667	-4.69511	2.11E-05	0.002859	2.614286
ILMN_1744147	0.06092	10.12962	3.558384	0.000828	0.026893	-0.81581
ILMN_1739164	0.060837	5.841739	3.640808	0.000644	0.023685	-0.58358
ILMN_2357382	0.060778	6.740875	3.538402	0.000879	0.027964	-0.87165
ILMN_1737413	0.060707	7.554731	3.235142	0.002157	0.049076	-1.69544
ILMN_3203098	0.060493	6.27157	3.56542	0.00081	0.026563	-0.79611
ILMN_2038772	-0.06038	11.82935	-3.5371	0.000883	0.028023	-0.87528
ILMN_1813641	-0.06028	7.114735	-3.26189	0.001996	0.046713	-1.62464
ILMN_1674658	0.06016	5.345732	3.40227	0.001322	0.035549	-1.24704
ILMN_2354649	0.060028	7.613953	3.801668	0.000391	0.017767	-0.12181
ILMN_1675542	0.05991	9.312797	3.514212	0.000946	0.029299	-0.93899
ILMN_1656378	0.059787	7.057486	3.34782	0.001553	0.039678	-1.39468
ILMN_1750092	-0.0597	6.27336	-3.41801	0.001262	0.034602	-1.2041

ILMN_3242638	0.059596	6.533512	3.669249	0.00059	0.022452	-0.50274
ILMN_1672390	0.059505	6.340332	3.618653	0.000689	0.024533	-0.6463
ILMN_3234735	0.059402	6.842951	4.158921	0.000125	0.008701	0.940497
ILMN_1674908	-0.05909	6.39054	-3.65721	0.000612	0.022963	-0.537
ILMN_1786426	0.059071	6.398607	3.572366	0.000793	0.02627	-0.77663
ILMN_1756352	-0.05902	8.736713	-3.61498	0.000697	0.024558	-0.65667
ILMN_1668408	0.059008	6.832079	3.435293	0.001198	0.033496	-1.15679
ILMN_1747629	0.058983	5.737485	3.383939	0.001396	0.036814	-1.29691
ILMN_1837298	0.058946	6.160308	3.534183	0.000891	0.028141	-0.88341
ILMN_1679782	-0.05892	6.257648	-3.95873	0.000238	0.013337	0.33929
ILMN_2377733	0.05887	6.007639	3.362009	0.001489	0.038554	-1.35635
ILMN_3239162	-0.05884	5.864807	-3.32469	0.001662	0.041274	-1.45693
ILMN_1688753	0.058734	10.48571	3.456392	0.001125	0.032201	-1.09885
ILMN_1737144	0.058718	5.966924	3.98237	0.000221	0.012893	0.40953
ILMN_1785107	0.058678	7.490235	3.523131	0.000921	0.02878	-0.91419
ILMN_3247222	0.058449	5.894238	3.441937	0.001175	0.03317	-1.13857
ILMN_1776147	0.058319	8.433	3.717791	0.000508	0.020572	-0.36396
ILMN_1721337	0.058212	7.576043	3.784639	0.000413	0.018281	-0.17121
ILMN_1742962	0.058205	6.073157	3.405197	0.00131	0.035435	-1.23906
ILMN_1899940	0.058004	6.250459	3.591477	0.000748	0.025573	-0.72294
ILMN_1759789	0.057898	6.664458	3.341057	0.001584	0.040178	-1.41291
ILMN_1761474	0.057796	7.49856	3.58215	0.00077	0.025798	-0.74916
ILMN_1811301	-0.05768	7.229325	-3.40541	0.00131	0.035435	-1.23847
ILMN_2255310	0.057612	11.02611	3.819959	0.000369	0.017174	-0.06862
ILMN_3246944	0.057554	6.035575	3.665058	0.000598	0.022588	-0.51468
ILMN_3248562	0.057426	6.903549	3.459268	0.001115	0.032048	-1.09094
ILMN_1836218	0.057407	7.240125	3.357336	0.00151	0.038903	-1.36898
ILMN_1743131	-0.05733	7.581142	-3.68259	0.000566	0.021905	-0.4647
ILMN_1746893	0.057004	6.199842	3.305168	0.001759	0.042807	-1.50929
ILMN_3309754	-0.05694	5.824769	-3.29326	0.001822	0.043875	-1.54113
ILMN_1680403	-0.05694	10.4819	-3.23572	0.002153	0.049059	-1.69391
ILMN_1739876	-0.05694	9.891474	-3.59945	0.00073	0.025207	-0.70048
ILMN_1809883	0.05694	5.617203	3.793456	0.000401	0.018016	-0.14565
ILMN_1761721	0.056727	10.42	3.290282	0.001838	0.044148	-1.54907
ILMN_1737805	0.056591	5.529744	3.250966	0.00206	0.047634	-1.65359
ILMN_1676159	0.056459	9.37641	3.465393	0.001095	0.031757	-1.07407
ILMN_2105573	0.056319	6.023866	3.548289	0.000853	0.027472	-0.84404
ILMN_1748607	0.055987	5.781067	3.910426	0.000278	0.014712	0.196453
ILMN_1693843	0.055789	5.993364	3.760444	0.000445	0.019051	-0.24119
ILMN_1724504	0.055783	9.781237	3.566191	0.000808	0.026563	-0.79395
ILMN_3309869	0.05471	5.800399	3.860619	0.000325	0.016125	0.050115
ILMN_1771815	-0.05455	10.19336	-3.32116	0.001679	0.04148	-1.46642
ILMN_2395092	0.054458	5.953096	3.570663	0.000797	0.026314	-0.78141
ILMN_1654365	0.054374	5.770407	3.668802	0.000591	0.022452	-0.50402
ILMN_2247296	-0.05434	5.921464	-4.24445	9.47E-05	0.007245	1.201616
ILMN_1873261	-0.05433	5.92997	-3.30795	0.001745	0.042537	-1.50183
ILMN_1701940	-0.05432	7.001941	-3.26515	0.001977	0.046399	-1.61599
ILMN_1703949	0.054319	11.56885	3.254818	0.002037	0.047295	-1.64339
ILMN_1656427	-0.05427	6.98163	-3.41742	0.001264	0.034633	-1.2057
ILMN_1810608	0.054159	6.838954	3.437756	0.00119	0.033395	-1.15004
ILMN_1801905	-0.05416	6.675453	-3.25844	0.002016	0.046928	-1.63379
ILMN_1655052	0.054124	6.102045	3.365268	0.001475	0.038315	-1.34753
ILMN_3298462	0.053894	5.557262	4.237946	9.67E-05	0.007301	1.181674
ILMN_2173740	-0.05387	7.362773	-3.2411	0.00212	0.048485	-1.67968

ILMN_1738497	-0.0538	5.905921	-3.44157	0.001176	0.03317	-1.13958
ILMN_1765532	0.053798	7.495265	3.326105	0.001655	0.041192	-1.45314
ILMN_1749212	-0.05379	7.075685	-3.42347	0.001241	0.034179	-1.18918
ILMN_1806122	-0.05369	8.218411	-3.26197	0.001995	0.046713	-1.62441
ILMN_1738656	0.053567	9.319114	4.344388	6.82E-05	0.006106	1.50974
ILMN_3310401	-0.05348	5.717793	-3.4778	0.001055	0.031069	-1.03985
ILMN_2308689	0.053456	7.681956	3.341467	0.001582	0.040178	-1.41181
ILMN_2049642	0.053413	10.4411	3.793976	0.000401	0.01801	-0.14414
ILMN_1680682	0.053383	6.391218	3.503379	0.000977	0.029815	-0.96907
ILMN_3240117	-0.05315	10.03713	-3.87388	0.000312	0.015707	0.088973
ILMN_1719857	-0.05309	5.749521	-3.24832	0.002076	0.04784	-1.6606
ILMN_1808132	0.052797	6.072595	3.704148	0.00053	0.021039	-0.40307
ILMN_1739454	0.052762	7.317376	3.938978	0.000254	0.013842	0.28078
ILMN_1755911	0.052438	6.392163	4.003544	0.000207	0.012278	0.472613
ILMN_2221336	0.051708	6.184475	3.607915	0.000712	0.024854	-0.67662
ILMN_2187746	0.051644	6.165204	3.36806	0.001463	0.038145	-1.33997
ILMN_2044645	-0.05159	6.215112	-3.37913	0.001416	0.03726	-1.30996
ILMN_1663024	0.051512	5.277935	4.388275	5.90E-05	0.005509	1.646034
ILMN_2065299	-0.05151	7.599916	-3.27362	0.001929	0.045612	-1.59347
ILMN_2311873	-0.05126	5.907227	-3.58319	0.000768	0.025767	-0.74625
ILMN_1907966	0.051222	6.077735	3.613084	0.000701	0.024636	-0.66203
ILMN_1656327	-0.05113	5.591198	-3.43496	0.001199	0.033496	-1.1577
ILMN_1757825	-0.05106	5.640296	-3.31474	0.001711	0.042101	-1.48366
ILMN_1683798	0.051004	6.135779	3.837325	0.00035	0.016658	-0.01799
ILMN_1861270	-0.05097	6.065112	-3.40706	0.001303	0.03535	-1.23399
ILMN_2048477	-0.05061	5.872809	-3.25684	0.002025	0.047115	-1.63804
ILMN_1801572	-0.05051	5.635066	-3.87846	0.000307	0.015581	0.102431
ILMN_1766247	0.049839	6.790934	3.477519	0.001056	0.031069	-1.04063
ILMN_1714527	-0.04968	9.882828	-3.42876	0.001222	0.033786	-1.17469
ILMN_1794987	0.049666	6.293463	3.48748	0.001025	0.030581	-1.0131
ILMN_2415572	-0.0494	5.916209	-3.38746	0.001381	0.036517	-1.28734
ILMN_1777060	0.049396	6.197064	3.493753	0.001006	0.030395	-0.99574
ILMN_1662021	0.049054	6.452101	3.38989	0.001371	0.036422	-1.28074
ILMN_2261099	0.048482	5.366453	3.412996	0.00128	0.034925	-1.21779
ILMN_1776325	-0.04844	7.337166	-3.43524	0.001198	0.033496	-1.15693
ILMN_3248069	-0.04828	13.81881	-3.51549	0.000942	0.029212	-0.93544
ILMN_3235148	0.048138	12.98194	3.29506	0.001812	0.04375	-1.53631
ILMN_1748407	0.048123	6.545728	3.332647	0.001623	0.040674	-1.43556
ILMN_1802766	0.048106	6.196487	3.496112	0.000999	0.03026	-0.98921
ILMN_1787193	-0.048	5.464581	-3.39399	0.001355	0.03607	-1.26958
ILMN_2395981	-0.04793	6.196733	-3.45747	0.001122	0.032173	-1.0959
ILMN_2382558	0.047558	6.634568	3.421302	0.001249	0.034372	-1.19509
ILMN_1680703	0.047456	10.15744	3.564625	0.000812	0.026563	-0.79833
ILMN_1651310	0.047223	5.64281	3.354328	0.001523	0.039187	-1.37711
ILMN_2144352	0.047113	6.173444	3.282606	0.001879	0.044661	-1.56954
ILMN_1730791	0.047039	6.350792	3.48274	0.00104	0.030849	-1.0262
ILMN_1750469	-0.04698	5.396838	-3.3328	0.001623	0.040674	-1.43515
ILMN_1677815	-0.04677	5.463739	-3.28251	0.00188	0.044661	-1.5698
ILMN_3263072	-0.04675	5.719879	-3.29313	0.001822	0.043875	-1.54148
ILMN_1670715	-0.04635	5.830224	-3.29621	0.001806	0.043695	-1.53324
ILMN_2388090	0.046143	5.945175	3.509002	0.000961	0.029523	-0.95346
ILMN_1791078	0.045855	5.184899	3.259839	0.002008	0.046877	-1.63007
ILMN_2163723	0.045843	5.592985	3.407223	0.001303	0.03535	-1.23354
ILMN_1697512	-0.04549	5.89182	-3.30871	0.001741	0.042537	-1.49981

ILMN_1694414	0.04496	5.429101	3.401469	0.001325	0.035568	-1.24922
ILMN_1712530	0.044705	8.099304	3.401023	0.001327	0.035569	-1.25044
ILMN_1737498	0.044274	6.296438	3.360911	0.001494	0.038607	-1.35932
ILMN_2049672	-0.0441	5.240343	-3.60686	0.000714	0.024876	-0.6796
ILMN_2408764	-0.04356	5.412849	-3.60787	0.000712	0.024854	-0.67676
ILMN_1840894	0.043502	6.436331	3.243958	0.002102	0.048158	-1.67214
ILMN_1767433	0.042732	6.231968	3.259041	0.002012	0.046877	-1.63219
ILMN_1827968	-0.04266	6.000498	-3.77051	0.000431	0.018733	-0.2121
ILMN_1765729	0.042419	6.196997	3.284876	0.001867	0.044569	-1.56349
ILMN_1887128	0.042084	6.128285	3.345266	0.001564	0.03991	-1.40157
ILMN_1748141	0.042007	6.114728	3.28873	0.001846	0.044255	-1.55321
ILMN_1788625	0.041414	6.60099	3.290554	0.001836	0.044143	-1.54834
ILMN_1817251	0.041404	5.987984	3.442482	0.001173	0.033169	-1.13708
ILMN_1706758	-0.04137	5.513889	-3.44413	0.001167	0.033144	-1.13256
ILMN_2163187	0.040297	5.70899	3.472954	0.001071	0.03123	-1.05323
ILMN_1736234	0.039261	8.677606	3.489328	0.001019	0.030581	-1.00799
ILMN_1766565	-0.03923	5.405056	-3.39722	0.001342	0.035945	-1.26079
ILMN_3265439	-0.03847	5.761817	-3.40664	0.001305	0.035367	-1.23513
ILMN_3246292	0.035704	13.61235	3.402413	0.001321	0.035549	-1.24665

Supplementary Table S3. Genes showing significant concentration-dependent associations with levels of HPV16 E6 protein in the W12 clones, after exclusion of known p53 targets.

	logFC	AveExpr	t	P.Value	adj.P.Val	B
ILMN_1768176	-1.03382	9.695149	-8.95765	5.63E-12	1.94E-07	16.72703
ILMN_1762899	-0.87966	11.10572	-6.27406	8.15E-08	6.25E-05	7.840583
ILMN_1718387	0.807518	7.067937	4.841749	1.28E-05	0.001949	3.122794
ILMN_1743199	-0.73382	8.006812	-5.5079	1.26E-06	0.000411	5.286692
ILMN_2096372	0.704396	6.843431	5.770864	4.94E-07	0.000216	6.157963
ILMN_1751607	-0.69388	8.653658	-4.02154	0.000195	0.012565	0.596512
ILMN_1693192	0.668337	10.53244	3.590024	0.000752	0.030491	-0.6419
ILMN_2188264	-0.63646	9.77076	-5.06548	5.91E-06	0.001252	3.841039
ILMN_1795930	-0.60207	8.793098	-4.89311	1.07E-05	0.001805	3.286776
ILMN_1693338	0.59907	8.093769	4.561861	3.30E-05	0.003717	2.239748
ILMN_1709348	0.573429	6.659982	6.073941	1.67E-07	0.000101	7.16964
ILMN_1801307	-0.56904	7.782393	-6.39114	5.35E-08	4.99E-05	8.233819
ILMN_1682775	-0.55521	9.613886	-6.35117	6.18E-08	5.32E-05	8.099527
ILMN_1705750	0.547466	9.719861	4.659485	2.38E-05	0.003001	2.545607
ILMN_1687768	-0.51624	10.72609	-4.09663	0.000153	0.010842	0.819255
ILMN_1682717	-0.50735	10.41325	-7.48282	1.05E-09	6.22E-06	11.89755
ILMN_1796316	0.50097	6.699623	3.60312	0.000722	0.029718	-0.60545
ILMN_1725338	-0.48667	7.689723	-5.26734	2.93E-06	0.000776	4.496938
ILMN_2166457	-0.47841	7.79733	-4.92266	9.68E-06	0.001702	3.381389
ILMN_1810835	-0.47277	11.7065	-3.40852	0.001298	0.042085	-1.13906
ILMN_1718977	-0.47091	8.552016	-6.83648	1.07E-08	1.95E-05	9.73125
ILMN_1722781	-0.46471	7.165493	-4.85394	1.23E-05	0.00192	3.16166
ILMN_1744604	0.45631	7.452409	3.464024	0.0011	0.037789	-0.98865
ILMN_1737406	-0.45431	10.1444	-6.67892	1.90E-08	2.84E-05	9.201421
ILMN_1702691	-0.43746	8.552129	-3.84523	0.000341	0.018239	0.081581
ILMN_3310326	-0.43645	8.573468	-6.20962	1.03E-07	7.38E-05	7.624351
ILMN_1682636	-0.41617	7.259545	-4.82506	1.35E-05	0.00201	3.069632
ILMN_1803811	-0.41345	10.1098	-4.89073	1.08E-05	0.001808	3.279161
ILMN_1791726	0.412745	7.649643	4.950285	8.80E-06	0.001614	3.469978
ILMN_1756417	-0.41226	8.04264	-6.432	4.62E-08	4.55E-05	8.371157
ILMN_1730223	-0.40347	8.039239	-5.23925	3.23E-06	0.000815	4.40528
ILMN_2150851	-0.39394	11.4861	-3.98027	0.000222	0.013772	0.474933
ILMN_2372082	-0.39154	6.926074	-4.68676	2.17E-05	0.002838	2.631475
ILMN_2401873	-0.38456	8.387228	-7.0614	4.78E-09	1.50E-05	10.48682
ILMN_2407389	-0.384	8.461271	-3.79291	0.000402	0.020087	-0.06896
ILMN_2197365	-0.37526	11.64348	-3.9879	0.000217	0.013562	0.497356
ILMN_1687978	-0.3748	9.9823	-4.05453	0.000175	0.011904	0.694121
ILMN_1692056	0.374319	7.887779	3.323063	0.00167	0.048443	-1.36774
ILMN_1671891	0.372118	7.065516	6.178178	1.15E-07	8.09E-05	7.518901
ILMN_3236367	-0.36952	9.576271	-4.43486	5.05E-05	0.004975	1.845619
ILMN_1801205	-0.36816	9.373757	-3.36587	0.001472	0.044915	-1.25363
ILMN_2091375	-0.36729	7.420736	-6.09985	1.52E-07	9.55E-05	7.256412
ILMN_2150856	-0.36279	12.20645	-4.226	0.000101	0.008103	1.207578
ILMN_1703123	-0.36254	9.308187	-4.86858	1.17E-05	0.001878	3.208387
ILMN_2348268	-0.36098	7.610188	-4.39821	5.70E-05	0.005463	1.732707
ILMN_1728677	-0.35577	6.90659	-4.31564	7.50E-05	0.006573	1.479802
ILMN_1815023	-0.35031	9.555022	-6.59904	2.53E-08	3.23E-05	8.93277
ILMN_2401878	-0.34689	8.20921	-7.28301	2.15E-09	8.24E-06	11.22969
ILMN_2255133	-0.34159	7.332635	-3.91723	0.000272	0.015534	0.290434
ILMN_1660000	-0.34137	7.522968	-5.25443	3.06E-06	0.000792	4.454812

ILMN_1781285	-0.34061	10.96082	-4.56122	3.31E-05	0.003717	2.237736
ILMN_1685663	0.340197	5.625189	6.886444	8.98E-09	1.76E-05	9.899184
ILMN_1772910	0.337649	8.398031	5.237567	3.25E-06	0.000815	4.399786
ILMN_1735014	-0.33475	11.25498	-5.38421	1.94E-06	0.000582	4.879647
ILMN_2318643	-0.33244	9.45439	-5.55689	1.06E-06	0.000368	5.448442
ILMN_2062701	0.331769	7.849424	5.899252	3.12E-07	0.00015	6.585714
ILMN_1781400	0.325712	6.351035	4.663803	2.34E-05	0.002972	2.559191
ILMN_2041190	-0.3207	10.1174	-6.13422	1.35E-07	9.11E-05	7.371555
ILMN_1745620	-0.32063	8.115913	-5.10287	5.19E-06	0.001155	3.962017
ILMN_2410145	-0.31926	6.066737	-3.90337	0.000284	0.015977	0.250072
ILMN_1782305	-0.3176	7.577045	-3.58188	0.000771	0.031037	-0.66453
ILMN_1665510	-0.31718	11.87829	-5.21583	3.50E-06	0.000863	4.328925
ILMN_1680139	-0.31587	8.145183	-4.52179	3.78E-05	0.004096	2.114932
ILMN_2318638	-0.31557	10.52254	-5.0145	7.05E-06	0.001405	3.676507
ILMN_1664922	0.310727	10.29266	4.153402	0.000127	0.009448	0.988979
ILMN_1760990	0.310301	6.710187	4.838381	1.29E-05	0.001963	3.11206
ILMN_1672295	-0.30925	8.098478	-4.56162	3.31E-05	0.003717	2.238984
ILMN_1669046	-0.30916	10.18236	-4.91511	9.93E-06	0.00173	3.357196
ILMN_1702127	0.30797	5.68991	6.32169	6.87E-08	5.64E-05	8.000517
ILMN_1800317	0.306635	6.100468	4.539929	3.56E-05	0.003963	2.171373
ILMN_1769201	-0.30486	7.974047	-3.60744	0.000713	0.02954	-0.59341
ILMN_1660067	-0.30206	7.137712	-4.27108	8.68E-05	0.007193	1.34415
ILMN_2203950	-0.30157	11.32692	-7.38567	1.49E-09	7.32E-06	11.57312
ILMN_1752899	-0.30078	7.611663	-4.66345	2.34E-05	0.002972	2.558078
ILMN_1806023	-0.29735	10.0989	-3.5611	0.000821	0.032122	-0.72215
ILMN_2094776	-0.29494	8.956537	-4.36015	6.47E-05	0.005918	1.615886
ILMN_1700978	-0.29442	6.835207	-4.38882	5.89E-05	0.005605	1.703833
ILMN_1693341	-0.28327	7.031799	-4.70825	2.01E-05	0.002728	2.699274
ILMN_1750062	0.282182	6.425835	3.937477	0.000255	0.015076	0.349533
ILMN_2404746	-0.28108	7.008499	-5.04043	6.45E-06	0.00133	3.760124
ILMN_2396020	-0.27892	10.40616	-3.37148	0.001448	0.044612	-1.23861
ILMN_2241124	-0.27586	7.144788	-3.6033	0.000722	0.029718	-0.60495
ILMN_1769520	-0.27388	8.983307	-3.53169	0.000897	0.03384	-0.80333
ILMN_1683475	0.273863	10.1368	6.880086	9.18E-09	1.76E-05	9.877815
ILMN_2148469	0.273003	8.810091	4.903693	1.03E-05	0.001773	3.32064
ILMN_1680132	0.271115	6.11318	4.746584	1.77E-05	0.002488	2.820471
ILMN_1802205	-0.27019	9.479563	-4.63939	2.54E-05	0.003133	2.482441
ILMN_1656057	-0.26939	10.21881	-6.06561	1.72E-07	0.000102	7.14174
ILMN_1683129	-0.26888	8.083049	-4.57886	3.12E-05	0.003609	2.292819
ILMN_1734929	-0.26869	9.387229	-4.28463	8.30E-05	0.006963	1.385333
ILMN_1721218	-0.26379	13.55456	-5.03088	6.66E-06	0.001345	3.729314
ILMN_1740466	-0.26359	8.466511	-3.6012	0.000727	0.029821	-0.61081
ILMN_1798826	0.263082	7.326562	5.572684	9.98E-07	0.000355	5.50065
ILMN_1776936	0.259812	6.817782	3.38528	0.00139	0.043808	-1.20161
ILMN_1778360	0.259386	10.85475	4.363111	6.41E-05	0.005894	1.624952
ILMN_1814215	0.258621	7.380656	3.748624	0.000461	0.022006	-0.19548
ILMN_1741159	-0.25759	6.520576	-4.63418	2.59E-05	0.003165	2.466102
ILMN_1672094	0.25669	6.754803	5.644283	7.75E-07	0.0003	5.737665
ILMN_2108735	0.256349	6.308979	3.902732	0.000285	0.015983	0.24822
ILMN_1708934	-0.25553	11.66936	-3.83767	0.000349	0.018505	0.059764
ILMN_2117171	-0.25546	10.7705	-6.36585	5.86E-08	5.32E-05	8.148862
ILMN_1765860	-0.25538	6.948261	-4.13747	0.000134	0.009865	0.941244
ILMN_1652580	0.253064	7.794553	8.102251	1.15E-10	1.32E-06	13.95083
ILMN_1769839	0.25285	5.604133	6.128481	1.38E-07	9.11E-05	7.352318

ILMN_1778561	-0.25082	9.533894	-4.57055	3.21E-05	0.003674	2.266872
ILMN_2339955	-0.25069	7.058355	-3.59767	0.000734	0.030072	-0.62061
ILMN_1703180	-0.25033	7.621498	-3.922	0.000268	0.015534	0.304351
ILMN_1703891	-0.24998	8.40525	-7.06577	4.70E-09	1.50E-05	10.50148
ILMN_1767365	-0.24925	7.134126	-5.31627	2.46E-06	0.000708	4.656915
ILMN_1745471	-0.24804	9.161866	-3.3681	0.001462	0.044858	-1.24766
ILMN_1708130	-0.24728	8.245502	-5.02869	6.71E-06	0.001346	3.722271
ILMN_1716988	-0.24717	8.836059	-3.36154	0.001491	0.045292	-1.26521
ILMN_1671895	0.245309	6.998514	6.332541	6.61E-08	5.56E-05	8.036961
ILMN_3268403	0.244386	5.923422	8.654311	1.63E-11	2.81E-07	15.75172
ILMN_2086077	-0.2431	8.675336	-3.43538	0.001198	0.039828	-1.06647
ILMN_2326712	-0.24246	7.108977	-4.47627	4.40E-05	0.004541	1.973628
ILMN_1797236	0.241859	6.569355	4.725654	1.90E-05	0.002638	2.754254
ILMN_1742166	0.240845	8.381935	5.346771	2.21E-06	0.000652	4.756829
ILMN_1716446	-0.23767	7.655153	-4.80927	1.43E-05	0.002095	3.019381
ILMN_1675616	-0.23565	6.875555	-3.89156	0.000295	0.016344	0.215735
ILMN_2130411	0.233589	9.58704	4.65257	2.43E-05	0.003061	2.523861
ILMN_1765876	-0.23238	6.010988	-4.58813	3.02E-05	0.003534	2.321806
ILMN_1744239	-0.23034	7.234171	-6.78063	1.31E-08	2.27E-05	9.543456
ILMN_3310840	-0.22884	7.508302	-3.93366	0.000258	0.015209	0.338395
ILMN_2048633	-0.2287	6.738295	-5.3857	1.93E-06	0.000582	4.88454
ILMN_1800225	0.228522	7.195323	3.5409	0.000873	0.033133	-0.77795
ILMN_1815079	-0.22815	7.332429	-3.51247	0.000951	0.034911	-0.8562
ILMN_1675992	-0.22797	7.571294	-5.50029	1.29E-06	0.000412	5.261591
ILMN_2391264	0.227488	9.11132	3.701895	0.000533	0.024369	-0.32812
ILMN_1674620	-0.22676	8.612633	-4.50185	4.04E-05	0.004285	2.052949
ILMN_1778319	0.225956	9.088586	3.50222	0.000981	0.035476	-0.8843
ILMN_1813489	0.225848	7.79926	6.313999	7.06E-08	5.66E-05	7.97469
ILMN_2229379	-0.22567	6.13363	-3.56712	0.000806	0.03191	-0.70546
ILMN_1758213	0.225133	7.772904	5.891516	3.21E-07	0.000151	6.559904
ILMN_1759184	0.22512	9.801106	4.806981	1.44E-05	0.002102	3.012107
ILMN_1736729	-0.22441	6.390611	-3.36988	0.001455	0.044742	-1.2429
ILMN_1701837	-0.22393	8.208807	-6.43845	4.51E-08	4.55E-05	8.392816
ILMN_2285404	0.223459	9.479853	3.969103	0.000231	0.01406	0.442146
ILMN_3247848	0.223135	6.89447	4.776816	1.60E-05	0.002291	2.91629
ILMN_1786429	-0.22311	8.409264	-3.50608	0.000969	0.035251	-0.87372
ILMN_1720373	0.222294	11.35699	4.863951	1.18E-05	0.001881	3.193611
ILMN_1683127	-0.22173	9.525091	-3.60572	0.000717	0.029624	-0.5982
ILMN_2103397	0.221546	6.499243	5.637934	7.92E-07	0.000303	5.716625
ILMN_1805064	-0.2211	7.068874	-3.54303	0.000867	0.033102	-0.77207
ILMN_2191568	0.221059	8.435229	5.503112	1.28E-06	0.000411	5.270902
ILMN_1738759	0.220462	8.423502	7.643064	5.90E-10	5.09E-06	12.43144
ILMN_1719204	0.220104	9.238663	6.026292	1.98E-07	0.000112	7.010176
ILMN_1800573	0.215836	11.20054	4.014893	0.000199	0.012768	0.576886
ILMN_1669113	0.215551	7.508813	5.291409	2.69E-06	0.000748	4.575597
ILMN_1705302	0.2149	6.800363	3.743804	0.000468	0.022277	-0.2092
ILMN_3223181	0.214885	8.419154	4.188107	0.000114	0.008774	1.093256
ILMN_1762275	0.214858	7.5074	5.87017	3.47E-07	0.000159	6.488707
ILMN_1844611	0.214577	6.621864	6.353854	6.12E-08	5.32E-05	8.108555
ILMN_1680453	0.214413	7.924674	4.24876	9.34E-05	0.007589	1.276446
ILMN_2168520	-0.21417	7.828221	-3.7321	0.000486	0.022942	-0.24248
ILMN_1702609	-0.21403	8.422294	-4.40067	5.66E-05	0.005449	1.740287
ILMN_1686555	0.213184	6.820999	4.425712	5.21E-05	0.0051	1.8174
ILMN_2365595	-0.21305	9.784162	-5.19802	3.73E-06	0.000899	4.270947

ILMN_1701331	0.211983	9.805817	7.313114	1.93E-09	8.24E-06	11.33046
ILMN_2383484	0.21142	8.386668	5.809561	4.30E-07	0.000193	6.286748
ILMN_1722634	0.211185	10.63075	4.449875	4.80E-05	0.004816	1.891981
ILMN_1668629	0.211152	9.24065	3.597223	0.000735	0.030077	-0.62187
ILMN_2396982	0.21085	9.162116	6.050179	1.82E-07	0.000106	7.090099
ILMN_1691731	-0.21033	6.980087	-3.57931	0.000777	0.031208	-0.67165
ILMN_1724181	-0.21008	6.919197	-4.97365	8.12E-06	0.001544	3.545032
ILMN_1799890	0.209114	8.428338	4.974736	8.09E-06	0.001544	3.548524
ILMN_1740429	0.208858	12.17058	3.860684	0.000325	0.017647	0.126232
ILMN_1808713	0.208271	5.671269	4.202028	0.000109	0.008524	1.135196
ILMN_2307450	0.208056	8.411141	3.997351	0.000211	0.013255	0.525175
ILMN_2178855	0.206915	7.786853	5.127087	4.77E-06	0.001087	4.040485
ILMN_1662640	0.206595	9.417851	3.974895	0.000226	0.01391	0.459146
ILMN_1700109	0.205742	9.491388	4.03934	0.000184	0.012201	0.649131
ILMN_1679093	0.205328	9.146616	3.763036	0.000441	0.021449	-0.15439
ILMN_1808777	0.205162	8.520059	4.503022	4.02E-05	0.004281	2.056601
ILMN_1677919	-0.20408	8.942454	-5.13596	4.63E-06	0.001068	4.069263
ILMN_1772981	0.204013	10.56743	5.902338	3.09E-07	0.00015	6.596011
ILMN_1653358	-0.20323	6.534286	-3.3976	0.00134	0.042747	-1.1685
ILMN_2074748	0.202406	6.155482	5.343068	2.24E-06	0.000655	4.744693
ILMN_1754842	0.20212	7.573756	4.868569	1.17E-05	0.001878	3.208355
ILMN_1794190	-0.20197	6.986232	-4.46534	4.56E-05	0.00468	1.939801
ILMN_1752953	0.201267	8.974141	5.614121	8.62E-07	0.000323	5.637752
ILMN_1690105	-0.20106	8.328354	-3.33759	0.0016	0.047389	-1.32912
ILMN_1775962	-0.20082	7.38938	-4.45582	4.71E-05	0.00479	1.910353
ILMN_1684964	0.200763	7.346486	4.236896	9.71E-05	0.007856	1.24052
ILMN_2381197	-0.20059	7.79262	-4.9057	1.03E-05	0.001773	3.327072
ILMN_1703330	-0.20049	8.192523	-3.91776	0.000271	0.015534	0.29198
ILMN_1736575	0.200006	8.552527	4.937363	9.20E-06	0.001652	3.428517
ILMN_1770537	0.199743	6.388881	5.586075	9.52E-07	0.000342	5.544937
ILMN_1755909	0.199555	9.400336	6.416282	4.89E-08	4.68E-05	8.318317
ILMN_2285817	-0.19951	9.961391	-3.83166	0.000356	0.018691	0.042439
ILMN_1683635	-0.19937	7.995629	-3.63033	0.000665	0.028015	-0.52947
ILMN_3235325	0.199317	6.910267	3.529837	0.000902	0.03396	-0.80844
ILMN_1693421	0.1992	9.359146	6.459711	4.18E-08	4.37E-05	8.464292
ILMN_2301083	0.19913	10.92932	4.834955	1.31E-05	0.001977	3.101144
ILMN_2120022	-0.19867	7.027162	-4.02655	0.000192	0.012526	0.611297
ILMN_1697218	0.198196	8.347213	5.058721	6.05E-06	0.001272	3.819194
ILMN_1676515	0.197903	7.899452	3.692502	0.000549	0.024798	-0.35467
ILMN_1658425	0.197032	8.352206	5.248425	3.13E-06	0.000798	4.435204
ILMN_1674034	-0.19643	8.200939	-4.31745	7.45E-05	0.006553	1.485324
ILMN_1675709	0.195906	7.207505	6.653702	2.08E-08	2.87E-05	9.116617
ILMN_2061732	-0.19519	9.634742	-4.02326	0.000194	0.012553	0.601599
ILMN_3247018	-0.19483	8.265002	-5.99347	2.23E-07	0.000122	6.90042
ILMN_1704793	0.194785	8.555961	4.669246	2.30E-05	0.002936	2.576319
ILMN_1676631	0.194407	6.992579	3.463795	0.0011	0.037789	-0.98928
ILMN_2173611	0.193725	12.17228	3.807335	0.000384	0.019694	-0.02755
ILMN_1738681	0.19294	10.25065	6.114714	1.44E-07	9.22E-05	7.306192
ILMN_1703487	-0.19257	8.843029	-4.56564	3.26E-05	0.003717	2.251535
ILMN_2392370	0.192392	6.342761	3.595252	0.00074	0.030187	-0.62736
ILMN_1691436	-0.19208	9.590865	-4.60436	2.86E-05	0.003415	2.372605
ILMN_1764571	0.191231	10.18131	3.615479	0.000696	0.028963	-0.57098
ILMN_1656933	0.191167	6.331613	4.477424	4.38E-05	0.004538	1.977217
ILMN_1669479	0.191121	7.352698	3.574264	0.000789	0.031452	-0.68566

