

SUPPLEMENTARY METHODS

Cell culture. All experiments were performed using our chemically defined, serum- and lipid-free media that transiently supports *in vitro* activity of AML blasts (Pabst *et al.*, Nature methods, 2014, 11(4):436-442). Thawed AML cells were plated in 384-well plates at a density 5,000 cells per well in 50 μ L.

Compounds. Atorvastatin, simvastatin, lovastatin, fluvastatin and mevastatin were purchased from Abcam, rosuvastatin from BioVision Inc., pravastatin from Sigma and cytarabine and daunorubicin from TOCRIS. Compound stocks and 7 serial dilutions of each for total of 1000-fold range of concentrations were prepared in DMSO. Prior to addition to cells, compound stocks were diluted 100-fold in media such that the final DMSO concentration in cell culture did not exceed 0.1%. Cells treated with 0.1% DMSO (vehicle control) were used as negative controls.

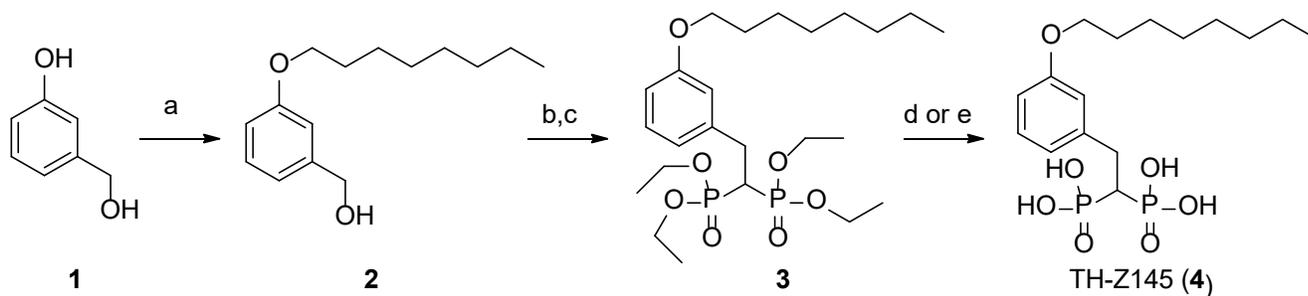
Chemical screens. In screen I, compounds from an in-house generated library of ~5000 compounds enriched for clinically approved drugs including statins were tested at a single concentration of 2.5 μ M, and cell viability was assessed with the CellTiterGlo assay (Promega, Madison, WI, USA) after 6 days of treatment. Percentages of inhibition of cell viability were calculated as follows: $100 - (100 \times (\text{average signal in compound-treated wells}) / (\text{average signal in DMSO-treated wells}))$. In other screens, compounds were tested in dose response using serial compound dilutions (ten 1:3 dilutions from 10 μ M to 0.5 nM) and cell viability after 6 days of incubation was also evaluated with the CellTiterGlo assay. IC50s were calculated using the ActivityBase SARview Suite (IDBS) and GraphPad Prism 4.03.

CRISPR/Cas9-based genetic screening: The Extended Knockout (EKO) pooled lentiviral library was introduced in the NALM-6 cells line along with a doxycycline-inducible Cas9. At the beginning of the experiment (day 0) Cas9 was induced with 2 mg/mL doxycycline for 7 days to induce gene knockouts (day 7) after which time cells were treated with DMSO or 150nM cerivastatin (IC40) for 8 days additional days (day 15). Genomic DNA was then extracted from day 15 DMSO and cerivastatin treated cells along with day 7 untreated cells using the QIAamp DNA blood maxi kit (Qiagen). sgRNA sequences were recovered and fitted with Illumina adaptors by PCR, and NGS was performed on an Illumina NextSeq 500 device (IRIC's genomic platform, Montreal, Quebec, Canada). Synthetic rescue scores were determined using the RANKS algorithm using sgRNA read numbers for the cerivastatin-treated sample at day 15 compared to day 7 untreated cells, whereas synthetic lethal scores were calculated using the RANKS algorithm by comparing cerivastatin- and DMSO-treated samples at day 15. Additional details related to the experiment and to the RANKS algorithm can be found in Bertomeu *et al.*, Mol Cell Biol, 2018 and Baccelli *et al.*, Cancer Cell, 2019.

Validation experiments with shRNAs. Lentiviral vectors were generated by cloning the selected hairpin containing templates in the L-T3-GUPR vector carrying puromycin resistance gene and tetracyclin-inducible green fluorescent protein (GFP). Vector carrying shRNA targeting luciferase was used as a control. Production of lentiviral particles and infection of OCI-AML5 cells were performed as described (Baccelli *et al.*, Cancer Cell, 2019, 36(1):84-99). Infected cells were

selected and expanded in media containing 2 µg/ml of Puromycin, and shRNA expression was induced by treatment of the transduced cells with 2 µg/ml of doxorubicin. Efficiency of knockdown was assessed after 1 day of induction by quantitative RT-PCR. Effect of knockdown on atorvastatin sensitivity was evaluated in dose response assays performed in media supplemented with 10% BIT, 5 ng/ml GM-CSF, 2 µl/ml puromycin and 2 µl/ml doxocyclin. Cell viability after 4-day exposure to DMSO or atorvastatin was evaluated using CellTiter Glo (Promega).

TH-Z145 compound synthesis. TH-Z145 was prepared according to the following synthetic sequence. First, 3-hydroxymethyl phenol (1) was selectively alkylated with 1-bromooctane and the resulting octyl ether (2) was transformed in two steps into the TH-Z145 (4) bisphosphonate tetraethyl ester. The benzyl alcohol was first transformed to the benzyl bromide which, after purification by chromatography on silica gel, was reacted with the sodium anion of tetraethyl methylene bisphosphonate to afford homobenzylic bisphosphonate tetraethyl ester (3). The bisphosphonic acid TH-Z145 (4) was then obtained by treating the ester with concentrated hydrochloric acid at 100 °C overnight and injecting the cooled and diluted mixture into a reverse-phase preparative HPLC instrument. Alternatively, the tetra-ester was treated with TMSBr for 16 h, and upon a hydrolysis work-up, the sample was freeze-dried to give TH-Z145 without the need for further purification.



Next-generation sequencing. RNA isolation, preparation of cDNA libraries and sequencing of primary AML specimens of the Leucegene cohort as well as normal blood and bone marrow cell populations were performed as described (Lavallée *et al.*, Nature genetics, 2015, 47(9):1030-1037). The RNA sequencing data is available at GEO or in the Leucegene website (leucegene.ca/research/resources).

Statistics. Analyses were performed using GraphPad Prism V4.03. Significance of the difference between median IC₅₀ values were tested using Mann-Whitney test. Fisher exact test was used to analyze sample term enrichment. Correlation between compound responses was evaluated using Spearman's rank-order correlation test. Gene set enrichment analyses were performed using the GSEA 4.1.0 software from the Broad Institute.

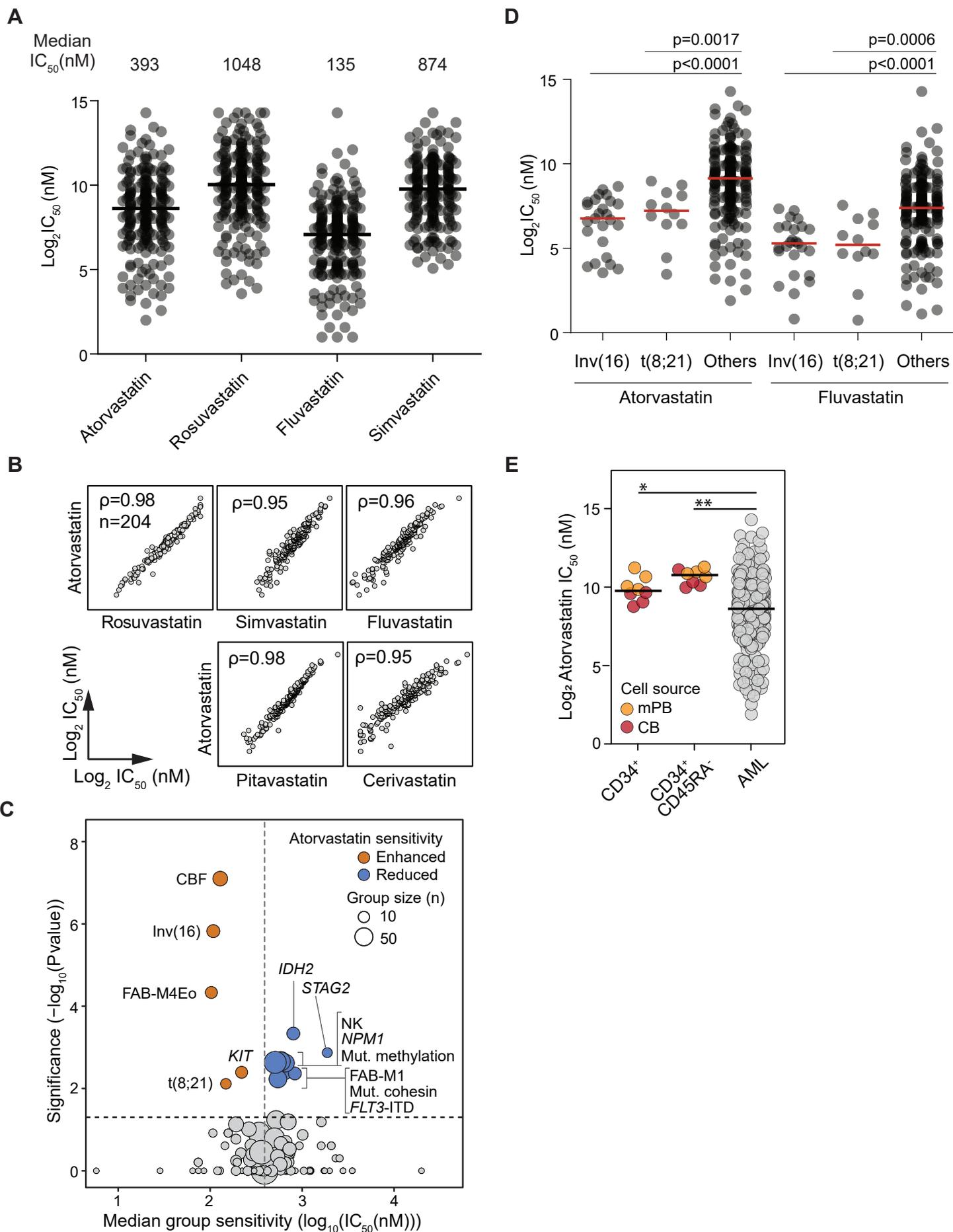


Figure S1. A) Sensitivity of primary human AML specimens ($n=204$) to indicated statins. Median IC_{50} for each statin is represented by a black bar. B) Correlation between statin IC_{50} values determined for the 204 specimens. ρ : Spearman correlation coefficient. C) Contribution of mutations, clinical and morphological characteristics to statin sensitivity of AML cells. Vertical dotted line: median atorvastatin IC_{50} value determined for 205 AML specimens (393 nM). Horizontal dotted line: demarcation of significance ($p=0.05$). CBF: core-binding factor, FAB: French-American-British classification, NK: normal karyotype, ITD: internal tandem duplication, Mut. Methylation: mutations in genes implicated in methylation. D) Atorvastatin and fluvastatin sensitivity of primary human AML specimens from indicated cytogenetic subgroups. Median IC_{50} for each AML subgroup is represented by a red bar. E) Atorvastatin response of normal mobilized peripheral blood (mPB)- and cord blood (CB)-derived CD34⁺ and CD34⁺CD45RA⁻ cells. * $p<0.05$, ** $p<0.001$

Drug combination	Cell line	Mean Bliss score	Mean HSA score	Mean Loewe score	Mean ZIP score
Atorvastatin + TH-Z145	AML3	16.42477	12.51586	12.53856	15.98080
Atorvastatin + TH-Z145	AML5	12.57265	13.84423	6.07595	13.36656
Cytarabine + TH-Z145	AML3	0.63513	-0.05893	-1.97478	-2.24044
Cytarabine + TH-Z145	AML5	-4.23565	-1.55180	-4.03980	-6.50716

Figure S2. Mean synergy scores for the atorvastatin/TH-Z145 and cytarabine/TH-Z145 combinations using the Bliss, HSA, Loewe and ZIP methods in indicated AML cell lines.

GENE SET	NES	FDR
Golgi vesicle transport	3.90	<0.001
Endoplasmic reticulum to golgi vesicle mediated transport	3.78	<0.001
Vesicle targeting	3.41	<0.001
Vesicle targeting to from or within golgi	3.39	<0.001
COPII coated vesicle budding	3.36	<0.001
Intra golgi and retrograde golgi to ER traffic	3.35	<0.001
Golgi vesicle budding	3.34	<0.001
Vesicle budding from membrane	3.23	<0.001
COPII mediated vesicle transport	3.20	<0.001
Vesicle localization	3.05	<0.001
Membrane trafficking	3.02	<0.001
Vesicle organization	2.97	<0.001
Vesicle mediated transport	2.92	<0.001
Transport vesicle	2.85	<0.001
COPII coated ER to golgi transport vesicle	2.73	<0.001
Transport vesicle membrane	2.67	0.0014
Golgi associated vesicle	2.61	0.0025
Golgi associated vesicle membrane	2.59	0.0027
ER to golgi transport vesicle membrane	2.55	0.0039
Vesicle tethering complex	2.40	0.0138
Regulation of cholesterol biosynthetic process	2.39	0.0150
Retrograde vesicle mediated transport golgi to endoplasmic reticulum	2.39	0.0151
Regulation of cholesterol biosynthesis by SREBP SREBF	2.26	0.0407

Figure S3. Gene set enrichment analysis of genes targeted by sgRNAs showing synthetic lethal interaction with statin treatment. GSEA analysis was performed with the GSEA 4.1.0 software from the Broad Institute using a list of genes ordered based on RANKS score. Shown are gene sets related to vesicular transport and cholesterol homeostasis with NES >2.0 and FDR < 0.05.

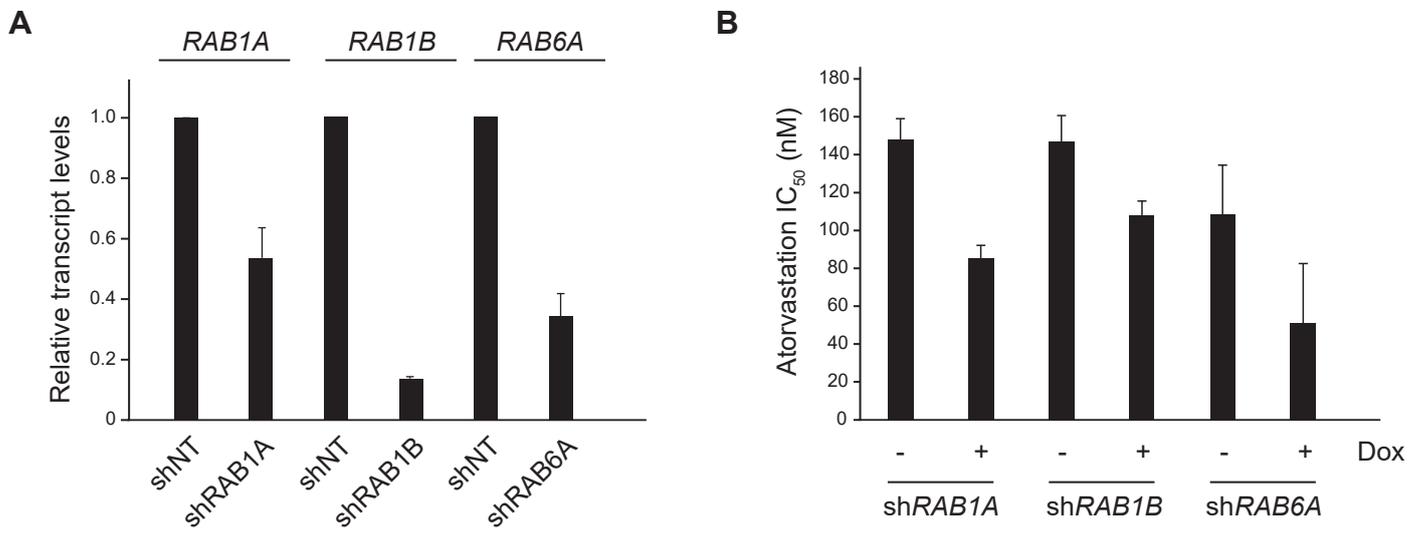


Figure S4. A) Knockdown levels achieved in OCI-AML5 cells by shRNAs targeting indicated genes. Results from 3 different shRNAs producing similar knockdown levels are shown for each gene with standard error of the mean. B) Impact of shRNA-mediated silencing of indicated genes on atorvastatin IC₅₀ in OCI-AML5 cells in the absence of shRNA expression induction (- Dox) or upon shRNA expression induction (+ Dox). The average IC₅₀ is shown for 3 different shRNAs (A) with standard error of the mean.

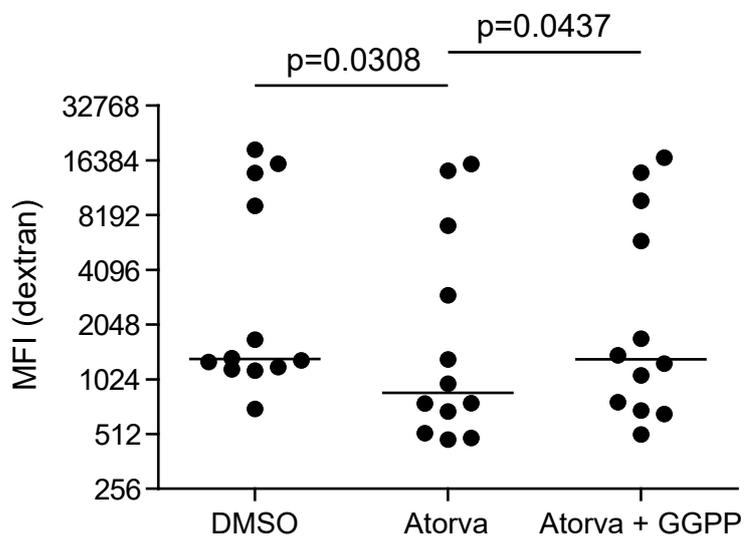


Figure S5. MFI of dextran signal in primary human AML specimens treated with DMSO, atorvastatin or atorvastatin + GGPP (geranylgeranyl pyrophosphate) in endocytosis assay determined by flow cytometry. Black bars indicate medians. n=12 primary human specimens. p values were calculated with paired t test.

Table S1. Clinical annotations for all AML specimens tested.

Screen #				AML#	Cytogenetic group	WHO 2008	FAB	WBC (x10 ⁹ /l)	Blasts (%)	Age	Sex
I	II	III	Combi								
		X		02H003	Inter. abn.	AML with minimal differentiation	M0	70	99	57	F
		X		02H009	NK	AML without maturation	M1	106	82	21	F
			X	02H017	MLL translocations	AML with minimal differentiation	M0	51.1	96	50	F
		X		02H033	MLL translocations	Acute monoblastic and monocytic leukaemia	M5A	65	48	67	M
X	X			02H060	Inter. abn.	AML without maturation	M1	108	92	84	M
		X		02H066	NK	AML without maturation	M1	125	95	53	F
		X		03H016	NK	Acute monoblastic and monocytic leukaemia	M5A	38	90	48	M
		X		03H052	NK	Acute monoblastic and monocytic leukaemia	M5B	53.8	62	57	M
		X		03H065	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M2	12.7	25	33	M
	X	X		03H095	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	19.3	60	17	F
	X	X		03H109	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	182	92	29	M
	X	X		03H112	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	172	80	36	M
		X		03H116	NK	AML without maturation	M1	223	97	55	F
		X		03H119	NK	AML without maturation	M1	6.4	92	68	M
		X		04H024	NK	AML without maturation	M1	231	76	45	F
		X		04H025	NK	AML without maturation	M1	1.6	69	69	M
X	X	X		04H030	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	17	50	50	M
		X		04H041	MLL translocations	Acute monoblastic and monocytic leukaemia	M5B	17.9	75	65	M
		X		04H048	Inter. abn.	AML with myelodysplasia-related changes	M1	14.3	90	55	M
		X		04H061	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	32	72	69	F
		X		04H068	NK	AML with maturation	M2	25.4	80	63	F
		X		04H078	NK	Acute myeloid leukaemia, NOS	Not classifiable by FAB	17.2	73	68	M
		X		04H101	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	15	30	67	M
		X		04H103	Inter. abn.	AML without maturation	M1	152	80	64	M
X	X	X		04H108	NK	AML without maturation	M1	83.6	94	70	F
		X		04H112	NK	AML without maturation	M1	361	91	64	F
X	X	X		04H115	CK	AML with myelodysplasia-related changes	M5A	1.1	86	71	M
		X		04H120	Monosomy 5/5q 7/7q	AML with myelodysplasia-related changes	M1	10.5	90	37	M
X	X	X		04H132	CK	AML with myelodysplasia-related changes	M4	161	48	46	M
		X		04H133	NK	AML without maturation	M1	60.3	91	62	F
		X		04H135	Inter. abn.	AML without maturation	M1	30.8	91	78	M
		X		04H140	NK	Acute myelomonocytic leukaemia	M4	128	80	61	F
		X		05H008	NK	AML without maturation	M1	327	96	26	F
		X		05H025	MLL translocations	AML with t(9;1)(p22;q23); MLLT3-MLL	M5A	71.5	77	23	F
X	X	X		05H030	NK	AML without maturation	M1	90	84	55	F
		X		05H034	Monosomy 5/5q 7/7q	AML with myelodysplasia-related changes	M1	290	73	47	M
X	X			05H042	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M2	18.2	65	37	M
		X		05H050	NK	Acute myelomonocytic leukaemia	M4	80.6	94	61	M
		X		05H066	MLL translocations	Acute myelomonocytic leukaemia	M4	26.6	75	26	F
X	X			05H094	NK	Acute monoblastic and monocytic leukaemia	M5B	98.1	94	35	M
		X		05H111	NK	AML without maturation	M1	37.9	75	56	M
X	X	X		05H113	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	20.1	80	63	F
		X		05H118	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M2	6.7	38	24	F
X	X	X		05H136	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	40.5	44	66	M
		X		05H149	NK	Acute myeloid leukaemia, NOS	M1	30.5	80	55	M
		X		05H163	NUP98-NSD1	AML without maturation	M1	136	86	20	M
		X		05H181	NK	Acute monoblastic and monocytic leukaemia	M5	77.3	80	65	F
		X		05H184	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M1	31.3	90	48	M
		X		05H195	NK	AML without maturation	M1	85.6	95	43	F
X	X	X		06H004	CK	Acute myeloid leukaemia, NOS	Not classifiable by FAB	321	44	59	F
		X		06H010	NK	Acute monoblastic and monocytic leukaemia	M5	45.5	84	59	F
		X		06H011	NK	Acute myeloid leukaemia, NOS	Not classifiable by FAB	44.2	71	65	F
		X		06H014	Monosomy 5/5q 7/7q	AML with myelodysplasia-related changes	M2	1.5	40	75	F
X	X	X		06H020	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	76.7	51	40	M
		X		06H021	NK	AML with maturation	M2	68.2	55	49	F
		X		06H028	NK	AML without maturation	M1	282	95	70	F
		X		06H035	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	Not classifiable by FAB	94.1	25	45	M
X	X			06H045	Inter. abn.	AML with maturation	M2	16.6	70	30	F
		X		06H048	Trisomy/tetrasomy 8	Acute myelomonocytic leukaemia	M4	26	29	56	F
		X		06H066	MLL translocations	AML with myelodysplasia-related changes	Not classifiable by FAB	2.9	82	55	F
		X		06H073	MLL translocations	Acute monoblastic and monocytic leukaemia	M5A	7.3	89	51	M
		X		06H074	CK	AML with myelodysplasia-related changes	M5A	16	50	67	M
		X		06H075	CK	AML with myelodysplasia-related changes	M2	1.8	40	65	M
		X		06H077	MLL translocations	Acute myeloid leukaemia, NOS	Not classifiable by FAB	50	88	36	F
X	X	X		06H088	MLL translocations	AML without maturation	M1	32.7	92	28	M
		X		06H089	Inter. abn.	AML without maturation	M1	43.5	79	58	M
		X		06H115	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M2	18	58	40	M
		X		06H117	MLL translocations	Acute myelomonocytic leukaemia	M4	87.4	85	58	M
		X		06H143	Inter. abn.	Acute myelomonocytic leukaemia	M4	153	50	73	M
		X		06H144	NK	AML without maturation	M1	56.1	90	71	F
		X		06H146	NK	AML with maturation	M2	61.9	68	45	M

	X	X	06H151	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M1	16.7	71	38	F
	X	X	07H003	MLL translocations	Acute myelomonocytic leukaemia	M4	46	65	25	F
		X	07H019	Trisomy/tetrasomy 8	Acute myelomonocytic leukaemia	M4	5.6	30	68	M
		X	07H034	CK	Acute erythroid leukaemia	M6A	10	18	62	M
X	X	X	07H042	NK	Acute myeloid leukaemia, NOS	Not classifiable by FAB	88.3	83	23	M
	X	X	07H045	MLL translocations	Acute monoblastic and monocytic leukaemia	M5A	36.5	80	31	F
		X	07H055	NK	Acute monoblastic and monocytic leukaemia	M5B	43.7	95	65	M
	X	X	07H062	NK	AML without maturation	M1	172	90	58	M
X	X	X	07H069	Inter. abn.	Acute myeloid leukaemia, NOS	Not classifiable by FAB	80	85	55	M
		X	07H089	NK	Acute monoblastic and monocytic leukaemia	M5	76.5	85	37	F
	X	X	07H095	NK	Acute myelomonocytic leukaemia	M4	55.1	59	64	M
		X	07H098	Inter. abn.	AML with myelodysplasia-related changes	Not classifiable by FAB	11.4	64	31	M
X	X	X	07H099	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	Not classifiable by FAB	61.5	82	58	F
		X	07H106	NK	AML with myelodysplasia-related changes	M2	14.5	61	48	M
		X	07H117	NK	AML with myelodysplasia-related changes	M2	31.4	60	57	F
	X	X	07H125	NK	AML without maturation	M1	45.5	61	66	F
		X	07H134	NK	Acute monoblastic and monocytic leukaemia	M5	53.1	81	64	M
	X	X	07H135	NK	AML without maturation	M1	107	97	67	M
		X	07H137	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M1	23.3	92	71	F
X	X	X	07H144	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	447	74	53	M
		X	07H148	CK	AML with myelodysplasia-related changes	M2	27	26	68	F
		X	07H156	CK	AML with myelodysplasia-related changes	M2	49	44	62	M
		X	07H158	NK	AML without maturation	M1	169	92	67	M
X	X	X	07H160	MLL translocations	AML with myelodysplasia-related changes	M1	92.2	85	67	F
	X	X	08H018	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	19.9	41	65	M
	X	X	08H021	MLL translocations	AML with t(9;11)(p22;q23); MLLT3-MLL	M5A	97.2	89	60	M
		X	08H034	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M1	7.3	83	28	F
X	X	X	08H048	NK	AML without maturation	M1	128	96	45	M
	X	X	08H049	NUP98-NSD1	Acute monoblastic and monocytic leukaemia	M5B	69	78	69	M
	X	X	08H050	NK	AML with myelodysplasia-related changes	M2	33.9	57	45	M
	X	X	08H062	Inter. abn.	AML with maturation	M2	3.9	41	54	F
		X	08H063	Trisomy/tetrasomy 8	Acute monoblastic and monocytic leukaemia	M5A	76.8	83	76	M
	X	X	08H072	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M2	63.2	37	33	F
	X	X	08H081	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	53.7	53	39	F
		X	08H082	NK	AML without maturation	M1	103	95	43	F
	X	X	08H085	MLL translocations	Therapy-related myeloid neoplasms	M1	268	90	49	F
	X	X	08H089	NK	Acute monoblastic and monocytic leukaemia	M5	68.1	81	68	M
	X	X	08H099	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	105	41	75	M
		X	08H104	NK	Acute monoblastic and monocytic leukaemia	M5B	49.3	60	65	M
	X	X	08H108	Trisomy/tetrasomy 8	Acute monoblastic and monocytic leukaemia	M5A	83.9	75	72	M
X	X	X	08H112	NK	AML with myelodysplasia-related changes	Not classifiable by FAB	28.3	85	52	M
	X	X	08H113	NK	AML without maturation	M1	36.6	88	53	M
X	X	X	08H118	EVI1 rearrangements	AML with myelodysplasia-related changes	M0	45.9	87	73	F
		X	08H137	Monosomy 5/5q 7/7q	AML with myelodysplasia-related changes	Not classifiable by FAB	10.2	35	78	F
	X	X	08H139	MLL translocations	Acute monoblastic and monocytic leukaemia	M5A	36.5	92	70	M
		X	09H002	NK	AML without maturation	M1	82.6	94	60	F
		X	09H008	NK	Acute monoblastic and monocytic leukaemia	M5A	65.4	58	67	M
		X	09H010	MLL translocations	AML with t(9;11)(p22;q23); MLLT3-MLL	M5A	1.8	93	20	M
		X	09H013	NK	AML with myelodysplasia-related changes	M4	16.6	60	50	M
	X	X	09H016	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	61.7	66	64	F
X	X	X	09H018	MLL translocations	AML with myelodysplasia-related changes	M0	102	86	56	M
		X	09H022	Inter. abn.	AML without maturation	M1	21.1	88	45	F
X	X	X	09H031	NK	AML without maturation	M1	48.9	85	54	F
		X	09H032	MLL translocations	AML with t(9;11)(p22;q23); MLLT3-MLL	M5A	50	94	54	M
		X	09H040	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M1	26.5	60	35	M
		X	09H042	NK	Acute monoblastic and monocytic leukaemia	M5B	223	75	52	F
		X	09H043	NK	AML without maturation	M1	33.2	80	53	M
X	X	X	09H046	Monosomy17/del17p	Therapy-related myeloid neoplasms	Not classifiable by FAB	52	77	37	M
X	X	X	09H054	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	80.3	63	54	F
		X	09H057	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	31.4	60	62	M
		X	09H058	NK	AML with maturation	M2	63.1	74	71	F
	X	X	09H066	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4	20.7	64	68	M
		X	09H078	CK	AML with myelodysplasia-related changes	M1	4.7	34	58	F
		X	09H083	NK	AML without maturation	M1	65.3	94	63	F
		X	09H088	Inter. abn.	AML without maturation	M1	7.1	81	43	F
		X	09H094	Inter. abn.	AML with myelodysplasia-related changes	Not classifiable by FAB	42.4	76	68	F
	X	X	09H106	NK	Acute monoblastic and monocytic leukaemia	M5B	90	81	74	M
		X	09H111	NK	Acute monoblastic and monocytic leukaemia	M5B	46.8	80	59	F
X	X	X	09H113	NK	AML without maturation	M1	68.7	95	56	M
		X	10H001	Inter. abn.	AML with myelodysplasia-related changes	M2	3.8	60	29	M
	X	X	10H007	Hyperdiploid numerical	Acute myelomonocytic leukaemia	M4	32.5	68	63	F
	X	X	10H008	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	75.8	60	37	M
	X	X	10H014	CK	AML with myelodysplasia-related changes	M0	1.3	72	77	M
	X	X	10H026	NK	Acute monoblastic and monocytic leukaemia	M5	103	85	56	F
		X	10H030	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M2	4.3	32	59	M
	X	X	10H031	MLL translocations	Acute monoblastic and monocytic leukaemia	M5B	202	73	25	F
		X	10H034	CK	AML with myelodysplasia-related changes	M2	15.1	38	65	M
		X	10H038	NUP98-NSD1	AML with minimal differentiation	M0	148	91	67	F
	X	X	10H040	Inter. abn.	AML with myelodysplasia-related changes	M1	4.3	78	68	M

		X	10H051	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	1.5	30	39	M
		X	10H056	NK	AML without maturation	M5B	6.3	83	57	F
		X	10H063	EV11 rearrangements	AML with myelodysplasia-related changes	M4	138	40	41	F
		X	10H072	NK	Acute monoblastic and monocytic leukaemia	M5	23.5	77	69	M
		X	10H078	CK	Acute myelomonocytic leukaemia	M4	124	30	66	M
		X	10H089	NK	Acute myeloid leukaemia, NOS	Not classifiable by FAB	4	80	49	F
		X	10H092	NK	AML without maturation	M1	81.7	90	69	F
	X	X	10H095	NK	AML without maturation	M1	52	91	65	F
	X	X	10H101	NK	AML with myelodysplasia-related changes	M2	24.5	70	49	F
X	X	X	10H109	Inter. abn.	AML without maturation	M1	318	94	65	F
		X	10H119	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M2	19.7	35	36	M
		X	10H127	MLL translocations	AML with t(9;11)(p22;q23); MLLT3-MLL	M5A	162	92	36	M
	X	X	10H166	NK	Acute myeloid leukaemia, NOS	Not classifiable by FAB	226	89	63	M
		X	10H173	Inter. abn.	Acute myeloid leukaemia, NOS	Not classifiable by FAB	5.8	68	74	M
		X	10H174	CK	AML with myelodysplasia-related changes	M4	113	70	59	F
	X	X	11H006	NK	Acute monoblastic and monocytic leukaemia	M5A	33	94	26	F
X	X		11H008	Inter. abn.	AML with myelodysplasia-related changes	Not classifiable by FAB	86.2	75	76	M
		X	11H017	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	20.3	56	35	M
	X	X	11H022	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	35.8	43	47	F
		X	11H058	NK	AML without maturation	M1	1.6	90	58	M
		X	11H072	NK	AML with maturation	M2	32.2	80	52	F
		X	11H083	NK	Acute monoblastic and monocytic leukaemia	M5A	77.1	80	52	M
		X	11H103	CK	AML with myelodysplasia-related changes	M1	11.5	70	65	M
	X	X	11H104	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	9.6	63	56	M
		X	11H126	NK	Acute monoblastic and monocytic leukaemia	M5B	12.9	68	74	M
X	X	X	11H129	Inter. abn.	AML without maturation	M1	323	95	62	M
		X	11H140	CK	AML with myelodysplasia-related changes	M2	5	36	54	F
X	X	X	11H151	NK	AML without maturation	M1	53.3	78	61	M
		X	11H157	NK	Acute myelomonocytic leukaemia	M4	56.7	70	62	M
	X	X	11H160	NUP98-NSD1	Acute myelomonocytic leukaemia	M4	207	65	36	F
		X	11H170	CK	AML with myelodysplasia-related changes	M0	50.5	94	51	F
		X	11H177	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	4.4	34	74	F
	X	X	11H179	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	16.4	47	22	M
		X	11H187	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	2	60	87	F
		X	11H192	Inter. abn.	Acute monoblastic and monocytic leukaemia	M5A	17.4	84	68	M
		X	11H217	Inter. abn.	AML with myelodysplasia-related changes	Not classifiable by FAB	13.9	70	63	M
		X	11H231	NK	Acute myeloid leukaemia, NOS	Not classifiable by FAB	7.7	80	50	M
		X	11H234	NK	AML with maturation	M2	61.2	55	44	M
		X	12H007	NK	AML with myelodysplasia-related changes	Not classifiable by FAB	67.2	71	27	F
	X	X	12H010	NK	Acute myeloid leukaemia, NOS	M1	60.7	85	65	M
		X	12H021	NK	AML without maturation	M1	13.6	82	59	M
X	X	X	12H030	Inter. abn.	AML with minimal differentiation	M0	160	93	78	M
		X	12H039	Inter. abn.	AML without maturation	M1	16.4	84	63	M
	X	X	12H042	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	108	76	58	M
		X	12H044	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4	97	56	75	F
		X	12H055	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	7.2	79	22	M
		X	12H056	NK	AML without maturation	M1	48.7	89	62	M
		X	12H091	NK	AML without maturation	M1	15	81	62	F
	X	X	12H165	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	Not classifiable by FAB	59.3	65	56	M
		X	12H170	CK	AML with myelodysplasia-related changes	Not classifiable by FAB	10.3	57	60	F
		X	12H171	NK	AML without maturation	M1	86.7	95	67	F
		X	12H173	Inter. abn.	AML without maturation	M1	206	97	66	F
	X	X	12H175	NK	AML without maturation	M1	171	96	59	F
		X	12H180	t(8;21)	AML with t(8;21)(q22;q22); RUNX1-RUNX1T1	M2	7.3	48	38	M
		X	13H046	NK	Acute myelomonocytic leukaemia	M4	31	38	52	F
		X	13H053	NK	Acute myelomonocytic leukaemia	M4	19.8	80	60	F
		X	13H058	NK	AML with maturation	M2	74	80	44	M
		X	13H065	Inter. abn.	Acute myeloid leukaemia, NOS	Not classifiable by FAB	24.2	44	70	M
X	X	X	13H066	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	21.5	46	24	F
X			13H073	NK	AML without maturation	M1	357	97	87	F
		X	13H080	Inter. abn.	AML without maturation	M1	11.3	88	74	F
		X	13H110	NK	Acute myelomonocytic leukaemia	M4	16.9	64	70	F
		X	13H114	NK	AML with myelodysplasia-related changes	Not classifiable by FAB	68.4	83	58	M
		X	13H120	inv(16)	AML with inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11	M4Eo	54.7	25	35	M
		X	13H139	Inter. abn.	AML without maturation	M1	36.9	94	58	M
		X	13H150	CK	AML without maturation	M1	62	87	60	M
		X	13H185	Inter. abn.	Acute monoblastic and monocytic leukaemia	M5A	14.9	77	68	M
		X	13H186	Inter. abn.	Acute myelomonocytic leukaemia	M4	5.2	50	66	M
		X	14H007	NK	AML with maturation	M2	85.7	80	53	F
		X	14H012	Inter. abn.	AML with minimal differentiation	M0	9.1	82	65	M
		X	14H015	NK	Acute myelomonocytic leukaemia	M4	15.8	45	46	F
		X	14H017	Inter. abn.	AML without maturation	M1	6.1	86	60	F
		X	14H019	NK	AML with minimal differentiation	M0	19.5	96	42	M
		X	14H020	NK	AML without maturation	M1	7	88	49	F
		X	14H038	EV11 rearrangements	AML with inv(3)(q21q26.2) or t(3;3)(q21;q26.2); RPN1-EV11	Not classifiable by FAB	5.8	28	49	M

Inter.abn., intermediate abnormal karyotype with and without trisomy 8; CK, complex karyotype; NK, normal karyotype;WHO 2008, World Health Organization classification 2008; FAB, french-american-british classification; Prava, pravastatin response assays; Combi, cytarabine dose response assays in the presence of 20 nM atorvastatin

Table S2. Percent inhibition of cell viability achieved by 2.5µM atorvastatin and pravastatin for indicated specimens

AML#	% inhibition	
	Atorvastatin (2.5 µM)	Pravastatin (2.5 µM)
03H095	84.2	3.5
03H109	96.6	5.5
03H112	98.5	3.4
04H030	98.5	16.7
05H113	83.8	50.8
05H136	72.2	2.0
06H020	93.8	26.2
06H115	99.0	60.3
06H151	64.1	1.0
07H099	97.4	17.2
07H144	98.4	18.9
08H081	99.2	59.5
08H099	99.1	37.6
09H066	63.4	14.3
10H008	97.4	16.8
11H022	98.4	22.4
11H104	96.6	20.1
11H179	96.6	27.9
12H042	90.8	19.5
12H165	96.7	22.0
13H066	98.0	35.6
05H042	96.4	28.2
08H072	84.5	11.6
04H108	83.1	18.6
05H030	57.1	3.0
05H094	87.4	4.8
05H149	89.3	7.8
06H021	58.8	1.8
06H146	70.2	7.0
07H042	79.9	7.8
07H062	67.8	2.7
07H095	94.6	18.8
07H125	62.5	2.6
08H048	95.2	48.4
08H050	98.1	21.4
08H082	69.1	24.9
08H089	74.6	13.8
08H112	43.5	2.4
08H113	92.4	7.5
09H031	87.3	6.1
09H106	96.6	29.8
09H113	66.2	11.8
10H026	90.5	26.3
10H095	35.2	1.0
10H166	74.9	14.2
11H008	95.3	50.5
11H151	94.9	4.1
12H010	53.2	0.8
12H175	94.6	33.2
13H073	89.2	0.1
04H115	81.0	29.2
04H132	52.5	3.2
06H004	96.8	56.5
08H018	97.9	37.9
09H054	75.4	11.4
10H014	50.3	7.2
06H088	90.3	16.5
06H117	83.5	3.1
07H003	76.0	4.0
07H045	41.2	13.8
07H160	91.3	6.1
08H021	89.2	32.4
08H085	92.6	65.7
08H139	67.7	14.8
09H018	70.8	14.7
02H060	94.7	0.7
06H045	95.1	69.0
06H143	84.2	11.7
07H069	85.0	3.3
08H062	96.6	43.4
08H108	88.5	5.2
10H109	95.0	7.5
11H006	74.2	13.1
11H129	99.9	75.1
12H030	95.2	62.9
08H118	86.4	7.8
11H160	89.2	23.6
09H046	92.3	10.3

Table S3. IC50 of indicated statins for inhibition of cell viability of indicated specimens.

AML#	Cytogenetic group	Atorvastatin IC50	Rosuvastatin IC50	Fluvastatin IC50	Simvastatin IC50
02H033	CK	28.69	60.10	32.96	261.16
04H101	CK	254.34	680.87	38.91	501.99
04H115	CK	708.92	1289.97	219.71	1526.25
04H132	CK	2134.45	4954.46	499.95	3066.30
06H004	CK	38.92	128.59	14.31	193.94
06H074	CK	11.18	88.38	26.60	191.36
06H075	CK	757.89	1739.56	162.96	1377.37
07H034	CK	2002.83	6294.54	451.03	3008.36
07H148	CK	712.70	1746.91	139.20	851.90
07H156	CK	211.24	577.01	43.65	543.54
09H054	CK	3537.20	9499.14	1737.46	8132.80
09H057	CK	3011.77	8345.57	592.67	3297.64
09H078	CK	1127.38	3332.61	251.01	2307.50
10H007	CK	546.35	1203.97	113.93	1016.61
10H014	CK	1169.60	3051.73	387.98	2546.99
10H034	CK	782.40	1811.15	301.08	1797.21
10H051	CK	108.23	267.11	38.66	278.38
10H078	CK	23.74	307.81	35.03	79.04
10H174	CK	1199.71	3352.21	373.71	2284.12
11H017	CK	76.28	176.37	15.75	180.67
11H103	CK	177.00	861.73	38.72	100.38
11H140	CK	7877.92	12792.65	1357.41	8843.06
11H170	CK	2095.49	4998.95	676.75	2364.55
11H177	CK	95.86	272.96	26.61	241.20
11H187	CK	1615.44	3976.74	273.04	2344.19
12H055	CK	75.09	202.66	93.10	476.42
12H170	CK	11140.94	20000.00	2446.38	9519.01
13H150	CK	598.71	1179.34	164.68	997.58
08H118	EVI1 rearrangements	2087.97	5444.92	432.09	2538.79
10H063	EVI1 rearrangements	2189.92	6668.38	691.36	4834.41
14H038	EVI1 rearrangements	991.03	2019.66	181.43	1602.82
02H003	Intermediate abnormal	684.31	4141.93	688.58	2125.94
04H048	Intermediate abnormal	36.42	129.48	9.92	117.00
04H103	Intermediate abnormal	1226.82	2610.59	387.57	2717.54
04H135	Intermediate abnormal	1891.61	3900.69	534.41	4412.95
06H073	Intermediate abnormal	1622.42	5861.90	1031.21	6260.12
06H089	Intermediate abnormal	780.95	1888.19	163.88	1664.29
07H069	Intermediate abnormal	633.43	980.91	168.73	1312.13

08H062	Intermediate abnormal	306.06	1125.74	145.16	335.44
09H022	Intermediate abnormal	1736.34	4265.30	469.24	3220.76
09H088	Intermediate abnormal	237.46	970.14	91.25	746.25
09H094	Intermediate abnormal	1920.74	6213.12	403.26	2052.86
10H001	Intermediate abnormal	469.38	1082.08	102.17	862.84
10H040	Intermediate abnormal	27.40	81.61	9.83	101.29
10H109	Intermediate abnormal	589.67	1332.55	187.63	1072.78
10H173	Intermediate abnormal	580.68	1213.98	196.46	1144.85
11H129	Intermediate abnormal	16.59	60.21	7.78	69.01
11H192	Intermediate abnormal	268.33	667.84	95.65	685.26
11H217	Intermediate abnormal	4459.42	9459.57	812.36	4588.67
12H039	Intermediate abnormal	1769.34	5621.82	550.63	3057.91
12H173	Intermediate abnormal	1132.79	2575.49	405.97	3044.73
13H065	Intermediate abnormal	1250.67	3257.16	156.34	845.28
13H080	Intermediate abnormal	98.92	275.47	47.63	283.27
13H139	Intermediate abnormal	662.45	3445.99	172.19	796.59
13H185	Intermediate abnormal	15.24	26.62	9.06	56.52
13H186	Intermediate abnormal	382.68	1122.32	108.14	694.24
14H012	Intermediate abnormal	8.36	18.25	11.90	110.88
14H017	Intermediate abnormal	20000.00	20000.00	20000.00	20000.00
03H095	inv(16)	42.16	86.47	24.59	273.69
03H109	inv(16)	81.37	355.60	39.12	87.99
03H112	inv(16)	103.68	318.30	33.53	217.57
04H030	inv(16)	295.94	767.44	107.71	628.04
04H061	inv(16)	129.50	376.07	44.92	427.16
05H113	inv(16)	11.80	45.12	1.77	33.54
05H136	inv(16)	221.26	590.85	70.23	661.86
06H020	inv(16)	406.33	912.48	162.97	1437.71
06H115	inv(16)	64.94	213.64	28.77	231.95
06H151	inv(16)	133.63	565.24	35.10	119.44
07H099	inv(16)	96.66	299.27	29.04	301.61
07H144	inv(16)	289.64	674.44	117.01	964.00
08H081	inv(16)	15.06	45.08	6.76	82.48
08H099	inv(16)	198.92	664.57	78.75	429.84
09H016	inv(16)	214.62	655.86	80.36	507.58
09H066	inv(16)	192.18	476.10	75.61	658.22
10H008	inv(16)	22.04	75.14	10.50	102.65
11H022	inv(16)	13.69	26.41	10.51	104.81
11H104	inv(16)	17.07	56.12	4.98	43.82
11H179	inv(16)	238.07	617.72	69.27	535.23
12H042	inv(16)	83.60	265.38	32.23	249.18
12H044	inv(16)	160.48	361.28	42.10	369.86
12H165	inv(16)	357.19	858.61	151.16	901.61
13H066	inv(16)	16.56	61.04	8.19	101.56
13H120	inv(16)	108.92	373.64	40.99	373.91
04H041	MLL	849.32	2164.33	349.28	2292.54

05H025	MLL	224.29	1212.49	348.10	856.05
05H066	MLL	2017.50	6230.12	661.94	2165.68
06H066	MLL	86.25	187.58	12.28	173.10
06H117	MLL	676.52	1615.90	253.26	1838.92
07H045	MLL	127.58	343.15	64.27	327.64
07H160	MLL	5749.51	16383.19	2046.72	8913.05
08H021	MLL	47.79	116.89	24.66	195.74
08H139	MLL	661.56	1589.46	463.81	2563.74
09H032	MLL	392.96	1063.90	265.00	1563.53
10H031	MLL	133.83	467.20	122.52	719.21
10H127	MLL	211.00	541.46	138.22	721.02
09H010	MLL translocations	1165.27	3183.86	868.38	3139.04
09H018	MLL translocations	2802.70	7132.60	700.14	3312.34
04H120	Mono 5/5q- Mono 7/7q-	77.91	151.02	13.93	182.00
05H034	Mono 5/5q- Mono 7/7q-	344.02	784.42	59.33	673.12
06H014	Mono 5/5q- Mono 7/7q-	421.37	2557.97	135.03	633.63
08H137	Mono 5/5q- Mono 7/7q-	3005.64	10946.63	770.46	3282.25
02H009	NK	632.39	2087.16	151.53	996.72
02H066	NK	641.17	1875.67	242.47	1381.90
03H016	NK	294.80	789.99	88.69	845.41
03H052	NK	173.71	429.50	114.66	705.81
03H116	NK	348.24	789.14	140.50	1418.73
03H119	NK	9.10	20.45	2.55	76.57
04H024	NK	633.19	1366.94	189.37	1376.27
04H025	NK	510.25	1876.42	238.31	2030.74
04H068	NK	110.51	537.84	99.39	364.74
04H078	NK	608.81	1489.55	213.99	1607.52
04H108	NK	929.67	2845.05	401.13	2109.85
04H112	NK	1327.27	3821.05	273.92	2267.68
04H133	NK	154.36	399.38	26.85	414.96
04H140	NK	393.15	916.46	95.55	1118.71
05H008	NK	33.46	67.38	7.02	96.55
05H030	NK	2040.71	6645.68	558.00	3154.48
05H050	NK	183.98	447.51	38.73	488.07
05H094	NK	247.64	649.79	152.19	853.92
05H111	NK	4831.76	13414.91	1210.52	5781.44
05H163	NK	23.75	41.25	2.17	77.11
05H195	NK	2254.79	6755.45	443.33	3053.75
06H010	NK	1384.04	3527.54	335.82	1954.19
06H011	NK	756.15	2025.10	223.18	1565.52
06H021	NK	1034.12	3266.07	287.93	1696.63
06H028	NK	140.04	337.26	41.87	414.38
06H144	NK	3532.45	8445.40	994.45	7369.70
06H146	NK	1867.44	5679.00	560.31	3720.37
07H042	NK	362.73	984.68	100.88	873.95
07H055	NK	84.32	251.23	35.74	355.43
07H062	NK	929.41	3036.59	220.62	1447.67

07H089	NK	503.76	1739.94	117.39	1026.00
07H095	NK	365.57	919.03	102.47	897.48
07H106	NK	680.37	1993.40	166.46	1220.01
07H117	NK	395.57	1048.08	186.16	1363.40
07H125	NK	1722.89	5533.79	418.07	2229.64
07H134	NK	536.61	1100.25	184.56	1275.77
07H135	NK	9880.04	20000.00	4403.42	13485.36
07H158	NK	286.80	666.61	106.85	823.43
08H049	NK	458.01	916.10	199.88	1552.85
08H050	NK	224.49	682.35	87.42	733.93
08H089	NK	219.71	409.36	71.54	834.19
08H104	NK	792.30	1720.24	207.56	1436.88
08H112	NK	3306.16	10421.66	782.11	2913.35
09H002	NK	994.41	3081.46	221.43	632.74
09H008	NK	263.21	288.39	87.77	649.66
09H013	NK	589.58	1371.85	157.47	903.87
09H042	NK	1289.54	3706.70	276.05	1602.67
09H043	NK	764.86	2171.58	232.39	1267.10
09H058	NK	325.34	846.19	109.40	656.83
09H083	NK	6741.38	15903.83	1651.27	8754.98
09H111	NK	135.32	579.07	42.92	169.31
09H113	NK	941.28	2594.00	302.33	1923.04
10H026	NK	239.98	708.52	89.23	876.60
10H038	NK	455.59	945.90	122.73	921.36
10H056	NK	939.08	2692.41	141.77	2209.84
10H072	NK	39.71	63.60	29.94	415.21
10H089	NK	111.49	355.59	26.76	171.45
10H092	NK	549.15	1651.78	178.41	1122.56
10H095	NK	4031.12	20000.00	1116.51	7306.35
10H101	NK	258.12	783.60	85.88	530.89
10H166	NK	859.44	2342.91	246.34	1580.85
11H006	NK	512.89	1198.20	174.88	1234.85
11H058	NK	1519.66	3859.81	450.59	2972.07
11H072	NK	914.44	2716.28	215.59	1315.03
11H083	NK	448.41	1092.21	116.19	1091.75
11H126	NK	187.61	185.39	32.41	186.76
11H151	NK	502.51	1128.11	112.75	832.50
11H157	NK	759.78	2377.66	191.35	1256.23
11H160	NK	159.94	378.32	27.31	220.56
11H231	NK	259.29	674.77	72.37	541.27
11H234	NK	707.55	2592.17	138.66	474.24
12H007	NK	408.99	1347.18	102.85	499.52
12H021	NK	67.63	188.26	25.16	189.26
12H056	NK	3676.07	7666.52	554.82	3415.38
12H091	NK	284.61	786.18	128.15	852.34
12H171	NK	728.71	1520.87	292.87	2013.46

13H046	NK	146.37	591.73	38.87	100.33
13H053	NK	5.82	15.38	5.97	40.17
13H058	NK	37.95	117.95	9.74	84.79
13H110	NK	827.97	2598.67	272.77	1343.63
13H114	NK	1819.40	4794.86	292.78	2469.37
14H007	NK	735.19	2108.42	241.40	1243.47
14H015	NK	1184.45	4167.08	300.77	1406.72
14H019	NK	5374.35	12949.28	1225.66	6274.37
14H020	NK	9312.23	20000.00	3808.90	13319.29
07H098	NUP98 translocations	145.78	333.21	38.78	429.91
03H065	t(8;21)	85.99	239.35	23.15	303.82
05H042	t(8;21)	192.62	484.59	54.43	360.08
05H184	t(8;21)	504.37	1263.53	134.35	886.45
06H035	t(8;21)	87.33	256.11	25.78	240.76
07H137	t(8;21)	11.06	20.69	1.67	53.82
08H034	t(8;21)	315.50	1384.41	108.30	310.53
08H072	t(8;21)	278.62	961.64	85.77	724.52
09H040	t(8;21)	21.69	67.47	4.82	87.95
10H030	t(8;21)	168.13	452.15	45.94	414.60
10H119	t(8;21)	430.75	994.67	188.52	895.82
12H180	t(8;21)	130.31	265.88	25.67	214.47
05H118	t8:21)	121.05	479.48	27.97	261.87
06H048	Trisomy/tetrasomy 8	186.81	463.20	42.74	456.95
06H077	Trisomy/tetrasomy 8	470.23	1061.19	230.87	1764.98
07H019	Trisomy/tetrasomy 8	129.31	291.46	46.15	435.09
08H063	Trisomy/tetrasomy 8	3.75	12.38	3.07	51.37
08H108	Trisomy/tetrasomy 8	341.50	1485.73	217.51	1449.25
05H181	Undetermined	303.10	818.08	145.69	1312.63

Table S4. Chemogenomic statin screen

Gene	RANKS_score	p-value	FDR
SREBF2	-6.28	0.000001	<0.001
UNC50	-5.98	0.000001	<0.001
C12orf49	-5.89	0.000001	<0.001
SCAP	-5.45	0.000001	<0.001
RAB1B	-5.31	0.000001	<0.001
ACAT2	-4.72	0.000001	<0.001
SLC10A7	-4.54	0.000001	<0.001
YPEL5	-4.51	0.000001	<0.001
ENTPD4	-4.47	0.000001	<0.001
MBTPS2	-4.46	0.000001	<0.001
KIAA1432	-4.36	0.000001	<0.001
USO1	-4.31	0.000001	<0.001
RAB1A	-4.26	0.000001	<0.001
MCTS1	-4.23	0.000001	<0.001
SLC39A9	-4.2	0.000001	<0.001
SEC31A	-4.17	0.000001	<0.001
PITPNB	-4.06	0.000001	<0.001
MBTPS1	-3.96	0.000001	<0.001
COG7	-3.91	0.000001	<0.001
SLC35E1	-3.91	0.000001	<0.001
NADK	-3.78	0.000001	<0.001
OTUB1	-3.75	0.000001	<0.001
ARL1	-3.6	0.000001	<0.001
RABGGTA	-3.56	0.000001	<0.001
CARM1	-3.54	0.000001	<0.001
ATP8B2	-3.31	0.000001	<0.001
TCF4	-3.26	0.000001	<0.001
GOLGA2	-3.17	0.000001	<0.001
COG6	-3.16	0.000001	<0.001
SQLE	-3.13	0.000001	<0.001
MTMR6	-3.07	0.000011	0.002
ATP2B1	-2.97	0.000007	0.001
COG5	-2.91	0.000001	0.002
RING1	-2.87	0.000013	0.002
FAM122A	-2.86	0.000005	0.001
GGPS1	-2.84	0.000005	0.001
ABCG1	-2.81	0.000006	0.001
SEC63	-2.81	0.000006	0.001
CCM2	-2.79	0.000006	0.001

DPAGT1	-2.79	0.000007	0.001
CDC42	-2.78	0.000007	0.001
GSK3B	-2.78	0.000007	0.001
TBC1D20	-2.76	0.000008	0.001
RHOA	-2.73	0.00001	0.002
SEC23B	-2.73	0.00001	0.002
TMC2	-2.71	0.000031	0.005
DENR	-2.69	0.000013	0.002
GOLT1B	-2.68	0.000013	0.002
RGP1	-2.68	0.000037	0.005
RAB6A	-2.66	0.000015	0.002
MARK2	-2.62	0.00002	0.003
WDR26	-2.62	0.000049	0.007
DPH1	-2.59	0.000025	0.004
COG2	-2.58	0.000064	0.009
PTEN	-2.58	0.000026	0.004
DNAJC8	-2.57	0.000028	0.004
C10orf76	-2.55	0.000031	0.005
GCC1	-2.53	0.000034	0.005
CTCF	-2.52	0.000088	0.011
GPR107	-2.51	0.000036	0.005
ZNF296	-2.49	0.00004	0.006
UBE2E1	-2.48	0.000042	0.006
ZMYM3	-2.47	0.000045	0.006
SLMAP	-2.44	0.000057	0.008
HNRNPH1	-2.43	0.000062	0.009
TBC1D23	-2.42	0.000065	0.009
RABGGTB	-2.41	0.000071	0.009
CDK2	-2.4	0.000074	0.01
MESDC1	-2.39	0.000177	0.02
WRB	-2.39	0.00008	0.01
FLII	-2.38	0.000084	0.011
IRF2	-2.37	0.000091	0.011
PCYT1A	-2.37	0.000091	0.011
PRRC2C	-2.37	0.000436	0.04
ARFRP1	-2.36	0.000095	0.012
ATL2	-2.35	0.000099	0.012
PDCD6IP	-2.34	0.000105	0.012
ALG5	-2.33	0.00011	0.013
SCYL1	-2.31	0.000125	0.015
HMGCR	-2.28	0.00666	0.25
HMGCS1	-2.28	0.000149	0.017
IQGAP1	-2.28	0.000149	0.017
METT16	-2.27	0.00073	0.055
SEC16A	-2.27	0.00073	0.055
LPCAT1	-2.25	0.000178	0.02
TMEM230	-2.25	0.000374	0.036

PPP6R1	-2.22	0.000439	0.04
C12orf23	-2.21	0.000225	0.025
EIF5B	-2.21	0.003929	0.183
PPP6C	-2.21	0.000462	0.042
CNOT2	-2.2	0.000237	0.026
EDF1	-2.2	0.000488	0.044
PPCS	-2.2	0.000238	0.026
PA2G4	-2.19	0.000251	0.027
BACH2	-2.18	0.000544	0.046
NUDC	-2.18	0.000543	0.046
OR4D2	-2.18	0.000263	0.028
VPS52	-2.18	0.001123	0.079
DGAT1	-2.16	0.000609	0.049
MTF2	-2.16	0.000609	0.049
SPI1	-2.15	0.000643	0.051
NR1H2	-2.14	0.000333	0.034
ZNF148	-2.14	0.000333	0.034
TMEM30A	-2.13	0.00035	0.036
TRAPPC13	-2.13	0.000351	0.036
AKAP9	-2.12	0.000372	0.036
NCEH1	-2.12	0.000372	0.036
PCGF1	-2.12	0.000373	0.036
TRAPPC3	-2.11	0.000397	0.038
VKORC1L1	-2.11	0.000397	0.038
RBM38	-2.1	0.000422	0.04
DNAJC24	-2.08	0.000472	0.043
CYB561D2	-2.07	0.0005	0.044
THEG	-2.07	0.000499	0.044
MATR3	-2.06	0.000532	0.046
TSC2	-2.06	0.000533	0.046
CHMP7	-2.05	0.000565	0.047
GET4	-2.05	0.000564	0.047
JMJD6	-2.05	0.000564	0.047
SEC23IP	-2.05	0.001055	0.075
TSC1	-2.04	0.000597	0.049
CNOT8	-2.03	0.000628	0.05
AGO2	-2.02	0.001222	0.085
COG3	-2.01	0.002427	0.134
GOSR1	-2.01	0.000706	0.054
HSPA13	-2.01	0.000705	0.054
RCC2	-2.01	0.000705	0.054
RTFDC1	-2.01	0.000705	0.054
ZBTB8OS	-2.01	0.004402	0.2
AKNAD1	-2	0.002543	0.139
ALG6	-2	0.000748	0.055
NCOA4	-2	0.000748	0.055
SAR1A	-2	0.000747	0.055

DERL2	-1.99	0.000788	0.057
SLC11A2	-1.99	0.000788	0.057
MARCH5	-1.98	0.000833	0.06
EPRS	-1.97	0.001577	0.102
ATP6V1D	-1.96	0.00166	0.104
UBIAD1	-1.96	0.00166	0.104
VPS25	-1.96	0.005376	0.226
ARID3A	-1.95	0.001748	0.109
TM2D2	-1.91	0.00121	0.085
C1orf43	-1.9	0.001277	0.088
CCNL2	-1.89	0.001342	0.091
RYBP	-1.89	0.002344	0.132
SOX4	-1.89	0.004082	0.189
ZFP36L1	-1.89	0.001342	0.091
BRD1	-1.88	0.001415	0.095
IKZF1	-1.88	0.001415	0.095
BUB3	-1.87	0.002599	0.141
FKBP1A	-1.87	0.001498	0.1
ATP6V1A	-1.86	0.001583	0.102
SRPK1	-1.86	0.001582	0.102
TSSC1	-1.86	0.001583	0.102
VAPA	-1.86	0.001583	0.102
GEMIN5	-1.85	0.00167	0.104
ISM2	-1.85	0.00167	0.104
LRP10	-1.85	0.002861	0.15
KDM8	-1.84	0.003003	0.155
TOX4	-1.84	0.001758	0.109
UBQLN1	-1.83	0.001866	0.114
ADIPOR1	-1.82	0.001971	0.116
CBX3	-1.82	0.001972	0.116
GCN1L1	-1.82	0.001971	0.116
KLHL20	-1.82	0.001971	0.116
SMCHD1	-1.82	0.001972	0.116
STARD4	-1.82	0.001972	0.116
TM9SF2	-1.82	0.001972	0.116
COG4	-1.81	0.002076	0.12
RTCB	-1.81	0.002077	0.12
AMFR	-1.8	0.002193	0.125
ECHS1	-1.8	0.002193	0.125
ELF1	-1.79	0.002311	0.131
MYLIP	-1.79	0.002311	0.131
NHLRC2	-1.79	0.003827	0.18
POLE4	-1.78	0.002439	0.134
SUGT1	-1.78	0.002439	0.134
TXNL4A	-1.78	0.029952	0.491
ZFP36L2	-1.78	0.00244	0.134
GFPT1	-1.77	0.004204	0.194

DNAJC6	-1.76	0.002707	0.145
FZR1	-1.76	0.002707	0.145
NOC3L	-1.76	0.007104	0.261
NUTM2G	-1.75	0.002849	0.15
TRIP11	-1.75	0.002849	0.15
ZNF83	-1.75	0.002849	0.15
DNTTIP1	-1.74	0.002997	0.155
ERCC2	-1.74	0.012453	0.35
PRIM2	-1.74	0.012453	0.35
ZSCAN22	-1.74	0.002996	0.155
ABCB7	-1.73	0.003155	0.158
CD5	-1.73	0.003154	0.158
FLVCR2	-1.73	0.005058	0.215
GIMAP7	-1.73	0.003155	0.158
OSBPL11	-1.73	0.003155	0.158
PAX5	-1.73	0.005059	0.215
PPIG	-1.73	0.003155	0.158
CLCA1	-1.72	0.003324	0.164
LTB4R	-1.72	0.003324	0.164
MAD2L1	-1.72	0.003323	0.164
CNBD2	-1.71	0.00349	0.168
CTDNEP1	-1.71	0.00349	0.168
PI4KB	-1.71	0.003491	0.168
TRAPPC12	-1.71	0.00349	0.168
AGFG1	-1.7	0.003671	0.173
FOXD4L1	-1.7	0.00367	0.173
IER3IP1	-1.7	0.00367	0.173
SDPR	-1.7	0.003671	0.173
ALG12	-1.69	0.00385	0.18
CDK11A	-1.69	0.006083	0.24
HNRNPA2B1	-1.69	0.009531	0.313
SOD2	-1.69	0.006083	0.24
CMC2	-1.68	0.024572	0.458
CUX1	-1.67	0.006667	0.25
GMPPB	-1.67	0.006667	0.25
METTL14	-1.67	0.006668	0.25
NFIA	-1.67	0.004249	0.194
RBM34	-1.67	0.004248	0.194
CCBE1	-1.66	0.006955	0.257
GSKIP	-1.66	0.004477	0.2
MAPK14	-1.66	0.004477	0.2
SEC22B	-1.66	0.004476	0.2
B3GNT5	-1.65	0.007277	0.263
FAM69A	-1.65	0.004699	0.204
LPAR1	-1.65	0.004699	0.204
NR2C2	-1.65	0.004699	0.204
SLC25A1	-1.65	0.004699	0.204

UBE2D3	-1.65	0.004699	0.204
ZC3H15	-1.65	0.0047	0.204
CANX	-1.64	0.007625	0.274
EFS	-1.64	0.004938	0.212
KRTAP9-2	-1.64	0.004938	0.212
PANK1	-1.64	0.004938	0.212
CCDC27	-1.63	0.012169	0.345
DIAPH1	-1.63	0.005188	0.219
EIF1	-1.63	0.007977	0.279
GZMH	-1.62	0.005456	0.226
NFE2L3	-1.62	0.005455	0.226
TFE3	-1.62	0.005455	0.226
TMA7	-1.62	0.005455	0.226
EIF5A	-1.61	0.020013	0.416
MPPE1	-1.61	0.005728	0.233
TAS2R46	-1.61	0.005727	0.233
ZNF292	-1.61	0.005727	0.233
ZNF326	-1.61	0.005727	0.233
C9orf57	-1.6	0.00601	0.239
NAA38	-1.6	0.013733	0.362
SEPT5	-1.6	0.009091	0.303
SERBP1	-1.6	0.00601	0.239
WDR5B	-1.6	0.00601	0.239
ZDHHC3	-1.6	0.00909	0.303
ZNF639	-1.6	0.00601	0.239
ZNHIT1	-1.6	0.006011	0.239
CBFA2T2	-1.59	0.00631	0.242
EIF4ENIF1	-1.59	0.006311	0.242
FAM196A	-1.59	0.009507	0.313
HTT	-1.59	0.00631	0.242
PRRC2B	-1.59	0.006311	0.242
RFC5	-1.59	0.00631	0.242
SNRNP40	-1.59	0.006311	0.242
COPS5	-1.58	0.009949	0.32
LRMP	-1.58	0.009949	0.32
PCTP	-1.58	0.006617	0.25
SUPT3H	-1.58	0.006617	0.25
DISP1	-1.57	0.010388	0.326
NAA20	-1.57	0.006924	0.256
PAX2	-1.57	0.006924	0.256
WDR89	-1.57	0.006924	0.256
ZDHHC5	-1.57	0.010388	0.326
HYOU1	-1.56	0.016066	0.392
MVK	-1.56	0.016067	0.392
SEC24A	-1.56	0.007265	0.263
TRAF3IP2	-1.56	0.007265	0.263
TRAPPC4	-1.56	0.007265	0.263