ILMN_1665831	0.189996	8.995949	4.524969	3.74E-05	0.004072	2.124809
ILMN_2183409	0.18901	8.259481	4.319412	7.40E-05	0.006528	1.491297
ILMN_1656670	-0.18857	6.613323	-5.73256	5.66E-07	0.000235	6.030603
ILMN_1715401	0.188487	8.08212	3.472876	0.001071	0.03739	-0.96453
ILMN_1710752	-0.18813	8.511522	-4.88736	1.09E-05	0.001811	3.268396
ILMN_1789642	0.188095	6.892939	5.311884	2.50E-06	0.000713	4.64257
ILMN_1811195	0.188049	6.387587	4.621262	2.70E-05	0.003271	2.425565
ILMN_1694111	0.1879	8.130744	5.339762	2.27E-06	0.000657	4.733859
ILMN_1810467	0.187843	10.56074	4.848859	1.25E-05	0.001927	3.145461
ILMN_1815306	0.187757	7.293171	5.737409	5.56E-07	0.000234	6.046731
ILMN_1913510	0.187665	6.677522	4.039633	0.000184	0.012201	0.65
ILMN_1679401	0.187491	7.031703	4.375481	6.15E-05	0.005732	1.662888
ILMN_2204467	0.187172	5.783277	3.472004	0.001074	0.037399	-0.96691
ILMN_1685540	0.187144	7.832534	4.866844	1.17E-05	0.00188	3.202847
ILMN_1684873	-0.18681	6.878608	-3.71091	0.000519	0.023964	-0.3026
ILMN_1704418	-0.18673	7.854408	-3.60203	0.000725	0.029781	-0.60849
ILMN_2408566	-0.1865	6.390289	-3.49429	0.001004	0.035992	-0.90602
ILMN_1706342	0.186336	7.352996	4.104384	0.000149	0.010661	0.842382
ILMN_2048478	0.186003	6.143759	4.949481	8.83E-06	0.001614	3.467399
ILMN_1658989	0.185825	6.267611	5.972922	2.40E-07	0.000125	6.831728
ILMN_2411897	-0.18571	7.291889	-3.91383	0.000275	0.015619	0.280544
ILMN_1746494	-0.18567	7.881911	-4.30253	7.83E-05	0.006729	1.439812
ILMN_1672504	0.185439	9.839358	4.481865	4.32E-05	0.004511	1.990976
ILMN_1731720	0.18528	7.562784	5.004482	7.30E-06	0.001422	3.644236
ILMN_1671191	0.185117	10.86306	4.712733	1.98E-05	0.002726	2.713431
ILMN_1907834	-0.18486	8.321906	-3.70227	0.000533	0.024369	-0.32706
ILMN_1715476	0.184802	9.924509	4.832868	1.32E-05	0.001983	3.094494
ILMN_2045994	0.184523	8.174052	5.06525	5.91E-06	0.001252	3.840292
ILMN_1676026	0.183751	8.684089	4.929238	9.46E-06	0.001673	3.402464
ILMN_2367191	0.183402	9.505748	4.685883	2.17E-05	0.002838	2.628721
ILMN_2173294	-0.18334	6.696235	-4.37644	6.13E-05	0.005729	1.665827
ILMN_2366041	0.183227	7.879147	4.769074	1.64E-05	0.002343	2.891731
ILMN_1701731	0.183105	9.033921	4.410899	5.47E-05	0.005297	1.771758
ILMN_1773154	-0.18285	11.15561	-3.72109	0.000503	0.023418	-0.27374
ILMN_1804822	0.182836	8.721351	3.770641	0.000431	0.021134	-0.13267
ILMN_1762284	0.182677	5.861403	6.463156	4.13E-08	4.37E-05	8.475871
ILMN_1692790	-0.18232	8.579602	-5.20682	3.61E-06	0.000884	4.299579
ILMN_1759175	-0.18216	6.883299	-5.73779	5.56E-07	0.000234	6.047989
ILMN_1699570	0.181596	9.942182	6.074689	1.67E-07	0.000101	7.172143
ILMN_2363273	0.181107	7.012101	4.304059	7.79E-05	0.006712	1.444479
ILMN_2405680	-0.18109	7.10555	-3.62337	0.000679	0.028507	-0.54893
ILMN_2372639	-0.18043	8.914962	-3.65524	0.000616	0.026807	-0.45962
ILMN_3297880	0.179973	8.630585	4.112943	0.000145	0.010435	0.86792
ILMN_1763605	0.17932	6.9534	6.890572	8.84E-09	1.76E-05	9.913057
ILMN_1751886	-0.17897	6.981708	-3.36696	0.001467	0.044915	-1.25072
ILMN_1807833	0.17857	8.049537	6.275391	8.11E-08	6.25E-05	7.845061
ILMN_1730906	-0.17854	7.259968	-3.65798	0.000611	0.02665	-0.45194
ILMN_2410772	-0.17831	8.289186	-4.96176	8.46E-06	0.001593	3.50684
ILMN_2375360	-0.17815	7.721413	-3.7974	0.000396	0.02001	-0.05608
ILMN_1790160	-0.1778	6.571739	-3.99516	0.000212	0.013299	0.51873
ILMN_1786976	0.17774	8.587619	5.100876	5.23E-06	0.001155	3.955546
ILMN_1664608	0.177569	8.508847	4.731513	1.86E-05	0.002598	2.772779
ILMN_2278653	0.177359	6.360961	5.055751	6.11E-06	0.001277	3.809601
ILMN_1692100	0.176841	7.14129	4.398596	5.70E-05	0.005463	1.733899

ILMN_1801442	0.176668	6.102062	4.128634	0.000138	0.010087	0.914804
ILMN_1709044	0.176641	6.638544	4.415896	5.38E-05	0.005254	1.787148
ILMN_2132458	-0.17657	6.416718	-3.43916	0.001185	0.03959	-1.0562
ILMN_1688154	0.175568	6.980757	3.562912	0.000816	0.032056	-0.71712
ILMN_2334350	0.175562	8.363866	4.077985	0.000163	0.011215	0.763771
ILMN_1679655	0.175524	8.886264	3.498224	0.000992	0.035741	-0.89525
ILMN_1666078	-0.17499	7.427113	-6.21834	9.96E-08	7.31E-05	7.653598
ILMN_2201347	0.174985	7.533335	4.972513	8.15E-06	0.001544	3.541379
ILMN_2095704	0.174738	6.640483	3.422096	0.001246	0.040958	-1.10241
ILMN_1714730	0.174704	10.85933	4.168721	0.000121	0.009087	1.034957
ILMN_1794643	0.174571	7.454543	5.560479	1.04E-06	0.000367	5.460306
ILMN_1771233	0.174517	8.313767	6.470291	4.02E-08	4.37E-05	8.499858
ILMN_1697363	0.174309	8.470232	3.520852	0.000927	0.034592	-0.83316
ILMN_1677534	0.17419	8.546457	3.366014	0.001472	0.044915	-1.25325
ILMN_1652677	-0.17391	8.342189	-3.3957	0.001348	0.042868	-1.17359
ILMN_1729225	0.173908	6.254295	3.477504	0.001056	0.036968	-0.9519
ILMN_1722811	0.173901	7.815689	3.311124	0.001729	0.049265	-1.3994
ILMN_1802615	0.173846	9.055348	3.418623	0.001259	0.041228	-1.1118
ILMN_3236061	0.173539	6.878669	4.314972	7.51E-05	0.006573	1.47775
ILMN_2324056	0.173418	9.370995	3.687029	0.000558	0.024842	-0.37013
ILMN_1816342	-0.17299	7.914214	-3.83787	0.000349	0.018505	0.060324
ILMN_1806790	0.172863	7.722227	4.051389	0.000177	0.011939	0.684819
ILMN_2120340	0.172707	8.387977	5.267454	2.92E-06	0.000776	4.497322
ILMN_1660973	-0.17264	6.450034	-3.4078	0.0013	0.042135	-1.14101
ILMN_2234343	0.172509	6.551563	3.954537	0.000242	0.014507	0.399445
ILMN_2081398	0.17235	7.795199	5.985085	2.30E-07	0.000124	6.872378
ILMN_1744046	-0.17216	7.48544	-5.01294	7.09E-06	0.001405	3.671498
ILMN_1778374	-0.17183	10.17323	-4.90213	1.04E-05	0.001773	3.315629
ILMN_2382829	0.171691	9.007533	6.150213	1.27E-07	8.77E-05	7.425149
ILMN_2105308	0.171574	10.92409	4.590978	2.99E-05	0.003524	2.330717
ILMN_2102693	-0.17083	8.757085	-3.56228	0.000818	0.032056	-0.71886
ILMN_2102960	-0.17065	8.064303	-4.38512	5.96E-05	0.005643	1.692474
ILMN_3197097	-0.17064	8.289104	-3.7302	0.000489	0.023046	-0.24787
ILMN_1790136	0.16997	8.813088	4.323791	7.30E-05	0.006451	1.504667
ILMN_1678454	-0.16991	9.454743	-5.16909	4.12E-06	0.000967	4.176853
ILMN_1745242	-0.16991	7.429544	-4.03891	0.000184	0.012201	0.647854
ILMN_1777721	0.169788	10.37908	5.607787	8.82E-07	0.000327	5.616784
ILMN_1710000	-0.16934	6.626573	-6.54454	3.08E-08	3.79E-05	8.749499
ILMN_1812856	0.16923	8.03135	7.474006	1.08E-09	6.22E-06	11.86813
ILMN_1728057	-0.1692	6.695851	-5.07963	5.63E-06	0.001219	3.886771
ILMN_1732398	0.168896	5.518001	4.264737	8.86E-05	0.007286	1.324894
ILMN_1719986	-0.16868	7.162071	-3.39488	0.001351	0.042894	-1.1758
ILMN_2359453	0.168482	10.66599	4.763603	1.67E-05	0.002377	2.874385
ILMN_1792679	-0.16835	7.392167	-3.46422	0.001099	0.037789	-0.98813
ILMN_1806106	0.168007	9.807794	3.83157	0.000356	0.018691	0.042166
ILMN_1784110	-0.16771	6.786576	-3.85135	0.000335	0.018029	0.099257
ILMN_1700541	0.167671	8.967071	3.439206	0.001184	0.03959	-1.05609
ILMN_2368713	0.167403	10.02075	4.563355	3.29E-05	0.003717	2.244411
ILMN_1707783	0.166958	11.66934	3.743032	0.00047	0.022299	-0.2114
ILMN_2410771	-0.16683	8.061131	-5.50997	1.25E-06	0.000411	5.293528
ILMN_1742731	0.16672	8.820646	5.112077	5.03E-06	0.001126	3.991829
ILMN_1676984	-0.16655	6.687393	-4.85233	1.23E-05	0.001922	3.156543
ILMN_2148668	-0.1663	7.46236	-3.89921	0.000288	0.016136	0.237968
ILMN_1664028	0.166099	9.475459	4.855172	1.22E-05	0.00192	3.165597

ILMN_1680465	-0.16545	6.953166	-3.48612	0.001029	0.036544	-0.92836
ILMN_1735658	-0.16523	9.171766	-3.96452	0.000234	0.014175	0.428704
ILMN_1652594	0.165046	6.7758	5.268598	2.91E-06	0.000776	4.50106
ILMN_1801313	-0.16471	8.011372	-3.45476	0.001131	0.038365	-1.01385
ILMN_1700168	0.164566	6.401959	3.921981	0.000268	0.015534	0.304292
ILMN_1815024	-0.164	10.93684	-4.3012	7.86E-05	0.006742	1.43576
ILMN_1658992	0.163676	10.34544	5.267271	2.93E-06	0.000776	4.496723
ILMN_1807291	0.16353	5.682917	3.594647	0.000741	0.030188	-0.62904
ILMN_1728710	0.16342	6.954481	3.5585	0.000827	0.032266	-0.72933
ILMN_1712035	0.163416	7.517737	3.893636	0.000293	0.01629	0.221775
ILMN_1660723	0.163269	7.815519	3.470366	0.001079	0.037464	-0.97137
ILMN_1733667	0.163041	7.146015	5.657224	7.40E-07	0.00029	5.780561
ILMN_1791388	0.162698	8.038381	4.974707	8.09E-06	0.001544	3.548431
ILMN_1683313	0.162422	7.73199	4.878969	1.12E-05	0.001838	3.241577
ILMN_2142117	-0.16231	9.308538	-4.11217	0.000146	0.01044	0.865606
ILMN_2394276	-0.16208	7.018932	-5.0389	6.48E-06	0.00133	3.755186
ILMN_1714741	-0.16198	7.070954	-3.80551	0.000386	0.01977	-0.03281
ILMN_3244323	0.161878	8.420129	4.988456	7.72E-06	0.001494	3.592649
ILMN_1734138	0.16177	7.228567	4.191438	0.000113	0.008743	1.103288
ILMN_1785644	0.161693	7.199323	4.169125	0.000121	0.009087	1.036173
ILMN_1705252	0.161587	6.430172	3.725341	0.000496	0.023197	-0.26168
ILMN_1751464	-0.1612	6.77298	-3.9164	0.000273	0.015534	0.288014
ILMN_1803856	-0.16071	6.942534	-3.62339	0.000679	0.028507	-0.54888
ILMN_1781454	0.160641	8.591168	4.377337	6.11E-05	0.005728	1.668583
ILMN_1669703	0.160472	8.590866	3.822009	0.000367	0.019072	0.014633
ILMN_1798256	-0.16026	10.07763	-3.58664	0.00076	0.030714	-0.6513
ILMN_1681326	0.160005	5.931447	6.236458	9.33E-08	6.99E-05	7.714393
ILMN_1701243	0.160004	7.875346	4.038393	0.000185	0.012201	0.646331
ILMN_1714352	0.159676	7.136768	3.320255	0.001683	0.048567	-1.37519
ILMN_2326509	-0.15948	8.811935	-3.43285	0.001207	0.040051	-1.07331
ILMN_3239217	0.159464	6.633795	4.571844	3.19E-05	0.00367	2.270912
ILMN_1670079	-0.15928	8.026146	-3.49006	0.001017	0.036364	-0.9176
ILMN_1745885	0.159247	10.33155	4.22465	0.000101	0.00812	1.203485
ILMN_1756806	-0.15912	8.925277	-3.55267	0.000842	0.032579	-0.74544
ILMN_1801833	-0.15905	6.69055	-3.43092	0.001214	0.040167	-1.07855
ILMN_1665526	0.158704	6.424292	3.417115	0.001265	0.041319	-1.11587
ILMN_1695110	0.158563	7.942509	3.876396	0.000309	0.016928	0.171736
ILMN_1719286	0.158512	7.652052	3.963292	0.000235	0.014201	0.425102
ILMN_1702211	-0.15839	6.537614	-3.74684	0.000464	0.022098	-0.20055
ILMN_1764522	0.158016	7.828939	3.384367	0.001394	0.043886	-1.20406
ILMN_1687315	0.157577	10.13046	3.466804	0.001091	0.037673	-0.98108
ILMN_1790455	0.157531	6.554547	4.143801	0.000131	0.009706	0.960202
ILMN_1700727	-0.15706	6.382961	-4.70373	2.05E-05	0.002744	2.684995
ILMN_1683204	0.156723	8.05968	5.907633	3.03E-07	0.000149	6.613683
ILMN_1683082	0.156607	7.593366	4.525294	3.73E-05	0.004072	2.125819
ILMN_1808591	0.156492	9.949389	4.102476	0.00015	0.010705	0.836692
ILMN_1784641	0.156322	10.54662	3.456775	0.001124	0.038324	-1.00838
ILMN_1771815	0.156272	10.19336	6.654702	2.07E-08	2.87E-05	9.119979
ILMN_1750400	-0.15614	6.36807	-3.86324	0.000322	0.017561	0.13363
ILMN_1663954	0.15608	9.208176	3.94169	0.000252	0.014928	0.361851
ILMN_1797698	0.155868	7.248442	6.529965	3.25E-08	3.86E-05	8.700493
ILMN_1768391	-0.15583	6.295915	-4.49123	4.19E-05	0.004399	2.020023
ILMN_1737535	0.15535	7.809927	4.879032	1.12E-05	0.001838	3.241776
ILMN_1812940	0.155224	8.171079	4.230794	9.90E-05	0.007996	1.22206

ILMN_2407464	0.155055	8.370746	3.715812	0.000511	0.023707	-0.28871
ILMN_1770505	-0.155	6.104167	-3.63683	0.000652	0.0277	-0.51127
ILMN_1658706	-0.15463	7.564188	-3.40987	0.001292	0.041956	-1.13543
ILMN_1665797	0.15461	10.52642	3.881786	0.000304	0.016722	0.187367
ILMN_2125010	-0.15444	7.894929	-4.34548	6.79E-05	0.006115	1.570943
ILMN_1716821	0.154382	8.044105	3.508274	0.000963	0.035111	-0.8677
ILMN_1737426	-0.15423	9.140574	-3.6893	0.000555	0.024798	-0.3637
ILMN_1772731	-0.15403	8.037967	-3.36542	0.001474	0.044936	-1.25485
ILMN_1751743	0.153779	7.111816	4.868853	1.16E-05	0.001878	3.209261
ILMN_3244803	0.153575	6.940247	4.372629	6.21E-05	0.00577	1.654138
ILMN_1691117	0.153522	8.642115	5.032905	6.62E-06	0.001345	3.735851
ILMN_2126239	0.153477	7.785695	3.752896	0.000455	0.021837	-0.18331
ILMN_1722218	0.153028	7.885802	4.298708	7.93E-05	0.00678	1.428178
ILMN_1759436	0.152915	9.846954	3.697246	0.000541	0.024611	-0.34126
ILMN_1669390	0.152882	9.29823	3.364853	0.001477	0.044971	-1.25636
ILMN_1654001	-0.15274	7.716196	-4.29692	7.97E-05	0.006787	1.422735
ILMN_2183687	0.152672	6.975102	4.950134	8.81E-06	0.001614	3.469493
ILMN_1755352	0.152606	5.878212	3.466495	0.001092	0.037673	-0.98192
ILMN_1771987	0.152459	9.357103	3.754671	0.000453	0.021777	-0.17825
ILMN_2265654	0.152282	6.254246	5.048628	6.27E-06	0.001301	3.786596
ILMN_1760490	-0.1522	8.651016	-4.7446	1.78E-05	0.002495	2.814195
ILMN_1675007	0.152128	6.451682	5.030493	6.67E-06	0.001345	3.72807
ILMN_1666385	0.152057	11.11719	3.755176	0.000452	0.021773	-0.17681
ILMN_2075820	-0.15176	7.453887	-4.79889	1.48E-05	0.002143	2.986394
ILMN_1811729	0.151555	7.58875	3.796402	0.000398	0.020014	-0.05893
ILMN_2357781	0.151529	6.984022	3.488554	0.001022	0.036428	-0.92172
ILMN_1810334	0.151444	8.569222	4.051957	0.000177	0.011939	0.686501
ILMN_1782829	0.151193	6.668202	4.027037	0.000192	0.012526	0.612747
ILMN_1711383	0.151177	9.415097	5.291891	2.68E-06	0.000748	4.577174
ILMN_1735955	0.151077	8.686113	3.319045	0.001689	0.048699	-1.37841
ILMN_1729368	0.151074	6.394802	5.910464	3.00E-07	0.000149	6.623132
ILMN_1668369	-0.15095	11.22509	-3.76059	0.000445	0.02153	-0.16137
ILMN_3248857	-0.1505	6.346806	-4.03408	0.000187	0.012277	0.633578
ILMN_2323491	0.150433	8.391228	4.828619	1.34E-05	0.001995	3.08096
ILMN_1810891	0.150375	7.421438	3.953964	0.000242	0.014507	0.397768
ILMN_2283388	0.149732	10.62316	3.942651	0.000251	0.014908	0.36466
ILMN_1776375	-0.14925	9.59331	-4.89796	1.05E-05	0.001789	3.302307
ILMN_1728059	0.149219	7.675856	4.047887	0.000179	0.012019	0.674441
ILMN_1674394	0.149054	8.769143	3.465469	0.001095	0.037751	-0.98472
ILMN_1683059	-0.14904	7.756932	-3.41532	0.001272	0.041439	-1.12073
ILMN_1765684	-0.14901	10.39111	-3.42716	0.001228	0.040541	-1.08872
ILMN_1711450	0.148957	9.412244	3.927086	0.000264	0.015398	0.319188
ILMN_3225784	0.148858	12.80393	3.32925	0.00164	0.047945	-1.35131
ILMN_1770653	-0.14855	11.45875	-4.36096	6.45E-05	0.005918	1.618345
ILMN_1717809	0.148416	6.697764	3.762703	0.000442	0.021449	-0.15534
ILMN_1755862	0.147969	8.186322	3.553976	0.000839	0.032546	-0.74184
ILMN_1667594	-0.14787	6.850008	-3.71985	0.000505	0.023476	-0.27725
ILMN_1770338	-0.14774	11.67637	-3.45529	0.001129	0.038349	-1.01242
ILMN_1777449	-0.14767	7.981589	-3.37235	0.001444	0.044537	-1.23628
ILMN_1725427	-0.14763	11.94789	-3.40402	0.001315	0.042371	-1.15118
ILMN_1713006	-0.14757	7.403597	-3.93071	0.000261	0.0153	0.329753
ILMN_1793203	0.147465	7.931098	4.558502	3.34E-05	0.003739	2.229268
ILMN_2332558	-0.14715	9.264805	-4.58897	3.01E-05	0.003534	2.32445
ILMN_1710844	-0.1471	6.676328	-3.89772	0.000289	0.016159	0.23364

ILMN_2359456	0.146922	8.970854	4.048175	0.000179	0.012019	0.675296
ILMN_2173451	0.146891	9.157835	3.630748	0.000664	0.028014	-0.5283
ILMN_1792748	0.14676	6.144422	4.194433	0.000112	0.008678	1.112308
ILMN_1738229	0.146561	8.189289	4.210926	0.000106	0.008375	1.162037
ILMN_1652754	0.146215	8.936248	3.558785	0.000827	0.032266	-0.72854
ILMN_3272768	-0.14617	6.624888	-6.00888	2.11E-07	0.000117	6.951944
ILMN_1737685	0.146161	9.912017	3.336211	0.001606	0.047499	-1.33279
ILMN_1769575	0.146114	5.614811	3.64837	0.000629	0.027207	-0.47892
ILMN_1695679	-0.14602	6.135872	-3.37692	0.001425	0.044289	-1.22404
ILMN_1711023	0.145942	8.144351	4.711132	1.99E-05	0.002726	2.708372
ILMN_1792825	0.145859	7.809389	3.314944	0.00171	0.04894	-1.38928
ILMN_1676197	0.145858	10.08529	3.37078	0.001451	0.044664	-1.24049
ILMN_2065783	-0.14557	7.062967	-5.69413	6.49E-07	0.000263	5.902991
ILMN_1770035	0.14557	7.938254	6.460908	4.16E-08	4.37E-05	8.468315
ILMN_1721225	0.145562	8.673909	6.047725	1.84E-07	0.000106	7.081889
ILMN_1790537	-0.14556	8.683089	-3.32668	0.001652	0.048147	-1.35814
ILMN_3227263	-0.14552	7.69568	-3.4178	0.001262	0.04129	-1.11403
ILMN_1741585	0.145515	6.201362	4.582443	3.08E-05	0.003583	2.304029
ILMN_1767658	0.14546	8.743809	4.248171	9.36E-05	0.007589	1.274661
ILMN_2144573	-0.14531	7.407936	-6.93279	7.60E-09	1.75E-05	10.05492
ILMN_1653133	-0.14513	8.267472	-5.27953	2.80E-06	0.000773	4.53677
ILMN_3265237	-0.1451	7.012253	-3.74245	0.00047	0.022309	-0.21306
ILMN_1696190	0.145057	7.341854	5.179287	3.98E-06	0.00094	4.209998
ILMN_1661484	0.144923	6.477409	3.85755	0.000328	0.017766	0.117166
ILMN_1718069	-0.14488	9.717053	-3.65846	0.00061	0.026644	-0.4506
ILMN_1753885	0.144481	8.759723	5.668451	7.11E-07	0.000282	5.81779
ILMN_3303673	-0.14438	7.409118	-3.84674	0.00034	0.018181	0.085922
ILMN_1728972	0.144304	7.406871	4.051157	0.000177	0.011939	0.68413
ILMN_1654488	-0.14408	7.884099	-4.0157	0.000199	0.012768	0.579259
ILMN_1702073	-0.14407	7.020506	-5.35732	2.13E-06	0.000634	4.791413
ILMN_1688642	0.143925	6.268217	3.549667	0.00085	0.03277	-0.75375
ILMN_2050255	0.143898	8.970775	5.739448	5.52E-07	0.000234	6.053507
ILMN_1800311	-0.14389	7.430698	-4.45751	4.68E-05	0.004777	1.915581
ILMN_1733863	-0.14314	8.329745	-3.33721	0.001602	0.047401	-1.33014
ILMN_1683533	0.143067	6.642611	4.441495	4.94E-05	0.004927	1.866095
ILMN_1729142	0.143047	6.377382	3.366584	0.001469	0.044915	-1.25173
ILMN_1692754	-0.14238	9.73637	-3.57614	0.000784	0.031437	-0.68046
ILMN_2207393	0.142323	7.21087	4.884599	1.10E-05	0.00182	3.259567
ILMN_1651228	-0.14228	13.36566	-6.97261	6.58E-09	1.62E-05	10.18869
ILMN_1765770	0.14225	6.899082	3.377593	0.001422	0.044289	-1.22223
ILMN_1690610	0.142134	8.977126	4.69125	2.13E-05	0.002819	2.645638
ILMN_1745784	0.141999	6.744723	3.693038	0.000548	0.024798	-0.35316
ILMN_1687857	0.141927	7.076059	3.472706	0.001072	0.03739	-0.96499
ILMN_3235808	0.141921	9.152855	4.948784	8.85E-06	0.001614	3.465161
ILMN_1758173	-0.14191	9.107964	-4.68629	2.17E-05	0.002838	2.630005
ILMN_1700306	-0.14173	10.1864	-3.66853	0.000591	0.025996	-0.42225
ILMN_1788547	0.14165	8.061504	3.807212	0.000384	0.019694	-0.02791
ILMN_1682935	-0.1416	8.379604	-4.12118	0.000141	0.010277	0.892533
ILMN_1804329	0.141527	6.846296	4.673088	2.27E-05	0.00293	2.588413
ILMN_1821473	0.14145	6.241595	3.751173	0.000458	0.021893	-0.18822
ILMN_1662426	0.141433	11.20601	4.307395	7.70E-05	0.006655	1.454646
ILMN_1686152	-0.14141	7.40316	-4.08174	0.000161	0.011128	0.774952
ILMN_1747744	0.141	7.483208	4.014795	0.000199	0.012768	0.576597
ILMN_1666727	0.14088	7.476774	4.154949	0.000127	0.009421	0.99362

ILMN_3204734	0.140815	9.880486	3.548605	0.000853	0.032839	-0.75668
ILMN_3219340	0.14081	12.83704	3.511005	0.000955	0.035028	-0.86021
ILMN_3246608	0.140682	6.307201	3.637203	0.000651	0.0277	-0.51023
ILMN_2175112	-0.14064	6.505594	-3.54106	0.000872	0.033133	-0.7775
ILMN_1654653	0.140549	7.652321	5.538333	1.13E-06	0.000389	5.387142
ILMN_1786893	0.140339	9.273498	3.360402	0.001496	0.045325	-1.26827
ILMN_1741371	-0.14018	6.492369	-3.9852	0.000219	0.013631	0.489427
ILMN_1715273	-0.14017	9.627349	-4.16998	0.000121	0.009087	1.038755
ILMN_1669484	0.140056	9.247776	4.217714	0.000103	0.008241	1.18253
ILMN_1689327	0.139804	11.86812	5.004905	7.29E-06	0.001422	3.645601
ILMN_2407124	0.139741	6.874062	3.499223	0.00099	0.035741	-0.89251
ILMN_1737604	-0.13969	7.910983	-3.78866	0.000407	0.020302	-0.08112
ILMN_1798712	0.13965	6.692122	3.800621	0.000392	0.019868	-0.04683
ILMN_1765649	0.139577	7.80209	4.171214	0.00012	0.009073	1.04245
ILMN_2333107	-0.13944	8.586003	-4.17249	0.00012	0.009055	1.046288
ILMN_1772124	0.139399	7.905463	3.944809	0.000249	0.014858	0.370972
ILMN_1712231	-0.13929	9.444425	-3.48691	0.001027	0.036495	-0.92621
ILMN_2387599	0.139277	11.77284	4.751618	1.74E-05	0.002466	2.836411
ILMN_1804150	-0.13909	9.13232	-4.07502	0.000164	0.0113	0.754967
ILMN_3224290	0.139012	9.645384	3.322847	0.001671	0.048443	-1.36832
ILMN_1697817	-0.13895	7.647454	-3.68422	0.000563	0.024994	-0.37805
ILMN_2364131	0.138816	8.838955	5.082808	5.57E-06	0.001214	3.897064
ILMN_1660341	0.138728	8.027969	3.399388	0.001333	0.042678	-1.16367
ILMN_1702279	0.138561	7.827281	4.450664	4.79E-05	0.004816	1.894419
ILMN_1729987	0.138557	8.692391	4.74791	1.76E-05	0.002487	2.824669
ILMN_1722294	-0.13824	7.407387	-5.3076	2.54E-06	0.000718	4.628552
ILMN_1673111	0.138104	9.131493	3.709858	0.00052	0.023987	-0.30558
ILMN_1698673	-0.13809	7.12604	-5.06507	5.92E-06	0.001252	3.839722
ILMN_1701940	0.138073	7.001941	5.804244	4.38E-07	0.000194	6.269047
ILMN_1811836	-0.13804	8.139387	-3.36865	0.00146	0.044826	-1.24619
ILMN_2369785	0.138024	12.81444	5.504852	1.27E-06	0.000411	5.27664
ILMN_1727300	0.137983	7.468963	5.199442	3.71E-06	0.000899	4.275568
ILMN_1755974	0.137799	7.42346	3.402648	0.00132	0.042432	-1.15489
ILMN_1814966	0.137439	7.410336	4.212699	0.000105	0.008346	1.167388
ILMN_1747281	-0.13743	7.329939	-4.06427	0.00017	0.011592	0.723016
ILMN_2124802	0.137381	5.790428	3.68987	0.000554	0.024798	-0.36211
ILMN_1755077	-0.13733	11.37783	-3.90675	0.000281	0.015911	0.2599
ILMN_1752283	0.137263	7.497097	5.420497	1.71E-06	0.000522	4.998849
ILMN_1803988	-0.13717	10.12275	-3.4947	0.001003	0.035992	-0.90491
ILMN_1718285	0.137054	6.144673	3.667849	0.000592	0.026018	-0.42418
ILMN_1815885	0.136963	6.751586	4.165045	0.000123	0.009166	1.023919
ILMN_1676792	0.136934	12.62773	3.357984	0.001507	0.045529	-1.27473
ILMN_1718771	-0.13689	6.72125	-3.58077	0.000773	0.031105	-0.6676
ILMN_2337336	0.136858	6.485446	3.752413	0.000456	0.021839	-0.18468
ILMN_2317730	0.1365	7.618262	5.252908	3.08E-06	0.000792	4.449832
ILMN_1795228	-0.13648	11.03292	-3.379	0.001416	0.044216	-1.21846
ILMN_1722426	-0.13628	5.769089	-4.36667	6.33E-05	0.005854	1.63585
ILMN_1809957	0.136156	12.30113	7.000736	5.95E-09	1.58E-05	10.28316
ILMN_1804419	-0.13615	6.165495	-3.50775	0.000964	0.035112	-0.86915
ILMN_1794781	0.13611	6.908979	5.276932	2.83E-06	0.000774	4.528282
ILMN_2373266	-0.13596	8.809098	-4.96026	8.50E-06	0.001593	3.502003
ILMN_1702835	-0.13592	9.257488	-4.0138	0.0002	0.012779	0.573656
ILMN_2159453	-0.13552	8.276362	-3.85559	0.00033	0.017848	0.111507
ILMN_3288755	0.135497	6.588679	3.803443	0.000389	0.01978	-0.03873

ILMN_3180557	0.135472	6.933027	5.116973	4.94E-06	0.001114	4.007695
ILMN_1752884	0.135355	6.1438	3.553784	0.000839	0.032546	-0.74237
ILMN_1900270	-0.13517	6.401475	-3.37683	0.001425	0.044289	-1.22429
ILMN_1751615	-0.13509	8.943403	-3.4785	0.001053	0.036933	-0.94918
ILMN_1794213	0.134901	6.118721	3.477899	0.001055	0.036962	-0.95083
ILMN_1657204	0.134887	11.45826	3.508431	0.000962	0.035111	-0.86727
ILMN_1761069	-0.13487	7.418122	-3.54499	0.000862	0.033017	-0.76667
ILMN_1812327	-0.13486	6.350576	-4.3575	6.53E-05	0.005954	1.607751
ILMN_1731193	0.134828	6.411773	5.253807	3.07E-06	0.000792	4.452766
ILMN_1703142	-0.13471	6.363091	-4.2932	8.07E-05	0.006853	1.411394
ILMN_1658807	-0.13456	6.922589	-4.04272	0.000182	0.01217	0.659137
ILMN_2402806	0.134361	8.329239	4.605529	2.85E-05	0.003413	2.376263
ILMN_2403555	0.134145	6.899727	3.892628	0.000294	0.016316	0.218845
ILMN_1787932	-0.1339	6.155758	-3.49438	0.001004	0.035992	-0.90576
ILMN_1658015	-0.13354	7.671465	-3.86222	0.000323	0.01759	0.130678
ILMN_1653599	-0.13353	10.79695	-3.52722	0.000909	0.034118	-0.81565
ILMN_2167922	0.133517	11.34824	4.785775	1.55E-05	0.002232	2.944725
ILMN_1777444	-0.1335	7.396279	-4.67071	2.29E-05	0.002932	2.580926
ILMN_1656066	0.133497	9.395813	4.946671	8.91E-06	0.001617	3.458379
ILMN_1778803	-0.13348	8.24874	-4.93586	9.25E-06	0.001652	3.423682
ILMN_1792078	0.133274	9.804828	4.276182	8.53E-05	0.007124	1.359651
ILMN_1654064	-0.13315	7.089103	-4.65043	2.45E-05	0.003069	2.517138
ILMN_1808391	-0.13303	5.873943	-3.87471	0.000311	0.016991	0.166848
ILMN_1758633	0.132913	8.386412	3.498575	0.000991	0.035741	-0.89429
ILMN_1812461	0.132912	6.393518	4.848624	1.25E-05	0.001927	3.144711
ILMN_1721704	-0.13291	9.435152	-3.37876	0.001417	0.044216	-1.21911
ILMN_1757847	-0.13289	7.089486	-4.88867	1.09E-05	0.001811	3.272596
ILMN_2063925	0.132751	8.524528	4.000071	0.000209	0.013188	0.533188
ILMN_1775486	-0.1327	5.641129	-3.63525	0.000655	0.027737	-0.51569
ILMN_1806809	0.132642	6.996511	3.6185	0.000689	0.028788	-0.56254
ILMN_1808860	-0.13262	8.62686	-5.00737	7.23E-06	0.001422	3.65353
ILMN_1769734	-0.13238	9.050755	-3.89813	0.000289	0.016159	0.234841
ILMN_1651886	0.132079	9.567376	4.03667	0.000186	0.012245	0.64123
ILMN_2350574	0.132019	7.019527	3.376672	0.001426	0.044289	-1.2247
ILMN_1734827	0.131914	6.450167	4.250008	9.30E-05	0.007579	1.280227
ILMN_1715969	0.131778	7.124269	4.288041	8.21E-05	0.006902	1.395708
ILMN_1678052	-0.13137	7.657149	-3.31395	0.001715	0.04894	-1.39193
ILMN_1653896	0.131024	6.707074	3.563268	0.000815	0.032056	-0.71613
ILMN_1761722	0.130575	6.721795	4.505772	3.99E-05	0.004255	2.065141
ILMN_1784436	0.130122	7.171081	3.727791	0.000492	0.023093	-0.25473
ILMN_1747223	-0.13008	8.365961	-3.82273	0.000366	0.019071	0.016703
ILMN_1760143	0.129678	10.37174	4.386412	5.93E-05	0.005634	1.696448
ILMN_2411794	0.129596	8.508565	4.641216	2.53E-05	0.003133	2.488187
ILMN_1700337	0.129543	7.679403	3.793528	0.000401	0.020087	-0.06717
ILMN_1702866	0.12942	5.750363	5.420036	1.71E-06	0.000522	4.997331
ILMN_1748894	0.129285	8.536682	3.763282	0.000441	0.021449	-0.15369
ILMN_1764323	-0.1289	9.198453	-4.58203	3.09E-05	0.003583	2.302727
ILMN_2386100	0.128884	9.046575	3.710598	0.000519	0.023964	-0.30349
ILMN_1676759	0.128789	7.911027	4.310859	7.61E-05	0.006596	1.465206
ILMN_1771824	0.128721	6.442188	5.134613	4.65E-06	0.001068	4.064897
ILMN_1678949	0.128575	7.116892	4.427449	5.18E-05	0.005085	1.822753
ILMN_2174081	0.128539	7.115872	3.350455	0.001541	0.046176	-1.29483
ILMN_1697348	0.128284	8.438112	3.838904	0.000348	0.018491	0.063311
ILMN_1693145	0.128204	11.4118	3.904125	0.000283	0.015964	0.252274

ILMN_1714364	-0.12809	11.31818	-3.66388	0.0006	0.026271	-0.43535
ILMN_1672947	-0.12781	9.153308	-3.5133	0.000948	0.034911	-0.85392
ILMN_1773002	-0.12775	7.412498	-3.40056	0.001329	0.042649	-1.1605
ILMN_1754727	-0.12763	6.925514	-4.21813	0.000103	0.008241	1.183775
ILMN_1770911	0.127495	6.857643	4.33939	6.93E-05	0.006223	1.55233
ILMN_1697735	0.127458	9.890322	5.256236	3.04E-06	0.000792	4.460696
ILMN_1677402	-0.12735	6.360593	-3.34551	0.001563	0.0467	-1.30803
ILMN_1679195	0.127276	11.71869	4.131799	0.000137	0.010026	0.924271
ILMN_1741985	-0.12727	6.556949	-4.70614	2.03E-05	0.002732	2.692598
ILMN_1731354	0.127163	9.639258	4.179878	0.000117	0.008879	1.068496
ILMN_1802646	0.127105	5.629979	3.326603	0.001652	0.048147	-1.35834
ILMN_3233179	0.127101	7.616117	3.306308	0.001754	0.04984	-1.41216
ILMN_1778255	0.126946	7.104808	3.749329	0.00046	0.021988	-0.19347
ILMN_1671568	-0.12678	8.992622	-3.64606	0.000633	0.027241	-0.48541
ILMN_1674421	0.126449	8.956569	3.702633	0.000532	0.024369	-0.32603
ILMN_1775522	0.126307	9.771732	3.339125	0.001593	0.047297	-1.32504
ILMN_1769158	0.126127	8.019062	3.637174	0.000651	0.0277	-0.51031
ILMN_2328378	-0.12612	7.923599	-3.30907	0.001739	0.049521	-1.40485
ILMN_1784540	-0.12578	8.812635	-3.45349	0.001135	0.038458	-1.0173
ILMN_1787280	0.125731	8.156233	3.817671	0.000372	0.019231	0.002154
ILMN_2363591	-0.12554	9.224569	-4.20682	0.000107	0.008446	1.149656
ILMN_2369221	-0.12552	5.999184	-3.50327	0.000978	0.035401	-0.88143
ILMN_1771966	0.125184	10.57052	3.479415	0.00105	0.036901	-0.94669
ILMN_1727001	0.124946	7.703579	3.795114	0.000399	0.020061	-0.06262
ILMN_1757914	0.124906	9.621177	3.327122	0.00165	0.048147	-1.35696
ILMN_2169761	-0.1249	7.763599	-3.44171	0.001176	0.039438	-1.04929
ILMN_2225061	0.124888	5.399499	4.842531	1.27E-05	0.001949	3.125284
ILMN_1733875	0.124827	7.811225	3.929631	0.000261	0.015308	0.326616
ILMN_1774589	0.124805	6.94714	3.755986	0.000451	0.021749	-0.1745
ILMN_1669268	-0.12477	7.286341	-3.51944	0.000931	0.034679	-0.83703
ILMN_1665095	0.124573	7.455196	3.779234	0.00042	0.020723	-0.1081
ILMN_1657631	-0.12449	6.994022	-4.51994	3.80E-05	0.004109	2.109171
ILMN_2182704	-0.12446	9.554422	-4.31169	7.59E-05	0.006596	1.467727
ILMN_1731165	0.12446	5.676588	3.369585	0.001456	0.044742	-1.24369
ILMN_1729281	0.12443	7.419073	4.537472	3.58E-05	0.003963	2.163721
ILMN_1703316	0.124408	7.538053	3.574074	0.000789	0.031452	-0.68619
ILMN_1795639	0.124236	9.320822	3.676455	0.000577	0.025468	-0.39995
ILMN_2047676	-0.12423	7.323166	-3.3661	0.001471	0.044915	-1.25303
ILMN_1694759	0.124112	7.99306	4.184746	0.000115	0.008798	1.08314
ILMN_1711823	0.124058	8.071418	3.757676	0.000449	0.021665	-0.16968
ILMN_1755664	0.123941	6.608051	5.236112	3.26E-06	0.000815	4.395042
ILMN_1673522	-0.12384	8.374233	-3.57427	0.000789	0.031452	-0.68565
ILMN_1733511	0.123742	9.79902	4.535455	3.61E-05	0.003969	2.157442
ILMN_1678966	0.123701	11.14048	3.364348	0.001479	0.044998	-1.25771
ILMN_1813657	0.123648	7.18278	4.023809	0.000194	0.012553	0.60321
ILMN_1779163	-0.12359	8.642296	-3.88734	0.000299	0.016537	0.203479
ILMN_1678054	-0.12351	7.81865	-3.37466	0.001434	0.044352	-1.23011
ILMN_1778488	-0.12336	7.39079	-4.53498	3.61E-05	0.003969	2.155951
ILMN_2367258	0.122871	5.760206	3.375038	0.001433	0.044346	-1.22908
ILMN_1728626	0.122818	8.320201	3.908833	0.000279	0.015832	0.265979
ILMN_1759595	0.122777	7.280271	5.690125	6.58E-07	0.000264	5.8897
ILMN_1740197	0.122742	6.46239	4.819811	1.38E-05	0.002038	3.052922
ILMN_1672843	-0.12274	8.3593	-4.0634	0.00017	0.011592	0.720448
ILMN_2219134	-0.1227	12.86068	-4.2054	0.000108	0.00845	1.145364

ILMN_1746426	0.122563	9.547126	4.438506	4.99E-05	0.004947	1.856869
ILMN_1743662	-0.12256	6.300212	-4.60933	2.82E-05	0.003382	2.388183
ILMN_1706779	0.122445	7.750245	3.382088	0.001403	0.043982	-1.21017
ILMN_1802338	-0.1224	6.528872	-4.90325	1.03E-05	0.001773	3.319217
ILMN_1661170	0.122363	11.5488	4.063984	0.00017	0.011592	0.722178
ILMN_1665300	-0.12235	7.015094	-5.46894	1.44E-06	0.000456	5.158272
ILMN_2063500	0.122297	7.628167	4.613823	2.77E-05	0.003342	2.402245
ILMN_1679483	0.122276	8.198779	3.945152	0.000249	0.014858	0.371974
ILMN_1757343	0.122275	10.7549	4.379265	6.07E-05	0.00571	1.674501
ILMN_1774196	0.122274	9.275008	3.926258	0.000264	0.015412	0.316772
ILMN_1674661	-0.12214	10.48293	-3.37518	0.001432	0.044346	-1.22869
ILMN_1778240	0.122038	8.455276	3.534691	0.000889	0.033576	-0.79507
ILMN_1670948	0.121991	8.812808	4.069337	0.000167	0.01144	0.738072
ILMN_1722089	-0.12197	7.619406	-3.68774	0.000557	0.02482	-0.36812
ILMN_2358914	0.121956	6.50809	4.187644	0.000114	0.008774	1.091863
ILMN_1723467	-0.12185	11.41865	-3.99908	0.00021	0.013206	0.530273
ILMN_1784227	0.121486	8.89894	4.863952	1.18E-05	0.001881	3.193614
ILMN_1823112	0.121208	6.26093	4.649588	2.46E-05	0.003069	2.514488
ILMN_1803773	0.121198	6.123491	4.453176	4.75E-05	0.004816	1.902183
ILMN_1801767	-0.12117	6.987505	-3.32824	0.001644	0.048047	-1.35399
ILMN_1711909	0.121098	7.403274	3.420775	0.001251	0.041004	-1.10598
ILMN_3240187	0.12094	9.69429	4.07302	0.000165	0.01135	0.749013
ILMN_1793743	-0.1209	8.542338	-4.04217	0.000183	0.01217	0.657517
ILMN_1686135	-0.12087	8.359989	-3.38268	0.001401	0.043982	-1.20858
ILMN_1655952	0.120472	9.16614	3.733743	0.000483	0.022857	-0.23782
ILMN_1801600	0.120299	8.147344	3.461924	0.001107	0.037926	-0.99437
ILMN_1708787	0.120235	6.52756	3.567809	0.000804	0.031909	-0.70356
ILMN_1755850	0.120167	5.583099	3.512599	0.00095	0.034911	-0.85583
ILMN_1706960	-0.12005	6.299473	-3.76875	0.000433	0.021229	-0.13808
ILMN_1783702	-0.11993	7.721322	-3.36173	0.00149	0.045292	-1.26471
ILMN_1768194	-0.11992	7.726417	-4.63798	2.56E-05	0.003136	2.478018
ILMN_1740430	0.119675	6.808733	4.413604	5.42E-05	0.005269	1.780086
ILMN_1665049	-0.11963	8.704278	-4.53736	3.59E-05	0.003963	2.16338
ILMN_1712944	-0.11962	9.416916	-3.82354	0.000365	0.019051	0.019052
ILMN_1734231	0.119445	9.752719	3.701724	0.000534	0.024369	-0.3286
ILMN_1815656	0.119427	8.904437	3.467802	0.001087	0.037641	-0.97836
ILMN_1754865	0.119325	9.424259	4.313832	7.54E-05	0.006581	1.474273
ILMN_2392080	-0.11932	7.594627	-3.60323	0.000722	0.029718	-0.60514
ILMN_1695797	0.119236	8.588752	3.496548	0.000998	0.03586	-0.89984
ILMN_1759991	0.11923	8.673025	4.438303	4.99E-05	0.004947	1.856242
ILMN_1745513	0.11922	7.305104	3.396457	0.001345	0.042812	-1.17156
ILMN_1707199	0.119147	7.796457	4.3319	7.10E-05	0.006329	1.529435
ILMN_1738103	0.119133	9.375674	3.375861	0.001429	0.044346	-1.22688
ILMN_1698015	0.118924	6.189212	4.514407	3.87E-05	0.004147	2.091968
ILMN_1684591	0.118873	7.380275	4.005224	0.000205	0.012996	0.548372
ILMN_1762439	-0.11863	7.006073	-3.75867	0.000447	0.021629	-0.16685
ILMN_3256325	0.118552	7.767774	3.36104	0.001493	0.045319	-1.26656
ILMN_1844692	-0.1182	8.90904	-3.34145	0.001582	0.047137	-1.31883
ILMN_1671619	0.117859	6.073866	4.441219	4.94E-05	0.004927	1.865243
ILMN_2405009	-0.11777	9.694206	-3.50819	0.000963	0.035111	-0.86793
ILMN_1657129	-0.11769	8.061768	-3.72596	0.000495	0.023192	-0.25992
ILMN_3237209	0.117677	6.406315	4.673235	2.27E-05	0.00293	2.588875
ILMN_1681135	0.117592	6.153082	5.421089	1.71E-06	0.000522	5.000794
ILMN_1743806	-0.11757	7.173525	-3.57027	0.000798	0.031744	-0.69673

ILMN_1700733	-0.11753	8.020116	-3.83494	0.000352	0.018636	0.05187
ILMN_1720850	-0.11746	7.84599	-4.18015	0.000117	0.008879	1.069303
ILMN_1790461	-0.1173	10.46785	-3.99434	0.000213	0.01331	0.516323
ILMN_2389155	-0.11713	9.368498	-4.20725	0.000107	0.008446	1.150944
ILMN_1671603	-0.11707	9.146976	-5.97435	2.39E-07	0.000125	6.836506
ILMN_2197247	0.116777	7.95462	4.181033	0.000116	0.008879	1.07197
ILMN_1702198	0.116701	7.340192	4.470886	4.48E-05	0.00461	1.956968
ILMN_2278819	-0.11652	6.91849	-4.11815	0.000143	0.010347	0.883455
ILMN_1808047	-0.1164	6.950668	-3.48362	0.001037	0.036654	-0.93521
ILMN_1705682	0.116254	5.980359	3.780066	0.000418	0.020699	-0.10572
ILMN_1688011	0.116192	7.523639	4.35094	6.67E-05	0.006053	1.58767
ILMN_2175114	-0.11611	5.816607	-3.64742	0.000631	0.027218	-0.48158
ILMN_3238269	0.116015	8.443412	4.164159	0.000123	0.009166	1.021257
ILMN_1737611	0.115991	6.66995	4.695003	2.11E-05	0.002794	2.657472
ILMN_1730077	0.115958	8.436897	4.598678	2.92E-05	0.003457	2.354813
ILMN_1781803	0.115932	6.925614	4.085971	0.000159	0.011033	0.787527
ILMN_1813344	0.11573	8.433726	3.326378	0.001653	0.048147	-1.35894
ILMN_2053567	0.115699	7.403784	4.117346	0.000143	0.010352	0.881067
ILMN_3307786	0.115436	7.343689	4.093486	0.000155	0.010908	0.809901
ILMN_3225300	-0.11543	9.027645	-3.9325	0.000259	0.015239	0.335007
ILMN_1722522	-0.11534	7.330681	-4.62744	2.65E-05	0.003215	2.444955
ILMN_1695311	-0.11528	6.497101	-3.64322	0.000639	0.027399	-0.49336
ILMN_1791097	0.115081	7.561567	3.41466	0.001274	0.04148	-1.1225
ILMN_1683916	-0.11502	8.270671	-3.54254	0.000868	0.033115	-0.77343
ILMN_1819783	-0.11444	7.253281	-3.31477	0.001711	0.04894	-1.38973
ILMN_1768930	0.114359	10.04637	3.760925	0.000444	0.02153	-0.16041
ILMN_1654289	0.114309	8.02617	3.924092	0.000266	0.015492	0.310451
ILMN_2399264	0.114299	6.216862	4.113955	0.000145	0.010423	0.87094
ILMN_1781791	-0.11418	7.244427	-3.72503	0.000497	0.023197	-0.26258
ILMN_1737360	0.114132	5.933497	3.80403	0.000388	0.01978	-0.03704
ILMN_1809488	-0.11395	10.62056	-3.56376	0.000814	0.032056	-0.71477
ILMN_1729314	-0.11392	6.349821	-3.54129	0.000872	0.033133	-0.77686
ILMN_1692748	-0.1139	7.544309	-3.48949	0.001019	0.036364	-0.91917
ILMN_3249742	0.113839	6.037584	3.72818	0.000492	0.023093	-0.25362
ILMN_1669308	0.113745	7.241029	3.979611	0.000223	0.013776	0.472999
ILMN_1750636	0.113644	11.9311	3.359878	0.001498	0.045355	-1.26966
ILMN_2043109	0.113253	7.624979	4.264225	8.88E-05	0.007286	1.32334
ILMN_1659800	-0.11322	5.620496	-3.69026	0.000553	0.024798	-0.36101
ILMN_1806010	-0.11303	6.587764	-4.17866	0.000117	0.008895	1.064842
ILMN_1758339	0.113025	6.375826	3.350225	0.001542	0.046176	-1.29545
ILMN_1679324	0.113	9.648037	3.529087	0.000904	0.033963	-0.8105
ILMN_1658290	0.112868	7.569182	4.086318	0.000158	0.011033	0.788559
ILMN_1778242	0.11285	10.31384	3.483068	0.001039	0.036654	-0.93671
ILMN_1662161	0.112786	6.398688	4.035004	0.000187	0.012264	0.636302
ILMN_1693438	-0.11276	7.133441	-3.91728	0.000272	0.015534	0.290582
ILMN_1658677	0.11269	5.559248	3.803652	0.000389	0.01978	-0.03813
ILMN_1738420	0.11269	5.652472	4.185911	0.000115	0.008798	1.086646
ILMN_1657058	-0.11248	5.838526	-3.97251	0.000228	0.013966	0.452142
ILMN_1664025	0.112449	6.58128	3.455467	0.001128	0.038349	-1.01194
ILMN_2397024	-0.11204	9.407902	-3.69263	0.000549	0.024798	-0.35431
ILMN_1675577	0.111843	7.180331	4.477396	4.38E-05	0.004538	1.977129
ILMN_1772677	0.111783	8.256293	4.271424	8.67E-05	0.007193	1.345196
ILMN_1811560	0.111641	8.083334	3.801635	0.000391	0.019839	-0.04392
ILMN_1812441	0.111605	8.001096	3.546789	0.000857	0.032877	-0.7617

ILMN_2198393	-0.11151	8.687471	-3.77515	0.000425	0.020898	-0.11977
ILMN_1671326	0.111497	6.730258	3.788575	0.000407	0.020302	-0.08136
ILMN_2360784	0.111433	9.320021	3.321264	0.001678	0.048546	-1.37252
ILMN_1798164	-0.1114	9.01414	-3.44927	0.001149	0.038809	-1.02878
ILMN_1683096	-0.11129	7.129923	-3.55769	0.000829	0.032309	-0.73158
ILMN_1779639	-0.11116	6.887925	-3.53881	0.000878	0.033234	-0.78372
ILMN_1676955	-0.11113	7.835196	-3.78111	0.000417	0.020661	-0.10274
ILMN_1711102	-0.11092	7.192119	-3.75296	0.000455	0.021837	-0.18311
ILMN_2281186	-0.11091	5.81226	-4.4646	4.57E-05	0.00468	1.937528
ILMN_2352121	-0.11081	9.799415	-3.70529	0.000528	0.024295	-0.31851
ILMN_3251742	0.110777	7.084747	3.483081	0.001039	0.036654	-0.93668
ILMN_1691341	0.110749	6.484653	3.727812	0.000492	0.023093	-0.25467
ILMN_1687275	0.110584	8.405381	3.847352	0.000339	0.018174	0.087695
ILMN_2323633	0.110566	8.173019	3.895057	0.000292	0.016243	0.225905
ILMN_1803906	-0.11045	6.160431	-3.37502	0.001433	0.044346	-1.22913
ILMN_1725079	0.11042	7.7611	3.690842	0.000552	0.024798	-0.35936
ILMN_1669142	0.11004	7.797861	3.694115	0.000546	0.024785	-0.35011
ILMN_2094952	-0.11002	6.927402	-3.63515	0.000655	0.027737	-0.51597
ILMN_1806937	0.109829	8.86122	4.330333	7.14E-05	0.006341	1.524645
ILMN_1712859	-0.10944	6.573917	-4.08917	0.000157	0.010993	0.797047
ILMN_1685286	0.108951	6.625015	3.782909	0.000415	0.020575	-0.09759
ILMN_1777528	0.108802	8.948298	3.996399	0.000211	0.013271	0.522373
ILMN_2242068	0.108732	6.378102	3.517001	0.000938	0.034825	-0.84374
ILMN_2181445	-0.10869	9.481545	-4.32975	7.15E-05	0.006341	1.522877
ILMN_1691112	-0.10861	7.70707	-3.68323	0.000565	0.025005	-0.38084
ILMN_1741736	-0.10856	8.045154	-3.84463	0.000342	0.018245	0.079826
ILMN_2352724	-0.10828	7.306223	-3.55057	0.000847	0.032718	-0.75126
ILMN_3261197	0.108269	10.5973	3.367275	0.001466	0.044915	-1.24988
ILMN_2058141	0.108209	11.87573	3.704362	0.000529	0.0243	-0.32114
ILMN_2144791	-0.10817	7.125175	-3.84095	0.000346	0.018403	0.069227
ILMN_2341467	0.108098	9.430058	3.773711	0.000427	0.020962	-0.1239
ILMN_1694504	0.108085	7.615096	3.590374	0.000751	0.030491	-0.64093
ILMN_1704500	-0.10804	6.769832	-3.56476	0.000812	0.032053	-0.712
ILMN_2124361	0.107929	6.170762	4.081002	0.000161	0.011128	0.772744
ILMN_1728224	0.107888	7.247527	3.320295	0.001683	0.048567	-1.37509
ILMN_2073010	0.107887	8.622636	3.416923	0.001266	0.041319	-1.11639
ILMN_1904135	0.107822	6.387132	3.634787	0.000656	0.027737	-0.517
ILMN_2346727	-0.10777	7.1026	-3.68242	0.000566	0.025036	-0.38314
ILMN_1755221	-0.10769	7.623086	-3.9651	0.000234	0.014174	0.430392
ILMN_1732053	0.107534	10.0834	3.339375	0.001592	0.047297	-1.32437
ILMN_1793267	0.107352	6.14238	3.35162	0.001535	0.046067	-1.29172
ILMN_1773066	-0.10693	7.448939	-3.39876	0.001336	0.042702	-1.16537
ILMN_1698166	-0.10678	7.116865	-4.02243	0.000194	0.012553	0.599142
ILMN_3244526	0.106686	7.229915	3.406511	0.001305	0.042165	-1.14448
ILMN_1770667	-0.10665	7.11012	-3.65104	0.000624	0.027053	-0.47144
ILMN_1761828	0.106447	8.61968	3.621738	0.000682	0.028587	-0.5535
ILMN_1702231	-0.10625	6.19729	-3.35878	0.001503	0.045462	-1.27261
ILMN_1867321	0.106126	6.243638	4.930747	9.41E-06	0.001673	3.407302
ILMN_1717337	-0.10572	10.11213	-3.86899	0.000317	0.017273	0.150263
ILMN_1775753	0.10554	6.932964	3.567036	0.000806	0.03191	-0.7057
ILMN_1788095	0.105261	6.731435	3.722433	0.000501	0.023352	-0.26993
ILMN_1749345	-0.10518	9.090378	-3.41393	0.001277	0.041531	-1.12448
ILMN_1735402	0.105141	7.127156	4.278508	8.47E-05	0.007087	1.366719
ILMN_1701655	0.105136	7.201903	3.812669	0.000378	0.019476	-0.01223

ILMN_1721344	-0.10505	6.880078	-3.64175	0.000642	0.027488	-0.49747
ILMN_1713406	0.105018	8.336282	3.920207	0.000269	0.015534	0.299118
ILMN_1767766	0.104824	9.131113	3.807658	0.000384	0.019694	-0.02662
ILMN_1811178	-0.10471	7.144893	-3.63926	0.000647	0.027631	-0.50448
ILMN_2083567	0.104483	6.215335	3.334859	0.001613	0.047559	-1.33639
ILMN_1673172	0.104229	6.986877	3.637125	0.000651	0.0277	-0.51045
ILMN_2352190	0.104157	6.39338	3.688705	0.000556	0.024798	-0.36539
ILMN_2412761	-0.10414	6.307542	-3.92087	0.000269	0.015534	0.301062
ILMN_3309468	0.10385	6.141024	4.500567	4.06E-05	0.00429	2.04898
ILMN_1766195	-0.10384	7.173367	-3.717	0.000509	0.023652	-0.28534
ILMN_1738883	-0.10366	6.05132	-3.61945	0.000687	0.028753	-0.5599
ILMN_1732705	0.103659	9.413949	3.860027	0.000326	0.017656	0.12433
ILMN_2150284	0.103456	7.344529	4.288491	8.20E-05	0.006902	1.397077
ILMN_1764873	-0.10329	5.920363	-3.76566	0.000438	0.021343	-0.1469
ILMN_1658144	-0.10323	7.851685	-4.67203	2.28E-05	0.00293	2.585089
ILMN_3247906	0.103035	8.076963	3.43884	0.001186	0.03959	-1.05708
ILMN_1688526	-0.10265	11.46092	-3.33296	0.001622	0.047632	-1.34145
ILMN_1684755	0.102469	6.098881	3.712874	0.000516	0.023889	-0.29704
ILMN_2327276	0.102459	10.67604	4.109121	0.000147	0.010521	0.856514
ILMN_2336109	0.102059	7.715795	4.129083	0.000138	0.010087	0.916146
ILMN_1682354	0.101986	6.46123	4.919535	9.78E-06	0.001712	3.371369
ILMN_1789575	-0.10181	6.965427	-4.29027	8.15E-05	0.006902	1.402486
ILMN_1722583	0.101468	7.463456	3.504267	0.000975	0.035332	-0.87869
ILMN_1689720	-0.10139	6.837395	-3.81371	0.000377	0.019442	-0.00923
ILMN_1745421	-0.10136	7.696077	-3.40653	0.001305	0.042165	-1.14444
ILMN_1688160	-0.10136	6.519732	-3.96819	0.000231	0.01406	0.439474
ILMN_1688853	0.101327	7.418838	4.18768	0.000114	0.008774	1.091972
ILMN_1666376	0.101309	7.528633	3.316112	0.001704	0.04894	-1.38618
ILMN_2396786	-0.10131	7.295269	-4.01067	0.000202	0.012866	0.564434
ILMN_1660577	-0.10115	11.44089	-3.64364	0.000638	0.027398	-0.49218
ILMN_1660232	0.101072	9.078017	3.323601	0.001667	0.048418	-1.36631
ILMN_1773080	-0.10104	12.90952	-3.5396	0.000876	0.033207	-0.78153
ILMN_1714623	0.101015	9.620491	3.662811	0.000602	0.026324	-0.43836
ILMN_2349459	0.10088	8.499249	3.348595	0.001549	0.046318	-1.2998
ILMN_1722532	-0.10088	7.896159	-3.68538	0.000561	0.024936	-0.37478
ILMN_2370464	0.100737	7.256077	3.314346	0.001713	0.04894	-1.39087
ILMN_3249501	0.100615	6.204479	4.164066	0.000123	0.009166	1.02098
ILMN_3238560	-0.10055	8.406128	-3.33944	0.001591	0.047297	-1.32419
ILMN_1782094	-0.10027	7.267839	-4.02281	0.000194	0.012553	0.600251
ILMN_1668426	-0.10004	6.007205	-4.09431	0.000154	0.010901	0.812354
ILMN_2095133	0.100021	8.352404	4.03933	0.000184	0.012201	0.649103
ILMN_1726107	0.099957	7.107832	4.702159	2.06E-05	0.002748	2.680049
ILMN_2357086	0.099948	5.587509	3.398261	0.001338	0.042702	-1.1667
ILMN_1818617	0.09988	6.776722	3.360539	0.001495	0.045325	-1.2679
ILMN_1719988	0.099841	6.098033	3.562142	0.000818	0.032056	-0.71925
ILMN_1677452	0.099558	8.020636	3.546757	0.000857	0.032877	-0.76178
ILMN_1778032	0.099459	8.78322	3.594463	0.000742	0.030188	-0.62955
ILMN_3246801	0.099006	6.258492	4.436944	5.02E-05	0.004955	1.852047
ILMN_1753575	0.098891	6.485391	3.876786	0.000309	0.016928	0.172866
ILMN_1672042	0.098724	7.272439	3.410424	0.00129	0.041926	-1.13393
ILMN_2380801	0.098702	6.182506	3.510175	0.000957	0.035078	-0.86249
ILMN_1691980	-0.09862	6.551937	-3.4983	0.000992	0.035741	-0.89503
ILMN_2344079	0.09857	6.244167	3.840913	0.000346	0.018403	0.069108
ILMN_1803819	-0.09856	9.694341	-4.33494	7.03E-05	0.006282	1.53871

ILMN_1798659	-0.09851	8.113755	-3.38289	0.0014	0.043982	-1.20802
ILMN_1694486	-0.09839	6.609586	-3.98166	0.000222	0.013735	0.479006
ILMN_1671516	-0.09837	7.946452	-3.76597	0.000437	0.021343	-0.14601
ILMN_1660844	-0.09829	8.236984	-3.57318	0.000791	0.031501	-0.68866
ILMN_1699987	-0.09814	6.630318	-3.58789	0.000757	0.030654	-0.64783
ILMN_2098947	0.097789	6.221145	3.98461	0.000219	0.013631	0.487689
ILMN_1760682	0.09777	6.726168	3.586475	0.00076	0.030714	-0.65176
ILMN_1729188	0.097728	6.18162	3.316423	0.001702	0.04894	-1.38536
ILMN_1713732	0.097719	7.408825	3.513201	0.000949	0.034911	-0.85418
ILMN_1687751	0.097687	6.294353	3.40336	0.001318	0.042415	-1.15297
ILMN_2367141	0.097646	6.138928	4.486616	4.25E-05	0.004454	2.005701
ILMN_3307648	0.0975	10.48895	4.152398	0.000128	0.009459	0.985967
ILMN_1811301	0.097492	7.229325	4.025661	0.000192	0.012526	0.60868
ILMN_1670377	0.097453	6.558711	3.575401	0.000786	0.031452	-0.68251
ILMN_3194087	-0.09724	6.69329	-3.39717	0.001342	0.042762	-1.16965
ILMN_1796464	-0.09707	6.732443	-3.97836	0.000224	0.013806	0.46933
ILMN_1730631	0.097025	7.288177	3.647719	0.00063	0.027218	-0.48075
ILMN_1750008	0.09699	7.387539	3.46873	0.001084	0.03761	-0.97583
ILMN_1721241	0.096955	6.310762	3.82963	0.000358	0.018776	0.036578
ILMN_1676745	0.09691	7.911071	4.256767	9.10E-05	0.007431	1.300714
ILMN_1690761	0.09686	8.819047	3.88623	0.0003	0.016569	0.200264
ILMN_2052163	-0.09682	9.130896	-3.44622	0.00116	0.03905	-1.03707
ILMN_1722981	-0.09665	6.391925	-3.48958	0.001019	0.036364	-0.9189
ILMN_1844905	-0.09641	6.367295	-3.56443	0.000813	0.032053	-0.71292
ILMN_2161556	0.096378	6.790024	4.515731	3.86E-05	0.004141	2.096081
ILMN_2049417	0.096302	5.960285	3.513685	0.000947	0.034911	-0.85285
ILMN_2156953	-0.09594	7.779871	-4.53731	3.59E-05	0.003963	2.163221
ILMN_1694385	0.095808	11.85941	3.913619	0.000275	0.015619	0.279917
ILMN_1674698	0.095779	7.212241	4.085547	0.000159	0.011033	0.786263
ILMN_1698940	0.095768	13.88241	3.498004	0.000993	0.035741	-0.89585
ILMN_1812281	0.09549	5.969044	3.69548	0.000544	0.024713	-0.34626
ILMN_1713450	0.095469	9.115566	3.437299	0.001191	0.039657	-1.06126
ILMN_1652412	-0.09542	6.524361	-3.71248	0.000516	0.023889	-0.29815
ILMN_1792518	-0.09535	8.309534	-3.55593	0.000834	0.032408	-0.73643
ILMN_1738369	0.095124	10.02442	4.042827	0.000182	0.01217	0.659455
ILMN_2222317	-0.09496	7.504694	-3.9435	0.00025	0.014894	0.36713
ILMN_1710652	0.094928	6.22486	3.381187	0.001407	0.044059	-1.21259
ILMN_2290068	-0.09481	5.847125	-4.13847	0.000134	0.009854	0.944225
ILMN_1803564	-0.0948	8.155443	-3.63507	0.000655	0.027737	-0.51621
ILMN_2402805	0.094731	7.960192	3.565411	0.00081	0.032031	-0.7102
ILMN_1671374	0.09456	9.250392	3.531371	0.000898	0.03384	-0.80421
ILMN_1688070	0.094556	7.090268	3.431278	0.001213	0.040162	-1.07757
ILMN_1753980	-0.09452	7.043688	-4.49934	4.07E-05	0.004294	2.045159
ILMN_2058512	-0.09435	8.228484	-3.73553	0.000481	0.022762	-0.23273
ILMN_1698680	0.094204	6.402033	4.091813	0.000156	0.010944	0.804916
ILMN_1796900	-0.09402	7.310991	-3.77876	0.00042	0.020724	-0.10947
ILMN_2363586	-0.09381	10.02952	-4.03585	0.000186	0.012254	0.638803
ILMN_1701604	-0.09366	6.390781	-3.57887	0.000778	0.031213	-0.67289
ILMN_1684258	-0.09362	13.89482	-4.84762	1.25E-05	0.001927	3.141521
ILMN_2412214	-0.09358	5.800786	-3.87785	0.000308	0.016904	0.175947
ILMN_1713936	-0.09346	6.452103	-3.82175	0.000367	0.019072	0.013894
ILMN_1769191	0.093225	12.14777	3.515665	0.000942	0.034873	-0.84741
ILMN_1727880	0.093119	5.588242	3.516194	0.00094	0.034855	-0.84596
ILMN_1663489	-0.09301	7.630736	-3.92091	0.000269	0.015534	0.301156