CBL	-1.55	0.011357	0.335
GANAB	-1.55	0.011357	0.335
JTB	-1.55	0.007622	0.274
CAMK2G	-1.54	0.008003	0.279
G3BP1	-1.54	0.008003	0.279
GTF2I	-1.54	0.008003	0.279
MANEA	-1.54	0.008003	0.279
NOLC1	-1.54	0.008002	0.279
SPPL3	-1.54	0.008003	0.279
UBA3	-1.54	0.011855	0.342
ZBTB18	-1.54	0.008003	0.279
C9orf43	-1.53	0.008387	0.285
COL9A2	-1.53	0.008387	0.285
GOSR2	-1.53	0.008387	0.285
GPR153	-1.53	0.008387	0.285
GRIPAP1	-1.53	0.008387	0.285
SNX32	-1.53	0.008387	0.285
DOCK10	-1.52	0.008789	0.295
PATE3	-1.52	0.008789	0.295
SAP130	-1.52	0.012904	0.354
SMAD2	-1.52	0.008789	0.295
SYS1	-1.52	0.018796	0.408
TSPYL6	-1.52	0.00879	0.295
MMP3	-1.51	0.009227	0.305
PCYOX1	-1.51	0.009227	0.305
PIIP5K2	-1.51	0.013466	0.356
YKT6	-1.51	0.013466	0.356
OR2T11	-1.5	0.009688	0.314
PPIL3	-1.5	0.009688	0.314
TMF1	-1.5	0.009688	0.314
ZBTB41	-1.5	0.009688	0.314
CYB561A3	-1.49	0.010147	0.323
NASP	-1.49	0.010147	0.323
PAXBP1	-1.49	0.014671	0.375
SARS	-1.49	0.044461	0.577
UGGT1	-1.49	0.010148	0.323
ARID5A	-1.48	0.010628	0.326
BRS3	-1.48	0.010629	0.326
EBPL	-1.48	0.010628	0.326
LHX9	-1.48	0.010629	0.326
NAA25	-1.48	0.010628	0.326
NDEL1	-1.48	0.010628	0.326
NEDD1	-1.48	0.021895	0.434
SBNO2	-1.48	0.010628	0.326
TMEM123	-1.48	0.010628	0.326
TNKS	-1.48	0.010629	0.326
ANP32A	-1.47	0.011131	0.33

C17orf97	-1.47	0.011131	0.33
FIBP	-1.47	0.011131	0.33
NSMCE1	-1.47	0.011131	0.33
PCNP	-1.47	0.011132	0.33
PDAP1	-1.47	0.011131	0.33
PGGT1B	-1.47	0.011132	0.33
QKI	-1.47	0.011131	0.33
TMEM206	-1.47	0.011131	0.33
ZNF519	-1.47	0.011131	0.33
ARSK	-1.46	0.011645	0.337
ASNA1	-1.46	0.011644	0.337
GLRX3	-1.46	0.011644	0.337
KRAS	-1.46	0.016637	0.394
MOB4	-1.46	0.011645	0.337
MON2	-1.46	0.011644	0.337
SPATA6	-1.46	0.011645	0.337
ADA	-1.45	0.012192	0.345
DDIT4	-1.45	0.017346	0.396
ENTHD1	-1.45	0.017346	0.396
MEMO1	-1.45	0.012193	0.345
SRGAP3	-1.45	0.012193	0.345
SRP19	-1.45	0.017347	0.396
UBE4B	-1.45	0.012193	0.345
WDR62	-1.45	0.012192	0.345
ACTG1	-1.44	0.012757	0.351
BAI3	-1.44	0.012757	0.351
CCND2	-1.44	0.012756	0.351
KCND3	-1.44	0.012757	0.351
PPP1CA	-1.44	0.012757	0.351
SLIT1	-1.44	0.018071	0.404
TEX33	-1.44	0.012756	0.351
ZC3H14	-1.44	0.012757	0.351
ACIN1	-1.43	0.018826	0.408
C20orf78	-1.43	0.013359	0.355
EFCAB9	-1.43	0.01336	0.355
EPN2	-1.43	0.013359	0.355
FIS1	-1.43	0.01336	0.355
IREB2	-1.43	0.013359	0.355
KDM3B	-1.43	0.013359	0.355
LRRC30	-1.43	0.018827	0.408
PGM3	-1.43	0.01336	0.355
PHIP	-1.43	0.013359	0.355
RPL27A	-1.43	0.026455	0.474
SEMA6C	-1.43	0.01336	0.355
SPOPL	-1.43	0.01336	0.355
TMTC2	-1.43	0.013359	0.355
CCL2	-1.42	0.013997	0.364

HAUS8	-1.42	0.013997	0.364
RAD54L2	-1.42	0.013997	0.364
RXR8	-1.42	0.019641	0.416
SEPHS2	-1.42	0.013997	0.364
ZNF410	-1.42	0.013997	0.364
BEST3	-1.41	0.014635	0.375
CDIPT	-1.41	0.028518	0.482
ENO3	-1.41	0.014634	0.375
KAT8	-1.41	0.028518	0.482
PMP2	-1.41	0.014635	0.375
R3HCC1	-1.41	0.020462	0.424
RBM45	-1.41	0.014635	0.375
SND1	-1.41	0.014635	0.375
ERCC8	-1.4	0.015338	0.386
GPR27	-1.4	0.015338	0.386
KLHL22	-1.4	0.015338	0.386
MSRA	-1.4	0.015338	0.386
PLEK2	-1.4	0.015338	0.386
POLE3	-1.4	0.015338	0.386
PSMA2	-1.4	0.021285	0.432
RASGRP2	-1.4	0.021285	0.432
TM2D1	-1.4	0.021285	0.432
A1CF	-1.39	0.022154	0.438
CD53	-1.39	0.016017	0.392
CMTR2	-1.39	0.016017	0.392
DUSP26	-1.39	0.016017	0.392
PICALM	-1.39	0.016017	0.392
PRMT7	-1.39	0.016017	0.392
QTRTD1	-1.39	0.016017	0.392
SYAP1	-1.39	0.016017	0.392
USP32	-1.39	0.016018	0.392
ZDHHC17	-1.39	0.016017	0.392
BANF1	-1.38	0.031816	0.501
BCAM	-1.38	0.016748	0.394
C17orf85	-1.38	0.016748	0.394
CAB39	-1.38	0.031816	0.501
CHKA	-1.38	0.016748	0.394
COA4	-1.38	0.016748	0.394
ELAVL1	-1.38	0.016748	0.394
EXOC3	-1.38	0.016748	0.394
GDI2	-1.38	0.016748	0.394
GPR61	-1.38	0.016748	0.394
KPNA3	-1.38	0.023081	0.444
LIN54	-1.38	0.016748	0.394
LRTOMT	-1.38	0.016748	0.394
P2RX1	-1.38	0.016748	0.394
RC3H1	-1.38	0.016748	0.394

SMPD4	-1.38	0.016748	0.394
SNF8	-1.38	0.023081	0.444
THOC3	-1.38	0.023081	0.444
TOB2	-1.38	0.023081	0.444
ANAPC15	-1.37	0.024027	0.449
BEX2	-1.37	0.017523	0.396
CHRNA7	-1.37	0.017522	0.396
DPM2	-1.37	0.017523	0.396
EXOC4	-1.37	0.017523	0.396
FGF21	-1.37	0.017522	0.396
HDGF	-1.37	0.017522	0.396
HEATR3	-1.37	0.017522	0.396
HSPD1	-1.37	0.017523	0.396
KRIT1	-1.37	0.017522	0.396
PCMT1	-1.37	0.017522	0.396
RBP4	-1.37	0.017522	0.396
TGIF2-C20o	-1.37	0.017522	0.396
TRPM4	-1.37	0.017523	0.396
UQCRB	-1.37	0.024026	0.449
ABHD2	-1.36	0.018346	0.404
CENPM	-1.36	0.025021	0.462
DTNBP1	-1.36	0.018347	0.404
GADD45G	-1.36	0.018346	0.404
GPR101	-1.36	0.018346	0.404
HIST1H3G	-1.36	0.018346	0.404
ME3	-1.36	0.018347	0.404
RBM5	-1.36	0.018346	0.404
SOD1	-1.36	0.018347	0.404
TAS2R60	-1.36	0.018346	0.404
UBE2N	-1.36	0.018346	0.404
ABRA	-1.35	0.019159	0.408
DUSP1	-1.35	0.019159	0.408
IKZF2	-1.35	0.019159	0.408
L3MBTL2	-1.35	0.019159	0.408
MIER2	-1.35	0.026025	0.471
PLEC	-1.35	0.019159	0.408
PTGDR2	-1.35	0.019159	0.408
RAPGEF1	-1.35	0.019159	0.408
RPE	-1.35	0.026025	0.471
TAL1	-1.35	0.019159	0.408
TRAPPC2L	-1.35	0.019159	0.408
ZIC3	-1.35	0.019159	0.408
ZNF136	-1.35	0.019158	0.408
ZNF462	-1.35	0.026025	0.471
ABCC5	-1.34	0.020006	0.416
ARID1A	-1.34	0.036798	0.53
ATP6V1G1	-1.34	0.027088	0.474

C6orf118	-1.34	0.027087	0.474
CUL4B	-1.34	0.027087	0.474
EEF2	-1.34	0.095471	0.722
KIF4B	-1.34	0.020006	0.416
LTB4R2	-1.34	0.020006	0.416
PHACTR4	-1.34	0.020007	0.416
PHF8	-1.34	0.020006	0.416
RALGAPB	-1.34	0.020007	0.416
SORL1	-1.34	0.020007	0.416
STK40	-1.34	0.020006	0.416
TMUB2	-1.34	0.020006	0.416
CCDC130	-1.33	0.020882	0.426
FADS3	-1.33	0.020882	0.426
HOXB5	-1.33	0.028173	0.481
KDM1B	-1.33	0.020882	0.426
LIN9	-1.33	0.028173	0.481
POU3F2	-1.33	0.020882	0.426
PRDM15	-1.33	0.020882	0.426
SLC6A15	-1.33	0.020882	0.426
SMIM13	-1.33	0.020882	0.426
STPG1	-1.33	0.028173	0.481
TBC1D17	-1.33	0.028173	0.481
AGPAT6	-1.32	0.021809	0.433
B4GALT2	-1.32	0.021809	0.433
C14orf169	-1.32	0.029323	0.482
HOXA11	-1.32	0.02181	0.433
PPIA	-1.32	0.021809	0.433
PQLC1	-1.32	0.021809	0.433
PROX2	-1.32	0.021809	0.433
RP2	-1.32	0.02181	0.433
UBE2Z	-1.32	0.02181	0.433
VMA21	-1.32	0.02181	0.433
WHSC1	-1.32	0.02181	0.433
ACO2	-1.31	0.022792	0.442
ALG8	-1.31	0.022792	0.442
CHD7	-1.31	0.030513	0.493
CYP2E1	-1.31	0.022792	0.442
KDM6A	-1.31	0.022793	0.442
PLXNB1	-1.31	0.022793	0.442
TEAD4	-1.31	0.022793	0.442
TGIF2	-1.31	0.022793	0.442
TRPV6	-1.31	0.022793	0.442
ZNF720	-1.31	0.022793	0.442
ALK	-1.3	0.023787	0.446
CD2BP2	-1.3	0.023786	0.446
CPD	-1.3	0.023786	0.446
DEFB118	-1.3	0.023787	0.446

ELMSAN1	-1.3	0.023787	0.446
NFE2	-1.3	0.023787	0.446
NXT1	-1.3	0.023787	0.446
PHF6	-1.3	0.023787	0.446
PRODH2	-1.3	0.023787	0.446
SLC25A52	-1.3	0.023786	0.446
STYX	-1.3	0.023787	0.446
TCAF2	-1.3	0.056917	0.635
ZBTB32	-1.3	0.023787	0.446
BCAP29	-1.29	0.02482	0.459
COX6B1	-1.29	0.03302	0.508
DLAT	-1.29	0.033021	0.508
DPH5	-1.29	0.02482	0.459
GPR33	-1.29	0.03302	0.508
HRH1	-1.29	0.03302	0.508
INPPL1	-1.29	0.02482	0.459
RPA1	-1.29	0.05876	0.642
TRPA1	-1.29	0.02482	0.459
FOXA2	-1.28	0.025912	0.471
GBE1	-1.28	0.025913	0.471
MYL12A	-1.28	0.025913	0.471
PPP1R2	-1.28	0.025912	0.471
SATB2	-1.28	0.025912	0.471
SCGB2B2	-1.28	0.025912	0.471
THAP6	-1.28	0.025912	0.471
UBE3B	-1.28	0.034313	0.517
C11orf30	-1.27	0.027023	0.474
C11orf84	-1.27	0.027023	0.474
CCDC134	-1.27	0.027023	0.474
EDC3	-1.27	0.027022	0.474
FAM181A	-1.27	0.035675	0.522
GH2	-1.27	0.027023	0.474
GTF3C5	-1.27	0.035675	0.522
LPO	-1.27	0.035675	0.522
LY6G6C	-1.27	0.027023	0.474
MGAT5B	-1.27	0.027023	0.474
MLPH	-1.27	0.035675	0.522
MORN3	-1.27	0.027023	0.474
PLEKHH2	-1.27	0.027022	0.474
PRR14L	-1.27	0.027023	0.474
RAVER1	-1.27	0.035675	0.522
SCFD1	-1.27	0.035675	0.522
STK25	-1.27	0.027023	0.474
TFPI	-1.27	0.027023	0.474
TPTE	-1.27	0.027023	0.474
TXNL4B	-1.27	0.035675	0.522
ACAN	-1.26	0.02814	0.481

ADSL	-1.26	0.064546	0.667
BAG6	-1.26	0.02814	0.481
DMRTA1	-1.26	0.02814	0.481
GOLGA1	-1.26	0.02814	0.481
INIP	-1.26	0.02814	0.481
MYRF	-1.26	0.028141	0.481
OSGIN2	-1.26	0.028141	0.481
PGD	-1.26	0.037076	0.53
RFC3	-1.26	0.02814	0.481
SLC10A1	-1.26	0.02814	0.481
USH2A	-1.26	0.02814	0.481
ZNF202	-1.26	0.037076	0.53
CENPN	-1.25	0.029324	0.482
COL8A1	-1.25	0.029324	0.482
CPPED1	-1.25	0.038524	0.543
DPH2	-1.25	0.029324	0.482
HIF1A	-1.25	0.029324	0.482
HPGD	-1.25	0.029324	0.482
KLRD1	-1.25	0.029324	0.482
NBR1	-1.25	0.029324	0.482
NDUFB3	-1.25	0.029324	0.482
NMRK2	-1.25	0.029324	0.482
PFN1	-1.25	0.029324	0.482
RBBP6	-1.25	0.029324	0.482
SGMS1	-1.25	0.029324	0.482
SLBP	-1.25	0.029324	0.482
SPEF2	-1.25	0.029324	0.482
SYNGAP1	-1.25	0.029324	0.482
TIPRL	-1.25	0.029324	0.482
TRAPPC11	-1.25	0.029324	0.482
ZDHHC12	-1.25	0.029324	0.482
BCLAF1	-1.24	0.040047	0.547
CDAN1	-1.24	0.068671	0.667
CDK5R1	-1.24	0.030593	0.493
FAM72C	-1.24	0.162567	0.822
FBXO43	-1.24	0.030592	0.493
LZTS3	-1.24	0.040047	0.547
MPP7	-1.24	0.030593	0.493
NCMAP	-1.24	0.030593	0.493
PCDHGC5	-1.24	0.040047	0.547
PTAR1	-1.24	0.040047	0.547
SLC35F4	-1.24	0.030593	0.493
SPAG9	-1.24	0.030593	0.493
TFAP2B	-1.24	0.030593	0.493
UFL1	-1.24	0.030593	0.493
UGT2B4	-1.24	0.030592	0.493
ZFYVE21	-1.24	0.040047	0.547

ZNF341	-1.24	0.052291	0.624
ATP6V1E1	-1.23	0.031875	0.501
BCL11A	-1.23	0.031875	0.501
C17orf105	-1.23	0.031875	0.501
DDA1	-1.23	0.031875	0.501
DPF2	-1.23	0.031875	0.501
GALNTL5	-1.23	0.031875	0.501
PYROXD1	-1.23	0.031874	0.501
RAPGEF3	-1.23	0.031875	0.501
SEC24C	-1.23	0.031875	0.501
SOX13	-1.23	0.031874	0.501
TIMM22	-1.23	0.031875	0.501
ZNF736	-1.23	0.031875	0.501
ALG1	-1.22	0.033205	0.508
ANKRD52	-1.22	0.033205	0.508
CCR10	-1.22	0.033205	0.508
CFLAR	-1.22	0.033205	0.508
CPSF1	-1.22	0.056019	0.634
ELOVL1	-1.22	0.033205	0.508
GTF3C1	-1.22	0.043174	0.568
HEPHL1	-1.22	0.043173	0.568
KCTD14	-1.22	0.033205	0.508
LIG4	-1.22	0.043173	0.568
MAN2C1	-1.22	0.033205	0.508
ORC3	-1.22	0.033205	0.508
PAM16	-1.22	0.033205	0.508
RASGRF2	-1.22	0.033205	0.508
SCO2	-1.22	0.033205	0.508
UVSSA	-1.22	0.033205	0.508
ZBTB22	-1.22	0.033205	0.508
ABCA3	-1.21	0.034612	0.517
BLCAP	-1.21	0.044812	0.579
CNNM1	-1.21	0.034612	0.517
ITSN1	-1.21	0.034613	0.517
KRT12	-1.21	0.034612	0.517
MFAP3	-1.21	0.034612	0.517
OR8K1	-1.21	0.034612	0.517
ORAOV1	-1.21	0.057972	0.635
PREB	-1.21	0.057973	0.635
SNAP47	-1.21	0.034612	0.517
TBCD	-1.21	0.044812	0.579
UBE2S	-1.21	0.034612	0.517
UGT2A2	-1.21	0.034613	0.517
USP5	-1.21	0.034613	0.517
VPREB1	-1.21	0.044812	0.579
YIPF5	-1.21	0.034612	0.517
ZNF239	-1.21	0.034613	0.517

ZNF750	-1.21	0.034612	0.517
C7orf10	-1.2	0.036059	0.522
CCDC151	-1.2	0.036059	0.522
CEACAM6	-1.2	0.046543	0.594
CROCC	-1.2	0.046543	0.594
FAM221B	-1.2	0.046543	0.594
FGF11	-1.2	0.036059	0.522
HLA-DOB	-1.2	0.036059	0.522
KLHL28	-1.2	0.036059	0.522
NAA60	-1.2	0.036059	0.522
NEK1	-1.2	0.036059	0.522
PPIL1	-1.2	0.036059	0.522
PPM1N	-1.2	0.036059	0.522
TCF25	-1.2	0.036059	0.522
TMEM57	-1.2	0.036059	0.522
UBE3D	-1.2	0.036059	0.522
VEZT	-1.2	0.036059	0.522
ABCC1	-1.19	0.03756	0.53
APOPT1	-1.19	0.037561	0.53
BRE	-1.19	0.037561	0.53
C10orf131	-1.19	0.037561	0.53
CACNA1F	-1.19	0.062037	0.653
CDHR2	-1.19	0.037561	0.53
CNNM3	-1.19	0.062037	0.653
DCAF8	-1.19	0.037561	0.53
DERA	-1.19	0.03756	0.53
E2F8	-1.19	0.048316	0.606
GPR89A	-1.19	0.03756	0.53
IFITM2	-1.19	0.03756	0.53
KATNB1	-1.19	0.037561	0.53
MAPK10	-1.19	0.03756	0.53
SEC61A2	-1.19	0.037561	0.53
SETD4	-1.19	0.048316	0.606
ST20	-1.19	0.136272	0.786
ZHX2	-1.19	0.037561	0.53
ANGPTL5	-1.18	0.039093	0.544
APLF	-1.18	0.039093	0.544
DUSP16	-1.18	0.050154	0.612
FBXL3	-1.18	0.039093	0.544
GLYR1	-1.18	0.039093	0.544
MIS18BP1	-1.18	0.050154	0.612
MRGPRD	-1.18	0.039093	0.544
NBAS	-1.18	0.039093	0.544
NXPE1	-1.18	0.050153	0.612
POU2F2	-1.18	0.050154	0.612
RAET1G	-1.18	0.064132	0.667
SH2B1	-1.18	0.039093	0.544

SLC25A18	-1.18	0.039093	0.544
TMEM174	-1.18	0.050154	0.612
WIPI1	-1.18	0.039093	0.544
ZNF783	-1.18	0.050154	0.612
C1QTNF6	-1.17	0.040704	0.547
CAMLG	-1.17	0.040705	0.547
CSRP2	-1.17	0.040704	0.547
DCTN2	-1.17	0.040705	0.547
DUSP6	-1.17	0.040704	0.547
ENTPD2	-1.17	0.052052	0.622
FAM117B	-1.17	0.040704	0.547
HAX1	-1.17	0.040704	0.547
HOXA6	-1.17	0.040705	0.547
KLF7	-1.17	0.040704	0.547
LUZP1	-1.17	0.040704	0.547
MAPK8IP2	-1.17	0.040705	0.547
MPLKIP	-1.17	0.040704	0.547
MRGPRX4	-1.17	0.066298	0.667
NTRK1	-1.17	0.052053	0.622
PRDM11	-1.17	0.040705	0.547
PTPLA	-1.17	0.040704	0.547
RPS24	-1.17	0.040705	0.547
SAMD9	-1.17	0.040704	0.547
TRIB2	-1.17	0.040704	0.547
YPEL1	-1.17	0.040705	0.547
ALG3	-1.16	0.042387	0.56
CRIP1	-1.16	0.042387	0.56
ECHDC1	-1.16	0.042387	0.56
FCRLA	-1.16	0.042387	0.56
FSD2	-1.16	0.042387	0.56
ITIH5	-1.16	0.042387	0.56
KEAP1	-1.16	0.042387	0.56
KIAA0753	-1.16	0.054001	0.627
MED31	-1.16	0.042387	0.56
NOP14	-1.16	0.042388	0.56
PRR22	-1.16	0.042388	0.56
STARD7	-1.16	0.054	0.627
TCF12	-1.16	0.054001	0.627
ZCCHC2	-1.16	0.042388	0.56
ZNF318	-1.16	0.042387	0.56
BROX	-1.15	0.044094	0.573
BTNL9	-1.15	0.044094	0.573
CCR1	-1.15	0.044094	0.573
FCF1	-1.15	0.044094	0.573
FOXL1	-1.15	0.044094	0.573
LRCH3	-1.15	0.044094	0.573
NAMPT	-1.15	0.055986	0.634

NBEAL1	-1.15	0.055986	0.634
NOD1	-1.15	0.044093	0.573
TRIP12	-1.15	0.044094	0.573
UAP1	-1.15	0.044094	0.573
WDR46	-1.15	0.07085	0.67
APOA5	-1.14	0.0459	0.589
CCDC115	-1.14	0.058059	0.635
CCR4	-1.14	0.058058	0.635
CHST12	-1.14	0.0459	0.589
HHIPL2	-1.14	0.045901	0.589
KIF11	-1.14	0.197189	0.848
LCP2	-1.14	0.0459	0.589
PCNA	-1.14	0.07324	0.674
TMTC1	-1.14	0.0459	0.589
BCOR	-1.13	0.047761	0.601
CCDC28B	-1.13	0.047761	0.601
CSNK2A1	-1.13	0.047761	0.601
EVPLL	-1.13	0.047761	0.601
FAM71E1	-1.13	0.060166	0.643
FASN	-1.13	0.047762	0.601
KRT1	-1.13	0.047761	0.601
NDUFB5	-1.13	0.047761	0.601
NUDT2	-1.13	0.047761	0.601
OR9Q2	-1.13	0.047761	0.601
PTPN22	-1.13	0.060165	0.643
RAET1L	-1.13	0.047761	0.601
TIAF1	-1.13	0.047761	0.601
TIGD5	-1.13	0.060166	0.643
ABCC4	-1.12	0.04966	0.611
C8orf74	-1.12	0.04966	0.611
CACNG4	-1.12	0.04966	0.611
CHMP4C	-1.12	0.062384	0.653
CREB5	-1.12	0.04966	0.611
EXOSC6	-1.12	0.078187	0.682
GPN1	-1.12	0.04966	0.611
KIAA1109	-1.12	0.04966	0.611
KRBA1	-1.12	0.049659	0.611
KRTAP19-1	-1.12	0.04966	0.611
MARCKSL1	-1.12	0.04966	0.611
NDNL2	-1.12	0.062384	0.653
PAXIP1	-1.12	0.04966	0.611
PDGFD	-1.12	0.04966	0.611
PSME3	-1.12	0.04966	0.611
PTBP3	-1.12	0.049659	0.611
TGFB3	-1.12	0.04966	0.611
ZBTB34	-1.12	0.04966	0.611
APOBR	-1.11	0.051634	0.618

BEND7	-1.11	0.051634	0.618
BEX4	-1.11	0.051634	0.618
CATSPER4	-1.11	0.051634	0.618
ERI2	-1.11	0.051634	0.618
ETFB	-1.11	0.051634	0.618
FAM91A1	-1.11	0.051635	0.618
GPAA1	-1.11	0.051635	0.618
ITSN2	-1.11	0.051634	0.618
LTBR	-1.11	0.051635	0.618
MAGEB2	-1.11	0.051634	0.618
MBOAT4	-1.11	0.051634	0.618
PLEKHA2	-1.11	0.080735	0.69
SMARCC2	-1.11	0.051634	0.618
WFDC2	-1.11	0.051634	0.618
ADARB1	-1.1	0.066973	0.667
ALDH9A1	-1.1	0.066973	0.667
CSRNP2	-1.1	0.053672	0.626
CYP2C9	-1.1	0.053673	0.626
GIN52	-1.1	0.066972	0.667
GPR89B	-1.1	0.053672	0.626
GPX1	-1.1	0.053672	0.626
HNRNPUL2	-1.1	0.053673	0.626
HRC	-1.1	0.066973	0.667
ITFG2	-1.1	0.053673	0.626
LRRC10B	-1.1	0.053673	0.626
MT1G	-1.1	0.104346	0.74
MTMR4	-1.1	0.053673	0.626
NHSL1	-1.1	0.066973	0.667
NOX3	-1.1	0.053673	0.626
P2RY12	-1.1	0.053673	0.626
PAK2	-1.1	0.053673	0.626
PDE7B	-1.1	0.066973	0.667
RGS12	-1.1	0.053672	0.626
STRIP1	-1.1	0.053673	0.626
TFRC	-1.1	0.167037	0.827
TLR4	-1.1	0.053672	0.626
TSC22D4	-1.1	0.053672	0.626
WDR7	-1.1	0.053672	0.626
ZNF548	-1.1	0.053672	0.626
ZNF570	-1.1	0.053672	0.626
ACSM3	-1.09	0.055786	0.634
AIFM2	-1.09	0.055785	0.634
ATP9A	-1.09	0.055786	0.634
CEP89	-1.09	0.055785	0.634
COQ10A	-1.09	0.055785	0.634
GTF2IRD1	-1.09	0.069394	0.667
HIVEP3	-1.09	0.069394	0.667

LAMA5	-1.09	0.055786	0.634
LMX1A	-1.09	0.055786	0.634
MAGEB1	-1.09	0.055786	0.634
MAP2K1	-1.09	0.055786	0.634
MLF1IP	-1.09	0.055785	0.634
NAF1	-1.09	0.055785	0.634
PAK3	-1.09	0.055785	0.634
PCSK2	-1.09	0.055785	0.634
PDHB	-1.09	0.055786	0.634
PRKAR2A	-1.09	0.069394	0.667
RELB	-1.09	0.055785	0.634
SLC25A47	-1.09	0.055785	0.634
TMEM200B	-1.09	0.069394	0.667
TUBGCP3	-1.09	0.055785	0.634
UCN2	-1.09	0.055785	0.634
AP5M1	-1.08	0.057995	0.635
ARL5B	-1.08	0.057995	0.635
ATOH1	-1.08	0.057995	0.635
BET1	-1.08	0.057994	0.635
BPIFB2	-1.08	0.057995	0.635
C22orf39	-1.08	0.057995	0.635
CAP2	-1.08	0.07188	0.67
DR1	-1.08	0.057995	0.635
ESAM	-1.08	0.057995	0.635
FAM46B	-1.08	0.057995	0.635
GIF	-1.08	0.057995	0.635
LZTR1	-1.08	0.057995	0.635
MMP12	-1.08	0.057995	0.635
MYH15	-1.08	0.057995	0.635
NCOR1	-1.08	0.057995	0.635
POMP	-1.08	0.057995	0.635
PPP2R2D	-1.08	0.07188	0.67
RCOR3	-1.08	0.057995	0.635
RNF183	-1.08	0.057995	0.635
SLC25A28	-1.08	0.057995	0.635
SLC25A46	-1.08	0.057995	0.635
SNX4	-1.08	0.057995	0.635
STAT2	-1.08	0.07188	0.67
TNPO1	-1.08	0.057995	0.635
TNRC6A	-1.08	0.057995	0.635
TRAT1	-1.08	0.07188	0.67
TSSC4	-1.08	0.057995	0.635
WDR36	-1.08	0.07188	0.67
ARL15	-1.07	0.06028	0.643
C16orf86	-1.07	0.060279	0.643
DDX54	-1.07	0.074472	0.677
DNAI2	-1.07	0.06028	0.643

EXT2	-1.07	0.060279	0.643
HIST1H1B	-1.07	0.06028	0.643
HLA-G	-1.07	0.060279	0.643
ICMT	-1.07	0.06028	0.643
INSM1	-1.07	0.06028	0.643
KHDC1L	-1.07	0.06028	0.643
KLLN	-1.07	0.060279	0.643
LCORL	-1.07	0.060279	0.643
NENF	-1.07	0.06028	0.643
NOX1	-1.07	0.06028	0.643
OPHN1	-1.07	0.060279	0.643
OR6K3	-1.07	0.074472	0.677
PDHX	-1.07	0.06028	0.643
PTTG1	-1.07	0.06028	0.643
SEC61A1	-1.07	0.074472	0.677
TCERG1	-1.07	0.091736	0.714
TMEM209	-1.07	0.074472	0.677
TTBK2	-1.07	0.06028	0.643
ANAPC11	-1.06	0.094657	0.716
ANKH	-1.06	0.062624	0.653
ATG9A	-1.06	0.062625	0.653
CHAT	-1.06	0.062625	0.653
CPA6	-1.06	0.062624	0.653
CRKL	-1.06	0.077122	0.682
EDC4	-1.06	0.062624	0.653
GOLGA5	-1.06	0.062625	0.653
HNRNPCL1	-1.06	0.094657	0.716
HOXA10	-1.06	0.062625	0.653
MAS1L	-1.06	0.077122	0.682
MCM4	-1.06	0.062624	0.653
METTL6	-1.06	0.062624	0.653
NEIL3	-1.06	0.062624	0.653
OR4K13	-1.06	0.062624	0.653
PHC3	-1.06	0.062624	0.653
PPAPDC2	-1.06	0.062624	0.653
PROSER3	-1.06	0.062625	0.653
PRTG	-1.06	0.062624	0.653
RESP18	-1.06	0.062625	0.653
ZNF491	-1.06	0.062624	0.653
ZYX	-1.06	0.077121	0.682
BDH1	-1.05	0.065045	0.667
CBY1	-1.05	0.065044	0.667
CCDC18	-1.05	0.233195	0.874
CITED2	-1.05	0.065044	0.667
CYSTM1	-1.05	0.065044	0.667
ENTPD6	-1.05	0.065045	0.667
GPR161	-1.05	0.065044	0.667

SHOX2	-1.05	0.097691	0.726
SIX2	-1.05	0.079831	0.69
SPTLC2	-1.05	0.065044	0.667
TAF1C	-1.05	0.065044	0.667
USP21	-1.05	0.065044	0.667
ZFAT	-1.05	0.065044	0.667
AAMDC	-1.04	0.067525	0.667
AVIL	-1.04	0.067526	0.667
BTBD18	-1.04	0.067525	0.667
CDK5	-1.04	0.067525	0.667
CEP128	-1.04	0.067525	0.667
CLPSL1	-1.04	0.082659	0.692
DHPS	-1.04	0.082659	0.692
DUSP23	-1.04	0.082659	0.692
EPN1	-1.04	0.067525	0.667
GINS4	-1.04	0.08266	0.692
GPR135	-1.04	0.067525	0.667
HCFC1R1	-1.04	0.08266	0.692
IL19	-1.04	0.067526	0.667
KRTAP11-1	-1.04	0.067525	0.667
KRTAP6-3	-1.04	0.08266	0.692
LYZL1	-1.04	0.067526	0.667
MAGEE1	-1.04	0.067525	0.667
MAL2	-1.04	0.153088	0.807
MFSD5	-1.04	0.067525	0.667
MPC2	-1.04	0.067525	0.667
MUC21	-1.04	0.067525	0.667
NDUFA7	-1.04	0.067525	0.667
NOS3	-1.04	0.067525	0.667
PCDHGA5	-1.04	0.08266	0.692
PIDD	-1.04	0.067525	0.667
PRR25	-1.04	0.067526	0.667
PSPN	-1.04	0.067525	0.667
RPL17-C18c	-1.04	0.067525	0.667
RSRC1	-1.04	0.067525	0.667
SH3TC2	-1.04	0.067526	0.667
SLC18B1	-1.04	0.067525	0.667
TBC1D10B	-1.04	0.067525	0.667
TMEM87B	-1.04	0.067525	0.667
UBL3	-1.04	0.067525	0.667
ZBTB12	-1.04	0.067525	0.667
ZSCAN1	-1.04	0.067525	0.667
ATP1B4	-1.03	0.070079	0.667
C1orf74	-1.03	0.070079	0.667
C9orf92	-1.03	0.070079	0.667
CCDC6	-1.03	0.070079	0.667
ERLIN2	-1.03	0.070078	0.667

FASTKD5	-1.03	0.070079	0.667
FOXI2	-1.03	0.070078	0.667
GDF9	-1.03	0.070078	0.667
GMCL1	-1.03	0.085513	0.698
GNAI2	-1.03	0.070079	0.667
HPR	-1.03	0.070078	0.667
HPS4	-1.03	0.070079	0.667
IRAK1	-1.03	0.070079	0.667
LRRC16B	-1.03	0.085513	0.698
MAP3K8	-1.03	0.070079	0.667
MIP	-1.03	0.070079	0.667
NF1	-1.03	0.070079	0.667
PBRM1	-1.03	0.070079	0.667
PCID2	-1.03	0.070079	0.667
PPP2R4	-1.03	0.070078	0.667
PRAMEF10	-1.03	0.070079	0.667
RBM12B	-1.03	0.070079	0.667
RNF20	-1.03	0.085513	0.698
RRP8	-1.03	0.070079	0.667
SERPINA11	-1.03	0.070078	0.667
SFTA3	-1.03	0.070079	0.667
SPDYE3	-1.03	0.070079	0.667
SPRR3	-1.03	0.070079	0.667
SPTSSA	-1.03	0.070079	0.667
TENM4	-1.03	0.070078	0.667
THNSL1	-1.03	0.070079	0.667
TRPM6	-1.03	0.070079	0.667
USP8	-1.03	0.070079	0.667
ZCCHC16	-1.03	0.070079	0.667
ZDHHC15	-1.03	0.070078	0.667
AKAP3	-1.02	0.072739	0.67
AMIGO3	-1.02	0.072739	0.67
ATG4D	-1.02	0.072738	0.67
C11orf57	-1.02	0.072739	0.67
CNTN6	-1.02	0.072739	0.67
CYP39A1	-1.02	0.072739	0.67
DDX26B	-1.02	0.072739	0.67
DHRS4	-1.02	0.072739	0.67
DKC1	-1.02	0.130875	0.782
DRG1	-1.02	0.088473	0.706
GNG4	-1.02	0.072739	0.67
GPR158	-1.02	0.072739	0.67
HEBP2	-1.02	0.072739	0.67
INVS	-1.02	0.072739	0.67
KDM5A	-1.02	0.072739	0.67
LACTB2	-1.02	0.072739	0.67
LSM6	-1.02	0.107281	0.748

MCM8	-1.02	0.072739	0.67
MGST1	-1.02	0.072739	0.67
MYO1B	-1.02	0.072739	0.67
NR1D1	-1.02	0.072739	0.67
OR10A7	-1.02	0.072739	0.67
OR1N2	-1.02	0.072739	0.67
OR7G2	-1.02	0.072739	0.67
PEPD	-1.02	0.072738	0.67
PSTK	-1.02	0.072739	0.67
SLC29A2	-1.02	0.088472	0.706
SLC35C1	-1.02	0.072739	0.67
SRSF10	-1.02	0.107281	0.748
STAC2	-1.02	0.072739	0.67
VGLL4	-1.02	0.072739	0.67
WDR55	-1.02	0.088472	0.706
AMPD2	-1.01	0.075489	0.677
ATP2A2	-1.01	0.091452	0.712
BAZ2B	-1.01	0.07549	0.677
CCDC88B	-1.01	0.07549	0.677
COG8	-1.01	0.075489	0.677
CPNE1	-1.01	0.07549	0.677
CXCR2	-1.01	0.075489	0.677
DDX47	-1.01	0.134524	0.786
DIO3	-1.01	0.07549	0.677
FGFBP3	-1.01	0.091451	0.712
HOMER3	-1.01	0.07549	0.677
HOXC13	-1.01	0.07549	0.677
IGF2R	-1.01	0.07549	0.677
LEPR	-1.01	0.07549	0.677
MAP2K3	-1.01	0.091452	0.712
NOTCH4	-1.01	0.091452	0.712
NUP188	-1.01	0.091452	0.712
PRR3	-1.01	0.07549	0.677
RANBP1	-1.01	0.07549	0.677
RIN3	-1.01	0.07549	0.677
SDHA	-1.01	0.07549	0.677
SFT2D1	-1.01	0.07549	0.677
SPEN	-1.01	0.07549	0.677
SRSF5	-1.01	0.07549	0.677
TRIM11	-1.01	0.07549	0.677
UBA5	-1.01	0.075489	0.677
UBE2D2	-1.01	0.07549	0.677
ZCCHC9	-1.01	0.07549	0.677
ZNF14	-1.01	0.07549	0.677
ZNF488	-1.01	0.091452	0.712
ABCB9	-1	0.094596	0.716
ATXN10	-1	0.094596	0.716

C1orf68	-1	0.078305	0.682
C22orf15	-1	0.078305	0.682
CCDC68	-1	0.078305	0.682
CHMP6	-1	0.078305	0.682
CISD3	-1	0.078305	0.682
CLIC4	-1	0.078305	0.682
COL4A4	-1	0.078305	0.682
DEFB115	-1	0.094596	0.716
FAM195B	-1	0.094596	0.716
FRS3	-1	0.078305	0.682
GEMIN8	-1	0.094596	0.716
IPCEF1	-1	0.078305	0.682
KLHDC7B	-1	0.078305	0.682
LCE2D	-1	0.078305	0.682
LIPT1	-1	0.078305	0.682
MAFF	-1	0.078305	0.682
MAP3K7	-1	0.078305	0.682
MAP4K5	-1	0.078305	0.682
OR2AP1	-1	0.078305	0.682
OR5C1	-1	0.078305	0.682
PACS1	-1	0.094596	0.716
PLCL1	-1	0.078305	0.682
RRBP1	-1	0.078305	0.682
SEPT14	-1	0.078305	0.682
SMC6	-1	0.078305	0.682
SMO	-1	0.078305	0.682
TET1	-1	0.078305	0.682
THEMIS	-1	0.078305	0.682
TMCO6	-1	0.078305	0.682
TPST1	-1	0.078305	0.682
ZNF468	-1	0.078305	0.682
BCAN	-0.99	0.081206	0.69
C17orf78	-0.99	0.081206	0.69
C6orf141	-0.99	0.081206	0.69
C9orf37	-0.99	0.081206	0.69
CORO2B	-0.99	0.081206	0.69
CWC25	-0.99	0.081205	0.69
DDX6	-0.99	0.081206	0.69
DNM1L	-0.99	0.11766	0.763
DRP2	-0.99	0.081206	0.69
DSCC1	-0.99	0.081206	0.69
DTX4	-0.99	0.081206	0.69
F8A3	-0.99	0.081206	0.69
KRT9	-0.99	0.097794	0.726
METTL4	-0.99	0.081206	0.69
MGA	-0.99	0.081206	0.69
MIB1	-0.99	0.081205	0.69

OR2M4	-0.99	0.081205	0.69
PHTF1	-0.99	0.081206	0.69
PIP4K2B	-0.99	0.097794	0.726
PTH2	-0.99	0.081206	0.69
SEMA5B	-0.99	0.081206	0.69
SMIM9	-0.99	0.081206	0.69
SP9	-0.99	0.081206	0.69
SULT2B1	-0.99	0.081205	0.69
TBC1D15	-0.99	0.081206	0.69
ZNF676	-0.99	0.081206	0.69
ABCF2	-0.98	0.08421	0.692
AP1M2	-0.98	0.08421	0.692
ARHGEF38	-0.98	0.084209	0.692
ATAD3C	-0.98	0.084209	0.692
BIRC2	-0.98	0.101146	0.734
C3orf43	-0.98	0.08421	0.692
CCDC132	-0.98	0.08421	0.692
CDK2AP2	-0.98	0.084209	0.692
CIC	-0.98	0.084209	0.692
CNIH2	-0.98	0.084209	0.692
CSTB	-0.98	0.08421	0.692
DEFB106A	-0.98	0.084209	0.692
DEFB106B	-0.98	0.084209	0.692
DHX8	-0.98	0.121284	0.772
DYM	-0.98	0.084209	0.692
ETV3L	-0.98	0.084209	0.692
F8A1	-0.98	0.084209	0.692
F8A2	-0.98	0.08421	0.692
FBXL14	-0.98	0.084209	0.692
GPRC5C	-0.98	0.084209	0.692
HABP4	-0.98	0.08421	0.692
HNRNPA1L2	-0.98	0.08421	0.692
KIRREL3	-0.98	0.08421	0.692
LRIG1	-0.98	0.101146	0.734
MED4	-0.98	0.084209	0.692
MXRA7	-0.98	0.08421	0.692
PLEKHA6	-0.98	0.084209	0.692
RPL18A	-0.98	0.08421	0.692
RTP4	-0.98	0.084209	0.692
SPOP	-0.98	0.08421	0.692
SULT2A1	-0.98	0.084209	0.692
TRAPPC8	-0.98	0.101145	0.734
USP7	-0.98	0.101146	0.734
VTI1B	-0.98	0.08421	0.692
ZGLP1	-0.98	0.121284	0.772
ZNF791	-0.98	0.084209	0.692
ARPC3	-0.97	0.087285	0.698

B4GALT5	-0.97	0.087285	0.698
BET1L	-0.97	0.087285	0.698
C2CD5	-0.97	0.087285	0.698
CALML4	-0.97	0.124979	0.779
CCDC12	-0.97	0.10453	0.74
CCNJL	-0.97	0.087285	0.698
CHMP2A	-0.97	0.149992	0.804
CNGA3	-0.97	0.087285	0.698
DNPB1	-0.97	0.087286	0.698
EEFSEC	-0.97	0.087286	0.698
FAM19A2	-0.97	0.087285	0.698
FCRLB	-0.97	0.10453	0.74
GATA1	-0.97	0.10453	0.74
GRM1	-0.97	0.087285	0.698
H1FX	-0.97	0.087285	0.698
HEXB	-0.97	0.087285	0.698
IFIT1	-0.97	0.087285	0.698
ITGA9	-0.97	0.087285	0.698
MTRNR2L4	-0.97	0.269198	0.888
MYLK	-0.97	0.087285	0.698
NEDD8	-0.97	0.10453	0.74
NTMT1	-0.97	0.087285	0.698
OR51T1	-0.97	0.087285	0.698
OSGEP	-0.97	0.104529	0.74
PADI2	-0.97	0.087285	0.698
PRORY	-0.97	0.087285	0.698
PSAPL1	-0.97	0.087286	0.698
RSPH3	-0.97	0.087285	0.698
SEMA3E	-0.97	0.087285	0.698
SENP6	-0.97	0.087285	0.698
SFI1	-0.97	0.087285	0.698
SH3GL1	-0.97	0.10453	0.74
SLC25A42	-0.97	0.087285	0.698
SPINK13	-0.97	0.087285	0.698
TTLL2	-0.97	0.087285	0.698
ZMYM2	-0.97	0.087285	0.698
ALKBH7	-0.96	0.090499	0.708
APOOL	-0.96	0.090499	0.708
C15orf54	-0.96	0.090499	0.708
CCDC154	-0.96	0.090499	0.708
CDK11B	-0.96	0.090499	0.708
CHMP5	-0.96	0.090499	0.708
CTPS1	-0.96	0.154108	0.807
CYB5R4	-0.96	0.090499	0.708
DLD	-0.96	0.10798	0.748
DNAJB11	-0.96	0.090499	0.708
EIF3F	-0.96	0.090499	0.708

EIF4G3	-0.96	0.090499	0.708
FXYD5	-0.96	0.10798	0.748
GATS	-0.96	0.10798	0.748
IL12B	-0.96	0.090499	0.708
PLXDC2	-0.96	0.090499	0.708
POM121	-0.96	0.090499	0.708
PRSS16	-0.96	0.090499	0.708
RIPPLY2	-0.96	0.090499	0.708
RTEL1	-0.96	0.090499	0.708
SIGLEC1	-0.96	0.090499	0.708
SPATA31D1	-0.96	0.10798	0.748
TMUB1	-0.96	0.090499	0.708
TNPO2	-0.96	0.090499	0.708
UBQLNL	-0.96	0.090499	0.708
ZCWPW2	-0.96	0.090499	0.708
ZDHHC4	-0.96	0.090499	0.708
ZNF407	-0.96	0.090499	0.708
ARHGAP31	-0.95	0.093755	0.714
BRSK1	-0.95	0.093754	0.714
CCDC41	-0.95	0.111573	0.753
CD207	-0.95	0.111573	0.753
CXADR	-0.95	0.093754	0.714
ENTPD7	-0.95	0.093754	0.714
EXOC8	-0.95	0.111573	0.753
FEN1	-0.95	0.093755	0.714
GTF3A	-0.95	0.093755	0.714
HMMR	-0.95	0.093754	0.714
LRRC71	-0.95	0.111572	0.753
MAGOH	-0.95	0.111572	0.753
MAP4	-0.95	0.093755	0.714
MORN2	-0.95	0.1583	0.815
MROH2A	-0.95	0.093755	0.714
N4BP2L2	-0.95	0.093754	0.714
NLN	-0.95	0.093755	0.714
OR10H2	-0.95	0.093754	0.714
PARP1	-0.95	0.093754	0.714
PRPF40A	-0.95	0.093755	0.714
RBM22	-0.95	0.111572	0.753
RPL7A	-0.95	0.22995	0.871
RPP21	-0.95	0.093755	0.714
SEL1L3	-0.95	0.093754	0.714
SLC25A19	-0.95	0.093755	0.714
SPRR1A	-0.95	0.093754	0.714
SYT3	-0.95	0.093755	0.714
TCP10L2	-0.95	0.093755	0.714
UGT3A1	-0.95	0.093754	0.714
USP37	-0.95	0.093754	0.714

ZCCHC5	-0.95	0.093755	0.714
ZNF281	-0.95	0.093755	0.714
ZNF554	-0.95	0.093755	0.714
BOD1	-0.94	0.097148	0.723
C11orf95	-0.94	0.097148	0.723
C15orf26	-0.94	0.097148	0.723
CPSF3L	-0.94	0.097148	0.723
CXorf51A	-0.94	0.097148	0.723
DAB1	-0.94	0.097148	0.723
EBF3	-0.94	0.097148	0.723
ECEL1	-0.94	0.115212	0.762
ELK3	-0.94	0.097148	0.723
ERCC5	-0.94	0.097148	0.723
ESYT1	-0.94	0.097148	0.723
FKBP8	-0.94	0.097148	0.723
FXWD3	-0.94	0.115212	0.762
HTR1F	-0.94	0.097148	0.723
KCTD11	-0.94	0.097148	0.723
OTOP1	-0.94	0.097148	0.723
PCDHGC3	-0.94	0.097148	0.723
PGLYRP2	-0.94	0.115212	0.762
PI4KA	-0.94	0.097148	0.723
PIK3R3	-0.94	0.097148	0.723
ROCK2	-0.94	0.115212	0.762
SERHL2	-0.94	0.115212	0.762
SPCS2	-0.94	0.097148	0.723
SRPRB	-0.94	0.097148	0.723
SUPT16H	-0.94	0.136599	0.786
TCF19	-0.94	0.097148	0.723
TRAF2	-0.94	0.115212	0.762
VPS37B	-0.94	0.136599	0.786
WDR33	-0.94	0.16258	0.822
ZNF746	-0.94	0.115212	0.762
BCL9	-0.93	0.100589	0.732
CALCRL	-0.93	0.100589	0.732
CCNL1	-0.93	0.100589	0.732
CD300C	-0.93	0.118956	0.763
COG1	-0.93	0.100589	0.732
CXorf51B	-0.93	0.100589	0.732
DPH3	-0.93	0.100589	0.732
DYTN	-0.93	0.100589	0.732
EIF3J	-0.93	0.118956	0.763
ETHE1	-0.93	0.10059	0.732
GGT6	-0.93	0.118955	0.763
JPH2	-0.93	0.100589	0.732
LENG1	-0.93	0.118955	0.763
LY6G6F	-0.93	0.14064	0.789

MBD3	-0.93	0.100589	0.732
ME1	-0.93	0.118956	0.763
MFSD10	-0.93	0.10059	0.732
MGST2	-0.93	0.100589	0.732
MSS51	-0.93	0.100589	0.732
NAA35	-0.93	0.10059	0.732
NARS	-0.93	0.118955	0.763
NEU2	-0.93	0.10059	0.732
NLE1	-0.93	0.199422	0.848
OSGIN1	-0.93	0.100589	0.732
PHKA1	-0.93	0.10059	0.732
PRR15	-0.93	0.100589	0.732
RNF182	-0.93	0.10059	0.732
RPS6KA5	-0.93	0.118955	0.763
RSG1	-0.93	0.10059	0.732
SEC14L5	-0.93	0.100589	0.732
SLC38A3	-0.93	0.100589	0.732
SNAP91	-0.93	0.118955	0.763
STARD13	-0.93	0.100589	0.732
SULT4A1	-0.93	0.100589	0.732
ZNF490	-0.93	0.100589	0.732
APOA1	-0.92	0.104191	0.74
ATF7IP	-0.92	0.104191	0.74
ATP6V0B	-0.92	0.122846	0.772
C12orf68	-0.92	0.104191	0.74
C12orf76	-0.92	0.104191	0.74
C17orf67	-0.92	0.104191	0.74
CDCA7L	-0.92	0.104192	0.74
CNTNAP1	-0.92	0.104191	0.74
CYP2A13	-0.92	0.104191	0.74
DPYSL2	-0.92	0.104192	0.74
EFCAB14	-0.92	0.104191	0.74
EYA1	-0.92	0.122846	0.772
FEM1B	-0.92	0.104191	0.74
GRIP1	-0.92	0.104192	0.74
HIST1H2AK	-0.92	0.104191	0.74
HM13	-0.92	0.104191	0.74
INTS3	-0.92	0.171313	0.827
LOC100287	-0.92	0.104191	0.74
LSM4	-0.92	0.122846	0.772
LUC7L	-0.92	0.122846	0.772
NOM1	-0.92	0.144825	0.795
OCM	-0.92	0.104191	0.74
PALM2	-0.92	0.104191	0.74
PSMG2	-0.92	0.104191	0.74
RACGAP1	-0.92	0.122845	0.772
RALGAPA2	-0.92	0.104191	0.74

RDH11	-0.92	0.104191	0.74
RGR	-0.92	0.122846	0.772
RPL17	-0.92	0.104192	0.74
RPS6	-0.92	0.204119	0.858
SPATA6L	-0.92	0.104192	0.74
SSH2	-0.92	0.122846	0.772
TOE1	-0.92	0.122846	0.772
TTF1	-0.92	0.104191	0.74
ZBTB5	-0.92	0.104192	0.74
ZCCHC4	-0.92	0.122846	0.772
ZNF709	-0.92	0.122846	0.772
CCDC43	-0.91	0.126812	0.779
CDH6	-0.91	0.107854	0.748
CETN2	-0.91	0.107854	0.748
CKLF-CMTM	-0.91	0.107854	0.748
DEPTOR	-0.91	0.107854	0.748
EEP1	-0.91	0.107854	0.748
FAM69C	-0.91	0.107854	0.748
FAM71F1	-0.91	0.107854	0.748
GATSL3	-0.91	0.107854	0.748
GTF3C3	-0.91	0.107854	0.748
HTR1A	-0.91	0.126812	0.779
ITGA10	-0.91	0.107854	0.748
KCNJ10	-0.91	0.107854	0.748
LGALS3	-0.91	0.126811	0.779
NOTO	-0.91	0.107854	0.748
OCRL	-0.91	0.107854	0.748
PPP1R3B	-0.91	0.107854	0.748
PRPS1L1	-0.91	0.107854	0.748
SFT2D3	-0.91	0.107854	0.748
SH2D2A	-0.91	0.107854	0.748
SLC26A11	-0.91	0.126812	0.779
SNX27	-0.91	0.107854	0.748
SRP68	-0.91	0.107854	0.748
TUBGCP5	-0.91	0.126812	0.779
UBD	-0.91	0.107854	0.748
UNC13A	-0.91	0.107854	0.748
WDR20	-0.91	0.107854	0.748
ZAN	-0.91	0.107854	0.748
ZNF226	-0.91	0.107854	0.748
ABCE1	-0.9	0.1309	0.782
ADRB1	-0.9	0.130901	0.782
ANKRD36	-0.9	0.111642	0.753
CAPNS2	-0.9	0.15349	0.807
CD33	-0.9	0.111642	0.753
CELF4	-0.9	0.111642	0.753
COL9A3	-0.9	0.111642	0.753

DACT2	-0.9	0.111642	0.753
DENND4B	-0.9	0.111642	0.753
DMP1	-0.9	0.111642	0.753
E2F2	-0.9	0.130901	0.782
ETV7	-0.9	0.1309	0.782
FBXO31	-0.9	0.111642	0.753
FBXO42	-0.9	0.111642	0.753
FGF8	-0.9	0.111642	0.753
FOXF2	-0.9	0.1309	0.782
FUZ	-0.9	0.111642	0.753
GPR141	-0.9	0.111642	0.753
HP1BP3	-0.9	0.111642	0.753
LRBA	-0.9	0.111643	0.753
MRGPRX1	-0.9	0.111642	0.753
NAPA	-0.9	0.180546	0.838
NPIP4	-0.9	0.153489	0.807
NTN1	-0.9	0.111642	0.753
OR4A15	-0.9	0.111642	0.753
OR51F2	-0.9	0.111642	0.753
PPIAL4B	-0.9	0.180546	0.838
PSME2	-0.9	0.111642	0.753
PTPRG	-0.9	0.111643	0.753
RBM14	-0.9	0.1309	0.782
RBM14-RBM	-0.9	0.130901	0.782
RHPN2	-0.9	0.111643	0.753
RNF144A	-0.9	0.111642	0.753
RQCD1	-0.9	0.130901	0.782
SETX	-0.9	0.130901	0.782
SPATA22	-0.9	0.111643	0.753
STX17	-0.9	0.111642	0.753
TEX9	-0.9	0.111642	0.753
TOP2B	-0.9	0.111642	0.753
TTC27	-0.9	0.15349	0.807
TUBA3E	-0.9	0.130901	0.782
WDR82	-0.9	0.111642	0.753
ZFP69	-0.9	0.111642	0.753
ZNF512B	-0.9	0.111642	0.753
ARHGAP11E	-0.89	0.115548	0.762
ASB17	-0.89	0.115549	0.762
C5orf38	-0.89	0.115548	0.762
C8orf47	-0.89	0.115549	0.762
CCL5	-0.89	0.115548	0.762
CHRDL2	-0.89	0.115548	0.762
DYNLRB1	-0.89	0.115548	0.762
DYNLT1	-0.89	0.115548	0.762
FAM126A	-0.89	0.135062	0.786
GNRH1	-0.89	0.115548	0.762

GRAMD4	-0.89	0.135061	0.786
GSPT2	-0.89	0.115549	0.762
HHATL	-0.89	0.115548	0.762
KAZN	-0.89	0.115548	0.762
KIAA1324L	-0.89	0.115548	0.762
LHFP	-0.89	0.115549	0.762
LY96	-0.89	0.185311	0.839
MSANTD3	-0.89	0.115549	0.762
NAA11	-0.89	0.135061	0.786
OR10K2	-0.89	0.115548	0.762
OR5P3	-0.89	0.135061	0.786
PAG1	-0.89	0.115549	0.762
PPP1R12B	-0.89	0.115548	0.762
PSMA3	-0.89	0.135062	0.786
RAB12	-0.89	0.115548	0.762
RNASEL	-0.89	0.115548	0.762
SLC37A3	-0.89	0.115548	0.762
SUCNR1	-0.89	0.115548	0.762
TRADD	-0.89	0.135062	0.786
TUFM	-0.89	0.135061	0.786
WFDC10B	-0.89	0.115548	0.762
ZNF713	-0.89	0.115548	0.762
AAR2	-0.88	0.11959	0.763
ALX3	-0.88	0.11959	0.763
ANKAR	-0.88	0.11959	0.763
AP3S2	-0.88	0.139369	0.789
AVPR1A	-0.88	0.11959	0.763
BMP8B	-0.88	0.11959	0.763
C14orf183	-0.88	0.11959	0.763
CCL18	-0.88	0.11959	0.763
CD86	-0.88	0.13937	0.789
CEP295NL	-0.88	0.11959	0.763
DHX15	-0.88	0.162581	0.822
DNAJB1	-0.88	0.11959	0.763
DPM3	-0.88	0.11959	0.763
EFHC2	-0.88	0.139369	0.789
EFTUD1	-0.88	0.11959	0.763
EWSR1	-0.88	0.11959	0.763
FKBP5	-0.88	0.11959	0.763
GMIP	-0.88	0.13937	0.789
GPIHBP1	-0.88	0.139369	0.789
GPRC5A	-0.88	0.139369	0.789
GRM3	-0.88	0.13937	0.789
HRCT1	-0.88	0.162581	0.822
HSPA14	-0.88	0.11959	0.763
IDO1	-0.88	0.11959	0.763
IL9	-0.88	0.13937	0.789

INPP5E	-0.88	0.11959	0.763
IPO9	-0.88	0.11959	0.763
KITLG	-0.88	0.11959	0.763
KMT2E	-0.88	0.11959	0.763
LINGO3	-0.88	0.13937	0.789
MC5R	-0.88	0.11959	0.763
MFSD4	-0.88	0.11959	0.763
NUP35	-0.88	0.11959	0.763
P2RY4	-0.88	0.11959	0.763
PAPD7	-0.88	0.11959	0.763
PCDHA5	-0.88	0.11959	0.763
PRR14	-0.88	0.11959	0.763
PTGER2	-0.88	0.11959	0.763
RAB9B	-0.88	0.11959	0.763
RP1	-0.88	0.11959	0.763
SLC45A3	-0.88	0.11959	0.763
SLC7A7	-0.88	0.11959	0.763
SOSTDC1	-0.88	0.139369	0.789
SPATA5	-0.88	0.11959	0.763
SPRY1	-0.88	0.11959	0.763
SRSF12	-0.88	0.11959	0.763
TCOF1	-0.88	0.11959	0.763
TELO2	-0.88	0.13937	0.789
TMEM191C	-0.88	0.11959	0.763
TUBB4A	-0.88	0.11959	0.763
USP2	-0.88	0.13937	0.789
VEZF1	-0.88	0.11959	0.763
ZFPL1	-0.88	0.11959	0.763
ADCY1	-0.87	0.123759	0.772
BLVRA	-0.87	0.123759	0.772
C1orf61	-0.87	0.143666	0.795
CA1	-0.87	0.123759	0.772
CDC42EP4	-0.87	0.167214	0.827
CDH13	-0.87	0.143665	0.795
CDK1	-0.87	0.167214	0.827
CPEB2	-0.87	0.228857	0.871
EGR2	-0.87	0.195098	0.848
FAM153A	-0.87	0.123759	0.772
FBXW10	-0.87	0.123759	0.772
GEMIN2	-0.87	0.167214	0.827
GRAMD1B	-0.87	0.123759	0.772
HNRNPU	-0.87	0.123759	0.772
KALRN	-0.87	0.143665	0.795
KLHDC1	-0.87	0.123759	0.772
LRG1	-0.87	0.123759	0.772
MAP10	-0.87	0.123759	0.772
MYL2	-0.87	0.143665	0.795

MZT1	-0.87	0.143665	0.795
PAIP2	-0.87	0.123759	0.772
PGM2L1	-0.87	0.123759	0.772
PLA2G16	-0.87	0.123759	0.772
PSMB3	-0.87	0.195098	0.848
PTPN2	-0.87	0.123759	0.772
RABEPK	-0.87	0.123759	0.772
RASA2	-0.87	0.123759	0.772
SGCD	-0.87	0.123759	0.772
SNRPE	-0.87	0.228857	0.871
TMEM182	-0.87	0.123759	0.772
TMEM187	-0.87	0.143665	0.795
UTY	-0.87	0.123759	0.772
YES1	-0.87	0.123759	0.772
ZC3H13	-0.87	0.143665	0.795
ZNF428	-0.87	0.123759	0.772
AARS	-0.86	0.127963	0.779
ATP6AP1L	-0.86	0.148161	0.804
ATP6V1F	-0.86	0.148161	0.804
C19orf35	-0.86	0.127963	0.779
C1QB	-0.86	0.127963	0.779
C21orf33	-0.86	0.127963	0.779
CCDC7	-0.86	0.127963	0.779
CIDEC	-0.86	0.127963	0.779
CLTB	-0.86	0.127963	0.779
CNIH1	-0.86	0.127963	0.779
DHRS4L2	-0.86	0.127963	0.779
DTYMK	-0.86	0.127963	0.779
EFNA4	-0.86	0.127963	0.779
EIF2D	-0.86	0.127963	0.779
GLOD5	-0.86	0.127963	0.779
HINT2	-0.86	0.127963	0.779
ICK	-0.86	0.127963	0.779
KIF3B	-0.86	0.148162	0.804
LGALS14	-0.86	0.127963	0.779
MAGEA9	-0.86	0.127963	0.779
MMS22L	-0.86	0.127963	0.779
NEUROG3	-0.86	0.127963	0.779
NUPL1	-0.86	0.127963	0.779
P2RY2	-0.86	0.127963	0.779
PFKFB3	-0.86	0.127963	0.779
PMPCA	-0.86	0.200086	0.848
PRB4	-0.86	0.127963	0.779
PXN	-0.86	0.127963	0.779
RUFY3	-0.86	0.127963	0.779
SEC14L6	-0.86	0.127963	0.779
SIGLEC9	-0.86	0.148162	0.804

SPATA7	-0.86	0.127963	0.779
TAB1	-0.86	0.171982	0.829
TCHH	-0.86	0.127963	0.779
TRHR	-0.86	0.127963	0.779
UNC5C	-0.86	0.127963	0.779
WARS	-0.86	0.171982	0.829
ANAPC13	-0.85	0.13232	0.782
ARID4A	-0.85	0.132319	0.782
ASL	-0.85	0.132319	0.782
ATP6V1C1	-0.85	0.132319	0.782
CDH11	-0.85	0.132319	0.782
CELF5	-0.85	0.132319	0.782
CGA	-0.85	0.132319	0.782
CORO2A	-0.85	0.132319	0.782
DLX2	-0.85	0.13232	0.782
DPEP3	-0.85	0.132319	0.782
EML5	-0.85	0.13232	0.782
FAM155A	-0.85	0.132319	0.782
FAM19A1	-0.85	0.132319	0.782
FLVCR1	-0.85	0.13232	0.782
FNTB	-0.85	0.15281	0.807
FSTL5	-0.85	0.13232	0.782
GNL3	-0.85	0.176824	0.835
GRAPL	-0.85	0.13232	0.782
GTF3C2	-0.85	0.176824	0.835
HLA-DQA2	-0.85	0.132319	0.782
INPP4B	-0.85	0.132319	0.782
KRT77	-0.85	0.132319	0.782
MAGEA9B	-0.85	0.132319	0.782
MBD5	-0.85	0.132319	0.782
NAE1	-0.85	0.132319	0.782
OR2T12	-0.85	0.132319	0.782
PLEKHA3	-0.85	0.132319	0.782
POU2AF1	-0.85	0.15281	0.807
PRKCB	-0.85	0.13232	0.782
PRRC2A	-0.85	0.132319	0.782
RBM3	-0.85	0.132319	0.782
SDF2L1	-0.85	0.13232	0.782
SMCO3	-0.85	0.15281	0.807
SPATA5L1	-0.85	0.132319	0.782
SPIC	-0.85	0.13232	0.782
TMEM191B	-0.85	0.15281	0.807
TMPRSS11E	-0.85	0.13232	0.782
TSC22D2	-0.85	0.132319	0.782
UBXN8	-0.85	0.239381	0.879
USP35	-0.85	0.176824	0.835
VSIG2	-0.85	0.13232	0.782

ZNF233	-0.85	0.13232	0.782
ZNF865	-0.85	0.15281	0.807
ZRSR2	-0.85	0.13232	0.782
ANP32E	-0.84	0.136798	0.786
ARMCX3	-0.84	0.136798	0.786
C9orf3	-0.84	0.136798	0.786
CBLB	-0.84	0.18183	0.838
CDK12	-0.84	0.15753	0.811
CHM	-0.84	0.136799	0.786
CYB5R3	-0.84	0.136798	0.786
DEPDC4	-0.84	0.15753	0.811
DNTT	-0.84	0.15753	0.811
ERLEC1	-0.84	0.15753	0.811
FAM222A	-0.84	0.136799	0.786
FIP1L1	-0.84	0.157529	0.811
FUT5	-0.84	0.136798	0.786
HIST3H2A	-0.84	0.15753	0.811
HSPH1	-0.84	0.136798	0.786
INS-IGF2	-0.84	0.136798	0.786
KHDRBS2	-0.84	0.136798	0.786
KLHL14	-0.84	0.136798	0.786
LARP1B	-0.84	0.136798	0.786
LPP	-0.84	0.136798	0.786
LRRC20	-0.84	0.136798	0.786
LRTM1	-0.84	0.136798	0.786
LSMD1	-0.84	0.136798	0.786
MEX3B	-0.84	0.136798	0.786
MKI67IP	-0.84	0.18183	0.838
MKL2	-0.84	0.136798	0.786
MTMR9	-0.84	0.136799	0.786
PABPC5	-0.84	0.136798	0.786
POMGNT1	-0.84	0.136798	0.786
ROBO4	-0.84	0.15753	0.811
RPLP2	-0.84	0.18183	0.838
SLC35F3	-0.84	0.136799	0.786
SPAG4	-0.84	0.136799	0.786
TM9SF1	-0.84	0.15753	0.811
TMEM108	-0.84	0.136798	0.786
TMEM35	-0.84	0.136798	0.786
TP53I13	-0.84	0.15753	0.811
UBQLN4	-0.84	0.136799	0.786
UBR3	-0.84	0.136798	0.786
UNKL	-0.84	0.136798	0.786
VGLL2	-0.84	0.136798	0.786
VPS53	-0.84	0.210406	0.859
VTN	-0.84	0.136798	0.786
WDSUB1	-0.84	0.136798	0.786

XPNPEP2	-0.84	0.136798	0.786
ZNF740	-0.84	0.136798	0.786
ABHD12	-0.83	0.141337	0.789
ADPRHL1	-0.83	0.141337	0.789
ANAPC2	-0.83	0.162448	0.822
ARHGAP8	-0.83	0.141337	0.789
C1orf186	-0.83	0.141337	0.789
C1orf194	-0.83	0.141337	0.789
CA13	-0.83	0.141337	0.789
CCDC113	-0.83	0.141336	0.789
CSNK1A1L	-0.83	0.141337	0.789
DCTN6	-0.83	0.162448	0.822
DOT1L	-0.83	0.141336	0.789
ENG	-0.83	0.141337	0.789
FAM120B	-0.83	0.141337	0.789
FNDC5	-0.83	0.141336	0.789
FUT4	-0.83	0.141337	0.789
GJD2	-0.83	0.141337	0.789
GLMN	-0.83	0.141337	0.789
GPR17	-0.83	0.141337	0.789
KCNE1L	-0.83	0.141337	0.789
KIAA1804	-0.83	0.162448	0.822
KIF17	-0.83	0.141337	0.789
KLRC1	-0.83	0.141336	0.789
LCMT2	-0.83	0.141337	0.789
MED6	-0.83	0.141337	0.789
N6AMT1	-0.83	0.18688	0.839
NFATC1	-0.83	0.141337	0.789
NKG7	-0.83	0.141337	0.789
PCDH1	-0.83	0.141337	0.789
PCDHB15	-0.83	0.141336	0.789
PSMB8	-0.83	0.141337	0.789
RGPD8	-0.83	0.141337	0.789
SERTAD1	-0.83	0.141337	0.789
SLC22A2	-0.83	0.141337	0.789
TAF1A	-0.83	0.18688	0.839
TBL1Y	-0.83	0.141336	0.789
TMPRSS3	-0.83	0.141337	0.789
UPF3B	-0.83	0.141337	0.789
VPS11	-0.83	0.141337	0.789
ZNF569	-0.83	0.141336	0.789
ATP1B1	-0.82	0.146033	0.795
BHLHE22	-0.82	0.146033	0.795
BRPF3	-0.82	0.221168	0.868
C12orf54	-0.82	0.146033	0.795
C17orf96	-0.82	0.146033	0.795
CMIP	-0.82	0.146033	0.795