ILMN_1656706	0.092822	5.463017	4.34745	6.75E-05	0.006091	1.576987
ILMN_1795711	0.092655	5.933911	3.896968	0.00029	0.016171	0.231457
ILMN_2147435	-0.0926	8.722297	-3.69223	0.00055	0.024798	-0.35543
ILMN_1663772	0.092454	6.030705	3.654784	0.000617	0.026811	-0.46092
ILMN_1840934	0.092274	6.305919	3.423421	0.001241	0.040845	-1.09883
ILMN_1732049	0.092268	7.307442	3.3788	0.001417	0.044216	-1.219
ILMN_1698404	-0.09227	6.749597	-3.39032	0.00137	0.043317	-1.18805
ILMN_3240962	0.092263	6.771073	3.5193	0.000931	0.034679	-0.83742
ILMN_1682062	0.092234	6.578357	3.546765	0.000857	0.032877	-0.76176
ILMN_2389151	-0.0922	10.55855	-3.38591	0.001388	0.043766	-1.19992
ILMN_1800447	-0.09187	8.299848	-4.12091	0.000142	0.010277	0.891718
ILMN_1791884	0.091862	6.724049	3.776533	0.000423	0.020838	-0.11583
ILMN_3248057	0.091861	6.076667	4.950503	8.79E-06	0.001614	3.470677
ILMN_1681798	0.091777	6.133635	3.65202	0.000622	0.027005	-0.46868
ILMN_2296843	0.091553	7.075077	3.341793	0.00158	0.047131	-1.31793
ILMN_2225887	0.091535	12.82245	3.81848	0.000371	0.019211	0.004479
ILMN_1661409	0.091431	6.498988	3.794714	0.0004	0.020061	-0.06377
ILMN_2153485	-0.09108	6.056836	-4.26476	8.86E-05	0.007286	1.324969
ILMN_1704398	0.090493	5.50716	3.766217	0.000437	0.021343	-0.1453
ILMN_1809212	-0.09037	6.2086	-3.63104	0.000663	0.028014	-0.52748
ILMN_2274531	0.09031	6.273664	3.929466	0.000262	0.015308	0.326134
ILMN_1741391	-0.09025	7.728987	-3.82714	0.000361	0.018895	0.029415
ILMN_3262348	0.090213	6.846546	3.628027	0.000669	0.028179	-0.53591
ILMN_1767111	0.089716	6.715365	3.452807	0.001137	0.038458	-1.01917
ILMN_1666019	0.089581	6.638663	3.670931	0.000587	0.025871	-0.41551
ILMN_2342579	0.089501	5.564237	3.482111	0.001042	0.036685	-0.93932
ILMN_1652819	0.089493	6.465272	3.467778	0.001087	0.037641	-0.97843
ILMN_1665060	-0.08948	6.251033	-3.44563	0.001162	0.03908	-1.03865
ILMN_3235168	0.089228	8.770873	3.321528	0.001677	0.048546	-1.37182
ILMN_1741398	0.089212	6.951261	3.470842	0.001078	0.037448	-0.97008
ILMN_1771238	-0.08904	7.869939	-4.01338	0.0002	0.012779	0.572436
ILMN_2193498	-0.08886	6.518431	-3.61054	0.000706	0.029332	-0.58475
ILMN_1677305	0.088838	7.166174	3.452696	0.001138	0.038458	-1.01947
ILMN_1661307	0.088734	5.799211	3.905069	0.000283	0.015964	0.255021
ILMN_2098616	-0.08859	6.798537	-3.33455	0.001614	0.047559	-1.3372
ILMN_1771738	-0.08848	7.554359	-3.50964	0.000959	0.035098	-0.86396
ILMN_1789535	0.088435	6.954984	4.221496	0.000102	0.008185	1.193952
ILMN_3238402	0.088432	5.941097	3.704776	0.000529	0.0243	-0.31997
ILMN_1680703	0.08834	10.15744	4.640918	2.53E-05	0.003133	2.48725
ILMN_1781001	-0.0881	6.255321	-3.34503	0.001565	0.046724	-1.30929
ILMN_1682335	-0.0879	6.310612	-3.68856	0.000556	0.024798	-0.36582
ILMN_2111918	-0.0879	8.222654	-3.30673	0.001751	0.04982	-1.41104
ILMN_1789618	-0.08776	6.918948	-3.43868	0.001186	0.03959	-1.05751
ILMN_2089340	-0.08776	6.555807	-3.5417	0.000871	0.033133	-0.77575
ILMN_1812898	0.087652	5.747437	3.437522	0.00119	0.039657	-1.06065
ILMN_2110496	-0.08759	6.781827	-4.29689	7.97E-05	0.006787	1.422636
ILMN_2280731	-0.08733	6.640289	-3.64107	0.000643	0.027512	-0.4994
ILMN_1765060	-0.08709	8.299388	-3.39352	0.001357	0.043027	-1.17946
ILMN_1729167	-0.08709	7.546048	-4.40317	5.61E-05	0.005419	1.747976
ILMN_1675055	0.086687	7.704113	3.919883	0.00027	0.015534	0.298174
ILMN_1683044	-0.08666	8.296903	-3.32379	0.001666	0.048418	-1.36582
ILMN_1656145	0.086635	10.027	3.355723	0.001517	0.045753	-1.28077
ILMN_1688435	-0.08655	6.027814	-3.66478	0.000598	0.026232	-0.43283
ILMN_1792860	0.086297	6.301839	4.089169	0.000157	0.010993	0.797044

ILMN_1672122	0.086186	5.998331	3.425486	0.001234	0.040665	-1.09324
ILMN_1743643	0.085852	6.202437	3.547171	0.000856	0.032877	-0.76064
ILMN_1688534	0.08559	7.514029	3.420846	0.001251	0.041004	-1.10579
ILMN_3289631	-0.0849	5.915389	-3.64618	0.000633	0.027241	-0.48506
ILMN_1706553	0.084638	9.101854	3.479934	0.001049	0.036887	-0.94527
ILMN_1718042	0.084435	6.34898	3.437144	0.001192	0.039657	-1.06168
ILMN_2081682	0.084345	7.750483	3.799961	0.000393	0.01988	-0.04872
ILMN_1719763	0.084344	5.881417	4.115445	0.000144	0.010394	0.875391
ILMN_1725175	-0.08425	6.93202	-4.19078	0.000113	0.008743	1.101295
ILMN_1698715	-0.08416	6.978506	-3.65688	0.000613	0.026706	-0.45502
ILMN_1739454	-0.08364	7.317376	-4.36706	6.33E-05	0.005854	1.637055
ILMN_1685125	0.083364	6.304599	4.206249	0.000107	0.008446	1.147927
ILMN_1727361	0.083351	8.569409	3.523255	0.00092	0.034417	-0.82655
ILMN_1893764	0.083263	6.633854	3.45882	0.001117	0.038166	-1.00282
ILMN_1790354	-0.08288	10.19535	-3.39948	0.001333	0.042678	-1.16343
ILMN_1673944	0.082811	10.05075	3.386617	0.001385	0.043715	-1.19801
ILMN_1723846	0.082361	7.409379	3.558781	0.000827	0.032266	-0.72855
ILMN_1722742	-0.08234	6.338646	-3.33293	0.001622	0.047632	-1.34152
ILMN_1715546	0.082067	6.674725	3.374367	0.001436	0.044352	-1.23088
ILMN_1828216	0.081858	6.239727	3.471035	0.001077	0.037448	-0.96955
ILMN_1726025	0.081766	7.314399	3.608685	0.00071	0.029463	-0.58994
ILMN_1651642	0.081748	6.414432	3.383956	0.001396	0.0439	-1.20516
ILMN_2279217	-0.08169	6.027258	-4.25998	9.00E-05	0.007371	1.310469
ILMN_1700048	0.081616	5.846974	3.522609	0.000922	0.034446	-0.82833
ILMN_1742923	0.081258	6.171055	3.427659	0.001226	0.040519	-1.08736
ILMN_1806310	-0.08126	5.994995	-3.38214	0.001403	0.043982	-1.21004
ILMN_1706959	0.081203	8.660833	3.552337	0.000843	0.032579	-0.74637
ILMN_1726930	-0.08109	7.077231	-3.83218	0.000356	0.018691	0.043915
ILMN_2141157	-0.08103	6.212235	-4.31096	7.61E-05	0.006596	1.46551
ILMN_1793615	-0.08099	5.851298	-3.46684	0.001091	0.037673	-0.98099
ILMN_1715181	0.080834	6.690597	3.483711	0.001037	0.036654	-0.93495
ILMN_1678627	0.080782	5.3752	4.266372	8.81E-05	0.007286	1.329856
ILMN_1692896	0.080746	6.625689	3.568255	0.000803	0.031902	-0.70232
ILMN_1735415	0.080736	7.315729	3.314233	0.001713	0.04894	-1.39117
ILMN_3297317	0.080418	13.90607	3.783083	0.000415	0.020575	-0.09709
ILMN_3245143	-0.08022	5.815494	-3.80461	0.000388	0.01978	-0.03537
ILMN_1776352	-0.08009	7.781603	-3.44382	0.001168	0.039253	-1.04356
ILMN_1774281	-0.08001	6.209842	-3.33091	0.001632	0.047848	-1.34688
ILMN_2197128	0.079973	6.431742	3.330231	0.001635	0.047848	-1.3487
ILMN_2177460	0.079857	6.285313	3.316432	0.001702	0.04894	-1.38534
ILMN_1769503	-0.07962	5.950628	-3.33759	0.0016	0.047389	-1.32912
ILMN_1698725	0.079448	6.157744	3.917272	0.000272	0.015534	0.290564
ILMN_3245893	-0.0793	6.436412	-3.46023	0.001112	0.038043	-0.99897
ILMN_1662334	0.079128	9.877035	4.099661	0.000152	0.010781	0.828299
ILMN_2366714	-0.07908	7.945501	-3.51268	0.00095	0.034911	-0.8556
ILMN_2049642	-0.07889	10.4411	-3.91907	0.00027	0.015534	0.2958
ILMN_1718898	0.078805	6.109315	3.590075	0.000752	0.030491	-0.64176
ILMN_1773716	0.078737	7.94473	3.423365	0.001242	0.040845	-1.09898
ILMN_2134224	0.078722	6.828101	3.848606	0.000338	0.018131	0.091317
ILMN_1782730	0.078428	6.297205	4.27458	8.58E-05	0.007145	1.354782
ILMN_1692486	0.078346	8.511366	3.801548	0.000391	0.019839	-0.04417
ILMN_1722771	-0.07816	5.778356	-3.54389	0.000865	0.033089	-0.76969
ILMN_3268590	0.077823	5.775323	3.516837	0.000938	0.034825	-0.84419
ILMN_1721628	0.077529	5.548135	3.353768	0.001526	0.045896	-1.28599

ILMN_2388965	0.077408	5.253054	4.08695	0.000158	0.011033	0.790439
ILMN_2124425	0.077408	5.376862	3.615942	0.000695	0.028957	-0.56968
ILMN_1676159	-0.07724	9.37641	-3.31593	0.001705	0.04894	-1.38667
ILMN_2390586	-0.07637	7.047253	-3.81925	0.00037	0.019194	0.006685
ILMN_1809094	-0.07597	6.7153	-3.46461	0.001098	0.037789	-0.98707
ILMN_1713454	0.07573	6.15932	3.432302	0.001209	0.040078	-1.07479
ILMN_1803094	0.075213	6.214764	3.5056	0.000971	0.035265	-0.87504
ILMN_1696826	0.074385	5.909971	4.184926	0.000115	0.008798	1.083682
ILMN_1737818	0.074303	7.595981	3.330799	0.001632	0.047848	-1.34719
ILMN_1806782	0.074235	6.27442	3.377609	0.001422	0.044289	-1.22219
ILMN_1705330	-0.0737	6.392187	-3.34973	0.001544	0.046203	-1.29675
ILMN_1761181	0.073293	5.857509	3.562204	0.000818	0.032056	-0.71908
ILMN_1792242	0.073257	5.673458	3.315421	0.001707	0.04894	-1.38802
ILMN_1712751	0.073132	7.449822	3.354747	0.001521	0.045804	-1.28337
ILMN_1801395	-0.07282	5.985178	-3.33039	0.001634	0.047848	-1.34828
ILMN_1699836	0.072332	5.569219	3.441598	0.001176	0.039438	-1.0496
ILMN_1715654	0.072229	6.159278	3.493423	0.001007	0.036049	-0.9084
ILMN_1748607	-0.07213	5.781067	-3.52367	0.000919	0.03441	-0.82539
ILMN_1713247	-0.07186	5.57309	-3.48722	0.001026	0.036495	-0.92537
ILMN_1689651	0.07114	5.329057	3.727953	0.000492	0.023093	-0.25427
ILMN_1799669	-0.07091	6.169469	-3.60346	0.000722	0.029718	-0.60451
ILMN_1676594	-0.07084	5.782597	-3.51472	0.000944	0.034911	-0.85001
ILMN_1789955	-0.07046	5.498019	-3.40629	0.001306	0.042165	-1.14506
ILMN_2410905	-0.07006	5.267522	-3.38672	0.001384	0.043715	-1.19773
ILMN_1696767	0.069905	5.26613	3.404329	0.001314	0.042371	-1.15036
ILMN_1815570	0.069839	6.374613	3.476571	0.001059	0.037034	-0.95445
ILMN_1767441	0.069765	6.13581	3.68844	0.000556	0.024798	-0.36614
ILMN_2209766	-0.06973	6.632917	-3.48457	0.001034	0.036639	-0.9326
ILMN_3300358	0.069564	6.250778	3.482501	0.00104	0.036679	-0.93826
ILMN_1728802	-0.06932	5.97848	-3.48819	0.001023	0.036431	-0.92272
ILMN_1887128	-0.06927	6.128285	-3.8509	0.000335	0.018029	0.097944
ILMN_1759312	-0.06919	5.296898	-3.40259	0.001321	0.042432	-1.15504
ILMN_2085446	0.06817	6.516636	3.3381	0.001598	0.047389	-1.32776
ILMN_1661002	-0.06753	9.235879	-3.52587	0.000913	0.034221	-0.81936
ILMN_1651498	0.066353	5.48707	3.320379	0.001683	0.048567	-1.37487
ILMN_3225014	0.066123	5.747072	3.42179	0.001247	0.040958	-1.10324
ILMN_1885908	-0.06612	5.936269	-3.58262	0.000769	0.031004	-0.66247
ILMN_1761844	0.066018	8.75912	3.485764	0.00103	0.036546	-0.92934
ILMN_1693319	-0.06332	5.331141	-3.46317	0.001103	0.037822	-0.99097
ILMN_2338849	-0.06286	5.81064	-3.59854	0.000733	0.030029	-0.61822
ILMN_1759801	0.062286	7.855688	3.456994	0.001123	0.038324	-1.00778
ILMN_2038773	-0.06124	14.04246	-3.33314	0.001621	0.047632	-1.34095
ILMN_2084912	-0.05984	5.261935	-3.4399	0.001182	0.03959	-1.05419
ILMN_3211262	0.059778	5.588309	3.351735	0.001535	0.046067	-1.29142
ILMN_1673042	0.059436	6.00835	3.618257	0.00069	0.028788	-0.56322
ILMN_2331501	-0.0583	14.14271	-3.45588	0.001127	0.038349	-1.01083
ILMN_1736234	0.055856	8.677606	3.471953	0.001074	0.037399	-0.96705

Supplementary Table S4. Genes showing significant concentration-dependent associations with levels of HPV16 E7 protein in the W12 clones, after exclusion of known p53 targets.

	logFC	AveExpr	t	P.Value	adj.P.Val	B
ILMN_2133205	-0.69081606	7.99216877	-5.434234286	1.62786E-06	0.000660259	5.034164943
ILMN_1739513	0.604786058	7.219707756	8.73629807	1.22083E-11	4.20894E-07	16.21004505
ILMN_1744604	-0.586736389	7.452409232	-6.368581534	5.80282E-08	6.21511E-05	8.197194939
ILMN_2391861	-0.58146284	8.151042478	-4.662890606	2.34913E-05	0.002999582	2.511430461
ILMN_1725139	0.565743007	6.326501386	7.51379229	9.38235E-10	6.46932E-06	12.10954146
ILMN_1773006	-0.55724265	10.33058279	-3.284381713	0.001869435	0.044571665	-1.564808264
ILMN_1705750	-0.441252203	9.719860872	-5.369658152	2.0432E-06	0.000741489	4.818896084
ILMN_1668134	-0.427845205	6.914500691	-3.333975919	0.001617036	0.040662965	-1.431979315
ILMN_1788874	0.411575486	7.706951017	4.32059777	7.37427E-05	0.006355887	1.4361046
ILMN_1705080	-0.40105173	8.187943267	-4.27216586	8.64784E-05	0.006982696	1.286748685
ILMN_1772627	-0.38929497	8.074500632	-4.808453546	1.43184E-05	0.002349659	2.97812617
ILMN_1762255	-0.387429166	7.106343715	-3.230938793	0.002182939	0.04951251	-1.706528162
ILMN_1812403	-0.371523466	9.949196794	-4.952175936	8.74355E-06	0.001684037	3.443709792
ILMN_1682015	0.370871001	8.023019495	3.887879387	0.000298325	0.015373789	0.130088999
ILMN_1673639	-0.367455572	7.225538082	-4.707037288	2.02263E-05	0.002834636	2.652426128
ILMN_1671478	-0.365558346	8.875750533	-5.909231965	3.01483E-07	0.000206424	6.633195965
ILMN_2072178	0.336319958	7.401153344	4.91526345	9.92829E-06	0.001858065	3.323705116
ILMN_1775814	-0.330473923	8.011236094	-3.611781457	0.000703495	0.024698252	-0.665710356
ILMN_3249032	0.32352468	7.755068973	4.622502857	2.69274E-05	0.00328038	2.382872901
ILMN_1699989	-0.322204513	8.280025947	-4.836820403	1.29946E-05	0.002206412	3.069657724
ILMN_1754241	0.320600998	7.183668741	3.920536532	0.000269039	0.014425195	0.22627846
ILMN_1705107	-0.309738213	8.067200163	-3.823755691	0.000365025	0.017052307	-0.057557178
ILMN_1790227	-0.309427044	8.273253594	-3.76294215	0.000441397	0.018973996	-0.233977083
ILMN_1693338	0.303946945	8.093768737	3.309335964	0.001738105	0.042498505	-1.498129471
ILMN_1744765	-0.301370098	11.11599086	-3.415095266	0.001272501	0.034790444	-1.212054595
ILMN_2242463	0.295329948	10.18413434	5.304838316	2.56523E-06	0.000820235	4.603434503
ILMN_2096372	-0.294100034	6.843430779	-3.445070773	0.001163826	0.033105678	-1.129969727
ILMN_1690017	-0.290045091	8.585351717	-3.297978687	0.001796754	0.043525466	-1.528516101
ILMN_1805665	-0.282212258	9.899023581	-4.772988676	1.6161E-05	0.002454475	2.86395239
ILMN_1737561	-0.280160022	7.754603778	-4.796294912	1.49256E-05	0.002349659	2.938950315
ILMN_2138765	0.27958152	7.772093849	6.15026449	1.27172E-07	0.000101962	7.452398073
ILMN_2390919	-0.269610984	7.823265094	-4.84969472	1.24341E-05	0.002198351	3.111259521
ILMN_2304512	0.263785142	8.426434592	3.512193909	0.000951626	0.029398089	-0.944599546
ILMN_2376723	-0.257203244	9.075358902	-5.290871944	2.69391E-06	0.000839969	4.557095056
ILMN_1651496	-0.255719192	9.321274314	-3.474688831	0.001065162	0.03116883	-1.048438888
ILMN_1696347	0.254268017	9.758518681	4.311321696	7.60315E-05	0.006440445	1.407441359
ILMN_1706015	-0.251978895	7.10022439	-3.335179203	0.001611333	0.040600074	-1.428741032
ILMN_1711087	-0.245690545	8.940669647	-5.58841911	9.44144E-07	0.000438736	5.550430731
ILMN_1774602	-0.245031785	8.368134171	-4.834020371	1.31197E-05	0.002206412	3.060614701
ILMN_1808590	0.244657643	7.18808754	3.810764404	0.000380188	0.017435104	-0.095372325
ILMN_1660067	0.239113589	7.137711934	4.834179622	1.31125E-05	0.002206412	3.061128974
ILMN_1667966	-0.237567824	7.760318553	-5.395071302	1.86853E-06	0.000715772	4.903541006
ILMN_1760990	-0.237268838	6.710186996	-5.289764156	2.70439E-06	0.000839969	4.553420812
ILMN_1798006	-0.234468968	7.928235922	-3.734576189	0.000482068	0.019832651	-0.315741353
ILMN_3244348	0.232542783	8.046508909	6.477717038	3.91743E-08	5.35713E-05	8.570171447
ILMN_1751086	0.230310703	9.493877108	5.759145075	5.14908E-07	0.000306068	6.125371429
ILMN_3227023	-0.23001724	9.465506347	-5.6941025	6.48928E-07	0.000366761	5.905962054
ILMN_3234089	-0.228138307	7.081691467	-4.222943136	0.000101606	0.007390097	1.135726128
ILMN_1743103	-0.225103715	10.09195226	-4.85508309	1.22067E-05	0.002169262	3.12868241
ILMN_3242586	-0.225102888	6.789435012	-3.673373877	0.00058243	0.022310943	-0.490990257

ILMN_1800130	-0.224479568	7.260116812	-4.682044429	2.20158E-05	0.002875057	2.572544029
ILMN_1799098	-0.224440989	10.47357299	-6.664318918	1.99966E-08	3.44702E-05	9.208464827
ILMN_1800317	-0.22350407	6.100467508	-4.73141825	1.86183E-05	0.002685707	2.730500877
ILMN_3305614	-0.223368093	6.399203071	-3.957931005	0.000238909	0.013337338	0.336927568
ILMN_1695945	-0.221304142	6.886069381	-6.481233056	3.86814E-08	5.35713E-05	8.582192824
ILMN_1790100	0.219813055	8.226172551	5.730934118	5.69281E-07	0.000327109	6.030153859
ILMN_2160209	0.219490692	6.731097227	4.859041812	1.20422E-05	0.002151118	3.141486766
ILMN_1699651	0.218890296	6.608252975	3.239463627	0.002129806	0.048562949	-1.684021809
ILMN_1700583	0.218227029	9.328274748	3.818622526	0.000370945	0.017189122	-0.072507039
ILMN_1721876	-0.216364977	8.700419317	-5.122888993	4.84206E-06	0.001192391	4.002271707
ILMN_1777233	0.215540938	8.912187296	6.414196826	4.92422E-08	5.65891E-05	8.353046659
ILMN_1856480	-0.214646444	7.171697048	-3.953969429	0.00024194	0.013410175	0.325180073
ILMN_1749096	0.212726388	6.532684661	3.974450438	0.000226663	0.01305066	0.385977694
ILMN_1708934	-0.21218095	11.66936382	-4.556297003	3.3652E-05	0.003769727	2.173058244
ILMN_1693471	0.211880179	8.40287487	3.659052725	0.000608656	0.022886172	-0.531764293
ILMN_1781285	-0.207384102	10.9608232	-3.970814137	0.000229305	0.013127837	0.375171805
ILMN_1711069	-0.207365644	9.757086349	-4.365354615	6.36097E-05	0.005842125	1.574779422
ILMN_2095610	-0.205748074	9.971736434	-6.183609185	1.12826E-07	9.26141E-05	7.566011811
ILMN_1810725	-0.20454778	7.339040559	-4.126050766	0.000139254	0.009322172	0.840803468
ILMN_2186983	-0.203337649	10.29542032	-5.879732506	3.3498E-07	0.000217901	6.533227358
ILMN_1678655	-0.202616789	9.884597969	-3.297783238	0.00179778	0.043525466	-1.529038451
ILMN_3224926	0.202020378	8.871704037	4.835870289	1.30369E-05	0.002206412	3.066589024
ILMN_3242004	-0.20152848	9.102102216	-5.679996016	6.82279E-07	0.000372997	5.858434477
ILMN_3236858	-0.201080371	6.435354039	-3.828722864	0.000359383	0.016949503	-0.04308058
ILMN_1739450	-0.200962318	9.157352887	-6.319265215	6.92932E-08	6.63598E-05	8.028776021
ILMN_1772910	-0.199887607	8.398031431	-4.433315319	5.07675E-05	0.004902692	1.786510553
ILMN_3306730	0.198533654	8.639005981	4.871313943	1.1546E-05	0.002095043	3.181202652
ILMN_1675616	0.197984324	6.875555063	4.674844139	2.25595E-05	0.002934946	2.549559417
ILMN_1657766	-0.195994708	10.09657349	-4.696233253	2.09816E-05	0.002858752	2.617875261
ILMN_1793017	-0.195238893	7.235809229	-6.339357904	6.44619E-08	6.34968E-05	8.097383583
ILMN_1696270	-0.195203211	8.109972371	-6.4444893	4.41541E-08	5.48717E-05	8.456579329
ILMN_2413816	0.194739056	6.652781464	4.318761034	7.41905E-05	0.006378536	1.430426911
ILMN_1749109	-0.192449327	11.15245326	-6.469158372	4.04007E-08	5.35713E-05	8.54091029
ILMN_1791580	-0.191163585	7.516766911	-4.139493976	0.000133319	0.009067373	0.8815308
ILMN_1792679	0.190884687	7.392166643	5.616247963	8.55478E-07	0.000409631	5.643927145
ILMN_1672908	-0.190029403	6.931672228	-3.88584416	0.000300249	0.015384685	0.124108179
ILMN_1788192	-0.189931105	6.735081722	-4.171442236	0.000120181	0.008435971	0.97857037
ILMN_1729217	-0.189654983	6.337149941	-3.90234596	0.000284991	0.014932161	0.172648018
ILMN_1731640	-0.188879701	8.258373683	-3.583765928	0.000766212	0.025766729	-0.744623495
ILMN_1686555	-0.188776926	6.82099883	-5.603471483	8.95111E-07	0.000422737	5.600990798
ILMN_1799106	0.188677261	7.097389027	5.035170511	6.56441E-06	0.001468809	3.714552519
ILMN_1685540	0.188063075	7.832534157	6.99285609	6.11633E-09	1.81181E-05	10.33249881
ILMN_1775114	-0.18800111	7.008211087	-4.759288223	1.69334E-05	0.002505568	2.819924898
ILMN_2355559	-0.187680333	11.20146333	-5.519534969	1.20472E-06	0.000512766	5.31940396
ILMN_1678669	0.186617129	7.898199559	4.439089744	4.98012E-05	0.004863867	1.804563809
ILMN_2365686	0.185660958	9.254504264	4.583386116	3.07222E-05	0.003614948	2.258765943
ILMN_1741755	-0.184704068	9.953249213	-5.348926663	2.19758E-06	0.000773098	4.749915185
ILMN_1709307	-0.184410067	7.171161366	-3.706517537	0.000525825	0.020981412	-0.396284954
ILMN_2180371	0.183056046	7.825553085	4.364051922	6.38845E-05	0.005842125	1.570734456
ILMN_1778360	-0.181926162	10.85475199	-4.375464462	6.15161E-05	0.005670668	1.606188858
ILMN_1676361	-0.181459616	7.368993026	-5.379348197	1.97477E-06	0.00072428	4.851160093
ILMN_3248857	0.180973672	6.346805873	6.936004619	7.50766E-09	1.84881E-05	10.13806579
ILMN_1692938	0.180920967	8.625168167	5.423327133	1.69162E-06	0.000678144	4.997763526
ILMN_1669433	-0.180796705	8.76455444	-5.322499946	2.41117E-06	0.000807064	4.662078245

ILMN_1787265	-0.179947208	8.776492154	-4.124454541	0.000139975	0.009352316	0.835971736
ILMN_1886515	-0.179759802	8.070173077	-4.52876612	3.69091E-05	0.003964103	2.086157012
ILMN_2342437	0.179461728	7.164943946	5.106722261	5.12191E-06	0.001243056	3.94913595
ILMN_2330307	0.179245561	7.789457065	4.218576517	0.000103066	0.00745919	1.122367006
ILMN_2125346	-0.178228373	6.785924135	-3.740125974	0.000473837	0.019681937	-0.299770861
ILMN_3251691	0.177896819	7.470628025	4.456042621	4.70667E-05	0.004730816	1.857621624
ILMN_1711994	0.17738201	7.334313561	5.234759307	3.27838E-06	0.000941879	4.371232742
ILMN_2390974	-0.176315262	9.158101172	-5.108661255	5.08752E-06	0.001243056	3.95550637
ILMN_1704537	0.174733415	9.658633574	3.558422992	0.000827522	0.026892586	-0.815702295
ILMN_2376050	-0.174418352	8.043913138	-3.957664218	0.000239112	0.013337338	0.336136263
ILMN_1692026	0.174249718	7.547477453	7.133646458	3.68248E-09	1.58696E-05	10.81370447
ILMN_1749118	0.173849678	6.735765352	3.493217695	0.001007547	0.030416973	-0.997221387
ILMN_1724139	0.172771062	11.04195193	5.130281889	4.71916E-06	0.001178969	4.02658611
ILMN_2326712	0.172670154	7.108977109	4.557986414	3.34616E-05	0.003769727	2.17839761
ILMN_1809695	-0.172032373	8.243369376	-4.09577975	0.000153572	0.010008618	0.749325765
ILMN_1698732	0.171963635	9.84195521	4.398668037	5.69618E-05	0.005349064	1.678394828
ILMN_1664861	-0.171785172	10.51661568	-4.256030437	9.11785E-05	0.007161366	1.237156045
ILMN_3201453	0.171559671	9.408963236	4.976451759	8.0414E-06	0.001575201	3.522786754
ILMN_2131177	0.170944003	6.861965588	3.57975505	0.000775617	0.025860693	-0.755892192
ILMN_1811195	-0.170777634	6.387586903	-6.000661858	2.17402E-07	0.000162938	6.943470744
ILMN_1732609	-0.170355087	7.328232052	-4.307224194	7.70644E-05	0.006480173	1.394788601
ILMN_1903021	-0.170261062	6.660382587	-4.928029357	9.50171E-06	0.001809839	3.365175324
ILMN_1754842	-0.170090714	7.573755813	-5.858034943	3.61955E-07	0.000231088	6.459744675
ILMN_1723412	-0.169892927	8.099925286	-4.098267393	0.000152344	0.00996623	0.756831168
ILMN_1737283	-0.169839612	8.270081685	-3.433751064	0.001203785	0.033496112	-1.161018718
ILMN_1797822	-0.169819001	7.703848732	-3.598168462	0.00073333	0.025231822	-0.704099099
ILMN_2087941	-0.169218725	7.976438825	-4.338841335	6.94355E-05	0.006169738	1.492555873
ILMN_1838942	0.168967176	7.333424158	3.62623211	0.000673096	0.024223018	-0.624868682
ILMN_2151281	-0.168798031	7.544568822	-3.640881204	0.000643565	0.023684694	-0.583371392
ILMN_1673522	0.168705945	8.374232556	6.962167447	6.83186E-09	1.81181E-05	10.22755008
ILMN_1685413	0.168321935	9.058596142	5.340975739	2.25979E-06	0.000786956	4.723476787
ILMN_1700310	-0.16805555	6.956644075	-3.32054578	0.001681997	0.041479641	-1.468072959
ILMN_1800091	0.167428076	6.191857456	6.115846563	1.43886E-07	0.000112741	7.335191582
ILMN_1789775	0.167217551	8.644514677	4.804303276	1.45229E-05	0.002349659	2.964749906
ILMN_1801077	0.167032943	6.694602711	6.731630223	1.56876E-08	3.0047E-05	9.438796451
ILMN_1673543	0.167020085	8.339836748	6.300341597	7.4173E-08	6.91132E-05	7.964174301
ILMN_3305273	0.166487504	7.434980595	6.485870956	3.80406E-08	5.35713E-05	8.598050381
ILMN_2404065	-0.165148456	9.856242498	-6.211028258	1.02246E-07	8.81259E-05	7.659478477
ILMN_2219466	0.164879559	6.618041515	4.044640504	0.000181063	0.011207062	0.595523839
ILMN_1706051	-0.164812187	6.646428759	-3.407280997	0.001302379	0.035350425	-1.23338142
ILMN_1673673	0.16441195	7.43933552	4.492771099	4.16356E-05	0.004323582	1.972855084
ILMN_2217935	0.164017365	8.484240684	6.213782351	1.0124E-07	8.81259E-05	7.668868738
ILMN_1738955	-0.163501544	8.396592065	-5.784860585	4.69851E-07	0.000284185	6.212234602
ILMN_1682402	0.163494202	6.554807944	7.152685197	3.43839E-09	1.58696E-05	10.87873602
ILMN_1679093	-0.163369146	9.14661576	-4.280939092	8.40226E-05	0.006880673	1.313748584
ILMN_3200421	0.163289431	7.3358073	5.135903179	4.62778E-06	0.001173141	4.045080537
ILMN_1781400	-0.163199598	6.351035103	-3.341210803	0.001583034	0.040177859	-1.412497766
ILMN_2209578	-0.162928791	8.965182798	-6.483652944	3.83457E-08	5.35713E-05	8.590466661
ILMN_3238707	0.162412664	7.420619876	5.662761382	7.2534E-07	0.000373236	5.800396698
ILMN_2128967	-0.161538612	9.231967674	-3.882916224	0.000303037	0.015432062	0.115506859
ILMN_1769451	0.161289634	8.506642461	6.994714177	6.0755E-09	1.81181E-05	10.33885251
ILMN_2401878	0.161225706	8.209210494	4.839888051	1.28588E-05	0.002206412	3.079567074
ILMN_3242883	-0.161205999	8.583161327	-5.667177408	7.14057E-07	0.000372997	5.815264617
ILMN_1781386	-0.161096662	7.357152482	-3.757414509	0.000449054	0.019184124	-0.249936876