CTBP1	-0.82	0.146033	0.795
DNAAF1	-0.82	0.146033	0.795
DPY19L2	-0.82	0.167401	0.827
DUOXA1	-0.82	0.146033	0.795
ECM1	-0.82	0.167401	0.827
ELK4	-0.82	0.146033	0.795
ENTHD2	-0.82	0.146033	0.795
FAM57A	-0.82	0.146033	0.795
GLB1	-0.82	0.146033	0.795
GPR123	-0.82	0.146033	0.795
HACE1	-0.82	0.146033	0.795
HOXB7	-0.82	0.146034	0.795
IFRD2	-0.82	0.146034	0.795
IWS1	-0.82	0.146034	0.795
KHDRBS3	-0.82	0.146033	0.795
KIAA1211	-0.82	0.221168	0.868
LRP1	-0.82	0.146033	0.795
MESP2	-0.82	0.146033	0.795
MYOZ3	-0.82	0.146033	0.795
OR10J5	-0.82	0.146033	0.795
OR4F15	-0.82	0.146033	0.795
PAICS	-0.82	0.192094	0.846
RFWD2	-0.82	0.146033	0.795
SARS2	-0.82	0.167401	0.827
SLC22A3	-0.82	0.146033	0.795
SLC25A27	-0.82	0.146034	0.795
SLC4A2	-0.82	0.146033	0.795
TBC1D8	-0.82	0.146033	0.795
TMC1	-0.82	0.167401	0.827
TMEM167B	-0.82	0.146033	0.795
TSPO	-0.82	0.167401	0.827
TTC4	-0.82	0.146033	0.795
TUBGCP2	-0.82	0.146033	0.795
USF2	-0.82	0.146034	0.795
WNT6	-0.82	0.146033	0.795
ZBTB1	-0.82	0.146033	0.795
ZNF593	-0.82	0.146033	0.795
AADA2L2	-0.81	0.1509	0.804
ACADVL	-0.81	0.150901	0.804
ALPK3	-0.81	0.1509	0.804
ANAPC4	-0.81	0.150901	0.804
ARHGAP22	-0.81	0.1509	0.804
BDP1	-0.81	0.150901	0.804
C10orf120	-0.81	0.150901	0.804
C16orf45	-0.81	0.1509	0.804
C17orf49	-0.81	0.172509	0.829
CAMTA1	-0.81	0.150901	0.804

CCDC13	-0.81	0.150901	0.804
CEPT1	-0.81	0.150901	0.804
CFDP1	-0.81	0.172509	0.829
CNGA4	-0.81	0.150901	0.804
CXorf23	-0.81	0.150901	0.804
DEPDC1B	-0.81	0.172509	0.829
ESRP1	-0.81	0.150901	0.804
FAM175A	-0.81	0.150901	0.804
FOXD4	-0.81	0.1509	0.804
GPR20	-0.81	0.150901	0.804
GRIK2	-0.81	0.150901	0.804
KCNA1	-0.81	0.1509	0.804
KRT18	-0.81	0.1509	0.804
KRTAP19-4	-0.81	0.150901	0.804
LOX	-0.81	0.1509	0.804
MAGEC2	-0.81	0.150901	0.804
MAGED1	-0.81	0.1509	0.804
MALRD1	-0.81	0.1509	0.804
NCAM2	-0.81	0.150901	0.804
PBDC1	-0.81	0.1509	0.804
PHC2	-0.81	0.150901	0.804
PROL1	-0.81	0.150901	0.804
SBNO1	-0.81	0.172509	0.829
SP140	-0.81	0.172509	0.829
TNNT1	-0.81	0.197337	0.848
USP17L17	-0.81	0.303314	0.9
VN1R2	-0.81	0.1509	0.804
WRN	-0.81	0.1509	0.804
ZNF431	-0.81	0.172509	0.829
ABCF1	-0.8	0.17771	0.835
ADRA2B	-0.8	0.155842	0.807
ALCAM	-0.8	0.155842	0.807
ARNTL	-0.8	0.155843	0.807
ATF5	-0.8	0.155842	0.807
AVPI1	-0.8	0.155843	0.807
BHLHB9	-0.8	0.177711	0.835
C10orf35	-0.8	0.155843	0.807
CAMKV	-0.8	0.17771	0.835
CBLL1	-0.8	0.17771	0.835
CCNE2	-0.8	0.155843	0.807
CD3D	-0.8	0.155843	0.807
CLOCK	-0.8	0.155843	0.807
DHX35	-0.8	0.155842	0.807
DMTN	-0.8	0.17771	0.835
EAF1	-0.8	0.155843	0.807
GALNS	-0.8	0.155842	0.807
GSTA4	-0.8	0.155843	0.807

IFNA5	-0.8	0.155843	0.807
ISX	-0.8	0.155843	0.807
ITGB7	-0.8	0.17771	0.835
KLHL9	-0.8	0.155842	0.807
KMT2D	-0.8	0.155843	0.807
LIPM	-0.8	0.155843	0.807
LRRC55	-0.8	0.155842	0.807
MUC6	-0.8	0.17771	0.835
NCKAP5L	-0.8	0.155842	0.807
NES	-0.8	0.155842	0.807
NR4A2	-0.8	0.20275	0.858
NUAK1	-0.8	0.155842	0.807
OR5M3	-0.8	0.155843	0.807
OR7D4	-0.8	0.155842	0.807
OTUD6A	-0.8	0.155842	0.807
PRPF6	-0.8	0.232317	0.871
QSOX2	-0.8	0.155843	0.807
S100A6	-0.8	0.17771	0.835
SBF1	-0.8	0.155842	0.807
SFXN5	-0.8	0.155843	0.807
SLC25A11	-0.8	0.155842	0.807
SLC26A8	-0.8	0.155843	0.807
SMIM12	-0.8	0.155843	0.807
SNTA1	-0.8	0.155842	0.807
SPIDR	-0.8	0.155843	0.807
STAT5A	-0.8	0.155842	0.807
USHBP1	-0.8	0.155842	0.807
WDR48	-0.8	0.155843	0.807
YAE1D1	-0.8	0.177711	0.835
ZBTB33	-0.8	0.155843	0.807
ZFAND3	-0.8	0.155842	0.807
ZFP2	-0.8	0.155843	0.807
ZNF534	-0.8	0.155842	0.807
ZSCAN26	-0.8	0.155842	0.807
AMMECR1	-0.79	0.160916	0.817
ATG2B	-0.79	0.160916	0.817
BCR	-0.79	0.160915	0.817
CCNA1	-0.79	0.160916	0.817
CHD9	-0.79	0.160915	0.817
CRLF2	-0.79	0.160916	0.817
CTSG	-0.79	0.18301	0.838
EXTL1	-0.79	0.18301	0.838
FAM107A	-0.79	0.183009	0.838
FAM166B	-0.79	0.160916	0.817
HCAR2	-0.79	0.160916	0.817
HSD3B2	-0.79	0.160916	0.817
HSPA1L	-0.79	0.160916	0.817

IER3	-0.79	0.160916	0.817
KRTAP1-4	-0.79	0.160915	0.817
LYZL4	-0.79	0.18301	0.838
MCCD1	-0.79	0.18301	0.838
OPA3	-0.79	0.160916	0.817
PFN2	-0.79	0.160916	0.817
PIM2	-0.79	0.160916	0.817
REEP1	-0.79	0.160916	0.817
RNF2	-0.79	0.160916	0.817
SETD6	-0.79	0.160916	0.817
SKP2	-0.79	0.160916	0.817
SLC28A2	-0.79	0.160916	0.817
SLC6A8	-0.79	0.160915	0.817
SPTBN2	-0.79	0.18301	0.838
TAS2R20	-0.79	0.160915	0.817
THOC7	-0.79	0.160916	0.817
TMEM41B	-0.79	0.160916	0.817
ZNF169	-0.79	0.160916	0.817
ZNF317	-0.79	0.18301	0.838
ZNF329	-0.79	0.160915	0.817
ALG14	-0.78	0.188432	0.839
C10orf137	-0.78	0.166076	0.824
CAPN10	-0.78	0.166076	0.824
CLEC11A	-0.78	0.213911	0.864
COX6C	-0.78	0.243816	0.879
CPLX1	-0.78	0.166076	0.824
DEXI	-0.78	0.166075	0.824
DKK1	-0.78	0.166076	0.824
F2RL3	-0.78	0.166075	0.824
FAM118B	-0.78	0.188432	0.839
FAM194A	-0.78	0.166076	0.824
FBXO44	-0.78	0.166075	0.824
GPR55	-0.78	0.166075	0.824
GSDMC	-0.78	0.188432	0.839
HCN3	-0.78	0.166075	0.824
HILPDA	-0.78	0.166076	0.824
HLA-C	-0.78	0.166076	0.824
IFT43	-0.78	0.166076	0.824
KDM4B	-0.78	0.166075	0.824
KRTAP10-4	-0.78	0.213911	0.864
LCT	-0.78	0.166075	0.824
MED9	-0.78	0.166076	0.824
MRTO4	-0.78	0.166075	0.824
MX2	-0.78	0.166075	0.824
MYO1A	-0.78	0.166076	0.824
NANOS2	-0.78	0.166076	0.824
PDLIM4	-0.78	0.166076	0.824

PIGQ	-0.78	0.166076	0.824
PLIN1	-0.78	0.188433	0.839
RALYL	-0.78	0.166076	0.824
RBM44	-0.78	0.166075	0.824
RFX3	-0.78	0.188432	0.839
S1PR2	-0.78	0.166076	0.824
SGSM1	-0.78	0.188432	0.839
SGTB	-0.78	0.166075	0.824
SMIM20	-0.78	0.166076	0.824
SUCO	-0.78	0.166076	0.824
SYNJ2	-0.78	0.188432	0.839
TMCO2	-0.78	0.166075	0.824
TNIP3	-0.78	0.166076	0.824
UBE4A	-0.78	0.166076	0.824
WDR70	-0.78	0.166075	0.824
ZFAND5	-0.78	0.166076	0.824
ZKSCAN3	-0.78	0.166076	0.824
ACYP2	-0.77	0.171381	0.827
ANKRD46	-0.77	0.171381	0.827
AP2A1	-0.77	0.171381	0.827
ARHGEF15	-0.77	0.171381	0.827
ASCC1	-0.77	0.17138	0.827
ATMIN	-0.77	0.171381	0.827
C11orf97	-0.77	0.171381	0.827
C17orf107	-0.77	0.17138	0.827
C4orf17	-0.77	0.171381	0.827
CCDC78	-0.77	0.171381	0.827
CD274	-0.77	0.17138	0.827
CD38	-0.77	0.171381	0.827
CSNK2A2	-0.77	0.17138	0.827
CWC15	-0.77	0.17138	0.827
DNAJA4	-0.77	0.193975	0.846
EGF	-0.77	0.171381	0.827
FAM179A	-0.77	0.17138	0.827
FAM186B	-0.77	0.171381	0.827
FAM43B	-0.77	0.193975	0.846
FBRSL1	-0.77	0.171381	0.827
GKAP1	-0.77	0.171381	0.827
GLUD2	-0.77	0.171381	0.827
HPS5	-0.77	0.193975	0.846
HS3ST2	-0.77	0.193974	0.846
IL20RA	-0.77	0.219646	0.868
KRTAP4-1	-0.77	0.17138	0.827
LCN9	-0.77	0.171381	0.827
LTF	-0.77	0.171381	0.827
MARCH11	-0.77	0.193974	0.846
MCCC2	-0.77	0.171381	0.827

OR2Y1	-0.77	0.171381	0.827
OTUD7A	-0.77	0.193974	0.846
OXSR1	-0.77	0.171381	0.827
PLB1	-0.77	0.17138	0.827
PRSS45	-0.77	0.17138	0.827
S100A11	-0.77	0.171381	0.827
SH3BP2	-0.77	0.171381	0.827
SMC5	-0.77	0.193974	0.846
SMYD4	-0.77	0.171381	0.827
SNAPC5	-0.77	0.219646	0.868
SON	-0.77	0.17138	0.827
SPAG16	-0.77	0.17138	0.827
TACR1	-0.77	0.219646	0.868
TBL1X	-0.77	0.171381	0.827
TBP	-0.77	0.171381	0.827
TCF21	-0.77	0.17138	0.827
TSPAN12	-0.77	0.171381	0.827
TYW5	-0.77	0.17138	0.827
XBP1	-0.77	0.17138	0.827
ZBTB6	-0.77	0.17138	0.827
ZNF30	-0.77	0.171381	0.827
ZNF770	-0.77	0.171381	0.827
ACSS1	-0.76	0.176848	0.835
ATAT1	-0.76	0.176848	0.835
ATG4A	-0.76	0.176848	0.835
BDKRB1	-0.76	0.176848	0.835
BHLHE41	-0.76	0.176848	0.835
C5orf60	-0.76	0.199564	0.848
CARKD	-0.76	0.176848	0.835
CASP14	-0.76	0.176847	0.835
CDK5RAP2	-0.76	0.176848	0.835
COL4A6	-0.76	0.176848	0.835
CRLF1	-0.76	0.199564	0.848
DDX23	-0.76	0.333102	0.908
DDX3Y	-0.76	0.176848	0.835
DUS1L	-0.76	0.199564	0.848
ECT2	-0.76	0.199564	0.848
FASLG	-0.76	0.199563	0.848
FLNC	-0.76	0.176847	0.835
FZD5	-0.76	0.176848	0.835
GJD4	-0.76	0.199564	0.848
GPR180	-0.76	0.199564	0.848
H2AFB2	-0.76	0.176848	0.835
HIST1H4L	-0.76	0.199563	0.848
IGSF23	-0.76	0.199563	0.848
IL34	-0.76	0.176848	0.835
KLF11	-0.76	0.199564	0.848

KLRG2	-0.76	0.176848	0.835
MGAT2	-0.76	0.176848	0.835
ONECUT3	-0.76	0.176848	0.835
OR4C6	-0.76	0.176848	0.835
OR8A1	-0.76	0.176847	0.835
OR8J1	-0.76	0.176848	0.835
PHYHIPL	-0.76	0.176847	0.835
PLEKHG6	-0.76	0.176848	0.835
PRDX1	-0.76	0.176848	0.835
RAD51C	-0.76	0.225498	0.868
RHOB	-0.76	0.176848	0.835
SEMA3F	-0.76	0.176848	0.835
SLC9A7	-0.76	0.176847	0.835
SRC	-0.76	0.176848	0.835
TM2D3	-0.76	0.176847	0.835
TMPRSS11F	-0.76	0.176848	0.835
TNPO3	-0.76	0.225498	0.868
TSLP	-0.76	0.176848	0.835
TSPYL4	-0.76	0.199564	0.848
USP28	-0.76	0.176848	0.835
VGf	-0.76	0.199564	0.848
VGLL3	-0.76	0.199564	0.848
VPS13D	-0.76	0.199563	0.848
ZNF280A	-0.76	0.176847	0.835
ZNF658	-0.76	0.176847	0.835
ADCY7	-0.75	0.182452	0.838
ANKRD31	-0.75	0.182452	0.838
ARL10	-0.75	0.182451	0.838
C19orf52	-0.75	0.182452	0.838
C1orf53	-0.75	0.182451	0.838
C22orf29	-0.75	0.231459	0.871
C8orf33	-0.75	0.182452	0.838
CD28	-0.75	0.182452	0.838
CLCN3	-0.75	0.182452	0.838
COL20A1	-0.75	0.182452	0.838
COPA	-0.75	0.231459	0.871
DFNA5	-0.75	0.182451	0.838
EGFL7	-0.75	0.182452	0.838
ENPP3	-0.75	0.182452	0.838
FABP2	-0.75	0.182452	0.838
FAM204A	-0.75	0.182451	0.838
FAM211B	-0.75	0.205364	0.858
GOLGA6L9	-0.75	0.182452	0.838
GZF1	-0.75	0.205364	0.858
H2AFB3	-0.75	0.182451	0.838
KIF26A	-0.75	0.182452	0.838
LAMTOR5	-0.75	0.182451	0.838

LANCL3	-0.75	0.182452	0.838
LOC79999	-0.75	0.182452	0.838
LRCH4	-0.75	0.205364	0.858
LRSAM1	-0.75	0.182452	0.838
LURAP1	-0.75	0.182451	0.838
MED12L	-0.75	0.182451	0.838
MFSD6L	-0.75	0.182451	0.838
MGAT1	-0.75	0.182452	0.838
MLKL	-0.75	0.182452	0.838
MOGS	-0.75	0.205364	0.858
MROH2B	-0.75	0.182452	0.838
NXT2	-0.75	0.182451	0.838
OR10Z1	-0.75	0.182451	0.838
PCDH17	-0.75	0.182451	0.838
PRODH	-0.75	0.205364	0.858
RAB6B	-0.75	0.182452	0.838
RET	-0.75	0.182452	0.838
RPA4	-0.75	0.182452	0.838
RPL18	-0.75	0.297297	0.9
RPL5	-0.75	0.261886	0.888
SALL2	-0.75	0.182452	0.838
SCG3	-0.75	0.182452	0.838
SCN11A	-0.75	0.205364	0.858
TBC1D7	-0.75	0.182451	0.838
TNFSF11	-0.75	0.182451	0.838
TNP1	-0.75	0.182451	0.838
URAD	-0.75	0.205364	0.858
VRK1	-0.75	0.205364	0.858
ZNF133	-0.75	0.182452	0.838
ZNF85	-0.75	0.182452	0.838
ABCF3	-0.74	0.18817	0.839
ARAF	-0.74	0.18817	0.839
ASB1	-0.74	0.18817	0.839
BTN1A1	-0.74	0.18817	0.839
C14orf166	-0.74	0.18817	0.839
C5orf42	-0.74	0.18817	0.839
CIAO1	-0.74	0.211255	0.859
CNTD1	-0.74	0.18817	0.839
COMTD1	-0.74	0.18817	0.839
CTDSP1	-0.74	0.18817	0.839
DCAF13	-0.74	0.18817	0.839
DEFB130	-0.74	0.18817	0.839
DST	-0.74	0.18817	0.839
FAM118A	-0.74	0.18817	0.839
FBXL6	-0.74	0.18817	0.839
FBXW9	-0.74	0.211255	0.859
FKBP7	-0.74	0.18817	0.839

GART	-0.74	0.18817	0.839
GTF2H4	-0.74	0.18817	0.839
HBB	-0.74	0.18817	0.839
HMGXB4	-0.74	0.18817	0.839
HSD17B1	-0.74	0.211254	0.859
IL12RB2	-0.74	0.18817	0.839
IQCJ-SCHIP	-0.74	0.18817	0.839
LCK	-0.74	0.18817	0.839
LRFN5	-0.74	0.18817	0.839
MAGEB6	-0.74	0.18817	0.839
MLNR	-0.74	0.18817	0.839
MTERF	-0.74	0.18817	0.839
NAT10	-0.74	0.211255	0.859
OR5H6	-0.74	0.18817	0.839
PLAGL2	-0.74	0.18817	0.839
PPP1R14D	-0.74	0.18817	0.839
PRG4	-0.74	0.18817	0.839
PSME4	-0.74	0.211254	0.859
PTCHD3	-0.74	0.18817	0.839
RANBP6	-0.74	0.18817	0.839
SIX3	-0.74	0.18817	0.839
SLC30A1	-0.74	0.18817	0.839
SRPK3	-0.74	0.211255	0.859
TFF2	-0.74	0.18817	0.839
TMEM256	-0.74	0.18817	0.839
TMEM47	-0.74	0.18817	0.839
TRIM25	-0.74	0.18817	0.839
TSPYL2	-0.74	0.18817	0.839
TTC25	-0.74	0.18817	0.839
UBE2E3	-0.74	0.18817	0.839
UBE2T	-0.74	0.18817	0.839
UBQLN3	-0.74	0.18817	0.839
UCP2	-0.74	0.18817	0.839
ZNF18	-0.74	0.18817	0.839
ADAMTS1	-0.73	0.19403	0.846
ANKRD7	-0.73	0.194029	0.846
CCSER1	-0.73	0.194029	0.846
CDCA8	-0.73	0.274334	0.888
CEACAM21	-0.73	0.217334	0.868
CLASRP	-0.73	0.194029	0.846
CLDN1	-0.73	0.19403	0.846
DCAF17	-0.73	0.19403	0.846
DCDC2B	-0.73	0.19403	0.846
DRD4	-0.73	0.194029	0.846
ERRFI1	-0.73	0.19403	0.846
ETV5	-0.73	0.19403	0.846
FAM171A2	-0.73	0.194029	0.846

FAM24A	-0.73	0.194029	0.846
FBXO8	-0.73	0.194029	0.846
FGG	-0.73	0.19403	0.846
GAGE12J	-0.73	0.309924	0.903
HOXC8	-0.73	0.194029	0.846
IRF6	-0.73	0.194029	0.846
KRTAP10-3	-0.73	0.243756	0.879
LACC1	-0.73	0.19403	0.846
LACTBL1	-0.73	0.217335	0.868
LAIR2	-0.73	0.194029	0.846
LCE1B	-0.73	0.194029	0.846
MARS	-0.73	0.309923	0.903
MCM6	-0.73	0.19403	0.846
METTL24	-0.73	0.194029	0.846
NOS1AP	-0.73	0.194029	0.846
PCDHA2	-0.73	0.19403	0.846
PLEKHJ1	-0.73	0.194029	0.846
PM20D2	-0.73	0.217334	0.868
PROZ	-0.73	0.194029	0.846
RDH5	-0.73	0.194029	0.846
REEP3	-0.73	0.194029	0.846
RNF214	-0.73	0.217335	0.868
SEMA4C	-0.73	0.194029	0.846
SGK223	-0.73	0.194029	0.846
SNRPG	-0.73	0.352004	0.914
TACC1	-0.73	0.19403	0.846
TBK1	-0.73	0.19403	0.846
TCF7L2	-0.73	0.19403	0.846
THPO	-0.73	0.194029	0.846
TMBIM1	-0.73	0.194029	0.846
TMEM42	-0.73	0.19403	0.846
XAB2	-0.73	0.309924	0.903
XKR3	-0.73	0.194029	0.846
ZNF573	-0.73	0.194029	0.846
ZNF92	-0.73	0.194029	0.846
ACTG2	-0.72	0.223557	0.868
ADD1	-0.72	0.223557	0.868
ADRA1A	-0.72	0.200074	0.848
ARHGAP20	-0.72	0.200074	0.848
ASAH2B	-0.72	0.200074	0.848
ASCL4	-0.72	0.200074	0.848
BCAR1	-0.72	0.200074	0.848
C19orf68	-0.72	0.200074	0.848
CASZ1	-0.72	0.223557	0.868
CEND1	-0.72	0.223557	0.868
COX4I1	-0.72	0.250106	0.879
CSF3	-0.72	0.200074	0.848

CTU1	-0.72	0.200074	0.848
DBH	-0.72	0.200074	0.848
DGKH	-0.72	0.200074	0.848
DNAJB7	-0.72	0.200074	0.848
DNAJC2	-0.72	0.250106	0.879
DPT	-0.72	0.200074	0.848
DUSP12	-0.72	0.200074	0.848
ERCC3	-0.72	0.223557	0.868
FAM46A	-0.72	0.223557	0.868
FAM71D	-0.72	0.200074	0.848
FBXL17	-0.72	0.250106	0.879
FOXL2	-0.72	0.200074	0.848
G3BP2	-0.72	0.200074	0.848
GYPE	-0.72	0.280799	0.891
HOXB3	-0.72	0.200074	0.848
HUS1	-0.72	0.200074	0.848
ITGAX	-0.72	0.223557	0.868
KRTAP19-8	-0.72	0.200074	0.848
LIPH	-0.72	0.200074	0.848
LRRC4	-0.72	0.200074	0.848
LUC7L3	-0.72	0.316411	0.904
MFSD9	-0.72	0.200074	0.848
MOCS1	-0.72	0.200074	0.848
MSI1	-0.72	0.200074	0.848
MZF1	-0.72	0.200074	0.848
NAPRT1	-0.72	0.200074	0.848
OFD1	-0.72	0.200074	0.848
PIP5K1C	-0.72	0.200074	0.848
RAPSN	-0.72	0.223557	0.868
RNASE13	-0.72	0.200074	0.848
RPL15	-0.72	0.200074	0.848
SAMD13	-0.72	0.200074	0.848
SGTA	-0.72	0.200074	0.848
SPATA31A7	-0.72	0.200074	0.848
SYDE2	-0.72	0.250106	0.879
TMEM194A	-0.72	0.200074	0.848
TMEM50A	-0.72	0.200074	0.848
TMTC3	-0.72	0.200074	0.848
TNFAIP2	-0.72	0.223557	0.868
TOR1A	-0.72	0.200074	0.848
TRIM64	-0.72	0.200074	0.848
TUT1	-0.72	0.223557	0.868
ZNF622	-0.72	0.223557	0.868
ZNF660	-0.72	0.200074	0.848
ABCB8	-0.71	0.229797	0.871
ADCY5	-0.71	0.206238	0.858
BUB1B	-0.71	0.206239	0.858

CCIN	-0.71	0.229797	0.871
CEP135	-0.71	0.206238	0.858
CHMP4B	-0.71	0.229796	0.871
COMT	-0.71	0.256539	0.886
CRIP3	-0.71	0.229796	0.871
CSTF3	-0.71	0.206239	0.858
CXXC11	-0.71	0.206238	0.858
DCPS	-0.71	0.229797	0.871
DDX20	-0.71	0.229797	0.871
FCRL3	-0.71	0.206238	0.858
FKBP4	-0.71	0.206239	0.858
FOXD2	-0.71	0.206238	0.858
GDF2	-0.71	0.229797	0.871
GDPD2	-0.71	0.206238	0.858
GPR26	-0.71	0.206238	0.858
GSTO1	-0.71	0.206239	0.858
GTDC1	-0.71	0.229796	0.871
GYG2	-0.71	0.206239	0.858
HBE1	-0.71	0.206239	0.858
ITM2C	-0.71	0.206239	0.858
KCNN2	-0.71	0.206239	0.858
KRTAP9-6	-0.71	0.206239	0.858
MFRP	-0.71	0.206238	0.858
OLFML3	-0.71	0.206238	0.858
PIGR	-0.71	0.206238	0.858
PIWIL1	-0.71	0.206238	0.858
PRAMEF5	-0.71	0.206239	0.858
PSMC3IP	-0.71	0.206239	0.858
RAB11FIP3	-0.71	0.206239	0.858
REPS1	-0.71	0.206239	0.858
RGS16	-0.71	0.206239	0.858
SP4	-0.71	0.206239	0.858
STEAP2	-0.71	0.206239	0.858
TAX1BP1	-0.71	0.206239	0.858
TLR5	-0.71	0.206238	0.858
TNFRSF9	-0.71	0.206238	0.858
TOR2A	-0.71	0.206239	0.858
XCL2	-0.71	0.206238	0.858
ZBTB7C	-0.71	0.206239	0.858
ATP6V1B2	-0.7	0.212513	0.859
C2orf91	-0.7	0.212514	0.859
C3orf72	-0.7	0.212514	0.859
CEP350	-0.7	0.236326	0.878
CPE	-0.7	0.212514	0.859
CRHR2	-0.7	0.236325	0.878
CUL2	-0.7	0.212513	0.859
CYP26C1	-0.7	0.212514	0.859

FAM115A	-0.7	0.212514	0.859
FAM129A	-0.7	0.212513	0.859
FBXO9	-0.7	0.212514	0.859
GPA33	-0.7	0.212514	0.859
H2AFB1	-0.7	0.212513	0.859
HERC6	-0.7	0.212514	0.859
HIGD2A	-0.7	0.212513	0.859
HLX	-0.7	0.212514	0.859
HMG2	-0.7	0.236325	0.878
HNRNPM	-0.7	0.212514	0.859
HTR7	-0.7	0.212514	0.859
ISCU	-0.7	0.329607	0.908
KIF14	-0.7	0.212513	0.859
KRTAP21-3	-0.7	0.212513	0.859
KRTAP26-1	-0.7	0.212513	0.859
KRTAP5-3	-0.7	0.212514	0.859
L3HYPDH	-0.7	0.212513	0.859
LONRF3	-0.7	0.212513	0.859
MPP4	-0.7	0.212514	0.859
NIPSNAP3A	-0.7	0.212513	0.859
NPRL2	-0.7	0.212514	0.859
NR1D2	-0.7	0.212513	0.859
NRBP1	-0.7	0.236325	0.878
OR10G9	-0.7	0.212514	0.859
OR2T4	-0.7	0.212514	0.859
OR5AS1	-0.7	0.212513	0.859
PBX3	-0.7	0.212514	0.859
PKHD1	-0.7	0.212514	0.859
PPP2R5E	-0.7	0.212514	0.859
PROC	-0.7	0.212514	0.859
RAB3A	-0.7	0.212514	0.859
RABAC1	-0.7	0.212513	0.859
RBM18	-0.7	0.212514	0.859
RBM20	-0.7	0.212514	0.859
RNF222	-0.7	0.212514	0.859
S100A2	-0.7	0.212513	0.859
SDF4	-0.7	0.212514	0.859
SETBP1	-0.7	0.212514	0.859
SLC35F1	-0.7	0.236325	0.878
SLC35G5	-0.7	0.212514	0.859
SLC4A5	-0.7	0.212513	0.859
SMIM4	-0.7	0.212514	0.859
SOAT2	-0.7	0.212513	0.859
SOCS2	-0.7	0.212514	0.859
SOX12	-0.7	0.263099	0.888
SPRR4	-0.7	0.212514	0.859
STMN4	-0.7	0.212514	0.859

TBC1D1	-0.7	0.212513	0.859
TBX3	-0.7	0.236325	0.878
TMPRSS11E	-0.7	0.212513	0.859
TNS4	-0.7	0.212514	0.859
TRANK1	-0.7	0.212513	0.859
TRPM3	-0.7	0.212514	0.859
WBP4	-0.7	0.212514	0.859
WDR76	-0.7	0.212513	0.859
XRCC5	-0.7	0.236326	0.878
YRDC	-0.7	0.294033	0.9
ZBTB11	-0.7	0.236326	0.878
ZNF837	-0.7	0.212514	0.859
ABCA8	-0.69	0.242921	0.879
ABCG8	-0.69	0.21898	0.868
AKAP14	-0.69	0.242921	0.879
AP3M2	-0.69	0.21898	0.868
AQP9	-0.69	0.21898	0.868
BSCL2	-0.69	0.242921	0.879
C14orf159	-0.69	0.21898	0.868
CD209	-0.69	0.21898	0.868
CD82	-0.69	0.24292	0.879
CNPY2	-0.69	0.21898	0.868
DTX1	-0.69	0.21898	0.868
FAM157A	-0.69	0.21898	0.868
FAM220A	-0.69	0.21898	0.868
FAM72A	-0.69	0.21898	0.868
FAM96B	-0.69	0.21898	0.868
FCER1G	-0.69	0.21898	0.868
FGF10	-0.69	0.21898	0.868
GEMIN4	-0.69	0.21898	0.868
HOXD4	-0.69	0.21898	0.868
IL1RL2	-0.69	0.21898	0.868
IMP4	-0.69	0.300689	0.9
INS	-0.69	0.218979	0.868
JOSD2	-0.69	0.21898	0.868
KANK4	-0.69	0.21898	0.868
KIAA1328	-0.69	0.218979	0.868
KLKB1	-0.69	0.21898	0.868
KRBOX1	-0.69	0.21898	0.868
MAN1B1	-0.69	0.21898	0.868
MAPK13	-0.69	0.242921	0.879
MARCO	-0.69	0.242921	0.879
MIIP	-0.69	0.242921	0.879
MRGPRX2	-0.69	0.21898	0.868
MX1	-0.69	0.242921	0.879
NCCRP1	-0.69	0.21898	0.868
NPFFR2	-0.69	0.218979	0.868

NUBP2	-0.69	0.21898	0.868
OAF	-0.69	0.21898	0.868
PRKCG	-0.69	0.269827	0.888
PRMT1	-0.69	0.269827	0.888
PSMA4	-0.69	0.242921	0.879
RCOR2	-0.69	0.21898	0.868
RNF10	-0.69	0.242921	0.879
SAC3D1	-0.69	0.21898	0.868
SENP5	-0.69	0.21898	0.868
SIRT3	-0.69	0.21898	0.868
SPON2	-0.69	0.21898	0.868
SYF2	-0.69	0.21898	0.868
TAF4B	-0.69	0.21898	0.868
TUBB2A	-0.69	0.218979	0.868
TUBG1	-0.69	0.269827	0.888
TUBGCP6	-0.69	0.24292	0.879
TXNDC5	-0.69	0.21898	0.868
VWCE	-0.69	0.218979	0.868
WNK1	-0.69	0.242921	0.879
ZFP91	-0.69	0.21898	0.868
ZIC1	-0.69	0.269827	0.888
AKT3	-0.68	0.225496	0.868
ALG2	-0.68	0.249616	0.879
ATP1A2	-0.68	0.249616	0.879
BCAS3	-0.68	0.225496	0.868
BDH2	-0.68	0.225496	0.868
BRK1	-0.68	0.225496	0.868
C12orf66	-0.68	0.225496	0.868
C17orf47	-0.68	0.225496	0.868
C19orf70	-0.68	0.225496	0.868
C6orf165	-0.68	0.225496	0.868
CCSER2	-0.68	0.225496	0.868
CREB3L4	-0.68	0.249616	0.879
CYP4F8	-0.68	0.225496	0.868
DCTN1	-0.68	0.225496	0.868
DEFB121	-0.68	0.225496	0.868
DIAPH3	-0.68	0.276574	0.891
DNAJC9	-0.68	0.249617	0.879
DSP	-0.68	0.225496	0.868
FAM109A	-0.68	0.225496	0.868
FAM50A	-0.68	0.384992	0.923
FGF5	-0.68	0.249616	0.879
FRMPD1	-0.68	0.225496	0.868
GJA5	-0.68	0.225496	0.868
GLI3	-0.68	0.225496	0.868
GREM2	-0.68	0.249616	0.879
GRK1	-0.68	0.249616	0.879

HLA-DQB2	-0.68	0.225497	0.868
HSD17B6	-0.68	0.225496	0.868
IMPA2	-0.68	0.225496	0.868
INPP5B	-0.68	0.225496	0.868
ITPR1	-0.68	0.225496	0.868
KCTD19	-0.68	0.249616	0.879
KIF15	-0.68	0.225496	0.868
KLHL24	-0.68	0.249616	0.879
LEFTY1	-0.68	0.225496	0.868
LRRC57	-0.68	0.225496	0.868
MAP3K19	-0.68	0.225496	0.868
MAP4K4	-0.68	0.225497	0.868
MTRNR2L5	-0.68	0.249616	0.879
MYO1G	-0.68	0.225496	0.868
MYOM1	-0.68	0.225496	0.868
NDUFA4L2	-0.68	0.225496	0.868
NPAS2	-0.68	0.225496	0.868
NUS1	-0.68	0.225496	0.868
OCM2	-0.68	0.225496	0.868
OLR1	-0.68	0.225496	0.868
OR6Q1	-0.68	0.225497	0.868
PCDHB2	-0.68	0.225496	0.868
PLRG1	-0.68	0.249616	0.879
POLR1D	-0.68	0.225497	0.868
RIMKLA	-0.68	0.225496	0.868
RNF216	-0.68	0.225496	0.868
RWDD2A	-0.68	0.225497	0.868
SORCS3	-0.68	0.225496	0.868
SOWAHD	-0.68	0.225496	0.868
SSBP4	-0.68	0.225497	0.868
SV2C	-0.68	0.225496	0.868
SYT2	-0.68	0.249617	0.879
SZT2	-0.68	0.225496	0.868
TAS2R9	-0.68	0.225496	0.868
TBC1D22A	-0.68	0.225496	0.868
TFDP1	-0.68	0.249616	0.879
TGDS	-0.68	0.225496	0.868
TGFA	-0.68	0.225497	0.868
TRIM9	-0.68	0.225496	0.868
WAS	-0.68	0.225496	0.868
ZFP14	-0.68	0.225496	0.868
ZIC5	-0.68	0.249616	0.879
ZNF451	-0.68	0.249616	0.879
ZNF705D	-0.68	0.225496	0.868
ABCA1	-0.67	0.232222	0.871
AIDA	-0.67	0.256435	0.886
APOBEC3H	-0.67	0.232222	0.871

BIN2	-0.67	0.232222	0.871
C15orf41	-0.67	0.232222	0.871
C1orf51	-0.67	0.232222	0.871
C7orf25	-0.67	0.232222	0.871
CCDC135	-0.67	0.232222	0.871
CCDC169	-0.67	0.232222	0.871
CEACAM3	-0.67	0.232222	0.871
CHD5	-0.67	0.232222	0.871
CLHC1	-0.67	0.232222	0.871
DDX55	-0.67	0.256435	0.886
DHX34	-0.67	0.232222	0.871
DRC1	-0.67	0.232222	0.871
EIF5AL1	-0.67	0.232222	0.871
FGF2	-0.67	0.232222	0.871
FOXD4L4	-0.67	0.232222	0.871
GGNBP2	-0.67	0.232222	0.871
GK	-0.67	0.232222	0.871
HOXB2	-0.67	0.232222	0.871
JAG1	-0.67	0.232222	0.871
JOSD1	-0.67	0.232222	0.871
METTL18	-0.67	0.232222	0.871
MNS1	-0.67	0.256435	0.886
MTTP	-0.67	0.232222	0.871
NAALADL1	-0.67	0.256435	0.886
NFE2L1	-0.67	0.232222	0.871
NHLH1	-0.67	0.232222	0.871
OLFML2B	-0.67	0.232222	0.871
OR51D1	-0.67	0.232222	0.871
PHACTR1	-0.67	0.232222	0.871
PRAMEF6	-0.67	0.232222	0.871
PRR5-ARHC	-0.67	0.256435	0.886
PRRT1	-0.67	0.232222	0.871
PSMA8	-0.67	0.256435	0.886
PTH	-0.67	0.232222	0.871
RBM15	-0.67	0.232222	0.871
RPL36	-0.67	0.314494	0.903
SEC14L1	-0.67	0.232222	0.871
SERINC1	-0.67	0.232222	0.871
SHOX	-0.67	0.232222	0.871
SLC25A43	-0.67	0.232222	0.871
SLCO4C1	-0.67	0.256435	0.886
SLX1B	-0.67	0.232222	0.871
SMIM23	-0.67	0.232222	0.871
SPANXB2	-0.67	0.232222	0.871
STRC	-0.67	0.232222	0.871
SUDS3	-0.67	0.256435	0.886
THNSL2	-0.67	0.232222	0.871

TMEM186	-0.67	0.232222	0.871
TNFRSF8	-0.67	0.232222	0.871
TRAPPC5	-0.67	0.232222	0.871
UBXN10	-0.67	0.232222	0.871
VLDLR	-0.67	0.232222	0.871
VRK3	-0.67	0.232222	0.871
WTIP	-0.67	0.232222	0.871
ZNF670	-0.67	0.232222	0.871
ACTB	-0.66	0.263421	0.888
ATN1	-0.66	0.239085	0.878
BMP15	-0.66	0.239085	0.878
CCAR2	-0.66	0.26342	0.888
CCDC181	-0.66	0.239086	0.878
CFP	-0.66	0.239086	0.878
CHGB	-0.66	0.263421	0.888
CNOT7	-0.66	0.239086	0.878
COL6A1	-0.66	0.239085	0.878
DMXL1	-0.66	0.239085	0.878
DNAJB5	-0.66	0.239085	0.878
DNAJC5	-0.66	0.239086	0.878
DOCK7	-0.66	0.239086	0.878
DQX1	-0.66	0.239085	0.878
ELAVL4	-0.66	0.239085	0.878
EPM2A	-0.66	0.239085	0.878
FAM115C	-0.66	0.239086	0.878
FAM9C	-0.66	0.263421	0.888
GALNT2	-0.66	0.239085	0.878
GCSAM	-0.66	0.239085	0.878
GEMIN6	-0.66	0.239086	0.878
HNRNPDL	-0.66	0.263421	0.888
KRTAP12-1	-0.66	0.239086	0.878
KRTAP3-3	-0.66	0.239086	0.878
KRTAP5-11	-0.66	0.239085	0.878
LAGE3	-0.66	0.26342	0.888
LIMS1	-0.66	0.239085	0.878
MYO5B	-0.66	0.239086	0.878
NPFF	-0.66	0.239086	0.878
OGDH	-0.66	0.239086	0.878
OR51Q1	-0.66	0.263421	0.888
OR6C1	-0.66	0.239086	0.878
PAK1IP1	-0.66	0.26342	0.888
PDCD4	-0.66	0.239085	0.878
PLS3	-0.66	0.239085	0.878
PNMA1	-0.66	0.239086	0.878
PPARA	-0.66	0.239085	0.878
PSPC1	-0.66	0.239085	0.878
PTX4	-0.66	0.239085	0.878

RIF1	-0.66	0.239086	0.878
RNASEH2B	-0.66	0.239086	0.878
SAPCD1	-0.66	0.239085	0.878
SH2D4B	-0.66	0.239085	0.878
SLC13A4	-0.66	0.26342	0.888
SLX1A	-0.66	0.239086	0.878
SNCB	-0.66	0.26342	0.888
SPATA8	-0.66	0.26342	0.888
SST	-0.66	0.239085	0.878
ST3GAL6	-0.66	0.239085	0.878
STAG2	-0.66	0.239086	0.878
SYTL3	-0.66	0.239086	0.878
TCEA1	-0.66	0.26342	0.888
TCEAL3	-0.66	0.263421	0.888
TFAP2D	-0.66	0.26342	0.888
TMEM67	-0.66	0.239085	0.878
TTYH3	-0.66	0.26342	0.888
ZNF396	-0.66	0.239085	0.878
ACAP1	-0.65	0.246043	0.879
AGAP4	-0.65	0.246043	0.879
ATM	-0.65	0.246043	0.879
C1QL4	-0.65	0.270513	0.888
CCDC102A	-0.65	0.246043	0.879
CCNO	-0.65	0.246043	0.879
CFH	-0.65	0.246043	0.879
CLDN24	-0.65	0.246043	0.879
CNTNAP2	-0.65	0.270513	0.888
CRTC1	-0.65	0.246043	0.879
CSRP2BP	-0.65	0.246043	0.879
CYP4F11	-0.65	0.246043	0.879
ELP5	-0.65	0.246043	0.879
FAM127B	-0.65	0.246043	0.879
FBXW11	-0.65	0.246043	0.879
FGD2	-0.65	0.246043	0.879
FOXD4L2	-0.65	0.246043	0.879
FOXN4	-0.65	0.246043	0.879
FPGS	-0.65	0.246043	0.879
FREM1	-0.65	0.246043	0.879
GFRA3	-0.65	0.246043	0.879
GNG12	-0.65	0.246043	0.879
GOLGA6L10	-0.65	0.246043	0.879
HBM	-0.65	0.246043	0.879
HEBP1	-0.65	0.246043	0.879
HIST1H4D	-0.65	0.270513	0.888
HMBOX1	-0.65	0.246043	0.879
HSD17B10	-0.65	0.270512	0.888
IGF2	-0.65	0.270512	0.888

IVD	-0.65	0.246043	0.879
KBTBD7	-0.65	0.246043	0.879
KLHL40	-0.65	0.246043	0.879
KNDC1	-0.65	0.270513	0.888
KRTAP20-1	-0.65	0.246043	0.879
LAPTM5	-0.65	0.246043	0.879
LOC100506	-0.65	0.270513	0.888
NAA30	-0.65	0.246043	0.879
NEURL2	-0.65	0.270513	0.888
NIPBL	-0.65	0.297757	0.9
NUGGC	-0.65	0.270512	0.888
OLIG2	-0.65	0.246043	0.879
OR7E24	-0.65	0.246043	0.879
OR7G3	-0.65	0.270513	0.888
OTUD7B	-0.65	0.246043	0.879
PCNX	-0.65	0.270512	0.888
PRRG2	-0.65	0.246043	0.879
PRRG3	-0.65	0.246043	0.879
RAG2	-0.65	0.246043	0.879
SDCBP	-0.65	0.246043	0.879
SEC61G	-0.65	0.246043	0.879
SLIT2	-0.65	0.246043	0.879
STK16	-0.65	0.246043	0.879
TCAP	-0.65	0.246043	0.879
TCP11	-0.65	0.246043	0.879
TMIGD1	-0.65	0.246043	0.879
TRIM35	-0.65	0.246043	0.879
TTL	-0.65	0.246043	0.879
U2SURP	-0.65	0.297757	0.9
WDR31	-0.65	0.246043	0.879
ZC3H11A	-0.65	0.246043	0.879
ZNF710	-0.65	0.246043	0.879
ZNF800	-0.65	0.246043	0.879
ZP3	-0.65	0.246043	0.879
ACO1	-0.64	0.25315	0.879
ACTA1	-0.64	0.25315	0.879
ADAT2	-0.64	0.25315	0.879
ASPN	-0.64	0.25315	0.879
ATP6V0E1	-0.64	0.25315	0.879
BBS2	-0.64	0.25315	0.879
BZW2	-0.64	0.253149	0.879
CARNS1	-0.64	0.253149	0.879
CBFB	-0.64	0.25315	0.879
CCDC125	-0.64	0.25315	0.879
CCL8	-0.64	0.25315	0.879
CDKN2B	-0.64	0.25315	0.879
CMTM1	-0.64	0.25315	0.879

CUL4A	-0.64	0.25315	0.879
DARC	-0.64	0.25315	0.879
DNAAF2	-0.64	0.25315	0.879
DNAJC16	-0.64	0.25315	0.879
DNAL4	-0.64	0.25315	0.879
EGLN3	-0.64	0.25315	0.879
ETFA	-0.64	0.25315	0.879
FAM189B	-0.64	0.25315	0.879
FNDC8	-0.64	0.277763	0.891
GAL3ST1	-0.64	0.25315	0.879
GLTPD2	-0.64	0.277763	0.891
GMPS	-0.64	0.335971	0.908
GPR150	-0.64	0.277763	0.891
HIST1H2AJ	-0.64	0.25315	0.879
HIST1H4C	-0.64	0.25315	0.879
HPSE	-0.64	0.25315	0.879
HS3ST1	-0.64	0.25315	0.879
IFITM1	-0.64	0.253149	0.879
KBTBD2	-0.64	0.25315	0.879
KCNK1	-0.64	0.25315	0.879
KCP	-0.64	0.25315	0.879
KIAA1467	-0.64	0.25315	0.879
LMLN	-0.64	0.25315	0.879
MAU2	-0.64	0.335972	0.908
MB21D2	-0.64	0.25315	0.879
MCAM	-0.64	0.25315	0.879
MEI1	-0.64	0.25315	0.879
MRPL43	-0.64	0.25315	0.879
MYLK4	-0.64	0.25315	0.879
NAP1L2	-0.64	0.25315	0.879
NFIL3	-0.64	0.25315	0.879
NSMAF	-0.64	0.25315	0.879
NUDT11	-0.64	0.25315	0.879
OR10G8	-0.64	0.25315	0.879
OR7A5	-0.64	0.277763	0.891
PCGF6	-0.64	0.253149	0.879
PGRMC1	-0.64	0.253149	0.879
PIK3AP1	-0.64	0.25315	0.879
PLAC8	-0.64	0.25315	0.879
PPP6R2	-0.64	0.253149	0.879
PZP	-0.64	0.277763	0.891
RPP25	-0.64	0.25315	0.879
RXRA	-0.64	0.25315	0.879
SERPINB5	-0.64	0.253149	0.879
SGSH	-0.64	0.277763	0.891
SLC22A17	-0.64	0.253149	0.879
SLC7A11	-0.64	0.25315	0.879

SPIB	-0.64	0.25315	0.879
TEC	-0.64	0.25315	0.879
TEX36	-0.64	0.25315	0.879
TGM3	-0.64	0.253149	0.879
TOPAZ1	-0.64	0.25315	0.879
TRIM7	-0.64	0.25315	0.879
UXT	-0.64	0.25315	0.879
VPS9D1	-0.64	0.25315	0.879
XRRA1	-0.64	0.25315	0.879
ZNF705E	-0.64	0.4127	0.93
ZNF80	-0.64	0.253149	0.879
ABCA7	-0.63	0.260413	0.886
ADORA2B	-0.63	0.260413	0.886
ARHGAP4	-0.63	0.260413	0.886
BCL9L	-0.63	0.260412	0.886
C11orf87	-0.63	0.260413	0.886
CCDC86	-0.63	0.260413	0.886
CLEC4M	-0.63	0.260413	0.886
CNOT3	-0.63	0.312477	0.903
COX5A	-0.63	0.2851	0.894
CRTAM	-0.63	0.2851	0.894
CTAGE1	-0.63	0.260412	0.886
CYP4V2	-0.63	0.260413	0.886
DDX25	-0.63	0.260413	0.886
DEFB125	-0.63	0.260413	0.886
DGCR8	-0.63	0.260413	0.886
EFCAB5	-0.63	0.260413	0.886
GFI1	-0.63	0.260413	0.886
GLRA4	-0.63	0.260412	0.886
HAUS7	-0.63	0.260413	0.886
HORMAD2	-0.63	0.260413	0.886
ITIH6	-0.63	0.260412	0.886
KSR2	-0.63	0.260413	0.886
LEF1	-0.63	0.260413	0.886
MAP2K2	-0.63	0.260412	0.886
METTL12	-0.63	0.260413	0.886
MIS12	-0.63	0.260413	0.886
MSL3	-0.63	0.285099	0.894
MYO19	-0.63	0.260413	0.886
NANOS1	-0.63	0.2851	0.894
NRGN	-0.63	0.260413	0.886
OR11A1	-0.63	0.260412	0.886
OR2L3	-0.63	0.260413	0.886
PCDHB14	-0.63	0.260413	0.886
PDE2A	-0.63	0.260413	0.886
PIM1	-0.63	0.285099	0.894
PRAMEF21	-0.63	0.2851	0.894

PTK7	-0.63	0.2851	0.894
RAB4A	-0.63	0.260412	0.886
RNF175	-0.63	0.260413	0.886
RPL10A	-0.63	0.2851	0.894
SLC38A9	-0.63	0.260413	0.886
SNAPC3	-0.63	0.260413	0.886
SPATA31A2	-0.63	0.260413	0.886
SPATS1	-0.63	0.260413	0.886
SRP14	-0.63	0.260413	0.886
STIM1	-0.63	0.260412	0.886
TCAF1	-0.63	0.2851	0.894
TF	-0.63	0.260413	0.886
TFAP2A	-0.63	0.260413	0.886
TMEM176B	-0.63	0.260413	0.886
TMEM223	-0.63	0.260413	0.886
TMPRSS11A	-0.63	0.260413	0.886
TRABD2A	-0.63	0.260413	0.886
TRIM3	-0.63	0.260413	0.886
TUB	-0.63	0.260413	0.886
TXNRD1	-0.63	0.2851	0.894
ZG16	-0.63	0.260413	0.886
ZNF121	-0.63	0.260413	0.886
ZSCAN12	-0.63	0.378824	0.923
ADAM2	-0.62	0.267859	0.888
ANKDD1B	-0.62	0.267858	0.888
ARHGAP39	-0.62	0.292508	0.898
BCAR3	-0.62	0.267859	0.888
C12orf45	-0.62	0.267858	0.888
C16orf80	-0.62	0.292507	0.898
CCDC170	-0.62	0.267858	0.888
CD3EAP	-0.62	0.267858	0.888
CSTF1	-0.62	0.267858	0.888
CUL3	-0.62	0.267858	0.888
CXorf27	-0.62	0.267859	0.888
CYP2A6	-0.62	0.267858	0.888
DDX1	-0.62	0.267859	0.888
EGR3	-0.62	0.267859	0.888
ENAM	-0.62	0.267858	0.888
ERAS	-0.62	0.267858	0.888
EXOC5	-0.62	0.267858	0.888
FAM109B	-0.62	0.320042	0.906
FIZ1	-0.62	0.292507	0.898
GLIS1	-0.62	0.267859	0.888
GPR1	-0.62	0.267858	0.888
GPR152	-0.62	0.292507	0.898
HDAC4	-0.62	0.267859	0.888
IFIT2	-0.62	0.267858	0.888

IRX4	-0.62	0.267859	0.888
KANK1	-0.62	0.267858	0.888
LMOD3	-0.62	0.320042	0.906
LNX1	-0.62	0.267859	0.888
LRRIQ3	-0.62	0.267859	0.888
MROH6	-0.62	0.267859	0.888
NPRL3	-0.62	0.320043	0.906
NVL	-0.62	0.320043	0.906
NWD1	-0.62	0.267859	0.888
OR51G2	-0.62	0.267858	0.888
PDP1	-0.62	0.267858	0.888
PGR	-0.62	0.267859	0.888
PHLDA2	-0.62	0.267859	0.888
PKD1L1	-0.62	0.267858	0.888
PLAG1	-0.62	0.267859	0.888
PSMD4	-0.62	0.320042	0.906
PTMS	-0.62	0.292507	0.898
SALL4	-0.62	0.267859	0.888
SCN9A	-0.62	0.267859	0.888
SECTM1	-0.62	0.267859	0.888
SEMA3A	-0.62	0.267858	0.888
SLC4A1AP	-0.62	0.267859	0.888
SNAPC1	-0.62	0.267858	0.888
SP6	-0.62	0.267858	0.888
TARDBP	-0.62	0.267859	0.888
TDG	-0.62	0.267858	0.888
TM4SF20	-0.62	0.267858	0.888
TMBIM4	-0.62	0.267859	0.888
TMCO5A	-0.62	0.267859	0.888
TMEM168	-0.62	0.267858	0.888
TMEM255A	-0.62	0.267858	0.888
TNS3	-0.62	0.267859	0.888
TPO	-0.62	0.267859	0.888
UBXN7	-0.62	0.267858	0.888
USP17L13	-0.62	0.267859	0.888
XPO1	-0.62	0.386266	0.923
ZNF526	-0.62	0.320042	0.906
ZWINT	-0.62	0.292508	0.898
ACBD6	-0.61	0.275417	0.888
ADIPOQ	-0.61	0.275417	0.888
AK1	-0.61	0.300139	0.9
AMER1	-0.61	0.275417	0.888
AP2A2	-0.61	0.275417	0.888
ARNTL2	-0.61	0.275417	0.888
BARD1	-0.61	0.327637	0.908
C19orf25	-0.61	0.275417	0.888
C19orf54	-0.61	0.300139	0.9

C1orf137	-0.61	0.275417	0.888
C1QA	-0.61	0.275417	0.888
C3orf56	-0.61	0.275418	0.888
C4orf22	-0.61	0.300138	0.9
CACYBP	-0.61	0.275417	0.888
CCDC138	-0.61	0.275417	0.888
CDK5RAP3	-0.61	0.275417	0.888
CHDC2	-0.61	0.275417	0.888
CLEC9A	-0.61	0.275418	0.888
CNTN5	-0.61	0.275417	0.888
CPO	-0.61	0.275418	0.888
CUBN	-0.61	0.275417	0.888
CXCL3	-0.61	0.275418	0.888
DAPK2	-0.61	0.300138	0.9
DNMBP	-0.61	0.275417	0.888
ECD	-0.61	0.327637	0.908
EEF1A2	-0.61	0.275417	0.888
EXOSC8	-0.61	0.300138	0.9
FAF1	-0.61	0.275417	0.888
FAM156A	-0.61	0.275417	0.888
FAM156B	-0.61	0.275417	0.888
FAM174A	-0.61	0.275417	0.888
GDA	-0.61	0.275417	0.888
GPRIN3	-0.61	0.275417	0.888
HABP2	-0.61	0.275417	0.888
ITPRIPL2	-0.61	0.275417	0.888
KIAA1024	-0.61	0.275417	0.888
KLHDC2	-0.61	0.275418	0.888
LIFR	-0.61	0.275417	0.888
LRRK2	-0.61	0.275417	0.888
MAGEL2	-0.61	0.275417	0.888
MBNL1	-0.61	0.275417	0.888
MGMT	-0.61	0.275417	0.888
MPV17L	-0.61	0.275417	0.888
MYBPC2	-0.61	0.275417	0.888
NACAD	-0.61	0.275418	0.888
NAT1	-0.61	0.275417	0.888
NIPSNAP1	-0.61	0.275417	0.888
NR6A1	-0.61	0.275417	0.888
NUAK2	-0.61	0.275417	0.888
ODF2L	-0.61	0.300138	0.9
OR2A4	-0.61	0.275418	0.888
OR2G3	-0.61	0.275417	0.888
OR5R1	-0.61	0.275417	0.888
OR5T2	-0.61	0.275417	0.888
ORM2	-0.61	0.275417	0.888
P2RY10	-0.61	0.275417	0.888

PAPOLA	-0.61	0.275418	0.888
PATL2	-0.61	0.300139	0.9
PDGFA	-0.61	0.275417	0.888
PLXNA2	-0.61	0.275417	0.888
PRAMEF20	-0.61	0.275417	0.888
PRPF39	-0.61	0.300139	0.9
RIBC2	-0.61	0.275418	0.888
RTN4R	-0.61	0.300139	0.9
SET	-0.61	0.275417	0.888
SETD1A	-0.61	0.300139	0.9
SLC16A5	-0.61	0.275417	0.888
SMN1	-0.61	0.275417	0.888
SMN2	-0.61	0.275417	0.888
SNCA	-0.61	0.275418	0.888
SPERT	-0.61	0.275418	0.888
STAC3	-0.61	0.275418	0.888
STRN4	-0.61	0.275417	0.888
SYNPO2	-0.61	0.275417	0.888
THUMPD1	-0.61	0.275417	0.888
TMEM199	-0.61	0.275417	0.888
TNFRSF4	-0.61	0.275417	0.888
VAX2	-0.61	0.275417	0.888
VWC2L	-0.61	0.275417	0.888
ZBP1	-0.61	0.300138	0.9
ABCA12	-0.6	0.283207	0.891
ACOT8	-0.6	0.283207	0.891
ARIH2	-0.6	0.283207	0.891
ARSF	-0.6	0.283207	0.891
B3GALT5	-0.6	0.283207	0.891
BAIAP2	-0.6	0.283208	0.891
BNIP3L	-0.6	0.283208	0.891
BTC	-0.6	0.30792	0.9
C2orf69	-0.6	0.283207	0.891
CD244	-0.6	0.283208	0.891
CEP85L	-0.6	0.30792	0.9
CERS6	-0.6	0.283208	0.891
CHDH	-0.6	0.283207	0.891
COLQ	-0.6	0.283207	0.891
CXorf40A	-0.6	0.283207	0.891
DGKG	-0.6	0.283207	0.891
DHRX	-0.6	0.283208	0.891
DOC2A	-0.6	0.283208	0.891
ECI1	-0.6	0.283207	0.891
EMID1	-0.6	0.283207	0.891
EVC2	-0.6	0.283208	0.891
EXD1	-0.6	0.283208	0.891
FAM120AOS	-0.6	0.283207	0.891

FAM209B	-0.6	0.283208	0.891
FGF9	-0.6	0.283208	0.891
FRK	-0.6	0.283207	0.891
GLT8D1	-0.6	0.283208	0.891
GMPPA	-0.6	0.30792	0.9
GUSB	-0.6	0.283208	0.891
IGJ	-0.6	0.283208	0.891
IGSF9B	-0.6	0.283207	0.891
ITGAE	-0.6	0.283208	0.891
KCNK15	-0.6	0.30792	0.9
KCNMB2	-0.6	0.283208	0.891
KPNA4	-0.6	0.283207	0.891
KRTAP10-2	-0.6	0.30792	0.9
LAMP2	-0.6	0.283207	0.891
LGI2	-0.6	0.283207	0.891
LY6D	-0.6	0.283207	0.891
MFSD7	-0.6	0.283207	0.891
MRPL51	-0.6	0.30792	0.9
MSANTD2	-0.6	0.283207	0.891
MTNR1B	-0.6	0.30792	0.9
MUCL1	-0.6	0.283208	0.891
MZB1	-0.6	0.30792	0.9
NEMF	-0.6	0.30792	0.9
NFASC	-0.6	0.283207	0.891
NPHP4	-0.6	0.307919	0.9
OR2T35	-0.6	0.283208	0.891
ORAI2	-0.6	0.283207	0.891
ORMDL2	-0.6	0.283208	0.891
PAH	-0.6	0.283207	0.891
PCDHB6	-0.6	0.307919	0.9
PCF11	-0.6	0.30792	0.9
PENK	-0.6	0.30792	0.9
PHLDA1	-0.6	0.283207	0.891
PNKD	-0.6	0.283207	0.891
RBM25	-0.6	0.307919	0.9
RBM28	-0.6	0.283207	0.891
RGN	-0.6	0.283207	0.891
RPL37	-0.6	0.401317	0.923
S100Z	-0.6	0.283207	0.891
SHC1	-0.6	0.283208	0.891
SLC1A2	-0.6	0.283207	0.891
SLC26A9	-0.6	0.283208	0.891
SLC35E4	-0.6	0.283207	0.891
SOX8	-0.6	0.283208	0.891
SPRY2	-0.6	0.30792	0.9
TMEM9B	-0.6	0.283207	0.891
TNFRSF10A	-0.6	0.283207	0.891

TNMD	-0.6	0.283207	0.891
TPM2	-0.6	0.30792	0.9
TRMT11	-0.6	0.283208	0.891
TSNARE1	-0.6	0.283208	0.891
XCR1	-0.6	0.283207	0.891
ZNF124	-0.6	0.283207	0.891
ZNF502	-0.6	0.283208	0.891
ZNF679	-0.6	0.283207	0.891
ZNF816	-0.6	0.283208	0.891
ABCD1	-0.59	0.291109	0.896
ANKRD1	-0.59	0.291109	0.896
ARHGAP17	-0.59	0.291109	0.896
ASB6	-0.59	0.291109	0.896
BAZ1A	-0.59	0.291109	0.896
C17orf74	-0.59	0.291109	0.896
C5orf34	-0.59	0.291109	0.896
C5orf54	-0.59	0.315792	0.903
CAV3	-0.59	0.291109	0.896
CCR9	-0.59	0.315792	0.903
CDR2L	-0.59	0.291109	0.896
CYTH4	-0.59	0.315793	0.903
DBP	-0.59	0.291109	0.896
DPH6	-0.59	0.291109	0.896
EML6	-0.59	0.291109	0.896
ESRRG	-0.59	0.315792	0.903
FAM131B	-0.59	0.291109	0.896
FBP1	-0.59	0.291109	0.896
FGF14	-0.59	0.291109	0.896
FKRP	-0.59	0.291109	0.896
FOXP1	-0.59	0.291109	0.896
FOXR2	-0.59	0.291109	0.896
FPR2	-0.59	0.315792	0.903
FUT7	-0.59	0.291109	0.896
GALR1	-0.59	0.343347	0.911
GJB6	-0.59	0.291109	0.896
HAUS2	-0.59	0.315792	0.903
HIBCH	-0.59	0.291109	0.896
HIST3H3	-0.59	0.291109	0.896
HOXA3	-0.59	0.291109	0.896
IL22	-0.59	0.291109	0.896
JPH3	-0.59	0.291109	0.896
KCNJ6	-0.59	0.291109	0.896
KIAA0586	-0.59	0.291109	0.896
KIAA1644	-0.59	0.291109	0.896
KIAA2026	-0.59	0.291109	0.896
KLHDC7A	-0.59	0.315792	0.903
KLHL12	-0.59	0.291109	0.896

L3MBTL1	-0.59	0.315793	0.903
LOC1053757	-0.59	0.315792	0.903
LOXHD1	-0.59	0.291109	0.896
MS4A7	-0.59	0.291109	0.896
MTNR1A	-0.59	0.291109	0.896
NDUFS6	-0.59	0.291109	0.896
OR4D11	-0.59	0.291109	0.896
PDE3B	-0.59	0.291109	0.896
PDZD2	-0.59	0.315792	0.903
PER1	-0.59	0.343347	0.911
PI16	-0.59	0.291109	0.896
PRDM12	-0.59	0.291109	0.896
PRMT8	-0.59	0.291109	0.896
PSMD10	-0.59	0.291109	0.896
PTPRD	-0.59	0.291109	0.896
PXMP4	-0.59	0.291109	0.896
PYGL	-0.59	0.291109	0.896
REP15	-0.59	0.291109	0.896
RPL4	-0.59	0.291109	0.896
RRP1	-0.59	0.291109	0.896
SCAND1	-0.59	0.291109	0.896
SEPT6	-0.59	0.291109	0.896
SLC26A5	-0.59	0.291109	0.896
STAP2	-0.59	0.291109	0.896
STX2	-0.59	0.315792	0.903
TSR3	-0.59	0.291109	0.896
UBE2O	-0.59	0.291109	0.896
UBXN6	-0.59	0.291109	0.896
UFSP2	-0.59	0.291109	0.896
VAT1L	-0.59	0.315793	0.903
YEATS2	-0.59	0.315792	0.903
ZNF408	-0.59	0.291109	0.896
ZNF497	-0.59	0.291109	0.896
AK8	-0.58	0.323807	0.906
ANXA10	-0.58	0.299105	0.9
AP1S2	-0.58	0.299105	0.9
ARL11	-0.58	0.299106	0.9
BATF3	-0.58	0.299105	0.9
BCL7B	-0.58	0.299105	0.9
C14orf2	-0.58	0.299105	0.9
C16orf54	-0.58	0.299105	0.9
C3orf36	-0.58	0.38201	0.923
CD300E	-0.58	0.323807	0.906
CDC23	-0.58	0.323807	0.906
CERK	-0.58	0.323807	0.906
CHRNA10	-0.58	0.299105	0.9
CMTM5	-0.58	0.299105	0.9

CST2	-0.58	0.299105	0.9
DLG4	-0.58	0.299105	0.9
ENY2	-0.58	0.323807	0.906
EPHA4	-0.58	0.299105	0.9
FBF1	-0.58	0.299105	0.9
FRMPD4	-0.58	0.299106	0.9
GPN2	-0.58	0.323807	0.906
GSTM4	-0.58	0.323807	0.906
IMPA1	-0.58	0.299106	0.9
ITGA1	-0.58	0.299105	0.9
KIF27	-0.58	0.299105	0.9
KIF4A	-0.58	0.299106	0.9
LETM2	-0.58	0.299106	0.9
LRRC28	-0.58	0.299105	0.9
LRRC61	-0.58	0.299106	0.9
LYST	-0.58	0.299105	0.9
MCM7	-0.58	0.351374	0.913
MCM9	-0.58	0.299106	0.9
MGAT4B	-0.58	0.299105	0.9
MMP2	-0.58	0.299105	0.9
MSH2	-0.58	0.299105	0.9
NAV1	-0.58	0.299105	0.9
NETO2	-0.58	0.299106	0.9
NPEPPS	-0.58	0.299105	0.9
NR4A3	-0.58	0.299105	0.9
NSMCE4A	-0.58	0.323807	0.906
NSRP1	-0.58	0.299105	0.9
NTM	-0.58	0.299105	0.9
OR51A4	-0.58	0.299105	0.9
OR5AC2	-0.58	0.299105	0.9
OXCT1	-0.58	0.299105	0.9
RAD51D	-0.58	0.299106	0.9
RBM24	-0.58	0.323807	0.906
RBMXL1	-0.58	0.299106	0.9
RICTOR	-0.58	0.299106	0.9
RLTPR	-0.58	0.299105	0.9
RNF135	-0.58	0.299105	0.9
SGCZ	-0.58	0.299105	0.9
SHROOM4	-0.58	0.323807	0.906
SLC46A1	-0.58	0.323807	0.906
SSU72	-0.58	0.299106	0.9
STK32A	-0.58	0.299105	0.9
TPD52L1	-0.58	0.299105	0.9
TSTD2	-0.58	0.323807	0.906
TTC7A	-0.58	0.323807	0.906
UCKL1	-0.58	0.299106	0.9
USP3	-0.58	0.299106	0.9

VDAC3	-0.58	0.299105	0.9
ZIM2	-0.58	0.323807	0.906
ZNF141	-0.58	0.299105	0.9
ZNF473	-0.58	0.299105	0.9
ZNF688	-0.58	0.323807	0.906
ZSCAN16	-0.58	0.299105	0.9
AASDH	-0.57	0.307297	0.9
ACLY	-0.57	0.307297	0.9
ADAMTSL2	-0.57	0.307298	0.9
AGK	-0.57	0.307297	0.9
APEH	-0.57	0.331925	0.908
APOC4	-0.57	0.307297	0.9
B3GNT7	-0.57	0.331924	0.908
BEGAIN	-0.57	0.307297	0.9
C20orf24	-0.57	0.307297	0.9
CASP1	-0.57	0.307297	0.9
CCDC101	-0.57	0.307297	0.9
CDH24	-0.57	0.331924	0.908
CENPC	-0.57	0.307297	0.9
CMTM6	-0.57	0.307298	0.9
CORO1C	-0.57	0.307297	0.9
CPQ	-0.57	0.307297	0.9
CTRL	-0.57	0.307297	0.9
DPM1	-0.57	0.307297	0.9
DPYSL4	-0.57	0.307297	0.9
DUSP22	-0.57	0.331925	0.908
ECE1	-0.57	0.307297	0.9
EFCAB6	-0.57	0.307297	0.9
EIF4G2	-0.57	0.307297	0.9
FAM71B	-0.57	0.307297	0.9
GBP1	-0.57	0.307297	0.9
GDPGP1	-0.57	0.307297	0.9
GJC1	-0.57	0.307297	0.9
GPLD1	-0.57	0.307297	0.9
HGS	-0.57	0.307297	0.9
HMGB1	-0.57	0.307298	0.9
IFNA4	-0.57	0.307297	0.9
IPO11	-0.57	0.307297	0.9
IQGAP3	-0.57	0.307297	0.9
KCNMB3	-0.57	0.307297	0.9
KCNV1	-0.57	0.307297	0.9
LHPP	-0.57	0.307297	0.9
LILRA2	-0.57	0.307297	0.9
LONP2	-0.57	0.307297	0.9
MAGI1	-0.57	0.307297	0.9
MKNK1	-0.57	0.35947	0.915
MLLT11	-0.57	0.307297	0.9

MPDU1	-0.57	0.307298	0.9
NCAPG2	-0.57	0.331924	0.908
NCR1	-0.57	0.307298	0.9
NDUFB6	-0.57	0.307297	0.9
NFKB2	-0.57	0.331924	0.908
NOL7	-0.57	0.331925	0.908
NOTCH3	-0.57	0.331924	0.908
NUDT16	-0.57	0.307297	0.9
NXNL2	-0.57	0.307298	0.9
ODF2	-0.57	0.307297	0.9
OR10P1	-0.57	0.307297	0.9
OR8D1	-0.57	0.307297	0.9
PAPSS2	-0.57	0.307298	0.9
PCGF3	-0.57	0.307297	0.9
PLAC1L	-0.57	0.307298	0.9
POLQ	-0.57	0.307298	0.9
PPP1R13L	-0.57	0.307297	0.9
PRADC1	-0.57	0.307298	0.9
PTPN7	-0.57	0.307298	0.9
RAD23A	-0.57	0.307297	0.9
RASA4B	-0.57	0.307297	0.9
RGAG1	-0.57	0.307297	0.9
ROPN1B	-0.57	0.307297	0.9
RPL19	-0.57	0.331924	0.908
RTDR1	-0.57	0.331924	0.908
SIRPB2	-0.57	0.307297	0.9
SKP1	-0.57	0.307297	0.9
SLC17A8	-0.57	0.307297	0.9
SLC22A5	-0.57	0.307298	0.9
SLC25A2	-0.57	0.307297	0.9
SLC28A3	-0.57	0.307297	0.9
SNRPF	-0.57	0.424524	0.931
SP100	-0.57	0.307297	0.9
SPO11	-0.57	0.307298	0.9
SPSB2	-0.57	0.307297	0.9
SYT7	-0.57	0.307297	0.9
THBS2	-0.57	0.307297	0.9
TNFAIP8L1	-0.57	0.307297	0.9
TNN	-0.57	0.35947	0.915
TUBB3	-0.57	0.35947	0.915
UBE2V2	-0.57	0.307298	0.9
UST	-0.57	0.307297	0.9
YLPM1	-0.57	0.35947	0.915
APOBEC4	-0.56	0.315668	0.903
B3GNTL1	-0.56	0.315668	0.903
BMP2K	-0.56	0.315667	0.903
BTG1	-0.56	0.315667	0.903

C11orf1	-0.56	0.315668	0.903
C19orf24	-0.56	0.315667	0.903
C20orf194	-0.56	0.315667	0.903
CAPNS1	-0.56	0.315668	0.903
CHPF2	-0.56	0.367728	0.919
CRYGA	-0.56	0.315668	0.903
CYP3A7	-0.56	0.315668	0.903
DCLK3	-0.56	0.315668	0.903
DEFB105A	-0.56	0.315668	0.903
DEFB105B	-0.56	0.315668	0.903
EFCAB1	-0.56	0.315668	0.903
EFR3A	-0.56	0.34017	0.908
EMC6	-0.56	0.315668	0.903
GLTSCR2	-0.56	0.367728	0.919
GRIK5	-0.56	0.315668	0.903
GSN	-0.56	0.34017	0.908
HES6	-0.56	0.315668	0.903
HNRNPR	-0.56	0.315668	0.903
ITM2B	-0.56	0.315668	0.903
JAKMIP3	-0.56	0.34017	0.908
KCNC4	-0.56	0.34017	0.908
KCNH8	-0.56	0.34017	0.908
KIAA0319L	-0.56	0.34017	0.908
KIF16B	-0.56	0.315668	0.903
LEO1	-0.56	0.315668	0.903
LMTK3	-0.56	0.367728	0.919
LOC389199	-0.56	0.315668	0.903
LPPR4	-0.56	0.315668	0.903
LTN1	-0.56	0.315667	0.903
LYNX1	-0.56	0.315668	0.903
LZTS2	-0.56	0.315667	0.903
MANBA	-0.56	0.315668	0.903
MDH2	-0.56	0.315668	0.903
METTL3	-0.56	0.315668	0.903
MFSD11	-0.56	0.315668	0.903
MORF4L2	-0.56	0.315668	0.903
NINL	-0.56	0.315668	0.903
OR1J4	-0.56	0.34017	0.908
OR52B6	-0.56	0.315668	0.903
PDP2	-0.56	0.315668	0.903
PFDN1	-0.56	0.315668	0.903
PIGA	-0.56	0.315668	0.903
PPFIA4	-0.56	0.34017	0.908
PRAM1	-0.56	0.315667	0.903
PRR36	-0.56	0.315668	0.903
R3HDM2	-0.56	0.315668	0.903
RBM17	-0.56	0.315667	0.903

ROGDI	-0.56	0.34017	0.908
SHISA8	-0.56	0.315668	0.903
SIRT6	-0.56	0.367728	0.919
SPATA31A1	-0.56	0.315668	0.903
SPEF1	-0.56	0.315667	0.903
ST3GAL2	-0.56	0.315668	0.903
TAS2R13	-0.56	0.34017	0.908
TNFAIP3	-0.56	0.315668	0.903
TLL13	-0.56	0.315667	0.903
UBLCP1	-0.56	0.315668	0.903
UBR1	-0.56	0.315668	0.903
ZNF438	-0.56	0.315668	0.903
ZNF735	-0.56	0.315667	0.903
ZNF774	-0.56	0.315668	0.903
ZSCAN5B	-0.56	0.315667	0.903
ACBD3	-0.55	0.348646	0.911
ANXA2	-0.55	0.324171	0.906
ATP13A3	-0.55	0.324172	0.906
BPNT1	-0.55	0.324171	0.906
C6orf223	-0.55	0.324172	0.906
CAMTA2	-0.55	0.348646	0.911
CCDC37	-0.55	0.324171	0.906
CHPF	-0.55	0.348646	0.911
CMSS1	-0.55	0.324172	0.906
COL4A5	-0.55	0.324171	0.906
CRYBA2	-0.55	0.324171	0.906
DACT3	-0.55	0.324171	0.906
DBX2	-0.55	0.324171	0.906
DDO	-0.55	0.324171	0.906
DOK7	-0.55	0.324171	0.906
ELFN1	-0.55	0.324172	0.906
ERBB4	-0.55	0.324171	0.906
FANCA	-0.55	0.324171	0.906
FNIP1	-0.55	0.324172	0.906
FOXJ3	-0.55	0.324171	0.906
GABARAP	-0.55	0.324171	0.906
GBP4	-0.55	0.324171	0.906
GGN	-0.55	0.324172	0.906
HBP1	-0.55	0.324171	0.906
HSPB11	-0.55	0.348646	0.911
KIAA1377	-0.55	0.324171	0.906
KLHDC8A	-0.55	0.376107	0.923
LOC391322	-0.55	0.5239	0.949
METTL8	-0.55	0.376107	0.923
MILR1	-0.55	0.324171	0.906
MYCL	-0.55	0.324171	0.906
MYH4	-0.55	0.376107	0.923

NFYC	-0.55	0.324172	0.906
NME7	-0.55	0.324172	0.906
NR5A2	-0.55	0.324171	0.906
PDHA1	-0.55	0.324172	0.906
PELI3	-0.55	0.324171	0.906
PHLPP1	-0.55	0.324171	0.906
PISD	-0.55	0.324171	0.906
PITPNM3	-0.55	0.324171	0.906
PLCXD2	-0.55	0.324172	0.906
PPP2R5B	-0.55	0.348646	0.911
PRSS38	-0.55	0.324171	0.906
PSMB11	-0.55	0.324172	0.906
RAMP1	-0.55	0.324171	0.906
RANBP10	-0.55	0.324171	0.906
RMND5B	-0.55	0.376107	0.923
ROR2	-0.55	0.348645	0.911
RP1L1	-0.55	0.324172	0.906
SETD3	-0.55	0.324172	0.906
SGCE	-0.55	0.324171	0.906
SH2D6	-0.55	0.324171	0.906
SLC9A3	-0.55	0.324171	0.906
SMIM18	-0.55	0.324171	0.906
SRMS	-0.55	0.324171	0.906
SRP9	-0.55	0.348646	0.911
TDRD3	-0.55	0.324172	0.906
TEK	-0.55	0.324172	0.906
TMEM184A	-0.55	0.324171	0.906
TMEM211	-0.55	0.324172	0.906
TMEM237	-0.55	0.324171	0.906
VPS36	-0.55	0.324171	0.906
ZNF521	-0.55	0.324171	0.906
ZNF696	-0.55	0.324172	0.906
ZYG11B	-0.55	0.324171	0.906
ABCB6	-0.54	0.332839	0.908
ABCD2	-0.54	0.332839	0.908
ABTB2	-0.54	0.332838	0.908
ADCY8	-0.54	0.357185	0.915
AIM1	-0.54	0.332838	0.908
AMY1B	-0.54	0.332839	0.908
AMY1C	-0.54	0.332839	0.908
ATHL1	-0.54	0.332838	0.908
BRWD1	-0.54	0.332838	0.908
C3orf35	-0.54	0.332839	0.908
C7orf63	-0.54	0.332839	0.908
C9orf173	-0.54	0.332838	0.908
CACHD1	-0.54	0.332839	0.908
CAV2	-0.54	0.384683	0.923

CDKN2AIP	-0.54	0.332838	0.908
CLDN18	-0.54	0.332839	0.908
CPSF7	-0.54	0.332839	0.908
CTNNB1	-0.54	0.332838	0.908
DDX19B	-0.54	0.332839	0.908
DEFB123	-0.54	0.332839	0.908
DSG2	-0.54	0.332839	0.908
EFCAB7	-0.54	0.332838	0.908
ELF5	-0.54	0.332839	0.908
ELMO2	-0.54	0.332838	0.908
EPB41L2	-0.54	0.332839	0.908
EPHA7	-0.54	0.357185	0.915
EPHB4	-0.54	0.357186	0.915
FAM72B	-0.54	0.332839	0.908
GCC2	-0.54	0.332839	0.908
GLRA2	-0.54	0.332838	0.908
GTF2A1L	-0.54	0.332839	0.908
HIST1H3F	-0.54	0.332839	0.908
HOXD10	-0.54	0.357185	0.915
IFT172	-0.54	0.332839	0.908
IGSF1	-0.54	0.332839	0.908
IL6R	-0.54	0.332838	0.908
LMNA	-0.54	0.357185	0.915
MBNL3	-0.54	0.332839	0.908
MED21	-0.54	0.332838	0.908
MKL1	-0.54	0.357185	0.915
MPHOSPH6	-0.54	0.332839	0.908
MRPL11	-0.54	0.332839	0.908
MSH4	-0.54	0.332838	0.908
NANS	-0.54	0.332839	0.908
NCS1	-0.54	0.332839	0.908
NME5	-0.54	0.332839	0.908
NOTUM	-0.54	0.332838	0.908
NUBP1	-0.54	0.332839	0.908
OTUB2	-0.54	0.357185	0.915
PEG10	-0.54	0.332839	0.908
PMF1-BGLA	-0.54	0.332839	0.908
PNPLA6	-0.54	0.357185	0.915
POTEC	-0.54	0.332839	0.908
PPIL4	-0.54	0.357186	0.915
PTTG2	-0.54	0.332839	0.908
RBM11	-0.54	0.332839	0.908
RFC4	-0.54	0.332839	0.908
RGS3	-0.54	0.332839	0.908
RGS7BP	-0.54	0.332839	0.908
RNF31	-0.54	0.332838	0.908
RSPH6A	-0.54	0.332839	0.908

RTCA	-0.54	0.332839	0.908
SEMA3B	-0.54	0.332839	0.908
SLC22A20	-0.54	0.357185	0.915
SNRPB	-0.54	0.357185	0.915
SPANXN5	-0.54	0.332838	0.908
SPTBN4	-0.54	0.332839	0.908
SRRM1	-0.54	0.332839	0.908
ST6GALNAC	-0.54	0.332839	0.908
TCHP	-0.54	0.384683	0.923
TMEM138	-0.54	0.332839	0.908
TMEM17	-0.54	0.332839	0.908
TPI1	-0.54	0.332839	0.908
TTC7B	-0.54	0.332839	0.908
VASP	-0.54	0.332839	0.908
WASH1	-0.54	0.384683	0.923
WDR91	-0.54	0.332838	0.908
WFDC6	-0.54	0.332839	0.908
WIPF3	-0.54	0.384683	0.923
XRCC2	-0.54	0.332838	0.908
YIPF6	-0.54	0.332839	0.908
ZAR1L	-0.54	0.332839	0.908
ZNF333	-0.54	0.332838	0.908
ACTL6B	-0.53	0.341654	0.908
ALAS1	-0.53	0.365907	0.919
ALG10B	-0.53	0.341654	0.908
AMY1A	-0.53	0.341654	0.908
APOA2	-0.53	0.341655	0.908
APOBEC3G	-0.53	0.341654	0.908
ARMCX1	-0.53	0.341654	0.908
ARSG	-0.53	0.341654	0.908
ATP2B2	-0.53	0.341654	0.908
C10orf10	-0.53	0.341654	0.908
CAPG	-0.53	0.341654	0.908
CAPN9	-0.53	0.341655	0.908
CASC4	-0.53	0.365906	0.919
CASP9	-0.53	0.341655	0.908
CASQ2	-0.53	0.341655	0.908
CCNA2	-0.53	0.393314	0.923
CD99	-0.53	0.341655	0.908
CRYM	-0.53	0.341654	0.908
CTC1	-0.53	0.365906	0.919
CXXC4	-0.53	0.341654	0.908
DDB1	-0.53	0.393315	0.923
DDX24	-0.53	0.341654	0.908
DDX59	-0.53	0.365906	0.919
DISC1	-0.53	0.341654	0.908
DUT	-0.53	0.341655	0.908

EPHX1	-0.53	0.341655	0.908
F13B	-0.53	0.365906	0.919
FAM104A	-0.53	0.341654	0.908
FASTKD3	-0.53	0.341654	0.908
FGFR2	-0.53	0.341655	0.908
FOXE1	-0.53	0.341654	0.908
GREM1	-0.53	0.341654	0.908
GZMB	-0.53	0.341654	0.908
HERPUD2	-0.53	0.341654	0.908
HIST1H2BA	-0.53	0.341654	0.908
HIST3H2BB	-0.53	0.341654	0.908
HOXB6	-0.53	0.341654	0.908
IFIT3	-0.53	0.341654	0.908
INHBE	-0.53	0.341654	0.908
IRS1	-0.53	0.365906	0.919
KRT13	-0.53	0.341654	0.908
LAMP3	-0.53	0.341654	0.908
LDB2	-0.53	0.341655	0.908
LILRA6	-0.53	0.341654	0.908
LIMK2	-0.53	0.365907	0.919
LRRC38	-0.53	0.341654	0.908
MAP1S	-0.53	0.341654	0.908
MAPRE1	-0.53	0.341654	0.908
MARCH1	-0.53	0.341654	0.908
MUC12	-0.53	0.365906	0.919
MYO16	-0.53	0.341654	0.908
NAPB	-0.53	0.341654	0.908
NFATC3	-0.53	0.365906	0.919
NKAIN4	-0.53	0.341654	0.908
PANK3	-0.53	0.341655	0.908
PCDHB13	-0.53	0.341654	0.908
PDK2	-0.53	0.341654	0.908
RAB30	-0.53	0.341654	0.908
RCBTB2	-0.53	0.365906	0.919
RFESD	-0.53	0.341654	0.908
RNF150	-0.53	0.365907	0.919
ROBO1	-0.53	0.341654	0.908
RRP15	-0.53	0.341654	0.908
SASH3	-0.53	0.341654	0.908
SELK	-0.53	0.341654	0.908
SFRP5	-0.53	0.341654	0.908
SGSM3	-0.53	0.341654	0.908
SHISA9	-0.53	0.341654	0.908
SLC10A2	-0.53	0.341654	0.908
SLC18A2	-0.53	0.341655	0.908
SLC22A7	-0.53	0.341654	0.908
SNTG2	-0.53	0.341654	0.908

SOWAHA	-0.53	0.341655	0.908
SP8	-0.53	0.341654	0.908
SPSB4	-0.53	0.365906	0.919
SRR	-0.53	0.365906	0.919
TAC3	-0.53	0.365906	0.919
TM6SF1	-0.53	0.341654	0.908
TMEM190	-0.53	0.341654	0.908
TRAPPC2	-0.53	0.341655	0.908
TREML2	-0.53	0.341654	0.908
TSSK3	-0.53	0.341654	0.908
TUSC1	-0.53	0.341654	0.908
UFC1	-0.53	0.341654	0.908
ULBP3	-0.53	0.341654	0.908
UMPS	-0.53	0.456828	0.939
UPP2	-0.53	0.341655	0.908
VIPR1	-0.53	0.341655	0.908
VSTM2A	-0.53	0.341655	0.908
WDFY2	-0.53	0.341655	0.908
ZEB1	-0.53	0.341654	0.908
ZNF566	-0.53	0.341654	0.908
ZNF610	-0.53	0.341654	0.908
ZSCAN31	-0.53	0.341654	0.908
ABL1	-0.52	0.350572	0.911
AP5B1	-0.52	0.350572	0.911
ARHGEF11	-0.52	0.374796	0.923
B3GALT2	-0.52	0.350572	0.911
C10orf2	-0.52	0.374797	0.923
C6orf132	-0.52	0.374797	0.923
C9orf16	-0.52	0.374797	0.923
CACFD1	-0.52	0.350572	0.911
CACNA1G	-0.52	0.374796	0.923
CAMK2A	-0.52	0.350573	0.911
CARD9	-0.52	0.350573	0.911
CCDC11	-0.52	0.350572	0.911
CCNYL1	-0.52	0.374797	0.923
CNPPD1	-0.52	0.350572	0.911
COL4A3BP	-0.52	0.350572	0.911
CORT	-0.52	0.350572	0.911
CPSF2	-0.52	0.401998	0.923
CRYZL1	-0.52	0.350572	0.911
DEDD2	-0.52	0.350572	0.911
DGAT2L6	-0.52	0.350572	0.911
DOLK	-0.52	0.374797	0.923
ENO2	-0.52	0.350572	0.911
FAM162A	-0.52	0.374797	0.923
FAM180B	-0.52	0.374796	0.923
FAM193B	-0.52	0.350572	0.911

FJX1	-0.52	0.350573	0.911
GLTPD1	-0.52	0.350572	0.911
GUK1	-0.52	0.401998	0.923
HDAC11	-0.52	0.374797	0.923
HSD17B3	-0.52	0.350572	0.911
KCNAB2	-0.52	0.350572	0.911
KLK6	-0.52	0.350572	0.911
LENG8	-0.52	0.374797	0.923
LOC1001304	-0.52	0.350573	0.911
LRIG3	-0.52	0.350573	0.911
LSM11	-0.52	0.350572	0.911
MAN1A2	-0.52	0.374797	0.923
MITD1	-0.52	0.350573	0.911
MTAP	-0.52	0.350573	0.911
MXRA8	-0.52	0.350572	0.911
MYRFL	-0.52	0.350572	0.911
NOP9	-0.52	0.374797	0.923
NUP85	-0.52	0.43198	0.931
OR2A25	-0.52	0.350572	0.911
OR2J2	-0.52	0.350572	0.911
OR2M2	-0.52	0.350573	0.911
OR52D1	-0.52	0.374796	0.923
PALLD	-0.52	0.350572	0.911
PAWR	-0.52	0.350572	0.911
PAX8	-0.52	0.350572	0.911
PAX9	-0.52	0.350572	0.911
PIANP	-0.52	0.401998	0.923
PKD2L1	-0.52	0.350572	0.911
PLCG2	-0.52	0.350572	0.911
PLXNB2	-0.52	0.350572	0.911
PODXL	-0.52	0.350572	0.911
RAB33B	-0.52	0.374797	0.923
RABL3	-0.52	0.350572	0.911
RAD52	-0.52	0.350572	0.911
RAI1	-0.52	0.401998	0.923
RGS17	-0.52	0.350572	0.911
SBDS	-0.52	0.350573	0.911
SERPINA9	-0.52	0.350573	0.911
SH3YL1	-0.52	0.350573	0.911
SHISA2	-0.52	0.350572	0.911
SHISA6	-0.52	0.350572	0.911
SIGLEC11	-0.52	0.350572	0.911
SLC41A1	-0.52	0.374797	0.923
SNTN	-0.52	0.350572	0.911
SUMO3	-0.52	0.350572	0.911
SYCP2	-0.52	0.350572	0.911
SYNPO	-0.52	0.350573	0.911

TGIF2LX	-0.52	0.350572	0.911
TP53RK	-0.52	0.401998	0.923
TULP1	-0.52	0.350572	0.911
UBE2U	-0.52	0.350572	0.911
UNC13C	-0.52	0.350573	0.911
UNC5B	-0.52	0.350572	0.911
UNC93B1	-0.52	0.350572	0.911
USE1	-0.52	0.350572	0.911
VSIG4	-0.52	0.350572	0.911
VWA8	-0.52	0.350572	0.911
WFDC1	-0.52	0.350572	0.911
ZC3H12C	-0.52	0.350572	0.911
ZFHX3	-0.52	0.350572	0.911
ZFPM1	-0.52	0.350573	0.911
ZNF404	-0.52	0.350572	0.911
ZNF467	-0.52	0.350573	0.911
ZNF560	-0.52	0.350572	0.911
ZNF664	-0.52	0.350573	0.911
ZNF721	-0.52	0.350572	0.911
ZNF76	-0.52	0.350572	0.911
ZNF785	-0.52	0.374797	0.923
ABCA2	-0.51	0.359634	0.915
ARMCX5	-0.51	0.359634	0.915
ATIC	-0.51	0.359634	0.915
B3GNT3	-0.51	0.359634	0.915
BCL2	-0.51	0.359633	0.915
C16orf72	-0.51	0.38384	0.923
C9	-0.51	0.359633	0.915
CDH5	-0.51	0.359634	0.915
CDO1	-0.51	0.359634	0.915
CETN1	-0.51	0.38384	0.923
CREBZF	-0.51	0.38384	0.923
CSF2RB	-0.51	0.38384	0.923
DAXX	-0.51	0.359634	0.915
EIF2S1	-0.51	0.553638	0.957
ETNPPL	-0.51	0.359634	0.915
ETS2	-0.51	0.359634	0.915
FAM219A	-0.51	0.359633	0.915
FANCC	-0.51	0.359633	0.915
FCGR1B	-0.51	0.359634	0.915
FCRL1	-0.51	0.359634	0.915
FEV	-0.51	0.359634	0.915
FSBP	-0.51	0.410877	0.93
GOLGA7B	-0.51	0.359634	0.915
GPR176	-0.51	0.359634	0.915
GPX4	-0.51	0.359634	0.915
HOMER1	-0.51	0.359634	0.915

IDH2	-0.51	0.359634	0.915
IQSEC1	-0.51	0.359634	0.915
JSRP1	-0.51	0.359634	0.915
KCNA6	-0.51	0.38384	0.923
KRT83	-0.51	0.359634	0.915
KYNU	-0.51	0.359634	0.915
LACRT	-0.51	0.359634	0.915
LILRB1	-0.51	0.38384	0.923
LRPPRC	-0.51	0.38384	0.923
MIER3	-0.51	0.359634	0.915
MMRN1	-0.51	0.359634	0.915
MRPL46	-0.51	0.38384	0.923
MYBPC3	-0.51	0.38384	0.923
MYBPH	-0.51	0.359634	0.915
NHLH2	-0.51	0.38384	0.923
OR51S1	-0.51	0.359634	0.915
OSM	-0.51	0.359634	0.915
PCDHGA6	-0.51	0.359634	0.915
PDZK1	-0.51	0.359633	0.915
PGK1	-0.51	0.359633	0.915
PIRT	-0.51	0.359634	0.915
POLR2K	-0.51	0.473541	0.948
PRDM2	-0.51	0.38384	0.923
PTPRS	-0.51	0.383841	0.923
PYDC2	-0.51	0.359634	0.915
RIT1	-0.51	0.359634	0.915
RNF225	-0.51	0.359634	0.915
SMYD1	-0.51	0.359633	0.915
SRD5A3	-0.51	0.359634	0.915
SUGP1	-0.51	0.38384	0.923
THAP4	-0.51	0.359634	0.915
TIPARP	-0.51	0.359634	0.915
TMOD1	-0.51	0.359634	0.915
TMOD3	-0.51	0.359634	0.915
TOLLIP	-0.51	0.359634	0.915
TRERF1	-0.51	0.359634	0.915
TRIM60	-0.51	0.359633	0.915
TUBAL3	-0.51	0.359633	0.915
TXN	-0.51	0.359634	0.915
UBR2	-0.51	0.359634	0.915
XPC	-0.51	0.359634	0.915
XRCC3	-0.51	0.359634	0.915
ZGPAT	-0.51	0.383841	0.923
ZNF175	-0.51	0.359634	0.915
ZNF22	-0.51	0.359634	0.915
ZNF461	-0.51	0.359634	0.915
ZNF530	-0.51	0.359634	0.915

ZNF703	-0.51	0.359634	0.915
ZNF880	-0.51	0.359634	0.915
ABCC8	-0.5	0.368922	0.919
ACSM4	-0.5	0.368923	0.919
ADM5	-0.5	0.392985	0.923
AFF2	-0.5	0.368922	0.919
AIRE	-0.5	0.368922	0.919
APOBEC3B	-0.5	0.368922	0.919
ARID4B	-0.5	0.392985	0.923
ARPC5L	-0.5	0.392985	0.923
ATRX	-0.5	0.368922	0.919
BACE2	-0.5	0.368922	0.919
BICD1	-0.5	0.368922	0.919
BTBD9	-0.5	0.392986	0.923
C8orf48	-0.5	0.368922	0.919
C9orf24	-0.5	0.368923	0.919
CAPN15	-0.5	0.368922	0.919
CHGA	-0.5	0.392985	0.923
CLMN	-0.5	0.368923	0.919
CMTM2	-0.5	0.368922	0.919
CYP2D6	-0.5	0.368922	0.919
DNAJC14	-0.5	0.392986	0.923
DYNC1LI1	-0.5	0.368922	0.919
ENDOV	-0.5	0.368922	0.919
ERVV-1	-0.5	0.392986	0.923
EYS	-0.5	0.368923	0.919
FAM200B	-0.5	0.368922	0.919
FHDC1	-0.5	0.368922	0.919
GALC	-0.5	0.392985	0.923
GALNT15	-0.5	0.368922	0.919
GDF1	-0.5	0.392985	0.923
GPR162	-0.5	0.368922	0.919
HDLBP	-0.5	0.368923	0.919
JRKL	-0.5	0.368923	0.919
JUP	-0.5	0.368923	0.919
KCNH4	-0.5	0.368922	0.919
KIAA1217	-0.5	0.368922	0.919
KIAA1257	-0.5	0.392985	0.923
KRT74	-0.5	0.368922	0.919
KRTDAP	-0.5	0.392986	0.923
LGR4	-0.5	0.368922	0.919
LOC388813	-0.5	0.419846	0.931
MCM5	-0.5	0.368922	0.919
MLLT6	-0.5	0.419847	0.931
NFKB1	-0.5	0.368922	0.919
NMRAL1	-0.5	0.392986	0.923
NRL	-0.5	0.368922	0.919

NSMF	-0.5	0.392986	0.923
NUP205	-0.5	0.368922	0.919
OR13C3	-0.5	0.368922	0.919
OR2M5	-0.5	0.392986	0.923
PINLYP	-0.5	0.368922	0.919
PPP1R1C	-0.5	0.368923	0.919
PRAMEF16	-0.5	0.368923	0.919
PRDM4	-0.5	0.368922	0.919
PRF1	-0.5	0.392986	0.923
PSG3	-0.5	0.392985	0.923
PYGB	-0.5	0.368922	0.919
RALY	-0.5	0.368922	0.919
RASSF3	-0.5	0.368922	0.919
RHBDD1	-0.5	0.368922	0.919
RHOBTB3	-0.5	0.392985	0.923
RIT2	-0.5	0.368922	0.919
RNF4	-0.5	0.368922	0.919
SATB1	-0.5	0.368923	0.919
SCN1A	-0.5	0.368922	0.919
SH3BP5	-0.5	0.368923	0.919
SIRPA	-0.5	0.368922	0.919
SLC8A3	-0.5	0.368922	0.919
SOGA2	-0.5	0.419847	0.931
SOX14	-0.5	0.368923	0.919
SPACA3	-0.5	0.368922	0.919
STOX1	-0.5	0.368922	0.919
TAAR8	-0.5	0.368922	0.919
TCEB1	-0.5	0.368922	0.919
THOC6	-0.5	0.368922	0.919
TMEM64	-0.5	0.419847	0.931
TRIM54	-0.5	0.368923	0.919
TRIML2	-0.5	0.368922	0.919
TVP23A	-0.5	0.368922	0.919
WBSCR17	-0.5	0.392986	0.923
WNT3A	-0.5	0.368922	0.919
XAGE1B	-0.5	0.368922	0.919
XAGE1E	-0.5	0.368922	0.919
AR	-0.49	0.378308	0.923
BAZ1B	-0.49	0.402273	0.923
BBS4	-0.49	0.378308	0.923
BHMG1	-0.49	0.378308	0.923
C17orf70	-0.49	0.378307	0.923
C19orf10	-0.49	0.378308	0.923
C9orf139	-0.49	0.378308	0.923
CALCA	-0.49	0.378307	0.923
CDC42EP1	-0.49	0.378307	0.923
CRISP2	-0.49	0.378308	0.923

CX3CL1	-0.49	0.378308	0.923
DAGLB	-0.49	0.378307	0.923
DBF4	-0.49	0.378308	0.923
DEAF1	-0.49	0.402273	0.923
EAPP	-0.49	0.378308	0.923
ENGASE	-0.49	0.378308	0.923
EPB41L5	-0.49	0.378308	0.923
EVC	-0.49	0.378308	0.923
FAM183A	-0.49	0.402273	0.923
FOXO1	-0.49	0.402273	0.923
FPR3	-0.49	0.378308	0.923
GIT1	-0.49	0.378308	0.923
GPR75-ASB	-0.49	0.378308	0.923
GRB2	-0.49	0.378308	0.923
GTF3C4	-0.49	0.402272	0.923
HAS1	-0.49	0.378307	0.923
HBEGF	-0.49	0.378308	0.923
HESX1	-0.49	0.378307	0.923
HIST1H3J	-0.49	0.378308	0.923
HS3ST5	-0.49	0.378308	0.923
IL10	-0.49	0.378307	0.923
IL21R	-0.49	0.378308	0.923
IL36A	-0.49	0.402272	0.923
KIAA0930	-0.49	0.402273	0.923
KIAA1045	-0.49	0.378308	0.923
KPTN	-0.49	0.378308	0.923
KRTAP9-8	-0.49	0.378308	0.923
MED16	-0.49	0.402272	0.923
NEU1	-0.49	0.378308	0.923
NEURL3	-0.49	0.378308	0.923
NGEF	-0.49	0.378308	0.923
OR4K2	-0.49	0.378307	0.923
PDGFRB	-0.49	0.378308	0.923
PDIA2	-0.49	0.378308	0.923
PKD1	-0.49	0.378308	0.923
PFDN6	-0.49	0.428939	0.931
PHACTR3	-0.49	0.42894	0.931
PHF5A	-0.49	0.42894	0.931
POLL	-0.49	0.378308	0.923
PPIAL4E	-0.49	0.42894	0.931
PPP1R42	-0.49	0.378308	0.923
PRSS53	-0.49	0.42894	0.931
PSTPIP2	-0.49	0.378308	0.923
RAB18	-0.49	0.378308	0.923
SEPW1	-0.49	0.428939	0.931
SFMBT2	-0.49	0.402272	0.923
SIAH3	-0.49	0.402273	0.923

SLC17A4	-0.49	0.378307	0.923
SLC29A1	-0.49	0.378308	0.923
SLC2A7	-0.49	0.402272	0.923
SLC52A2	-0.49	0.378308	0.923
SLK	-0.49	0.402273	0.923
SOCS7	-0.49	0.42894	0.931
SPANXC	-0.49	0.378308	0.923
SPINT1	-0.49	0.378308	0.923
STAG3	-0.49	0.378308	0.923
STK10	-0.49	0.378308	0.923
STMN2	-0.49	0.378308	0.923
STYXL1	-0.49	0.378307	0.923
TBC1D14	-0.49	0.378308	0.923
TBX6	-0.49	0.378307	0.923
TET3	-0.49	0.378307	0.923
TMEM143	-0.49	0.402273	0.923
TRABD2B	-0.49	0.378308	0.923
UNC13B	-0.49	0.378308	0.923
VWA5B1	-0.49	0.378308	0.923
WSB1	-0.49	0.402272	0.923
ZSCAN4	-0.49	0.378308	0.923
AIFM3	-0.48	0.387903	0.923
AMDHD1	-0.48	0.387903	0.923
ANKDD1A	-0.48	0.387903	0.923
ARAP2	-0.48	0.387902	0.923
AZI1	-0.48	0.438164	0.932
BANP	-0.48	0.387903	0.923
BEND6	-0.48	0.387903	0.923
BRWD3	-0.48	0.387903	0.923
BUB1	-0.48	0.387903	0.923
C11orf40	-0.48	0.387903	0.923
C14orf80	-0.48	0.387903	0.923
C15orf65	-0.48	0.387903	0.923
C6orf136	-0.48	0.387903	0.923
CD36	-0.48	0.387903	0.923
CDC42SE1	-0.48	0.387903	0.923
CENPT	-0.48	0.387903	0.923
CLEC3A	-0.48	0.387902	0.923
COL21A1	-0.48	0.387903	0.923
COLEC11	-0.48	0.387903	0.923
CSAG3	-0.48	0.387903	0.923
CT45A6	-0.48	0.387903	0.923
CYP2B6	-0.48	0.387903	0.923
DIRAS2	-0.48	0.387903	0.923
ERVV-2	-0.48	0.387903	0.923
FASTKD1	-0.48	0.387903	0.923
FGFR3	-0.48	0.387903	0.923

GNG2	-0.48	0.387903	0.923
GRINA	-0.48	0.387903	0.923
HIST1H2AE	-0.48	0.387903	0.923
HIST1H2AI	-0.48	0.387903	0.923
HIST1H2BB	-0.48	0.411665	0.93
HRASLS2	-0.48	0.387902	0.923
IGSF21	-0.48	0.387902	0.923
IRGM	-0.48	0.387903	0.923
IST1	-0.48	0.387903	0.923
KCNE2	-0.48	0.387903	0.923
KIAA1161	-0.48	0.411665	0.93
KMO	-0.48	0.387903	0.923
LEMD2	-0.48	0.387903	0.923
LRCH1	-0.48	0.438164	0.932
LRRC29	-0.48	0.387903	0.923
LUZP2	-0.48	0.387903	0.923
MAMDC2	-0.48	0.387902	0.923
MARK1	-0.48	0.387902	0.923
MERTK	-0.48	0.387903	0.923
METAP1	-0.48	0.387903	0.923
MSH6	-0.48	0.387903	0.923
MXD4	-0.48	0.387903	0.923
MYOF	-0.48	0.438164	0.932
NBPF1	-0.48	0.387903	0.923
NLGN1	-0.48	0.387903	0.923
NPTXR	-0.48	0.387902	0.923
NQO2	-0.48	0.387902	0.923
NUDT9	-0.48	0.387903	0.923
OAZ3	-0.48	0.387902	0.923
OR8B12	-0.48	0.387903	0.923
PIK3C2B	-0.48	0.387903	0.923
PIWIL4	-0.48	0.387903	0.923
PPIAL4F	-0.48	0.438163	0.932
PRCC	-0.48	0.411665	0.93
PRKG1	-0.48	0.411665	0.93
PRSS23	-0.48	0.387903	0.923
RAP1GAP2	-0.48	0.387903	0.923
RNF207	-0.48	0.387903	0.923
RPL13	-0.48	0.535602	0.953
SEC24B	-0.48	0.387902	0.923
SLC14A2	-0.48	0.387902	0.923
SNRPA	-0.48	0.387903	0.923
SPAG5	-0.48	0.387902	0.923
SPECC1L	-0.48	0.411665	0.93
SURF1	-0.48	0.387903	0.923
TRIM22	-0.48	0.387903	0.923
TUBB6	-0.48	0.387903	0.923

VWDE	-0.48	0.387902	0.923
ZFP69B	-0.48	0.387903	0.923
ZMAT1	-0.48	0.411665	0.93
ZNF607	-0.48	0.411666	0.93
ZNF69	-0.48	0.387903	0.923
ABHD14A	-0.47	0.397586	0.923
AKAP12	-0.47	0.44751	0.936
ALDH16A1	-0.47	0.397585	0.923
ANKRD34B	-0.47	0.397585	0.923
AQP5	-0.47	0.397586	0.923
C10orf105	-0.47	0.397586	0.923
C17orf82	-0.47	0.397586	0.923
C8orf44	-0.47	0.397585	0.923
CDCA4	-0.47	0.421211	0.931
CDH16	-0.47	0.397586	0.923
CDH26	-0.47	0.421211	0.931
CEP152	-0.47	0.397585	0.923
CHRND	-0.47	0.397585	0.923
CLTCL1	-0.47	0.42121	0.931
CPEB1	-0.47	0.421211	0.931
CPT1C	-0.47	0.397585	0.923
CSE1L	-0.47	0.476358	0.948
CTNNA2	-0.47	0.397585	0.923
CTXN1	-0.47	0.397585	0.923
CXorf64	-0.47	0.421211	0.931
DAB2	-0.47	0.397586	0.923
DEC1	-0.47	0.397585	0.923
DNAL1	-0.47	0.397586	0.923
DYRK3	-0.47	0.397585	0.923
EFHD1	-0.47	0.397585	0.923
FAM72D	-0.47	0.397585	0.923
FCHSD2	-0.47	0.397585	0.923
FERMT2	-0.47	0.397586	0.923
FMO3	-0.47	0.397585	0.923
FOS	-0.47	0.397585	0.923
FOXM1	-0.47	0.421211	0.931
GATA5	-0.47	0.397585	0.923
GLT6D1	-0.47	0.397586	0.923
GML	-0.47	0.397585	0.923
GRHL1	-0.47	0.397585	0.923
GYPC	-0.47	0.397585	0.923
HES1	-0.47	0.397586	0.923
HIST2H2AA1	-0.47	0.397585	0.923
HIST2H2AA2	-0.47	0.397585	0.923
HSPB9	-0.47	0.397585	0.923
IGF2BP3	-0.47	0.397585	0.923
IZUMO3	-0.47	0.397585	0.923

KIAA1429	-0.47	0.447511	0.936
KLHL10	-0.47	0.397585	0.923
KLHL18	-0.47	0.397585	0.923
KLRK1	-0.47	0.397585	0.923
KNG1	-0.47	0.397585	0.923
KRTAP13-2	-0.47	0.397585	0.923
LATS2	-0.47	0.397585	0.923
LDOC1L	-0.47	0.397586	0.923
LGALS9C	-0.47	0.397585	0.923
MAML3	-0.47	0.397585	0.923
MAP1B	-0.47	0.421211	0.931
MDM1	-0.47	0.421211	0.931
MTR	-0.47	0.397586	0.923
NEUROD4	-0.47	0.397585	0.923
NFKBIL1	-0.47	0.397586	0.923
NKX2-3	-0.47	0.397586	0.923
OC90	-0.47	0.397585	0.923
OR52K2	-0.47	0.397585	0.923
PARL	-0.47	0.42121	0.931
PASK	-0.47	0.397585	0.923
PHACTR2	-0.47	0.397586	0.923
PIK3R6	-0.47	0.397586	0.923
PLA2G1B	-0.47	0.397586	0.923
PLA2G4E	-0.47	0.397586	0.923
PPM1B	-0.47	0.397585	0.923
PPP1R3F	-0.47	0.42121	0.931
PRDM1	-0.47	0.421211	0.931
PRELP	-0.47	0.397585	0.923
PRKACG	-0.47	0.397585	0.923
PSEN2	-0.47	0.421211	0.931
SCUBE2	-0.47	0.397586	0.923
SEC11C	-0.47	0.397585	0.923
SESN3	-0.47	0.397585	0.923
SHFM1	-0.47	0.507907	0.949
SLC12A7	-0.47	0.421211	0.931
SLC16A14	-0.47	0.397585	0.923
SLC24A1	-0.47	0.397586	0.923
SLC35A5	-0.47	0.397586	0.923
SLC5A5	-0.47	0.397585	0.923
SLC6A7	-0.47	0.397585	0.923
SMAD1	-0.47	0.421211	0.931
SMIM21	-0.47	0.397586	0.923
SNRNP48	-0.47	0.421211	0.931
SOX21	-0.47	0.397585	0.923
SPN	-0.47	0.397586	0.923
STX1A	-0.47	0.397586	0.923
SUV420H2	-0.47	0.397586	0.923

TAB3	-0.47	0.421211	0.931
TAT	-0.47	0.397585	0.923
THEM4	-0.47	0.397585	0.923
THUMPD2	-0.47	0.397586	0.923
TMED10	-0.47	0.397585	0.923
TMEM144	-0.47	0.397586	0.923
UBE2Q2	-0.47	0.397585	0.923
UCK2	-0.47	0.397586	0.923
UCN	-0.47	0.397586	0.923
YWHAZ	-0.47	0.397586	0.923
ZNF346	-0.47	0.397585	0.923
ABHD1	-0.46	0.407438	0.923
ADAT1	-0.46	0.407438	0.923
ADCY6	-0.46	0.407438	0.923
AGBL5	-0.46	0.456996	0.939
AP2M1	-0.46	0.430927	0.931
B3GNT2	-0.46	0.407438	0.923
BAHCC1	-0.46	0.407438	0.923
BANF2	-0.46	0.407438	0.923
BDKRB2	-0.46	0.407438	0.923
BRD4	-0.46	0.485507	0.949
CARTPT	-0.46	0.407438	0.923
CATSPER1	-0.46	0.407438	0.923
CCDC112	-0.46	0.407438	0.923
CCSAP	-0.46	0.407438	0.923
CD101	-0.46	0.407438	0.923
CD19	-0.46	0.430927	0.931
CEBPZ	-0.46	0.430927	0.931
CGREF1	-0.46	0.407438	0.923
CLIC6	-0.46	0.430927	0.931
CLIP1	-0.46	0.407438	0.923
CPNE6	-0.46	0.407438	0.923
CT45A2	-0.46	0.407438	0.923
CTNNBL1	-0.46	0.407438	0.923
DCAF10	-0.46	0.407438	0.923
DDX53	-0.46	0.407438	0.923
DLX3	-0.46	0.407438	0.923
DPEP1	-0.46	0.407438	0.923
DPPA4	-0.46	0.407438	0.923
EAF2	-0.46	0.430927	0.931
ETNK1	-0.46	0.407438	0.923
FAM213A	-0.46	0.407438	0.923
FBXL15	-0.46	0.407438	0.923
FECH	-0.46	0.407438	0.923
FGFRL1	-0.46	0.407438	0.923
GAS6	-0.46	0.407438	0.923
GLRX	-0.46	0.407438	0.923

GPR116	-0.46	0.407438	0.923
HYAL1	-0.46	0.407438	0.923
INSM2	-0.46	0.407438	0.923
KIAA1009	-0.46	0.407438	0.923
KLF1	-0.46	0.407438	0.923
KLF10	-0.46	0.407438	0.923
KLF4	-0.46	0.407438	0.923
LAPTM4B	-0.46	0.407438	0.923
LARS	-0.46	0.456997	0.939
LBX1	-0.46	0.407438	0.923
LIMS2	-0.46	0.407438	0.923
LOXL2	-0.46	0.407438	0.923
LRP11	-0.46	0.407438	0.923
LRP4	-0.46	0.407438	0.923
MFNG	-0.46	0.430926	0.931
MMEL1	-0.46	0.407438	0.923
MON1A	-0.46	0.407438	0.923
MTMR8	-0.46	0.430927	0.931
NACA	-0.46	0.407438	0.923
NACA2	-0.46	0.407438	0.923
NGFRAP1	-0.46	0.407438	0.923
NOL9	-0.46	0.485507	0.949
NOX4	-0.46	0.407438	0.923
NYX	-0.46	0.407438	0.923
OR1L3	-0.46	0.430927	0.931
OR4C16	-0.46	0.407438	0.923
PAK6	-0.46	0.407438	0.923
PCDH11X	-0.46	0.407438	0.923
PCDHGB1	-0.46	0.407438	0.923
PLOD2	-0.46	0.407438	0.923
PMS1	-0.46	0.407438	0.923
PMVK	-0.46	0.407438	0.923
POU2F3	-0.46	0.407438	0.923
PRKRA	-0.46	0.407438	0.923
PRSS48	-0.46	0.407438	0.923
PYCARD	-0.46	0.407438	0.923
RAB3IL1	-0.46	0.407438	0.923
RPL10	-0.46	0.430927	0.931
RPL23A	-0.46	0.430926	0.931
RTTN	-0.46	0.407438	0.923
SART3	-0.46	0.485507	0.949
SDHB	-0.46	0.407438	0.923
SEC23A	-0.46	0.407438	0.923
SERGEF	-0.46	0.407438	0.923
SMS	-0.46	0.407438	0.923
SPOCK2	-0.46	0.407438	0.923
STRN3	-0.46	0.407438	0.923

SWI5	-0.46	0.430927	0.931
SYN3	-0.46	0.430927	0.931
SYT12	-0.46	0.407438	0.923
TMEM117	-0.46	0.407438	0.923
TMEM170A	-0.46	0.407438	0.923
TMEM252	-0.46	0.407438	0.923
TMEM66	-0.46	0.407438	0.923
TSC22D3	-0.46	0.407438	0.923
TSPAN13	-0.46	0.407438	0.923
TXLNA	-0.46	0.430927	0.931
UGT2B7	-0.46	0.407438	0.923
ZBTB3	-0.46	0.407438	0.923
ZCCHC18	-0.46	0.407438	0.923
ZFY	-0.46	0.407438	0.923
ZNF268	-0.46	0.407438	0.923
ZNF524	-0.46	0.407438	0.923
ZNF830	-0.46	0.430926	0.931
A2M	-0.45	0.417344	0.93
AHNAK	-0.45	0.417344	0.93
AKT2	-0.45	0.417344	0.93
AP3S1	-0.45	0.417344	0.93
ARFGAP3	-0.45	0.417344	0.93
ARSI	-0.45	0.417344	0.93
ATF6B	-0.45	0.417344	0.93
BEND5	-0.45	0.440799	0.935
BICD2	-0.45	0.417345	0.93
C19orf40	-0.45	0.417344	0.93
CABP4	-0.45	0.417344	0.93
CFAP45	-0.45	0.560756	0.957
CFL1	-0.45	0.560756	0.957
CLRN2	-0.45	0.417344	0.93
DAG1	-0.45	0.417344	0.93
DGKZ	-0.45	0.417345	0.93
DOCK9	-0.45	0.417344	0.93
EEF2K	-0.45	0.417344	0.93
ELN	-0.45	0.417344	0.93
EPHX3	-0.45	0.417344	0.93
EVA1A	-0.45	0.417344	0.93
FAHD2A	-0.45	0.440798	0.935
FAM157B	-0.45	0.417344	0.93
FAM47C	-0.45	0.417345	0.93
FBP2	-0.45	0.417344	0.93
FBXO27	-0.45	0.417344	0.93
FRMD7	-0.45	0.440798	0.935
GIPC1	-0.45	0.417344	0.93
GNGT2	-0.45	0.417344	0.93
HOXD13	-0.45	0.417344	0.93

HYDIN	-0.45	0.417344	0.93
IL2	-0.45	0.417345	0.93
IL6ST	-0.45	0.417344	0.93
JMJD1C	-0.45	0.417344	0.93
KIF3A	-0.45	0.417345	0.93
LAD1	-0.45	0.440799	0.935
LAMC1	-0.45	0.417344	0.93
LAMTOR1	-0.45	0.417344	0.93
LRRC14	-0.45	0.417344	0.93
LTBP2	-0.45	0.417345	0.93
M1AP	-0.45	0.417345	0.93
MUC15	-0.45	0.440798	0.935
MUC5B	-0.45	0.466627	0.944
MYRIP	-0.45	0.466626	0.944
N6AMT2	-0.45	0.417344	0.93
NEFL	-0.45	0.417344	0.93
NKPD1	-0.45	0.440799	0.935
NOVA2	-0.45	0.417345	0.93
OLIG1	-0.45	0.417344	0.93
OPN1SW	-0.45	0.417345	0.93
OR1G1	-0.45	0.417344	0.93
PHB2	-0.45	0.466626	0.944
PIP4K2A	-0.45	0.466626	0.944
PLAC8L1	-0.45	0.417345	0.93
PLEKHS1	-0.45	0.417344	0.93
POC1B-GAL	-0.45	0.417344	0.93
POTEI	-0.45	0.466627	0.944
POU1F1	-0.45	0.417345	0.93
PRAME	-0.45	0.417344	0.93
PRDX3	-0.45	0.417344	0.93
PRRT2	-0.45	0.417345	0.93
RAC3	-0.45	0.417344	0.93
RGS14	-0.45	0.417344	0.93
RHBDL1	-0.45	0.417344	0.93
RHEBL1	-0.45	0.417344	0.93
RUNX1T1	-0.45	0.417344	0.93
SMKR1	-0.45	0.440799	0.935
SMPD1	-0.45	0.440799	0.935
SPATA31A5	-0.45	0.417344	0.93
SRSF1	-0.45	0.494734	0.949
STUB1	-0.45	0.417344	0.93
SYT17	-0.45	0.440799	0.935
TESC	-0.45	0.417344	0.93
THBS3	-0.45	0.417345	0.93
TMEM132A	-0.45	0.417344	0.93
TMEM178B	-0.45	0.417344	0.93
TMEM31	-0.45	0.417345	0.93

UROD	-0.45	0.466626	0.944
USP6NL	-0.45	0.417345	0.93
ZHX1	-0.45	0.440798	0.935
ZNF682	-0.45	0.417344	0.93
ABCD4	-0.44	0.45069	0.938
ABLIM3	-0.44	0.45069	0.938
AGAP8	-0.44	0.45069	0.938
AMY2A	-0.44	0.427498	0.931
APIP	-0.44	0.427498	0.931
ARHGAP40	-0.44	0.427497	0.931
ATF7IP2	-0.44	0.427498	0.931
ATP6V0A4	-0.44	0.427498	0.931
ATP6V1H	-0.44	0.427498	0.931
AXIN2	-0.44	0.45069	0.938
C11orf73	-0.44	0.427498	0.931
C1orf210	-0.44	0.427497	0.931
C4orf19	-0.44	0.427497	0.931
C5orf47	-0.44	0.427498	0.931
C9orf114	-0.44	0.427498	0.931
CA10	-0.44	0.427497	0.931
CC2D2A	-0.44	0.427498	0.931
CCDC155	-0.44	0.45069	0.938
CD27	-0.44	0.427497	0.931
CDHR1	-0.44	0.427497	0.931
CDRT1	-0.44	0.427498	0.931
CHERP	-0.44	0.427498	0.931
CLIP2	-0.44	0.427498	0.931
CLMP	-0.44	0.45069	0.938
CYTH2	-0.44	0.427498	0.931
DNASE1L1	-0.44	0.427497	0.931
DNPEP	-0.44	0.427498	0.931
DSCR3	-0.44	0.427498	0.931
DYNC2LI1	-0.44	0.427498	0.931
ELOVL2	-0.44	0.427498	0.931
EPHB3	-0.44	0.427498	0.931
FAM83B	-0.44	0.427498	0.931
FCGR2B	-0.44	0.45069	0.938
FGF23	-0.44	0.427498	0.931
GAGE2A	-0.44	0.569207	0.957
GNAI1	-0.44	0.427498	0.931
GNAI3	-0.44	0.427498	0.931
HGC6,3	-0.44	0.607888	0.96
IL18RAP	-0.44	0.427498	0.931
IRF5	-0.44	0.427498	0.931
KCNK12	-0.44	0.427498	0.931
KCTD9	-0.44	0.427497	0.931
KIAA1211L	-0.44	0.45069	0.938

KIAA1430	-0.44	0.427498	0.931
LPHN2	-0.44	0.427498	0.931
LRRFIP2	-0.44	0.427498	0.931
MFSD1	-0.44	0.427498	0.931
MGST3	-0.44	0.427497	0.931
MS4A18	-0.44	0.45069	0.938
MST1R	-0.44	0.427498	0.931
MYCBP2	-0.44	0.427498	0.931
MYH14	-0.44	0.45069	0.938
NPDC1	-0.44	0.427498	0.931
NPIPA5	-0.44	0.504076	0.949
NRK	-0.44	0.427498	0.931
OLFM3	-0.44	0.427497	0.931
OR10G2	-0.44	0.427498	0.931
OR5L1	-0.44	0.427498	0.931
OR6N1	-0.44	0.427498	0.931
PARD6G	-0.44	0.427497	0.931
PCMTD1	-0.44	0.427498	0.931
PDE4D	-0.44	0.427497	0.931
PDZD7	-0.44	0.45069	0.938
POTED	-0.44	0.427498	0.931
PQLC3	-0.44	0.427497	0.931
PRDM14	-0.44	0.427498	0.931
PRKX	-0.44	0.45069	0.938
PROP1	-0.44	0.427497	0.931
PRSS42	-0.44	0.427498	0.931
REC8	-0.44	0.427498	0.931
RHOXF2	-0.44	0.427498	0.931
RIMS1	-0.44	0.427498	0.931
RLN3	-0.44	0.427497	0.931
RORB	-0.44	0.427498	0.931
SH3RF1	-0.44	0.427498	0.931
SIX5	-0.44	0.45069	0.938
SLC13A3	-0.44	0.45069	0.938
SLC17A3	-0.44	0.427498	0.931
SLC27A5	-0.44	0.427498	0.931
SLC39A5	-0.44	0.476372	0.948
SRI	-0.44	0.427497	0.931
STRAP	-0.44	0.427498	0.931
STX3	-0.44	0.427498	0.931
TAS2R8	-0.44	0.427498	0.931
TECTB	-0.44	0.427497	0.931
THTPA	-0.44	0.427497	0.931
TMEM110-M	-0.44	0.427498	0.931
TMEM257	-0.44	0.45069	0.938
TMIE	-0.44	0.427498	0.931
TNFSF8	-0.44	0.427497	0.931

TNRC6B	-0.44	0.427498	0.931
TRIM64C	-0.44	0.427498	0.931
ACOT12	-0.43	0.437707	0.931
ADIG	-0.43	0.437707	0.931
ANXA2R	-0.43	0.460768	0.941
AP1G2	-0.43	0.437706	0.931
ARL6	-0.43	0.437707	0.931
ART3	-0.43	0.437706	0.931
ASB18	-0.43	0.437707	0.931
BAZ2A	-0.43	0.460768	0.941
C14orf182	-0.43	0.437707	0.931
C16orf3	-0.43	0.437707	0.931
C22orf42	-0.43	0.437707	0.931
C6orf10	-0.43	0.437706	0.931
CDH18	-0.43	0.437707	0.931
CEBPB	-0.43	0.437706	0.931
CFHR4	-0.43	0.437707	0.931
CHADL	-0.43	0.437707	0.931
CLEC7A	-0.43	0.437707	0.931
CRISPLD1	-0.43	0.437707	0.931
CST1	-0.43	0.460768	0.941
CYP2C19	-0.43	0.437706	0.931
DDR GK1	-0.43	0.460768	0.941
DET1	-0.43	0.437706	0.931
DNAJA3	-0.43	0.460768	0.941
DTD1	-0.43	0.437706	0.931
DUSP2	-0.43	0.437707	0.931
E2F6	-0.43	0.437706	0.931
ERCC6L2	-0.43	0.437707	0.931
FAM120A	-0.43	0.437706	0.931
FAM131C	-0.43	0.437707	0.931
FAM47E-STI	-0.43	0.437707	0.931
FNTA	-0.43	0.437706	0.931
FSCN3	-0.43	0.437706	0.931
GPR137C	-0.43	0.460768	0.941
GRPEL2	-0.43	0.437706	0.931
HIST1H2AL	-0.43	0.460768	0.941
HIST1H3H	-0.43	0.437706	0.931
HOXB9	-0.43	0.437707	0.931
IQCJ	-0.43	0.437707	0.931
IRX5	-0.43	0.437707	0.931
JUNB	-0.43	0.460768	0.941
KAT2B	-0.43	0.437707	0.931
KCTD20	-0.43	0.437706	0.931
KIAA1407	-0.43	0.437707	0.931
KIF1B	-0.43	0.437706	0.931
KIR2DL4	-0.43	0.437706	0.931

LCMT1	-0.43	0.437707	0.931
LGALS9	-0.43	0.437706	0.931
LOC1001345	-0.43	0.437707	0.931
MACF1	-0.43	0.437707	0.931
MECOM	-0.43	0.437707	0.931
MKS1	-0.43	0.437707	0.931
MRS2	-0.43	0.437707	0.931
MYBPHL	-0.43	0.437707	0.931
NEK10	-0.43	0.437707	0.931
NEXN	-0.43	0.437707	0.931
NOMO3	-0.43	0.460768	0.941
ODF3L2	-0.43	0.437707	0.931
OR2A1	-0.43	0.437706	0.931
OR2A42	-0.43	0.437707	0.931
OR52N4	-0.43	0.437707	0.931
PALD1	-0.43	0.437707	0.931
PAX7	-0.43	0.437707	0.931
PHF10	-0.43	0.437706	0.931
PIGL	-0.43	0.437707	0.931
PRAF2	-0.43	0.437706	0.931
PRR11	-0.43	0.437706	0.931
PRRX1	-0.43	0.437706	0.931
RBBP8	-0.43	0.437706	0.931
RBM42	-0.43	0.460768	0.941
RBM43	-0.43	0.437707	0.931
RFXAP	-0.43	0.460768	0.941
RGS22	-0.43	0.437706	0.931
RRP36	-0.43	0.437707	0.931
SCARF2	-0.43	0.437706	0.931
SGK3	-0.43	0.437707	0.931
SIN3B	-0.43	0.437707	0.931
SIPA1L2	-0.43	0.437707	0.931
SLC22A4	-0.43	0.437706	0.931
SLCO2A1	-0.43	0.437706	0.931
SNAP23	-0.43	0.460768	0.941
SNX33	-0.43	0.437707	0.931
ST13	-0.43	0.437706	0.931
TMEM106A	-0.43	0.437707	0.931
TMEM14E	-0.43	0.437707	0.931
TMEM208	-0.43	0.437707	0.931
TMEM231	-0.43	0.437707	0.931
TPD52	-0.43	0.437706	0.931
TUBD1	-0.43	0.437707	0.931
VN1R5	-0.43	0.437707	0.931
ZNF789	-0.43	0.437706	0.931
AHSA1	-0.42	0.448171	0.936
AHSG	-0.42	0.448172	0.936

ANGPT2	-0.42	0.448172	0.936
APOL6	-0.42	0.471025	0.945
ARX	-0.42	0.448171	0.936
ATG13	-0.42	0.471025	0.945
B4GALNT1	-0.42	0.448171	0.936
BNIP2	-0.42	0.448171	0.936
C17orf98	-0.42	0.471025	0.945
CC2D1B	-0.42	0.448171	0.936
COL25A1	-0.42	0.448171	0.936
COX11	-0.42	0.448172	0.936
DCC	-0.42	0.448172	0.936
DHRS12	-0.42	0.448172	0.936
DSC2	-0.42	0.471025	0.945
EMP2	-0.42	0.448172	0.936
ERBB2IP	-0.42	0.448171	0.936
FAM107B	-0.42	0.448172	0.936
FBXO36	-0.42	0.448172	0.936
FXR2	-0.42	0.448171	0.936
FZD4	-0.42	0.471025	0.945
GLRB	-0.42	0.448172	0.936
GPR19	-0.42	0.448172	0.936
GPR62	-0.42	0.448172	0.936
GZMK	-0.42	0.448172	0.936
HDAC3	-0.42	0.471025	0.945
HOXA2	-0.42	0.471025	0.945
HVCN1	-0.42	0.448172	0.936
IL3RA	-0.42	0.448172	0.936
IRF4	-0.42	0.448172	0.936
LEPREL1	-0.42	0.448171	0.936
MID2	-0.42	0.471025	0.945
NUCB2	-0.42	0.448172	0.936
NUP133	-0.42	0.448171	0.936
NUTM2D	-0.42	0.448172	0.936
OR51F1	-0.42	0.448172	0.936
OSBPL3	-0.42	0.448171	0.936
PCBP4	-0.42	0.471025	0.945
PCDH15	-0.42	0.448172	0.936
PCDHA4	-0.42	0.448172	0.936
PCDHGA2	-0.42	0.448172	0.936
PCDHGA9	-0.42	0.448171	0.936
PDPK1	-0.42	0.448172	0.936
PDXP	-0.42	0.448172	0.936
PDZRN3	-0.42	0.448171	0.936
PEAR1	-0.42	0.448172	0.936
PFDN2	-0.42	0.448171	0.936
PLSCR4	-0.42	0.448171	0.936
PMS2	-0.42	0.448172	0.936

PPIE	-0.42	0.448171	0.936
PTK2	-0.42	0.448171	0.936
PVRIG	-0.42	0.471025	0.945
SERPINB11	-0.42	0.471025	0.945
SF1	-0.42	0.471025	0.945
SFRP4	-0.42	0.448172	0.936
SLC15A5	-0.42	0.448172	0.936
SOD3	-0.42	0.448171	0.936
SPRED3	-0.42	0.448172	0.936
TAAR2	-0.42	0.448171	0.936
TCEAL7	-0.42	0.448172	0.936
TEF	-0.42	0.448172	0.936
TIGD3	-0.42	0.448172	0.936
TJAP1	-0.42	0.471025	0.945
TLL2	-0.42	0.448172	0.936
TMEM136	-0.42	0.448171	0.936
TMEM79	-0.42	0.448172	0.936
TMEM89	-0.42	0.448172	0.936
TMOD2	-0.42	0.448171	0.936
UGT2B15	-0.42	0.448171	0.936
VEGFC	-0.42	0.448172	0.936
WDR38	-0.42	0.448171	0.936
XKR6	-0.42	0.448171	0.936
ZHX1-C8OR	-0.42	0.448171	0.936
ZNF418	-0.42	0.448171	0.936
ZNF429	-0.42	0.448172	0.936
ZNF44	-0.42	0.448172	0.936
ZNF705B	-0.42	0.448172	0.936
ZNF708	-0.42	0.448171	0.936
ZNF732	-0.42	0.448171	0.936
ZNF763	-0.42	0.471025	0.945
ZSWIM7	-0.42	0.448172	0.936
A4GNT	-0.41	0.458735	0.939
ACTR10	-0.41	0.481333	0.948
AGAP9	-0.41	0.458734	0.939
APBB1	-0.41	0.458735	0.939
ARHGAP27	-0.41	0.481333	0.948
ARIH1	-0.41	0.458734	0.939
ASAP1	-0.41	0.458734	0.939
ASIP	-0.41	0.458735	0.939
ATF3	-0.41	0.458734	0.939
ATG9B	-0.41	0.458735	0.939
C12orf56	-0.41	0.458734	0.939
C3orf58	-0.41	0.458734	0.939
C9orf152	-0.41	0.458734	0.939
CACNA1C	-0.41	0.458734	0.939
CASD1	-0.41	0.458735	0.939

CCDC70	-0.41	0.458734	0.939
CD97	-0.41	0.458734	0.939
CENPK	-0.41	0.481333	0.948
CFAP99	-0.41	0.458734	0.939
CHTF8	-0.41	0.458735	0.939
CMC4	-0.41	0.50615	0.949
COLCA1	-0.41	0.458734	0.939
CRB3	-0.41	0.458734	0.939
CYP2S1	-0.41	0.458734	0.939
EFCC1	-0.41	0.50615	0.949
EPS8	-0.41	0.458734	0.939
FAM110C	-0.41	0.506149	0.949
GMDS	-0.41	0.481333	0.948
GNAT2	-0.41	0.481333	0.948
GNPTAB	-0.41	0.458734	0.939
GOLT1A	-0.41	0.458734	0.939
HAND2	-0.41	0.458734	0.939
HAO1	-0.41	0.481334	0.948
HDAC8	-0.41	0.458735	0.939
HPRT1	-0.41	0.481333	0.948
KIAA1958	-0.41	0.50615	0.949
KLHL1	-0.41	0.458735	0.939
KMT2A	-0.41	0.458734	0.939
KRT26	-0.41	0.458734	0.939
LRFN2	-0.41	0.458734	0.939
MAGEA2	-0.41	0.458734	0.939
MAP4K3	-0.41	0.458735	0.939
MAP7D3	-0.41	0.458735	0.939
MKRN2	-0.41	0.458735	0.939
MMP14	-0.41	0.481333	0.948
NKX2-2	-0.41	0.458735	0.939
NPAS4	-0.41	0.458735	0.939
NRD1	-0.41	0.458734	0.939
OR4F5	-0.41	0.481333	0.948
OR51E1	-0.41	0.458734	0.939
ORC5	-0.41	0.458735	0.939
ORMDL1	-0.41	0.458735	0.939
OVGP1	-0.41	0.458734	0.939
PABPN1	-0.41	0.481334	0.948
PHF12	-0.41	0.458734	0.939
PIH1D3	-0.41	0.458734	0.939
PITPNM2	-0.41	0.481334	0.948
PLD5	-0.41	0.458735	0.939
POTEA	-0.41	0.458734	0.939
PPP1R3C	-0.41	0.481334	0.948
PRICKLE3	-0.41	0.458734	0.939
PRPSAP2	-0.41	0.458734	0.939

RAB3B	-0.41	0.458734	0.939
RANBP3	-0.41	0.458734	0.939
RBFA	-0.41	0.458734	0.939
RBMX	-0.41	0.458734	0.939
RIPPLY1	-0.41	0.458734	0.939
RLN2	-0.41	0.458734	0.939
SEC13	-0.41	0.50615	0.949
SF3B4	-0.41	0.50615	0.949
SFTA2	-0.41	0.481333	0.948
SGIP1	-0.41	0.481333	0.948
SH2D1A	-0.41	0.458734	0.939
SLITRK1	-0.41	0.458734	0.939
SOX15	-0.41	0.458734	0.939
SPRYD7	-0.41	0.458735	0.939
T	-0.41	0.458735	0.939
TMEM140	-0.41	0.458735	0.939
TMEM180	-0.41	0.458734	0.939
TRIM61	-0.41	0.481334	0.948
UBB	-0.41	0.458734	0.939
UBE2B	-0.41	0.458734	0.939
USP47	-0.41	0.458734	0.939
WDR49	-0.41	0.458734	0.939
WDR64	-0.41	0.458734	0.939
ZBED3	-0.41	0.458734	0.939
ZDHHC9	-0.41	0.458734	0.939
ZNF382	-0.41	0.458734	0.939
ZNF606	-0.41	0.458734	0.939
ZP1	-0.41	0.458734	0.939
AK2	-0.4	0.469499	0.944
AKR7A3	-0.4	0.469499	0.944
ANAPC5	-0.4	0.469499	0.944
B3GNT6	-0.4	0.469499	0.944
BAG1	-0.4	0.469499	0.944
BRICD5	-0.4	0.469499	0.944
C10orf107	-0.4	0.469499	0.944
C1QTNF9	-0.4	0.491799	0.949
C21orf59	-0.4	0.491799	0.949
CABP1	-0.4	0.469499	0.944
CAPZA3	-0.4	0.469499	0.944
CCK	-0.4	0.469499	0.944
CDK18	-0.4	0.469499	0.944
CHCHD7	-0.4	0.469499	0.944
CNOT10	-0.4	0.469499	0.944
CPN2	-0.4	0.469499	0.944
CST11	-0.4	0.469499	0.944
DHDDS	-0.4	0.516259	0.949
DNAJB2	-0.4	0.542515	0.955