ILMN_1683450	0.160862649	9.802312178	5.193306531	3.78897E-06	0.001045028	4.234263393
ILMN_2134039	0.159433681	9.220499199	3.58571311	0.000761685	0.025703058	-0.739150192
ILMN_1658426	-0.158942288	6.566176358	-3.84896685	0.000337245	0.016315041	0.016022569
ILMN_1756541	-0.15859699	8.567317396	-5.037758648	6.50585E-06	0.001468809	3.723020664
ILMN_1772036	0.158129245	6.536795991	4.559152045	3.33308E-05	0.003769727	2.182082023
ILMN_1748352	-0.157393569	11.4101258	-3.797205911	0.000396658	0.017952992	-0.134765049
ILMN_1775405	-0.15729259	9.58175858	-4.543559767	3.51224E-05	0.003881022	2.132827361
ILMN_1778543	0.1572839	8.784347679	4.260866042	8.97444E-05	0.007096396	1.252009579
ILMN_2214678	-0.157210629	7.753443547	-3.245479044	0.00209305	0.048074616	-1.668117636
ILMN_2072622	0.157172039	9.120219576	4.198378494	0.000110089	0.007858011	1.060656016
ILMN_2357134	0.156517706	7.806796626	3.527336874	0.000909139	0.028592897	-0.90248659
ILMN_2401873	0.156332014	8.387227745	4.104447232	0.000149333	0.009825188	0.775485649
ILMN_1671404	0.156070665	9.585143281	3.870028606	0.000315609	0.015838348	0.077687462
ILMN_1715684	-0.155924291	9.932006939	-3.560712266	0.000821797	0.026753799	-0.809293661
ILMN_1655622	0.155651196	9.877113686	4.797424893	1.48681E-05	0.002349659	2.942589739
ILMN_1712888	-0.15557024	10.95199369	-3.353099236	0.001528629	0.03929978	-1.380428388
ILMN_1802205	-0.15556641	9.479562597	-3.819331257	0.000370122	0.017174075	-0.070443562
ILMN_3235404	0.155366503	7.050826139	5.3826492	1.95198E-06	0.00072428	4.862154273
ILMN_2121816	-0.15490423	6.828962555	-5.928019578	2.81907E-07	0.000201694	6.696900848
ILMN_1663866	-0.154716466	12.1605902	-3.517276977	0.000937157	0.02913385	-0.930475332
ILMN_1716026	-0.154543997	7.359713491	-5.030641181	6.66812E-06	0.001468809	3.699736121
ILMN_1678922	-0.154325442	8.855589712	-4.427099176	5.18282E-05	0.004991147	1.76708721
ILMN_2413898	0.153063577	8.123873246	4.091501176	0.000155708	0.010071639	0.736422113
ILMN_1669703	-0.153029137	8.590866258	-5.211281143	3.55859E-06	0.000997446	4.293619832
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ILMN_1665775	0.152172029	6.339835111	3.71560422	0.000511253	0.020687748	-0.37023796
ILMN_2413899	0.151897125	6.613339801	4.608783474	2.82029E-05	0.003399736	2.339299082
ILMN_1778087	-0.151745302	12.66377147	-4.56805032	3.23487E-05	0.003717517	2.210220487
ILMN_1708672	0.151090049	9.817585384	3.752234828	0.000456345	0.019327963	-0.264880414
ILMN_1696713	0.150861164	7.818523367	5.154864322	4.33222E-06	0.001140133	4.107505891
ILMN_1712305	-0.150682223	9.841135588	-3.330954656	0.001631439	0.040776416	-1.440106937
ILMN_1729225	-0.150497387	6.254295319	-4.302849011	7.81823E-05	0.006509608	1.381284225
ILMN_2229379	-0.150492034	6.133629685	-3.401294511	0.001325717	0.03556843	-1.249699635
ILMN_3247848	-0.150138198	6.894470153	-4.595576993	2.94866E-05	0.003505451	2.297400988
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ILMN_3250268	0.149967121	7.791705366	4.080780897	0.000161186	0.010290814	0.704119589
ILMN_1763907	0.149786741	10.09856606	5.881885369	3.32415E-07	0.000217901	6.540520595
ILMN_1774685	0.149768742	6.321316435	4.344314134	6.81919E-05	0.006106451	1.509510537
ILMN_1810942	-0.149702983	6.842908302	-3.492406357	0.001010006	0.030437914	-0.999467488
ILMN_1682165	-0.149563248	9.812250366	-4.017136362	0.000197761	0.012003526	0.513195915
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ILMN_2217809	0.147680466	9.865297437	3.739592192	0.000474623	0.019688161	-0.301307477
ILMN_1760620	0.147481626	7.638821681	5.459608585	1.48857E-06	0.000610953	5.1189126
ILMN_2380588	0.147387481	8.905956084	5.521962125	1.19443E-06	0.000512766	5.327534192
ILMN_1668629	-0.147154939	9.240650478	-3.584475911	0.000764559	0.02576088	-0.742628014
ILMN_1809866	0.14687859	8.35465094	4.989749339	7.68063E-06	0.00153062	3.566153912
ILMN_1664369	0.146223738	6.806387544	5.002120449	7.35931E-06	0.001514546	3.606531683
ILMN_1800412	-0.145983881	7.865449707	-7.84264695	2.88908E-10	2.4901E-06	13.22438735
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ILMN_1669479	0.145338647	7.352697752	3.886306668	0.000299811	0.015384685	0.125467185
ILMN_1759419	0.14526734	8.841508239	6.045601742	1.85086E-07	0.000141801	7.096199979
ILMN_1794914	-0.145136958	7.94905921	-4.301905309	7.84255E-05	0.006509608	1.378372198
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ILMN_1726839	0.144182595	10.39428272	4.063220354	0.000170565	0.010750255	0.651294455
ILMN_1725193	-0.143995836	10.16470107	-6.361666166	5.94903E-08	6.21511E-05	8.173573313
ILMN_1782403	0.14390058	7.305880123	4.576613226	3.14305E-05	0.003670097	2.237318585
ILMN_1685722	-0.143783374	11.69207743	-5.023255569	6.84072E-06	0.001482674	3.675584849
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ILMN_1810392	0.143717491	7.699964909	4.916121205	9.89905E-06	0.001858065	3.326490455
ILMN_1681249	-0.14360394	8.864681078	-5.669190274	7.08971E-07	0.000372997	5.82204226
ILMN_1744211	-0.143491817	6.010109406	-3.922640544	0.000267251	0.01437401	0.232489902
ILMN_1683127	0.143340695	9.525091049	3.33282504	0.001622508	0.040673606	-1.435075885
ILMN_1733519	0.143144613	7.128569209	5.319529648	2.43643E-06	0.000807676	4.652212275
ILMN_1796417	0.143135703	8.30282101	4.688060649	2.15713E-05	0.00287032	2.591758846
ILMN_1656482	-0.142672658	8.367445998	-4.647405892	2.47547E-05	0.003081022	2.462091812
ILMN_1719938	0.142397173	6.741638783	4.097019176	0.000152959	0.009987528	0.753064934
ILMN_2371055	-0.142360181	10.52178493	-4.913918351	9.97432E-06	0.001858065	3.319337564
ILMN_2166524	0.142350673	7.416897998	4.842202109	1.27573E-05	0.002206412	3.087043526
ILMN_1765109	-0.142287738	8.299027525	-3.850239636	0.000335898	0.016287503	0.019744024
ILMN_2224657	0.141857498	6.722117736	3.499253293	0.000989429	0.030107298	-0.980502767
ILMN_2124352	0.141683905	10.239231	4.270791896	8.68692E-05	0.006982696	1.282522502
ILMN_2287653	-0.140669072	6.690451728	-4.690413601	2.13999E-05	0.00287032	2.599276247
ILMN_1784847	0.140526138	7.592238302	5.15827421	4.28107E-06	0.001135341	4.118738996
ILMN_1773906	-0.140375608	11.75632911	-4.760215023	1.68801E-05	0.002505568	2.822901838
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ILMN_1678671	-0.139868972	7.812515614	-3.603262141	0.000722027	0.025017701	-0.68974463
ILMN_2134974	0.139836124	10.82826205	3.239887182	0.002127198	0.048535586	-1.68290259
ILMN_2348050	0.139666228	9.946905243	3.969140194	0.000230532	0.013127837	0.370199071
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ILMN_3233229	-0.138791968	7.717481802	-4.754656389	1.72027E-05	0.002529095	2.805050219
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ILMN_1779677	-0.138671702	7.56289937	-3.440629931	0.00117935	0.03321835	-1.142157945
ILMN_2404063	-0.138518499	9.331986562	-6.683808647	1.86398E-08	3.38223E-05	9.275154541
ILMN_1732967	-0.13842616	8.497603366	-5.035315602	6.56111E-06	0.001468809	3.71502721
ILMN_1770206	0.138378143	9.242453848	6.593716941	2.5792E-08	4.23431E-05	8.966905328
ILMN_1731349	-0.138277816	6.896796949	-3.364114179	0.001479808	0.038388161	-1.350652164
ILMN_2414533	-0.138187778	7.051802978	-5.199745711	3.70479E-06	0.001030052	4.255520742
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ILMN_2409220	0.137835765	9.171432101	3.376778425	0.001425506	0.03743013	-1.316342808
ILMN_2297626	0.137795828	7.303478771	3.2946442	0.001814327	0.043772377	-1.537425071
ILMN_1803018	-0.137765616	8.220185437	-4.377544234	6.10938E-05	0.00564684	1.612654173
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ILMN_2103397	-0.137635955	6.499243191	-5.00803853	7.21032E-06	0.001514546	3.625858424
ILMN_1723971	0.137598534	8.30686531	3.794033904	0.000400609	0.01801027	-0.14397009
ILMN_2079285	-0.137553426	9.107559641	-3.570242018	0.000798368	0.02631408	-0.782590146
ILMN_3237385	-0.137317691	8.080546148	-5.104814744	5.15596E-06	0.001243056	3.942869619
ILMN_1730824	0.137295269	7.513409392	4.136143547	0.000134774	0.009128652	0.871374536
ILMN_1742577	0.137250494	10.20435451	4.865067923	1.17959E-05	0.002118109	3.160984704
ILMN_2334760	-0.137084795	6.781816131	-3.496135651	0.000998749	0.030259518	-0.989140785
ILMN_1711005	0.136865906	7.497245812	3.885578433	0.000300501	0.015384685	0.123327421
ILMN_1797236	-0.136772365	6.569355035	-3.821004784	0.000368186	0.0171535	-0.065570266
ILMN_1667319	-0.136599128	6.22959011	-4.537408151	3.58548E-05	0.003911806	2.113413204
ILMN_1903914	0.136454991	7.610041268	3.330797365	0.001632192	0.040776416	-1.440529948
ILMN_2074044	0.136380516	7.061313224	4.131126604	0.000136983	0.009223903	0.85617378

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ILMN_1796013	0.135658981	7.230506607	5.029746634	6.6888E-06	0.001468809	3.696810342
ILMN_1716869	-0.135482093	6.670322582	-4.560758567	3.31513E-05	0.003769727	2.187160644
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ILMN_2082324	0.135069489	7.349484567	6.780015062	1.31761E-08	2.84323E-05	9.604367932
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ILMN_1766658	0.134501684	8.098890705	4.480061918	4.34418E-05	0.004445842	1.932937237
ILMN_2225718	0.134490032	7.499276731	3.923444925	0.00026657	0.01437401	0.23486504
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ILMN_1726104	0.134232299	8.323975493	4.414013642	5.41323E-05	0.005169713	1.726236489
ILMN_1718972	0.134151401	8.220587667	4.912736061	1.0015E-05	0.001858065	3.315498974
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ILMN_1795336	0.133249892	5.682204554	3.744820931	0.00046698	0.019597123	-0.286250138
ILMN_1724493	0.132792171	8.164774122	3.661775981	0.000603583	0.022767109	-0.524017755
ILMN_2135984	0.132714325	6.588567296	3.86503149	0.000320618	0.015996571	0.063040856
ILMN_1666599	0.132236703	7.265357528	4.581722066	3.08948E-05	0.003622886	2.253495347
ILMN_1832208	0.132046084	9.540906978	4.738400622	1.81813E-05	0.002633698	2.75288707
ILMN_1806809	-0.132009218	6.996510918	-5.149083599	4.42029E-06	0.00114582	4.088467328
ILMN_3274596	-0.131988436	10.58902558	-4.51368444	3.88219E-05	0.004079352	2.038640221
ILMN_2326509	0.131875834	8.811934897	4.058724461	0.00017305	0.010808082	0.637787827
ILMN_1671791	0.131707646	7.46911622	3.95720059	0.000239465	0.013337338	0.334761178
ILMN_1712400	0.131686898	8.876374823	3.973425412	0.000227404	0.01305066	0.382931149
ILMN_1655876	-0.131192124	7.946875505	-3.879162623	0.000306648	0.015569955	0.104484945
ILMN_1773567	-0.131106867	11.08087231	-3.300752785	0.001782258	0.043301717	-1.521100023
ILMN_3263702	0.131029339	6.359063635	4.364794148	6.37278E-05	0.005842125	1.573039062
ILMN_1709483	0.130637789	7.580602966	5.078288626	5.6533E-06	0.001334954	3.855799638
ILMN_1669323	0.130573864	7.255135811	3.906709518	0.000281084	0.014794866	0.18550117
ILMN_1788166	0.130487452	8.67503595	4.409127715	5.5018E-05	0.005225347	1.710996463
ILMN_1797332	0.130392724	8.237209661	3.75292074	0.000455373	0.019310517	-0.262902184
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ILMN_1655557	-0.129260021	8.609699708	-3.711134996	0.000518371	0.020853402	-0.383053414
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ILMN_1759023	-0.128823437	6.831852282	-3.739248696	0.000475129	0.019688161	-0.302296248
ILMN_2285375	0.128498482	8.553090667	3.588040675	0.000756308	0.025663857	-0.732605426
ILMN_2151056	-0.128474727	7.826808254	-4.754034688	1.72392E-05	0.002529095	2.803054078
ILMN_2148150	0.12804483	6.811128089	3.578094744	0.000779543	0.025916599	-0.760554739
ILMN_1665372	-0.127976771	6.998520963	-4.19294782	0.000112055	0.007948977	1.044086908
ILMN_1748476	0.127973869	10.84240498	5.149220128	4.41819E-06	0.00114582	4.088916909
ILMN_1657697	-0.12791406	9.85875281	-4.834977222	1.30768E-05	0.002206412	3.063704763
ILMN_1717674	-0.127613098	9.362654833	-3.968068231	0.00023132	0.013138388	0.36701518
ILMN_1796589	0.127567824	9.182447848	4.265462566	8.84016E-05	0.007038648	1.266135738
ILMN_1735052	-0.127511934	8.102006174	-3.661395562	0.000604289	0.022768834	-0.525100084
ILMN_1667893	-0.12724145	8.518278757	-3.321693723	0.001676349	0.041479641	-1.464991416
ILMN_2398107	0.126452904	7.265734244	5.561625004	1.0381E-06	0.000470915	5.460497944
ILMN_1777564	0.126416461	10.34517603	4.686447172	2.16896E-05	0.00287032	2.586604779
ILMN_1670353	0.126202046	9.008402824	3.895257577	0.000291451	0.015162742	0.151784555
ILMN_1799128	0.126115937	9.232999206	5.018451454	6.95534E-06	0.001482674	3.659880949

ILMN_1758915	0.126029809	8.708471252	4.80157781	1.46587E-05	0.002349659	2.955967933
ILMN_1713764	-0.125727973	6.910494514	-4.313105262	7.55861E-05	0.006438484	1.412950516
ILMN_2305112	0.125701018	6.280870741	6.979481827	6.41845E-09	1.81181E-05	10.28676377
ILMN_1815723	0.125541374	8.405450161	4.804234253	1.45263E-05	0.002349659	2.964527482
ILMN_1704793	-0.12527972	8.555960612	-4.29389654	8.05193E-05	0.00664111	1.353670504
ILMN_1703324	0.125235208	7.840373041	3.850881741	0.00033522	0.016287503	0.021621695
ILMN_2085525	0.125177817	7.593519229	4.701681307	2.05973E-05	0.002851861	2.635294307
ILMN_1776337	0.125156293	8.17941259	3.534364951	0.00089004	0.028141074	-0.8829051
ILMN_1811472	0.124958552	8.848214771	3.522106286	0.000923606	0.028842595	-0.917045062
ILMN_1700507	-0.124920839	9.003335212	-3.227332625	0.00220579	0.049866774	-1.716037293
ILMN_1789510	0.124792528	9.487128892	3.317420975	0.001697463	0.041801229	-1.476457813
ILMN_1669981	-0.124360908	6.921258888	-4.791456723	1.51742E-05	0.002377933	2.923370904
ILMN_1725366	0.12429741	6.5204632	3.678449817	0.000573397	0.022062985	-0.476516991
ILMN_1801939	0.123929796	9.923410899	3.578857424	0.000777737	0.025881529	-0.758413101
ILMN_3300198	-0.123622977	7.088250882	-3.591602155	0.00074815	0.025572898	-0.722586329
ILMN_1698209	0.12351993	8.592883328	4.820631604	1.37346E-05	0.002287507	3.017398721
ILMN_1659888	0.123509478	10.85665344	3.615336731	0.000695896	0.024558061	-0.655670781
ILMN_1808777	-0.123417893	8.520059408	-3.873139511	0.000312529	0.015706645	0.086810562
ILMN_1759595	-0.123113566	7.28027052	-8.158142375	9.38903E-11	1.07899E-06	14.28666816
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ILMN_2246510	-0.122975266	7.998612814	-3.63245248	0.000660401	0.023919797	-0.60725952
ILMN_2408645	0.122937063	8.748485732	5.837429442	3.89566E-07	0.000244194	6.389998245
ILMN_1810228	0.122751038	8.282954419	4.765739032	1.65653E-05	0.002483069	2.840649544
ILMN_2377185	-0.122673652	8.479247604	-3.4874295	0.001025218	0.030580526	-1.013238569
ILMN_1709085	0.122619109	6.344561293	4.248313781	9.35132E-05	0.007224229	1.213468482
ILMN_1791002	0.122602198	7.7818959	3.424376856	0.00123786	0.034129975	-1.186684466
ILMN_3245983	-0.12257454	7.95500833	-3.331418938	0.001629218	0.040776416	-1.438858255
ILMN_1748438	0.122512976	10.48075732	4.60551449	2.85155E-05	0.003425437	2.328923817
ILMN_2411139	0.122288548	6.792350952	4.10476712	0.000149179	0.009825188	0.776451629
ILMN_1787815	0.122247788	7.582959281	3.751743689	0.000457043	0.019333742	-0.266296782
ILMN_2324056	0.122214788	9.370994725	3.715225012	0.000511853	0.020687757	-0.371325666
ILMN_1651347	-0.122189357	9.178162101	-5.401891838	1.82422E-06	0.00070665	4.92627448
ILMN_2143795	0.12217211	10.18028915	3.955018571	0.000241134	0.01339979	0.328290575
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ILMN_1768662	0.121939828	7.89357845	4.270013961	8.70913E-05	0.006982696	1.280129918
ILMN_1672022	-0.121822376	6.385237268	-3.410086869	0.001291575	0.035144692	-1.225727023
ILMN_3240370	0.121802105	7.789923862	3.650199462	0.000625431	0.023310659	-0.556925692
ILMN_2111187	0.121652782	8.370280836	3.875261395	0.000310445	0.01567043	0.09303544
ILMN_1794132	0.121519239	11.12478003	3.962678826	0.000235326	0.01326011	0.351014409
ILMN_1710752	0.121472439	8.511522427	4.511957613	3.90471E-05	0.004079352	2.033203661
ILMN_1712803	0.121449897	9.548288256	5.181402868	3.94957E-06	0.00107217	4.194985244
ILMN_2090782	0.121388893	8.613407829	3.337135894	0.0016021	0.040464478	-1.423473615
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ILMN_3251737	-0.121253818	8.954101382	-3.488912726	0.001020662	0.030580526	-1.00913567
ILMN_1798288	-0.12076731	7.041443625	-5.042707507	6.39532E-06	0.001468809	3.739216503
ILMN_1801934	-0.120607179	7.979873922	-3.25540782	0.002033691	0.04726824	-1.64182559
ILMN_1689059	-0.120469941	7.465566472	-3.779196159	0.0004196	0.018404739	-0.186973589
ILMN_1770665	-0.120337567	6.553792707	-5.040025816	6.45499E-06	0.001468809	3.730439697
ILMN_2080611	0.120276339	8.138754828	3.803647067	0.00038875	0.017715823	-0.116060355
ILMN_1764729	-0.120270755	8.524975381	-4.24911469	9.32682E-05	0.007224229	1.215926104
ILMN_1740185	-0.120245918	8.25080104	-3.508102417	0.000963427	0.029550814	-0.955959714
ILMN_1770692	0.120115128	9.212045189	4.262789356	8.91802E-05	0.007073475	1.25791953
ILMN_1791568	0.119972104	7.620487626	4.241563774	9.5603E-05	0.007251799	1.192764099
ILMN_2243308	-0.119920158	8.155540478	-4.769386942	1.63606E-05	0.0024739	2.852373625

ILMN_1779353	0.119768202	8.683326861	3.434112218	0.00120249	0.033496112	-1.160029059
ILMN_1717809	-0.119720567	6.697764307	-4.339780157	6.92206E-05	0.006166537	1.495463675
ILMN_1684108	-0.119694623	9.051949167	-3.249860441	0.002066657	0.047754736	-1.65652175
ILMN_2235137	0.119675823	8.759065116	3.483267799	0.001038106	0.030826657	-1.024745106
ILMN_1790577	0.119656662	8.636032548	3.252130776	0.002053105	0.047505258	-1.650509097
ILMN_1805271	-0.119647686	8.035720829	-4.867950651	1.16799E-05	0.002108254	3.170314829
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ILMN_1838313	0.119201553	7.675533308	3.631865521	0.000661589	0.023919797	-0.608921868
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ILMN_1732772	0.119079508	8.22064226	4.999578192	7.42424E-06	0.001514546	3.598231559
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ILMN_1654385	0.118742083	6.037031665	4.482788948	4.30479E-05	0.004430207	1.941498615
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ILMN_1754149	-0.11831732	8.468934902	-3.814940332	0.000375249	0.017295556	-0.083224489
ILMN_1673721	0.118145598	7.484523037	3.885195769	0.000300864	0.015384685	0.122203126
ILMN_2077094	0.118050009	8.705852975	3.461758634	0.001107214	0.031916643	-1.084083959
ILMN_1768004	-0.118013334	8.51597427	-5.792003072	4.58046E-07	0.000281993	6.236372127
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ILMN_1712413	0.117647405	8.579679455	3.974108613	0.00022691	0.01305066	0.38496169
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ILMN_1656463	0.117398385	8.129104427	4.800408241	1.47174E-05	0.002349659	2.952199882
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ILMN_1733094	0.116959599	7.830280234	3.425212742	0.001234785	0.034083618	-1.184397613
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ILMN_1787879	0.116224441	8.903314854	4.144580202	0.000131138	0.00895267	0.89695625
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ILMN_2311537	0.115407475	11.27813446	3.584223883	0.000765145	0.02576088	-0.743336393
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ILMN_1786379	0.115382687	6.061254446	3.973287373	0.000227505	0.01305066	0.382520906
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ILMN_2227968	0.114521511	7.650799301	5.05844093	6.05607E-06	0.00140127	3.790737853
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ILMN_1743763	-0.11365086	8.513738595	-3.884827437	0.000301214	0.015384685	0.121120996
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ILMN_1731070	0.113383872	8.203436146	4.091640639	0.000155638	0.010071639	0.736842614
ILMN_3273047	0.113000352	6.289676893	3.73705839	0.00047837	0.019732794	-0.308599989
ILMN_2398926	0.112973331	8.502134182	5.133473613	4.66706E-06	0.001174463	4.037086398
ILMN_3282768	0.112920632	8.488820036	3.229774988	0.002190289	0.049613941	-1.709597755
ILMN_1737728	0.112816606	8.578393675	3.641546968	0.000642253	0.023681622	-0.581483191
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ILMN_1795839	-0.111435682	7.585746898	-3.883718248	0.000302271	0.015415813	0.117862608
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ILMN_1719870	0.111309716	8.180480194	3.894628924	0.000292031	0.015162742	0.149935171
ILMN_2070349	0.111135329	6.622780832	3.935294789	0.000256734	0.013982871	0.269883651
ILMN_1689800	0.111079357	8.066725921	4.447193756	4.84752E-05	0.004788625	1.829916719
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ILMN_1671933	0.110868409	10.03989744	3.555969899	0.0008337	0.027039163	-0.822566863
ILMN_1721868	0.110856354	9.594540838	3.492662579	0.001009229	0.030437914	-0.998758199
ILMN_1757697	0.110488038	7.179199199	4.037381014	0.000185333	0.011430293	0.573767223
ILMN_1668996	0.110447744	10.9740981	4.356257228	6.55529E-05	0.005933454	1.546542117
ILMN_1781198	-0.110344572	7.040246259	-4.661361281	2.36132E-05	0.003004023	2.506554882
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ILMN_1661589	-0.110142689	9.039459339	-3.562561506	0.0008172	0.026679717	-0.804115112
ILMN_1769091	0.110130474	10.25774921	3.891653206	0.00029479	0.015237156	0.14118324
ILMN_1670931	0.109982408	8.344569045	4.645968795	2.48753E-05	0.003084892	2.457515921
ILMN_1757415	0.109798743	7.754264264	4.346003319	6.78124E-05	0.006104183	1.514745478
ILMN_2390609	-0.1096809	7.612098975	-3.723432303	0.000499011	0.020263719	-0.347770486
ILMN_1882000	0.109602426	7.486804543	4.826208903	1.34751E-05	0.002255179	3.035396058
ILMN_1805481	0.109382783	8.210687973	3.24891342	0.002072335	0.047830793	-1.659029
ILMN_1799667	0.109126434	7.599247815	4.779955478	1.57815E-05	0.002407453	2.886357763
ILMN_1668498	0.109033111	8.076128406	4.450890769	4.78818E-05	0.004771017	1.841488936
ILMN_1686097	0.108979349	10.63696681	3.782293407	0.000415566	0.018351643	-0.1780045

ILMN_1745813	-0.108717332	9.21089245	-3.561996592	0.000818602	0.026700197	-0.805697245
ILMN_2409298	0.108432472	9.038152177	3.586093906	0.000760803	0.025703058	-0.73807962
ILMN_1789123	0.108426667	9.000204231	4.189342607	0.000113379	0.008026385	1.033092785
ILMN_1798690	-0.108315309	6.199460696	-3.478075568	0.001054402	0.03106853	-1.039089417
ILMN_1739083	-0.10824969	7.948387784	-4.112318676	0.000145581	0.009652032	0.799265869
ILMN_1788211	-0.108230377	7.375675481	-3.310614511	0.001731617	0.042400013	-1.494704572
ILMN_1798459	0.10804744	6.719282624	3.443015763	0.001170986	0.033168616	-1.135611035
ILMN_1656057	-0.107983713	10.21880809	-3.476355443	0.001059854	0.031123962	-1.043838699
ILMN_1753502	-0.107965539	5.861392599	-5.357683691	2.13101E-06	0.000765299	4.779045051
ILMN_2263144	0.107941111	7.580538206	3.761821749	0.000442938	0.018993463	-0.237213014
ILMN_1743620	0.107590924	6.116471599	4.715564207	1.9649E-05	0.00278773	2.679715194
ILMN_1809495	0.107530362	12.22347304	4.222304395	0.000101819	0.007390097	1.133771588
ILMN_2072391	0.107484488	8.267507843	3.789414697	0.000406431	0.018103496	-0.157367445
ILMN_2326512	0.107427063	8.422317328	3.668960444	0.000590394	0.022452432	-0.503565369
ILMN_2048507	0.107324466	6.934676879	3.79189636	0.000403293	0.018033631	-0.150170825
ILMN_1734316	0.107294264	7.968123315	4.55674145	3.36018E-05	0.003769727	2.174462838
ILMN_2219712	0.107291688	10.6231244	4.379146596	6.07704E-05	0.005632046	1.61763627
ILMN_2155172	0.107286873	9.350677952	3.585604782	0.000761937	0.025703058	-0.739454735
ILMN_2214713	0.107107885	6.939689865	5.307673797	2.53986E-06	0.000820235	4.612846176
ILMN_1683096	0.106992877	7.12992344	4.890468319	1.08113E-05	0.001982616	3.243257519
ILMN_1729987	-0.106984707	8.692391089	-5.241739825	3.19936E-06	0.000934754	4.394326346
ILMN_2401436	0.106948257	6.733041756	4.685923618	2.17282E-05	0.00287032	2.584932485
ILMN_1714710	-0.106891542	7.440476788	-4.585994124	3.04537E-05	0.003595624	2.267027858
ILMN_1672094	-0.106794829	6.75480312	-3.357602659	0.001508487	0.038902714	-1.368261796
ILMN_1792986	0.106733964	7.065097729	4.642650536	2.51559E-05	0.003108508	2.446952215
ILMN_2405521	0.106707457	9.70985749	4.181024432	0.000116492	0.008229868	1.007743142
ILMN_1761131	0.106697847	9.413357388	4.454721982	4.72743E-05	0.004737875	1.853485397
ILMN_1728262	0.106644301	5.633907349	3.463121336	0.001102709	0.031813375	-1.080331118
ILMN_1786125	0.106629104	9.58544411	3.53261434	0.000894761	0.028223047	-0.887784759
ILMN_1664912	-0.10659609	6.625301862	-3.432352287	0.001208812	0.033515316	-1.164851146
ILMN_1751708	-0.106485841	12.29033155	-3.597291252	0.000735294	0.025248984	-0.706569981
ILMN_2048478	-0.106445995	6.143759477	-4.049927436	0.000178014	0.011038134	0.61138077
ILMN_2344971	0.106370364	7.690905689	4.399733744	5.67608E-05	0.005346678	1.681715027
ILMN_1705301	0.106352558	7.378086814	3.759484864	0.000446171	0.01908461	-0.243960699
ILMN_2347592	0.106340975	7.731767718	3.390091556	0.001370465	0.036422403	-1.280189875
ILMN_3244521	-0.106218996	8.874954366	-3.371319231	0.001448678	0.037865528	-1.331142355
ILMN_1719543	-0.10618849	6.558594015	-3.811150591	0.000379728	0.017435104	-0.094249199
ILMN_1823231	-0.106154613	6.043474121	-3.335647945	0.001609117	0.040600074	-1.427479353
ILMN_1775939	0.106129895	9.10934211	3.597827939	0.000734092	0.025232845	-0.705058307
ILMN_3243248	0.106090879	6.648626861	4.570820577	3.20488E-05	0.003707769	2.21898506
ILMN_2077550	0.106059401	9.130640182	3.785144042	0.000411885	0.01828095	-0.169746051
ILMN_1670542	0.105890642	9.474264184	3.469227443	0.001082735	0.031474169	-1.063504183
ILMN_1773470	-0.1058481	7.148702109	-3.977934931	0.000224158	0.013032152	0.39633713
ILMN_1705907	0.10582135	8.640686952	4.665054611	2.33199E-05	0.00298876	2.518330446
ILMN_1701374	0.105685252	8.063288812	4.666492055	2.32067E-05	0.002985349	2.522914431
ILMN_1700257	0.105617109	7.44588105	4.305882683	7.74055E-05	0.006493021	1.39064727
ILMN_2048633	0.105414215	6.738295177	3.549354414	0.000850579	0.027457456	-0.84106541
ILMN_2063114	0.105409827	7.510759563	3.475327703	0.001063124	0.031166904	-1.046675628
ILMN_1716279	0.105328891	8.575243615	3.434628518	0.001200641	0.033496112	-1.158614147
ILMN_1787415	-0.105314288	7.716048692	-4.014179095	0.000199642	0.012032997	0.504360473
ILMN_1814122	0.105295986	8.830414732	4.381441546	6.03101E-05	0.005614129	1.624773129
ILMN_2404407	-0.105147323	6.015306341	-4.018407689	0.000196957	0.011975832	0.516995258
ILMN_2202948	0.105045018	8.434508364	3.940033341	0.000252899	0.013839621	0.283902084
ILMN_1799604	0.105020783	10.66304612	5.214172146	3.52285E-06	0.000995522	4.30317175