EIF4EBP3	-0.4	0.469499	0.944
ELAC1	-0.4	0.469499	0.944
EMR3	-0.4	0.469499	0.944
EPS15L1	-0.4	0.469499	0.944
ERC2	-0.4	0.469499	0.944
ETF1	-0.4	0.469499	0.944
FAM199X	-0.4	0.469499	0.944
FTMT	-0.4	0.469499	0.944
GAS7	-0.4	0.469499	0.944
GATA2	-0.4	0.491799	0.949
GBA3	-0.4	0.491799	0.949
GIMAP8	-0.4	0.469499	0.944
GON4L	-0.4	0.491799	0.949
GSR	-0.4	0.491799	0.949
GSTA1	-0.4	0.469499	0.944
GSX1	-0.4	0.491799	0.949
HEATR6	-0.4	0.469499	0.944
HS6ST2	-0.4	0.469499	0.944
ISG20L2	-0.4	0.491799	0.949
JAK3	-0.4	0.469499	0.944
KANSL1	-0.4	0.491799	0.949
KCNQ1	-0.4	0.469499	0.944
KIAA0430	-0.4	0.469499	0.944
KIF18A	-0.4	0.469499	0.944
KIR3DL3	-0.4	0.469499	0.944
KLHDC9	-0.4	0.469499	0.944
KRTAP23-1	-0.4	0.469499	0.944
KRTAP3-2	-0.4	0.469499	0.944
KRTAP5-2	-0.4	0.469499	0.944
LAMB2	-0.4	0.491799	0.949
LCE1D	-0.4	0.469499	0.944
LRFN3	-0.4	0.469499	0.944
MAGEA2B	-0.4	0.469499	0.944
MAGEB17	-0.4	0.469499	0.944
MAX	-0.4	0.491799	0.949
MRPL15	-0.4	0.491799	0.949
MUC16	-0.4	0.469499	0.944
NAT8L	-0.4	0.469499	0.944
NKIRAS1	-0.4	0.469499	0.944
NOXA1	-0.4	0.491799	0.949
OR2W5	-0.4	0.469499	0.944
OR4D1	-0.4	0.469499	0.944
OR6T1	-0.4	0.469499	0.944
PLA2G2C	-0.4	0.516259	0.949
POLR2E	-0.4	0.516259	0.949
PPP3CB	-0.4	0.469499	0.944
PRRX2	-0.4	0.469499	0.944

PTGES3L	-0.4	0.469499	0.944
RAD21L1	-0.4	0.469499	0.944
SH2B3	-0.4	0.469499	0.944
SLC16A2	-0.4	0.491799	0.949
SLC22A13	-0.4	0.469499	0.944
STMN1	-0.4	0.469499	0.944
TBC1D31	-0.4	0.469499	0.944
TCF3	-0.4	0.516258	0.949
TMEM63A	-0.4	0.469499	0.944
TNFRSF21	-0.4	0.469499	0.944
TRMT1L	-0.4	0.469499	0.944
TSPAN32	-0.4	0.469499	0.944
UBE2A	-0.4	0.469499	0.944
USMG5	-0.4	0.639944	0.963
UTP23	-0.4	0.469499	0.944
WDR77	-0.4	0.491799	0.949
ZBTB26	-0.4	0.469499	0.944
ZNF578	-0.4	0.469499	0.944
ZNF619	-0.4	0.469499	0.944
ACHE	-0.39	0.480374	0.948
ACP1	-0.39	0.480374	0.948
ADAL	-0.39	0.480374	0.948
AIG1	-0.39	0.480374	0.948
AMELX	-0.39	0.526541	0.951
BRCC3	-0.39	0.480374	0.948
C1orf110	-0.39	0.480374	0.948
C2	-0.39	0.480374	0.948
CACTIN	-0.39	0.480374	0.948
CDC37L1	-0.39	0.480374	0.948
CDYL2	-0.39	0.480374	0.948
CEP57L1	-0.39	0.480374	0.948
CEP70	-0.39	0.480374	0.948
CHRNA4	-0.39	0.480374	0.948
CREB3L1	-0.39	0.480374	0.948
CTAGE5	-0.39	0.480374	0.948
CYP27C1	-0.39	0.480374	0.948
DMBT1	-0.39	0.480374	0.948
EGFL6	-0.39	0.480374	0.948
EMR1	-0.39	0.480374	0.948
ESYT2	-0.39	0.480374	0.948
FCHO2	-0.39	0.480374	0.948
FH	-0.39	0.52654	0.951
FLJ45513	-0.39	0.5024	0.949
FOXP2	-0.39	0.480374	0.948
FZD1	-0.39	0.480374	0.948
GINM1	-0.39	0.480374	0.948
GLCE	-0.39	0.480374	0.948

GSTA3	-0.39	0.480374	0.948
HBQ1	-0.39	0.480374	0.948
HERC3	-0.39	0.480374	0.948
HNRNPL	-0.39	0.552322	0.957
IL1R2	-0.39	0.480374	0.948
KRTAP4-11	-0.39	0.5024	0.949
LGALS2	-0.39	0.502399	0.949
LHFPL4	-0.39	0.480374	0.948
LIPC	-0.39	0.480374	0.948
MATN1	-0.39	0.480374	0.948
MECP2	-0.39	0.480374	0.948
METRNL	-0.39	0.480374	0.948
NDUFS3	-0.39	0.5024	0.949
NOVA1	-0.39	0.480374	0.948
OOEP	-0.39	0.480374	0.948
OR2B2	-0.39	0.480374	0.948
OSCP1	-0.39	0.480374	0.948
PABPC1L	-0.39	0.480374	0.948
PGLYRP3	-0.39	0.480374	0.948
PHF1	-0.39	0.5024	0.949
PLA1A	-0.39	0.480374	0.948
PLXNB3	-0.39	0.480374	0.948
PNMA2	-0.39	0.480374	0.948
PTN	-0.39	0.480374	0.948
PTPRT	-0.39	0.480374	0.948
RAD9A	-0.39	0.5024	0.949
RFT1	-0.39	0.5024	0.949
RSC1A1	-0.39	0.480374	0.948
SAT1	-0.39	0.480374	0.948
SCYL3	-0.39	0.480374	0.948
SDC1	-0.39	0.480374	0.948
SEMA5A	-0.39	0.480374	0.948
SERPINF2	-0.39	0.480374	0.948
SLC5A6	-0.39	0.480374	0.948
SLX4	-0.39	0.480374	0.948
SNX25	-0.39	0.480374	0.948
SPATA31A3	-0.39	0.480374	0.948
SPDYE2	-0.39	0.480374	0.948
SPDYE2B	-0.39	0.480374	0.948
TAB2	-0.39	0.5024	0.949
TAF5	-0.39	0.580773	0.957
TCP11X2	-0.39	0.480374	0.948
TEX19	-0.39	0.480374	0.948
TEX26	-0.39	0.480374	0.948
TK1	-0.39	0.480374	0.948
TMEM128	-0.39	0.526541	0.951
TNFRSF6B	-0.39	0.480374	0.948

TNRC6C	-0.39	0.5024	0.949
TRIM74	-0.39	0.502399	0.949
TSGA10	-0.39	0.480374	0.948
TSPAN9	-0.39	0.480374	0.948
TXLNB	-0.39	0.480374	0.948
VANGL2	-0.39	0.480374	0.948
WNT16	-0.39	0.52654	0.951
ZCCHC11	-0.39	0.5024	0.949
ZXDA	-0.39	0.480374	0.948
ACTR1A	-0.38	0.491394	0.949
ACVR1B	-0.38	0.491394	0.949
AKAP11	-0.38	0.513155	0.949
ANKRD22	-0.38	0.491393	0.949
ARHGAP18	-0.38	0.491394	0.949
ARMCX6	-0.38	0.491394	0.949
ASB2	-0.38	0.513155	0.949
ATL3	-0.38	0.491394	0.949
ATPAF1	-0.38	0.491394	0.949
B3GALT4	-0.38	0.513155	0.949
BCAT1	-0.38	0.513155	0.949
BOLA2	-0.38	0.513155	0.949
BOLA2B	-0.38	0.513155	0.949
C10orf128	-0.38	0.491394	0.949
C2orf15	-0.38	0.513155	0.949
CCDC54	-0.38	0.491394	0.949
CDC47	-0.38	0.491394	0.949
CDH15	-0.38	0.513155	0.949
CHML	-0.38	0.491393	0.949
CLDN5	-0.38	0.513155	0.949
COL11A2	-0.38	0.513155	0.949
CXorf40B	-0.38	0.491394	0.949
CYP26B1	-0.38	0.491394	0.949
CYP2R1	-0.38	0.513155	0.949
DDAH2	-0.38	0.491394	0.949
DDR2	-0.38	0.491394	0.949
DEFB127	-0.38	0.491394	0.949
DGKD	-0.38	0.491393	0.949
DLGAP3	-0.38	0.491394	0.949
DNAH11	-0.38	0.491394	0.949
DTNA	-0.38	0.491394	0.949
EIF4E1B	-0.38	0.513155	0.949
ELK1	-0.38	0.491394	0.949
ELOVL3	-0.38	0.491394	0.949
ESPN	-0.38	0.513154	0.949
FAM135A	-0.38	0.491394	0.949
FGF7	-0.38	0.513155	0.949
FXYP1	-0.38	0.491394	0.949

GALNTL6	-0.38	0.491394	0.949
GATAD2B	-0.38	0.491394	0.949
GCKR	-0.38	0.491394	0.949
GDF7	-0.38	0.491394	0.949
GJB1	-0.38	0.513155	0.949
GMPR	-0.38	0.491393	0.949
GNB1L	-0.38	0.513155	0.949
GTF2IRD2	-0.38	0.491394	0.949
IRF9	-0.38	0.491394	0.949
KBTBD11	-0.38	0.513154	0.949
KIAA1755	-0.38	0.513154	0.949
KLHL26	-0.38	0.491394	0.949
KLHL34	-0.38	0.513155	0.949
KRTAP12-3	-0.38	0.491394	0.949
KRTAP9-7	-0.38	0.491394	0.949
LUM	-0.38	0.491393	0.949
MARCH2	-0.38	0.513155	0.949
MGARP	-0.38	0.491394	0.949
MRPS33	-0.38	0.513155	0.949
MT1B	-0.38	0.491394	0.949
NRROS	-0.38	0.491394	0.949
NYNRIN	-0.38	0.513155	0.949
ONECUT2	-0.38	0.491394	0.949
OR4C13	-0.38	0.491394	0.949
OR4X2	-0.38	0.491393	0.949
PAPL	-0.38	0.491394	0.949
PARK7	-0.38	0.491394	0.949
PARS2	-0.38	0.491394	0.949
PDE6G	-0.38	0.491393	0.949
PKHD1L1	-0.38	0.513155	0.949
PNKP	-0.38	0.562257	0.957
PNLIPRP2	-0.38	0.491394	0.949
PPIC	-0.38	0.491394	0.949
PPP2CA	-0.38	0.491393	0.949
RPL38	-0.38	0.536856	0.953
SCN4B	-0.38	0.491393	0.949
SEMA4B	-0.38	0.491394	0.949
SGCB	-0.38	0.491394	0.949
SLC30A10	-0.38	0.513155	0.949
SLC7A2	-0.38	0.491394	0.949
SNX9	-0.38	0.491394	0.949
SOCS5	-0.38	0.491394	0.949
SOGA3	-0.38	0.513155	0.949
SPATA31D3	-0.38	0.491393	0.949
SPRYD3	-0.38	0.491394	0.949
SSR4	-0.38	0.491394	0.949
SYNE2	-0.38	0.491394	0.949

TAAR5	-0.38	0.491394	0.949
TBX1	-0.38	0.491394	0.949
TIAM2	-0.38	0.491394	0.949
TMEM176A	-0.38	0.491394	0.949
TMEM51	-0.38	0.491394	0.949
TNFSF12	-0.38	0.491394	0.949
TRIP4	-0.38	0.491394	0.949
TTC17	-0.38	0.491394	0.949
USP39	-0.38	0.513155	0.949
WAPAL	-0.38	0.536857	0.953
YAP1	-0.38	0.491394	0.949
YPEL2	-0.38	0.491394	0.949
ZBED1	-0.38	0.491394	0.949
ZNF259	-0.38	0.513155	0.949
ZNF324	-0.38	0.491394	0.949
ZNF398	-0.38	0.491394	0.949
ADAMTS2	-0.37	0.502471	0.949
ADCY4	-0.37	0.50247	0.949
ALS2	-0.37	0.523973	0.949
ARPC5	-0.37	0.502471	0.949
C17orf89	-0.37	0.502471	0.949
C1QTNF4	-0.37	0.50247	0.949
C7orf61	-0.37	0.523973	0.949
CASP4	-0.37	0.502471	0.949
CBX7	-0.37	0.502471	0.949
CCDC144NL	-0.37	0.502471	0.949
CCR3	-0.37	0.502471	0.949
CD1B	-0.37	0.50247	0.949
CD248	-0.37	0.50247	0.949
CD34	-0.37	0.523973	0.949
CLEC16A	-0.37	0.50247	0.949
COL4A1	-0.37	0.50247	0.949
CRIPAK	-0.37	0.502471	0.949
CUL7	-0.37	0.502471	0.949
CYP4F3	-0.37	0.502471	0.949
D2HGDH	-0.37	0.502471	0.949
DCHS1	-0.37	0.502471	0.949
DCN	-0.37	0.502471	0.949
DMPK	-0.37	0.50247	0.949
DNASE1L3	-0.37	0.54737	0.955
DPPA5	-0.37	0.502471	0.949
ELOVL7	-0.37	0.502471	0.949
EPT1	-0.37	0.502471	0.949
ESRRB	-0.37	0.50247	0.949
FCRL4	-0.37	0.50247	0.949
FMO4	-0.37	0.502471	0.949
FNDC3B	-0.37	0.523972	0.949

FOXS1	-0.37	0.523972	0.949
GGTLC1	-0.37	0.502471	0.949
GPR171	-0.37	0.502471	0.949
GPSM3	-0.37	0.523973	0.949
HAGHL	-0.37	0.502471	0.949
HIRIP3	-0.37	0.502471	0.949
HIST2H2AC	-0.37	0.502471	0.949
HLA-DPB1	-0.37	0.502471	0.949
JAG2	-0.37	0.523973	0.949
KIDINS220	-0.37	0.502471	0.949
KRT4	-0.37	0.502471	0.949
KRTAP4-2	-0.37	0.523972	0.949
LGALS16	-0.37	0.502471	0.949
LSM1	-0.37	0.50247	0.949
MAGEA8	-0.37	0.523973	0.949
MARK3	-0.37	0.523972	0.949
MRAS	-0.37	0.523973	0.949
MRPL27	-0.37	0.502471	0.949
MSTO1	-0.37	0.523973	0.949
MUS81	-0.37	0.523973	0.949
MYF5	-0.37	0.523973	0.949
MYO3B	-0.37	0.50247	0.949
MYPOP	-0.37	0.502471	0.949
NCAPH2	-0.37	0.50247	0.949
NDUFAF1	-0.37	0.50247	0.949
OR2L8	-0.37	0.50247	0.949
OR2T27	-0.37	0.50247	0.949
OR4K17	-0.37	0.502471	0.949
OR6N2	-0.37	0.50247	0.949
PACSIN1	-0.37	0.502471	0.949
PCDHA11	-0.37	0.502471	0.949
PGAM5	-0.37	0.50247	0.949
PHLDB1	-0.37	0.523973	0.949
PTER	-0.37	0.523972	0.949
PXMP2	-0.37	0.50247	0.949
RBM15B	-0.37	0.50247	0.949
RHBDF1	-0.37	0.50247	0.949
RMI1	-0.37	0.502471	0.949
RNF145	-0.37	0.502471	0.949
RNF187	-0.37	0.523973	0.949
RUSC1-AS1	-0.37	0.523972	0.949
SCFD2	-0.37	0.50247	0.949
SCGB1D4	-0.37	0.50247	0.949
SCNM1	-0.37	0.502471	0.949
SLC24A2	-0.37	0.523973	0.949
SLC2A14	-0.37	0.502471	0.949
SMARCC1	-0.37	0.523973	0.949

SORT1	-0.37	0.50247	0.949
SPC24	-0.37	0.630383	0.962
SRRD	-0.37	0.502471	0.949
ST6GAL1	-0.37	0.502471	0.949
TECPR2	-0.37	0.502471	0.949
THAP2	-0.37	0.50247	0.949
TM4SF5	-0.37	0.50247	0.949
TMEM109	-0.37	0.502471	0.949
TMEM222	-0.37	0.502471	0.949
TMEM229B	-0.37	0.502471	0.949
TMPRSS9	-0.37	0.502471	0.949
TMX3	-0.37	0.50247	0.949
TRAM1L1	-0.37	0.502471	0.949
TRAPPC1	-0.37	0.502471	0.949
TSN	-0.37	0.502471	0.949
UBE2I	-0.37	0.523973	0.949
WDHD1	-0.37	0.502471	0.949
WDR83	-0.37	0.502471	0.949
YARS	-0.37	0.523973	0.949
ZBTB7A	-0.37	0.502471	0.949
ZIM3	-0.37	0.50247	0.949
ZNF223	-0.37	0.50247	0.949
ZNF730	-0.37	0.523973	0.949
ACY1	-0.36	0.513719	0.949
ANO4	-0.36	0.513719	0.949
ATP6V0A2	-0.36	0.535	0.953
BGLAP	-0.36	0.535	0.953
BNC2	-0.36	0.513719	0.949
C10orf71	-0.36	0.513719	0.949
C11orf31	-0.36	0.513719	0.949
C1orf95	-0.36	0.513719	0.949
C4BPA	-0.36	0.51372	0.949
C7orf76	-0.36	0.513719	0.949
CCP110	-0.36	0.513719	0.949
CDKN2A	-0.36	0.535	0.953
CHRNE	-0.36	0.51372	0.949
CLDN12	-0.36	0.513719	0.949
CLDN22	-0.36	0.51372	0.949
CLN5	-0.36	0.513719	0.949
COL27A1	-0.36	0.513719	0.949
CRP	-0.36	0.513719	0.949
CST3	-0.36	0.513719	0.949
CUTC	-0.36	0.513719	0.949
CXorf67	-0.36	0.51372	0.949
CYP2C8	-0.36	0.513719	0.949
DCAF8L2	-0.36	0.513719	0.949
DIS3L2	-0.36	0.513719	0.949

DOLPP1	-0.36	0.513719	0.949
DYRK1A	-0.36	0.513719	0.949
EFCAB12	-0.36	0.513719	0.949
FAM110B	-0.36	0.513719	0.949
FAM189A2	-0.36	0.513719	0.949
FAM227A	-0.36	0.535001	0.953
FBXW7	-0.36	0.513719	0.949
FCAR	-0.36	0.513719	0.949
FETUB	-0.36	0.51372	0.949
FLNA	-0.36	0.513719	0.949
GPR6	-0.36	0.535	0.953
GPX6	-0.36	0.51372	0.949
HOXC6	-0.36	0.513719	0.949
HSPB2	-0.36	0.513719	0.949
IGSF5	-0.36	0.51372	0.949
IL27RA	-0.36	0.51372	0.949
IL6	-0.36	0.513719	0.949
KCNIP3	-0.36	0.513719	0.949
KIAA1841	-0.36	0.513719	0.949
KLHL7	-0.36	0.535	0.953
KLRB1	-0.36	0.513719	0.949
KRTAP25-1	-0.36	0.535	0.953
LAMTOR4	-0.36	0.513719	0.949
MAMDC4	-0.36	0.513719	0.949
MBLAC1	-0.36	0.51372	0.949
METTL20	-0.36	0.513719	0.949
MEX3C	-0.36	0.55798	0.957
MINPP1	-0.36	0.513719	0.949
NEFH	-0.36	0.513719	0.949
NEU3	-0.36	0.513719	0.949
NKX1-1	-0.36	0.51372	0.949
NUPL2	-0.36	0.513719	0.949
OPN1MW	-0.36	0.513719	0.949
OR1J1	-0.36	0.51372	0.949
OR52A5	-0.36	0.513719	0.949
OR5M8	-0.36	0.513719	0.949
OSCAR	-0.36	0.51372	0.949
PDLIM3	-0.36	0.513719	0.949
PDRG1	-0.36	0.513719	0.949
PKP3	-0.36	0.51372	0.949
PLEKHB1	-0.36	0.513719	0.949
PNLIPRP3	-0.36	0.513719	0.949
PNPLA1	-0.36	0.51372	0.949
PPP4R1	-0.36	0.535	0.953
PSD	-0.36	0.513719	0.949
PTGR2	-0.36	0.513719	0.949
QARS	-0.36	0.582435	0.957

RAB11FIP1	-0.36	0.535	0.953
RAD50	-0.36	0.513719	0.949
RADIL	-0.36	0.513719	0.949
RNASE9	-0.36	0.513719	0.949
RPS23	-0.36	0.513719	0.949
RUSC1	-0.36	0.513719	0.949
SNRPN	-0.36	0.535	0.953
SOCS6	-0.36	0.513719	0.949
SPATA31A6	-0.36	0.513719	0.949
SPATA9	-0.36	0.513719	0.949
SPEG	-0.36	0.513719	0.949
STX18	-0.36	0.513719	0.949
TBX22	-0.36	0.513719	0.949
TDRD6	-0.36	0.513719	0.949
TMEM14C	-0.36	0.513719	0.949
TMEM229A	-0.36	0.513719	0.949
TRNT1	-0.36	0.535	0.953
TXNRD3NB	-0.36	0.513719	0.949
UBQLN2	-0.36	0.513719	0.949
UBXN1	-0.36	0.535	0.953
VASH2	-0.36	0.51372	0.949
ZDHHC7	-0.36	0.513719	0.949
ZNF131	-0.36	0.513719	0.949
ZNF232	-0.36	0.513719	0.949
ZNF416	-0.36	0.51372	0.949
ZNF648	-0.36	0.513719	0.949
ZPBP2	-0.36	0.513719	0.949
ABR	-0.35	0.525142	0.949
AHCY	-0.35	0.525142	0.949
ALDH1A3	-0.35	0.525142	0.949
AMY2B	-0.35	0.525142	0.949
AQP7	-0.35	0.525142	0.949
ATG7	-0.35	0.525142	0.949
B3GAT2	-0.35	0.546066	0.955
BOD1L2	-0.35	0.525142	0.949
C12orf74	-0.35	0.525142	0.949
CAPN12	-0.35	0.525142	0.949
CCL26	-0.35	0.546066	0.955
CDK3	-0.35	0.525142	0.949
CENPH	-0.35	0.525142	0.949
CENPV	-0.35	0.546066	0.955
CEP170B	-0.35	0.525142	0.949
CHD2	-0.35	0.525142	0.949
CSK	-0.35	0.546065	0.955
CST9L	-0.35	0.525142	0.949
CXXC5	-0.35	0.525142	0.949
CYP21A2	-0.35	0.525142	0.949

EHBP1	-0.35	0.525142	0.949
EIF1B	-0.35	0.525142	0.949
EIF4E	-0.35	0.525142	0.949
EME2	-0.35	0.525142	0.949
F13A1	-0.35	0.546066	0.955
FAM175B	-0.35	0.546065	0.955
FAM181B	-0.35	0.525142	0.949
FAM217B	-0.35	0.546066	0.955
FAM53A	-0.35	0.525142	0.949
FAM71C	-0.35	0.525142	0.949
FLG	-0.35	0.525142	0.949
FUT6	-0.35	0.525142	0.949
GADD45A	-0.35	0.525141	0.949
GAL3ST3	-0.35	0.525142	0.949
GATSL1	-0.35	0.546066	0.955
GLI1	-0.35	0.525141	0.949
GYS1	-0.35	0.525142	0.949
HMGB4	-0.35	0.525142	0.949
HOXC5	-0.35	0.525142	0.949
ICOS	-0.35	0.525142	0.949
IL15RA	-0.35	0.525142	0.949
IQCF5	-0.35	0.546066	0.955
ITGB1BP2	-0.35	0.525142	0.949
KRR1	-0.35	0.546066	0.955
L3MBTL4	-0.35	0.525142	0.949
LAMA1	-0.35	0.525142	0.949
LCE5A	-0.35	0.525142	0.949
LRGUK	-0.35	0.525142	0.949
LRRC7	-0.35	0.525141	0.949
MAGEB16	-0.35	0.525142	0.949
MAGIX	-0.35	0.525142	0.949
MAPRE2	-0.35	0.525141	0.949
MPZL2	-0.35	0.525142	0.949
MRPS10	-0.35	0.525142	0.949
MT3	-0.35	0.525142	0.949
MTMR14	-0.35	0.525142	0.949
MYH2	-0.35	0.546066	0.955
MYOZ1	-0.35	0.546066	0.955
NBPF10	-0.35	0.546066	0.955
NFAT5	-0.35	0.525142	0.949
NRSN1	-0.35	0.525142	0.949
NSMCE2	-0.35	0.525142	0.949
NUDCD2	-0.35	0.525141	0.949
OR51I2	-0.35	0.525142	0.949
PAGE1	-0.35	0.525142	0.949
PARK2	-0.35	0.525141	0.949
PDZD9	-0.35	0.525142	0.949

PHB	-0.35	0.59258	0.957
PLSCR3	-0.35	0.546066	0.955
POLR3A	-0.35	0.525142	0.949
POTEJ	-0.35	0.546066	0.955
POU3F4	-0.35	0.525142	0.949
PPCDC	-0.35	0.525142	0.949
PPIF	-0.35	0.525142	0.949
PPP1CB	-0.35	0.568695	0.957
PRKG2	-0.35	0.546066	0.955
PRL	-0.35	0.546066	0.955
RB1	-0.35	0.525142	0.949
RB1CC1	-0.35	0.546066	0.955
RPF2	-0.35	0.525142	0.949
SAMD7	-0.35	0.525142	0.949
SBSPON	-0.35	0.525141	0.949
SDCCAG3	-0.35	0.525142	0.949
SLC26A4	-0.35	0.525142	0.949
SLC30A3	-0.35	0.525142	0.949
SLC32A1	-0.35	0.525141	0.949
SNRPC	-0.35	0.568695	0.957
SOX6	-0.35	0.546066	0.955
SOX9	-0.35	0.525142	0.949
SPATA24	-0.35	0.525142	0.949
SPDEF	-0.35	0.525142	0.949
SPRY4	-0.35	0.525141	0.949
STON2	-0.35	0.525142	0.949
SUMF2	-0.35	0.525142	0.949
TAF15	-0.35	0.568695	0.957
TAL2	-0.35	0.525142	0.949
TGIF2LY	-0.35	0.525142	0.949
THAP10	-0.35	0.525141	0.949
THRSP	-0.35	0.525142	0.949
TM9SF4	-0.35	0.525141	0.949
TMCC1	-0.35	0.525142	0.949
TMEM126A	-0.35	0.525142	0.949
TMEM165	-0.35	0.525142	0.949
TMEM169	-0.35	0.525142	0.949
TMEM68	-0.35	0.525142	0.949
TMEM70	-0.35	0.525142	0.949
TPPP3	-0.35	0.546066	0.955
TRIM69	-0.35	0.525141	0.949
TTLL6	-0.35	0.525142	0.949
TVP23B	-0.35	0.525142	0.949
VKORC1	-0.35	0.525142	0.949
VOPP1	-0.35	0.525142	0.949
WDR47	-0.35	0.525142	0.949
XRCC4	-0.35	0.525142	0.949

ZNF419	-0.35	0.525142	0.949
ZNF621	-0.35	0.525141	0.949
ZNF669	-0.35	0.525142	0.949
ZXDB	-0.35	0.525142	0.949
ADAM28	-0.34	0.53671	0.953
ANKEF1	-0.34	0.53671	0.953
ARHGAP1	-0.34	0.55721	0.957
ATP1A4	-0.34	0.53671	0.953
AUH	-0.34	0.536709	0.953
C10orf11	-0.34	0.53671	0.953
C14orf37	-0.34	0.53671	0.953
C15orf27	-0.34	0.536709	0.953
C1orf233	-0.34	0.53671	0.953
C5orf45	-0.34	0.557211	0.957
CCDC87	-0.34	0.536709	0.953
CER1	-0.34	0.53671	0.953
CTSF	-0.34	0.53671	0.953
CTTNBP2	-0.34	0.536709	0.953
DCAF6	-0.34	0.53671	0.953
DYSF	-0.34	0.53671	0.953
E2F4	-0.34	0.53671	0.953
EFNA3	-0.34	0.536709	0.953
EHD3	-0.34	0.536709	0.953
ERVMER34-	-0.34	0.536709	0.953
ESR1	-0.34	0.536709	0.953
FAM124B	-0.34	0.53671	0.953
FMOD	-0.34	0.53671	0.953
GFRA1	-0.34	0.536709	0.953
GNAT1	-0.34	0.536709	0.953
GNB5	-0.34	0.53671	0.953
GPC4	-0.34	0.536709	0.953
HMCN2	-0.34	0.536709	0.953
JAK2	-0.34	0.536709	0.953
JDP2	-0.34	0.53671	0.953
KBTBD12	-0.34	0.53671	0.953
LINS	-0.34	0.536709	0.953
LIPK	-0.34	0.536709	0.953
LRRC46	-0.34	0.536709	0.953
MAGED4B	-0.34	0.53671	0.953
METTL2A	-0.34	0.536709	0.953
MICAL2	-0.34	0.536709	0.953
MYEOV2	-0.34	0.536709	0.953
NCOA2	-0.34	0.536709	0.953
NSL1	-0.34	0.53671	0.953
PARP4	-0.34	0.536709	0.953
PGA3	-0.34	0.536709	0.953
PHRF1	-0.34	0.53671	0.953

PLA2G10	-0.34	0.536709	0.953
PRC1	-0.34	0.536709	0.953
PSMB9	-0.34	0.536709	0.953
RPIA	-0.34	0.536709	0.953
SCGB3A1	-0.34	0.536709	0.953
SESTD1	-0.34	0.536709	0.953
SIX6	-0.34	0.536709	0.953
SLC22A12	-0.34	0.536709	0.953
SLC2A3	-0.34	0.53671	0.953
SLC35C2	-0.34	0.536709	0.953
SLC35F2	-0.34	0.53671	0.953
SLC38A5	-0.34	0.536709	0.953
SLC39A7	-0.34	0.55721	0.957
SMARCA2	-0.34	0.536709	0.953
SPCS1	-0.34	0.579388	0.957
SPPL2C	-0.34	0.53671	0.953
SRF	-0.34	0.536709	0.953
STARD10	-0.34	0.536709	0.953
SULT1A2	-0.34	0.53671	0.953
SURF2	-0.34	0.55721	0.957
SUV39H1	-0.34	0.53671	0.953
TM7SF3	-0.34	0.536709	0.953
TMEM107	-0.34	0.53671	0.953
TMEM19	-0.34	0.53671	0.953
TRIM59	-0.34	0.536709	0.953
TSPY2	-0.34	0.579388	0.957
TYW1	-0.34	0.53671	0.953
UGT8	-0.34	0.536709	0.953
USP51	-0.34	0.579388	0.957
VIP	-0.34	0.53671	0.953
VMAC	-0.34	0.53671	0.953
VPS4A	-0.34	0.536709	0.953
WSCD1	-0.34	0.536709	0.953
ZNF514	-0.34	0.536709	0.953
ZNF582	-0.34	0.536709	0.953
ZNF626	-0.34	0.53671	0.953
ZNF71	-0.34	0.536709	0.953
ZNF79	-0.34	0.53671	0.953
ACTR1B	-0.33	0.548343	0.955
ADCK2	-0.33	0.548343	0.955
AEBP1	-0.33	0.548344	0.955
ALPK1	-0.33	0.548343	0.955
ARHGAP29	-0.33	0.548343	0.955
ASAP3	-0.33	0.548343	0.955
ASTN2	-0.33	0.548343	0.955
B3GALT1	-0.33	0.548343	0.955
BCCIP	-0.33	0.568521	0.957

BCL11B	-0.33	0.548343	0.955
BTN3A1	-0.33	0.548343	0.955
C15orf53	-0.33	0.548344	0.955
C17orf58	-0.33	0.548344	0.955
C20orf112	-0.33	0.568521	0.957
C3orf70	-0.33	0.568521	0.957
C4orf3	-0.33	0.548343	0.955
C9orf169	-0.33	0.548344	0.955
CARD8	-0.33	0.548343	0.955
CCR7	-0.33	0.548343	0.955
CKAP2L	-0.33	0.548344	0.955
CPNE7	-0.33	0.548343	0.955
CST8	-0.33	0.548344	0.955
CT45A4	-0.33	0.548343	0.955
CTAGE15	-0.33	0.548344	0.955
CYBA	-0.33	0.568521	0.957
DBR1	-0.33	0.59014	0.957
DCAF12L2	-0.33	0.548344	0.955
DDX39A	-0.33	0.548343	0.955
DSPP	-0.33	0.548343	0.955
FAM216A	-0.33	0.548343	0.955
FAM76B	-0.33	0.548344	0.955
FLRT2	-0.33	0.568521	0.957
FSTL3	-0.33	0.568521	0.957
GAS2L1	-0.33	0.568521	0.957
GGCX	-0.33	0.548344	0.955
GHSR	-0.33	0.548343	0.955
GOLGB1	-0.33	0.548343	0.955
HIST1H2BH	-0.33	0.568521	0.957
HTR2C	-0.33	0.548343	0.955
IFLTD1	-0.33	0.548343	0.955
KDM2B	-0.33	0.59014	0.957
KL	-0.33	0.568521	0.957
KRTAP20-2	-0.33	0.548344	0.955
KRTAP8-1	-0.33	0.548343	0.955
LG MN	-0.33	0.548343	0.955
LOC389602	-0.33	0.548344	0.955
MAGED4	-0.33	0.548343	0.955
MAST2	-0.33	0.548343	0.955
MEGF6	-0.33	0.548343	0.955
MFGE8	-0.33	0.568521	0.957
MPC1	-0.33	0.548344	0.955
MTFR1	-0.33	0.548343	0.955
NEUROD2	-0.33	0.548344	0.955
NMNAT1	-0.33	0.548343	0.955
OGDHL	-0.33	0.548344	0.955
OR2T29	-0.33	0.548344	0.955

OR4M1	-0.33	0.548344	0.955
PAPD5	-0.33	0.548343	0.955
PCDHB1	-0.33	0.548343	0.955
PDE5A	-0.33	0.548343	0.955
PGAP1	-0.33	0.548343	0.955
PIGZ	-0.33	0.548343	0.955
PKN1	-0.33	0.548344	0.955
PLG	-0.33	0.548344	0.955
PON3	-0.33	0.548344	0.955
PRICKLE1	-0.33	0.548344	0.955
PROKR2	-0.33	0.568521	0.957
RAD51B	-0.33	0.568521	0.957
REEP5	-0.33	0.548343	0.955
RP9	-0.33	0.548344	0.955
SBK1	-0.33	0.568521	0.957
SCT	-0.33	0.548344	0.955
SELENBP1	-0.33	0.548344	0.955
SLAMF9	-0.33	0.548344	0.955
SLC4A9	-0.33	0.548343	0.955
SLC9A5	-0.33	0.548344	0.955
SPATA31C2	-0.33	0.548343	0.955
SUMO1	-0.33	0.613216	0.961
SYT5	-0.33	0.548344	0.955
TAGLN2	-0.33	0.548343	0.955
TAS2R1	-0.33	0.548344	0.955
TBCA	-0.33	0.548343	0.955
TEX28	-0.33	0.548344	0.955
TEX37	-0.33	0.548344	0.955
TLK2	-0.33	0.548344	0.955
TNFAIP6	-0.33	0.548343	0.955
UCP3	-0.33	0.548343	0.955
VAMP7	-0.33	0.548343	0.955
WBP2NL	-0.33	0.548344	0.955
WDR13	-0.33	0.548343	0.955
ZBED4	-0.33	0.568521	0.957
ZBTB7B	-0.33	0.59014	0.957
ZFP42	-0.33	0.548343	0.955
ZFR	-0.33	0.59014	0.957
ZKSCAN8	-0.33	0.548344	0.955
ZNF479	-0.33	0.548343	0.955
ZNF692	-0.33	0.548343	0.955
ZNF729	-0.33	0.548343	0.955
ABHD13	-0.32	0.560159	0.957
AIM1L	-0.32	0.56016	0.957
ANGPT4	-0.32	0.560159	0.957
ANKMY2	-0.32	0.560159	0.957
ANKRD13D	-0.32	0.560159	0.957

ARHGEF9	-0.32	0.56016	0.957
ARRB1	-0.32	0.56016	0.957
ATP11B	-0.32	0.56016	0.957
ATP13A4	-0.32	0.560159	0.957
BAI2	-0.32	0.579871	0.957
BCL6	-0.32	0.560159	0.957
BORA	-0.32	0.579871	0.957
BPIFA3	-0.32	0.56016	0.957
C1orf101	-0.32	0.56016	0.957
C1orf50	-0.32	0.56016	0.957
C9orf117	-0.32	0.56016	0.957
CAP1	-0.32	0.56016	0.957
CAPSL	-0.32	0.56016	0.957
CASR	-0.32	0.56016	0.957
CCDC109B	-0.32	0.56016	0.957
CCND3	-0.32	0.623746	0.962
CDRT15	-0.32	0.560159	0.957
COTL1	-0.32	0.56016	0.957
CXorf57	-0.32	0.560159	0.957
DDOST	-0.32	0.56016	0.957
DDX39B	-0.32	0.56016	0.957
DDX42	-0.32	0.56016	0.957
DLEC1	-0.32	0.579871	0.957
DNM3	-0.32	0.560159	0.957
EBLN2	-0.32	0.56016	0.957
ECSIT	-0.32	0.560159	0.957
EPS8L2	-0.32	0.560159	0.957
ERBB2	-0.32	0.560159	0.957
ESF1	-0.32	0.579871	0.957
ETFDH	-0.32	0.560159	0.957
FAM101A	-0.32	0.56016	0.957
FAM69B	-0.32	0.560159	0.957
FBLIM1	-0.32	0.560159	0.957
FBXO3	-0.32	0.579871	0.957
FBXW2	-0.32	0.560159	0.957
FLCN	-0.32	0.579871	0.957
FOXG1	-0.32	0.601098	0.96
FRA10AC1	-0.32	0.56016	0.957
GAGE12H	-0.32	0.623747	0.962
GFRA2	-0.32	0.579872	0.957
GOLGA6A	-0.32	0.560159	0.957
GPC5	-0.32	0.560159	0.957
GPR113	-0.32	0.56016	0.957
GPR18	-0.32	0.56016	0.957
GPRIN1	-0.32	0.56016	0.957
GSTT2B	-0.32	0.560159	0.957
GUCA1A	-0.32	0.560159	0.957

GUCY2C	-0.32	0.560159	0.957
H3F3C	-0.32	0.56016	0.957
HCFC1	-0.32	0.623746	0.962
HID1	-0.32	0.560159	0.957
HOXC10	-0.32	0.601098	0.96
HSPA4L	-0.32	0.56016	0.957
IFT80	-0.32	0.56016	0.957
IKZF4	-0.32	0.56016	0.957
IL22RA2	-0.32	0.56016	0.957
ITGA7	-0.32	0.560159	0.957
ITPRIP	-0.32	0.579871	0.957
KCNN4	-0.32	0.579871	0.957
KLF9	-0.32	0.579872	0.957
KLK12	-0.32	0.56016	0.957
KRT72	-0.32	0.56016	0.957
KRTAP1-1	-0.32	0.579871	0.957
LAS1L	-0.32	0.601098	0.96
LCA5L	-0.32	0.579871	0.957
LFNG	-0.32	0.56016	0.957
LRRC15	-0.32	0.56016	0.957
LRRC59	-0.32	0.579872	0.957
LSR	-0.32	0.579871	0.957
MAMSTR	-0.32	0.560159	0.957
MBD3L3	-0.32	0.560159	0.957
MKNK2	-0.32	0.560159	0.957
MPP2	-0.32	0.56016	0.957
MTHFD1	-0.32	0.601098	0.96
MUC3A	-0.32	0.56016	0.957
MUC4	-0.32	0.56016	0.957
NIPAL1	-0.32	0.560159	0.957
NIT2	-0.32	0.56016	0.957
OSTM1	-0.32	0.56016	0.957
PANK2	-0.32	0.560159	0.957
PKD2	-0.32	0.579871	0.957
PLEKHF2	-0.32	0.579871	0.957
PMCH	-0.32	0.560159	0.957
PPP3R1	-0.32	0.56016	0.957
PPT2	-0.32	0.560159	0.957
PROK2	-0.32	0.579871	0.957
PSMG4	-0.32	0.560159	0.957
QRFPR	-0.32	0.560159	0.957
RIIAD1	-0.32	0.560159	0.957
RNF111	-0.32	0.56016	0.957
RNF34	-0.32	0.56016	0.957
RNLS	-0.32	0.56016	0.957
SERPINA3	-0.32	0.560159	0.957
SIK2	-0.32	0.579871	0.957

SLC22A18A1	-0.32	0.560159	0.957
SOGA1	-0.32	0.56016	0.957
SPANXB1	-0.32	0.560159	0.957
SPG7	-0.32	0.56016	0.957
SS18L1	-0.32	0.56016	0.957
SSR1	-0.32	0.560159	0.957
STPG2	-0.32	0.560159	0.957
STX5	-0.32	0.601098	0.96
TATDN2	-0.32	0.579872	0.957
TDRD10	-0.32	0.560159	0.957
TEX15	-0.32	0.56016	0.957
TFF3	-0.32	0.579871	0.957
TIGD6	-0.32	0.56016	0.957
TMEM178A	-0.32	0.56016	0.957
TMEM179	-0.32	0.560159	0.957
TPK1	-0.32	0.56016	0.957
UBE2D4	-0.32	0.560159	0.957
UPRT	-0.32	0.560159	0.957
ZIC2	-0.32	0.579871	0.957
ZNF33B	-0.32	0.56016	0.957
ZNF600	-0.32	0.560159	0.957
ZNF93	-0.32	0.56016	0.957
AADAT	-0.31	0.572016	0.957
ABHD6	-0.31	0.572016	0.957
ANAPC10	-0.31	0.572016	0.957
ANLN	-0.31	0.572016	0.957
APOD	-0.31	0.572015	0.957
ARHGAP23	-0.31	0.572016	0.957
ATP6V1B1	-0.31	0.572016	0.957
BMPR2	-0.31	0.572016	0.957
BRI3	-0.31	0.591468	0.957
BTN2A1	-0.31	0.591467	0.957
C11orf54	-0.31	0.572016	0.957
C1RL	-0.31	0.572015	0.957
C8orf37	-0.31	0.572015	0.957
CCDC65	-0.31	0.572016	0.957
CD14	-0.31	0.572016	0.957
CDK4	-0.31	0.572016	0.957
CHRM2	-0.31	0.572015	0.957
CLDN17	-0.31	0.572016	0.957
CRAT	-0.31	0.572016	0.957
CRCP	-0.31	0.591467	0.957
CT45A3	-0.31	0.572015	0.957
CTSZ	-0.31	0.572016	0.957
CYP2J2	-0.31	0.572016	0.957
DAAM2	-0.31	0.572016	0.957
DEFB134	-0.31	0.572015	0.957

DHDH	-0.31	0.572015	0.957
DLG5	-0.31	0.572016	0.957
DNAH17	-0.31	0.591467	0.957
DSE	-0.31	0.591468	0.957
E2F1	-0.31	0.591468	0.957
ECT2L	-0.31	0.572016	0.957
ELF3	-0.31	0.572015	0.957
EPHA6	-0.31	0.572016	0.957
EPHA8	-0.31	0.572016	0.957
ERC1	-0.31	0.591467	0.957
ERICH1	-0.31	0.572016	0.957
ERLIN1	-0.31	0.572016	0.957
EXD2	-0.31	0.572016	0.957
FAM198B	-0.31	0.572016	0.957
FAM205A	-0.31	0.572016	0.957
FAM211A	-0.31	0.572016	0.957
FUBP3	-0.31	0.572015	0.957
GBP7	-0.31	0.572015	0.957
GBX2	-0.31	0.591467	0.957
GLTSCR1	-0.31	0.591468	0.957
GPR84	-0.31	0.591467	0.957
GTF2F2	-0.31	0.572016	0.957
GTPBP4	-0.31	0.591468	0.957
HAS3	-0.31	0.572016	0.957
HMHA1	-0.31	0.591467	0.957
HSD17B13	-0.31	0.572016	0.957
IDI2	-0.31	0.591467	0.957
IFI27L2	-0.31	0.572016	0.957
IGFALS	-0.31	0.572016	0.957
IGSF8	-0.31	0.572016	0.957
JAM3	-0.31	0.572016	0.957
KCNJ11	-0.31	0.572016	0.957
KIAA0355	-0.31	0.572016	0.957
LDB3	-0.31	0.572016	0.957
LDLRAD1	-0.31	0.572016	0.957
LGSN	-0.31	0.572016	0.957
MAFK	-0.31	0.591467	0.957
MBD1	-0.31	0.612099	0.961
MFSD2A	-0.31	0.572016	0.957
MLF2	-0.31	0.572016	0.957
MRFAP1	-0.31	0.572016	0.957
MRPL42	-0.31	0.572016	0.957
MSC	-0.31	0.572016	0.957
NDUFAF4	-0.31	0.572016	0.957
NLRC4	-0.31	0.572016	0.957
NOMO1	-0.31	0.591468	0.957
NPIPA2	-0.31	0.658247	0.967

NRSN2	-0.31	0.572015	0.957
NTNG2	-0.31	0.572016	0.957
OAS3	-0.31	0.591468	0.957
PCDHA6	-0.31	0.572015	0.957
PCSK1N	-0.31	0.572015	0.957
PCSK5	-0.31	0.572015	0.957
PGBD4	-0.31	0.572016	0.957
PHTF2	-0.31	0.572015	0.957
PIAS4	-0.31	0.572016	0.957
PINX1	-0.31	0.572016	0.957
RALB	-0.31	0.572016	0.957
RALGPS2	-0.31	0.572016	0.957
RBM27	-0.31	0.591468	0.957
RBM39	-0.31	0.634367	0.963
REEP6	-0.31	0.572016	0.957
RNF38	-0.31	0.572016	0.957
RPS6KL1	-0.31	0.591467	0.957
SCN5A	-0.31	0.572016	0.957
SERTM1	-0.31	0.572016	0.957
SHB	-0.31	0.612099	0.961
SLC25A41	-0.31	0.572016	0.957
SLC4A1	-0.31	0.612099	0.961
SLC4A11	-0.31	0.572016	0.957
ST3GAL5	-0.31	0.572016	0.957
TACSTD2	-0.31	0.572016	0.957
TARS2	-0.31	0.572016	0.957
TBX20	-0.31	0.572016	0.957
TEAD3	-0.31	0.572016	0.957
TEKT4	-0.31	0.572016	0.957
TINAG	-0.31	0.572016	0.957
TMEM131	-0.31	0.591468	0.957
TMEM156	-0.31	0.572016	0.957
TMEM239	-0.31	0.591467	0.957
TPM4	-0.31	0.572016	0.957
TPT1	-0.31	0.572015	0.957
TRIM48	-0.31	0.572016	0.957
TRIM49B	-0.31	0.612099	0.961
UPK1B	-0.31	0.572016	0.957
USP38	-0.31	0.572015	0.957
UTF1	-0.31	0.591468	0.957
UTP15	-0.31	0.591467	0.957
VAMP2	-0.31	0.572016	0.957
VNN2	-0.31	0.572016	0.957
WTAP	-0.31	0.612099	0.961
XCL1	-0.31	0.572016	0.957
ZCCHC24	-0.31	0.572016	0.957
ZNF165	-0.31	0.572016	0.957

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ZNF335	-0.31	0.612099	0.961
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ADCY3	-0.3	0.623278	0.962
ADRBK2	-0.3	0.584027	0.957
API5	-0.3	0.584027	0.957
APLN	-0.3	0.584027	0.957
ARHGEF19	-0.3	0.584027	0.957
ARSE	-0.3	0.584027	0.957
ASB5	-0.3	0.584027	0.957
ASZ1	-0.3	0.584027	0.957
BHLHA9	-0.3	0.584027	0.957
C11orf24	-0.3	0.584027	0.957
C16orf71	-0.3	0.584027	0.957
C2orf73	-0.3	0.584027	0.957
C7orf49	-0.3	0.584027	0.957
CAV1	-0.3	0.584027	0.957
CCDC157	-0.3	0.584027	0.957
CD46	-0.3	0.584027	0.957
CDC123	-0.3	0.603061	0.96
CELA3A	-0.3	0.584027	0.957
CHCHD4	-0.3	0.584027	0.957
CLCN7	-0.3	0.584027	0.957
CLU	-0.3	0.584027	0.957
CNDP2	-0.3	0.584027	0.957
COX10	-0.3	0.603061	0.96
COX7C	-0.3	0.584027	0.957
DAOA	-0.3	0.584027	0.957
DCTPP1	-0.3	0.584027	0.957
DCUN1D4	-0.3	0.584026	0.957
DEFB124	-0.3	0.584027	0.957
DEGS1	-0.3	0.584027	0.957
DHFRL1	-0.3	0.584027	0.957
DHRS4L1	-0.3	0.644989	0.963
DKKL1	-0.3	0.584026	0.957
DNMT3B	-0.3	0.584027	0.957
DPCR1	-0.3	0.584027	0.957
EPHX2	-0.3	0.584026	0.957
FAM167B	-0.3	0.623277	0.962
FOXA3	-0.3	0.584027	0.957
FOXC1	-0.3	0.603061	0.96
FRAT1	-0.3	0.584027	0.957
GJC3	-0.3	0.584027	0.957
GNB2	-0.3	0.584027	0.957
GPR119	-0.3	0.584027	0.957
GPR45	-0.3	0.584026	0.957

GRIK1	-0.3	0.584027	0.957
GYG1	-0.3	0.584027	0.957
HAAO	-0.3	0.584027	0.957
HBS1L	-0.3	0.584027	0.957
HEG1	-0.3	0.623278	0.962
HSD11B2	-0.3	0.584027	0.957
HSPBP1	-0.3	0.584027	0.957
HTR3E	-0.3	0.584027	0.957
IFI44	-0.3	0.584026	0.957
IL10RB	-0.3	0.584027	0.957
ITLN2	-0.3	0.584027	0.957
KIAA0195	-0.3	0.584027	0.957
KIAA1984	-0.3	0.584027	0.957
KRT35	-0.3	0.603061	0.96
LAMB3	-0.3	0.584027	0.957
LANCL2	-0.3	0.623277	0.962
LRRC41	-0.3	0.584027	0.957
MIS18A	-0.3	0.584027	0.957
MROH7	-0.3	0.603061	0.96
MS4A6A	-0.3	0.584027	0.957
MYCBP	-0.3	0.584027	0.957
MYT1	-0.3	0.584027	0.957
NDFIP2	-0.3	0.584026	0.957
NDP	-0.3	0.584027	0.957
NECAP1	-0.3	0.584027	0.957
NFATC2IP	-0.3	0.584026	0.957
NUFIP1	-0.3	0.584026	0.957
OR11L1	-0.3	0.584026	0.957
OR1D2	-0.3	0.584027	0.957
OR51B4	-0.3	0.584027	0.957
PDLIM5	-0.3	0.584027	0.957
PELO	-0.3	0.603061	0.96
PGAP3	-0.3	0.584027	0.957
PGM5	-0.3	0.584027	0.957
PNMT	-0.3	0.584027	0.957
PPP1R21	-0.3	0.584027	0.957
PPP6R3	-0.3	0.603062	0.96
PRELID2	-0.3	0.584027	0.957
PSMB7	-0.3	0.603062	0.96
RAB20	-0.3	0.584027	0.957
RAB32	-0.3	0.584027	0.957
RAPGEF5	-0.3	0.584027	0.957
RGPD4	-0.3	0.603062	0.96
RNASE10	-0.3	0.584026	0.957
RNASET2	-0.3	0.584027	0.957
RND2	-0.3	0.584027	0.957
SH3RF2	-0.3	0.584027	0.957

SIRPB1	-0.3	0.584027	0.957
SLC25A30	-0.3	0.584027	0.957
SLC26A7	-0.3	0.584027	0.957
SLC38A11	-0.3	0.584026	0.957
SLC52A3	-0.3	0.584027	0.957
SOAT1	-0.3	0.584026	0.957
SRP72	-0.3	0.584026	0.957
ST8SIA5	-0.3	0.603061	0.96
STXBP4	-0.3	0.584026	0.957
TMEM175	-0.3	0.584027	0.957
TMEM262	-0.3	0.584027	0.957
TRAPPC6A	-0.3	0.584027	0.957
TRDN	-0.3	0.584027	0.957
TUSC2	-0.3	0.584027	0.957
UBE2E2	-0.3	0.584027	0.957
UBP1	-0.3	0.584027	0.957
AP4E1	-0.29	0.596204	0.957
ARHGAP9	-0.29	0.614758	0.961
ARL5A	-0.29	0.596205	0.957
ARMC7	-0.29	0.614758	0.961
ASAH2	-0.29	0.596204	0.957
ASB7	-0.29	0.596205	0.957
BIVM	-0.29	0.596205	0.957
C15orf59	-0.29	0.596205	0.957
C16orf70	-0.29	0.614758	0.961
C1orf131	-0.29	0.614758	0.961
C4orf51	-0.29	0.596205	0.957
CAPZB	-0.29	0.596205	0.957
CD2	-0.29	0.596204	0.957
CD226	-0.29	0.596204	0.957
CDKN2AIPN	-0.29	0.596204	0.957
CHMP2B	-0.29	0.596204	0.957
CLEC2L	-0.29	0.596204	0.957
CLRN3	-0.29	0.596204	0.957
CLSTN1	-0.29	0.596204	0.957
CPT1A	-0.29	0.596204	0.957
CXorf22	-0.29	0.596204	0.957
CYP2C18	-0.29	0.614758	0.961
DDX31	-0.29	0.596205	0.957
DEGS2	-0.29	0.596205	0.957
DEPDC5	-0.29	0.596205	0.957
DGKQ	-0.29	0.596205	0.957
DPPA3	-0.29	0.596205	0.957
E2F5	-0.29	0.596205	0.957
EFNA1	-0.29	0.596204	0.957
EIF1AX	-0.29	0.614758	0.961
ELMO3	-0.29	0.596204	0.957

EME1	-0.29	0.596204	0.957
ENPP2	-0.29	0.634525	0.963
FBN1	-0.29	0.614758	0.961
FEZF1	-0.29	0.596204	0.957
FGF12	-0.29	0.596204	0.957
FITM2	-0.29	0.596205	0.957
FKBP11	-0.29	0.596204	0.957
FKBP2	-0.29	0.614757	0.961
FRMD8	-0.29	0.596205	0.957
FZD3	-0.29	0.614758	0.961
GFER	-0.29	0.614758	0.961
GIGYF2	-0.29	0.634525	0.963
GIMAP4	-0.29	0.596204	0.957
GMNN	-0.29	0.596204	0.957
GPX8	-0.29	0.596204	0.957
GSK3A	-0.29	0.596205	0.957
GTF2H2	-0.29	0.596205	0.957
GUCY1A2	-0.29	0.596205	0.957
H2AFV	-0.29	0.596205	0.957
H3F3B	-0.29	0.614758	0.961
HGF	-0.29	0.614758	0.961
HTR3A	-0.29	0.596204	0.957
HYI	-0.29	0.596205	0.957
IGFBP7	-0.29	0.596204	0.957
IPP	-0.29	0.596205	0.957
IQSEC2	-0.29	0.596204	0.957
KIAA0907	-0.29	0.596204	0.957
KRTAP21-2	-0.29	0.596204	0.957
LCE2A	-0.29	0.596205	0.957
LOC147646	-0.29	0.596205	0.957
LOC650293	-0.29	0.634525	0.963
LRRC36	-0.29	0.596205	0.957
METTL13	-0.29	0.596205	0.957
MGAT3	-0.29	0.596205	0.957
MMADHC	-0.29	0.596204	0.957
MTCP1	-0.29	0.596204	0.957
MTDH	-0.29	0.596204	0.957
MYEOV	-0.29	0.614758	0.961
NEURL1B	-0.29	0.596204	0.957
NTF4	-0.29	0.614758	0.961
NUDT3	-0.29	0.596204	0.957
OARD1	-0.29	0.596205	0.957
OR14J1	-0.29	0.596205	0.957
OR3A1	-0.29	0.596205	0.957
OVCH2	-0.29	0.614757	0.961
P2RX4	-0.29	0.614757	0.961
PAGE2B	-0.29	0.596205	0.957

PCDHGB4	-0.29	0.614758	0.961
PDDC1	-0.29	0.596204	0.957
PDLIM7	-0.29	0.596204	0.957
PDSS1	-0.29	0.614757	0.961
PIGP	-0.29	0.596204	0.957
PNCK	-0.29	0.596204	0.957
POLR3C	-0.29	0.596205	0.957
POMT2	-0.29	0.614758	0.961
POP7	-0.29	0.596205	0.957
PPP2R3B	-0.29	0.596205	0.957
PRAMEF14	-0.29	0.596204	0.957
PRG2	-0.29	0.596204	0.957
PRPF31	-0.29	0.65563	0.967
PRPH2	-0.29	0.596205	0.957
PYGM	-0.29	0.596205	0.957
RECK	-0.29	0.596204	0.957
RPH3A	-0.29	0.596204	0.957
RPS6KA1	-0.29	0.596204	0.957
RPS6KA2	-0.29	0.596204	0.957
RUNX2	-0.29	0.634525	0.963
SAR1B	-0.29	0.596205	0.957
SLC22A16	-0.29	0.596205	0.957
SMR3B	-0.29	0.634525	0.963
SNAPC4	-0.29	0.614758	0.961
SPRR1B	-0.29	0.596204	0.957
STOML1	-0.29	0.596205	0.957
SUMO4	-0.29	0.596205	0.957
SYBU	-0.29	0.596204	0.957
TBX2	-0.29	0.596205	0.957
TCF20	-0.29	0.596204	0.957
TESPA1	-0.29	0.596205	0.957
THRAP3	-0.29	0.634525	0.963
TMEM159	-0.29	0.614758	0.961
TMEM203	-0.29	0.596204	0.957
TNFSF4	-0.29	0.596205	0.957
TRAF6	-0.29	0.596204	0.957
TRMT10B	-0.29	0.596204	0.957
TSHZ2	-0.29	0.614758	0.961
UBAP1L	-0.29	0.614757	0.961
UBL4A	-0.29	0.596205	0.957
USP50	-0.29	0.596204	0.957
VAMP3	-0.29	0.596204	0.957
VCAN	-0.29	0.596204	0.957
VHL	-0.29	0.596204	0.957
WDR25	-0.29	0.614758	0.961
XPA	-0.29	0.596204	0.957
ZNF518B	-0.29	0.596204	0.957

ZNF620	-0.29	0.596205	0.957
ABHD17C	-0.28	0.6266	0.962
ADRB2	-0.28	0.608465	0.96
APCDD1L	-0.28	0.608465	0.96
ATP5L2	-0.28	0.608465	0.96
BBS9	-0.28	0.608464	0.96
BRCA1	-0.28	0.6266	0.962
BST2	-0.28	0.608464	0.96
C12orf71	-0.28	0.6266	0.962
C16orf82	-0.28	0.645781	0.963
C6orf120	-0.28	0.608465	0.96
C7orf34	-0.28	0.608464	0.96
C9orf66	-0.28	0.608465	0.96
CALU	-0.28	0.608465	0.96
CD163L1	-0.28	0.608465	0.96
CDNF	-0.28	0.608465	0.96
CHIC2	-0.28	0.6266	0.962
CLDN23	-0.28	0.608465	0.96
CLVS1	-0.28	0.608465	0.96
CNST	-0.28	0.608465	0.96
COX7B2	-0.28	0.608464	0.96
CRABP1	-0.28	0.608465	0.96
CXCR6	-0.28	0.608465	0.96
DBNL	-0.28	0.608465	0.96
DENND6B	-0.28	0.608465	0.96
ELOVL4	-0.28	0.608465	0.96
ERMAP	-0.28	0.626599	0.962
FAM84A	-0.28	0.608465	0.96
FBXL2	-0.28	0.608465	0.96
FBXO7	-0.28	0.608465	0.96
GLIPR2	-0.28	0.608464	0.96
GSE1	-0.28	0.608465	0.96
GYP A	-0.28	0.608465	0.96
HAT1	-0.28	0.6266	0.962
HIGD1A	-0.28	0.608465	0.96
HIST1H1D	-0.28	0.608465	0.96
HMCN1	-0.28	0.608464	0.96
IGBP1	-0.28	0.645781	0.963
IGFLR1	-0.28	0.608465	0.96
IL17C	-0.28	0.608465	0.96
IL17D	-0.28	0.608465	0.96
IMPDH1	-0.28	0.608464	0.96
IRX6	-0.28	0.6266	0.962
KRT25	-0.28	0.608465	0.96
KRT76	-0.28	0.608465	0.96
LBX2	-0.28	0.6266	0.962
LMNB2	-0.28	0.608465	0.96

MAT1A	-0.28	0.608465	0.96
MC2R	-0.28	0.608465	0.96
MED1	-0.28	0.64578	0.963
MGP	-0.28	0.608464	0.96
MRAP	-0.28	0.608465	0.96
MRGPRF	-0.28	0.608465	0.96
MYO15A	-0.28	0.608465	0.96
NDUFS8	-0.28	0.608464	0.96
NELFE	-0.28	0.608465	0.96
NEUROD6	-0.28	0.6266	0.962
NHS	-0.28	0.608465	0.96
NKD1	-0.28	0.608465	0.96
OR111	-0.28	0.608465	0.96
OR2A2	-0.28	0.608465	0.96
OR2A7	-0.28	0.626599	0.962
OR2G6	-0.28	0.608464	0.96
P2RX6	-0.28	0.608465	0.96
PAQR5	-0.28	0.608465	0.96
PDX1	-0.28	0.608465	0.96
PECR	-0.28	0.608464	0.96
PID1	-0.28	0.608465	0.96
PKN3	-0.28	0.608465	0.96
PLCXD3	-0.28	0.608465	0.96
PRKCH	-0.28	0.608465	0.96
PRPSAP1	-0.28	0.608465	0.96
PTPN5	-0.28	0.608464	0.96
QTRT1	-0.28	0.608465	0.96
RAB11FIP5	-0.28	0.608465	0.96
RAB39B	-0.28	0.608465	0.96
RASL12	-0.28	0.608465	0.96
RNF123	-0.28	0.608465	0.96
SCX	-0.28	0.608465	0.96
SERPINB7	-0.28	0.608465	0.96
SGOL1	-0.28	0.608465	0.96
SH3BP5L	-0.28	0.608465	0.96
SLC36A1	-0.28	0.608465	0.96
SLC4A10	-0.28	0.608464	0.96
SPATA31D4	-0.28	0.608465	0.96
SPRTN	-0.28	0.6266	0.962
TAF9B	-0.28	0.608465	0.96
TFDP2	-0.28	0.6266	0.962
TGFB111	-0.28	0.608465	0.96
TLX2	-0.28	0.6266	0.962
TMEM100	-0.28	0.608465	0.96
TPRX1	-0.28	0.608465	0.96
TRIM21	-0.28	0.6266	0.962
TRIM34	-0.28	0.608465	0.96

TRIM44	-0.28	0.6266	0.962
TRPM2	-0.28	0.608465	0.96
UBE2QL1	-0.28	0.6266	0.962
UBXN2A	-0.28	0.626599	0.962
WDR54	-0.28	0.608464	0.96
ZC3HC1	-0.28	0.608464	0.96
ZNF182	-0.28	0.608465	0.96
ZNF383	-0.28	0.608465	0.96
ZNF581	-0.28	0.608465	0.96
ZNF618	-0.28	0.608465	0.96
ACSBG1	-0.27	0.620808	0.961
AKR7A2	-0.27	0.620808	0.961
ALOX5	-0.27	0.620808	0.961
ANKRD36C	-0.27	0.620808	0.961
APOBEC1	-0.27	0.620808	0.961
ARHGAP15	-0.27	0.620808	0.961
BABAM1	-0.27	0.620808	0.961
BBC3	-0.27	0.638509	0.963
BCAS2	-0.27	0.620808	0.961
C1QTNF3	-0.27	0.620808	0.961
C7orf43	-0.27	0.620808	0.961
CD200R1L	-0.27	0.620808	0.961
CDKL3	-0.27	0.620808	0.961
CH25H	-0.27	0.620808	0.961
CHRNA6	-0.27	0.620808	0.961
CMA1	-0.27	0.620808	0.961
CPA4	-0.27	0.620808	0.961
CRABP2	-0.27	0.620808	0.961
CRYBA1	-0.27	0.620808	0.961
DICER1	-0.27	0.638509	0.963
DMRTC1B	-0.27	0.620808	0.961
DYNC1I2	-0.27	0.620808	0.961
EVX2	-0.27	0.620808	0.961
FAM122C	-0.27	0.620808	0.961
FAM45A	-0.27	0.620808	0.961
FCGR1A	-0.27	0.620808	0.961
FRS2	-0.27	0.620808	0.961
GALNT14	-0.27	0.620808	0.961
GNAZ	-0.27	0.620808	0.961
GPR39	-0.27	0.638509	0.963
GPR64	-0.27	0.620808	0.961
GRIA2	-0.27	0.620808	0.961
HHLA3	-0.27	0.620808	0.961
HTR3C	-0.27	0.620808	0.961
ITGBL1	-0.27	0.620808	0.961
KCNJ5	-0.27	0.620808	0.961
LEPREL4	-0.27	0.620808	0.961

MELK	-0.27	0.620808	0.961
MN1	-0.27	0.620808	0.961
MOB3B	-0.27	0.620808	0.961
MS4A4A	-0.27	0.620808	0.961
MTX3	-0.27	0.620808	0.961
NFAM1	-0.27	0.620808	0.961
NINJ1	-0.27	0.620808	0.961
NLRC5	-0.27	0.638509	0.963
NPIPA3	-0.27	0.698758	0.97
NPIP3	-0.27	0.722785	0.97
OR10R2	-0.27	0.620808	0.961
OR1411	-0.27	0.620808	0.961
OR5212	-0.27	0.620808	0.961
OR56A1	-0.27	0.620808	0.961
OR5D14	-0.27	0.620808	0.961
ORM1	-0.27	0.638508	0.963
PCCB	-0.27	0.620808	0.961
PCDHGB6	-0.27	0.620808	0.961
PEX11G	-0.27	0.620808	0.961
PGA4	-0.27	0.620808	0.961
PNLIPRP1	-0.27	0.620808	0.961
PTPRC	-0.27	0.620808	0.961
PYROXD2	-0.27	0.620808	0.961
RAB24	-0.27	0.620808	0.961
RAP1B	-0.27	0.620808	0.961
RCHY1	-0.27	0.620808	0.961
RHBDD2	-0.27	0.620808	0.961
RPS10	-0.27	0.620808	0.961
SCARA3	-0.27	0.620808	0.961
SDR39U1	-0.27	0.620808	0.961
SETD7	-0.27	0.638508	0.963
SFN	-0.27	0.620808	0.961
SLC28A1	-0.27	0.620808	0.961
SLC5A4	-0.27	0.620808	0.961
SMG8	-0.27	0.638509	0.963
SPAM1	-0.27	0.620808	0.961
SPECC1	-0.27	0.620808	0.961
SRCAP	-0.27	0.620808	0.961
STX16	-0.27	0.620808	0.961
TAC1	-0.27	0.620808	0.961
TCAIM	-0.27	0.620808	0.961
TCF23	-0.27	0.620808	0.961
TEKT5	-0.27	0.620808	0.961
TLK1	-0.27	0.620808	0.961
TMED2	-0.27	0.620808	0.961
TTC3	-0.27	0.620808	0.961
TTLL7	-0.27	0.620808	0.961