ILMN_3256325	-0.104841766	7.767774337	-4.249892624	9.30308E-05	0.007224229	1.218313428
ILMN_1809488	0.104793375	10.62056369	4.685902594	2.17297E-05	0.00287032	2.584865333
ILMN_1700546	0.104695806	7.170142048	3.633674665	0.000657934	0.023919797	-0.603797635
ILMN_1698996	0.104681151	6.577959557	4.059203893	0.000172783	0.010808082	0.639227797
ILMN_1716524	-0.104623689	10.43269012	-4.912416184	1.0026E-05	0.001858065	3.31446047
ILMN_1765258	-0.104618718	9.497473414	-4.14715399	0.000130047	0.008929994	0.904765403
ILMN_1653134	-0.104513062	7.862712129	-3.75557476	0.000451631	0.019270331	-0.255245896
ILMN_1761069	0.104377687	7.418121548	3.922833775	0.000267087	0.01437401	0.233060444
ILMN_1706817	-0.104207745	8.933567806	-4.152966325	0.000127617	0.008817074	0.922409038
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ILMN_1671895	-0.103872918	6.998514485	-3.83393585	0.000353552	0.016789339	-0.027876837
ILMN_1728083	-0.103775293	7.764652866	-3.961572813	0.000236156	0.01326011	0.347732092
ILMN_1703477	-0.10356919	8.719924018	-4.533611788	3.63143E-05	0.003924673	2.101437281
ILMN_1773760	0.103461457	10.87738174	3.501903363	0.000981573	0.029894623	-0.973156653
ILMN_1704253	-0.103438779	7.390643803	-4.17739727	0.000117875	0.008293606	0.996696677
ILMN_1690802	0.10328138	11.86293949	4.060457733	0.000172088	0.010801677	0.642994087
ILMN_2306189	-0.103225095	8.775216014	-4.307953936	7.68794E-05	0.006480173	1.397041599
ILMN_1803312	0.103150136	10.1723036	4.228339368	9.98298E-05	0.007338448	1.152243918
ILMN_1744308	0.103131928	8.517396068	5.650338046	7.58042E-07	0.000378757	5.758581223
ILMN_1777853	-0.102989695	6.925166684	-3.616424857	0.000693586	0.024558061	-0.652596942
ILMN_1679177	0.102748392	7.841529653	3.612938143	0.000701014	0.024636243	-0.662444664
ILMN_1815184	0.102649319	9.900279107	3.36961523	0.001455984	0.038027652	-1.335758771
ILMN_1750518	0.102645677	9.345884188	3.671996176	0.000584905	0.022356075	-0.494916626
ILMN_1654493	0.102595153	7.359277742	4.133931735	0.000135744	0.009176294	0.864671927
ILMN_1655117	0.102468039	7.80741635	3.655304988	0.000615704	0.023047779	-0.542419742
ILMN_1671257	0.10242845	10.84110977	4.684228012	2.18534E-05	0.002875057	2.579516987
ILMN_3245893	0.102396214	6.436412395	6.388559721	5.40026E-08	6.00579E-05	8.265445551
ILMN_3251423	0.102381138	6.070936542	5.404967091	1.80458E-06	0.00070665	4.936526765
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ILMN_1785413	0.102281946	6.579484474	4.312501463	7.57366E-05	0.006438484	1.411085365
ILMN_2350574	-0.102227862	7.01952651	-3.738533764	0.000476184	0.019708206	-0.304354059
ILMN_1678095	0.102179595	6.227519664	3.816296574	0.000373658	0.017268413	-0.079277631
ILMN_1798256	0.102102179	10.07763073	3.267272767	0.001964842	0.04627043	-1.610339165
ILMN_1815885	-0.101989378	6.751585841	-4.434541414	5.05608E-05	0.004896446	1.790343022
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ILMN_1682095	-0.101710121	7.826886844	-4.729445447	1.87436E-05	0.002692517	2.72417801
ILMN_1688526	0.101658469	11.46092375	4.719370495	1.93965E-05	0.002763285	2.691902383
ILMN_1788416	0.101648297	10.07321808	3.796696573	0.00039729	0.017952992	-0.136243405
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ILMN_1690371	0.101476765	9.478240738	3.997696529	0.000210451	0.012381439	0.455174651
ILMN_1748923	0.101455685	7.985495475	3.484667982	0.001033753	0.03075036	-1.020874704
ILMN_1801118	0.10129261	9.449758515	3.240503941	0.002123406	0.048513279	-1.681272675
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ILMN_1682226	-0.101024286	6.776447359	-4.448001022	4.8345E-05	0.004788625	1.832443247
ILMN_1691578	0.10098201	8.624275051	3.502073176	0.000981072	0.029894623	-0.97268581
ILMN_1661293	-0.100978705	6.006452296	-3.808336773	0.000383087	0.0175396	-0.102431068
ILMN_1777895	-0.100955108	7.506302808	-4.707928858	2.01651E-05	0.002834636	2.65527862
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ILMN_2205999	0.100567506	6.563454149	3.924201188	0.000265932	0.01437401	0.237098327
ILMN_1797307	0.100500719	7.472940786	3.84880911	0.000337412	0.016315041	0.015561403
ILMN_2278636	-0.100496028	8.45339744	-4.63963174	2.54138E-05	0.003118034	2.437344314
ILMN_1723625	0.100413602	8.226136828	3.366764234	0.001468285	0.038239954	-1.343479359

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ILMN_2051373	0.100313749	9.100051492	3.47603434	0.001060875	0.031127423	-1.04472511
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ILMN_1743911	0.100016016	10.10491784	3.523956448	0.000918463	0.028760166	-0.911896899
ILMN_1712122	0.099963232	5.943253436	5.641958129	7.80922E-07	0.000384615	5.730385119
ILMN_1754234	0.099931879	8.750926766	3.968837865	0.000230754	0.013127837	0.369301066
ILMN_1721741	-0.099880409	8.567651102	-3.635809623	0.000653646	0.023868572	-0.597748698
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ILMN_2226304	-0.099562289	7.526338806	-3.381135084	0.001407267	0.037092467	-1.304521571
ILMN_1656670	0.099523586	6.613323418	4.3259752	7.24468E-05	0.006307263	1.452733281
ILMN_1659364	0.099514478	9.22749337	4.065615932	0.000169255	0.010687232	0.658494258
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ILMN_3196019	0.099108976	7.91190747	3.5235516	0.000919586	0.028769196	-0.913023545
ILMN_1674302	0.09899494	8.246590724	3.666251651	0.000595334	0.022553434	-0.511279281
ILMN_1672504	-0.098872082	9.839357917	-3.416724878	0.001266353	0.034677354	-1.207603278
ILMN_1765858	0.098839649	11.04109625	4.465214308	4.56489E-05	0.004628802	1.886361105
ILMN_1705201	-0.098808357	6.14596149	-3.526426249	0.000911642	0.028624549	-0.905022078
ILMN_1805104	-0.0986951	5.880777654	-3.545012021	0.000861836	0.027588339	-0.853196881
ILMN_1733956	0.098658309	9.365748601	3.550935371	0.000846516	0.02737756	-0.83664649
ILMN_1741736	0.098593406	8.045154438	4.992302847	7.61319E-06	0.001526003	3.57448572
ILMN_1780937	0.098485109	7.910152734	4.655286052	2.41037E-05	0.003034838	2.487192575
ILMN_1753482	0.098298673	6.521849759	3.730084351	0.000488829	0.019992792	-0.328657877
ILMN_2376667	-0.098296982	7.415980103	-4.784301133	1.55493E-05	0.002403936	2.900339251
ILMN_2041046	0.098246719	10.23293506	4.331497728	7.1139E-05	0.006248444	1.469820027
ILMN_1712320	-0.098245882	8.823535485	-4.569535801	3.21876E-05	0.003711367	2.214920012
ILMN_1657797	0.098199715	8.498497899	3.54963681	0.000849852	0.027457456	-0.840276171
ILMN_1655177	-0.098178945	8.835962518	-3.801257836	0.000391665	0.017767168	-0.123000511
ILMN_2320906	0.098165167	8.239527803	3.781758081	0.00041626	0.018351643	-0.179554993
ILMN_2336781	0.098162947	9.712383469	3.624481855	0.00067671	0.024327676	-0.629820358
ILMN_1778059	0.098097957	6.052982091	4.522755737	3.76601E-05	0.004007313	2.067212955
ILMN_1685005	-0.098089677	9.236945181	-5.082754721	5.56638E-06	0.001323493	3.87045003
ILMN_1721713	0.09806712	8.74185298	3.77137613	0.000429954	0.018728635	-0.209601333
ILMN_1792078	-0.097898063	9.804828113	-4.491198712	4.1855E-05	0.004333315	1.967913945
ILMN_2371700	0.097897091	7.614581369	4.014896193	0.000199185	0.012026426	0.506502653
ILMN_3306997	0.097870416	8.643978954	4.267601117	8.77836E-05	0.007005617	1.272710311
ILMN_2214355	0.097869593	6.543851181	3.778686537	0.000420267	0.01841059	-0.188448986
ILMN_1798705	0.097800414	8.716211037	3.975846425	0.000225656	0.01305066	0.390127431
ILMN_1713406	-0.097777052	8.336282087	-5.218665346	3.468E-06	0.000988122	4.318020158
ILMN_2210713	0.097758339	6.990188826	5.14190432	4.53214E-06	0.001166046	4.064830989
ILMN_1728934	0.097548201	10.36563148	3.743648959	0.000468683	0.019597123	-0.289626097
ILMN_2377862	0.097461321	7.906293065	3.721934397	0.000501331	0.020334002	-0.352071662
ILMN_1682336	0.097405863	7.018466589	3.631372527	0.000662589	0.023919797	-0.610317977
ILMN_3231638	-0.097282649	7.788437121	-3.246059237	0.002089537	0.048025917	-1.666582663
ILMN_1675130	0.097201396	7.106587477	3.365542387	0.001473587	0.038313275	-1.346786921
ILMN_1708787	-0.097157534	6.527560153	-4.122176179	0.000141012	0.009403324	0.829076734
ILMN_1701269	0.097151578	10.91990176	3.826683664	0.000361689	0.016988542	-0.049024942

ILMN_1741219	-0.097142671	7.243370215	-3.747002852	0.000463826	0.019524851	-0.279963395
ILMN_2327994	0.096958564	7.877694774	3.396450785	0.001344891	0.035998816	-1.262890008
ILMN_1716445	0.096808043	9.710094884	3.753547617	0.000454487	0.019296654	-0.26109404
ILMN_1667977	0.096763496	7.87598747	5.017968723	6.96697E-06	0.001482674	3.658303228
ILMN_1694514	-0.096734481	6.798093916	-3.708686193	0.000522312	0.020938623	-0.390071707
ILMN_2367215	0.096733243	8.953831256	3.391490293	0.0013648	0.03630622	-1.27638641
ILMN_1710064	-0.096412025	6.052733143	-3.464019407	0.001099749	0.031813375	-1.07785737
ILMN_1915076	0.096395757	6.374949152	3.247043477	0.00208359	0.047921176	-1.66397833
ILMN_2061768	0.096374248	5.620462668	4.723059332	1.91549E-05	0.002740187	2.703716891
ILMN_1797522	-0.096373323	9.338908942	-3.839006399	0.000347968	0.016592727	-0.013077994
ILMN_3282436	-0.096372474	9.636964824	-3.459634436	0.001114272	0.032039724	-1.089932172
ILMN_1658685	-0.096330707	5.72376934	-3.635517162	0.000654231	0.023868572	-0.598577441
ILMN_1788462	0.096224239	9.767439541	3.85065055	0.000335464	0.016287503	0.020945618
ILMN_1685774	0.0961959	11.2321337	3.463242668	0.001102308	0.031813375	-1.07999693
ILMN_1743711	0.096185424	8.799743019	3.906867016	0.000280943	0.014794866	0.185965228
ILMN_1685679	-0.096167768	7.037923805	-4.995560188	7.52802E-06	0.001524397	3.585115969
ILMN_1764970	-0.096122811	9.031091731	-4.138562095	0.000133722	0.009075194	0.878705569
ILMN_1746561	-0.095957567	9.35507481	-4.879705695	1.12183E-05	0.002046353	3.208379719
ILMN_1797318	0.095936934	7.588091256	3.631907673	0.000661504	0.023919797	-0.608802493
ILMN_1671906	0.095869271	8.23171575	3.530465944	0.000900588	0.028380862	-0.893771267
ILMN_1786718	0.095788841	10.08506444	3.519824759	0.000929984	0.029015515	-0.923391326
ILMN_2045729	0.095751769	9.02096458	3.668218007	0.000591744	0.022468038	-0.505679947
ILMN_1701289	0.095592709	8.383383115	3.254161666	0.002041053	0.047307602	-1.645128306
ILMN_1743241	-0.095559383	7.429252584	-3.546168846	0.000858823	0.027517453	-0.849965875
ILMN_1780667	0.09554555	8.102366742	3.376151516	0.001428149	0.037442953	-1.318043071
ILMN_1708059	0.09545611	6.612322187	3.952913396	0.000242754	0.013412175	0.322049566
ILMN_2129273	0.095342249	6.794773694	3.457072256	0.001122842	0.032178793	-1.096983339
ILMN_1772124	-0.095251892	7.905462812	-3.854051083	0.000331895	0.016238578	0.030892054
ILMN_1815190	0.09525165	7.766688732	4.23003086	9.92792E-05	0.007326296	1.157423524
ILMN_1691418	-0.095248988	6.015237344	-3.741684374	0.00047155	0.019645076	-0.29528395
ILMN_1787923	-0.095155903	7.990188311	-3.792904316	0.000402025	0.018023696	-0.147247112
ILMN_1657983	-0.095121782	8.205448842	-4.575859098	3.15103E-05	0.003670097	2.234931288
ILMN_1698715	0.095059013	6.978505793	5.905653966	3.05361E-07	0.000206424	6.621066928
ILMN_1802646	-0.095001082	5.62997933	-3.555037436	0.000836059	0.027090208	-0.825175478
ILMN_1810418	0.094943596	6.766561836	4.270889691	8.68413E-05	0.006982696	1.28282329
ILMN_3276822	0.0949146	6.700760752	3.91658928	0.000272426	0.014527246	0.214630043
ILMN_2049766	0.094884875	7.162144079	3.496235336	0.000998449	0.030259518	-0.98886466
ILMN_1734830	-0.094855911	6.273340911	-3.679682891	0.000571223	0.022053177	-0.47299938
ILMN_1797005	-0.094730986	9.381350127	-3.893141257	0.000293407	0.015188451	0.145559335
ILMN_1718271	-0.094653927	8.50807691	-3.508474905	0.000962347	0.029543969	-0.954925813
ILMN_1695362	-0.094637103	7.648269942	-3.580781565	0.0007732	0.025830261	-0.753008858
ILMN_1737195	0.094551571	9.0586709	3.886178255	0.000299932	0.015384685	0.125089855
ILMN_2403965	0.094487647	7.315687917	3.688651258	0.000555648	0.021645781	-0.447395341
ILMN_1786108	0.094483756	6.541233892	3.626279089	0.000672999	0.024223018	-0.624735754
ILMN_1701882	0.094480434	7.893749686	3.905601357	0.000282071	0.014801647	0.182236303
ILMN_1747935	-0.094457507	8.156604102	-4.232971595	9.8329E-05	0.007309774	1.166430744
ILMN_3187852	-0.094421077	9.630296933	-4.149410026	0.000129099	0.008901603	0.911612336
ILMN_1743204	-0.094355993	6.696148495	-4.24123408	9.57063E-05	0.007251799	1.191753206
ILMN_1717173	0.094230148	9.055677698	3.44295969	0.001171181	0.033168616	-1.135764934
ILMN_1751773	0.094187445	7.174381759	4.092573154	0.00015517	0.010071639	0.739654459
ILMN_1710150	0.09413793	7.049956004	4.745962788	1.77195E-05	0.002588545	2.77714542
ILMN_1775759	0.094075394	7.746171966	3.371685722	0.001447112	0.037853276	-1.330149284
ILMN_1695946	-0.093987687	8.595334158	-3.441389297	0.001176681	0.033170292	-1.140074483
ILMN_1781281	0.09398673	6.702514257	4.226582131	0.000100405	0.007349386	1.146863985

ILMN_2399310	0.093944797	7.05055913	3.272324671	0.001936202	0.045720888	-1.596910599
ILMN_1699737	0.093791042	8.908790451	4.236222444	9.72888E-05	0.007309774	1.176391119
ILMN_1771738	0.093527262	7.554359386	5.304366494	2.56948E-06	0.000820235	4.601868533
ILMN_2413644	0.093412964	5.945822603	3.306160687	0.001754317	0.042713153	-1.506631617
ILMN_1765523	-0.093308047	7.1158952	-3.601582641	0.000725735	0.025095744	-0.694478909
ILMN_2392546	0.093287363	10.91638617	3.350509303	0.001540328	0.03948278	-1.387420839
ILMN_3307930	0.093205049	12.34740456	3.910949243	0.000277336	0.014709914	0.197996666
ILMN_1790625	0.093125247	9.523980712	3.954718685	0.000241364	0.01339979	0.327401431
ILMN_1678300	0.093042325	9.174469051	3.433833563	0.001203489	0.033496112	-1.160792653
ILMN_2097185	-0.093015141	7.90336422	-3.509725198	0.00095873	0.029485439	-0.951454945
ILMN_3305871	0.092911538	6.858198686	3.846030619	0.000340372	0.016412138	0.007439905
ILMN_1745217	-0.092843025	8.509882894	-4.255994427	9.11892E-05	0.007161366	1.237045461
ILMN_1759175	0.092758674	6.883298574	4.177675359	0.000117769	0.008293606	0.997543436
ILMN_2100458	0.092742651	6.719360877	3.785811469	0.000411028	0.01828095	-0.167811992
ILMN_1670821	0.092721981	6.17475528	4.235259158	9.75959E-05	0.007309774	1.173439315
ILMN_3206242	0.092662631	7.38224721	3.328578588	0.001642852	0.040976769	-1.44649566
ILMN_1663390	0.092612458	10.32550312	3.286512675	0.001857863	0.044480336	-1.55912671
ILMN_1746948	-0.09255967	7.200817563	-3.464258254	0.001098963	0.031813375	-1.077199397
ILMN_1755749	0.092555118	10.965638	4.331073632	7.12386E-05	0.006248444	1.468507533
ILMN_1722089	0.092493309	7.619406197	3.99862311	0.000209829	0.012374946	0.457936999
ILMN_1746699	0.092477373	7.76776525	3.491012588	0.001014245	0.030512298	-1.003325259
ILMN_1675038	-0.092396465	8.060327569	-4.060037185	0.000172321	0.010801677	0.64173078
ILMN_3185161	0.092346418	6.903837656	4.781019095	1.57244E-05	0.002407453	2.889779382
ILMN_2347917	0.092291927	8.305680315	4.085839968	0.000158578	0.010161946	0.719358577
ILMN_1739103	0.09215513	6.763199341	3.853819884	0.000332136	0.016238578	0.030215659
ILMN_3305304	0.092123228	9.246338618	4.243859487	9.48872E-05	0.007244749	1.199804103
ILMN_1703946	0.092018041	8.504248876	3.253800691	0.00204319	0.047307602	-1.646084859
ILMN_1745904	-0.091969083	10.72793863	-3.351118687	0.001537567	0.039441351	-1.385775891
ILMN_1651433	0.091867166	8.086261462	3.607911724	0.000711856	0.024854261	-0.67663149
ILMN_1669424	0.091806685	11.80404463	3.567757382	0.000804414	0.026488041	-0.789556392
ILMN_1898692	0.091592105	6.279318107	4.844599041	1.2653E-05	0.002206412	3.094789
ILMN_1723124	-0.091535932	6.99305156	-3.842002886	0.000344708	0.01650513	-0.004327614
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ILMN_1754178	0.09148847	10.43994563	3.816932207	0.000372915	0.017257196	-0.077427591
ILMN_1685258	0.09146999	10.63855008	4.098622611	0.000152169	0.00996623	0.757903068
ILMN_2384536	0.091352614	8.082153293	3.705596628	0.000527324	0.020993104	-0.398922768
ILMN_1658695	0.091322993	8.046686856	3.428204984	0.001223835	0.033808453	-1.176208535
ILMN_1815012	-0.091320754	8.664126614	-3.771160096	0.000430244	0.018728635	-0.210226081
ILMN_2048636	0.09127943	7.645361708	3.790072237	0.000405597	0.018089735	-0.155460881
ILMN_2400874	0.091207885	9.201289233	3.748325981	0.000461923	0.019468525	-0.276150104
ILMN_1677906	0.091189518	9.433026339	4.524611098	3.74267E-05	0.003994805	2.07305978
ILMN_1733937	0.09099438	7.646217725	3.362134865	0.00148847	0.038553688	-1.35600722
ILMN_1900270	0.090848739	6.401474752	3.24512498	0.002095197	0.048091883	-1.66905427
ILMN_1765558	-0.090838935	7.628369439	-3.459723191	0.001113976	0.032039724	-1.089687861
ILMN_1722674	0.090790745	6.699466109	3.96716017	0.000231991	0.013154782	0.36431844
ILMN_2261784	0.090729782	8.136969936	3.844571365	0.000341937	0.016418694	0.003175762
ILMN_1783546	-0.090657319	8.003032723	-3.278191269	0.001903438	0.045121052	-1.581299921
ILMN_2379469	0.090616491	11.18543483	4.408239747	5.51805E-05	0.005226381	1.708227504
ILMN_1754179	-0.090591428	8.30519787	-4.73948392	1.81145E-05	0.002633698	2.756361293
ILMN_1768969	0.090542321	7.446225794	3.649082994	0.000627578	0.023365408	-0.560096305
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ILMN_3179620	0.090406793	6.460924823	4.565340232	3.26448E-05	0.003739076	2.201648276
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ILMN_1756542	-0.090344356	6.823393305	-3.811821267	0.000378932	0.017435104	-0.092298567
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ILMN_1805827	-0.090301517	12.81968424	-3.826923345	0.000361417	0.016988542	-0.04832635
ILMN_3307266	0.090183389	7.157898806	4.624264151	2.67677E-05	0.003272499	2.388470466
ILMN_1673991	0.090175209	10.46295498	3.590069897	0.00075165	0.025581318	-0.726897556
ILMN_2325394	0.09016368	6.413411088	4.202392481	0.000108657	0.007788072	1.072909125
ILMN_1781419	0.090137194	8.999328921	3.552638388	0.00084216	0.027262249	-0.831885113
ILMN_3272768	0.090119915	6.624887584	5.296918294	2.63744E-06	0.000834206	4.577152653
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ILMN_2350114	-0.090064528	6.477650175	-3.767265157	0.000435495	0.018838317	-0.2214865
ILMN_1766637	0.089844997	8.528574068	3.965148231	0.000233482	0.013195954	0.358344537
ILMN_1733757	0.089843143	10.38151971	3.234661605	0.002159584	0.049075527	-1.696704282
ILMN_2141259	0.089827241	6.809435194	5.095505811	5.32538E-06	0.001274985	3.912298783
ILMN_1761531	-0.089744642	7.048732444	-4.956666345	8.60928E-06	0.001667491	3.458327851
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ILMN_1766185	0.089639124	8.206930228	3.771329395	0.000430017	0.018728635	-0.209736489
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ILMN_1815882	0.089405633	6.880174958	3.952919171	0.00024275	0.013412175	0.322066682
ILMN_1736130	0.089314035	7.127000602	3.620793364	0.000684386	0.024488264	-0.640251061
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ILMN_1690352	-0.089152147	8.411518814	-3.259429671	0.002010102	0.046877323	-1.631160853
ILMN_1744046	0.089110426	7.48543954	3.70995841	0.000520261	0.020880692	-0.386425842
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ILMN_1807243	0.089040384	7.320598484	3.68012476	0.000570446	0.022047865	-0.471738694
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ILMN_1812441	-0.088944345	8.001096042	-4.041560011	0.000182863	0.011298192	0.586289293
ILMN_1764323	0.088928388	9.198452706	4.519733703	3.80433E-05	0.004028765	2.057691625
ILMN_1658027	0.088785504	7.18346088	3.841573369	0.000345173	0.01650513	-0.005582117
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ILMN_1807540	-0.08865247	7.603404083	-3.442229516	0.001173736	0.033168616	-1.137768862
ILMN_1815024	0.088600117	10.93683771	3.32237522	0.001673005	0.041479641	-1.463161687
ILMN_1722276	-0.088549179	8.935430807	-3.945919185	0.000248214	0.013643953	0.301326612
ILMN_1774890	0.088423146	7.438108109	4.614848182	2.76319E-05	0.003354361	2.358554991
ILMN_1799367	0.08839355	10.52338823	3.311506821	0.001727102	0.042349633	-1.492313811
ILMN_2395240	0.088352862	7.737161267	3.692481639	0.000549121	0.021537522	-0.43644928
ILMN_2334204	0.08829312	6.883614053	3.59660062	0.000736843	0.025277012	-0.708515076
ILMN_1752270	0.088241482	6.838127405	4.589765236	3.00695E-05	0.003562459	2.278977573
ILMN_3280667	0.088137089	6.65216831	5.066729003	5.88456E-06	0.001380109	3.817897466
ILMN_3228585	-0.088052264	8.42274286	-3.435908755	0.001196069	0.033496112	-1.155105127
ILMN_1801600	-0.08802934	8.147343777	-3.622116034	0.000681624	0.024478822	-0.636511372
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ILMN_1658437	0.087993713	8.967506283	3.244519943	0.00209887	0.04811213	-1.670654673
ILMN_1687971	-0.087973652	6.275942845	-3.535200031	0.000887797	0.02811042	-0.880576893
ILMN_3248758	0.087866124	6.366764829	4.018920027	0.000196634	0.011975832	0.518526541
ILMN_1693771	0.087760792	7.76639878	3.313234073	0.001718396	0.042204627	-1.487684841
ILMN_1738767	-0.08772946	8.400322766	-4.011494315	0.000201366	0.012094573	0.496341933
ILMN_2332558	0.08768534	9.264804547	3.909933026	0.00027823	0.014712052	0.19500099
ILMN_2168992	0.087567305	7.435519657	4.613288937	2.77776E-05	0.003360218	2.353603348
ILMN_1813240	0.08753795	10.31536467	3.338601393	0.001595218	0.04040907	-1.419527225
ILMN_1664608	-0.087531002	8.508846577	-3.334824786	0.001613011	0.040600074	-1.429694916
ILMN_2054145	0.08750574	8.440683457	3.414394209	0.001275155	0.034835369	-1.213969148
ILMN_1732725	0.087491159	7.960481739	3.489470534	0.001018954	0.030580526	-1.007592395

ILMN_1671809	-0.087398657	8.469299951	-3.605120418	0.000717945	0.024926372	-0.684504928
ILMN_1797367	-0.087268098	7.058893365	-3.743073078	0.000469522	0.019597123	-0.291284759
ILMN_1693221	0.087213622	7.609533438	3.588493506	0.000755266	0.025653751	-0.731331846
ILMN_2386100	0.087129741	9.046575082	3.586667157	0.000759477	0.025703058	-0.736467852
ILMN_1669308	0.08710429	7.241028612	4.357398269	6.5306E-05	0.005933454	1.550082399
ILMN_1672759	-0.087079689	8.162982829	-3.743816307	0.000468439	0.019597123	-0.289144074
ILMN_1846771	-0.086997304	6.375978592	-3.349683403	0.001544076	0.039520098	-1.389649944
ILMN_1689968	-0.086933012	6.296840589	-3.516604704	0.000939059	0.02914041	-0.932344054
ILMN_2127477	0.086559898	7.228713871	3.279430926	0.001896582	0.045001081	-1.577998994
ILMN_1653553	0.086530761	6.729792388	3.919255789	0.000270134	0.014438959	0.222498303
ILMN_1672553	0.086431767	5.859541859	3.662729221	0.000601817	0.022725358	-0.521305414
ILMN_1801378	0.08642688	8.348091427	3.494354377	0.001004111	0.030366423	-0.994074087
ILMN_1727300	-0.086392428	7.468962948	-4.654648893	2.41557E-05	0.003034838	2.485162432
ILMN_1702231	-0.086279148	6.197290273	-3.899863161	0.000287238	0.015027045	0.16533808
ILMN_1688089	0.086247268	10.74742542	4.027275899	0.000191439	0.011743844	0.543514293
ILMN_2129388	-0.08624141	7.432400372	-3.571030498	0.000796458	0.02631408	-0.780378875
ILMN_1786976	-0.086220771	8.587619334	-3.537939804	0.000880473	0.027977144	-0.872936131
ILMN_1679881	0.086126327	7.188560734	3.337400327	0.001600856	0.040464478	-1.422761613
ILMN_2333687	-0.086109714	6.597974131	-3.850923957	0.000335176	0.016287503	0.021745153
ILMN_1665219	-0.086102396	7.186449874	-4.301433834	7.85473E-05	0.006509608	1.37691745
ILMN_1668605	0.086063104	7.037080861	4.094621492	0.000154148	0.010027156	0.745831965
ILMN_1751984	-0.085978064	7.973189984	-5.171620877	4.08657E-06	0.001100692	4.162726345
ILMN_2055165	-0.085881512	11.24431997	-3.524102343	0.000918059	0.028760166	-0.911490871
ILMN_1730799	-0.085880924	7.340899208	-3.234536776	0.002160363	0.049075527	-1.697033805
ILMN_1733690	0.085880907	6.91600418	3.768766645	0.000433464	0.018773994	-0.217146953
ILMN_2393544	-0.085836583	7.652228369	-4.423741807	5.24101E-05	0.005033123	1.756601287
ILMN_1802377	-0.085820805	6.874295034	-3.635283221	0.0006547	0.023868572	-0.599240331
ILMN_2043828	0.085792034	6.634682857	3.606667776	0.000714563	0.024876348	-0.680140727
ILMN_1668465	0.085734569	6.090793778	4.112777008	0.000145366	0.009652032	0.800651193
ILMN_3263329	0.085578594	8.816942479	3.275276863	0.001919648	0.045423334	-1.589057206
ILMN_2399523	-0.085565157	7.836649947	-3.504677722	0.000973412	0.029777598	-0.965462469
ILMN_1784367	0.08547098	7.226279907	3.645566049	0.000634386	0.023517303	-0.570080344
ILMN_3182422	-0.085396062	7.415648336	-3.409741155	0.001292901	0.035153044	-1.226670336
ILMN_1770053	0.085395849	10.21354195	4.210582682	0.000105792	0.007598501	1.097927228
ILMN_1733875	-0.085394882	7.811224776	-3.843740769	0.000342831	0.016438711	0.000749026
ILMN_1672389	0.085369632	9.105181039	4.397956934	5.70964E-05	0.005349064	1.676179586
ILMN_1740005	0.085322335	6.181645512	3.253960576	0.002042243	0.047307602	-1.645661186
ILMN_2061405	0.085310432	9.813281903	3.439962436	0.0011817	0.03323025	-1.143989111
ILMN_1814074	-0.085231063	7.334846786	-3.26108275	0.002000481	0.046758372	-1.62677495
ILMN_1755822	0.085191211	6.52315749	4.233022685	9.83126E-05	0.007309774	1.166587254
ILMN_1759954	0.085123149	11.03951657	4.471564181	4.46919E-05	0.004545129	1.906272592
ILMN_1811104	-0.085108884	9.073405271	-3.773757157	0.000426776	0.018648314	-0.202714371
ILMN_2206344	-0.085063405	6.519048067	-4.647493663	2.47474E-05	0.003081022	2.4623713
ILMN_2412172	-0.085052138	6.932102583	-3.693692526	0.000547073	0.021487249	-0.432987615
ILMN_1772713	-0.085038775	9.535363942	-3.450527553	0.001145018	0.032624501	-1.114980198
ILMN_2174380	0.084822232	6.297600137	3.844757005	0.000341738	0.016418694	0.003718181
ILMN_1694752	-0.084803384	7.069329397	-4.243551984	9.49828E-05	0.007244749	1.198861017
ILMN_1782439	-0.084661013	10.19497366	-4.27804065	8.48263E-05	0.006930029	1.304825809
ILMN_2201533	0.084621143	9.821846228	3.636453788	0.000652357	0.023868572	-0.595923199
ILMN_3307700	0.084519082	8.613779351	3.320573717	0.00168186	0.041479641	-1.467997973
ILMN_1701308	-0.084379387	6.375542286	-3.619223933	0.000687678	0.024517462	-0.644687426
ILMN_2048822	0.084166848	7.987739817	3.775982867	0.000423825	0.018542887	-0.196274522
ILMN_1761058	-0.084102987	7.335681071	-4.322973605	7.31674E-05	0.006322105	1.443450305
ILMN_1786016	0.084097975	7.078864237	4.449472421	4.81086E-05	0.004779802	1.837048822