UPP1	-0.27	0.620808	0.961
ZBTB45	-0.27	0.620808	0.961
ZFAND2A	-0.27	0.620808	0.961
ZFP30	-0.27	0.620808	0.961
ZNF33A	-0.27	0.620808	0.961
ZNF860	-0.27	0.620808	0.961
ACER1	-0.26	0.633307	0.962
AJUBA	-0.26	0.633307	0.962
AKR1A1	-0.26	0.633308	0.962
ALS2CR12	-0.26	0.650534	0.967
AMICA1	-0.26	0.633308	0.962
APMAP	-0.26	0.633307	0.962
ATG16L1	-0.26	0.633308	0.962
ATRNL1	-0.26	0.633308	0.962
AXL	-0.26	0.633308	0.962
BEND4	-0.26	0.633307	0.962
BFAR	-0.26	0.633307	0.962
BTNL2	-0.26	0.633307	0.962
C16orf90	-0.26	0.650534	0.967
CADM1	-0.26	0.633308	0.962
CALB2	-0.26	0.633308	0.962
CCDC50	-0.26	0.633307	0.962
CCL25	-0.26	0.633307	0.962
CPAMD8	-0.26	0.633307	0.962
CT45A1	-0.26	0.633308	0.962
CYP51A1	-0.26	0.633307	0.962
DAGLA	-0.26	0.650534	0.967
DALRD3	-0.26	0.633308	0.962
DCDC2C	-0.26	0.633307	0.962
DCUN1D2	-0.26	0.633307	0.962
DFNB31	-0.26	0.633308	0.962
DMRTC1	-0.26	0.633307	0.962
EDDM3A	-0.26	0.633307	0.962
EFHD2	-0.26	0.650534	0.967
EXOSC4	-0.26	0.650534	0.967
FAM63B	-0.26	0.650534	0.967
GABRA2	-0.26	0.633308	0.962
GCDH	-0.26	0.633308	0.962
GPR114	-0.26	0.633307	0.962
GPR22	-0.26	0.633308	0.962
GPSM1	-0.26	0.633307	0.962
GRM5	-0.26	0.633308	0.962
HADHA	-0.26	0.633308	0.962
HIST1H2BG	-0.26	0.650534	0.967
HLA-E	-0.26	0.633308	0.962
HS3ST3A1	-0.26	0.633308	0.962
IFNW1	-0.26	0.633308	0.962

IGFBP2	-0.26	0.633308	0.962
IL10RA	-0.26	0.633307	0.962
INSR	-0.26	0.633308	0.962
KCNT2	-0.26	0.633307	0.962
KLHL36	-0.26	0.633307	0.962
KLRG1	-0.26	0.633307	0.962
KRTAP29-1	-0.26	0.650534	0.967
LNP1	-0.26	0.668652	0.97
LRRIQ1	-0.26	0.633308	0.962
MAP3K11	-0.26	0.633307	0.962
MATN2	-0.26	0.633308	0.962
MPP6	-0.26	0.633308	0.962
NCALD	-0.26	0.633307	0.962
NECAB2	-0.26	0.633308	0.962
NSUN6	-0.26	0.633307	0.962
NUP43	-0.26	0.633308	0.962
OR10T2	-0.26	0.633307	0.962
OR1E2	-0.26	0.633307	0.962
OR56A3	-0.26	0.633308	0.962
OR6C3	-0.26	0.633307	0.962
PDE9A	-0.26	0.650534	0.967
PIP5K1A	-0.26	0.633308	0.962
PIPOX	-0.26	0.633308	0.962
POLR3D	-0.26	0.633308	0.962
PPP1R8	-0.26	0.650534	0.967
PPP1R9B	-0.26	0.633307	0.962
PRAMEF13	-0.26	0.633307	0.962
PSMF1	-0.26	0.633308	0.962
PTPN6	-0.26	0.633308	0.962
RAB27B	-0.26	0.633308	0.962
RAB28	-0.26	0.633307	0.962
RABL2A	-0.26	0.633307	0.962
RFPL2	-0.26	0.633307	0.962
RNH1	-0.26	0.633307	0.962
RPP25L	-0.26	0.633308	0.962
S100A10	-0.26	0.633308	0.962
SDK1	-0.26	0.633308	0.962
SELV	-0.26	0.633308	0.962
SEPT3	-0.26	0.633307	0.962
SERF1A	-0.26	0.650534	0.967
SERF1B	-0.26	0.650534	0.967
SERPINB10	-0.26	0.633308	0.962
SETD5	-0.26	0.633307	0.962
SLC25A51	-0.26	0.633308	0.962
SLC35A1	-0.26	0.633308	0.962
SPTLC1	-0.26	0.633308	0.962
SRA1	-0.26	0.633307	0.962

SRFBP1	-0.26	0.633308	0.962
SSX2IP	-0.26	0.650534	0.967
STX6	-0.26	0.633308	0.962
SYT8	-0.26	0.668653	0.97
TBX21	-0.26	0.633308	0.962
TCEB3	-0.26	0.633308	0.962
TJP3	-0.26	0.633307	0.962
TRMT12	-0.26	0.633308	0.962
UPK3A	-0.26	0.650534	0.967
WBSCR27	-0.26	0.633308	0.962
WNT5B	-0.26	0.633307	0.962
YEATS4	-0.26	0.633307	0.962
ZCCHC12	-0.26	0.633307	0.962
ZNF507	-0.26	0.633307	0.962
ZNF565	-0.26	0.633308	0.962
ZPBP	-0.26	0.650534	0.967
ZRANB3	-0.26	0.633308	0.962
ABCC9	-0.25	0.645966	0.963
ACAD11	-0.25	0.645965	0.963
ADAM11	-0.25	0.645965	0.963
ADO	-0.25	0.645965	0.963
AGA	-0.25	0.645966	0.963
ANP32B	-0.25	0.645966	0.963
APCDD1	-0.25	0.645965	0.963
ARID1B	-0.25	0.645965	0.963
ASF1B	-0.25	0.645965	0.963
ATP5J2-PTC	-0.25	0.662679	0.97
ATP8A1	-0.25	0.645965	0.963
BCAP31	-0.25	0.645965	0.963
BCL10	-0.25	0.645966	0.963
BDNF	-0.25	0.645966	0.963
BMP2	-0.25	0.645965	0.963
BMPR1B	-0.25	0.645965	0.963
C16orf11	-0.25	0.645966	0.963
C1GALT1	-0.25	0.645965	0.963
C3orf52	-0.25	0.645966	0.963
C4orf47	-0.25	0.645965	0.963
CCL20	-0.25	0.645965	0.963
CDCP1	-0.25	0.645965	0.963
CHAF1B	-0.25	0.645966	0.963
CHSY3	-0.25	0.645965	0.963
CSGALNAC	-0.25	0.66268	0.97
DDB2	-0.25	0.645965	0.963
DGUOK	-0.25	0.645965	0.963
DPYSL5	-0.25	0.66268	0.97
FAM65C	-0.25	0.645965	0.963
FKBP1B	-0.25	0.645965	0.963

GABPB2	-0.25	0.645965	0.963
GATAD2A	-0.25	0.645965	0.963
GDF3	-0.25	0.645965	0.963
GGTLC2	-0.25	0.645965	0.963
GPR174	-0.25	0.645965	0.963
GTPBP2	-0.25	0.645965	0.963
HDAC9	-0.25	0.645965	0.963
HOXA7	-0.25	0.645966	0.963
IGDCC3	-0.25	0.645965	0.963
IPO7	-0.25	0.645965	0.963
KCTD10	-0.25	0.645965	0.963
KCTD12	-0.25	0.645965	0.963
KDM4E	-0.25	0.645965	0.963
KIAA1147	-0.25	0.645965	0.963
KIF20A	-0.25	0.645966	0.963
KIFC3	-0.25	0.645965	0.963
KRT14	-0.25	0.645965	0.963
KRT2	-0.25	0.66268	0.97
LAIR1	-0.25	0.699277	0.97
LAMB4	-0.25	0.645965	0.963
LARS2	-0.25	0.66268	0.97
LOXL3	-0.25	0.645966	0.963
LPHN1	-0.25	0.645965	0.963
LRRC14B	-0.25	0.645965	0.963
LRRC52	-0.25	0.645965	0.963
LY6G5B	-0.25	0.645965	0.963
MAVS	-0.25	0.645965	0.963
MRPL34	-0.25	0.680101	0.97
MRPL36	-0.25	0.645965	0.963
MSRB2	-0.25	0.645965	0.963
MSTN	-0.25	0.645965	0.963
MTMR12	-0.25	0.645965	0.963
MTMR7	-0.25	0.645966	0.963
NAPEPLD	-0.25	0.645965	0.963
NAT9	-0.25	0.645965	0.963
NETO1	-0.25	0.645965	0.963
NOP58	-0.25	0.66268	0.97
NUDCD1	-0.25	0.645965	0.963
OLFM2	-0.25	0.645965	0.963
PDHA2	-0.25	0.645965	0.963
PGBD3	-0.25	0.645965	0.963
PGLS	-0.25	0.645966	0.963
PLA2G6	-0.25	0.645965	0.963
PNOC	-0.25	0.645966	0.963
POPDC3	-0.25	0.645965	0.963
PPP1R1B	-0.25	0.645966	0.963
PRAMEF12	-0.25	0.645965	0.963

PRAMEF22	-0.25	0.645965	0.963
PTCD1	-0.25	0.662679	0.97
PXK	-0.25	0.645965	0.963
RASSF7	-0.25	0.645965	0.963
RNF13	-0.25	0.645965	0.963
RPL3	-0.25	0.645965	0.963
RPRM	-0.25	0.645965	0.963
SACM1L	-0.25	0.645965	0.963
SCD5	-0.25	0.645965	0.963
SCGB1D2	-0.25	0.645966	0.963
SEMA4A	-0.25	0.645965	0.963
SERINC3	-0.25	0.66268	0.97
SHROOM2	-0.25	0.645965	0.963
SLC11A1	-0.25	0.645966	0.963
SLC22A10	-0.25	0.645965	0.963
SLC25A37	-0.25	0.645965	0.963
SLC35D2	-0.25	0.645965	0.963
SLC4A3	-0.25	0.645966	0.963
SLC51A	-0.25	0.645965	0.963
SMTN	-0.25	0.645966	0.963
SPTSSB	-0.25	0.645965	0.963
SRCIN1	-0.25	0.645965	0.963
ST8SIA1	-0.25	0.662679	0.97
SWAP70	-0.25	0.645966	0.963
SYNJ1	-0.25	0.645965	0.963
TAF1B	-0.25	0.645965	0.963
TAS2R39	-0.25	0.645965	0.963
TRIM10	-0.25	0.645965	0.963
TUBA1B	-0.25	0.680102	0.97
XKR9	-0.25	0.645966	0.963
ZNF684	-0.25	0.645966	0.963
ZNF716	-0.25	0.645965	0.963
ZNF862	-0.25	0.645966	0.963
ZRANB2	-0.25	0.645965	0.963
ACTRT3	-0.24	0.658714	0.967
ADAM23	-0.24	0.658714	0.967
ARHGDI1B	-0.24	0.658715	0.967
B3GAT1	-0.24	0.658714	0.967
BEND2	-0.24	0.658715	0.967
C1orf234	-0.24	0.658714	0.967
C22orf34	-0.24	0.674938	0.97
C2orf82	-0.24	0.658715	0.967
C6orf99	-0.24	0.658714	0.967
CA14	-0.24	0.658714	0.967
CA3	-0.24	0.658714	0.967
CCDC106	-0.24	0.658715	0.967
CCL14	-0.24	0.658714	0.967

CEACAM16	-0.24	0.658714	0.967
CENPF	-0.24	0.658714	0.967
CEP78	-0.24	0.658714	0.967
CES3	-0.24	0.658714	0.967
CFAP46	-0.24	0.658714	0.967
CHRN2	-0.24	0.658715	0.967
CLDN4	-0.24	0.658714	0.967
CLEC1B	-0.24	0.674938	0.97
CMAS	-0.24	0.658714	0.967
CMPK1	-0.24	0.658715	0.967
CR1	-0.24	0.658714	0.967
CSF3R	-0.24	0.658714	0.967
DBI	-0.24	0.658714	0.967
DCD	-0.24	0.674938	0.97
DGAT2	-0.24	0.658714	0.967
DGKK	-0.24	0.658715	0.967
GINS1	-0.24	0.674938	0.97
GTF2A1	-0.24	0.658714	0.967
HSPB6	-0.24	0.658714	0.967
HTR5A	-0.24	0.658714	0.967
ICOSLG	-0.24	0.658714	0.967
IFNL2	-0.24	0.658714	0.967
IKBK	-0.24	0.658715	0.967
IMMT	-0.24	0.674938	0.97
KCNJ3	-0.24	0.674939	0.97
KIAA1598	-0.24	0.658715	0.967
KPNA6	-0.24	0.674938	0.97
LIMD1	-0.24	0.658714	0.967
LOC286238	-0.24	0.658714	0.967
LPAR3	-0.24	0.658714	0.967
LRIT1	-0.24	0.674938	0.97
LYZL2	-0.24	0.658714	0.967
MCC	-0.24	0.658714	0.967
MED14OS	-0.24	0.69167	0.97
MUC13	-0.24	0.658714	0.967
NDUFA10	-0.24	0.674938	0.97
NIPA2	-0.24	0.658714	0.967
NR2F1	-0.24	0.658714	0.967
NR5A1	-0.24	0.658714	0.967
NUDT12	-0.24	0.674938	0.97
OR5AR1	-0.24	0.658714	0.967
PBLD	-0.24	0.658714	0.967
PCBP1	-0.24	0.658714	0.967
PDCD1LG2	-0.24	0.658714	0.967
PER3	-0.24	0.658714	0.967
PGAM4	-0.24	0.658714	0.967
PGM2	-0.24	0.658714	0.967

PKIG	-0.24	0.658714	0.967
PLCXD1	-0.24	0.658714	0.967
POU5F2	-0.24	0.658714	0.967
PRR5L	-0.24	0.658714	0.967
RAD54B	-0.24	0.658714	0.967
RANGRF	-0.24	0.658714	0.967
RASA4	-0.24	0.658714	0.967
RBAK-RBAK	-0.24	0.674938	0.97
RBMXL2	-0.24	0.658714	0.967
RERG	-0.24	0.674938	0.97
RFTN2	-0.24	0.658714	0.967
RIC3	-0.24	0.658714	0.967
RIMBP3	-0.24	0.658714	0.967
RNF138	-0.24	0.658714	0.967
RNF212	-0.24	0.658714	0.967
RNF39	-0.24	0.658714	0.967
RPS8	-0.24	0.729558	0.971
RTL1	-0.24	0.658714	0.967
S100A3	-0.24	0.674938	0.97
SAFB2	-0.24	0.658715	0.967
SDCCAG8	-0.24	0.658714	0.967
SDHD	-0.24	0.658714	0.967
SFTPD	-0.24	0.658714	0.967
SIGLEC7	-0.24	0.674938	0.97
SLC1A7	-0.24	0.658714	0.967
SYNGR4	-0.24	0.674939	0.97
TACR2	-0.24	0.658714	0.967
TEX2	-0.24	0.674938	0.97
TGFBR2	-0.24	0.658715	0.967
TIMM10	-0.24	0.658714	0.967
TSEN15	-0.24	0.658714	0.967
TSPYL1	-0.24	0.658714	0.967
VWA2	-0.24	0.674938	0.97
ZDHHC2	-0.24	0.658714	0.967
ZNF547	-0.24	0.658714	0.967
ZNF728	-0.24	0.658714	0.967
ACTC1	-0.23	0.671565	0.97
ACVR1C	-0.23	0.671565	0.97
ADCK5	-0.23	0.671565	0.97
ADNP2	-0.23	0.671565	0.97
AKAP8	-0.23	0.671565	0.97
AMPH	-0.23	0.671565	0.97
ANKRD26	-0.23	0.671565	0.97
ANXA13	-0.23	0.671565	0.97
AOC1	-0.23	0.687233	0.97
ARHGEF39	-0.23	0.671565	0.97
ATF1	-0.23	0.671565	0.97

C10orf82	-0.23	0.671565	0.97
C2orf78	-0.23	0.671565	0.97
C4orf6	-0.23	0.671565	0.97
C7orf55-LUC	-0.23	0.671565	0.97
CCDC107	-0.23	0.671565	0.97
CCDC64B	-0.23	0.687233	0.97
CCNDBP1	-0.23	0.687232	0.97
CCNI	-0.23	0.671565	0.97
CELA1	-0.23	0.671565	0.97
CEP44	-0.23	0.671565	0.97
CMYA5	-0.23	0.703418	0.97
COX16	-0.23	0.671565	0.97
CPA1	-0.23	0.671565	0.97
CSNK1G2	-0.23	0.687233	0.97
CWF19L1	-0.23	0.671565	0.97
DUS3L	-0.23	0.671565	0.97
EGFL8	-0.23	0.671565	0.97
EPB41	-0.23	0.671565	0.97
EPHA2	-0.23	0.671565	0.97
ERCC6	-0.23	0.703417	0.97
ERGIC2	-0.23	0.671565	0.97
FAM185A	-0.23	0.671565	0.97
FAM212A	-0.23	0.671565	0.97
FGFBP2	-0.23	0.687232	0.97
FXVD6	-0.23	0.671565	0.97
FYCO1	-0.23	0.687232	0.97
FZD7	-0.23	0.687233	0.97
GAB1	-0.23	0.671565	0.97
GALNT18	-0.23	0.671565	0.97
GHR	-0.23	0.671565	0.97
GPATCH8	-0.23	0.671565	0.97
GRAMD2	-0.23	0.671565	0.97
GRASP	-0.23	0.671565	0.97
GRIN3A	-0.23	0.671565	0.97
HEXA	-0.23	0.671565	0.97
HNF1B	-0.23	0.671565	0.97
IFNA10	-0.23	0.671565	0.97
INSC	-0.23	0.671565	0.97
KDM1A	-0.23	0.703418	0.97
KIAA0556	-0.23	0.671565	0.97
KLHL3	-0.23	0.671565	0.97
LMOD1	-0.23	0.703418	0.97
LYPD4	-0.23	0.671565	0.97
MAN1A1	-0.23	0.671565	0.97
MCFD2	-0.23	0.671565	0.97
MIOX	-0.23	0.671565	0.97
MLANA	-0.23	0.671565	0.97

MMP17	-0.23	0.703418	0.97
MTX1	-0.23	0.687232	0.97
NAV2	-0.23	0.687233	0.97
NCF4	-0.23	0.671565	0.97
NCR3	-0.23	0.671565	0.97
NID1	-0.23	0.671565	0.97
NOP2	-0.23	0.703418	0.97
OR2L5	-0.23	0.671565	0.97
OR2V2	-0.23	0.671565	0.97
OR8K3	-0.23	0.671565	0.97
PDZK1IP1	-0.23	0.671565	0.97
PF4V1	-0.23	0.671565	0.97
PHOX2B	-0.23	0.671565	0.97
PIGY	-0.23	0.687233	0.97
PPT1	-0.23	0.671565	0.97
PRRG4	-0.23	0.671565	0.97
RAB36	-0.23	0.671565	0.97
RABL2B	-0.23	0.671565	0.97
RAP1A	-0.23	0.671565	0.97
RLIM	-0.23	0.671565	0.97
RUSC2	-0.23	0.671565	0.97
SALL3	-0.23	0.687232	0.97
SDHC	-0.23	0.703418	0.97
SH2D3C	-0.23	0.671565	0.97
SLC1A6	-0.23	0.671565	0.97
SLC27A3	-0.23	0.671565	0.97
SMUG1	-0.23	0.671565	0.97
SOX1	-0.23	0.671565	0.97
SP140L	-0.23	0.671565	0.97
SPRR2G	-0.23	0.671565	0.97
SSTR4	-0.23	0.671565	0.97
STOX2	-0.23	0.671565	0.97
STX1B	-0.23	0.671565	0.97
SYT13	-0.23	0.671565	0.97
TAF1D	-0.23	0.671565	0.97
TDP1	-0.23	0.671565	0.97
TGM6	-0.23	0.671565	0.97
TMC7	-0.23	0.671565	0.97
TMEM167A	-0.23	0.73997	0.972
TOR1AIP2	-0.23	0.671565	0.97
TRAF5	-0.23	0.671565	0.97
TREML1	-0.23	0.687233	0.97
TRIM45	-0.23	0.671565	0.97
TRIM56	-0.23	0.671565	0.97
TRPV2	-0.23	0.671565	0.97
TSPAN2	-0.23	0.671565	0.97
TTLL1	-0.23	0.671565	0.97

UPK2	-0.23	0.671565	0.97
URM1	-0.23	0.671565	0.97
USP46	-0.23	0.671565	0.97
WAC	-0.23	0.687233	0.97
WFDC12	-0.23	0.671565	0.97
WNT9A	-0.23	0.671565	0.97
XAGE2	-0.23	0.671565	0.97
XKR4	-0.23	0.671565	0.97
ZNF17	-0.23	0.671565	0.97
ZNF821	-0.23	0.671565	0.97
ACOX3	-0.22	0.684514	0.97
ADI1	-0.22	0.684514	0.97
ADRA2C	-0.22	0.684514	0.97
ANK1	-0.22	0.684515	0.97
ANKRD6	-0.22	0.684514	0.97
AQP4	-0.22	0.684514	0.97
ASCC2	-0.22	0.699627	0.97
ATF6	-0.22	0.684514	0.97
ATP2B3	-0.22	0.684514	0.97
B4GALNT3	-0.22	0.684515	0.97
BID	-0.22	0.684515	0.97
BLMH	-0.22	0.684514	0.97
BLOC1S6	-0.22	0.684515	0.97
BTBD7	-0.22	0.684514	0.97
C17orf72	-0.22	0.684514	0.97
C1orf146	-0.22	0.684515	0.97
C2orf70	-0.22	0.699627	0.97
C8A	-0.22	0.699627	0.97
CACNB3	-0.22	0.684515	0.97
CBWD1	-0.22	0.684514	0.97
CDH22	-0.22	0.684515	0.97
CDK5R2	-0.22	0.699627	0.97
CFC1	-0.22	0.684514	0.97
COASY	-0.22	0.684515	0.97
COX6B2	-0.22	0.684514	0.97
CPSF6	-0.22	0.684514	0.97
CTDP1	-0.22	0.699627	0.97
CXCL12	-0.22	0.684514	0.97
CYP8B1	-0.22	0.684514	0.97
DCAF4	-0.22	0.699628	0.97
DCDC2	-0.22	0.684515	0.97
DEFA5	-0.22	0.684515	0.97
DNAH2	-0.22	0.699627	0.97
EXOSC5	-0.22	0.684515	0.97
FAM102B	-0.22	0.684514	0.97
FAM228A	-0.22	0.684514	0.97
FBXL16	-0.22	0.684514	0.97

FOXB2	-0.22	0.684515	0.97
FOXD4L5	-0.22	0.684514	0.97
FOXF1	-0.22	0.684514	0.97
FRG1	-0.22	0.684515	0.97
GFAP	-0.22	0.684514	0.97
GKN2	-0.22	0.684514	0.97
GPAM	-0.22	0.684515	0.97
GRK5	-0.22	0.699628	0.97
GSTP1	-0.22	0.684514	0.97
HAND1	-0.22	0.684515	0.97
HAS2	-0.22	0.684514	0.97
HFE2	-0.22	0.684514	0.97
HIST1H2AC	-0.22	0.684515	0.97
HSD17B2	-0.22	0.684514	0.97
HUNK	-0.22	0.684514	0.97
IL11	-0.22	0.684514	0.97
KIZ	-0.22	0.699627	0.97
KPRP	-0.22	0.699627	0.97
LGALS8	-0.22	0.684514	0.97
LHX1	-0.22	0.684515	0.97
LLGL2	-0.22	0.684514	0.97
LRRC37A3	-0.22	0.684514	0.97
LYVE1	-0.22	0.684514	0.97
MADCAM1	-0.22	0.684515	0.97
MAP9	-0.22	0.684515	0.97
MED20	-0.22	0.684514	0.97
MINK1	-0.22	0.684515	0.97
MRPS6	-0.22	0.684514	0.97
MS4A12	-0.22	0.684514	0.97
MTMR1	-0.22	0.684514	0.97
NEUROG1	-0.22	0.684514	0.97
NKAP	-0.22	0.699627	0.97
NMBR	-0.22	0.699627	0.97
NOL12	-0.22	0.699628	0.97
NPNT	-0.22	0.684514	0.97
NUP62	-0.22	0.715118	0.97
OR1J2	-0.22	0.699627	0.97
OR2T5	-0.22	0.699627	0.97
OR4C3	-0.22	0.684514	0.97
OR9Q1	-0.22	0.684514	0.97
PALMD	-0.22	0.684515	0.97
PATE2	-0.22	0.684515	0.97
PIAS2	-0.22	0.684514	0.97
PLCB1	-0.22	0.684514	0.97
PLIN2	-0.22	0.684515	0.97
PPAT	-0.22	0.684515	0.97
PTGES3	-0.22	0.684515	0.97

PTRHD1	-0.22	0.684514	0.97
RAPH1	-0.22	0.699627	0.97
RASSF2	-0.22	0.684515	0.97
RCBTB1	-0.22	0.684514	0.97
RIOK1	-0.22	0.699627	0.97
RMDN3	-0.22	0.684515	0.97
RNF11	-0.22	0.684514	0.97
RPGRIP1L	-0.22	0.684515	0.97
RPRML	-0.22	0.684514	0.97
SBK3	-0.22	0.684515	0.97
SEPT12	-0.22	0.684514	0.97
SERPINB6	-0.22	0.684515	0.97
SH3BGRL2	-0.22	0.684515	0.97
SLC35D1	-0.22	0.699627	0.97
SLC38A1	-0.22	0.684514	0.97
SLC7A14	-0.22	0.684514	0.97
SLFNL1	-0.22	0.684515	0.97
SPRED2	-0.22	0.684515	0.97
SPTBN1	-0.22	0.684515	0.97
SYP	-0.22	0.684515	0.97
TANGO2	-0.22	0.699628	0.97
TCEANC2	-0.22	0.684515	0.97
TCEB2	-0.22	0.699628	0.97
TCERG1L	-0.22	0.684515	0.97
TFF1	-0.22	0.684514	0.97
TFG	-0.22	0.699628	0.97
TM4SF1	-0.22	0.684514	0.97
TMEM151A	-0.22	0.684514	0.97
TMEM247	-0.22	0.684514	0.97
TMEM50B	-0.22	0.684515	0.97
TMEM69	-0.22	0.684514	0.97
TRPC7	-0.22	0.684514	0.97
TUBA8	-0.22	0.699627	0.97
UBE2W	-0.22	0.684514	0.97
VPS37C	-0.22	0.684515	0.97
WDR12	-0.22	0.732343	0.971
WFDC9	-0.22	0.684514	0.97
ZNF138	-0.22	0.684515	0.97
ZNF41	-0.22	0.684514	0.97
ZP4	-0.22	0.684514	0.97
AGO4	-0.21	0.697517	0.97
AMPD3	-0.21	0.697517	0.97
ANKRD13A	-0.21	0.697517	0.97
APOA4	-0.21	0.712078	0.97
ARHGAP5	-0.21	0.697517	0.97
ARHGEF28	-0.21	0.697517	0.97
ATP6V0D2	-0.21	0.697518	0.97

ATP8B4	-0.21	0.697517	0.97
AZI2	-0.21	0.697517	0.97
BEST2	-0.21	0.697517	0.97
BPIFB4	-0.21	0.697517	0.97
BPIFB6	-0.21	0.697517	0.97
C2CD4A	-0.21	0.697517	0.97
C3orf62	-0.21	0.712079	0.97
C9orf131	-0.21	0.712078	0.97
CA6	-0.21	0.697517	0.97
CCDC38	-0.21	0.697517	0.97
CFC1B	-0.21	0.697517	0.97
CHRFAM7A	-0.21	0.697517	0.97
COL18A1	-0.21	0.712078	0.97
COL5A1	-0.21	0.697517	0.97
COMMD7	-0.21	0.697518	0.97
COMMD8	-0.21	0.697517	0.97
COX5B	-0.21	0.712079	0.97
CRYBB2	-0.21	0.697518	0.97
CTPS2	-0.21	0.697517	0.97
CYBB	-0.21	0.697517	0.97
DEFB119	-0.21	0.697517	0.97
DTX2	-0.21	0.697517	0.97
EHF	-0.21	0.697517	0.97
EIF2AK4	-0.21	0.697518	0.97
EXOC3L4	-0.21	0.726968	0.971
FAM53B	-0.21	0.697517	0.97
FBXW8	-0.21	0.697517	0.97
FIGNL1	-0.21	0.697517	0.97
FOLR3	-0.21	0.697517	0.97
GAD2	-0.21	0.697517	0.97
GFOD2	-0.21	0.697517	0.97
HAUS6	-0.21	0.697517	0.97
HDAC5	-0.21	0.697517	0.97
HTR3B	-0.21	0.697517	0.97
IARS	-0.21	0.726968	0.971
IL17B	-0.21	0.697517	0.97
IL17REL	-0.21	0.697517	0.97
JHDM1D	-0.21	0.726969	0.971
KCNQ4	-0.21	0.697518	0.97
KCTD2	-0.21	0.697517	0.97
KIFC2	-0.21	0.697517	0.97
KIR3DL1	-0.21	0.697517	0.97
KISS1	-0.21	0.712079	0.97
KRT17	-0.21	0.697518	0.97
KRTAP5-1	-0.21	0.697517	0.97
LIN7B	-0.21	0.697517	0.97
MACROD2	-0.21	0.697517	0.97

MAGEA11	-0.21	0.697518	0.97
METTL22	-0.21	0.697517	0.97
MRPS18C	-0.21	0.697518	0.97
MUT	-0.21	0.697517	0.97
MYOM2	-0.21	0.697518	0.97
NAT8	-0.21	0.697517	0.97
NOL4	-0.21	0.697517	0.97
OIP5	-0.21	0.697517	0.97
PDIA3	-0.21	0.697517	0.97
PHF3	-0.21	0.697517	0.97
PNMA3	-0.21	0.697518	0.97
PNMAL2	-0.21	0.712079	0.97
PRAMEF18	-0.21	0.697517	0.97
R3HDM4	-0.21	0.712079	0.97
RAB39A	-0.21	0.697518	0.97
RASA1	-0.21	0.712078	0.97
RHCE	-0.21	0.697517	0.97
RIPK1	-0.21	0.697518	0.97
RNASEH2A	-0.21	0.712079	0.97
SEMA3G	-0.21	0.697517	0.97
SEMG1	-0.21	0.697517	0.97
SEPT13	-0.21	0.697517	0.97
SLC14A1	-0.21	0.712079	0.97
SLC25A36	-0.21	0.697517	0.97
SLC38A10	-0.21	0.697518	0.97
SLC38A4	-0.21	0.697517	0.97
SLC6A9	-0.21	0.712079	0.97
SLCO1B7	-0.21	0.697517	0.97
SNX11	-0.21	0.697518	0.97
SOCS1	-0.21	0.697517	0.97
STK19	-0.21	0.697518	0.97
TAGLN3	-0.21	0.697517	0.97
TBC1D22B	-0.21	0.697517	0.97
TBC1D24	-0.21	0.712079	0.97
TCEB3B	-0.21	0.712079	0.97
TCTN1	-0.21	0.697517	0.97
TECRL	-0.21	0.697517	0.97
TEKT3	-0.21	0.697517	0.97
TIMM23B	-0.21	0.760991	0.972
TMEM92	-0.21	0.697517	0.97
TNNT3	-0.21	0.697517	0.97
UBTFL1	-0.21	0.697517	0.97
VWA5A	-0.21	0.697517	0.97
WDR59	-0.21	0.697517	0.97
WDR78	-0.21	0.697517	0.97
WNK3	-0.21	0.697517	0.97
ZDHHC19	-0.21	0.697517	0.97

ZFYVE26	-0.21	0.697517	0.97
ZFYVE9	-0.21	0.712079	0.97
ZNF215	-0.21	0.697518	0.97
ZNF436	-0.21	0.697517	0.97
AAK1	-0.2	0.710633	0.97
ABHD15	-0.2	0.710633	0.97
ADAMTS10	-0.2	0.710632	0.97
ADAMTS9	-0.2	0.710632	0.97
AGPAT9	-0.2	0.710633	0.97
AGTR2	-0.2	0.710633	0.97
AKIRIN1	-0.2	0.710633	0.97
ALDOB	-0.2	0.710632	0.97
ANK2	-0.2	0.710633	0.97
APOC2	-0.2	0.710633	0.97
APOF	-0.2	0.710633	0.97
APRT	-0.2	0.724555	0.97
ARL4A	-0.2	0.710633	0.97
BASP1	-0.2	0.724555	0.97
C10orf90	-0.2	0.724555	0.97
C16orf78	-0.2	0.710632	0.97
C19orf69	-0.2	0.724555	0.97
C1orf141	-0.2	0.710633	0.97
C9orf129	-0.2	0.710633	0.97
CCDC64	-0.2	0.724555	0.97
CCKBR	-0.2	0.710633	0.97
CCM2L	-0.2	0.710633	0.97
CD3G	-0.2	0.710633	0.97
CDC27	-0.2	0.754877	0.972
CDCA5	-0.2	0.724555	0.97
CHRAC1	-0.2	0.724555	0.97
CHRM4	-0.2	0.710633	0.97
CLCA4	-0.2	0.710633	0.97
CLPSL2	-0.2	0.710633	0.97
COL10A1	-0.2	0.724555	0.97
CSTF2	-0.2	0.710633	0.97
CTSA	-0.2	0.710633	0.97
CWF19L2	-0.2	0.724555	0.97
DCAF16	-0.2	0.710633	0.97
DEFB136	-0.2	0.710633	0.97
DLX4	-0.2	0.710633	0.97
DRAP1	-0.2	0.738965	0.972
ELAVL2	-0.2	0.710633	0.97
ELOF1	-0.2	0.710633	0.97
ENSA	-0.2	0.710632	0.97
EXOC1	-0.2	0.710633	0.97
EZH1	-0.2	0.724555	0.97
FAM132A	-0.2	0.710633	0.97

FAM133A	-0.2	0.724555	0.97
FAM3D	-0.2	0.710632	0.97
FAM78B	-0.2	0.710633	0.97
FMO1	-0.2	0.710632	0.97
GAL	-0.2	0.724555	0.97
GHITM	-0.2	0.710633	0.97
GNL1	-0.2	0.710633	0.97
GOLGA4	-0.2	0.710633	0.97
GOLGA6B	-0.2	0.710633	0.97
GP2	-0.2	0.710633	0.97
GPR137	-0.2	0.724555	0.97
GPR56	-0.2	0.710632	0.97
GRID2IP	-0.2	0.738965	0.972
GRM4	-0.2	0.710633	0.97
GRWD1	-0.2	0.710633	0.97
GSDMD	-0.2	0.710633	0.97
HAUS1	-0.2	0.724555	0.97
HIGD1B	-0.2	0.710633	0.97
IFNGR1	-0.2	0.710633	0.97
IL9R	-0.2	0.710633	0.97
IRF8	-0.2	0.710633	0.97
ITFG1	-0.2	0.710633	0.97
ITPR2	-0.2	0.710633	0.97
JMJD7	-0.2	0.710633	0.97
KIF21B	-0.2	0.724555	0.97
KLK7	-0.2	0.710632	0.97
KPNA2	-0.2	0.710633	0.97
KRT6B	-0.2	0.724555	0.97
LECT1	-0.2	0.710633	0.97
LRP2BP	-0.2	0.710632	0.97
LRRC34	-0.2	0.710633	0.97
MAP2	-0.2	0.710633	0.97
MDM4	-0.2	0.724555	0.97
METTL21D	-0.2	0.710633	0.97
MPND	-0.2	0.710633	0.97
MYL3	-0.2	0.724555	0.97
NAPSA	-0.2	0.710633	0.97
NBPF14	-0.2	0.738965	0.972
NCDN	-0.2	0.710632	0.97
NR2F6	-0.2	0.724555	0.97
NSA2	-0.2	0.724555	0.97
NTRK2	-0.2	0.724555	0.97
OCIAD1	-0.2	0.710633	0.97
OR10S1	-0.2	0.724555	0.97
OR9K2	-0.2	0.724555	0.97
OSER1	-0.2	0.710633	0.97
PCDHA7	-0.2	0.710633	0.97

PCDHB7	-0.2	0.710633	0.97
PLCZ1	-0.2	0.710633	0.97
PMF1	-0.2	0.710633	0.97
POLR3G	-0.2	0.710632	0.97
POTEB	-0.2	0.710633	0.97
POTEB2	-0.2	0.710633	0.97
PSORS1C1	-0.2	0.710633	0.97
PTPN23	-0.2	0.724555	0.97
RAB40A	-0.2	0.710633	0.97
RBBP4	-0.2	0.710633	0.97
RHPN1	-0.2	0.710633	0.97
RNF144B	-0.2	0.710632	0.97
RNF180	-0.2	0.710633	0.97
RNF185	-0.2	0.710633	0.97
RNF26	-0.2	0.710633	0.97
RPL6	-0.2	0.710633	0.97
SAA2	-0.2	0.724555	0.97
SEMA4G	-0.2	0.710633	0.97
SEPN1	-0.2	0.710633	0.97
SERPINA10	-0.2	0.710633	0.97
SERPINE3	-0.2	0.710633	0.97
SHC4	-0.2	0.710633	0.97
SHISA4	-0.2	0.724555	0.97
SLC10A6	-0.2	0.710633	0.97
SLC12A1	-0.2	0.710633	0.97
SLC2A12	-0.2	0.710633	0.97
SMU1	-0.2	0.738965	0.972
SNAI1	-0.2	0.710632	0.97
SPINK5	-0.2	0.710632	0.97
SQSTM1	-0.2	0.710633	0.97
SUSD5	-0.2	0.710633	0.97
SVIP	-0.2	0.710633	0.97
SWT1	-0.2	0.710633	0.97
TADA1	-0.2	0.724555	0.97
TBC1D2	-0.2	0.710632	0.97
TEX13A	-0.2	0.710633	0.97
TMEM192	-0.2	0.710633	0.97
TMLHE	-0.2	0.710633	0.97
TMPRSS13	-0.2	0.710633	0.97
TNFSF13B	-0.2	0.710633	0.97
TRIOBP	-0.2	0.710633	0.97
TRPV3	-0.2	0.724555	0.97
UGT1A7	-0.2	0.710633	0.97
UQCRC1	-0.2	0.724555	0.97
VILL	-0.2	0.710632	0.97
VSNL1	-0.2	0.710633	0.97
VWA5B2	-0.2	0.710633	0.97

WIF1	-0.2	0.710633	0.97
WWC3	-0.2	0.710633	0.97
YBX3	-0.2	0.724555	0.97
YDJC	-0.2	0.710633	0.97
ZBTB14	-0.2	0.710633	0.97
ZC3HAV1L	-0.2	0.724555	0.97
ZNF350	-0.2	0.710633	0.97
ZNF385D	-0.2	0.710633	0.97
ZNF584	-0.2	0.710633	0.97
ZNF726	-0.2	0.710633	0.97
ADCYAP1R1	-0.19	0.723846	0.97
AFAP1L1	-0.19	0.723846	0.97
ANTXRL	-0.19	0.723846	0.97
C11orf71	-0.19	0.723846	0.97
C17orf50	-0.19	0.737134	0.971
C19orf73	-0.19	0.723846	0.97
C1orf216	-0.19	0.723845	0.97
C4BPB	-0.19	0.723845	0.97
CARD18	-0.19	0.723845	0.97
CDK19	-0.19	0.737134	0.971
CHRNB1	-0.19	0.723846	0.97
CHRNB4	-0.19	0.723845	0.97
CPSF4	-0.19	0.723845	0.97
CRCT1	-0.19	0.723845	0.97
CSGALNAC1	-0.19	0.723846	0.97
CTNND2	-0.19	0.737134	0.971
DCAKD	-0.19	0.723845	0.97
DCLRE1C	-0.19	0.723846	0.97
DEFB4A	-0.19	0.723845	0.97
DENND1C	-0.19	0.723845	0.97
ECM2	-0.19	0.737134	0.971
EN1	-0.19	0.723845	0.97
ENPP6	-0.19	0.723845	0.97
FAM154B	-0.19	0.723845	0.97
FBXO15	-0.19	0.723846	0.97
FBXW4	-0.19	0.723846	0.97
FBXW5	-0.19	0.723846	0.97
FCN1	-0.19	0.723846	0.97
GADD45B	-0.19	0.723845	0.97
GDF6	-0.19	0.723845	0.97
GOT1L1	-0.19	0.723845	0.97
HBD	-0.19	0.723845	0.97
HECTD3	-0.19	0.723845	0.97
HSF2BP	-0.19	0.723846	0.97
HSFX1	-0.19	0.723845	0.97
HSFX2	-0.19	0.723845	0.97
HSP90AA1	-0.19	0.723845	0.97

IL25	-0.19	0.723845	0.97
IL2RA	-0.19	0.723846	0.97
IQCF2	-0.19	0.723845	0.97
KCNG2	-0.19	0.737134	0.971
KIFC1	-0.19	0.723845	0.97
KRTAP19-2	-0.19	0.723845	0.97
LMF2	-0.19	0.723846	0.97
LNX2	-0.19	0.723846	0.97
LOC1001296	-0.19	0.750963	0.972
LOC643802	-0.19	0.737133	0.971
LRRTM3	-0.19	0.723846	0.97
MAGEA1	-0.19	0.723846	0.97
MIOS	-0.19	0.737133	0.971
MRPL32	-0.19	0.723846	0.97
MRPS11	-0.19	0.723845	0.97
MYO18A	-0.19	0.723845	0.97
NAB2	-0.19	0.723845	0.97
NBPF3	-0.19	0.723846	0.97
NKAIN2	-0.19	0.723845	0.97
NME9	-0.19	0.723845	0.97
NMT2	-0.19	0.723846	0.97
NR1I3	-0.19	0.723845	0.97
NTN5	-0.19	0.723846	0.97
NUDT21	-0.19	0.737133	0.971
NUDT4	-0.19	0.723845	0.97
OGG1	-0.19	0.723845	0.97
OR2T34	-0.19	0.723845	0.97
OR51A2	-0.19	0.723845	0.97
OR51B6	-0.19	0.723845	0.97
OR5B21	-0.19	0.723845	0.97
OR5K1	-0.19	0.737134	0.971
OR8B4	-0.19	0.737134	0.971
PCBD1	-0.19	0.723846	0.97
PCDHAC2	-0.19	0.723845	0.97
PCDHGB7	-0.19	0.737134	0.971
PDE1C	-0.19	0.723846	0.97
PLA2G2D	-0.19	0.723845	0.97
PRAC2	-0.19	0.737133	0.971
PRAMEF17	-0.19	0.723845	0.97
PRAMEF2	-0.19	0.723845	0.97
PRKCA	-0.19	0.723845	0.97
RAET1E	-0.19	0.723845	0.97
RGCC	-0.19	0.723846	0.97
RPL32	-0.19	0.723845	0.97
RPS6KA3	-0.19	0.723846	0.97
SAMD14	-0.19	0.723845	0.97
SATL1	-0.19	0.723845	0.97

SELL	-0.19	0.723846	0.97
SFT2D2	-0.19	0.750963	0.972
SLA2	-0.19	0.723846	0.97
SLC12A9	-0.19	0.723845	0.97
SLC25A45	-0.19	0.723846	0.97
SLCO3A1	-0.19	0.723845	0.97
SPATA21	-0.19	0.723845	0.97
SYNPO2L	-0.19	0.723845	0.97
TINF2	-0.19	0.723845	0.97
TLX3	-0.19	0.723845	0.97
TNFSF13	-0.19	0.723846	0.97
TRAF1	-0.19	0.723845	0.97
TSEN2	-0.19	0.737133	0.971
TSPAN10	-0.19	0.750963	0.972
TTC23	-0.19	0.723846	0.97
TTC34	-0.19	0.723846	0.97
USP45	-0.19	0.723845	0.97
WFDC3	-0.19	0.723845	0.97
WFIKKN2	-0.19	0.723846	0.97
YIPF2	-0.19	0.723845	0.97
ZMYM1	-0.19	0.723845	0.97
ZRANB1	-0.19	0.723845	0.97
ZSCAN21	-0.19	0.723846	0.97
ANKHD1-EIF	-0.18	0.737201	0.971
ARHGEF5	-0.18	0.749835	0.972
ARL14	-0.18	0.737201	0.971
ATP9B	-0.18	0.737201	0.971
BAAT	-0.18	0.737201	0.971
C12orf75	-0.18	0.763013	0.972
C14orf180	-0.18	0.737201	0.971
C17orf99	-0.18	0.737201	0.971
C1orf177	-0.18	0.749836	0.972
C1orf21	-0.18	0.737201	0.971
C22orf24	-0.18	0.737201	0.971
C3orf80	-0.18	0.737201	0.971
C8G	-0.18	0.737201	0.971
CANT1	-0.18	0.763013	0.972
CCDC176	-0.18	0.749836	0.972
CD300LB	-0.18	0.737201	0.971
CDC42BPG	-0.18	0.749836	0.972
CEL	-0.18	0.737201	0.971
CEMP1	-0.18	0.737201	0.971
CHP1	-0.18	0.737201	0.971
CLIC5	-0.18	0.737201	0.971
CPA2	-0.18	0.737201	0.971
CSNK2A3	-0.18	0.737201	0.971
DEFB1	-0.18	0.737201	0.971

DEFB132	-0.18	0.737201	0.971
DES	-0.18	0.737201	0.971
DNAJC3	-0.18	0.737201	0.971
DOPEY2	-0.18	0.737201	0.971
ELP3	-0.18	0.737201	0.971
ENPEP	-0.18	0.737201	0.971
EPS8L3	-0.18	0.749835	0.972
ESPNL	-0.18	0.749835	0.972
FABP7	-0.18	0.737201	0.971
FAM104B	-0.18	0.737201	0.971
FAM114A1	-0.18	0.737201	0.971
FAM98C	-0.18	0.749835	0.972
FAM9A	-0.18	0.749836	0.972
GGA3	-0.18	0.749835	0.972
GJA3	-0.18	0.737201	0.971
GLIS2	-0.18	0.737201	0.971
GOLGA8M	-0.18	0.737201	0.971
GPX5	-0.18	0.737201	0.971
GTF2IRD2B	-0.18	0.737201	0.971
H1FNT	-0.18	0.737201	0.971
HNRNPC	-0.18	0.737201	0.971
HNRNPLL	-0.18	0.737201	0.971
IBTK	-0.18	0.737201	0.971
IL18	-0.18	0.737201	0.971
INSRR	-0.18	0.737201	0.971
ITGB4	-0.18	0.737201	0.971
KIF13A	-0.18	0.749835	0.972
KLK11	-0.18	0.737201	0.971
KRTAP15-1	-0.18	0.737201	0.971
LLEP1	-0.18	0.737201	0.971
MAP1LC3C	-0.18	0.737201	0.971
MMP26	-0.18	0.737201	0.971
MRPS16	-0.18	0.737201	0.971
MXD1	-0.18	0.737201	0.971
MYH1	-0.18	0.749836	0.972
NAA40	-0.18	0.763013	0.972
NKX6-1	-0.18	0.763013	0.972
NOD2	-0.18	0.737201	0.971
NPM2	-0.18	0.737201	0.971
OBP2A	-0.18	0.737201	0.971
OR2M3	-0.18	0.737201	0.971
OR5D13	-0.18	0.737201	0.971
OR8H1	-0.18	0.737201	0.971
ORC4	-0.18	0.749836	0.972
PARVB	-0.18	0.737201	0.971
PGF	-0.18	0.749836	0.972
PHKG1	-0.18	0.737201	0.971

PIF1	-0.18	0.737201	0.971
PNPLA4	-0.18	0.737201	0.971
POM121L12	-0.18	0.737201	0.971
POMGNT2	-0.18	0.737201	0.971
PPL	-0.18	0.737201	0.971
PRR13	-0.18	0.737201	0.971
PRTN3	-0.18	0.737201	0.971
PTK2B	-0.18	0.737201	0.971
PTMA	-0.18	0.749835	0.972
R3HDML	-0.18	0.737201	0.971
RELL1	-0.18	0.737201	0.971
RNF40	-0.18	0.749835	0.972
RPTN	-0.18	0.737201	0.971
S100A14	-0.18	0.737201	0.971
S100B	-0.18	0.737201	0.971
SCGB1A1	-0.18	0.737201	0.971
SCIN	-0.18	0.737201	0.971
SCN2B	-0.18	0.749835	0.972
SHC2	-0.18	0.737201	0.971
SHCBP1	-0.18	0.737201	0.971
SIM1	-0.18	0.737201	0.971
SIN3A	-0.18	0.749835	0.972
SLCO1A2	-0.18	0.737201	0.971
SMTNL1	-0.18	0.737201	0.971
SOWAHC	-0.18	0.737201	0.971
SPIN4	-0.18	0.737201	0.971
SPRR2F	-0.18	0.749836	0.972
SSRP1	-0.18	0.749836	0.972
STOML2	-0.18	0.749835	0.972
TEX40	-0.18	0.737201	0.971
TM9SF3	-0.18	0.737201	0.971
TMA16	-0.18	0.737201	0.971
TMEM164	-0.18	0.737201	0.971
TMEM38B	-0.18	0.737201	0.971
TMEM59L	-0.18	0.737201	0.971
TNFAIP8	-0.18	0.749836	0.972
TPRN	-0.18	0.737201	0.971
TREX2	-0.18	0.749836	0.972
TRIM67	-0.18	0.737201	0.971
TSPAN31	-0.18	0.737201	0.971
TTC6	-0.18	0.737201	0.971
VN1R1	-0.18	0.737201	0.971
WDR18	-0.18	0.763013	0.972
WDR41	-0.18	0.737201	0.971
WNT8B	-0.18	0.737201	0.971
XG	-0.18	0.737201	0.971
ZBTB48	-0.18	0.737201	0.971

ZFP3	-0.18	0.737201	0.971
ZFP37	-0.18	0.737201	0.971
ZNF311	-0.18	0.737201	0.971
ZNF506	-0.18	0.737201	0.971
ZNF699	-0.18	0.737201	0.971
ZNF883	-0.18	0.737201	0.971
ZUFSP	-0.18	0.737201	0.971
ADAMTS3	-0.17	0.750509	0.972
AIF1L	-0.17	0.750509	0.972
AKR1B15	-0.17	0.750509	0.972
ARHGAP42	-0.17	0.750509	0.972
ARMCX4	-0.17	0.750509	0.972
ASB13	-0.17	0.750509	0.972
ATP5F1	-0.17	0.750509	0.972
BIRC5	-0.17	0.775102	0.972
BMP5	-0.17	0.750509	0.972
BTBD8	-0.17	0.750509	0.972
C15orf40	-0.17	0.750509	0.972
C16orf93	-0.17	0.750509	0.972
C1orf228	-0.17	0.750509	0.972
CADPS	-0.17	0.762559	0.972
CASS4	-0.17	0.750509	0.972
CCDC71L	-0.17	0.775102	0.972
CCL22	-0.17	0.750509	0.972
CD24	-0.17	0.762559	0.972
CFI	-0.17	0.750509	0.972
CHRNA9	-0.17	0.762559	0.972
CSNK2B	-0.17	0.76256	0.972
CUL5	-0.17	0.750509	0.972
CYP11A1	-0.17	0.750509	0.972
DDAH1	-0.17	0.750509	0.972
DDX10	-0.17	0.750509	0.972
DHRS3	-0.17	0.750509	0.972
DNAJA1	-0.17	0.762559	0.972
EIF2B3	-0.17	0.762559	0.972
ENTPD8	-0.17	0.750509	0.972
EOGT	-0.17	0.750509	0.972
EXT1	-0.17	0.750509	0.972
FAM3A	-0.17	0.750509	0.972
FAM73A	-0.17	0.750509	0.972
FBRS	-0.17	0.762559	0.972
FLG2	-0.17	0.750509	0.972
FRG2B	-0.17	0.750509	0.972
GLOD4	-0.17	0.750509	0.972
GPR37L1	-0.17	0.750509	0.972
GRIN2B	-0.17	0.750509	0.972
GTSE1	-0.17	0.750509	0.972

H1FO	-0.17	0.750509	0.972
HCK	-0.17	0.762559	0.972
HDAC2	-0.17	0.750509	0.972
HDHD1	-0.17	0.750509	0.972
HINT3	-0.17	0.750509	0.972
HMCES	-0.17	0.750509	0.972
IRF7	-0.17	0.750509	0.972
IRS4	-0.17	0.762559	0.972
KATNA1	-0.17	0.750509	0.972
KRT3	-0.17	0.762559	0.972
LGI4	-0.17	0.750509	0.972
LILRA5	-0.17	0.762559	0.972
MED11	-0.17	0.750509	0.972
METTL21A	-0.17	0.750509	0.972
MFAP2	-0.17	0.750509	0.972
MKX	-0.17	0.750509	0.972
MSN	-0.17	0.750509	0.972
MYBBP1A	-0.17	0.750509	0.972
MYOCD	-0.17	0.750509	0.972
NANP	-0.17	0.750509	0.972
NFX1	-0.17	0.750509	0.972
NME1	-0.17	0.750509	0.972
NOBOX	-0.17	0.762559	0.972
NR2E3	-0.17	0.750509	0.972
NUTM1	-0.17	0.750509	0.972
PALM2-AKA	-0.17	0.750509	0.972
PATL1	-0.17	0.750509	0.972
PCDHA1	-0.17	0.750509	0.972
PCDHGB3	-0.17	0.762559	0.972
PGP	-0.17	0.762559	0.972
PIGS	-0.17	0.750509	0.972
PKP1	-0.17	0.750509	0.972
PPP1R14A	-0.17	0.750509	0.972
PTBP1	-0.17	0.750509	0.972
PTPN3	-0.17	0.750509	0.972
RAB34	-0.17	0.750509	0.972
REM1	-0.17	0.750509	0.972
RGS4	-0.17	0.750509	0.972
RHOD	-0.17	0.750509	0.972
RPL13A	-0.17	0.750509	0.972
SAGE1	-0.17	0.750509	0.972
SEC22A	-0.17	0.750509	0.972
SKOR1	-0.17	0.750509	0.972
SLC12A5	-0.17	0.762559	0.972
SLC1A1	-0.17	0.750509	0.972
SMTNL2	-0.17	0.750509	0.972
SPATA19	-0.17	0.750509	0.972

SRRM4	-0.17	0.750509	0.972
ST6GALNAC	-0.17	0.750509	0.972
STX19	-0.17	0.750509	0.972
STXBP2	-0.17	0.750509	0.972
TAS2R4	-0.17	0.750509	0.972
TNNI2	-0.17	0.750509	0.972
TRMT61B	-0.17	0.762559	0.972
TSTD1	-0.17	0.750509	0.972
USP49	-0.17	0.750509	0.972
VCL	-0.17	0.750509	0.972
VPS33B	-0.17	0.750509	0.972
VSIG1	-0.17	0.750509	0.972
ZKSCAN5	-0.17	0.750509	0.972
ZNF205	-0.17	0.762559	0.972
ZNF267	-0.17	0.750509	0.972
ZNF425	-0.17	0.750509	0.972
ZNRF2	-0.17	0.750509	0.972
ZW10	-0.17	0.750509	0.972
ABRACL	-0.16	0.763971	0.972
ADNP	-0.16	0.76397	0.972
ARAP3	-0.16	0.76397	0.972
ARHGEF18	-0.16	0.763971	0.972
ASPRV1	-0.16	0.76397	0.972
ATOX1	-0.16	0.76397	0.972
BAD	-0.16	0.76397	0.972
BOLA1	-0.16	0.763971	0.972
BUD13	-0.16	0.775458	0.972
C10orf91	-0.16	0.76397	0.972
C19orf47	-0.16	0.763971	0.972
C1orf189	-0.16	0.76397	0.972
C4orf27	-0.16	0.76397	0.972
CBLN4	-0.16	0.76397	0.972
CC2D1A	-0.16	0.76397	0.972
CCDC180	-0.16	0.775458	0.972
CCDC77	-0.16	0.76397	0.972
CDKL1	-0.16	0.763971	0.972
CDY2A	-0.16	0.763971	0.972
CDY2B	-0.16	0.763971	0.972
CES5A	-0.16	0.76397	0.972
CHI3L1	-0.16	0.76397	0.972
CLEC18B	-0.16	0.76397	0.972
CLINT1	-0.16	0.76397	0.972
CT62	-0.16	0.76397	0.972
DCAF4L1	-0.16	0.763971	0.972
DDX43	-0.16	0.775458	0.972
DIRAS3	-0.16	0.76397	0.972
DUPD1	-0.16	0.775458	0.972

EIF4EBP1	-0.16	0.763971	0.972
EPDR1	-0.16	0.76397	0.972
EXD3	-0.16	0.76397	0.972
FAM179B	-0.16	0.763971	0.972
FAM71A	-0.16	0.76397	0.972
FAM81B	-0.16	0.763971	0.972
FFAR4	-0.16	0.763971	0.972
FITM1	-0.16	0.76397	0.972
FKBP6	-0.16	0.76397	0.972
FYN	-0.16	0.763971	0.972
GALNT5	-0.16	0.763971	0.972
GAREM	-0.16	0.76397	0.972
GCFC2	-0.16	0.76397	0.972
GOLGA8R	-0.16	0.76397	0.972
GPATCH1	-0.16	0.76397	0.972
GPR128	-0.16	0.76397	0.972
GPS2	-0.16	0.763971	0.972
HAUS5	-0.16	0.775458	0.972
HGFAC	-0.16	0.76397	0.972
HIVEP2	-0.16	0.76397	0.972
HPDL	-0.16	0.76397	0.972
HYAL2	-0.16	0.76397	0.972
IDO2	-0.16	0.76397	0.972
IDS	-0.16	0.775458	0.972
ISOC2	-0.16	0.76397	0.972
KCNK7	-0.16	0.76397	0.972
KIAA0101	-0.16	0.763971	0.972
KLK10	-0.16	0.76397	0.972
LCE3D	-0.16	0.76397	0.972
LILRA4	-0.16	0.76397	0.972
LIM2	-0.16	0.76397	0.972
MAGEB3	-0.16	0.76397	0.972
MAP3K5	-0.16	0.76397	0.972
MCOLN1	-0.16	0.787301	0.972
MMAB	-0.16	0.76397	0.972
MND1	-0.16	0.763971	0.972
MRPL1	-0.16	0.775458	0.972
MXRA5	-0.16	0.76397	0.972
NBPF16	-0.16	0.787301	0.972
NKX6-3	-0.16	0.76397	0.972
NLRP3	-0.16	0.76397	0.972
NUDCD3	-0.16	0.76397	0.972
NUP50	-0.16	0.76397	0.972
OR10H5	-0.16	0.775458	0.972
OR2T1	-0.16	0.76397	0.972
OR4X1	-0.16	0.76397	0.972
OR6B2	-0.16	0.76397	0.972

OR7A10	-0.16	0.76397	0.972
OR7A17	-0.16	0.763971	0.972
P2RX2	-0.16	0.76397	0.972
PACSIN2	-0.16	0.76397	0.972
PARVA	-0.16	0.76397	0.972
PAX3	-0.16	0.775458	0.972
PCNXL4	-0.16	0.800511	0.973
PDE11A	-0.16	0.76397	0.972
PLEKHG5	-0.16	0.76397	0.972
PMM2	-0.16	0.76397	0.972
PPDPF	-0.16	0.76397	0.972
PRKAR1A	-0.16	0.76397	0.972
PTPRCAP	-0.16	0.76397	0.972
PTPRH	-0.16	0.76397	0.972
RAB23	-0.16	0.76397	0.972
RASSF4	-0.16	0.76397	0.972
RCC1	-0.16	0.787301	0.972
RFX7	-0.16	0.763971	0.972
RGL1	-0.16	0.775458	0.972
S100A1	-0.16	0.76397	0.972
SCP2D1	-0.16	0.76397	0.972
SCRT2	-0.16	0.763971	0.972
SLAMF8	-0.16	0.76397	0.972
SLC22A11	-0.16	0.76397	0.972
SLC25A14	-0.16	0.76397	0.972
SLC35B4	-0.16	0.76397	0.972
SLC39A13	-0.16	0.76397	0.972
SLC6A4	-0.16	0.763971	0.972
SOX18	-0.16	0.76397	0.972
SPRED1	-0.16	0.775458	0.972
SRD5A1	-0.16	0.76397	0.972
SRPR	-0.16	0.76397	0.972
SS18	-0.16	0.76397	0.972
STEAP3	-0.16	0.76397	0.972
SYCP3	-0.16	0.76397	0.972
TERF1	-0.16	0.763971	0.972
TMTC4	-0.16	0.76397	0.972
TREM1	-0.16	0.76397	0.972
TRPS1	-0.16	0.76397	0.972
TSHZ3	-0.16	0.76397	0.972
UAP1L1	-0.16	0.76397	0.972
UMOD	-0.16	0.76397	0.972
WDR6	-0.16	0.76397	0.972
WISP2	-0.16	0.775458	0.972
ZNF599	-0.16	0.775458	0.972
ZSCAN9	-0.16	0.76397	0.972
ACADM	-0.15	0.777427	0.972

ACD	-0.15	0.777426	0.972
ACMSD	-0.15	0.777426	0.972
ADAM29	-0.15	0.777426	0.972
ADCY9	-0.15	0.777426	0.972
ADH6	-0.15	0.777426	0.972
ALG9	-0.15	0.777426	0.972
ALOX5AP	-0.15	0.777426	0.972
AMER3	-0.15	0.777427	0.972
ANKRD24	-0.15	0.788329	0.972
ARHGDI3	-0.15	0.777427	0.972
ARHGEF12	-0.15	0.777426	0.972
ASB11	-0.15	0.777426	0.972
ATAD3B	-0.15	0.777426	0.972
ATP12A	-0.15	0.788329	0.972
ATP5G3	-0.15	0.777426	0.972
BANK1	-0.15	0.777426	0.972
C11orf16	-0.15	0.777426	0.972
C13orf45	-0.15	0.788328	0.972
C1orf87	-0.15	0.777426	0.972
C21orf91	-0.15	0.777426	0.972
C5orf48	-0.15	0.777427	0.972
CAPN7	-0.15	0.777426	0.972
CASKIN1	-0.15	0.777426	0.972
CDH4	-0.15	0.777426	0.972
CEP57	-0.15	0.777426	0.972
CES2	-0.15	0.777427	0.972
CIB4	-0.15	0.788329	0.972
CLEC3B	-0.15	0.788328	0.972
CMTM8	-0.15	0.788328	0.972
COMP	-0.15	0.777426	0.972
CORIN	-0.15	0.777426	0.972
CREB3L3	-0.15	0.777426	0.972
CRISP1	-0.15	0.777426	0.972
CST5	-0.15	0.777426	0.972
DEFB104A	-0.15	0.79949	0.973
DEFB104B	-0.15	0.79949	0.973
EIF4E2	-0.15	0.788329	0.972
ENPP5	-0.15	0.777426	0.972
EYA2	-0.15	0.788329	0.972
FABP9	-0.15	0.788328	0.972
FAM127C	-0.15	0.777426	0.972
FAM180A	-0.15	0.788329	0.972
FAM200A	-0.15	0.788329	0.972
FBXL12	-0.15	0.777426	0.972
FERD3L	-0.15	0.788329	0.972
FICD	-0.15	0.777426	0.972
FOXI1	-0.15	0.777426	0.972

FSCB	-0.15	0.777426	0.972
FXYD7	-0.15	0.788329	0.972
GAS1	-0.15	0.777426	0.972
GLYCTK	-0.15	0.777426	0.972
GNPTG	-0.15	0.777426	0.972
GOLPH3L	-0.15	0.777426	0.972
GORASP2	-0.15	0.777426	0.972
GPC2	-0.15	0.788329	0.972
GPS1	-0.15	0.777426	0.972
GPT2	-0.15	0.777426	0.972
H2AFY2	-0.15	0.777426	0.972
HCRTR2	-0.15	0.777426	0.972
HDHD2	-0.15	0.777426	0.972
HELZ2	-0.15	0.777427	0.972
HIPK2	-0.15	0.777426	0.972
HIST1H2AM	-0.15	0.777426	0.972
HLA-DQB1	-0.15	0.777426	0.972
HNRNPA3	-0.15	0.777426	0.972
HOXB8	-0.15	0.777426	0.972
HPD	-0.15	0.777426	0.972
IL1F10	-0.15	0.777426	0.972
IQCF1	-0.15	0.777426	0.972
KCNS2	-0.15	0.777426	0.972
KIAA1462	-0.15	0.777426	0.972
KIF2A	-0.15	0.777426	0.972
KRTAP27-1	-0.15	0.777427	0.972
KRTAP4-6	-0.15	0.788329	0.972
LANCL1	-0.15	0.777426	0.972
LEP	-0.15	0.777426	0.972
LHX2	-0.15	0.777427	0.972
LIMK1	-0.15	0.777426	0.972
LMCD1	-0.15	0.777426	0.972
LYPLA2	-0.15	0.777426	0.972
MAL	-0.15	0.788328	0.972
MAN2A1	-0.15	0.777426	0.972
MAPK8IP3	-0.15	0.788328	0.972
MFI2	-0.15	0.788328	0.972
MIF	-0.15	0.777427	0.972
MLH3	-0.15	0.777426	0.972
MNAT1	-0.15	0.777427	0.972
MNDA	-0.15	0.777426	0.972
MRI1	-0.15	0.777427	0.972
MYNN	-0.15	0.799491	0.973
OR2T10	-0.15	0.788328	0.972
OR51A7	-0.15	0.777426	0.972
OR8I2	-0.15	0.777426	0.972
ORMDL3	-0.15	0.777426	0.972

PIP5K1B	-0.15	0.777427	0.972
PLCB2	-0.15	0.788328	0.972
PLD2	-0.15	0.777426	0.972
PLEKHF1	-0.15	0.777426	0.972
POLD4	-0.15	0.777426	0.972
RAB7L1	-0.15	0.777426	0.972
RASGEF1A	-0.15	0.777427	0.972
RAX2	-0.15	0.788329	0.972
REG4	-0.15	0.777426	0.972
RNF125	-0.15	0.777426	0.972
ROCK1	-0.15	0.777426	0.972
RPH3AL	-0.15	0.777426	0.972
RUNX3	-0.15	0.788329	0.972
RYR2	-0.15	0.777426	0.972
SAMD4B	-0.15	0.812111	0.973
SLC26A2	-0.15	0.777426	0.972
SLC33A1	-0.15	0.777426	0.972
SLC6A6	-0.15	0.777426	0.972
STBD1	-0.15	0.777426	0.972
SUGP2	-0.15	0.777426	0.972
TAS1R2	-0.15	0.777426	0.972
TBX10	-0.15	0.777426	0.972
TBX4	-0.15	0.777427	0.972
TMEM110	-0.15	0.777426	0.972
TNFRSF11A	-0.15	0.777426	0.972
TNNC1	-0.15	0.777426	0.972
TPMT	-0.15	0.777426	0.972
TRAK1	-0.15	0.777426	0.972
TRIM49	-0.15	0.777426	0.972
UNC93A	-0.15	0.799491	0.973
ZFP92	-0.15	0.777426	0.972
ZNF253	-0.15	0.777426	0.972
ZNF697	-0.15	0.788329	0.972
AACS	-0.14	0.790934	0.972
ABCC12	-0.14	0.790933	0.972
ACPT	-0.14	0.790934	0.972
ACTL7B	-0.14	0.790933	0.972
AEN	-0.14	0.790934	0.972
AGER	-0.14	0.801198	0.973
AGGF1	-0.14	0.801198	0.973
ANKFN1	-0.14	0.790934	0.972
ARHGEF26	-0.14	0.790934	0.972
ARL2BP	-0.14	0.790933	0.972
ARL5C	-0.14	0.801199	0.973
ARNT	-0.14	0.790933	0.972
ASH2L	-0.14	0.801199	0.973
AVPR1B	-0.14	0.801199	0.973

BAALC	-0.14	0.790934	0.972
BPY2	-0.14	0.790934	0.972
BPY2B	-0.14	0.790933	0.972
BPY2C	-0.14	0.790933	0.972
BRI3BP	-0.14	0.790933	0.972
BTBD10	-0.14	0.790933	0.972
C15orf56	-0.14	0.790933	0.972
C18orf42	-0.14	0.790933	0.972
C22orf43	-0.14	0.790934	0.972
C4B	-0.14	0.790933	0.972
CA12	-0.14	0.790934	0.972
CCDC137	-0.14	0.801198	0.973
CCDC34	-0.14	0.790933	0.972
CD55	-0.14	0.801198	0.973
CECR5	-0.14	0.790933	0.972
CHMP1A	-0.14	0.801198	0.973
CISD2	-0.14	0.790933	0.972
CLCNKA	-0.14	0.790933	0.972
CNN3	-0.14	0.790934	0.972
COL16A1	-0.14	0.790934	0.972
CREBRF	-0.14	0.790934	0.972
CYP1A1	-0.14	0.790934	0.972
DCP1A	-0.14	0.790933	0.972
DNAAF3	-0.14	0.790934	0.972
DNAH3	-0.14	0.790933	0.972
DNAJC1	-0.14	0.790934	0.972
DNAJC15	-0.14	0.801198	0.973
DOK2	-0.14	0.790933	0.972
DPY19L1	-0.14	0.790933	0.972
DYNC1LI2	-0.14	0.790934	0.972
EEF1E1	-0.14	0.790933	0.972
ELAC2	-0.14	0.790933	0.972
ENPP4	-0.14	0.801199	0.973
EPPIN-WFD	-0.14	0.790934	0.972
FAM102A	-0.14	0.790934	0.972
FAM159B	-0.14	0.790933	0.972
FBXO21	-0.14	0.790933	0.972
FDX1	-0.14	0.790934	0.972
FGFR1OP	-0.14	0.801198	0.973
FOXB1	-0.14	0.790934	0.972
FRRS1L	-0.14	0.790933	0.972
FRY	-0.14	0.790934	0.972
GBP5	-0.14	0.790933	0.972
GCNT1	-0.14	0.790934	0.972
GHRL	-0.14	0.790933	0.972
GK5	-0.14	0.801198	0.973
GLIPR1L1	-0.14	0.790934	0.972

GNMT	-0.14	0.790933	0.972
GPR133	-0.14	0.790933	0.972
GRAP	-0.14	0.790933	0.972
GRB10	-0.14	0.801198	0.973
GRB7	-0.14	0.790933	0.972
HARBI1	-0.14	0.790933	0.972
HSPA12B	-0.14	0.790934	0.972
IFNAR1	-0.14	0.790934	0.972
IL33	-0.14	0.790934	0.972
INHA	-0.14	0.790933	0.972
ITGAD	-0.14	0.790934	0.972
ITPR3	-0.14	0.790934	0.972
KCND2	-0.14	0.790933	0.972
KCNU1	-0.14	0.790934	0.972
KDM4D	-0.14	0.801198	0.973
KLB	-0.14	0.790933	0.972
KLRF2	-0.14	0.790933	0.972
KRTAP4-7	-0.14	0.801199	0.973
LHFPL2	-0.14	0.790933	0.972
LIF	-0.14	0.790933	0.972
LOXL1	-0.14	0.790934	0.972
LRRFIP1	-0.14	0.790933	0.972
LZTFL1	-0.14	0.790934	0.972
MAP3K15	-0.14	0.790934	0.972
MAP3K9	-0.14	0.801198	0.973
MBD2	-0.14	0.790933	0.972
MEGF8	-0.14	0.790934	0.972
MEGF9	-0.14	0.790934	0.972
MET	-0.14	0.790933	0.972
MMAA	-0.14	0.790933	0.972
MS4A3	-0.14	0.790933	0.972
MTA2	-0.14	0.790933	0.972
MTRNR2L6	-0.14	0.811787	0.973
MTRNR2L9	-0.14	0.849243	0.978
MYH9	-0.14	0.801199	0.973
MYLK2	-0.14	0.801199	0.973
MYLK3	-0.14	0.801199	0.973
OLFM1	-0.14	0.790933	0.972
OR5M1	-0.14	0.790933	0.972
OR5M9	-0.14	0.790933	0.972
PBXIP1	-0.14	0.811787	0.973
PCDHGA10	-0.14	0.790933	0.972
PLCB4	-0.14	0.790933	0.972
PRKAR2B	-0.14	0.790933	0.972
PROX1	-0.14	0.790933	0.972
PRSS3	-0.14	0.790934	0.972
PYCR2	-0.14	0.790934	0.972

RAD9B	-0.14	0.790934	0.972
RBMX2	-0.14	0.801198	0.973
RCAN1	-0.14	0.790934	0.972
REEP2	-0.14	0.790934	0.972
RNF169	-0.14	0.790934	0.972
ROBO2	-0.14	0.790934	0.972
RPL23	-0.14	0.823707	0.978
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RSPO3	-0.14	0.790934	0.972
RXRG	-0.14	0.790933	0.972
SEPT9	-0.14	0.790933	0.972
SLC5A8	-0.14	0.790933	0.972
SLC6A20	-0.14	0.790933	0.972
SLC8B1	-0.14	0.790933	0.972
SMCP	-0.14	0.801198	0.973
SMIM1	-0.14	0.801199	0.973
SNED1	-0.14	0.790934	0.972
SPANXD	-0.14	0.790934	0.972
SPANXN1	-0.14	0.790933	0.972
ST6GAL2	-0.14	0.811787	0.973
STAMBPL1	-0.14	0.790933	0.972
SZRD1	-0.14	0.790934	0.972
TCF7	-0.14	0.790934	0.972
TERT	-0.14	0.790933	0.972
TIMM21	-0.14	0.790934	0.972
TKTL2	-0.14	0.790933	0.972
TLR2	-0.14	0.790933	0.972
TMEM11	-0.14	0.790934	0.972
TMEM150B	-0.14	0.790933	0.972
TMEM160	-0.14	0.790934	0.972
TMEM184C	-0.14	0.790933	0.972
TNF	-0.14	0.790933	0.972
TPTE2	-0.14	0.790934	0.972
TTC1	-0.14	0.790934	0.972
UCMA	-0.14	0.790934	0.972
UGP2	-0.14	0.790934	0.972
VMO1	-0.14	0.790933	0.972
WDR44	-0.14	0.811787	0.973
ZMIZ1	-0.14	0.790933	0.972
ZNF197	-0.14	0.790933	0.972
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ACBD7	-0.13	0.814247	0.973
AFAP1	-0.13	0.814248	0.973
AFAP1L2	-0.13	0.804564	0.973
AGR2	-0.13	0.804564	0.973

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ARHGAP25	-0.13	0.804564	0.973
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C1orf172	-0.13	0.804564	0.973
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C20orf85	-0.13	0.804564	0.973
C9orf85	-0.13	0.804564	0.973
CCDC63	-0.13	0.804564	0.973
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EDARADD	-0.13	0.804564	0.973
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MAGED2	-0.13	0.804564	0.973
MEIS2	-0.13	0.814247	0.973
MRPS2	-0.13	0.804564	0.973
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PSMG3	-0.13	0.814248	0.973
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ACADSB	-0.11	0.832072	0.978
AIP	-0.11	0.832073	0.978
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BARX2	-0.11	0.840339	0.978

BIK	-0.11	0.832072	0.978
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CAPN6	-0.11	0.832073	0.978
CD6	-0.11	0.832073	0.978
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MYL5	-0.11	0.832073	0.978
MYOM3	-0.11	0.840339	0.978
MYSM1	-0.11	0.832073	0.978
NAB1	-0.11	0.832073	0.978
NCL	-0.11	0.848838	0.978
NLRP4	-0.11	0.832072	0.978
NPAT	-0.11	0.832073	0.978
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OTOF	-0.11	0.840339	0.978

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PRDM9	-0.11	0.832073	0.978
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PRPH	-0.11	0.832073	0.978
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AFM	-0.1	0.845936	0.978
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ARHGAP19	-0.1	0.845936	0.978
ATP13A5	-0.1	0.845936	0.978
BARX1	-0.1	0.845936	0.978
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C19orf67	-0.1	0.845936	0.978
C1orf112	-0.1	0.845936	0.978
C7orf73	-0.1	0.879073	0.984
CCDC23	-0.1	0.86126	0.98
CCPG1	-0.1	0.845935	0.978
CCR5	-0.1	0.845936	0.978
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CELF3	-0.1	0.845936	0.978
CFHR3	-0.1	0.845936	0.978
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CPA3	-0.1	0.845935	0.978
CPSF4L	-0.1	0.845936	0.978
CXCL1	-0.1	0.853508	0.978
DAPL1	-0.1	0.845936	0.978
DMWD	-0.1	0.861261	0.98
DZIP1	-0.1	0.845936	0.978
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EIF2B1	-0.1	0.845936	0.978
EXTL3	-0.1	0.845936	0.978
FAM213B	-0.1	0.845936	0.978
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GALNT8	-0.1	0.845936	0.978
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GLE1	-0.1	0.879073	0.984
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GPR151	-0.1	0.845936	0.978
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HEMGN	-0.1	0.845936	0.978
HLA-DRB1	-0.1	0.845936	0.978
HOMER2	-0.1	0.845936	0.978

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IFT20	-0.1	0.845936	0.978
IFT88	-0.1	0.853509	0.978
IL36B	-0.1	0.845936	0.978
IL4R	-0.1	0.845936	0.978
IQCE	-0.1	0.853508	0.978
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KIF13B	-0.1	0.845936	0.978
KIF20B	-0.1	0.845936	0.978
KRTAP10-9	-0.1	0.845936	0.978
LRRC56	-0.1	0.845936	0.978
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MARVELD2	-0.1	0.845936	0.978
MATN3	-0.1	0.853509	0.978
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NALCN	-0.1	0.845935	0.978
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NCR2	-0.1	0.845936	0.978
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NDUFS4	-0.1	0.853508	0.978
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PCDHGA11	-0.1	0.845935	0.978
PGPEP1L	-0.1	0.845935	0.978
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POP1	-0.1	0.853509	0.978
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PROB1	-0.1	0.845936	0.978
PRSS12	-0.1	0.845935	0.978
PRSS57	-0.1	0.845936	0.978
PSG2	-0.1	0.845936	0.978
PSG6	-0.1	0.845936	0.978

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RASD2	-0.1	0.845936	0.978
RGS10	-0.1	0.845936	0.978
RIMS2	-0.1	0.845936	0.978
RMDN1	-0.1	0.845935	0.978
RPN2	-0.1	0.845936	0.978
RPS6KA6	-0.1	0.845936	0.978
RUFY1	-0.1	0.845936	0.978
SCXA	-0.1	0.845936	0.978
SCXB	-0.1	0.845936	0.978
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SMIM15	-0.1	0.845936	0.978
SPHK2	-0.1	0.845936	0.978
SPOCK1	-0.1	0.845936	0.978
SSR2	-0.1	0.845936	0.978
SYCN	-0.1	0.845935	0.978
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TENM3	-0.1	0.845936	0.978
TMEM200C	-0.1	0.853508	0.978
TP63	-0.1	0.845936	0.978
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TUBA3D	-0.1	0.845936	0.978
UBE2M	-0.1	0.853509	0.978
UHMK1	-0.1	0.845935	0.978
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VPS16	-0.1	0.853508	0.978
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WDR66	-0.1	0.870111	0.982
ZCRB1	-0.1	0.845936	0.978
ZNF501	-0.1	0.853509	0.978
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ANKRD45	-0.09	0.859823	0.978
ANXA6	-0.09	0.859823	0.978
AQP11	-0.09	0.859823	0.978
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ASTE1	-0.09	0.859823	0.978

ATAD3A	-0.09	0.859822	0.978
C10orf99	-0.09	0.859823	0.978
C1orf100	-0.09	0.859822	0.978
CCNT2	-0.09	0.859822	0.978
CDK7	-0.09	0.866689	0.982
CEP55	-0.09	0.873708	0.982
CHD8	-0.09	0.859823	0.978
CHRNA2	-0.09	0.866688	0.982
CLLU1OS	-0.09	0.859822	0.978
COL24A1	-0.09	0.859823	0.978
CSMD3	-0.09	0.866689	0.982
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DDHD1	-0.09	0.859822	0.978
DUSP11	-0.09	0.873708	0.982
DUSP15	-0.09	0.859822	0.978
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EDAR	-0.09	0.859823	0.978
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F9	-0.09	0.859822	0.978
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SCTR	-0.09	0.859822	0.978
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SYN1	-0.09	0.859822	0.978

SYTL1	-0.09	0.859823	0.978
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USP36	-0.09	0.866689	0.982
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WT1	-0.09	0.859823	0.978
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C18orf54	-0.08	0.873738	0.982
C19orf77	-0.08	0.873738	0.982
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DNAJC12	-0.08	0.873739	0.982
DUSP28	-0.08	0.873738	0.982

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FAM163B	-0.08	0.893656	0.984
FDX1L	-0.08	0.879984	0.984
FGF1	-0.08	0.873738	0.982
GATA6	-0.08	0.873738	0.982
GIMAP6	-0.08	0.879983	0.984
GRM6	-0.08	0.879983	0.984
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TROAP	-0.08	0.873739	0.982
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AKIRIN2	-0.07	0.887673	0.984
APLNR	-0.07	0.887674	0.984
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ARL6IP4	-0.07	0.89322	0.984
ASB12	-0.07	0.887673	0.984
ASPSCR1	-0.07	0.887674	0.984
ATP8B3	-0.07	0.887673	0.984
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C2orf27B	-0.07	0.898739	0.984
C8B	-0.07	0.887673	0.984
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CDC42BPB	-0.07	0.887673	0.984
CDH10	-0.07	0.887673	0.984
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CSN3	-0.07	0.887673	0.984
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DEFA4	-0.07	0.887674	0.984
DENND2A	-0.07	0.898739	0.984
DHTKD1	-0.07	0.89322	0.984
DNA2	-0.07	0.905461	0.984
DNAJB8	-0.07	0.887673	0.984
DNAJC17	-0.07	0.887673	0.984
EML3	-0.07	0.887673	0.984
EPHX4	-0.07	0.887673	0.984
EVA1B	-0.07	0.887673	0.984
FAM135B	-0.07	0.887674	0.984
FAR2	-0.07	0.887674	0.984
FOXC2	-0.07	0.887673	0.984
GAPDH	-0.07	0.893221	0.984
GLB1L2	-0.07	0.887673	0.984
GNPNAT1	-0.07	0.887673	0.984
GSG1	-0.07	0.887673	0.984
HDDC2	-0.07	0.887673	0.984
HERC5	-0.07	0.887673	0.984
HIPK1	-0.07	0.89322	0.984
HOXB4	-0.07	0.887673	0.984
HSPE1	-0.07	0.919267	0.984
IFNE	-0.07	0.887673	0.984
IRAK4	-0.07	0.887674	0.984
KIR2DL1	-0.07	0.887673	0.984
LONRF1	-0.07	0.887673	0.984
LRRC25	-0.07	0.887673	0.984
MAGEC3	-0.07	0.893221	0.984
MAK	-0.07	0.887673	0.984
MARCH3	-0.07	0.887673	0.984
MTMR11	-0.07	0.887673	0.984
NCF1	-0.07	0.887673	0.984
NEUROD1	-0.07	0.887673	0.984
NGFR	-0.07	0.887673	0.984
OR2T6	-0.07	0.887673	0.984
OR5AP2	-0.07	0.887673	0.984
OR5AU1	-0.07	0.887674	0.984
PALM3	-0.07	0.887673	0.984
PCDHGA4	-0.07	0.89322	0.984
PCSK4	-0.07	0.893221	0.984
PLEKHN1	-0.07	0.89322	0.984
PTX3	-0.07	0.887673	0.984

RAD51	-0.07	0.90546	0.984
RNF168	-0.07	0.887673	0.984
RNF219	-0.07	0.887674	0.984
RTKN2	-0.07	0.887673	0.984
SCUBE1	-0.07	0.898738	0.984
SHISA7	-0.07	0.89322	0.984
SLC15A2	-0.07	0.887674	0.984
SLC30A2	-0.07	0.887673	0.984
SLC37A2	-0.07	0.887673	0.984
SMYD2	-0.07	0.887673	0.984
SNX24	-0.07	0.887673	0.984
STARD8	-0.07	0.887673	0.984
STEAP1B	-0.07	0.887674	0.984
TAS2R42	-0.07	0.887673	0.984
TEN1	-0.07	0.887674	0.984
TFCP2L1	-0.07	0.887674	0.984
TIFA	-0.07	0.887674	0.984
TMEM37	-0.07	0.89322	0.984
TOMM5	-0.07	0.887673	0.984
TRMT112	-0.07	0.898739	0.984
TRMT2A	-0.07	0.89322	0.984
TSEN34	-0.07	0.887674	0.984
TSNAX	-0.07	0.887673	0.984
USP31	-0.07	0.887673	0.984
VAMP8	-0.07	0.887674	0.984
ZFP57	-0.07	0.887674	0.984
ZNF737	-0.07	0.89322	0.984
ZSCAN32	-0.07	0.887673	0.984
ABCC2	-0.06	0.906521	0.984
ADAM7	-0.06	0.90162	0.984
ADAM8	-0.06	0.90162	0.984
ADAMTS19	-0.06	0.90162	0.984
ALDOC	-0.06	0.90162	0.984
ALKBH1	-0.06	0.90162	0.984
ANGPTL2	-0.06	0.90162	0.984
APITD1	-0.06	0.90162	0.984
AREL1	-0.06	0.90162	0.984
ARMS2	-0.06	0.90162	0.984
ATP5O	-0.06	0.90162	0.984
ATXN1	-0.06	0.911343	0.984
B4GALT3	-0.06	0.90162	0.984
BAG4	-0.06	0.906521	0.984
BRF1	-0.06	0.90162	0.984
C11orf44	-0.06	0.906521	0.984
C19orf66	-0.06	0.90162	0.984
C1orf226	-0.06	0.90162	0.984
C1QTNF7	-0.06	0.906521	0.984

CACUL1	-0.06	0.90162	0.984
CASP8AP2	-0.06	0.917186	0.984
CCDC103	-0.06	0.90162	0.984
CCDC166	-0.06	0.90162	0.984
CCDC171	-0.06	0.906521	0.984
CCDC28A	-0.06	0.90162	0.984
CEBPA	-0.06	0.90162	0.984
CENPA	-0.06	0.90652	0.984
CHCHD10	-0.06	0.90162	0.984
CLDN2	-0.06	0.90162	0.984
CLP1	-0.06	0.911343	0.984
CNEP1R1	-0.06	0.90162	0.984
CRIM1	-0.06	0.90162	0.984
CSTA	-0.06	0.90162	0.984
CXCL9	-0.06	0.90162	0.984
CXCR1	-0.06	0.90162	0.984
CXorf61	-0.06	0.90162	0.984
DAPP1	-0.06	0.90162	0.984
DHODH	-0.06	0.90652	0.984
DHRS1	-0.06	0.90162	0.984
EIF2AK3	-0.06	0.90162	0.984
EPS8L1	-0.06	0.90162	0.984
FAM43A	-0.06	0.90162	0.984
FAM83A	-0.06	0.90162	0.984
FKBP10	-0.06	0.906521	0.984
FLT1	-0.06	0.90652	0.984
FOXQ1	-0.06	0.90162	0.984
GP1BA	-0.06	0.90162	0.984
GPBP1L1	-0.06	0.90162	0.984
GUCY2F	-0.06	0.90162	0.984
H2BFM	-0.06	0.90162	0.984
HEPH	-0.06	0.90162	0.984
HIST1H1A	-0.06	0.906521	0.984
HKR1	-0.06	0.906521	0.984
HMGA2	-0.06	0.90162	0.984
HNRNPH2	-0.06	0.90162	0.984
IHH	-0.06	0.90162	0.984
INHBC	-0.06	0.90162	0.984
KCNH6	-0.06	0.90162	0.984
KCTD1	-0.06	0.90162	0.984
KHNYN	-0.06	0.90162	0.984
KRTAP24-1	-0.06	0.90162	0.984
LCA5	-0.06	0.90162	0.984
LOC441155	-0.06	0.90162	0.984
LRRTM4	-0.06	0.90162	0.984
LY9	-0.06	0.90162	0.984
LYN	-0.06	0.90162	0.984

MAML2	-0.06	0.90162	0.984
MAP1A	-0.06	0.906521	0.984
MCEE	-0.06	0.906521	0.984
METTL7A	-0.06	0.90162	0.984
MON1B	-0.06	0.90652	0.984
MYL6	-0.06	0.90162	0.984
NSFL1C	-0.06	0.90162	0.984
ODF4	-0.06	0.90162	0.984
OIT3	-0.06	0.90162	0.984
OLIG3	-0.06	0.90162	0.984
PANX2	-0.06	0.90162	0.984
PCDHA13	-0.06	0.90162	0.984
PDGFRA	-0.06	0.90162	0.984
PEBP1	-0.06	0.90162	0.984
POLR2B	-0.06	0.911343	0.984
PPP1R15A	-0.06	0.90652	0.984
PRDX2	-0.06	0.90162	0.984
PTF1A	-0.06	0.90162	0.984
PTHLH	-0.06	0.90162	0.984
RFPL3	-0.06	0.90162	0.984
RNF103	-0.06	0.90162	0.984
RNF148	-0.06	0.90162	0.984
RSPH10B2	-0.06	0.90162	0.984
SEC11A	-0.06	0.90162	0.984
SEC24D	-0.06	0.90162	0.984
SEC61B	-0.06	0.90162	0.984
SESN2	-0.06	0.90162	0.984
SFR1	-0.06	0.90162	0.984
SLC16A13	-0.06	0.90162	0.984
SLC25A16	-0.06	0.90162	0.984
SLC25A23	-0.06	0.90162	0.984
SLC5A10	-0.06	0.90162	0.984
SLC6A18	-0.06	0.90162	0.984
SNCG	-0.06	0.90162	0.984
SOS1	-0.06	0.90162	0.984
STAT6	-0.06	0.90162	0.984
SYNJ2BP	-0.06	0.90652	0.984
TATDN1	-0.06	0.90162	0.984
THBD	-0.06	0.90162	0.984
TMC3	-0.06	0.90162	0.984
TMPRSS12	-0.06	0.90162	0.984
TNFSF12-TN	-0.06	0.90162	0.984
TPR	-0.06	0.90162	0.984
TREML4	-0.06	0.90162	0.984
TRIM55	-0.06	0.90162	0.984
UPF3A	-0.06	0.90162	0.984
WBP1L	-0.06	0.90162	0.984

WWC2	-0.06	0.90162	0.984
XKR5	-0.06	0.90652	0.984
ZBTB24	-0.06	0.90162	0.984
ZMYM6NB	-0.06	0.90162	0.984
ZNF184	-0.06	0.90162	0.984
ZNF480	-0.06	0.90162	0.984
ZNF568	-0.06	0.90162	0.984
ZNF623	-0.06	0.90162	0.984
ZNF70	-0.06	0.90162	0.984
ZNF799	-0.06	0.90162	0.984
ZNF827	-0.06	0.906521	0.984
ABCA4	-0.05	0.91565	0.984
ACTL9	-0.05	0.919868	0.984
ALKBH6	-0.05	0.91565	0.984
AP3B1	-0.05	0.91565	0.984
ARID5B	-0.05	0.91565	0.984
AS3MT	-0.05	0.91565	0.984
ATOH7	-0.05	0.91565	0.984
ATP6AP2	-0.05	0.919868	0.984
B9D2	-0.05	0.91565	0.984
C11orf42	-0.05	0.91565	0.984
C11orf70	-0.05	0.91565	0.984
C12orf43	-0.05	0.91565	0.984
C1orf123	-0.05	0.91565	0.984
C2orf66	-0.05	0.91565	0.984
C3orf67	-0.05	0.91565	0.984
CALD1	-0.05	0.923893	0.984
CAMP	-0.05	0.91565	0.984
CCDC24	-0.05	0.919868	0.984
CCDC66	-0.05	0.91565	0.984
CCL3	-0.05	0.91565	0.984
CDX2	-0.05	0.919867	0.984
CHD1	-0.05	0.91565	0.984
CHIC1	-0.05	0.919868	0.984
CKM	-0.05	0.91565	0.984
COL15A1	-0.05	0.91565	0.984
CR2	-0.05	0.91565	0.984
CTH	-0.05	0.919867	0.984
CTRB2	-0.05	0.91565	0.984
CTSW	-0.05	0.919867	0.984
CWC27	-0.05	0.91565	0.984
CYP4F2	-0.05	0.91565	0.984
DLEU7	-0.05	0.91565	0.984
EDNRB	-0.05	0.91565	0.984
EPM2AIP1	-0.05	0.91565	0.984
FAM196B	-0.05	0.91565	0.984
FANCB	-0.05	0.91565	0.984

FANCE	-0.05	0.91565	0.984
FANK1	-0.05	0.91565	0.984
FFAR1	-0.05	0.919868	0.984
FOLR1	-0.05	0.91565	0.984
FUT9	-0.05	0.91565	0.984
GABRR3	-0.05	0.91565	0.984
GACT	-0.05	0.91565	0.984
GPR146	-0.05	0.91565	0.984
GSTM1	-0.05	0.919868	0.984
GZMM	-0.05	0.919867	0.984
IGHMBP2	-0.05	0.91565	0.984
IL1RN	-0.05	0.91565	0.984
IVL	-0.05	0.919868	0.984
KANSL1L	-0.05	0.91565	0.984
KCNIP4	-0.05	0.919868	0.984
KIAA0391	-0.05	0.923893	0.984
KIAA1522	-0.05	0.919868	0.984
KLK8	-0.05	0.91565	0.984
LCE1C	-0.05	0.91565	0.984
LEPROT	-0.05	0.91565	0.984
LGALS9B	-0.05	0.91565	0.984
LILRB5	-0.05	0.919867	0.984
MAGOHB	-0.05	0.923893	0.984
MIB2	-0.05	0.91565	0.984
MKRN1	-0.05	0.91565	0.984
MMD2	-0.05	0.91565	0.984
MOV10	-0.05	0.919868	0.984
MRPL33	-0.05	0.923893	0.984
MT1F	-0.05	0.91565	0.984
NACC2	-0.05	0.91565	0.984
NBEAL2	-0.05	0.91565	0.984
NEDD9	-0.05	0.91565	0.984
NID2	-0.05	0.91565	0.984
NKX1-2	-0.05	0.91565	0.984
NRTN	-0.05	0.91565	0.984
NTF3	-0.05	0.91565	0.984
NUTF2	-0.05	0.929051	0.984
NXF2B	-0.05	0.91565	0.984
NXF5	-0.05	0.91565	0.984
NXPH4	-0.05	0.919867	0.984
OAZ1	-0.05	0.91565	0.984
OR7C2	-0.05	0.91565	0.984
OR9G1	-0.05	0.91565	0.984
P4HA3	-0.05	0.91565	0.984
PABPC4	-0.05	0.91565	0.984
PAK1	-0.05	0.919868	0.984
PDE3A	-0.05	0.91565	0.984

PLA2G2E	-0.05	0.91565	0.984
PLOD1	-0.05	0.919867	0.984
PLVAP	-0.05	0.91565	0.984
POTEE	-0.05	0.929051	0.984
PPAN-P2RY	-0.05	0.91565	0.984
PRSS21	-0.05	0.91565	0.984
RBM26	-0.05	0.919867	0.984
RBM33	-0.05	0.91565	0.984
RDM1	-0.05	0.91565	0.984
RHBDF2	-0.05	0.91565	0.984
RNASE8	-0.05	0.91565	0.984
RNF24	-0.05	0.91565	0.984
RNPC3	-0.05	0.91565	0.984
SENP2	-0.05	0.91565	0.984
SEPT4	-0.05	0.91565	0.984
SF3A2	-0.05	0.91565	0.984
SHROOM1	-0.05	0.91565	0.984
SLC25A44	-0.05	0.91565	0.984
SLC39A8	-0.05	0.91565	0.984
SLC6A11	-0.05	0.91565	0.984
SPACA6	-0.05	0.91565	0.984
STX12	-0.05	0.91565	0.984
TBC1D13	-0.05	0.91565	0.984
THAP5	-0.05	0.91565	0.984
TMSB4Y	-0.05	0.923893	0.984
TP73	-0.05	0.91565	0.984
TRAK2	-0.05	0.919867	0.984
TRAPPC10	-0.05	0.91565	0.984
TRIM8	-0.05	0.91565	0.984
TSTA3	-0.05	0.91565	0.984
UBAC2	-0.05	0.919867	0.984
UNC13D	-0.05	0.91565	0.984
WDR1	-0.05	0.91565	0.984
ZC3H8	-0.05	0.91565	0.984
ZNF211	-0.05	0.91565	0.984
ZNF254	-0.05	0.91565	0.984
ZNF516	-0.05	0.91565	0.984
ZNF773	-0.05	0.919868	0.984
ZNF776	-0.05	0.91565	0.984
ZWILCH	-0.05	0.91565	0.984
ACP6	-0.04	0.929593	0.984
ARMC9	-0.04	0.933251	0.984
ASB14	-0.04	0.929592	0.984
B4GALNT2	-0.04	0.929593	0.984
BHMT2	-0.04	0.933251	0.984
BRD3	-0.04	0.929593	0.984
C14orf132	-0.04	0.929593	0.984

C2orf53	-0.04	0.929593	0.984
C8orf31	-0.04	0.929592	0.984
C9orf50	-0.04	0.929593	0.984
CADM3	-0.04	0.929593	0.984
CCL4	-0.04	0.929593	0.984
CD163	-0.04	0.929593	0.984
CD247	-0.04	0.933251	0.984
CD8A	-0.04	0.93325	0.984
CDKL5	-0.04	0.929593	0.984
CHST14	-0.04	0.929593	0.984
CHST5	-0.04	0.929593	0.984
CHURC1	-0.04	0.933251	0.984
CLCF1	-0.04	0.929593	0.984
CLDN6	-0.04	0.929592	0.984
CLN3	-0.04	0.929592	0.984
CNTN2	-0.04	0.929593	0.984
CRELD1	-0.04	0.940821	0.984
CSAG1	-0.04	0.93325	0.984
DBNDD2	-0.04	0.933251	0.984
DCLK1	-0.04	0.929592	0.984
DHX16	-0.04	0.93325	0.984
DIO2	-0.04	0.929592	0.984
DNAJB6	-0.04	0.929593	0.984
DNHD1	-0.04	0.93325	0.984
DZIP3	-0.04	0.929593	0.984
EIF2B2	-0.04	0.929593	0.984
ENPP7	-0.04	0.929593	0.984
FAM153B	-0.04	0.929592	0.984
FAM216B	-0.04	0.929593	0.984
FAM73B	-0.04	0.933251	0.984
FOXK2	-0.04	0.933251	0.984
FUT3	-0.04	0.929592	0.984
FZD9	-0.04	0.933251	0.984
GABRB1	-0.04	0.929592	0.984
GHRH	-0.04	0.929593	0.984
GPR75	-0.04	0.929593	0.984
HEPACAM	-0.04	0.929592	0.984
HLA-DQA1	-0.04	0.929593	0.984
HYKK	-0.04	0.929593	0.984
IQCA1L	-0.04	0.93325	0.984
IQCB1	-0.04	0.929592	0.984
KCNH3	-0.04	0.929592	0.984
KCNK3	-0.04	0.929593	0.984
KRT27	-0.04	0.929592	0.984
KRTAP5-6	-0.04	0.933251	0.984
LAT	-0.04	0.933251	0.984
LGALS12	-0.04	0.929593	0.984

LGALS4	-0.04	0.929593	0.984
LHX3	-0.04	0.929593	0.984
LSM14A	-0.04	0.929592	0.984
MAP4K2	-0.04	0.929592	0.984
MBD3L2	-0.04	0.929592	0.984
MKI67	-0.04	0.93325	0.984
MORC2	-0.04	0.929593	0.984
MRAP2	-0.04	0.929592	0.984
MYOC	-0.04	0.93325	0.984
NDN	-0.04	0.929593	0.984
NFATC4	-0.04	0.929593	0.984
NR3C2	-0.04	0.933251	0.984
OR2L2	-0.04	0.929593	0.984
OR4B1	-0.04	0.929593	0.984
OR9G9	-0.04	0.929592	0.984
OTOR	-0.04	0.929593	0.984
P2RX5	-0.04	0.929593	0.984
PABPN1L	-0.04	0.93325	0.984
PAQR7	-0.04	0.929593	0.984
PCP2	-0.04	0.933251	0.984
PDCD6	-0.04	0.929593	0.984
PELI2	-0.04	0.929593	0.984
PNP	-0.04	0.929593	0.984
POLRMT	-0.04	0.929593	0.984
PPAN	-0.04	0.929592	0.984
PPIAL4C	-0.04	0.929593	0.984
PRKCD	-0.04	0.929592	0.984
PRSS50	-0.04	0.929593	0.984
PSAP	-0.04	0.93325	0.984
PSMC1	-0.04	0.929592	0.984
PTCHD1	-0.04	0.929593	0.984
PURB	-0.04	0.929592	0.984
RAB5A	-0.04	0.929592	0.984
RASSF5	-0.04	0.93325	0.984
RASSF8	-0.04	0.929593	0.984
RDH13	-0.04	0.929593	0.984
RHBDL3	-0.04	0.929592	0.984
RHOG	-0.04	0.929593	0.984
RPGRIP1	-0.04	0.929592	0.984
RS1	-0.04	0.929592	0.984
RSPH9	-0.04	0.929593	0.984
SCAMP3	-0.04	0.929593	0.984
SERPINB12	-0.04	0.929593	0.984
SERPINH1	-0.04	0.929592	0.984
SLC38A7	-0.04	0.93325	0.984
SLC39A2	-0.04	0.929592	0.984
SLX4IP	-0.04	0.929593	0.984

SMARCD2	-0.04	0.929593	0.984
SMARCD3	-0.04	0.933251	0.984
SNX19	-0.04	0.929593	0.984
SPAG11A	-0.04	0.929592	0.984
SRGAP2C	-0.04	0.944907	0.984
SSTR2	-0.04	0.929593	0.984
SSX1	-0.04	0.929592	0.984
ST8SIA6	-0.04	0.929593	0.984
STK36	-0.04	0.93325	0.984
TBC1D3G	-0.04	0.929593	0.984
TBCB	-0.04	0.93325	0.984
TEX30	-0.04	0.929592	0.984
TEX35	-0.04	0.929593	0.984
THAP9	-0.04	0.933251	0.984
TKT	-0.04	0.929593	0.984
TMEM121	-0.04	0.929593	0.984
TMEM25	-0.04	0.93325	0.984
TMEM8A	-0.04	0.93655	0.984
TNFSF15	-0.04	0.929592	0.984
TOM1L2	-0.04	0.933251	0.984
TOMM40L	-0.04	0.929593	0.984
TRAIP	-0.04	0.94082	0.984
TRPM5	-0.04	0.929593	0.984
TVP23C	-0.04	0.929593	0.984
VSTM2B	-0.04	0.929593	0.984
WDR16	-0.04	0.929593	0.984
ZBBX	-0.04	0.929592	0.984
ZNF282	-0.04	0.933251	0.984
ZNF35	-0.04	0.929592	0.984
ZNF529	-0.04	0.929593	0.984
ZNF627	-0.04	0.929593	0.984
ZNF711	-0.04	0.933251	0.984
ZYG11A	-0.04	0.933251	0.984
ACER2	-0.03	0.9436	0.984
ACSM1	-0.03	0.9436	0.984
ACTL8	-0.03	0.9436	0.984
AKAP13	-0.03	0.9436	0.984
AKTIP	-0.03	0.9436	0.984
ALDH3B2	-0.03	0.9436	0.984
ANKK1	-0.03	0.9436	0.984
ARHGAP30	-0.03	0.9436	0.984
ATG14	-0.03	0.9436	0.984
BATF2	-0.03	0.9436	0.984
C14orf28	-0.03	0.9436	0.984
C1S	-0.03	0.9436	0.984
C5orf52	-0.03	0.9436	0.984
CALCR	-0.03	0.9436	0.984

CAPZA2	-0.03	0.9436	0.984
CCDC39	-0.03	0.9436	0.984
CCDC81	-0.03	0.9436	0.984
CFD	-0.03	0.9436	0.984
CLEC2B	-0.03	0.9436	0.984
CRYBB1	-0.03	0.9436	0.984
CRYL1	-0.03	0.9436	0.984
CSNK1D	-0.03	0.9436	0.984
CTSS	-0.03	0.9436	0.984
CYBRD1	-0.03	0.9436	0.984
CYP26A1	-0.03	0.9436	0.984
DBT	-0.03	0.9436	0.984
DENND4C	-0.03	0.9436	0.984
DGCR6	-0.03	0.9436	0.984
DTHD1	-0.03	0.9436	0.984
EDN1	-0.03	0.9436	0.984
EHHADH	-0.03	0.9436	0.984
EXOSC1	-0.03	0.9436	0.984
F2	-0.03	0.94663	0.984
FABP3	-0.03	0.9436	0.984
FADS1	-0.03	0.9436	0.984
FAM178B	-0.03	0.9436	0.984
FAM188A	-0.03	0.9436	0.984
FAM20C	-0.03	0.9436	0.984
FAM229B	-0.03	0.9436	0.984
FGGY	-0.03	0.9436	0.984
FIGN	-0.03	0.9436	0.984
FKBP3	-0.03	0.946631	0.984
FRG2C	-0.03	0.9436	0.984
GFOD1	-0.03	0.9436	0.984
HIST2H2BE	-0.03	0.9436	0.984
HMX2	-0.03	0.9436	0.984
HRH2	-0.03	0.9436	0.984
IL20RB	-0.03	0.9436	0.984
IL36RN	-0.03	0.9436	0.984
IQCK	-0.03	0.9436	0.984
ISCA1	-0.03	0.94663	0.984
KCNQ3	-0.03	0.9436	0.984
KLF17	-0.03	0.9436	0.984
KLHL2	-0.03	0.9436	0.984
KLK1	-0.03	0.9436	0.984
KREMEN1	-0.03	0.9436	0.984
LLPH	-0.03	0.949174	0.984
LRRC26	-0.03	0.946631	0.984
LRRN3	-0.03	0.9436	0.984
LSM2	-0.03	0.94663	0.984
LY6G5C	-0.03	0.94663	0.984

MARVELD3	-0.03	0.94663	0.984
MAT2A	-0.03	0.955927	0.984
MICB	-0.03	0.9436	0.984
MINOS1	-0.03	0.9436	0.984
MMP28	-0.03	0.946631	0.984
MTRNR2L7	-0.03	0.949174	0.984
NME8	-0.03	0.9436	0.984
OR13C2	-0.03	0.94663	0.984
OR2AE1	-0.03	0.9436	0.984
OR8S1	-0.03	0.949173	0.984
OR9A2	-0.03	0.9436	0.984
OVOL3	-0.03	0.9436	0.984
P2RY11	-0.03	0.9436	0.984
P3H3	-0.03	0.9436	0.984
P4HA1	-0.03	0.9436	0.984
PADI4	-0.03	0.9436	0.984
PAEP	-0.03	0.9436	0.984
PAPPA2	-0.03	0.9436	0.984
PARP15	-0.03	0.9436	0.984
PCSK6	-0.03	0.9436	0.984
PDCD2L	-0.03	0.9436	0.984
PHYH	-0.03	0.9436	0.984
PIGV	-0.03	0.9436	0.984
PKDREJ	-0.03	0.9436	0.984
PLSCR1	-0.03	0.9436	0.984
PML	-0.03	0.9436	0.984
PNO1	-0.03	0.95267	0.984
PPARGC1B	-0.03	0.94663	0.984
PPIAL4A	-0.03	0.9436	0.984
PPP2R5D	-0.03	0.9436	0.984
PTCHD4	-0.03	0.9436	0.984
PTK6	-0.03	0.9436	0.984
RANBP3L	-0.03	0.9436	0.984
RBMS3	-0.03	0.9436	0.984
RCN2	-0.03	0.9436	0.984
RFC2	-0.03	0.946631	0.984
RNF149	-0.03	0.9436	0.984
RNF41	-0.03	0.9436	0.984
RNF43	-0.03	0.9436	0.984
RNF44	-0.03	0.946631	0.984
RPLP1	-0.03	0.9436	0.984
RPS11	-0.03	0.95267	0.984
RUNDC3B	-0.03	0.9436	0.984
RUVBL1	-0.03	0.955927	0.984
SAMD8	-0.03	0.9436	0.984
SEMA6A	-0.03	0.9436	0.984
SERINC5	-0.03	0.9436	0.984

SERPINI2	-0.03	0.9436	0.984
SH3BP4	-0.03	0.9436	0.984
SIRT4	-0.03	0.9436	0.984
SLC24A4	-0.03	0.9436	0.984
SLC2A8	-0.03	0.9436	0.984
SLC6A12	-0.03	0.946631	0.984
SNRNP35	-0.03	0.9436	0.984
SPDYE5	-0.03	0.946631	0.984
SPRR2D	-0.03	0.9436	0.984
SRGAP2B	-0.03	0.946631	0.984
STAB2	-0.03	0.9436	0.984
STK31	-0.03	0.9436	0.984
TBC1D8B	-0.03	0.94663	0.984
TBCC	-0.03	0.949174	0.984
TCEANC	-0.03	0.9436	0.984
TEX14	-0.03	0.9436	0.984
TGOLN2	-0.03	0.9436	0.984
TMEM105	-0.03	0.94663	0.984
TOX2	-0.03	0.9436	0.984
TRIM49D1	-0.03	0.9436	0.984
TRIM49D2	-0.03	0.9436	0.984
TTC22	-0.03	0.9436	0.984
TTC9B	-0.03	0.9436	0.984
UNC80	-0.03	0.9436	0.984
VIPR2	-0.03	0.9436	0.984
WBSCR28	-0.03	0.9436	0.984
WNT10A	-0.03	0.9436	0.984
XAGE1A	-0.03	0.94663	0.984
XAGE1C	-0.03	0.94663	0.984
XAGE1D	-0.03	0.94663	0.984
XXYL1	-0.03	0.94663	0.984
ZC3H12B	-0.03	0.9436	0.984
ZNF142	-0.03	0.9436	0.984
ZNF195	-0.03	0.9436	0.984
ZNF385B	-0.03	0.9436	0.984
ZNF579	-0.03	0.946631	0.984
ZNF7	-0.03	0.94663	0.984
ZNF780A	-0.03	0.9436	0.984
ZNF805	-0.03	0.9436	0.984
ZSCAN5A	-0.03	0.9436	0.984
ABCG5	-0.02	0.959907	0.985
ALLC	-0.02	0.957708	0.984
ANGEL1	-0.02	0.957708	0.984
ANKS1B	-0.02	0.957708	0.984
ARHGEF1	-0.02	0.957708	0.984
ATP5E	-0.02	0.961783	0.986
AXDND1	-0.02	0.957708	0.984

BCDIN3D	-0.02	0.957708	0.984
C11orf49	-0.02	0.957708	0.984
C11orf96	-0.02	0.969814	0.986
C12orf77	-0.02	0.957708	0.984
C19orf44	-0.02	0.957708	0.984
C1orf106	-0.02	0.961782	0.986
C2CD4C	-0.02	0.957708	0.984
C6orf1	-0.02	0.957708	0.984
C6orf25	-0.02	0.957708	0.984
CA8	-0.02	0.959906	0.985
CALCB	-0.02	0.957708	0.984
CBX5	-0.02	0.957708	0.984
CCDC85C	-0.02	0.957708	0.984
CCNE1	-0.02	0.957708	0.984
CDC42EP3	-0.02	0.957708	0.984
CEP170	-0.02	0.957708	0.984
CES4A	-0.02	0.957708	0.984
CHCHD5	-0.02	0.957708	0.984
CLSTN2	-0.02	0.957708	0.984
COPS8	-0.02	0.957708	0.984
CUTA	-0.02	0.957708	0.984
CYP24A1	-0.02	0.957708	0.984
DAZL	-0.02	0.957708	0.984
DBF4B	-0.02	0.957708	0.984
DCBLD1	-0.02	0.957708	0.984
DERL3	-0.02	0.957708	0.984
DNAJB12	-0.02	0.957708	0.984
DOK5	-0.02	0.959906	0.985
ECHDC3	-0.02	0.959906	0.985
EDA2R	-0.02	0.957708	0.984
EEF1D	-0.02	0.957708	0.984
EMCN	-0.02	0.957708	0.984
F2RL1	-0.02	0.957708	0.984
F2RL2	-0.02	0.957708	0.984
FAM162B	-0.02	0.957708	0.984
FGF17	-0.02	0.957708	0.984
FHL1	-0.02	0.957708	0.984
FXN	-0.02	0.957708	0.984
G2E3	-0.02	0.957708	0.984
GABRG3	-0.02	0.957708	0.984
GCLC	-0.02	0.957708	0.984
GDNF	-0.02	0.957708	0.984
GPAT2	-0.02	0.957708	0.984
GPATCH11	-0.02	0.957708	0.984
HNF4A	-0.02	0.957708	0.984
HOOK3	-0.02	0.957708	0.984
IL17RE	-0.02	0.959907	0.985

IL1RAPL1	-0.02	0.957708	0.984
IL37	-0.02	0.957708	0.984
INTU	-0.02	0.957708	0.984
IPO5	-0.02	0.957708	0.984
JUN	-0.02	0.957708	0.984
KIAA1107	-0.02	0.957708	0.984
KRT33A	-0.02	0.957708	0.984
KRT6C	-0.02	0.957708	0.984
KRTAP19-7	-0.02	0.957708	0.984
KRTAP20-3	-0.02	0.957708	0.984
LEPRE1	-0.02	0.957708	0.984
LILRB2	-0.02	0.959907	0.985
LMX1B	-0.02	0.959907	0.985
LOC403312	-0.02	0.959907	0.985
MAB21L2	-0.02	0.957708	0.984
MAP2K6	-0.02	0.959906	0.985
MAP3K7CL	-0.02	0.957708	0.984
MASP2	-0.02	0.957708	0.984
MBD3L4	-0.02	0.957708	0.984
MCHR2	-0.02	0.957708	0.984
MED18	-0.02	0.957708	0.984
MFSD2B	-0.02	0.957708	0.984
MLC1	-0.02	0.957708	0.984
MLXIPL	-0.02	0.957708	0.984
MOBP	-0.02	0.957708	0.984
MRPL52	-0.02	0.957708	0.984
MYD88	-0.02	0.959907	0.985
MYO1D	-0.02	0.957708	0.984
NEU4	-0.02	0.957708	0.984
NFKBIZ	-0.02	0.957708	0.984
NPB	-0.02	0.957708	0.984
NPEPL1	-0.02	0.957708	0.984
NRG1	-0.02	0.957708	0.984
OSBPL9	-0.02	0.957708	0.984
PCDHGC4	-0.02	0.957708	0.984
PCYT1B	-0.02	0.957708	0.984
PDCD7	-0.02	0.957708	0.984
PDE6C	-0.02	0.957708	0.984
PGK2	-0.02	0.957708	0.984
PLEK	-0.02	0.957708	0.984
POU2F1	-0.02	0.961783	0.986
PRKAG3	-0.02	0.957708	0.984
PROCA1	-0.02	0.957708	0.984
PROSER1	-0.02	0.959907	0.985
RNASE2	-0.02	0.957708	0.984
RNF14	-0.02	0.957708	0.984
RPAP2	-0.02	0.957708	0.984

RPLP0	-0.02	0.957708	0.984
SAMSN1	-0.02	0.957708	0.984
SCRN2	-0.02	0.957708	0.984
SH3GL3	-0.02	0.957708	0.984
SLC16A12	-0.02	0.957708	0.984
SLC26A3	-0.02	0.957708	0.984
SLC6A3	-0.02	0.959907	0.985
SMIM8	-0.02	0.957708	0.984
SPINT3	-0.02	0.957708	0.984
STK38L	-0.02	0.957708	0.984
SUPT20HL2	-0.02	0.957708	0.984
TAMM41	-0.02	0.957708	0.984
TEKT1	-0.02	0.957708	0.984
THG1L	-0.02	0.957708	0.984
TMEM194B	-0.02	0.957708	0.984
TMEM201	-0.02	0.957708	0.984
TMEM233	-0.02	0.957708	0.984
TMEM238	-0.02	0.957708	0.984
TNNC2	-0.02	0.959907	0.985
TP53TG3	-0.02	0.957708	0.984
TP53TG3B	-0.02	0.957708	0.984
TP53TG3C	-0.02	0.957708	0.984
TRAF3IP3	-0.02	0.957708	0.984
TRIM23	-0.02	0.957708	0.984
TRIM43B	-0.02	0.957708	0.984
TRIM50	-0.02	0.957708	0.984
TSPEAR	-0.02	0.957708	0.984
TSR2	-0.02	0.959907	0.985
TTC24	-0.02	0.957708	0.984
UBAP1	-0.02	0.957708	0.984
UNC5A	-0.02	0.957708	0.984
USP13	-0.02	0.957708	0.984
VAR5	-0.02	0.966966	0.986
ZNF493	-0.02	0.957708	0.984
ZNF564	-0.02	0.957708	0.984
ZSCAN10	-0.02	0.957708	0.984
ACOT4	-0.01	0.971788	0.986
AFMID	-0.01	0.971789	0.986
AGPAT4	-0.01	0.971788	0.986
AKAP10	-0.01	0.971789	0.986
ALDH1L2	-0.01	0.971789	0.986
ANP32C	-0.01	0.97794	0.986
APOLD1	-0.01	0.971789	0.986
ARHGAP12	-0.01	0.971788	0.986
ASIC5	-0.01	0.971788	0.986
ATAD5	-0.01	0.973299	0.986
C11orf53	-0.01	0.973299	0.986

C12orf44	-0.01	0.971788	0.986
C2CD4D	-0.01	0.971788	0.986
C5orf22	-0.01	0.971788	0.986
CD1D	-0.01	0.971788	0.986
CDK9	-0.01	0.974591	0.986
CDY1	-0.01	0.971789	0.986
CDY1B	-0.01	0.971789	0.986
CFAP54	-0.01	0.971788	0.986
CKLF	-0.01	0.971789	0.986
CLEC18C	-0.01	0.971789	0.986
CLEC19A	-0.01	0.971788	0.986
COL6A6	-0.01	0.971789	0.986
CPNE3	-0.01	0.971788	0.986
CPXM1	-0.01	0.971788	0.986
CYB561	-0.01	0.971788	0.986
DEFB4B	-0.01	0.971788	0.986
DGCR14	-0.01	0.973299	0.986
DMD	-0.01	0.971788	0.986
DSC1	-0.01	0.971789	0.986
DSG1	-0.01	0.971788	0.986
FAM111A	-0.01	0.971789	0.986
FAM134A	-0.01	0.971789	0.986
FAM171B	-0.01	0.971788	0.986
FN1	-0.01	0.973299	0.986
FSIP1	-0.01	0.971789	0.986
GIPC2	-0.01	0.971788	0.986
GNAO1	-0.01	0.971788	0.986
GNG10	-0.01	0.971788	0.986
GOLGA8K	-0.01	0.971789	0.986
GRHPR	-0.01	0.971788	0.986
GSTA5	-0.01	0.971788	0.986
HTRA1	-0.01	0.971788	0.986
HYLS1	-0.01	0.971788	0.986
IL17F	-0.01	0.971789	0.986
IPO4	-0.01	0.973298	0.986
KCTD21	-0.01	0.971788	0.986
KIF25	-0.01	0.971789	0.986
KRTAP4-12	-0.01	0.971788	0.986
L1CAM	-0.01	0.971789	0.986
LCE3C	-0.01	0.971789	0.986
LCN12	-0.01	0.973298	0.986
LCN15	-0.01	0.971789	0.986
LMO1	-0.01	0.971788	0.986
LRRC24	-0.01	0.971788	0.986
LRRC8E	-0.01	0.971788	0.986
LSM3	-0.01	0.971789	0.986
LSM5	-0.01	0.973299	0.986

LYRM7	-0.01	0.971789	0.986
MAGEE2	-0.01	0.973299	0.986
MAP3K6	-0.01	0.971788	0.986
MAP7	-0.01	0.971788	0.986
MCAT	-0.01	0.971789	0.986
MIA2	-0.01	0.971789	0.986
MISP	-0.01	0.971789	0.986
MORN5	-0.01	0.971789	0.986
NBPF12	-0.01	0.981713	0.986
NME2	-0.01	0.971789	0.986
NRN1L	-0.01	0.971788	0.986
NT5E	-0.01	0.971788	0.986
ODF3B	-0.01	0.971788	0.986
OR4N2	-0.01	0.976372	0.986
PDGFB	-0.01	0.971789	0.986
PHOSPHO1	-0.01	0.971788	0.986
PIGM	-0.01	0.971789	0.986
POLK	-0.01	0.971788	0.986
PPAPDC1A	-0.01	0.971789	0.986
PPP1R27	-0.01	0.971789	0.986
PREX2	-0.01	0.971788	0.986
RAB11FIP4	-0.01	0.971789	0.986
RAPGEF2	-0.01	0.971789	0.986
RFNG	-0.01	0.971789	0.986
RGPD5	-0.01	0.971788	0.986
RGPD6	-0.01	0.971788	0.986
RHOU	-0.01	0.971789	0.986
RNF19B	-0.01	0.971788	0.986
RPL7	-0.01	0.973299	0.986
RRAD	-0.01	0.971789	0.986
RSL1D1	-0.01	0.971788	0.986
SDHAF2	-0.01	0.973299	0.986
SIM2	-0.01	0.971788	0.986
SLC22A9	-0.01	0.971789	0.986
SLC4A4	-0.01	0.971789	0.986
SLC9B1	-0.01	0.971789	0.986
SPG20	-0.01	0.973299	0.986
SPINK8	-0.01	0.971788	0.986
SPINK9	-0.01	0.971788	0.986
STK17A	-0.01	0.971788	0.986
TBC1D10C	-0.01	0.971789	0.986
TBPL2	-0.01	0.971789	0.986
TBX15	-0.01	0.971788	0.986
THSD7A	-0.01	0.971788	0.986
TIGD7	-0.01	0.971788	0.986
TMEM249	-0.01	0.971788	0.986
TMEM63B	-0.01	0.973298	0.986

TMOD4	-0.01	0.971788	0.986
TPP2	-0.01	0.973299	0.986
TTC18	-0.01	0.971788	0.986
TTI1	-0.01	0.973299	0.986
TYMS	-0.01	0.974591	0.986
UBE2Q1	-0.01	0.973299	0.986
UTS2R	-0.01	0.971788	0.986
ZNF260	-0.01	0.971789	0.986
ZNF597	-0.01	0.971788	0.986
ZNF790	-0.01	0.971788	0.986
ZNF90	-0.01	0.971789	0.986
ZSCAN2	-0.01	0.971789	0.986
ABCB4	0	0.985881	0.986
ACCS	0	0.986618	0.986
ACSF2	0	0.98588	0.987
ACTN1	0	0.98588	0.987
ADAMTSL1	0	0.985881	0.986
AIM2	0	0.985881	0.986
ALDH3A1	0	0.985881	0.987
ALDH8A1	0	0.98588	0.987
ALOXE3	0	0.985881	0.987
ANHX	0	0.98588	0.986
ANPEP	0	0.985881	0.986
ANXA11	0	0.98588	0.987
ANXA9	0	0.985881	0.987
AP1AR	0	0.985881	0.987
APEX1	0	0.985881	0.986
APOA1BP	0	0.98588	0.987
AQP6	0	0.985881	0.986
AQPEP	0	0.985881	0.986
ARC	0	0.985881	0.986
ARNT2	0	0.985881	0.987
ASB10	0	0.985881	0.986
ATP5S	0	0.985881	0.987
ATP6V0C	0	0.989879	0.989
BACH1	0	0.985881	0.987
BIN3	0	0.985881	0.986
C14orf166B	0	0.98588	0.986
C16orf92	0	0.985881	0.987
C17orf104	0	0.985881	0.987
C17orf64	0	0.985881	0.986
C1QC	0	0.986619	0.987
C1QL2	0	0.98588	0.987
C21orf2	0	0.98588	0.986
C5orf46	0	0.98588	0.986
CA2	0	0.985881	0.987
CA9	0	0.986618	0.986

CACNA2D2	0	0.985881	0.987
CBS	0	0.98588	0.987
CCDC114	0	0.985881	0.986
CCDC182	0	0.986618	0.987
CCDC40	0	0.986619	0.986
CCDC85A	0	0.98588	0.987
CCDC91	0	0.98588	0.987
CCR8	0	0.98588	0.987
CDK8	0	0.98588	0.987
CENPI	0	0.985881	0.986
CERS5	0	0.98588	0.986
CETN3	0	0.985881	0.987
CGB7	0	0.985881	0.987
CHEK1	0	0.987253	0.987
CHTF18	0	0.98588	0.986
CLC	0	0.985881	0.987
CMTM3	0	0.98588	0.987
CNP	0	0.985881	0.986
CPXM2	0	0.985881	0.986
CSNK1E	0	0.986618	0.986
DAP3	0	0.985881	0.987
DBN1	0	0.985881	0.987
DMXL2	0	0.985881	0.986
DOCK2	0	0.985881	0.986
DRD5	0	0.985881	0.987
DVL1	0	0.98588	0.987
E2F7	0	0.985881	0.986
EBF2	0	0.985881	0.986
EID2B	0	0.986619	0.987
EMC7	0	0.986619	0.987
EMD	0	0.98588	0.987
EMX1	0	0.986618	0.987
ENAH	0	0.987253	0.987
EP300	0	0.987253	0.987
ERP27	0	0.985881	0.987
ERV3-1	0	0.985881	0.987
FAM212B	0	0.985881	0.987
FCRL6	0	0.98588	0.987
FERMT1	0	0.98588	0.987
FEZ2	0	0.986619	0.986
FGF22	0	0.98588	0.987
FHOD3	0	0.986618	0.986
FRAS1	0	0.986618	0.987
FSTL4	0	0.98588	0.986
GGA1	0	0.985881	0.986
GIMAP1	0	0.986618	0.987
GORAB	0	0.986618	0.987

GP9	0	0.985881	0.986
GPR112	0	0.985881	0.987
GPR132	0	0.988171	0.988
GPR65	0	0.98588	0.986
GRID2	0	0.985881	0.986
GYS2	0	0.98588	0.987
H2BFWT	0	0.985881	0.986
HECTD4	0	0.985881	0.986
HES4	0	0.98588	0.986
HEYL	0	0.985881	0.987
HGSNAT	0	0.985881	0.986
HIST1H1C	0	0.98588	0.987
HIST1H1E	0	0.985881	0.986
HIST1H2AG	0	0.987253	0.987
HIST4H4	0	0.985881	0.986
HOXD9	0	0.986618	0.987
HRNR	0	0.986618	0.987
HTR1E	0	0.986618	0.986
IFNA8	0	0.985881	0.987
INPP5K	0	0.985881	0.987
IP6K3	0	0.985881	0.986
ITGB3BP	0	0.98588	0.986
KNTC1	0	0.98588	0.986
KRTAP12-2	0	0.985881	0.987
KY	0	0.985881	0.986
LCE3A	0	0.98588	0.986
LENEP	0	0.98588	0.986
MADD	0	0.98588	0.987
MAGEH1	0	0.985881	0.986
MAST1	0	0.98588	0.986
MBD3L5	0	0.985881	0.987
MBOAT2	0	0.985881	0.987
MED8	0	0.985881	0.986
METRN	0	0.985881	0.986
MKRN3	0	0.986618	0.987
MMP16	0	0.98588	0.987
MORN4	0	0.98588	0.986
MS4A14	0	0.985881	0.987
MSMO1	0	0.985881	0.986
MST1	0	0.985881	0.987
MSX2	0	0.985881	0.987
MUC1	0	0.986618	0.986
MUC17	0	0.985881	0.987
MURC	0	0.98588	0.986
NAGK	0	0.98588	0.987
NAPG	0	0.98588	0.987
NATD1	0	0.988954	0.989

NCK2	0	0.985881	0.987
NDUFV3	0	0.985881	0.987
NOTCH2NL	0	0.985881	0.986
NPAP1	0	0.986618	0.987
NPHS2	0	0.98588	0.986
NUP107	0	0.986618	0.987
NXPE2	0	0.985881	0.987
ODF3L1	0	0.98588	0.986
OGFRL1	0	0.98588	0.987
OR10G7	0	0.985881	0.987
OR1S1	0	0.98588	0.987
OR4L1	0	0.98588	0.987
OR51I1	0	0.98588	0.986
OR6V1	0	0.98588	0.986
OSBPL8	0	0.98588	0.986
OTUD1	0	0.98588	0.986
OVOL2	0	0.985881	0.987
PCDHB10	0	0.986618	0.986
PHGDH	0	0.98588	0.986
PIP4K2C	0	0.98588	0.987
PKP4	0	0.985881	0.986
PLSCR2	0	0.985881	0.987
PLSCR5	0	0.985881	0.986
PNMA5	0	0.98588	0.986
PRAMEF11	0	0.985881	0.987
PRKCSH	0	0.985881	0.986
PRKD1	0	0.986619	0.986
PRR20A	0	0.985881	0.986
PRR20B	0	0.98588	0.986
PRR20C	0	0.98588	0.986
PRR20D	0	0.98588	0.986
PRR20E	0	0.985881	0.986
PTPRN2	0	0.985881	0.987
PTPRR	0	0.98588	0.986
PUS7	0	0.986618	0.986
PVALB	0	0.98588	0.987
PYHIN1	0	0.98588	0.986
QPRT	0	0.98588	0.987
QRICH2	0	0.985881	0.986
RAB11FIP2	0	0.985881	0.987
RAB37	0	0.98588	0.986
RAB43	0	0.985881	0.986
RAC1	0	0.985881	0.987
RAD1	0	0.985881	0.986
RECQL5	0	0.985881	0.987
RERGL	0	0.985881	0.986
RHOJ	0	0.985881	0.986

RNF115	0	0.985881	0.986
RNF208	0	0.985881	0.987
RNF25	0	0.98588	0.987
RPL26	0	0.986618	0.986
RPS19BP1	0	0.98588	0.986
RYR1	0	0.985881	0.986
SCARB1	0	0.986618	0.986
SCRN1	0	0.985881	0.987
SEPT10	0	0.985881	0.987
SERPINE1	0	0.985881	0.986
SLC23A1	0	0.986619	0.986
SLC44A3	0	0.985881	0.987
SLC50A1	0	0.985881	0.986
SLC9A3R1	0	0.98588	0.986
SPAG8	0	0.985881	0.987
SPANXN2	0	0.98588	0.987
SPIN3	0	0.98588	0.986
SPINT2	0	0.985881	0.987
SRXN1	0	0.985881	0.986
ST3GAL3	0	0.985881	0.987
STRA6	0	0.985881	0.987
SUN3	0	0.985881	0.986
SWSAP1	0	0.985881	0.986
SYPL2	0	0.985881	0.986
TDRD7	0	0.985881	0.987
TESK2	0	0.986619	0.986
TGM5	0	0.985881	0.986
THSD1	0	0.985881	0.986
TICAM2	0	0.985881	0.986
TIMM17B	0	0.98588	0.986
TIMP2	0	0.985881	0.986
TLE2	0	0.985881	0.987
TMEM39A	0	0.985881	0.987
TMEM45A	0	0.985881	0.987
TOR1AIP1	0	0.986618	0.987
TPD52L2	0	0.985881	0.987
TPP1	0	0.985881	0.987
TRABD	0	0.98588	0.987
TRIM66	0	0.98588	0.987
TSGA10IP	0	0.985881	0.986
TUFT1	0	0.985881	0.987
TVP23C-CD	0	0.987253	0.987
TXNDC8	0	0.98588	0.987
URB2	0	0.98588	0.986
USP33	0	0.985881	0.987
USP43	0	0.985881	0.987
UXS1	0	0.98588	0.987

VAPB	0	0.985881	0.986
WDR92	0	0.98588	0.986
WNT2	0	0.986618	0.986
YWHAB	0	0.98588	0.986
ZBTB21	0	0.986618	0.986
ZFAND6	0	0.985881	0.986
ZFYVE27	0	0.985881	0.987
ZMYND12	0	0.98588	0.986
ZNF16	0	0.985881	0.987
ZNF230	0	0.98588	0.986
ZNF57	0	0.98588	0.987
ZNF585B	0	0.986618	0.987
ZNF587B	0	0.986619	0.987
ZNF705A	0	0.985881	0.986
ZNF705G	0	0.98588	0.987
ZNF81	0	0.98588	0.986
ZZEF1	0	0.985881	0.986
AATF	0.01	0.974591	0.986
ABHD16B	0.01	0.973299	0.986
AGBL2	0.01	0.971788	0.986
AKNA	0.01	0.971789	0.986
ARFIP1	0.01	0.971789	0.986
ARMC10	0.01	0.971789	0.986
BCL2L10	0.01	0.971788	0.986
BRAP	0.01	0.973299	0.986
C16orf59	0.01	0.971788	0.986
C17orf53	0.01	0.971788	0.986
C20orf196	0.01	0.971788	0.986
C2orf88	0.01	0.971789	0.986
C9orf91	0.01	0.971789	0.986
CALHM3	0.01	0.971789	0.986
CAMK2N1	0.01	0.971788	0.986
CCDC122	0.01	0.974591	0.986
CCDC69	0.01	0.971789	0.986
CD63	0.01	0.971788	0.986
CDK6	0.01	0.971788	0.986
CEACAM7	0.01	0.971789	0.986
CIAPIN1	0.01	0.971788	0.986
CIZ1	0.01	0.971788	0.986
CLDN19	0.01	0.971788	0.986
CLEC4F	0.01	0.971789	0.986
CLIC3	0.01	0.971788	0.986
COPS7A	0.01	0.971789	0.986
CORO1B	0.01	0.971789	0.986
COX7A2L	0.01	0.971789	0.986
CTBP2	0.01	0.973299	0.986
DCDC1	0.01	0.971788	0.986

DDN	0.01	0.971788	0.986
DDR1	0.01	0.973298	0.986
DDX56	0.01	0.971788	0.986
DOCK8	0.01	0.973298	0.986
DTWD1	0.01	0.971788	0.986
EBP	0.01	0.971788	0.986
ELMO1	0.01	0.971788	0.986
EVI5	0.01	0.971789	0.986
FAM32A	0.01	0.973299	0.986
FBXL19	0.01	0.973299	0.986
FUS	0.01	0.971788	0.986
FZD8	0.01	0.971788	0.986
GJB7	0.01	0.971788	0.986
GLRA1	0.01	0.971789	0.986
GNAT3	0.01	0.971789	0.986
GPR156	0.01	0.971788	0.986
GRIFIN	0.01	0.979866	0.987
GSTT2	0.01	0.971788	0.986
HIST1H2BN	0.01	0.974591	0.986
HS3ST6	0.01	0.973299	0.986
HSDL1	0.01	0.971788	0.986
HTRA4	0.01	0.971788	0.986
ICAM1	0.01	0.971789	0.986
IFFO1	0.01	0.971789	0.986
KLHL29	0.01	0.971788	0.986
KPNA5	0.01	0.971789	0.986
KTN1	0.01	0.971789	0.986
LAMC3	0.01	0.971789	0.986
LIN7C	0.01	0.971789	0.986
LIPE	0.01	0.971788	0.986
LPPR1	0.01	0.971788	0.986
LRCH2	0.01	0.971789	0.986
LY75	0.01	0.971789	0.986
LY75-CD302	0.01	0.971789	0.986
MAG	0.01	0.971789	0.986
MAP3K10	0.01	0.971788	0.986
METTL21C	0.01	0.971789	0.986
MMP15	0.01	0.971789	0.986
MS4A13	0.01	0.981713	0.987
MTA1	0.01	0.973299	0.986
NEFM	0.01	0.973299	0.986
NPW	0.01	0.971789	0.986
OPRL1	0.01	0.971789	0.986
OR4S1	0.01	0.971788	0.986
OXNAD1	0.01	0.971788	0.986
PCYOX1L	0.01	0.971789	0.986
PLEKHA5	0.01	0.971788	0.986

POP4	0.01	0.973299	0.986
PTPLAD2	0.01	0.971788	0.986
RALGAPA1	0.01	0.971788	0.986
RBBP8NL	0.01	0.971788	0.986
RNPEPL1	0.01	0.973299	0.986
RPL10L	0.01	0.971789	0.986
RRAGA	0.01	0.973299	0.986
RTP2	0.01	0.971788	0.986
S100A8	0.01	0.971788	0.986
SAP30BP	0.01	0.974591	0.986
SBSN	0.01	0.973299	0.986
SCOC	0.01	0.971789	0.986
SERPINA4	0.01	0.971789	0.986
SMARCAD1	0.01	0.971789	0.986
SMARCD1	0.01	0.971788	0.986
SPRR2E	0.01	0.971789	0.986
STK33	0.01	0.973298	0.986
TBRG4	0.01	0.973299	0.986
TECR	0.01	0.971788	0.986
THYN1	0.01	0.971789	0.986
TMEM170B	0.01	0.971789	0.986
TMEM177	0.01	0.971788	0.986
TMEM251	0.01	0.971789	0.986
TMEM5	0.01	0.971789	0.986
TMEM81	0.01	0.971788	0.986
TNFAIP1	0.01	0.971788	0.986
TSPO2	0.01	0.971788	0.986
TTC26	0.01	0.971789	0.986
TWF1	0.01	0.971788	0.986
TXNDC16	0.01	0.971788	0.986
UBAC1	0.01	0.971788	0.986
ZDHHC11	0.01	0.971788	0.986
ZNF134	0.01	0.971788	0.986
ZNF200	0.01	0.971788	0.986
ZNF214	0.01	0.971789	0.986
ZNF433	0.01	0.971789	0.986
ZNF492	0.01	0.971788	0.986
ZNF532	0.01	0.971789	0.986
ZNF598	0.01	0.971789	0.986
AAGAB	0.02	0.957708	0.984
AANAT	0.02	0.957708	0.984
ABCB1	0.02	0.957708	0.984
ACADL	0.02	0.957708	0.984
ADAMTS18	0.02	0.957708	0.984
ADCY2	0.02	0.957708	0.984
ANKRD54	0.02	0.957708	0.984
AP3B2	0.02	0.957708	0.984