ILMN_1677747	0.084084024	6.347556495	3.488611996	0.001021584	0.030580526	-1.009967633
ILMN_1655206	-0.084007166	6.955883342	-4.51284218	3.89316E-05	0.004079352	2.035988434
ILMN_1805658	0.083963599	9.531574837	4.212122215	0.000105262	0.007592044	1.102632437
ILMN_1709479	0.083825884	10.30830298	3.352089428	0.00153318	0.039387419	-1.383155124
ILMN_1792748	-0.083794857	6.144422072	-3.42421833	0.001238444	0.034129975	-1.187118128
ILMN_2333865	-0.083702334	7.367843472	-3.620651165	0.000684684	0.024488264	-0.640653066
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ILMN_1724907	0.083636344	8.172696565	3.396137036	0.001346142	0.036004348	-1.263744007
ILMN_2383419	0.083611606	6.691453077	3.765309745	0.000438155	0.018882297	-0.227137291
ILMN_1728059	0.08358392	7.675855752	3.24193592	0.002114626	0.048408933	-1.677487599
ILMN_1719256	0.083579125	10.98632788	3.541396725	0.000871316	0.027788599	-0.863290411
ILMN_1744268	-0.083575133	8.450240022	-3.474457088	0.001065902	0.03116883	-1.049078443
ILMN_1781001	0.083556422	6.255321047	4.536037094	3.60201E-05	0.00391472	2.109087642
ILMN_1727281	0.083553484	7.373108918	3.730228033	0.000488612	0.019992792	-0.328244845
ILMN_2389810	0.083549919	7.036975926	4.440150829	4.96256E-05	0.004863867	1.807882262
ILMN_3309694	0.083543705	6.608769909	4.24541012	9.44067E-05	0.007244749	1.204560226
ILMN_3258795	-0.083428689	8.134017625	-3.594754224	0.000741001	0.025369155	-0.713714206
ILMN_1734153	-0.083359672	7.901925119	-3.825677733	0.000362832	0.017019032	-0.051956659
ILMN_1684771	0.083242366	9.932249583	5.324702001	2.39262E-06	0.000807064	4.669393344
ILMN_2184640	0.083220373	8.438207727	3.455299386	0.001128808	0.032269314	-1.101860467
ILMN_1712894	-0.082972218	5.769307687	-4.544174057	3.505E-05	0.003881022	2.134766593
ILMN_2332691	-0.082970114	5.726568903	-3.86731534	0.000318319	0.015904902	0.069733618
ILMN_1758173	0.0829329	9.107964049	3.915867563	0.00027305	0.014527246	0.212500895
ILMN_1737360	-0.0829233	5.933497061	-3.951771588	0.000243638	0.013439436	0.318665261
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ILMN_1813836	0.082819839	11.55781151	4.296619403	7.98014E-05	0.006597683	1.362066435
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ILMN_1806705	-0.0827874	6.603106889	-3.481014098	0.00104515	0.030982443	-1.030972858
ILMN_2341952	0.082774316	9.937689774	3.671564491	0.000585682	0.022361007	-0.496146734
ILMN_1802894	0.082692769	8.105850678	3.580960138	0.00077278	0.025830261	-0.752507222
ILMN_3265365	0.082644807	7.309240054	3.728908513	0.000490615	0.020040789	-0.332037652
ILMN_2149053	0.082626204	8.052889189	3.832433463	0.000355223	0.016810019	-0.032259695
ILMN_1682818	-0.082587423	6.036895035	-3.654713941	0.000616822	0.02306461	-0.544099624
ILMN_1658110	0.082474356	7.626379394	3.824949013	0.000363662	0.01703351	-0.054080207
ILMN_2081335	0.082468277	9.440519939	4.129927583	0.000137516	0.009241749	0.852542179
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ILMN_1813275	-0.082195498	10.06033962	-3.286104266	0.001860075	0.044502403	-1.560215788
ILMN_1767747	0.082072801	11.16732194	4.061661035	0.000171423	0.010784612	0.646609103
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ILMN_1719010	-0.081923695	6.77102049	-3.684834702	0.000562226	0.021828028	-0.45829559
ILMN_1666078	0.081842125	7.427112998	4.158250298	0.000125446	0.008701955	0.93845886
ILMN_1750088	0.081809059	8.257719251	3.484046872	0.001035682	0.03078118	-1.022591698
ILMN_1728975	0.081757633	9.406541507	4.804829197	1.44968E-05	0.002349659	2.966444723
ILMN_2407799	0.081752504	6.374703257	4.356170924	6.55716E-05	0.005933454	1.546274361
ILMN_1667577	0.081696008	8.290849641	4.330350735	7.14087E-05	0.006248444	1.46627044
ILMN_1762529	0.081630602	7.058433989	3.359071905	0.00150197	0.038787956	-1.364290243
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ILMN_1678037	0.081461881	7.767012798	3.527094493	0.000909804	0.028592897	-0.903161498
ILMN_1659343	0.081338253	10.95082878	4.247954276	9.36234E-05	0.007224229	1.212365394
ILMN_1663383	0.081330231	6.846656051	3.617404226	0.000691513	0.024552645	-0.649829878
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ILMN_1660844	0.08126418	8.236984184	4.224095075	0.000101224	0.007390097	1.139251391
ILMN_1805863	-0.081167071	7.372344362	-3.440220028	0.001180792	0.03323025	-1.143282474
ILMN_2054362	0.081030312	7.511284142	4.05136318	0.000177194	0.011007117	0.615688698
ILMN_1784328	0.080956568	6.665213299	3.694720538	0.000545339	0.021487249	-0.430048257
ILMN_1680196	0.080946933	10.993156	3.706282072	0.000526208	0.020981412	-0.396959445
ILMN_1815306	-0.08091138	7.293170646	-3.535150635	0.000887929	0.02811042	-0.880714619
ILMN_3246391	0.080854173	7.146862906	3.265376607	0.001975695	0.046398779	-1.615375975
ILMN_1749709	-0.080828156	10.32534891	-3.300991238	0.001781017	0.043301717	-1.520462376
ILMN_1690252	0.080797463	7.900762356	3.404312026	0.001313904	0.035472325	-1.24147656
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ILMN_2179726	0.080691536	6.727532067	4.682542113	2.19786E-05	0.002875057	2.574133207
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ILMN_2381603	0.080472477	6.527529949	4.326199317	7.23933E-05	0.006307263	1.453426517
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ILMN_2221014	0.080078787	6.324598604	3.71165017	0.000517546	0.020844522	-0.381576593
ILMN_3248701	0.080073891	5.966318015	3.557982061	0.000828629	0.026900028	-0.81693637
ILMN_1802157	0.080044194	8.260439835	5.000485312	7.40101E-06	0.001514546	3.601193035
ILMN_2313821	0.080042996	8.017745795	5.24209744	3.19536E-06	0.000934754	4.395509657
ILMN_1772894	0.080041765	6.317471789	3.677669301	0.000574777	0.022072726	-0.478743241
ILMN_3239130	-0.079994887	6.887690391	-3.989142757	0.000216282	0.012681172	0.429689018
ILMN_1730523	0.079993571	7.930678436	3.322259282	0.001673574	0.041479641	-1.463472982
ILMN_3246353	0.079957349	7.169918263	3.480361033	0.001047199	0.03101653	-1.032777053
ILMN_3228700	0.079954994	6.753810593	3.868022844	0.000317611	0.015892516	0.071807358
ILMN_1772703	0.079912572	7.706179104	3.583369031	0.000767138	0.025766729	-0.745738916
ILMN_1664030	0.079804849	7.490503007	3.432206943	0.001209336	0.033515316	-1.16524931
ILMN_1710756	0.07978289	13.05099861	3.496795347	0.00099677	0.030259518	-0.987313355
ILMN_3295874	-0.079700619	6.768968205	-3.283234735	0.001875691	0.044659066	-1.56786536
ILMN_1753613	-0.079675303	7.234789364	-3.389108357	0.00137446	0.036444246	-1.282862826
ILMN_3248263	-0.079643072	7.57376143	-3.89702745	0.000289825	0.015116513	0.156992039
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ILMN_1778238	0.079583496	9.702042835	4.27209377	8.64988E-05	0.006982696	1.286526928
ILMN_1734826	0.079510422	10.01109247	3.572527827	0.000792844	0.026270447	-0.776178872
ILMN_1674706	0.079505111	8.760990694	3.63642907	0.000652406	0.023868572	-0.595993251
ILMN_1708513	-0.079481667	5.683599156	-3.815103284	0.000375057	0.017295556	-0.082750314
ILMN_1793476	-0.079474787	8.059651438	-3.547264644	0.000855979	0.027502998	-0.846904747
ILMN_1793371	-0.079473564	8.352824034	-3.580829517	0.000773087	0.025830261	-0.752874157
ILMN_2350801	-0.079374804	6.091863246	-4.2328743	9.83603E-05	0.007309774	1.166132692
ILMN_2395236	0.079362261	7.819575602	3.452315992	0.001138917	0.032531321	-1.110064325
ILMN_1782954	0.079319562	9.122717301	3.395489146	0.001348729	0.036017653	-1.26550736
ILMN_2391512	0.079107315	6.565383725	3.268316089	0.001958895	0.046193477	-1.607566971
ILMN_1737416	-0.079064985	7.319151182	-3.263103706	0.001988779	0.04664296	-1.621411074
ILMN_2405009	-0.079034251	9.694206071	-3.366079523	0.001471254	0.038281484	-1.345332976
ILMN_1750130	0.079019059	11.23969926	4.002688978	0.000207119	0.012290255	0.470062048
ILMN_1690282	0.079003338	7.509177298	4.086933116	0.00015802	0.010161946	0.722652565

ILMN_1796968	0.078969099	7.273116102	3.67885387	0.000572684	0.022062985	-0.475364416
ILMN_1654518	-0.078707086	6.571464652	-3.361081296	0.001493101	0.038607137	-1.358856865
ILMN_1745110	-0.078672361	9.549561246	-3.853439782	0.000332534	0.016238578	0.02910368
ILMN_3212373	0.078631255	9.858827987	3.535546663	0.000886867	0.02811042	-0.87961048
ILMN_1690138	0.078628357	7.195187762	4.47766294	4.37912E-05	0.004466704	1.925407513
ILMN_2347298	-0.078580952	6.475009641	-3.373985322	0.001437318	0.037625635	-1.323916589
ILMN_1893633	0.078527366	6.969511068	3.474988466	0.001064206	0.03116883	-1.047611931
ILMN_1662905	0.078507361	12.26726838	3.749181064	0.000460697	0.019440632	-0.273685343
ILMN_2083243	0.078502149	8.48723459	4.251652748	9.24959E-05	0.007220796	1.223715623
ILMN_2246894	-0.078488641	10.1219053	-3.690361576	0.000552724	0.021556245	-0.442508555
ILMN_2414007	0.078437045	6.757321203	4.019993001	0.00019596	0.011957347	0.521733771
ILMN_1755758	0.078411645	6.84684349	3.333350717	0.001620006	0.040673606	-1.433661576
ILMN_1653822	0.078242257	6.814944733	4.028389585	0.000190756	0.011722844	0.546846641
ILMN_3306388	0.078231077	6.678256697	4.010053244	0.000202297	0.012129354	0.492039037
ILMN_1668657	0.078208555	6.905298391	4.59906024	2.91426E-05	0.003488612	2.30844726
ILMN_1721977	0.078101769	8.948922115	3.862790095	0.00032289	0.016040262	0.056474523
ILMN_1700232	0.078095523	8.155791901	3.928518997	0.000262315	0.014219428	0.249853271
ILMN_1653836	-0.078089211	6.280263901	-3.724120461	0.000497948	0.020244413	-0.345794146
ILMN_1842850	-0.078081729	6.399931117	-3.503993666	0.000975418	0.029812516	-0.967359911
ILMN_2221673	0.078024548	9.902959077	3.240026998	0.002126338	0.048535586	-1.682533116
ILMN_1795865	-0.077990646	7.208198689	-3.648192174	0.000629296	0.023404091	-0.562625713
ILMN_2406501	0.077905052	7.147168897	3.509940134	0.00095811	0.029485439	-0.950858199
ILMN_1811574	-0.077887257	8.301683555	-3.272886764	0.00193304	0.045677505	-1.595415671
ILMN_1755910	-0.077829811	6.575995019	-3.832659753	0.000354971	0.016810019	-0.031599605
ILMN_3255144	0.077718035	6.47117696	3.615380029	0.000695804	0.024558061	-0.655548479
ILMN_2286024	0.077713749	5.747320821	5.488709304	1.34331E-06	0.000564779	5.216213614
ILMN_1736176	0.077656769	7.014994795	3.853629949	0.000332335	0.016238578	0.029660002
ILMN_1798940	0.077607289	6.881157459	4.087774497	0.000157591	0.010155363	0.725188191
ILMN_3234884	0.077488033	8.666051852	3.37819099	0.001419568	0.037331073	-1.312511023
ILMN_1702384	-0.077393663	7.422851444	-3.284596349	0.001868266	0.044571665	-1.564236109
ILMN_2050617	0.077362511	10.63245265	3.231025828	0.002182391	0.04951251	-1.706298574
ILMN_1753265	-0.077333261	6.468277715	-3.647270094	0.000631078	0.023445107	-0.565243515
ILMN_2352934	0.077310439	6.5887728	3.631849704	0.000661621	0.023919797	-0.608966662
ILMN_2181992	-0.077286229	6.76912353	-3.39566305	0.001348034	0.036017653	-1.265034069
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ILMN_1798543	0.076997558	7.45845359	3.615543209	0.000695457	0.024558061	-0.655087544
ILMN_1723843	-0.076957245	8.337516591	-3.974324774	0.000226753	0.01305066	0.385604178
ILMN_1755620	-0.076878492	6.813173541	-3.410615364	0.001289549	0.035117296	-1.224284862
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ILMN_1655952	-0.076787833	9.166140473	-3.40273713	0.001320057	0.035548673	-1.245768889
ILMN_1749243	0.076611613	7.439673282	3.620290968	0.000685438	0.024488264	-0.641671321
ILMN_1653283	-0.076537693	6.972005154	-3.299229545	0.001790204	0.043403012	-1.525172633
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ILMN_1775823	-0.076403162	7.61742292	-3.295319552	0.001810755	0.043749924	-1.535621149
ILMN_1782633	0.076245244	10.44958047	3.779808701	0.000418799	0.018393013	-0.185200089
ILMN_1700378	0.075958014	7.794192441	3.401631011	0.001324395	0.03556843	-1.248782855
ILMN_1772743	0.075933398	8.542248212	3.466927038	0.001090219	0.031665027	-1.069845623
ILMN_1760933	0.075920704	7.729166437	3.706150672	0.000526422	0.020981412	-0.397335833
ILMN_1662417	0.075881508	8.315637427	4.021398827	0.000195079	0.011924716	0.525936573
ILMN_2389528	0.075779668	6.108071362	4.519325317	3.80954E-05	0.004028765	2.056405143
ILMN_1782377	0.075656596	8.157530126	4.111193984	0.000146112	0.009668604	0.795866757

ILMN_1686835	0.075618458	6.816222489	3.564634579	0.000812075	0.026563495	-0.79830789
ILMN_3247906	-0.075548023	8.076962899	-3.605195665	0.000717781	0.024926372	-0.684292723
ILMN_2411794	-0.075544527	8.508564921	-3.868326224	0.000317307	0.015892516	0.072696645
ILMN_3268403	-0.075534312	5.923421506	-3.824539936	0.000364129	0.01703351	-0.055272195
ILMN_3242462	0.075356502	6.881228331	3.796150935	0.000397968	0.017958559	-0.137827007
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ILMN_2397571	0.075104507	6.875507995	3.262732555	0.001990923	0.046661507	-1.622396317
ILMN_1672547	-0.075070434	7.394584235	-3.394094186	0.001354315	0.036070429	-1.2693033
ILMN_2410742	-0.074999109	8.216273899	-3.487088168	0.00102627	0.030580526	-1.014182612
ILMN_1758827	0.074966957	7.929980088	3.889706682	0.000296608	0.015308195	0.135460166
ILMN_1724333	-0.074953178	7.319626576	-4.256631339	9.09991E-05	0.007161366	1.239001423
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ILMN_1729868	0.074827121	6.962719886	4.090434356	0.000156245	0.010087444	0.733205725
ILMN_1783337	0.074778737	6.847806658	3.672166234	0.000584599	0.022356075	-0.494432014
ILMN_2224990	0.074775767	6.33814044	4.000826942	0.000208356	0.012321234	0.464508405
ILMN_2191313	-0.074668205	6.159919208	-4.226755049	0.000100348	0.007349386	1.147393343
ILMN_1780292	0.074580965	6.065160059	4.514633693	3.86987E-05	0.004079352	2.0416291
ILMN_1771903	0.074546562	10.20930277	3.666718037	0.000594481	0.022547111	-0.509951369
ILMN_2377430	-0.074481234	7.648642656	-4.00431985	0.000206042	0.012277821	0.474927283
ILMN_1708029	-0.074426632	5.796381971	-3.735981547	0.00047997	0.019769968	-0.311698418
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ILMN_1797499	0.074312538	7.334307376	3.368553077	0.001460555	0.038118174	-1.338635588
ILMN_1662364	0.074304219	9.77174734	3.484838032	0.001033225	0.03075036	-1.020404588
ILMN_1721034	-0.07425843	6.996372494	-3.669741748	0.000588977	0.022452432	-0.501339833
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ILMN_1781257	0.072847446	7.109016083	3.665912256	0.000595956	0.022553434	-0.512245559
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ILMN_1707534	0.072741445	7.520500785	5.668298295	7.1122E-07	0.000372997	5.819038767
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ILMN_1765644	0.072453772	9.649809853	4.001319067	0.000208028	0.012321234	0.465976074
ILMN_1783695	0.072384702	10.06994638	4.106225315	0.000148477	0.009806326	0.780855467
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ILMN_1708345	0.071837161	6.267427086	3.283497913	0.001874254	0.044655683	-1.567163959
ILMN_1815479	0.071831885	11.76915255	3.621769806	0.000682346	0.024479253	-0.637490366
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ILMN_1804479	0.071343236	10.40331021	4.210683215	0.000105757	0.007598501	1.098234459
ILMN_1680659	-0.071326691	6.070393958	-3.333644904	0.001618608	0.040672832	-1.432870017
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ILMN_2130838	0.07076992	9.563751763	3.286952737	0.001855482	0.044454198	-1.55795313
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ILMN_2194627	0.070510605	7.63031781	3.451487202	0.001141741	0.032558021	-1.112342606
ILMN_1760714	0.070498924	13.40671696	3.933564909	0.000258148	0.014037694	0.264768157
ILMN_1756220	0.070271588	9.88412041	3.919345629	0.000270057	0.014438959	0.222763447
ILMN_1696503	0.070165836	5.995005351	3.341054698	0.00158376	0.040177859	-1.412918393
ILMN_3238797	0.070107528	6.616323015	3.988045626	0.000217041	0.012682538	0.426422134
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ILMN_3237241	-0.069896106	8.244826704	-3.678524915	0.000573264	0.022062985	-0.476302778
ILMN_3235477	0.069853259	7.238990491	3.310182107	0.001733808	0.042423546	-1.495862964
ILMN_1766010	0.06978552	9.713605628	3.40605828	0.001307113	0.035399878	-1.23671578
ILMN_1761722	-0.069647612	6.721795399	-3.436334504	0.001194552	0.033496112	-1.153938011
ILMN_1737205	0.069608684	10.47445695	3.328386508	0.001643777	0.040976769	-1.447011996
ILMN_2396947	0.069554487	6.802563637	3.312091545	0.00172415	0.042307335	-1.490746942
ILMN_2095133	-0.069505762	8.352404301	-4.013459089	0.000200103	0.012039718	0.502209796
ILMN_1769503	0.069489701	5.950627897	4.165079332	0.000122693	0.008545386	0.959215871
ILMN_1755710	-0.069453797	6.443959721	-3.580044535	0.000774935	0.025860693	-0.755079117
ILMN_3276859	0.069359623	6.856226775	3.361890367	0.001489544	0.038553688	-1.356668577
ILMN_1734895	0.069346762	10.45557333	3.969443944	0.000230309	0.013127837	0.371101334
ILMN_1713732	-0.069309661	7.408824728	-3.562849718	0.000816486	0.026679717	-0.803307871

ILMN_1774427	-0.069030164	6.664536029	-3.311073532	0.001729293	0.042373212	-1.493474771
ILMN_2400583	-0.06897792	6.221053913	-3.690939625	0.000551739	0.021556245	-0.440856647
ILMN_1722798	-0.068965038	6.920933643	-3.579439883	0.000776361	0.025860693	-0.756777355
ILMN_3240365	-0.068959015	6.127373729	-3.488360454	0.001022356	0.030580526	-1.010663484
ILMN_1662232	-0.068907479	10.57957775	-3.615225853	0.000696132	0.024558061	-0.655983969
ILMN_2414366	0.068640082	6.528360207	4.147882288	0.00012974	0.008927988	0.906975552
ILMN_1740197	-0.06863397	6.462390215	-3.853504321	0.000332466	0.016238578	0.029292481
ILMN_1700549	0.068578717	6.885616731	3.923690946	0.000266362	0.01437401	0.235591529
ILMN_1757956	-0.068471819	7.737848	-3.226311745	0.0022123	0.049948438	-1.718728019
ILMN_1677953	0.068393927	8.51731532	3.228721753	0.002196961	0.049732396	-1.712375103
ILMN_1733511	-0.068356624	9.799019618	-3.582308757	0.000769616	0.025797973	-0.74871831
ILMN_3251567	-0.068297069	6.775703698	-3.517460695	0.000936638	0.02913385	-0.929964613
ILMN_1660186	-0.068272689	8.751922223	-3.443864718	0.001168023	0.033143858	-1.133280775
ILMN_1686668	0.068207863	7.342005763	4.232814258	9.83796E-05	0.007309774	1.165948762
ILMN_1706571	-0.068105933	6.719258621	-3.351798057	0.001534496	0.039391865	-1.383941806
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ILMN_3249963	0.068031667	6.239203324	3.490495537	0.001015821	0.030533085	-1.004756154
ILMN_1724009	0.068013831	7.799938942	3.790907489	0.00040454	0.018065982	-0.153038775
ILMN_1755235	0.068012934	8.331260537	3.899223111	0.00028782	0.015034677	0.163454015
ILMN_1746368	-0.0679695	7.297648285	-4.05502549	0.00017512	0.010897928	0.626680787
ILMN_1752027	-0.067874745	7.845224331	-3.325508197	0.001657711	0.04123467	-1.454747034
ILMN_1748481	0.067856719	7.970755997	3.743123012	0.000469449	0.019597123	-0.291140944
ILMN_2415949	-0.067798209	8.011595316	-3.561368357	0.000820163	0.026725846	-0.807456545
ILMN_2182198	0.067750644	9.117460601	3.960581575	0.000236902	0.013280394	0.344790788
ILMN_1678546	-0.067721067	9.135787099	-3.782079514	0.000415843	0.018351643	-0.178624024
ILMN_1805992	-0.067676799	9.205907086	-3.905734708	0.000281952	0.014801647	0.182629156
ILMN_1694486	0.067608095	6.609585853	3.911815908	0.000276576	0.014692204	0.200551797
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ILMN_1722953	-0.06749813	6.095271562	-3.725857432	0.000495276	0.020207247	-0.340804802
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ILMN_1880012	-0.067342753	6.180205205	-4.02191591	0.000194756	0.011924716	0.527482605
ILMN_2387599	-0.067248337	11.77283695	-3.280369855	0.001891405	0.044909149	-1.575498309
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ILMN_1702124	-0.06722401	8.138659758	-4.218169796	0.000103203	0.00745919	1.121123015
ILMN_1875342	-0.067215229	7.489628569	-4.262552794	8.92494E-05	0.007073475	1.257192559
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ILMN_1787477	0.06685524	6.784700874	3.51917848	0.000931799	0.029019604	-0.925188564
ILMN_1736863	-0.066715781	5.676026796	-3.541808378	0.000870231	0.027779712	-0.862141424
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ILMN_2322935	0.066679489	8.922014958	3.851064358	0.000335028	0.016287503	0.022155745
ILMN_1742922	0.066632881	8.151503348	3.68716983	0.000558192	0.021720357	-0.45162711
ILMN_2298511	0.066630408	8.45723373	3.438548891	0.001186692	0.033343425	-1.14786624
ILMN_1678268	-0.066594283	7.226246459	-3.961628684	0.000236114	0.01326011	0.34789789
ILMN_3241985	0.066558068	6.365158977	3.784659162	0.000412509	0.01828095	-0.171151013
ILMN_1665065	-0.066532619	6.807666396	-3.770268318	0.000431441	0.018733435	-0.212804802
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ILMN_1767541	0.066477693	6.062373741	3.810670511	0.000380299	0.017435104	-0.095645378
ILMN_1750178	-0.066442806	7.241326729	-3.677582626	0.000574931	0.022072726	-0.478990446
ILMN_1773148	-0.06629515	6.855625053	-3.357307527	0.001509799	0.038902714	-1.369059445
ILMN_2402806	-0.066263692	8.329239167	-3.247584924	0.002080325	0.047878028	-1.662545426
ILMN_1687546	-0.066263565	6.590848609	-3.331229932	0.001630122	0.040776416	-1.439366599
ILMN_2407308	-0.066200194	6.087804109	-3.713240551	0.000515006	0.020766484	-0.37701682
ILMN_1713875	0.066194151	6.984570751	3.314247286	0.001713308	0.042131238	-1.484968764

ILMN_1674128	0.066168538	7.295817123	4.083939144	0.000159553	0.01020546	0.713631825
ILMN_1789732	-0.066119036	7.190356831	-3.802748021	0.000389844	0.017731226	-0.118672146
ILMN_1770732	0.066018617	10.41735191	3.25916731	0.002011633	0.046877323	-1.631856813
ILMN_1738819	0.06592204	9.110634952	3.469998001	0.001080239	0.031454657	-1.061379452
ILMN_3248575	0.065907533	6.366202355	4.380920876	6.04143E-05	0.005614129	1.623153805
ILMN_1745954	0.065765503	9.440604124	3.529841457	0.000902288	0.02840848	-0.895510997
ILMN_3188099	0.065713751	7.349979962	3.863032869	0.000322643	0.016040262	0.05718565
ILMN_2046024	0.06568304	7.334315061	3.916186598	0.000272774	0.014527246	0.213442061
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ILMN_1665554	-0.065472814	6.731716216	-3.487305581	0.0010256	0.030580526	-1.013581306
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ILMN_2069821	0.065418714	6.303885667	3.882020412	0.000303895	0.015452932	0.112875929
ILMN_1779184	0.06541314	6.575723137	4.069329569	0.000167243	0.010579602	0.669659496
ILMN_1700896	0.065363639	8.699258885	3.769368929	0.000432651	0.018762366	-0.215405198
ILMN_1740165	-0.065241613	7.584426065	-3.379095377	0.001415779	0.037259839	-1.310057226
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ILMN_1663493	0.064712462	7.638220506	3.294173259	0.001816822	0.043801916	-1.538682856
ILMN_1698365	0.06451328	5.905556162	3.507772725	0.000964384	0.029553873	-0.956874774
ILMN_1810474	0.064498365	10.47726291	3.70731952	0.000524523	0.020981412	-0.393987489
ILMN_2369682	0.064425606	12.64902512	3.854843127	0.000331069	0.016238578	0.033209415
ILMN_2231020	0.064347605	8.699812758	3.269323656	0.001953167	0.04608994	-1.604889248
ILMN_2139827	0.064278633	6.494419722	3.320888096	0.001680311	0.041479641	-1.467154115
ILMN_1666332	-0.064255908	6.906979958	-3.337242455	0.001601599	0.040464478	-1.423186697
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ILMN_1689720	0.063266856	6.837395461	3.40243568	0.001321238	0.035548673	-1.246590344
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ILMN_2090786	0.062745705	6.199522487	3.548545395	0.000852666	0.027471698	-0.843326248
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ILMN_1776347	0.06262765	11.11012971	3.591045522	0.00074942	0.025581185	-0.724152619
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ILMN_3234735	0.059402138	6.842951011	4.158921099	0.000125173	0.008700521	0.940497071
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ILMN_2377733	0.058870054	6.00763885	3.362008578	0.001489025	0.038553688	-1.356348824
ILMN_3239162	-0.058835341	5.864807066	-3.324694519	0.00166167	0.041273595	-1.456932916
ILMN_1688753	0.058734302	10.48570961	3.456392411	0.001125126	0.032201321	-1.098853756
ILMN_1737144	0.058718438	5.966923819	3.982370424	0.000221008	0.012892524	0.409530498
ILMN_1785107	0.058678442	7.490235155	3.523131468	0.000920753	0.028779579	-0.914192641
ILMN_3247222	0.058448773	5.894238494	3.441937347	0.001174759	0.033170292	-1.138570632
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ILMN_1721337	0.058211788	7.576043369	3.784638614	0.000412536	0.01828095	-0.171210548
ILMN_1742962	0.058204573	6.073156708	3.405196753	0.00131046	0.035434825	-1.239064731
ILMN_1899940	0.058003612	6.250458606	3.591477152	0.000748435	0.025572898	-0.722938085
ILMN_1759789	0.057898448	6.664458115	3.341057295	0.001583748	0.040177859	-1.412911396
ILMN_1761474	0.057796317	7.498559688	3.582149905	0.000769988	0.025797973	-0.749164644
ILMN_1811301	-0.057679918	7.229325132	-3.405414172	0.001309614	0.035434825	-1.238471972
ILMN_2255310	0.05761203	11.02611257	3.819958839	0.000369395	0.017174075	-0.068616183
ILMN_3246944	0.057554365	6.035575315	3.66505768	0.000597524	0.022587987	-0.51467837
ILMN_3248562	0.057426328	6.903548659	3.459268052	0.001115493	0.032048122	-1.090940659
ILMN_1836218	0.057406946	7.240124504	3.357336264	0.001509671	0.038902714	-1.368981779
ILMN_1743131	-0.057329413	7.581141544	-3.68259217	0.000566125	0.021905426	-0.464697418
ILMN_1746893	0.057003747	6.199842473	3.30516784	0.001759415	0.042807059	-1.50928902
ILMN_3309754	-0.056942306	5.824769429	-3.293257695	0.001821681	0.043874554	-1.541127812
ILMN_1680403	-0.056941972	10.48190051	-3.235720315	0.002152985	0.049059024	-1.693909195
ILMN_1739876	-0.056941353	9.891474369	-3.599453616	0.000730462	0.025207406	-0.700478513
ILMN_1761721	0.056727118	10.41999883	3.290281914	0.001837561	0.044147562	-1.54907148

ILMN_1737805	0.056590976	5.529743714	3.25096648	0.002060044	0.047633858	-1.653592903
ILMN_1676159	0.056458594	9.376409984	3.465393168	0.001095237	0.031757254	-1.074072583
ILMN_2105573	0.056318651	6.023865854	3.548288987	0.000853328	0.027471698	-0.844042729
ILMN_1748607	0.05598653	5.781067065	3.91042576	0.000277796	0.014711683	0.196453455
ILMN_1693843	0.055789452	5.993364047	3.760444012	0.000444842	0.019051376	-0.241191465
ILMN_1724504	0.05578274	9.781236948	3.566191315	0.000808247	0.026563495	-0.793945774
ILMN_3309869	0.054710282	5.800399428	3.860618604	0.000325105	0.016125186	0.050114887
ILMN_1771815	-0.054546176	10.19335595	-3.321161647	0.001678965	0.041479641	-1.466419808
ILMN_2395092	0.054458201	5.9530958	3.570663008	0.000797348	0.02631408	-0.781409526
ILMN_1654365	0.054373604	5.770406688	3.668802044	0.000590682	0.022452432	-0.504016538
ILMN_2247296	-0.054335486	5.921463754	-4.244450319	9.47038E-05	0.007244749	1.201616217
ILMN_1873261	-0.054329967	5.929969504	-3.307952726	0.00174515	0.042537113	-1.501833872
ILMN_1701940	-0.054323418	7.001941146	-3.265145516	0.001977022	0.046398779	-1.615989701
ILMN_1703949	0.054318789	11.56885388	3.254818054	0.002037172	0.047295313	-1.643388764
ILMN_1810608	0.054159353	6.838954293	3.437755944	0.001189501	0.033395135	-1.150040744
ILMN_1801905	-0.054158522	6.675453208	-3.25843916	0.002015887	0.046927571	-1.633788172
ILMN_1655052	0.054123621	6.102045191	3.365268163	0.00147478	0.038315384	-1.347529148
ILMN_3298462	0.05389442	5.557262389	4.237946235	9.67416E-05	0.007300534	1.1816741
ILMN_2173740	-0.053868762	7.362773253	-3.241104955	0.002119717	0.048484857	-1.679684178
ILMN_1738497	-0.053804066	5.905921033	-3.441571253	0.001176043	0.033170292	-1.139575211
ILMN_1765532	0.053797577	7.495264903	3.326105259	0.001654812	0.041192266	-1.453142861
ILMN_1749212	-0.05378794	7.075684735	-3.423465047	0.001241223	0.034179237	-1.189178643
ILMN_1806122	-0.053686862	8.218411426	-3.261973484	0.001995316	0.046712808	-1.624411089
ILMN_1738656	0.053566903	9.319114388	4.344388293	6.81752E-05	0.006106451	1.509740343
ILMN_3310401	-0.053483613	5.717793192	-3.477800991	0.00105527	0.03106853	-1.039847619
ILMN_2308689	0.053455792	7.681956463	3.341467032	0.001581842	0.040177859	-1.411807331
ILMN_2049642	0.053413419	10.44110211	3.793976459	0.000400681	0.01801027	-0.144136755
ILMN_1680682	0.053382657	6.391217677	3.503378692	0.000977225	0.02981488	-0.969065542
ILMN_3240117	-0.053152688	10.03712504	-3.87387671	0.000311804	0.015706645	0.088973048
ILMN_1719857	-0.053091607	5.749521468	-3.248318664	0.002075908	0.047840254	-1.660603388
ILMN_1739454	0.052761802	7.317376461	3.938978126	0.000253749	0.013842142	0.280779613
ILMN_1755911	0.05243764	6.392163217	4.003544135	0.000206553	0.012277821	0.47261304
ILMN_2221336	0.051708064	6.184475327	3.607915249	0.000711848	0.024854261	-0.676621545
ILMN_2187746	0.051644004	6.165204253	3.36805953	0.001462684	0.038144858	-1.339972158
ILMN_2044645	-0.051587307	6.215111729	-3.379131603	0.001415627	0.037259839	-1.309958928
ILMN_1663024	0.051512303	5.277934841	4.388275129	5.89595E-05	0.005508642	1.646033677
ILMN_2311873	-0.051255788	5.907226564	-3.58318778	0.000767561	0.025766729	-0.746248271
ILMN_1907966	0.051222434	6.077735411	3.613084296	0.000700701	0.024636243	-0.662031987
ILMN_1656327	-0.051128544	5.591197549	-3.434960924	0.001199452	0.033496112	-1.157703127
ILMN_1757825	-0.051063924	5.640295739	-3.314736078	0.001710858	0.042101033	-1.483658294
ILMN_1683798	0.051004201	6.135779362	3.837324566	0.000349811	0.016657556	-0.017987719
ILMN_1861270	-0.050970799	6.065111977	-3.407059075	0.001303237	0.035350425	-1.233986657
ILMN_2048477	-0.050613337	5.872809379	-3.256836024	0.002025284	0.047114511	-1.638039387
ILMN_1801572	-0.050506336	5.635066496	-3.878462867	0.000307326	0.015581419	0.102430826
ILMN_1766247	0.049839251	6.790933682	3.477518671	0.001056164	0.03106853	-1.040627169
ILMN_1714527	-0.049684048	9.882827743	-3.428761146	0.00122181	0.033786296	-1.17468597
ILMN_1794987	0.049666037	6.293462547	3.487480262	0.001025062	0.030580526	-1.013098166
ILMN_2415572	-0.049400291	5.916208828	-3.387460493	0.00138118	0.036516535	-1.287341686
ILMN_1777060	0.049396003	6.197063807	3.493753091	0.001005927	0.030394687	-0.995739033
ILMN_1662021	0.049054491	6.45210051	3.389890481	0.001371281	0.036422403	-1.280736562
ILMN_2261099	0.048481807	5.366453395	3.412995593	0.001280464	0.034925074	-1.217787985
ILMN_1776325	-0.04844122	7.33716615	-3.43524349	0.001198443	0.033496112	-1.15692866
ILMN_3248069	-0.048280436	13.8188129	-3.515489602	0.000942221	0.029212243	-0.93544325
ILMN_1748407	0.048122896	6.545727881	3.332646665	0.001623358	0.040673606	-1.435555763

ILMN_1802766	0.048106066	6.196486709	3.496111771	0.00099882	0.030259518	-0.989206932
ILMN_2395981	-0.047927549	6.196732747	-3.457466279	0.00112152	0.032172773	-1.095899184
ILMN_2382558	0.047557563	6.634568082	3.421302099	0.001249235	0.034372413	-1.195093592
ILMN_1680703	0.047455947	10.15743726	3.564625019	0.000812099	0.026563495	-0.798334675
ILMN_1651310	0.047222886	5.642809825	3.354328408	0.001523106	0.039187017	-1.377108621
ILMN_2144352	0.047112501	6.173444441	3.282605992	0.001879129	0.044661002	-1.569540894
ILMN_1730791	0.047039316	6.350791687	3.482740016	0.001039752	0.030848947	-1.026203767
ILMN_1750469	-0.046984998	5.39683752	-3.332797395	0.00162264	0.040673606	-1.435150258
ILMN_1677815	-0.04676853	5.463738532	-3.282509254	0.001879659	0.044661002	-1.56979867
ILMN_3263072	-0.046752082	5.719879313	-3.293126278	0.00182238	0.043874554	-1.541478718
ILMN_1670715	-0.046352623	5.830224425	-3.296211153	0.001806049	0.043694978	-1.533239248
ILMN_2388090	0.046142575	5.945175386	3.509002009	0.000960821	0.029523397	-0.953462639
ILMN_1791078	0.045854784	5.184898556	3.259839411	0.002007713	0.046877323	-1.630073876
ILMN_1697512	-0.045486105	5.891820155	-3.308706744	0.001741306	0.042537113	-1.499814682
ILMN_1694414	0.04495986	5.429101362	3.401469119	0.001325031	0.03556843	-1.249223931
ILMN_1712530	0.044705186	8.099304294	3.401023338	0.001326784	0.035569364	-1.250438395
ILMN_1737498	0.044274481	6.296437908	3.360911479	0.001493849	0.038607137	-1.359316128
ILMN_2049672	-0.044102568	5.240342546	-3.606860484	0.000714143	0.024876348	-0.679597134
ILMN_2408764	-0.043561931	5.412848638	-3.6078665	0.000711954	0.024854261	-0.676759081
ILMN_1840894	0.043501707	6.43633132	3.243957774	0.002102288	0.048158469	-1.672141512
ILMN_1767433	0.042732354	6.231968029	3.259041184	0.002012369	0.046877323	-1.632191371
ILMN_1827968	-0.042660657	6.000497664	-3.770512431	0.000431113	0.018733435	-0.212098944
ILMN_1765729	0.042418539	6.196997197	3.284875923	0.001866745	0.04456918	-1.563490814
ILMN_1887128	0.042083821	6.128285112	3.345265505	0.001564275	0.039910084	-1.40156806
ILMN_1748141	0.042006859	6.114728227	3.288730076	0.001845894	0.044255244	-1.553212215
ILMN_1788625	0.041413945	6.600990258	3.29055447	0.001836101	0.04414325	-1.548344098
ILMN_1817251	0.041404039	5.987983834	3.442482185	0.001172851	0.033168616	-1.137075452
ILMN_1706758	-0.041366859	5.513888897	-3.444125662	0.001167114	0.033143858	-1.132564449
ILMN_2163187	0.040296549	5.708989621	3.472954277	0.001070714	0.031230055	-1.053225211
ILMN_1736234	0.039261134	8.67760602	3.489328395	0.001019389	0.030580526	-1.007985662
ILMN_1766565	-0.039234073	5.405055651	-3.397221108	0.001341825	0.035944632	-1.260793046
ILMN_3265439	-0.038471676	5.761816542	-3.406640019	0.001304859	0.035366595	-1.235129464
ILMN_3246292	0.03570426	13.61234894	3.402412885	0.001321327	0.035548673	-1.246652457

Supplementary Table S5. List of genes that were significantly differentially expressed following HPV16 early gene depletion in W12 cells.

DEGs.siRNA.probeset	DEGs.siRNA.symbol	E6.associated	E7.associated
ILMN_2301083	UBE2C	FALSE	TRUE
ILMN_1663390	CDC20	TRUE	FALSE
ILMN_1686097	TOP2A	TRUE	FALSE
ILMN_1801939	CCNB2	TRUE	FALSE
ILMN_1751444	NCAPG	FALSE	FALSE
ILMN_1747911	CDK1	FALSE	FALSE
ILMN_1751776	CKAP2L	TRUE	FALSE
ILMN_1684217	AURKB	TRUE	FALSE
ILMN_1714730	UBE2C	FALSE	TRUE
ILMN_1654268	HMGB2	FALSE	FALSE
ILMN_1747016	CEP55	FALSE	FALSE
ILMN_1726720	NUSAP1	FALSE	FALSE
ILMN_2409220	HMMR	TRUE	FALSE
ILMN_3239771	DLGAP5	TRUE	FALSE
ILMN_1670238	CDC45	FALSE	FALSE
ILMN_1683450	CDCA5	TRUE	FALSE
ILMN_1786125	CCNA2	TRUE	FALSE
ILMN_1749829	DLGAP5	TRUE	FALSE
ILMN_1695658	KIF20A	FALSE	FALSE
ILMN_1815184	ASPM	TRUE	FALSE
ILMN_1728934	PRC1	TRUE	FALSE
ILMN_1777564	MAD2L1	TRUE	FALSE
ILMN_1781942	HMMR	FALSE	FALSE
ILMN_2349459	BIRC5	FALSE	TRUE
ILMN_1666305	CDKN3	FALSE	FALSE
ILMN_1801257	CENPA	FALSE	FALSE
ILMN_2075334	HIST1H4C	FALSE	FALSE
ILMN_2196984	OIP5	FALSE	FALSE
ILMN_1789123	PLK4	TRUE	FALSE
ILMN_1678669	RRM2	TRUE	FALSE
ILMN_2202948	BUB1	TRUE	FALSE
ILMN_1670353	RAD51AP1	TRUE	FALSE
ILMN_1809590	GIN52	FALSE	FALSE
ILMN_1802819	DEPDC1	FALSE	FALSE
ILMN_1788166	TTK	TRUE	FALSE
ILMN_2210129	PRIM1	FALSE	FALSE
ILMN_1703906	HJURP	FALSE	FALSE
ILMN_1737728	CDCA3	TRUE	FALSE
ILMN_2357438	AURKA	FALSE	TRUE
ILMN_2409298	NUSAP1	TRUE	FALSE
ILMN_1796949	TPX2	FALSE	FALSE
ILMN_1737195	CENPK	TRUE	FALSE

ILMN_2368718	CENPM	FALSE	FALSE
ILMN_1739645	ANLN	FALSE	FALSE
ILMN_2212909	MELK	TRUE	FALSE
ILMN_1693471	KLHL35	TRUE	FALSE
ILMN_1712803	CCNB1	TRUE	FALSE
ILMN_1680955	AURKA	FALSE	TRUE
ILMN_3232696	DHFR	FALSE	FALSE
ILMN_2051373	NEK2	TRUE	FALSE
ILMN_2222008	KIFC1	FALSE	FALSE
ILMN_2219712	HMGB2	TRUE	FALSE
ILMN_2041046	CKS1B	TRUE	FALSE
ILMN_2413898	MCM10	TRUE	FALSE
ILMN_2042771	PTTG1	FALSE	FALSE
ILMN_2049021	PTTG3P	FALSE	FALSE
ILMN_1694502	PRIM1	FALSE	FALSE
ILMN_1719256	CKS1B	TRUE	FALSE
ILMN_2148796	MND1	FALSE	FALSE
ILMN_1806037	TK1	FALSE	FALSE
ILMN_1753196	PTTG1	FALSE	FALSE
ILMN_1731184	MELK	TRUE	FALSE
ILMN_1664516	CENPF	FALSE	FALSE
ILMN_2285996	KIAA0101	TRUE	FALSE
ILMN_1651237	CDT1	FALSE	FALSE
ILMN_1786065	UHRF1	FALSE	FALSE
ILMN_1664511	NDC80	FALSE	FALSE
ILMN_1781943	FAM83D	FALSE	FALSE
ILMN_1761903	KCNS1	FALSE	FALSE
ILMN_2181432	PAPL	FALSE	FALSE
ILMN_1710676	FBXO5	FALSE	FALSE
ILMN_1796589	TRIP13	TRUE	FALSE
ILMN_1704537	PHGDH	TRUE	FALSE
ILMN_1673721	EXO1	TRUE	FALSE
ILMN_1790100	DDIAS	TRUE	FALSE
ILMN_1763907	CENPW	TRUE	FALSE
ILMN_2160929	FEN1	FALSE	FALSE
ILMN_1700337	TROAP	FALSE	TRUE
ILMN_1794539	KIF11	FALSE	FALSE
ILMN_1724489	RFC4	FALSE	FALSE
ILMN_2330861	SMC4	FALSE	FALSE
ILMN_2362549	ZWINT	FALSE	FALSE
ILMN_1712452	KIF20B	FALSE	FALSE
ILMN_1780667	POC1A	TRUE	FALSE
ILMN_1756326	CKS2	FALSE	FALSE
ILMN_1658143	RFC3	FALSE	FALSE
ILMN_1759277	OIP5	FALSE	FALSE
ILMN_1711470	UBE2T	FALSE	FALSE

ILMN_1778543	DHFR	TRUE	FALSE
ILMN_1724407	TACC3	FALSE	FALSE
ILMN_1727055	PARPBP	FALSE	FALSE
ILMN_1685916	KIF2C	FALSE	FALSE
ILMN_2157240	MNS1	FALSE	FALSE
ILMN_1673673	PBK	TRUE	FALSE
ILMN_1671906	MND1	TRUE	FALSE
ILMN_1716279	CENPE	TRUE	FALSE
ILMN_1720526	CENPN	FALSE	FALSE
ILMN_2330307	SLC43A3	TRUE	FALSE
ILMN_2108357	RPL39L	TRUE	FALSE
ILMN_1771593	RRM1	FALSE	FALSE
ILMN_2143155	KIF11	FALSE	FALSE
ILMN_1811472	KIF23	TRUE	FALSE
ILMN_1773119	CCNF	FALSE	FALSE
ILMN_1754241	MEIOB	TRUE	FALSE
ILMN_2370365	RFC4	FALSE	FALSE
ILMN_1814281	SPC25	FALSE	FALSE
ILMN_1808071	KIF14	FALSE	FALSE
ILMN_2048700	ATAD2	TRUE	FALSE
ILMN_1655642	FANCI	FALSE	FALSE
ILMN_1808591	UBE2S	FALSE	TRUE
ILMN_3220769	CKS1B	FALSE	FALSE
ILMN_1663195	MCM7	FALSE	FALSE
ILMN_1737184	CDCA7	FALSE	FALSE
ILMN_2077550	RACGAP1	TRUE	FALSE
ILMN_1710428	CDK1	FALSE	FALSE
ILMN_1737205	MCM4	TRUE	FALSE
ILMN_2225718	CENPE	TRUE	FALSE
ILMN_1758728	FANCG	FALSE	FALSE
ILMN_1701882	NA	TRUE	FALSE
ILMN_1709294	CDCA8	FALSE	FALSE
ILMN_1671843	PSRC1	FALSE	FALSE
ILMN_2392472	CENPA	FALSE	FALSE
ILMN_2072296	CKS2	FALSE	FALSE
ILMN_2396982	BCL2L12	FALSE	TRUE
ILMN_1775008	NCAPD2	FALSE	FALSE
ILMN_1657796	STMN1	FALSE	FALSE
ILMN_1776490	C17orf53	FALSE	FALSE
ILMN_1712413	RPL39L	TRUE	FALSE
ILMN_1740291	POLQ	FALSE	FALSE
ILMN_1757697	NEIL3	TRUE	FALSE
ILMN_2235137	FANCD2	TRUE	FALSE
ILMN_1774336	POLE2	FALSE	FALSE
ILMN_1777233	E2F2	TRUE	FALSE
ILMN_1659364	RFC5	TRUE	FALSE

ILMN_1705153	NEFH	FALSE	FALSE
ILMN_2412384	CCNE2	FALSE	FALSE
ILMN_1765701	TUBA1B	FALSE	FALSE
ILMN_1752953	BCL2L12	FALSE	TRUE
ILMN_1725260	CDC25C	FALSE	FALSE
ILMN_1716445	DTYMK	TRUE	FALSE
ILMN_2355665	MTFP1	FALSE	FALSE
ILMN_1798654	MCM6	TRUE	FALSE
ILMN_1772910	GAS1	TRUE	TRUE
ILMN_1665559	CDK2	FALSE	FALSE
ILMN_2072622	ERVMER34-1	TRUE	FALSE
ILMN_2368721	CENPM	FALSE	FALSE
ILMN_2338323	CDC25B	FALSE	FALSE
ILMN_1781479	SUV39H1	FALSE	FALSE
ILMN_1728972	FAM64A	FALSE	TRUE
ILMN_1695414	ASF1B	FALSE	FALSE
ILMN_1768816	TMPO	FALSE	FALSE
ILMN_1683120	UNG	FALSE	FALSE
ILMN_3228822	TMEM194A	FALSE	FALSE
ILMN_1711005	CDC25A	TRUE	FALSE
ILMN_1731070	ORC6	TRUE	FALSE
ILMN_2413650	STIL	FALSE	FALSE
ILMN_1814122	MDC1	TRUE	FALSE
ILMN_1732688	DUT	FALSE	FALSE
ILMN_2362545	ZWINT	FALSE	FALSE
ILMN_1771039	NA	FALSE	FALSE
ILMN_3234884	KIF22	TRUE	FALSE
ILMN_1776577	DSCC1	FALSE	FALSE
ILMN_1806040	TYMS	FALSE	FALSE
ILMN_1729142	CENPV	FALSE	TRUE
ILMN_2407619	CDC25C	FALSE	FALSE
ILMN_2311089	BRCA1	TRUE	FALSE
ILMN_1745420	PHF19	FALSE	FALSE
ILMN_1658027	RAD54L	TRUE	FALSE
ILMN_1668814	CENPM	FALSE	FALSE
ILMN_1799667	KIF4A	TRUE	FALSE
ILMN_2344971	FOXM1	TRUE	FALSE
ILMN_1702197	SAPCD2	FALSE	FALSE
ILMN_1710962	TMEM97	FALSE	FALSE
ILMN_3306440	TMEM194A	FALSE	FALSE
ILMN_1713249	PHF19	FALSE	FALSE
ILMN_2412860	MCM4	FALSE	FALSE
ILMN_1658407	SLC43A3	FALSE	FALSE
ILMN_1799516	DNAJC9	FALSE	FALSE
ILMN_1669479	MEST	TRUE	TRUE
ILMN_2384807	LRRCC1	FALSE	FALSE

ILMN_2410038	FAM111A	FALSE	FALSE
ILMN_1719870	FAM72D	TRUE	FALSE
ILMN_1790537	RMI2	FALSE	TRUE
ILMN_1717173	ECT2	TRUE	FALSE
ILMN_2413899	MCM10	TRUE	FALSE
ILMN_1696713	POLA2	TRUE	FALSE
ILMN_2251804	SMC4	FALSE	FALSE
ILMN_2330243	NUDT1	FALSE	FALSE
ILMN_1782403	PRR11	TRUE	FALSE
ILMN_1805828	VRK1	TRUE	FALSE
ILMN_1742981	TUBA1A	FALSE	FALSE
ILMN_1742922	PRIM2	TRUE	FALSE
ILMN_1656452	C16orf59	FALSE	FALSE
ILMN_1746359	RERG	FALSE	FALSE
ILMN_1653553	C14orf80	TRUE	FALSE
ILMN_2148012	NA	FALSE	FALSE
ILMN_1730825	SGOL1	TRUE	FALSE
ILMN_2074258	BARD1	FALSE	FALSE
ILMN_1779711	DTL	FALSE	FALSE
ILMN_1735093	TIMELESS	FALSE	FALSE
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ILMN_2221046	GM2A	FALSE	FALSE
ILMN_1913510	NA	FALSE	TRUE
ILMN_1795342	MLPH	FALSE	FALSE
ILMN_1781374	TUFT1	FALSE	FALSE
ILMN_1782141	GRHL3	FALSE	FALSE
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ILMN_1667948	SPATA18	FALSE	FALSE
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ILMN_1659544	STX3	FALSE	FALSE
ILMN_1803018	KIFC2	TRUE	FALSE
ILMN_1809783	FAM25A	FALSE	FALSE
ILMN_1682599	GPRC5A	FALSE	FALSE
ILMN_1811702	GRN	FALSE	FALSE
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ILMN_1747759	NA	FALSE	FALSE

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ILMN_2334210	ITGB4	FALSE	FALSE
ILMN_2145116	TMEM173	FALSE	FALSE
ILMN_1710622	DUOXA1	TRUE	FALSE
ILMN_2360415	PRNP	FALSE	FALSE
ILMN_1655614	DSP	FALSE	FALSE
ILMN_1685574	TSC22D2	FALSE	FALSE
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ILMN_1673356	FAM83C	FALSE	FALSE
ILMN_2228732	CCNG2	FALSE	FALSE
ILMN_1796490	GRINA	FALSE	FALSE
ILMN_1710325	SCEL	FALSE	FALSE
ILMN_1655468	DSG3	FALSE	FALSE
ILMN_1713638	NIPAL4	FALSE	FALSE
ILMN_2207363	RABAC1	FALSE	FALSE
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ILMN_1721732	GSDMC	FALSE	FALSE
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ILMN_1758272	MYPN	FALSE	FALSE
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ILMN_1667626	EGLN3	FALSE	FALSE
ILMN_1655261	ERP27	FALSE	FALSE
ILMN_2062468	IGFBP7	FALSE	FALSE
ILMN_2169439	ITGAV	FALSE	FALSE
ILMN_2380418	BICD2	FALSE	FALSE
ILMN_1699809	CAPNS2	FALSE	FALSE
ILMN_2134538	FTH1	FALSE	FALSE
ILMN_2073235	FTH1	FALSE	FALSE
ILMN_1716815	CEACAM1	FALSE	FALSE
ILMN_1653161	SNCG	FALSE	FALSE
ILMN_1792265	TRIM4	FALSE	FALSE
ILMN_2313730	RHOC	TRUE	FALSE
ILMN_1684873	ARSD	FALSE	TRUE
ILMN_2073446	C1orf116	FALSE	FALSE
ILMN_1746525	FTH1	FALSE	FALSE
ILMN_1790228	FURIN	FALSE	FALSE
ILMN_1750278	FTH1	FALSE	FALSE
ILMN_1785852	NABP1	FALSE	FALSE
ILMN_2309156	PMEPA1	FALSE	TRUE
ILMN_2184612	C3orf52	FALSE	FALSE
ILMN_2232463	ARL14	FALSE	FALSE
ILMN_2319910	DGKA	TRUE	FALSE
ILMN_1698772	NA	FALSE	FALSE
ILMN_1651832	EHD1	FALSE	FALSE

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ILMN_1700268	QPRT	FALSE	FALSE
ILMN_1684306	S100A4	FALSE	FALSE
ILMN_1774901	GDPD3	FALSE	FALSE
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ILMN_1725312	RASA1	FALSE	FALSE
ILMN_2376313	MSMB	FALSE	FALSE
ILMN_1723912	IFI44L	FALSE	FALSE
ILMN_1764690	NTS	FALSE	FALSE
ILMN_2381257	DSC2	FALSE	FALSE
ILMN_1724250	GRN	FALSE	FALSE
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ILMN_2384122	GPR56	FALSE	FALSE
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ILMN_2167416	MR1	FALSE	TRUE
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ILMN_1699695	TNFRSF21	FALSE	FALSE
ILMN_2180885	CWH43	FALSE	FALSE
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ILMN_1771261	SYNC	FALSE	FALSE
ILMN_1737163	SH3BGRL3	FALSE	FALSE
ILMN_1676336	NCEH1	FALSE	FALSE
ILMN_1652280	FBXO32	FALSE	FALSE
ILMN_2173835	FTH1P3	FALSE	FALSE
ILMN_2384745	PSG4	FALSE	FALSE
ILMN_1757406	HIST1H1C	FALSE	FALSE
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ILMN_1776936	KANK4	FALSE	TRUE
ILMN_2353633	EMR2	FALSE	FALSE
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ILMN_1718268	GJB4	FALSE	FALSE
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ILMN_2415748	WSB1	FALSE	FALSE
ILMN_1655930	ELL2	FALSE	FALSE
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ILMN_2090802	TMEM79	FALSE	FALSE
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ILMN_2381899	OPTN	FALSE	FALSE
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ILMN_1696911	FTH1	FALSE	FALSE
ILMN_1721134	TGM1	FALSE	FALSE
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ILMN_2317923	TMEM132A	FALSE	FALSE
ILMN_1659215	CYP4B1	FALSE	FALSE
ILMN_1705750	TGM2	TRUE	TRUE
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ILMN_1736829	MDM2	FALSE	FALSE
ILMN_1691376	JAG1	FALSE	FALSE
ILMN_1799848	ANKRD22	FALSE	FALSE
ILMN_1709870	HES2	FALSE	FALSE
ILMN_1712522	CEACAM6	FALSE	FALSE
ILMN_1731215	MYBPHL	FALSE	FALSE
ILMN_1803277	MVP	FALSE	FALSE
ILMN_1747451	PLCXD1	FALSE	FALSE
ILMN_1688780	S100A4	FALSE	FALSE
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ILMN_1769388	GJB2	FALSE	FALSE
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ILMN_1712632	XDH	FALSE	FALSE
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ILMN_1733998	DHRS9	FALSE	FALSE
ILMN_1811479	SPINK6	FALSE	FALSE
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ILMN_1796179	HIST1H2BK	FALSE	FALSE
ILMN_3241554	KANK4	FALSE	FALSE
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ILMN_3227315	FTH1	FALSE	FALSE
ILMN_3248032	NCCRP1	FALSE	FALSE
ILMN_2329927	ABCG1	FALSE	FALSE
ILMN_1791280	HSPB8	FALSE	FALSE
ILMN_1657111	AHNAK2	TRUE	FALSE
ILMN_1713397	NCCRP1	FALSE	FALSE
ILMN_1672148	AKR1B10	FALSE	FALSE
ILMN_2376723	CDKN2B	TRUE	FALSE
ILMN_2347798	IFI6	FALSE	FALSE
ILMN_1743103	SH3PXD2A	TRUE	FALSE
ILMN_1667295	VASN	TRUE	FALSE
ILMN_1723198	CDKN2B	FALSE	FALSE
ILMN_1702503	ALDH3A1	FALSE	FALSE
ILMN_1742410	BCL2L1	FALSE	FALSE
ILMN_1714592	CDA	FALSE	FALSE
ILMN_2173291	CYP4B1	FALSE	FALSE
ILMN_1813314	HIST1H2BK	FALSE	FALSE
ILMN_1689037	LIPG	FALSE	FALSE
ILMN_2396875	IGFBP3	FALSE	FALSE
ILMN_1807206	DHRS1	FALSE	FALSE
ILMN_2063168	MALL	FALSE	FALSE
ILMN_1655348	GPR1	FALSE	FALSE
ILMN_1709307	GPSM1	TRUE	FALSE
ILMN_1658706	ST6GALNAC2	FALSE	TRUE
ILMN_1717793	C19orf33	FALSE	FALSE
ILMN_1779034	NADSYN1	FALSE	TRUE
ILMN_2197365	RGS2	FALSE	TRUE
ILMN_1734276	PMEPA1	FALSE	TRUE
ILMN_1663042	SDC4	TRUE	TRUE
ILMN_1758938	SLC31A2	FALSE	FALSE
ILMN_1785202	STAT4	FALSE	FALSE
ILMN_1767685	SERPINB7	FALSE	FALSE
ILMN_1806030	PPL	FALSE	FALSE
ILMN_2404688	NUPR1	FALSE	TRUE
ILMN_2083946	TGFA	FALSE	FALSE
ILMN_1712545	S100A3	FALSE	FALSE
ILMN_1805175	TGFA	FALSE	FALSE
ILMN_1793888	SERPINB5	FALSE	FALSE
ILMN_1732609	FAM214B	TRUE	FALSE
ILMN_1775829	PERP	FALSE	FALSE
ILMN_1770940	CDH1	FALSE	FALSE

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ILMN_2188862	GDF15	FALSE	FALSE
ILMN_1735700	KLK8	FALSE	FALSE
ILMN_1661197	CLCF1	FALSE	FALSE
ILMN_1730454	FOLR3	FALSE	FALSE
ILMN_1805519	CD24	FALSE	FALSE
ILMN_2094266	HES2	FALSE	FALSE
ILMN_2395139	SERPINB7	FALSE	FALSE
ILMN_1812968	SOX18	FALSE	FALSE
ILMN_1699989	BNIP1	TRUE	FALSE
ILMN_1671703	ACTA2	FALSE	FALSE
ILMN_2390310	MIR22HG	FALSE	FALSE
ILMN_1763666	ALDH3B2	FALSE	FALSE
ILMN_1794782	ABCG1	FALSE	FALSE
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ILMN_1797776	PRSS23	FALSE	FALSE
ILMN_1711087	NA	TRUE	FALSE
ILMN_1739605	LYPD3	FALSE	FALSE
ILMN_2211018	SPRR2E	FALSE	FALSE
ILMN_1814305	SAMD9	FALSE	FALSE
ILMN_2404063	APP	TRUE	FALSE
ILMN_1676712	NA	FALSE	FALSE
ILMN_1735712	KRT1	FALSE	FALSE
ILMN_1775501	IL1B	FALSE	FALSE
ILMN_1806607	SFN	FALSE	FALSE
ILMN_3243156	AHNAK2	TRUE	FALSE
ILMN_1791545	KRT23	FALSE	FALSE
ILMN_1746085	IGFBP3	FALSE	FALSE
ILMN_2336609	SYTL2	FALSE	FALSE
ILMN_2148913	TMEM45A	FALSE	FALSE
ILMN_2412336	AKR1C2	FALSE	FALSE
ILMN_2149292	TMEM40	FALSE	FALSE
ILMN_1725852	S100A2	FALSE	FALSE
ILMN_1763000	ADAP2	FALSE	FALSE
ILMN_1753342	SAT1	FALSE	FALSE
ILMN_1651282	COL17A1	TRUE	FALSE
ILMN_1687757	NA	FALSE	FALSE
ILMN_1770085	BTG2	TRUE	FALSE
ILMN_1654262	ZMAT3	TRUE	FALSE
ILMN_2078592	ADTRP	FALSE	FALSE
ILMN_1697733	CST6	FALSE	FALSE
ILMN_1738546	NA	FALSE	FALSE
ILMN_2404065	APP	TRUE	FALSE
ILMN_2191967	SPRR2D	FALSE	FALSE
ILMN_1772627	NSG1	TRUE	FALSE

ILMN_1651574	AQP3	FALSE	FALSE
ILMN_1744212	INPP5D	FALSE	FALSE
ILMN_1673191	S100A7A	FALSE	FALSE
ILMN_1665035	KRT14	FALSE	FALSE
ILMN_1680110	ADIRF	TRUE	FALSE
ILMN_1805665	FLRT3	TRUE	FALSE
ILMN_1779147	ENC1	FALSE	FALSE
ILMN_2406035	LAMA3	FALSE	FALSE
ILMN_1700583	ZNF750	TRUE	FALSE
ILMN_1713124	AKR1C3	FALSE	FALSE
ILMN_2139970	ALDH1A3	FALSE	FALSE
ILMN_1796423	CLIC3	FALSE	FALSE
ILMN_1701424	LAMC2	FALSE	FALSE
ILMN_1712082	GCNT3	FALSE	FALSE
ILMN_2214197	TP53INP1	TRUE	FALSE
ILMN_1654118	BCL2L1	FALSE	FALSE
ILMN_1770922	TMEM45A	FALSE	FALSE
ILMN_1797704	NA	FALSE	FALSE
ILMN_1751120	HIST1H4H	FALSE	FALSE
ILMN_1727589	SULT2B1	FALSE	FALSE
ILMN_1666845	KRT17	FALSE	FALSE
ILMN_1771538	PSCA	FALSE	FALSE
ILMN_1769759	SERPINB13	FALSE	FALSE
ILMN_1714108	TP53INP1	TRUE	FALSE
ILMN_1658483	IL1A	FALSE	FALSE
ILMN_1729216	CRYAB	FALSE	FALSE
ILMN_1774874	IL1RN	FALSE	FALSE
ILMN_1724686	CLDN1	FALSE	FALSE
ILMN_1758623	HIST1H2BD	FALSE	FALSE
ILMN_1807439	ALDH1A3	FALSE	FALSE
ILMN_2121408	HBEGF	FALSE	TRUE
ILMN_1686573	DEFB1	FALSE	FALSE
ILMN_1780255	KLK6	FALSE	FALSE
ILMN_1692223	LCN2	FALSE	FALSE
ILMN_3242166	KRT16	FALSE	FALSE
ILMN_2067656	CCND2	FALSE	TRUE
ILMN_1784602	CDKN1A	FALSE	FALSE
ILMN_1653934	KRT17	FALSE	FALSE
ILMN_1814270	LY6D	FALSE	FALSE
ILMN_1792689	HIST1H2AC	FALSE	FALSE
ILMN_1784294	CPA4	FALSE	FALSE
ILMN_1706483	C1orf116	FALSE	FALSE
ILMN_1661708	NA	FALSE	FALSE
ILMN_3243690	NA	FALSE	FALSE
ILMN_1763011	SUGCT	FALSE	FALSE
ILMN_1732071	HIST2H2BE	FALSE	FALSE

ILMN_3195198	KRT17	FALSE	FALSE
ILMN_2064860	NA	FALSE	FALSE
ILMN_1768973	HIST2H2AC	FALSE	FALSE
ILMN_1651496	HIST1H2BD	TRUE	FALSE
ILMN_1775330	C15orf52	FALSE	FALSE
ILMN_2058782	IFI27	FALSE	FALSE
ILMN_2228162	KRT16	FALSE	FALSE
ILMN_3242900	NA	FALSE	FALSE
ILMN_1659047	NA	FALSE	FALSE
ILMN_1715684	LAMB3	TRUE	FALSE
ILMN_1658569	NA	FALSE	FALSE
ILMN_1740938	APOE	FALSE	FALSE
ILMN_1750748	KRT16P3	FALSE	FALSE
ILMN_2144426	NA	FALSE	FALSE
ILMN_1713813	KRT16P3	FALSE	FALSE
ILMN_1711174	SPRR1B	FALSE	FALSE
ILMN_1693192	PI3	FALSE	TRUE
ILMN_1736760	KRT16	FALSE	FALSE
ILMN_1721354	KRT6B	FALSE	FALSE

Supplementary Table S6. Primers and conditions used for qRT-PCR.

Gene symbol	Forward Primer (5' to 3')	Reverse Primer (5' to 3')	Reference/Supplier
ATL3	ACAGCCAGTCAACTGTGAAAG	CCAGACGACCGTATTCTGTGA	PrimerBank ID 45827805c1
PA2G4	ACAGGGTACTTCGGTCCTTG	ATGGCATCACCTTTCTCACAC	PrimerBank ID 124494253c2
GAPDH	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG	Vandesompele et al. [47]
YWHAZ	ACTTTTGGTACATTGTGGCTTCAA	CCGCCAGGACAAACCAGTAT	Vandesompele et al. [47]
RPL13	CCTGGAGGAGAAGAGGAAAGAGA	TTGAGGACCTCTGTGTATTTGTCAA	Vandesompele et al. [47]

Conditions used: 95°C for 2min; 40/45 cycles of 95°C for 15sec, 58°C for 20sec, 72°C for 15sec, 76°C for 5sec and read; final extension 78°C for 8min; followed by melting curve analysis from 65°C to 90°C to confirm product-specific amplification.

Supplementary Table S7. Antibodies used for western blotting.

Antibody	Manufacturer	Band size (kD)	Dilution used
Rabbit anti-ATL3	ABGENT	59	1:2000
Rabbit anti-PA2G4	GeneTex	48	1:20000
Mouse anti- β -actin	Thermo Scientific	42	1:150000
Polyclonal goat anti-rabbit	Dako		1:1000
Polyclonal goat anti-mouse	Dako		1:1000