ATP10D	0.02	0.957708	0.984
ATP5B	0.02	0.957708	0.984
BLOC1S5	0.02	0.957708	0.984
BMP8A	0.02	0.957708	0.984
BORCS8	0.02	0.959907	0.984
C11orf88	0.02	0.957708	0.984
C12orf29	0.02	0.957708	0.984
C1QTNF2	0.02	0.957708	0.984
C20orf27	0.02	0.957708	0.984
C7orf72	0.02	0.957708	0.984
C8orf76	0.02	0.957708	0.984
CA7	0.02	0.957708	0.984
CALCOCO1	0.02	0.957708	0.984
CASC1	0.02	0.957708	0.984
CBWD2	0.02	0.957708	0.984
CBWD5	0.02	0.957708	0.984
CDH7	0.02	0.957708	0.984
CHIA	0.02	0.957708	0.984
CLDN8	0.02	0.957708	0.984
CLEC12B	0.02	0.957708	0.984
CNGA2	0.02	0.957708	0.984
EPHA10	0.02	0.957708	0.984
FAM21B	0.02	0.959907	0.984
FAM49A	0.02	0.957708	0.984
FBXL20	0.02	0.957708	0.984
FBXO16	0.02	0.957708	0.984
FBXO30	0.02	0.957708	0.984
FOXD4L6	0.02	0.957708	0.984
GCGR	0.02	0.957708	0.984
GGT5	0.02	0.957708	0.984
GLA	0.02	0.957708	0.984
GNA15	0.02	0.957708	0.984
GPR179	0.02	0.959907	0.984
HCN1	0.02	0.959907	0.984
HHIPL1	0.02	0.957708	0.984
HLA-DMB	0.02	0.957708	0.984
HTR2B	0.02	0.957708	0.984
IFIT5	0.02	0.957708	0.984
ITIH4	0.02	0.957708	0.984
KCNA7	0.02	0.957708	0.984
KRT10	0.02	0.957708	0.984
KRT6A	0.02	0.957708	0.984
KRTAP4-9	0.02	0.957708	0.984
LCE3B	0.02	0.957708	0.984
LINGO4	0.02	0.957708	0.984
LRRC16A	0.02	0.959907	0.984
MED30	0.02	0.957708	0.984

MEF2B	0.02	0.959907	0.984
MFF	0.02	0.957708	0.984
MOCS2	0.02	0.957708	0.984
MPP1	0.02	0.959906	0.984
MPZL3	0.02	0.957708	0.984
MTCH1	0.02	0.957708	0.984
MYCN	0.02	0.957708	0.984
MYPN	0.02	0.959906	0.984
NECAB1	0.02	0.957708	0.984
NFYA	0.02	0.961782	0.985
NIPAL4	0.02	0.957708	0.984
NOP16	0.02	0.959907	0.984
NPR3	0.02	0.957708	0.984
OBSL1	0.02	0.961782	0.985
OPALIN	0.02	0.957708	0.984
OSBP2	0.02	0.959907	0.984
P2RX3	0.02	0.957708	0.984
PANX3	0.02	0.957708	0.984
PCDH7	0.02	0.957708	0.984
PDE6D	0.02	0.957708	0.984
PEG3	0.02	0.957708	0.984
PIH1D2	0.02	0.957708	0.984
PIK3CA	0.02	0.957708	0.984
PJA1	0.02	0.957708	0.984
PKM	0.02	0.957708	0.984
PLEKHG4B	0.02	0.957708	0.984
PPAPDC3	0.02	0.957708	0.984
PRDX5	0.02	0.957708	0.984
PTPN18	0.02	0.957708	0.984
RCL1	0.02	0.959907	0.984
RCOR1	0.02	0.957708	0.984
RELA	0.02	0.957708	0.984
RFTN1	0.02	0.957708	0.984
ROBO3	0.02	0.957708	0.984
RPA2	0.02	0.957708	0.984
RPS14	0.02	0.961782	0.985
RTF1	0.02	0.959907	0.984
SLAIN1	0.02	0.959907	0.984
SLC39A3	0.02	0.957708	0.984
SLC5A1	0.02	0.959907	0.984
SLFN14	0.02	0.957708	0.984
SLITRK6	0.02	0.957708	0.984
SMAD3	0.02	0.957708	0.984
SNX30	0.02	0.957708	0.984
SPESP1	0.02	0.957708	0.984
SUPT20H	0.02	0.959906	0.984
SUPT4H1	0.02	0.957708	0.984

SYCE3	0.02	0.957708	0.984
TBX18	0.02	0.957708	0.984
TCF7L1	0.02	0.957708	0.984
TMEM141	0.02	0.957708	0.984
TMEM18	0.02	0.957708	0.984
TMPRSS5	0.02	0.959907	0.984
TOP3B	0.02	0.957708	0.984
TRIM36	0.02	0.957708	0.984
TSC22D1	0.02	0.957708	0.984
TSR1	0.02	0.957708	0.984
VSTM1	0.02	0.957708	0.984
WDR17	0.02	0.957708	0.984
XRCC6	0.02	0.957708	0.984
XRN2	0.02	0.964588	0.986
ZC3H12A	0.02	0.957708	0.984
ZHX3	0.02	0.959907	0.984
ZNF146	0.02	0.957708	0.984
ZNF474	0.02	0.957708	0.984
ZNF577	0.02	0.957708	0.984
ZNF784	0.02	0.961782	0.985
ZNF835	0.02	0.959907	0.984
ZNFX1	0.02	0.959907	0.984
ZNRD1	0.02	0.957708	0.984
ZSCAN25	0.02	0.959906	0.984
AADAC	0.03	0.9436	0.983
ABCG2	0.03	0.946631	0.983
ACVRL1	0.03	0.9436	0.983
AGMO	0.03	0.9436	0.983
ANAPC16	0.03	0.9436	0.983
APOL5	0.03	0.9436	0.983
ARL8A	0.03	0.9436	0.983
ASS1	0.03	0.9436	0.983
BMF	0.03	0.9436	0.983
BZRAP1	0.03	0.9436	0.983
C15orf57	0.03	0.94663	0.983
C5orf49	0.03	0.9436	0.983
C5orf64	0.03	0.9436	0.983
CACNG1	0.03	0.9436	0.983
CAMK2B	0.03	0.9436	0.983
CAPN1	0.03	0.9436	0.983
CASP5	0.03	0.9436	0.983
CBFA2T3	0.03	0.9436	0.983
CCHCR1	0.03	0.946631	0.983
CDC37	0.03	0.94663	0.983
CHRD	0.03	0.9436	0.983
CNNM2	0.03	0.946631	0.983
CNTD2	0.03	0.9436	0.983

CNTFR	0.03	0.94663	0.983
CRELD2	0.03	0.94663	0.983
CTNNA1	0.03	0.9436	0.983
CXCL5	0.03	0.9436	0.983
CYP4F12	0.03	0.9436	0.983
DDX19A	0.03	0.94663	0.983
DMKN	0.03	0.9436	0.983
DNAJC21	0.03	0.9436	0.983
DPEP2	0.03	0.9436	0.983
DYRK1B	0.03	0.9436	0.983
EDA	0.03	0.9436	0.983
EEA1	0.03	0.9436	0.983
ESCO2	0.03	0.9436	0.983
FAM151A	0.03	0.9436	0.983
FAM222B	0.03	0.9436	0.983
FAM26D	0.03	0.9436	0.983
FAM47A	0.03	0.9436	0.983
FAM89A	0.03	0.94663	0.983
FGD4	0.03	0.946631	0.983
FGF6	0.03	0.9436	0.983
FOXD1	0.03	0.949173	0.984
FOXP4	0.03	0.946631	0.983
GBAS	0.03	0.9436	0.983
GCSAML	0.03	0.9436	0.983
GDF11	0.03	0.9436	0.983
GSDMB	0.03	0.9436	0.983
GSG1L2	0.03	0.949174	0.984
HIBADH	0.03	0.9436	0.983
HIST1H4A	0.03	0.9436	0.983
HSD11B1L	0.03	0.952671	0.984
HUS1B	0.03	0.9436	0.983
IGF2BP2	0.03	0.9436	0.983
IL26	0.03	0.9436	0.983
IZUMO4	0.03	0.9436	0.983
KCNH1	0.03	0.9436	0.983
KIAA1244	0.03	0.9436	0.983
KIAA1468	0.03	0.9436	0.983
KIF12	0.03	0.94663	0.983
KIRREL	0.03	0.9436	0.983
KRT19	0.03	0.9436	0.983
KRT36	0.03	0.9436	0.983
KRT37	0.03	0.9436	0.983
KRTAP13-3	0.03	0.9436	0.983
LCE2C	0.03	0.9436	0.983
LCN2	0.03	0.9436	0.983
LEAP2	0.03	0.9436	0.983
LPPR5	0.03	0.9436	0.983

LRRC6	0.03	0.9436	0.983
MARCH8	0.03	0.9436	0.983
MEGF10	0.03	0.9436	0.983
MINA	0.03	0.949174	0.984
MLLT4	0.03	0.94663	0.983
MME	0.03	0.9436	0.983
MPP3	0.03	0.9436	0.983
NCAPG	0.03	0.94663	0.983
NCR3LG1	0.03	0.9436	0.983
NGB	0.03	0.9436	0.983
NGRN	0.03	0.9436	0.983
NKX6-2	0.03	0.9436	0.983
NME1-NME2	0.03	0.9436	0.983
NUDT13	0.03	0.9436	0.983
OVCH1	0.03	0.9436	0.983
PGA5	0.03	0.9436	0.983
PHLPP2	0.03	0.9436	0.983
PLCD4	0.03	0.9436	0.983
PLXNA4	0.03	0.9436	0.983
PNPO	0.03	0.946631	0.983
POLR3H	0.03	0.946631	0.983
PP2D1	0.03	0.9436	0.983
PRAMEF25	0.03	0.963433	0.986
PTGER1	0.03	0.9436	0.983
PYGO1	0.03	0.9436	0.983
RAD51AP1	0.03	0.9436	0.983
RAMP2	0.03	0.9436	0.983
RD3L	0.03	0.9436	0.983
RNF165	0.03	0.9436	0.983
RPL29	0.03	0.9436	0.983
RRAGD	0.03	0.946631	0.983
SCAMP5	0.03	0.9436	0.983
SEMG2	0.03	0.946631	0.983
SFRP1	0.03	0.946631	0.983
SLC25A48	0.03	0.9436	0.983
SLC25A53	0.03	0.9436	0.983
SNAP29	0.03	0.9436	0.983
SNRNP25	0.03	0.94663	0.983
SNRPD3	0.03	0.955928	0.984
SSPN	0.03	0.9436	0.983
SUPV3L1	0.03	0.946631	0.983
SYCE1	0.03	0.9436	0.983
TBC1D28	0.03	0.94663	0.983
TCFL5	0.03	0.94663	0.983
TRIB3	0.03	0.9436	0.983
TRIM47	0.03	0.9436	0.983
TTC21A	0.03	0.9436	0.983

UBL4B	0.03	0.9436	0.983
USB1	0.03	0.9436	0.983
USP17L2	0.03	0.946631	0.983
ZCCHC10	0.03	0.94663	0.983
ZCCHC8	0.03	0.946631	0.983
ZDBF2	0.03	0.9436	0.983
ZFP28	0.03	0.9436	0.983
ZNF157	0.03	0.9436	0.983
ZNF225	0.03	0.9436	0.983
ZNF781	0.03	0.94663	0.983
ZNF91	0.03	0.9436	0.983
ADAMTS7	0.04	0.929593	0.981
ADCYAP1	0.04	0.929592	0.981
ALB	0.04	0.929593	0.981
AMZ2	0.04	0.929593	0.981
ANKRD66	0.04	0.929592	0.981
ANTXR2	0.04	0.929592	0.981
ARAP1	0.04	0.929592	0.981
AREG	0.04	0.929592	0.981
ASH1L	0.04	0.929593	0.981
ATP2B4	0.04	0.929593	0.981
B3GALNT2	0.04	0.929593	0.981
BCL2L13	0.04	0.929592	0.981
BPIFA1	0.04	0.93325	0.983
BSND	0.04	0.929592	0.981
C9orf84	0.04	0.929592	0.981
CCDC140	0.04	0.929593	0.981
CCL17	0.04	0.929592	0.981
CDC42SE2	0.04	0.929592	0.981
CDK16	0.04	0.929592	0.981
CNTN3	0.04	0.929593	0.981
CRY2	0.04	0.929593	0.981
CYC1	0.04	0.929593	0.981
DNAH7	0.04	0.929593	0.981
DOK4	0.04	0.929593	0.981
DUSP18	0.04	0.929592	0.981
DYNC1H1	0.04	0.944907	0.983
EARS2	0.04	0.929592	0.981
FAIM2	0.04	0.929593	0.981
FAM53C	0.04	0.93325	0.983
FARSA	0.04	0.93655	0.983
GATM	0.04	0.933251	0.983
GFI1B	0.04	0.929593	0.981
GRIA1	0.04	0.929592	0.981
GTSF1	0.04	0.929593	0.981
HCAR1	0.04	0.93655	0.983
HJURP	0.04	0.93325	0.983

HMGCS2	0.04	0.929593	0.981
HTR2A	0.04	0.933251	0.983
IGFBP4	0.04	0.929593	0.981
IGFBP6	0.04	0.929593	0.981
IRX3	0.04	0.929593	0.981
KIAA1715	0.04	0.929593	0.981
KLF3	0.04	0.929592	0.981
KLHL30	0.04	0.933251	0.983
KLHL42	0.04	0.933251	0.983
LGR5	0.04	0.929592	0.981
LHX4	0.04	0.929593	0.981
MAFA	0.04	0.929593	0.981
MAP3K1	0.04	0.93325	0.983
MARC2	0.04	0.929593	0.981
MTM1	0.04	0.929593	0.981
MTUS2	0.04	0.933251	0.983
NDRG4	0.04	0.933251	0.983
NDUFAF3	0.04	0.929593	0.981
NECAB3	0.04	0.929593	0.981
NEURL	0.04	0.929592	0.981
NKX2-6	0.04	0.929592	0.981
NTNG1	0.04	0.929592	0.981
OR2A5	0.04	0.929592	0.981
OR51B2	0.04	0.929592	0.981
OR52I1	0.04	0.929592	0.981
OR9G4	0.04	0.933251	0.983
OSBPL10	0.04	0.929593	0.981
PABPC3	0.04	0.929592	0.981
PAPLN	0.04	0.929592	0.981
PARP9	0.04	0.929593	0.981
PDPR	0.04	0.929593	0.981
PDYN	0.04	0.929592	0.981
PHKG2	0.04	0.929593	0.981
PHOSPHO2	0.04	0.929593	0.981
PPP1R7	0.04	0.929593	0.981
PRAMEF26	0.04	0.954269	0.984
PRR4	0.04	0.929592	0.981
PSG8	0.04	0.929592	0.981
PSG9	0.04	0.933251	0.983
PSTPIP1	0.04	0.929592	0.981
PTP4A2	0.04	0.929593	0.981
RAB17	0.04	0.929593	0.981
RAPGEF6	0.04	0.929593	0.981
RGAG4	0.04	0.929592	0.981
RGS6	0.04	0.929593	0.981
RIOK3	0.04	0.929593	0.981
RMI2	0.04	0.929593	0.981

RPS6KB2	0.04	0.933251	0.983
SH3TC1	0.04	0.93325	0.983
SLC22A31	0.04	0.93655	0.983
SLC27A1	0.04	0.929593	0.981
SLC39A1	0.04	0.929593	0.981
SLN	0.04	0.949556	0.984
SMAD5	0.04	0.929593	0.981
SPATA17	0.04	0.929592	0.981
SRSF2	0.04	0.944907	0.983
SRSF7	0.04	0.929592	0.981
STAU2	0.04	0.929592	0.981
STXBP5	0.04	0.929593	0.981
SV2A	0.04	0.929593	0.981
SYMPK	0.04	0.929592	0.981
SYT16	0.04	0.929593	0.981
SYT4	0.04	0.933251	0.983
THSD7B	0.04	0.93325	0.983
TMPRSS11E	0.04	0.929593	0.981
TNKS2	0.04	0.929593	0.981
TRH	0.04	0.929593	0.981
TRIM16L	0.04	0.929592	0.981
TRUB1	0.04	0.929592	0.981
TSPAN14	0.04	0.929592	0.981
TWIST1	0.04	0.929593	0.981
VCX3A	0.04	0.929592	0.981
VPS51	0.04	0.93325	0.983
WDPCP	0.04	0.929593	0.981
WHSC1L1	0.04	0.929592	0.981
WWP1	0.04	0.929593	0.981
ZADH2	0.04	0.929592	0.981
ZFYVE16	0.04	0.933251	0.983
ZNF2	0.04	0.929593	0.981
ZNF367	0.04	0.933251	0.983
ZNF414	0.04	0.929593	0.981
ZNF45	0.04	0.929593	0.981
ZNF484	0.04	0.929593	0.981
ZNF718	0.04	0.94082	0.983
ACRBP	0.05	0.919868	0.981
ADRB3	0.05	0.919868	0.981
AHCYL2	0.05	0.91565	0.979
ALDOA	0.05	0.929051	0.981
ALG10	0.05	0.91565	0.979
ALPL	0.05	0.91565	0.979
ANAPC7	0.05	0.91565	0.979
ANKRD53	0.05	0.91565	0.979
BNIP1	0.05	0.91565	0.979
C11orf80	0.05	0.91565	0.979

C17orf66	0.05	0.91565	0.979
C19orf57	0.05	0.91565	0.979
C2CD2L	0.05	0.91565	0.979
C2orf43	0.05	0.91565	0.979
C3orf38	0.05	0.91565	0.979
C3orf84	0.05	0.91565	0.979
C7orf69	0.05	0.919868	0.981
CALN1	0.05	0.91565	0.979
CAMK1G	0.05	0.91565	0.979
CARS	0.05	0.91565	0.979
CCDC73	0.05	0.91565	0.979
CCDC84	0.05	0.919867	0.981
CCDC97	0.05	0.91565	0.979
CCS	0.05	0.91565	0.979
CDHR4	0.05	0.919867	0.981
CEP95	0.05	0.91565	0.979
CLEC14A	0.05	0.91565	0.979
CLNK	0.05	0.91565	0.979
CLSPN	0.05	0.923893	0.981
COL26A1	0.05	0.91565	0.979
COL3A1	0.05	0.91565	0.979
COPS4	0.05	0.91565	0.979
CRYBA4	0.05	0.91565	0.979
CTSO	0.05	0.91565	0.979
CYP7B1	0.05	0.91565	0.979
DCP2	0.05	0.91565	0.979
DHX57	0.05	0.91565	0.979
DIXDC1	0.05	0.919868	0.981
DLG3	0.05	0.91565	0.979
DYNC2H1	0.05	0.91565	0.979
EID1	0.05	0.91565	0.979
ENTPD3	0.05	0.91565	0.979
EPGN	0.05	0.91565	0.979
ERP29	0.05	0.91565	0.979
FAM83F	0.05	0.91565	0.979
FBXO6	0.05	0.91565	0.979
FHOD1	0.05	0.91565	0.979
GABRD	0.05	0.91565	0.979
GAS2L2	0.05	0.91565	0.979
GDF5	0.05	0.91565	0.979
HELB	0.05	0.91565	0.979
HIST2H2AB	0.05	0.91565	0.979
HKDC1	0.05	0.91565	0.979
JMJD4	0.05	0.91565	0.979
KIAA1549L	0.05	0.919867	0.981
LBH	0.05	0.91565	0.979
LMF1	0.05	0.91565	0.979

LRRC27	0.05	0.91565	0.979
LRTM2	0.05	0.91565	0.979
MAP7D2	0.05	0.91565	0.979
MGLL	0.05	0.91565	0.979
MLEC	0.05	0.919868	0.981
MMP19	0.05	0.919867	0.981
MMP24	0.05	0.91565	0.979
MTOR	0.05	0.919867	0.981
NDUFAF7	0.05	0.91565	0.979
NEK3	0.05	0.91565	0.979
NEK9	0.05	0.91565	0.979
NKAIN1	0.05	0.91565	0.979
NR4A1	0.05	0.91565	0.979
NTHL1	0.05	0.91565	0.979
OR13C8	0.05	0.919867	0.981
OR2F1	0.05	0.91565	0.979
OR4C46	0.05	0.91565	0.979
OR6M1	0.05	0.91565	0.979
PAOX	0.05	0.91565	0.979
PDC	0.05	0.91565	0.979
PDE6A	0.05	0.91565	0.979
PGBD2	0.05	0.91565	0.979
PHKB	0.05	0.91565	0.979
PHYHD1	0.05	0.91565	0.979
PI15	0.05	0.91565	0.979
PPP2R3C	0.05	0.91565	0.979
PRDM10	0.05	0.919867	0.981
PRMT6	0.05	0.91565	0.979
PTGIR	0.05	0.91565	0.979
RAB4B	0.05	0.91565	0.979
RASGEF1C	0.05	0.91565	0.979
REG1B	0.05	0.91565	0.979
RINT1	0.05	0.923893	0.981
RNF186	0.05	0.919867	0.981
S100A7	0.05	0.91565	0.979
SIK1	0.05	0.91565	0.979
SLC16A11	0.05	0.91565	0.979
SLC16A8	0.05	0.91565	0.979
SLC1A5	0.05	0.919867	0.981
SMG1	0.05	0.91565	0.979
SMIM11A	0.05	0.93946	0.983
SMIM7	0.05	0.91565	0.979
SNX22	0.05	0.91565	0.979
STIL	0.05	0.919867	0.981
STYK1	0.05	0.91565	0.979
SUOX	0.05	0.91565	0.979
TAF7	0.05	0.91565	0.979

TFEC	0.05	0.91565	0.979
TH	0.05	0.91565	0.979
TMEM235	0.05	0.91565	0.979
TNP2	0.05	0.91565	0.979
TOMM40	0.05	0.919867	0.981
TPBG	0.05	0.923894	0.981
TRIM37	0.05	0.91565	0.979
TRIO	0.05	0.91565	0.979
TLL12	0.05	0.919867	0.981
UGCG	0.05	0.91565	0.979
VAV3	0.05	0.91565	0.979
VEGFA	0.05	0.91565	0.979
WRAP53	0.05	0.91565	0.979
YARS2	0.05	0.919867	0.981
ZMAT2	0.05	0.923893	0.981
ZNF284	0.05	0.91565	0.979
ZNF286A	0.05	0.91565	0.979
ZNF486	0.05	0.919867	0.981
ZNF559	0.05	0.91565	0.979
ABL2	0.06	0.90162	0.977
ACSS2	0.06	0.90162	0.977
ADAD1	0.06	0.90162	0.977
ADAP1	0.06	0.90162	0.977
ADIPOR2	0.06	0.90162	0.977
ANAPC1	0.06	0.90162	0.977
ARPP19	0.06	0.90162	0.977
ARSD	0.06	0.90162	0.977
ASMTL	0.06	0.90162	0.977
ATXN1L	0.06	0.906521	0.979
AZGP1	0.06	0.90162	0.977
B3GAT3	0.06	0.90162	0.977
BHLHE40	0.06	0.906521	0.979
C12orf39	0.06	0.90162	0.977
C19orf53	0.06	0.90652	0.979
C2orf48	0.06	0.90162	0.977
C9orf96	0.06	0.90162	0.977
CARD6	0.06	0.90162	0.977
CCDC116	0.06	0.90652	0.979
CCDC85B	0.06	0.90162	0.977
CCNB2	0.06	0.90162	0.977
CFAP74	0.06	0.90162	0.977
CHEK2	0.06	0.90162	0.977
CHMP3	0.06	0.90162	0.977
CKAP2	0.06	0.90162	0.977
CLCA2	0.06	0.90162	0.977
CMPK2	0.06	0.90162	0.977
COX7A2	0.06	0.90162	0.977

CRYGB	0.06	0.90162	0.977
CT45A5	0.06	0.90162	0.977
CTNND1	0.06	0.90162	0.977
CTU2	0.06	0.90162	0.977
CYP2W1	0.06	0.90162	0.977
DCTN4	0.06	0.906521	0.979
DENND2C	0.06	0.906521	0.979
DHRS11	0.06	0.90162	0.977
DKK3	0.06	0.90162	0.977
DNAJC22	0.06	0.90162	0.977
DYDC1	0.06	0.906521	0.979
EGLN2	0.06	0.90162	0.977
EPHA5	0.06	0.90162	0.977
ETV6	0.06	0.90162	0.977
EVA1C	0.06	0.90162	0.977
EVI5L	0.06	0.90162	0.977
FAM126B	0.06	0.90162	0.977
FAM187B	0.06	0.90162	0.977
FBXO41	0.06	0.917186	0.98
FKTN	0.06	0.90162	0.977
GAS2	0.06	0.90162	0.977
GPC1	0.06	0.90162	0.977
GPN3	0.06	0.90162	0.977
GPR25	0.06	0.90162	0.977
GRHL3	0.06	0.90162	0.977
GRIK4	0.06	0.906521	0.979
HERC2	0.06	0.90162	0.977
HIST1H3C	0.06	0.90162	0.977
ID1	0.06	0.90162	0.977
IFNL4	0.06	0.90162	0.977
IGF1	0.06	0.90162	0.977
INSL3	0.06	0.90162	0.977
KCTD8	0.06	0.90162	0.977
KIAA1456	0.06	0.90162	0.977
KIF5A	0.06	0.90162	0.977
KRTAP5-10	0.06	0.90652	0.979
KRTCAP3	0.06	0.906521	0.979
KTI12	0.06	0.90162	0.977
LCE3E	0.06	0.906521	0.979
LRP5	0.06	0.90162	0.977
LTK	0.06	0.90162	0.977
LY6E	0.06	0.90162	0.977
MAF	0.06	0.90162	0.977
MAPK12	0.06	0.90652	0.979
MB	0.06	0.90162	0.977
MBLAC2	0.06	0.90162	0.977
MPPED1	0.06	0.90162	0.977

MRPL23	0.06	0.90162	0.977
MTFR2	0.06	0.906521	0.979
MTHFR	0.06	0.90162	0.977
MYH7B	0.06	0.906521	0.979
NBPF6	0.06	0.90162	0.977
NDE1	0.06	0.90162	0.977
NR2E1	0.06	0.906521	0.979
NTS	0.06	0.90162	0.977
NUDT6	0.06	0.90162	0.977
OR4A47	0.06	0.90162	0.977
PCK1	0.06	0.90162	0.977
PHLDB2	0.06	0.90162	0.977
PKLR	0.06	0.90162	0.977
PLD4	0.06	0.90162	0.977
PMEL	0.06	0.906521	0.979
POLR1C	0.06	0.911344	0.979
PRDM6	0.06	0.90162	0.977
PROSC	0.06	0.90162	0.977
PTCRA	0.06	0.90162	0.977
S1PR1	0.06	0.90162	0.977
SAP25	0.06	0.90162	0.977
SCIMP	0.06	0.90652	0.979
SECISBP2	0.06	0.90652	0.979
SIGLECL1	0.06	0.90162	0.977
SLAIN2	0.06	0.90162	0.977
SLC25A3	0.06	0.90162	0.977
SLC25A39	0.06	0.90162	0.977
SLC34A1	0.06	0.90162	0.977
SMCO2	0.06	0.90162	0.977
SORBS1	0.06	0.90162	0.977
ST6GALNAC	0.06	0.90162	0.977
STON1-GTF	0.06	0.90162	0.977
STRA13	0.06	0.90162	0.977
SUSD2	0.06	0.90162	0.977
SV2B	0.06	0.906521	0.979
TGFB2	0.06	0.90162	0.977
TIRAP	0.06	0.90162	0.977
TOP1	0.06	0.906521	0.979
TRA2A	0.06	0.90162	0.977
TRIAP1	0.06	0.906521	0.979
TRIM24	0.06	0.90652	0.979
TRIM6-TRIM	0.06	0.90162	0.977
TRPV5	0.06	0.906521	0.979
TSPAN11	0.06	0.90162	0.977
TUBB2B	0.06	0.90162	0.977
UBN1	0.06	0.90162	0.977
UBXN2B	0.06	0.90162	0.977

XRCC1	0.06	0.90162	0.977
ZNF154	0.06	0.90162	0.977
ZNF671	0.06	0.90162	0.977
ABHD12B	0.07	0.887674	0.976
ACBD4	0.07	0.887674	0.976
ACOXL	0.07	0.887673	0.976
AEBP2	0.07	0.887673	0.976
ANKZF1	0.07	0.887673	0.976
ANP32D	0.07	0.887674	0.976
ARL14EPL	0.07	0.887674	0.976
ARMC4	0.07	0.887674	0.976
ASB9	0.07	0.887673	0.976
AURKB	0.07	0.911989	0.979
AVL9	0.07	0.887673	0.976
BFSP2	0.07	0.887674	0.976
BVES	0.07	0.887673	0.976
C22orf23	0.07	0.898739	0.977
CACNG2	0.07	0.887673	0.976
CALML6	0.07	0.887673	0.976
CAPZA1	0.07	0.887674	0.976
CASC10	0.07	0.887673	0.976
CASP10	0.07	0.887673	0.976
CCDC59	0.07	0.887673	0.976
CHAC1	0.07	0.89322	0.977
CLDN14	0.07	0.887673	0.976
CNPY4	0.07	0.887673	0.976
COX19	0.07	0.887673	0.976
CP	0.07	0.887673	0.976
CPLX2	0.07	0.89322	0.977
CR1L	0.07	0.887673	0.976
CRYAB	0.07	0.90546	0.979
CTAGE6	0.07	0.887673	0.976
DEFB135	0.07	0.89322	0.977
DNAH6	0.07	0.887673	0.976
DPH7	0.07	0.887673	0.976
DUSP19	0.07	0.887673	0.976
DUSP3	0.07	0.887673	0.976
EFCAB3	0.07	0.893221	0.977
EPHA1	0.07	0.887673	0.976
ETV2	0.07	0.887673	0.976
EXOG	0.07	0.89322	0.977
FAIM3	0.07	0.887674	0.976
FAM127A	0.07	0.887673	0.976
FAM203A	0.07	0.887673	0.976
FANCM	0.07	0.89322	0.977
FSTL1	0.07	0.887674	0.976
FUT10	0.07	0.887673	0.976

GAPDHS	0.07	0.89322	0.977
GDF10	0.07	0.887673	0.976
GDPD3	0.07	0.887673	0.976
GLP1R	0.07	0.887673	0.976
GTF2E2	0.07	0.887673	0.976
HINFP	0.07	0.89322	0.977
HK3	0.07	0.887674	0.976
HOOK1	0.07	0.887674	0.976
IFIT1B	0.07	0.887673	0.976
IFNG	0.07	0.887673	0.976
IGDCC4	0.07	0.887673	0.976
IL24	0.07	0.887674	0.976
ING1	0.07	0.887673	0.976
INTS7	0.07	0.887673	0.976
KCNAB3	0.07	0.887673	0.976
KIAA1919	0.07	0.887673	0.976
KIF5C	0.07	0.887673	0.976
KLHL15	0.07	0.887673	0.976
KNOP1	0.07	0.887673	0.976
LCP1	0.07	0.89322	0.977
LEMD1	0.07	0.887673	0.976
LIMS3	0.07	0.887673	0.976
LOR	0.07	0.887673	0.976
LPAR6	0.07	0.887673	0.976
LPIN1	0.07	0.887673	0.976
LRP5L	0.07	0.887673	0.976
LRRC47	0.07	0.887673	0.976
LSG1	0.07	0.893221	0.977
LSM7	0.07	0.887673	0.976
LTBP3	0.07	0.887673	0.976
MAPKBP1	0.07	0.887673	0.976
MLH1	0.07	0.887673	0.976
MLYCD	0.07	0.887673	0.976
MMS19	0.07	0.887673	0.976
MS4A2	0.07	0.887673	0.976
MSH3	0.07	0.887673	0.976
MT2A	0.07	0.887674	0.976
MTMR10	0.07	0.887673	0.976
MYT1L	0.07	0.893221	0.977
NOL6	0.07	0.898738	0.977
NPPB	0.07	0.887673	0.976
NPTN	0.07	0.887673	0.976
OR10H3	0.07	0.887673	0.976
OR1M1	0.07	0.887673	0.976
PCCA	0.07	0.89322	0.977
PCLO	0.07	0.89322	0.977
PDE10A	0.07	0.89322	0.977

PFAS	0.07	0.898739	0.977
PIK3R2	0.07	0.887673	0.976
PIK3R5	0.07	0.89322	0.977
PLEKHA1	0.07	0.893221	0.977
POU4F3	0.07	0.887674	0.976
PPP1R3A	0.07	0.893221	0.977
PRB1	0.07	0.887673	0.976
PRKAR1B	0.07	0.887673	0.976
PRND	0.07	0.887674	0.976
PRPS2	0.07	0.89322	0.977
PRR23B	0.07	0.887674	0.976
PTP4A3	0.07	0.887674	0.976
RASL11A	0.07	0.887673	0.976
RBPJL	0.07	0.887673	0.976
REEP4	0.07	0.887673	0.976
RFWD3	0.07	0.887673	0.976
RNF151	0.07	0.887673	0.976
RRP12	0.07	0.887673	0.976
SDAD1	0.07	0.89322	0.977
SESN1	0.07	0.887673	0.976
SH3GLB2	0.07	0.887673	0.976
SHANK3	0.07	0.887673	0.976
SLCO1B1	0.07	0.887673	0.976
SLCO1B3	0.07	0.887673	0.976
SPON1	0.07	0.887673	0.976
SPPL2A	0.07	0.887674	0.976
SYNDIG1L	0.07	0.887673	0.976
TACC2	0.07	0.887673	0.976
TDRD12	0.07	0.887673	0.976
TEAD1	0.07	0.887673	0.976
TEX22	0.07	0.887673	0.976
TIGD1	0.07	0.887673	0.976
TMEM116	0.07	0.887673	0.976
TRIM2	0.07	0.887673	0.976
TSKS	0.07	0.89322	0.977
UCHL1	0.07	0.887673	0.976
UGT2A1	0.07	0.887673	0.976
UNCX	0.07	0.887673	0.976
VANGL1	0.07	0.887673	0.976
YWHAQ	0.07	0.89322	0.977
ZBTB25	0.07	0.887673	0.976
ZBTB38	0.07	0.887673	0.976
ZBTB9	0.07	0.89322	0.977
ZER1	0.07	0.887673	0.976
ZNF605	0.07	0.887673	0.976
ZNF672	0.07	0.887673	0.976
ZNF678	0.07	0.89322	0.977

ZNF765	0.07	0.887673	0.976
ABT1	0.08	0.873738	0.975
ACSM5	0.08	0.873739	0.975
ACTR6	0.08	0.873738	0.975
ADAMTSL4	0.08	0.879983	0.976
ADH5	0.08	0.873738	0.975
ALG11	0.08	0.873738	0.975
ALS2CR11	0.08	0.873738	0.975
APITD1-COF	0.08	0.873738	0.975
ATP5C1	0.08	0.873738	0.975
ATP6V0D1	0.08	0.879983	0.976
BRD7	0.08	0.873738	0.975
C10orf111	0.08	0.873738	0.975
C10orf129	0.08	0.873738	0.975
C1orf167	0.08	0.873738	0.975
C1orf54	0.08	0.873739	0.975
C2CD2	0.08	0.873738	0.975
C9orf9	0.08	0.873738	0.975
CACNA1B	0.08	0.873738	0.975
CCDC19	0.08	0.879983	0.976
CCL19	0.08	0.879983	0.976
CCNC	0.08	0.873738	0.975
CD151	0.08	0.873739	0.975
CD5L	0.08	0.873738	0.975
CDKL4	0.08	0.873739	0.975
CEP250	0.08	0.879983	0.976
CERS1	0.08	0.873738	0.975
CGB2	0.08	0.873738	0.975
CHI3L2	0.08	0.873738	0.975
CNTLN	0.08	0.873738	0.975
COL4A2	0.08	0.886246	0.976
CYB5D2	0.08	0.873738	0.975
CYHR1	0.08	0.873738	0.975
CYTIP	0.08	0.873739	0.975
DACH2	0.08	0.873738	0.975
DEFB129	0.08	0.879983	0.976
DENND6A	0.08	0.879983	0.976
DLX5	0.08	0.873738	0.975
DMRT2	0.08	0.873738	0.975
DYNC111	0.08	0.873738	0.975
DYNLL1	0.08	0.873738	0.975
EDIL3	0.08	0.873739	0.975
ELP6	0.08	0.873739	0.975
ERI3	0.08	0.879983	0.976
ERMARD	0.08	0.873738	0.975
FAM110A	0.08	0.873739	0.975
FAM110D	0.08	0.873738	0.975

FCN2	0.08	0.873739	0.975
FDXACB1	0.08	0.873738	0.975
FES	0.08	0.873738	0.975
FOXN1	0.08	0.879983	0.976
GFM1	0.08	0.879983	0.976
GPATCH2	0.08	0.879984	0.976
GPNMB	0.08	0.873738	0.975
GPR88	0.08	0.879983	0.976
GRK4	0.08	0.873739	0.975
GRXCR1	0.08	0.873739	0.975
GSC2	0.08	0.873738	0.975
HRAS	0.08	0.873738	0.975
HSD17B8	0.08	0.873739	0.975
IFNB1	0.08	0.873738	0.975
IL21	0.08	0.873738	0.975
IQCF3	0.08	0.873738	0.975
ITGAM	0.08	0.873738	0.975
KATNBL1	0.08	0.873738	0.975
KCNG1	0.08	0.873739	0.975
KRT8	0.08	0.873738	0.975
LSP1	0.08	0.873738	0.975
MDGA2	0.08	0.873739	0.975
MIA	0.08	0.873738	0.975
NANOGB	0.08	0.879983	0.976
NARG2	0.08	0.873738	0.975
NCBP2	0.08	0.873738	0.975
NEK11	0.08	0.873738	0.975
NFYB	0.08	0.873738	0.975
NLRP11	0.08	0.873738	0.975
NLRP12	0.08	0.873738	0.975
NME3	0.08	0.873738	0.975
NOL10	0.08	0.879983	0.976
NPBWR1	0.08	0.873739	0.975
NRBP2	0.08	0.873738	0.975
NUTM2B	0.08	0.873738	0.975
OBFC1	0.08	0.873738	0.975
OR10A4	0.08	0.873739	0.975
OR2H2	0.08	0.873738	0.975
PAAF1	0.08	0.873738	0.975
PCP4	0.08	0.873738	0.975
PDE1A	0.08	0.873738	0.975
PHC1	0.08	0.873738	0.975
PINK1	0.08	0.873739	0.975
PKN2	0.08	0.879984	0.976
PLEKHG3	0.08	0.873738	0.975
PLK3	0.08	0.873739	0.975
PLK5	0.08	0.873739	0.975

PPOX	0.08	0.873738	0.975
PTGDS	0.08	0.873738	0.975
PTPN20A	0.08	0.879983	0.976
PTPN20B	0.08	0.879984	0.976
PTPN4	0.08	0.873738	0.975
RARG	0.08	0.873738	0.975
RASEF	0.08	0.873738	0.975
RAVER2	0.08	0.873738	0.975
RHBDL2	0.08	0.873738	0.975
RWDD3	0.08	0.873738	0.975
SDK2	0.08	0.879984	0.976
SHANK1	0.08	0.873738	0.975
SLC26A6	0.08	0.873738	0.975
SLC39A6	0.08	0.873738	0.975
SNW1	0.08	0.873738	0.975
SP7	0.08	0.879984	0.976
SPSB3	0.08	0.873738	0.975
TACR3	0.08	0.873738	0.975
TAS1R3	0.08	0.886246	0.976
TGFBR3L	0.08	0.873738	0.975
THRB	0.08	0.873738	0.975
TMCC2	0.08	0.873738	0.975
TMEM132B	0.08	0.873739	0.975
TMEM205	0.08	0.873738	0.975
TMEM95	0.08	0.873738	0.975
TNNT2	0.08	0.886246	0.976
TTK	0.08	0.873738	0.975
USP54	0.08	0.873738	0.975
VWA3A	0.08	0.879983	0.976
WNT2B	0.08	0.873738	0.975
WRNIP1	0.08	0.873739	0.975
ZNF550	0.08	0.873739	0.975
ZNF681	0.08	0.886246	0.976
ZNF768	0.08	0.873738	0.975
ZNF831	0.08	0.879983	0.976
ADRA2A	0.09	0.859823	0.974
ADSS	0.09	0.881923	0.976
AGFG2	0.09	0.866688	0.975
AKAP2	0.09	0.859823	0.974
AP4S1	0.09	0.859822	0.974
ARSB	0.09	0.866689	0.975
BBS1	0.09	0.859823	0.974
BCL3	0.09	0.859822	0.974
BEST1	0.09	0.859823	0.974
C2CD4B	0.09	0.859823	0.974
CDC40	0.09	0.859823	0.974
CDH12	0.09	0.859822	0.974

CDR2	0.09	0.859822	0.974
CHST13	0.09	0.859823	0.974
CLEC18A	0.09	0.859822	0.974
CNTNAP3	0.09	0.859822	0.974
COL12A1	0.09	0.859823	0.974
CPB2	0.09	0.859823	0.974
CPXCR1	0.09	0.859823	0.974
CRHR1	0.09	0.866689	0.975
CS	0.09	0.859822	0.974
CST7	0.09	0.859823	0.974
DCX	0.09	0.859823	0.974
DDT	0.09	0.859823	0.974
DDX52	0.09	0.859823	0.974
ELL2	0.09	0.859823	0.974
EYA4	0.09	0.859822	0.974
FAM168B	0.09	0.866688	0.975
FAM195A	0.09	0.859822	0.974
FAM25G	0.09	0.859822	0.974
FCHO1	0.09	0.859823	0.974
FOXD4L3	0.09	0.859823	0.974
GMPR2	0.09	0.859823	0.974
GNB1	0.09	0.859823	0.974
GOLPH3	0.09	0.866688	0.975
GPD1L	0.09	0.859822	0.974
HADHB	0.09	0.859822	0.974
HDDC3	0.09	0.859823	0.974
HIP1	0.09	0.859823	0.974
HIST1H4I	0.09	0.859822	0.974
HIST2H4A	0.09	0.859823	0.974
HIST2H4B	0.09	0.859822	0.974
HPGDS	0.09	0.859823	0.974
HSF5	0.09	0.866688	0.975
IFI35	0.09	0.859823	0.974
IFNA17	0.09	0.859822	0.974
IGLON5	0.09	0.859823	0.974
ISG20	0.09	0.859823	0.974
ISL2	0.09	0.859822	0.974
ISYNA1	0.09	0.866688	0.975
KCNJ15	0.09	0.866689	0.975
KDR	0.09	0.859822	0.974
KIAA0040	0.09	0.859823	0.974
KIAA2012	0.09	0.859822	0.974
KLK4	0.09	0.859823	0.974
KRBOX4	0.09	0.859823	0.974
KRTAP13-1	0.09	0.859823	0.974
LCLAT1	0.09	0.859823	0.974
LMAN2	0.09	0.859823	0.974

LRRRC72	0.09	0.859823	0.974
LRRCC1	0.09	0.859823	0.974
MED14	0.09	0.866689	0.975
METTL11B	0.09	0.859822	0.974
MFN2	0.09	0.859822	0.974
MRPL47	0.09	0.866688	0.975
MS4A8	0.09	0.859823	0.974
MSANTD4	0.09	0.859823	0.974
MTFMT	0.09	0.866688	0.975
NANOS3	0.09	0.859822	0.974
NLRP6	0.09	0.859823	0.974
NT5C	0.09	0.859822	0.974
OR2A12	0.09	0.859823	0.974
OR52M1	0.09	0.859823	0.974
OR8B3	0.09	0.859823	0.974
OR911	0.09	0.859822	0.974
OXTR	0.09	0.859823	0.974
PARPBP	0.09	0.859823	0.974
PLIN3	0.09	0.859822	0.974
PRIM1	0.09	0.908966	0.979
PRKCI	0.09	0.859823	0.974
PROK1	0.09	0.859823	0.974
PROSER2	0.09	0.859822	0.974
PRSS58	0.09	0.859823	0.974
PSMG1	0.09	0.859822	0.974
PVRL1	0.09	0.859822	0.974
RAD17	0.09	0.859822	0.974
RBBP5	0.09	0.859822	0.974
REXO1	0.09	0.859823	0.974
RHBG	0.09	0.859823	0.974
RIMS3	0.09	0.859822	0.974
RNF166	0.09	0.859822	0.974
RPL14	0.09	0.873709	0.975
RPL31	0.09	0.859822	0.974
RUFY2	0.09	0.859822	0.974
RUFY4	0.09	0.873709	0.975
S1PR3	0.09	0.859823	0.974
SCARF1	0.09	0.859823	0.974
SGK1	0.09	0.859822	0.974
SLC30A7	0.09	0.866689	0.975
SLC35G2	0.09	0.859822	0.974
SLCO1C1	0.09	0.859823	0.974
SMOX	0.09	0.859823	0.974
SOCS4	0.09	0.859822	0.974
SORBS2	0.09	0.859822	0.974
SPATC1	0.09	0.866688	0.975
SSPO	0.09	0.859822	0.974

STAC	0.09	0.859822	0.974
TARM1	0.09	0.859823	0.974
TIMP4	0.09	0.859822	0.974
TK2	0.09	0.866688	0.975
TMEM115	0.09	0.859823	0.974
TMEM220	0.09	0.859823	0.974
TMEM97	0.09	0.859823	0.974
TMPRSS7	0.09	0.859822	0.974
TP53AIP1	0.09	0.859822	0.974
TREM2	0.09	0.859823	0.974
TRPC1	0.09	0.873708	0.975
TYR	0.09	0.859823	0.974
ULBP2	0.09	0.859822	0.974
UQCRFS1	0.09	0.859822	0.974
VWA1	0.09	0.859822	0.974
VWA7	0.09	0.866688	0.975
YBX1	0.09	0.859822	0.974
YBX2	0.09	0.859823	0.974
YOD1	0.09	0.866689	0.975
ZACN	0.09	0.866688	0.975
ZKSCAN1	0.09	0.866689	0.975
ZNF266	0.09	0.859823	0.974
ZNF446	0.09	0.859822	0.974
ZNF460	0.09	0.859823	0.974
ABCC11	0.1	0.845936	0.974
ABI1	0.1	0.845936	0.974
ACE2	0.1	0.845936	0.974
ACPL2	0.1	0.845936	0.974
ACTN3	0.1	0.845936	0.974
ACTR3B	0.1	0.845936	0.974
ADSSL1	0.1	0.845935	0.974
ALDH3A2	0.1	0.845935	0.974
ALDH6A1	0.1	0.845936	0.974
ANKRD29	0.1	0.845936	0.974
AP2S1	0.1	0.845936	0.974
APTX	0.1	0.845936	0.974
ARF1	0.1	0.845936	0.974
ASPH	0.1	0.845936	0.974
ATP1B3	0.1	0.845936	0.974
BCORL1	0.1	0.845935	0.974
BNIP1	0.1	0.845936	0.974
BPIFA2	0.1	0.845936	0.974
BRIP1	0.1	0.845936	0.974
C1orf105	0.1	0.845936	0.974
C1orf86	0.1	0.845936	0.974
C6orf195	0.1	0.845936	0.974
C7orf31	0.1	0.845936	0.974

CBX8	0.1	0.845936	0.974
CC2D2B	0.1	0.845936	0.974
CCND1	0.1	0.845936	0.974
CCNK	0.1	0.845936	0.974
CDHR3	0.1	0.845936	0.974
CELSR3	0.1	0.845936	0.974
CISD1	0.1	0.845935	0.974
CLDN10	0.1	0.845936	0.974
CLN8	0.1	0.845936	0.974
COL17A1	0.1	0.853508	0.974
COL23A1	0.1	0.853508	0.974
COX17	0.1	0.86126	0.975
CRB2	0.1	0.86126	0.975
DCUN1D5	0.1	0.845936	0.974
DDX58	0.1	0.845935	0.974
DIP2A	0.1	0.853509	0.974
DLK2	0.1	0.845936	0.974
DLL1	0.1	0.845936	0.974
DOK6	0.1	0.845935	0.974
DPP8	0.1	0.853509	0.974
DPY19L4	0.1	0.845936	0.974
EHD1	0.1	0.845936	0.974
EXOSC7	0.1	0.870111	0.975
FAM133B	0.1	0.845936	0.974
FAM163A	0.1	0.845935	0.974
FAM169B	0.1	0.845936	0.974
FGL1	0.1	0.845935	0.974
FLAD1	0.1	0.853508	0.974
FMNL1	0.1	0.853508	0.974
FOXJ2	0.1	0.845936	0.974
FRMD4B	0.1	0.845936	0.974
FXVD6-FXYI	0.1	0.845936	0.974
GABRA6	0.1	0.845936	0.974
GDAP2	0.1	0.845935	0.974
GLCCI1	0.1	0.845935	0.974
GNPDA2	0.1	0.845935	0.974
GPR97	0.1	0.853508	0.974
HDAC7	0.1	0.845936	0.974
HDGFL1	0.1	0.845936	0.974
HMG20A	0.1	0.845936	0.974
HR	0.1	0.845936	0.974
IARS2	0.1	0.853509	0.974
IL15	0.1	0.853508	0.974
IL2RG	0.1	0.845936	0.974
IRGC	0.1	0.845936	0.974
KANSL2	0.1	0.845935	0.974
KCNK5	0.1	0.845935	0.974

KIAA1551	0.1	0.845936	0.974
KIAA1683	0.1	0.845936	0.974
LGR6	0.1	0.853509	0.974
LIN7A	0.1	0.845935	0.974
MAB21L1	0.1	0.845936	0.974
MCRS1	0.1	0.845936	0.974
MDM2	0.1	0.861261	0.975
METAP1D	0.1	0.845936	0.974
MLN	0.1	0.845936	0.974
MMP13	0.1	0.845936	0.974
MRPL2	0.1	0.845936	0.974
MST1L	0.1	0.853509	0.974
MYH6	0.1	0.845935	0.974
NBPF9	0.1	0.845935	0.974
NCK1	0.1	0.845936	0.974
NEB	0.1	0.853509	0.974
NFKBID	0.1	0.845936	0.974
NFKBIE	0.1	0.845936	0.974
NLGN3	0.1	0.845935	0.974
NPTX2	0.1	0.845936	0.974
NTSR1	0.1	0.845936	0.974
OCA2	0.1	0.845936	0.974
OR3A2	0.1	0.845936	0.974
OR52B2	0.1	0.845936	0.974
P2RY6	0.1	0.845936	0.974
PCDHB4	0.1	0.845936	0.974
PDCD1	0.1	0.853508	0.974
PGPEP1	0.1	0.853508	0.974
PRKAB2	0.1	0.853508	0.974
PRX	0.1	0.845936	0.974
PSIP1	0.1	0.845936	0.974
PSMB5	0.1	0.845936	0.974
PYCR1	0.1	0.845936	0.974
RASGRP4	0.1	0.845935	0.974
RCVRN	0.1	0.845936	0.974
RGS20	0.1	0.845936	0.974
RTKN	0.1	0.845936	0.974
SAV1	0.1	0.845936	0.974
SFPQ	0.1	0.845936	0.974
SIPA1L3	0.1	0.845936	0.974
SLC6A14	0.1	0.845936	0.974
SMIM5	0.1	0.845936	0.974
SSUH2	0.1	0.853508	0.974
STARD6	0.1	0.845936	0.974
STK24	0.1	0.853509	0.974
TAF9	0.1	0.845936	0.974
TBC1D16	0.1	0.853509	0.974

TERF2IP	0.1	0.853509	0.974
THEGL	0.1	0.845936	0.974
THEM5	0.1	0.845936	0.974
TIMP3	0.1	0.845936	0.974
TMCO4	0.1	0.845935	0.974
TMEM198	0.1	0.845936	0.974
TRA2B	0.1	0.845935	0.974
TREH	0.1	0.845936	0.974
TRIM42	0.1	0.845935	0.974
TSSK4	0.1	0.845936	0.974
TTC16	0.1	0.845935	0.974
UTP14C	0.1	0.845936	0.974
VTI1A	0.1	0.845936	0.974
WDR72	0.1	0.845935	0.974
ZDHHC24	0.1	0.845936	0.974
ZNF155	0.1	0.845935	0.974
ZNF625	0.1	0.845936	0.974
ABCC3	0.11	0.832073	0.973
AICDA	0.11	0.840339	0.974
ALPI	0.11	0.832073	0.973
AMOTL2	0.11	0.832073	0.973
ARFGAP2	0.11	0.832073	0.973
ARHGEF3	0.11	0.832072	0.973
ARRDC1	0.11	0.832073	0.973
ATAD2	0.11	0.832073	0.973
AURKA	0.11	0.848838	0.974
AURKC	0.11	0.832073	0.973
BCL2L14	0.11	0.832072	0.973
BCS1L	0.11	0.832073	0.973
BSPH1	0.11	0.832072	0.973
BTBD6	0.11	0.832073	0.973
C17orf112	0.11	0.832073	0.973
CACNB2	0.11	0.832073	0.973
CADM2	0.11	0.832073	0.973
CCL11	0.11	0.832072	0.973
CHRNA3	0.11	0.832073	0.973
CLK2	0.11	0.832073	0.973
CRTC2	0.11	0.832072	0.973
CRYGD	0.11	0.832072	0.973
CYP11B2	0.11	0.832073	0.973
DUSP21	0.11	0.832073	0.973
EIF6	0.11	0.848838	0.974
FABP12	0.11	0.832073	0.973
FAM169A	0.11	0.832073	0.973
FAM83G	0.11	0.840339	0.974
FAM89B	0.11	0.832073	0.973
FBXL22	0.11	0.832073	0.973

GABRQ	0.11	0.832073	0.973
GNA13	0.11	0.832073	0.973
GSX2	0.11	0.832073	0.973
H2AFJ	0.11	0.840339	0.974
HIST1H3B	0.11	0.840339	0.974
HP	0.11	0.832073	0.973
IL17RB	0.11	0.832073	0.973
IMPG1	0.11	0.840339	0.974
IMPG2	0.11	0.832073	0.973
ITIH1	0.11	0.832073	0.973
KLF8	0.11	0.832073	0.973
KRTAP6-1	0.11	0.832073	0.973
KRTAP9-4	0.11	0.832073	0.973
LARP6	0.11	0.832073	0.973
LBP	0.11	0.832073	0.973
LMBRD1	0.11	0.832073	0.973
LOC643669	0.11	0.840339	0.974
LRRC66	0.11	0.832072	0.973
LTBP4	0.11	0.840339	0.974
MACC1	0.11	0.832073	0.973
MAPK8	0.11	0.832073	0.973
METTL7B	0.11	0.840339	0.974
MIA3	0.11	0.832072	0.973
MOB2	0.11	0.832073	0.973
MRPL28	0.11	0.848838	0.974
MYH8	0.11	0.832073	0.973
N4BP2L1	0.11	0.832073	0.973
NACC1	0.11	0.832072	0.973
NBL1	0.11	0.832072	0.973
NCOR2	0.11	0.848838	0.974
NFU1	0.11	0.848838	0.974
NINJ2	0.11	0.832073	0.973
NPBWR2	0.11	0.832073	0.973
NR1H4	0.11	0.832072	0.973
NUDT17	0.11	0.832073	0.973
NUFIP2	0.11	0.832072	0.973
NYAP2	0.11	0.832072	0.973
OLFML1	0.11	0.832073	0.973
OR52H1	0.11	0.832072	0.973
OR52W1	0.11	0.832073	0.973
OXER1	0.11	0.840339	0.974
PAFAH2	0.11	0.832073	0.973
PARM1	0.11	0.832073	0.973
PCDH19	0.11	0.832073	0.973
PCDHGA8	0.11	0.832073	0.973
PCYT2	0.11	0.840339	0.974
PEAK1	0.11	0.832073	0.973

PERM1	0.11	0.832072	0.973
POT1	0.11	0.832072	0.973
PPP1R1A	0.11	0.832073	0.973
PPP1R9A	0.11	0.840339	0.974
PRKD3	0.11	0.832073	0.973
PSKH2	0.11	0.832073	0.973
PTDSS2	0.11	0.832073	0.973
PTPN20	0.11	0.832073	0.973
PVRL4	0.11	0.832073	0.973
RALBP1	0.11	0.832073	0.973
RBM48	0.11	0.832073	0.973
REG3A	0.11	0.832073	0.973
RNF224	0.11	0.832073	0.973
RPL36AL	0.11	0.840339	0.974
RRP9	0.11	0.832073	0.973
RSPO2	0.11	0.832073	0.973
SDS	0.11	0.832073	0.973
SDSL	0.11	0.832072	0.973
SLC39A12	0.11	0.832073	0.973
SLC44A2	0.11	0.840339	0.974
SLC6A19	0.11	0.832073	0.973
SMYD5	0.11	0.832073	0.973
SNX18	0.11	0.832073	0.973
SORCS2	0.11	0.832072	0.973
SOST	0.11	0.832072	0.973
SPAG6	0.11	0.832073	0.973
SPATA2	0.11	0.840339	0.974
SPP1	0.11	0.832073	0.973
SPTA1	0.11	0.832073	0.973
STRA8	0.11	0.832073	0.973
TMC5	0.11	0.832073	0.973
TOX3	0.11	0.832073	0.973
TTLL5	0.11	0.840339	0.974
TUBB8	0.11	0.848838	0.974
UBE2L3	0.11	0.832073	0.973
UBTD2	0.11	0.832073	0.973
VEGFB	0.11	0.832073	0.973
VPS37A	0.11	0.832072	0.973
VSIG8	0.11	0.832073	0.973
WDR96	0.11	0.840339	0.974
ZBTB39	0.11	0.832073	0.973
ZDHHC8	0.11	0.840339	0.974
ZFHX2	0.11	0.832073	0.973
ZNF747	0.11	0.840339	0.974
ZSCAN18	0.11	0.832073	0.973
ZXDC	0.11	0.832073	0.973
ADC	0.12	0.818284	0.972

ADRM1	0.12	0.82718	0.973
AFG3L2	0.12	0.836437	0.974
AMACR	0.12	0.818284	0.972
AQP12B	0.12	0.818285	0.972
ARMC2	0.12	0.818285	0.972
ATG10	0.12	0.818285	0.972
ATP2A1	0.12	0.818284	0.972
ATP6V1G3	0.12	0.818284	0.972
B4GALT6	0.12	0.818284	0.972
BARHL2	0.12	0.818285	0.972
C12orf4	0.12	0.818284	0.972
C3orf17	0.12	0.818284	0.972
C3orf20	0.12	0.818284	0.972
CAPN2	0.12	0.818285	0.972
CATSPERG	0.12	0.818284	0.972
CCDC144A	0.12	0.818284	0.972
CCNB3	0.12	0.818284	0.972
CELF6	0.12	0.818284	0.972
CEP104	0.12	0.818284	0.972
CERKL	0.12	0.818284	0.972
COX8A	0.12	0.818284	0.972
CTHRC1	0.12	0.818284	0.972
CTXN2	0.12	0.818284	0.972
CXorf38	0.12	0.818285	0.972
CYP20A1	0.12	0.818285	0.972
DARS2	0.12	0.836437	0.974
DDTL	0.12	0.818285	0.972
DRD2	0.12	0.818284	0.972
EDN3	0.12	0.818284	0.972
EML1	0.12	0.818284	0.972
EPSTI1	0.12	0.82718	0.973
ESX1	0.12	0.827179	0.973
FABP6	0.12	0.827179	0.973
FAM101B	0.12	0.818284	0.972
FAM150B	0.12	0.82718	0.973
FGF4	0.12	0.818285	0.972
FSCN1	0.12	0.818285	0.972
GABPA	0.12	0.818285	0.972
GAGE10	0.12	0.818285	0.972
GCK	0.12	0.82718	0.973
GJA1	0.12	0.818284	0.972
GPD2	0.12	0.818285	0.972
GRAP2	0.12	0.818285	0.972
GZMA	0.12	0.818285	0.972
HCCS	0.12	0.82718	0.973
HCRT	0.12	0.818285	0.972
HDAC1	0.12	0.818284	0.972

HOXA4	0.12	0.818284	0.972
HSBP1	0.12	0.818284	0.972
ICAM2	0.12	0.818284	0.972
IL1RAPL2	0.12	0.818284	0.972
INADL	0.12	0.818284	0.972
KCNT1	0.12	0.818285	0.972
KDM3A	0.12	0.818284	0.972
KIF2C	0.12	0.818284	0.972
KIF9	0.12	0.818284	0.972
KRTCAP2	0.12	0.818285	0.972
LLGL1	0.12	0.818284	0.972
LRRC18	0.12	0.818285	0.972
LRRC70	0.12	0.818284	0.972
MAD1L1	0.12	0.82718	0.973
MAGEB10	0.12	0.818284	0.972
MAPK9	0.12	0.818284	0.972
MASP1	0.12	0.818285	0.972
MCU	0.12	0.818284	0.972
METTL21B	0.12	0.818284	0.972
METTL9	0.12	0.818284	0.972
MFSD3	0.12	0.818285	0.972
MICAL3	0.12	0.818285	0.972
MMP25	0.12	0.818284	0.972
MOSPD1	0.12	0.818284	0.972
MPO	0.12	0.818284	0.972
MYCBPAP	0.12	0.818284	0.972
NDUFB1	0.12	0.818284	0.972
NIF3L1	0.12	0.818285	0.972
NR1H3	0.12	0.818285	0.972
OR1B1	0.12	0.818285	0.972
OR2T2	0.12	0.818285	0.972
OTOP2	0.12	0.82718	0.973
PACRG	0.12	0.818285	0.972
PHF15	0.12	0.818285	0.972
PHGR1	0.12	0.818285	0.972
POGK	0.12	0.818285	0.972
POU6F1	0.12	0.818284	0.972
PPFIBP1	0.12	0.818285	0.972
PRAMEF1	0.12	0.818284	0.972
PRM2	0.12	0.818284	0.972
PTPN13	0.12	0.818284	0.972
RAB6C	0.12	0.818285	0.972
RAN	0.12	0.818284	0.972
RBBP7	0.12	0.818285	0.972
RBM46	0.12	0.818284	0.972
RHOBTB1	0.12	0.818285	0.972
RPL36A	0.12	0.818285	0.972

RPP38	0.12	0.82718	0.973
RPS7	0.12	0.818284	0.972
RYK	0.12	0.836437	0.974
SAMM50	0.12	0.82718	0.973
SCEL	0.12	0.82718	0.973
SEMA4F	0.12	0.818285	0.972
SERPING1	0.12	0.818285	0.972
SLC23A3	0.12	0.827179	0.973
SLC43A2	0.12	0.818284	0.972
SLC6A1	0.12	0.818284	0.972
SMPDL3A	0.12	0.818284	0.972
SOX11	0.12	0.818284	0.972
SPDYC	0.12	0.818284	0.972
SPTB	0.12	0.827179	0.973
SSR3	0.12	0.818284	0.972
STK11IP	0.12	0.818285	0.972
STX7	0.12	0.818284	0.972
SVIL	0.12	0.818285	0.972
TAF12	0.12	0.818284	0.972
TAOK1	0.12	0.818284	0.972
TFIP11	0.12	0.82718	0.973
THAP3	0.12	0.82718	0.973
TM7SF2	0.12	0.818284	0.972
TMEM130	0.12	0.82718	0.973
TNFSF18	0.12	0.818284	0.972
TNS1	0.12	0.818284	0.972
TPCN1	0.12	0.818284	0.972
TPST2	0.12	0.818284	0.972
TTI2	0.12	0.818284	0.972
TXNRD3	0.12	0.82718	0.973
UCHL3	0.12	0.818285	0.972
ULK1	0.12	0.818284	0.972
UPF1	0.12	0.818285	0.972
URB1	0.12	0.82718	0.973
USP11	0.12	0.818284	0.972
VAV1	0.12	0.82718	0.973
WDR19	0.12	0.82718	0.973
ZNF572	0.12	0.818285	0.972
AAAS	0.13	0.814247	0.972
ADH1B	0.13	0.814248	0.972
ARHGAP36	0.13	0.804564	0.971
ARHGAP44	0.13	0.804564	0.971
ARHGEF25	0.13	0.804564	0.971
ARVCF	0.13	0.804564	0.971
ASIC1	0.13	0.804564	0.971
ATAD2B	0.13	0.824076	0.973
AURKAIP1	0.13	0.814248	0.972

BCL7C	0.13	0.804564	0.971
BMP3	0.13	0.804564	0.971
CCDC117	0.13	0.804564	0.971
CCDC124	0.13	0.804564	0.971
CCL4L1	0.13	0.804564	0.971
CDADC1	0.13	0.804564	0.971
CDH8	0.13	0.804564	0.971
CDYL	0.13	0.814247	0.972
CECR1	0.13	0.804564	0.971
CES1	0.13	0.804564	0.971
CHCHD2	0.13	0.804564	0.971
COL1A1	0.13	0.804564	0.971
COX15	0.13	0.804564	0.971
COX7B	0.13	0.804564	0.971
CPSF3	0.13	0.814247	0.972
CYP11B1	0.13	0.804564	0.971
DEF8	0.13	0.804564	0.971
DEFB108B	0.13	0.804564	0.971
DHCR24	0.13	0.804564	0.971
DNAJC19	0.13	0.814247	0.972
DPPA2	0.13	0.804564	0.971
DSTN	0.13	0.814248	0.972
EN2	0.13	0.804564	0.971
EPB41L4A	0.13	0.804564	0.971
ERGIC3	0.13	0.804564	0.971
ERMP1	0.13	0.804564	0.971
FAS	0.13	0.804564	0.971
FHAD1	0.13	0.804564	0.971
FSD1	0.13	0.814248	0.972
GNG11	0.13	0.814247	0.972
GPBAR1	0.13	0.804564	0.971
GPR15	0.13	0.804564	0.971
HAO2	0.13	0.804564	0.971
HES2	0.13	0.804564	0.971
HLA-DPA1	0.13	0.814248	0.972
HOXB13	0.13	0.804564	0.971
IFT81	0.13	0.804564	0.971
ILDR1	0.13	0.804564	0.971
KRT40	0.13	0.804564	0.971
KRTAP9-9	0.13	0.814248	0.972
LRRC8D	0.13	0.804564	0.971
LRRN2	0.13	0.814247	0.972
LZIC	0.13	0.804564	0.971
MAPRE3	0.13	0.814248	0.972
MARVELD1	0.13	0.872855	0.975
MPHOSPH8	0.13	0.814248	0.972
MROH1	0.13	0.804564	0.971

MUC7	0.13	0.804564	0.971
MUM1L1	0.13	0.804564	0.971
MYL9	0.13	0.804564	0.971
MYO6	0.13	0.804564	0.971
NDUFA9	0.13	0.804564	0.971
NICN1	0.13	0.804564	0.971
NUP37	0.13	0.804564	0.971
OLAH	0.13	0.804564	0.971
OLFML2A	0.13	0.804564	0.971
OR1D5	0.13	0.804564	0.971
OR1K1	0.13	0.814248	0.972
OTOL1	0.13	0.804564	0.971
PCMTD2	0.13	0.804564	0.971
PCSK7	0.13	0.804564	0.971
PFKFB1	0.13	0.804564	0.971
PIGX	0.13	0.804564	0.971
PLA2G4F	0.13	0.804564	0.971
PLA2G5	0.13	0.804564	0.971
PLP2	0.13	0.804564	0.971
PNMA6A	0.13	0.804564	0.971
PXDC1	0.13	0.804564	0.971
RAB41	0.13	0.804564	0.971
RANGAP1	0.13	0.824076	0.973
RAX	0.13	0.804564	0.971
RNASE1	0.13	0.814247	0.972
RNF217	0.13	0.814247	0.972
RNPS1	0.13	0.824076	0.973
RPS6KA4	0.13	0.804564	0.971
RTN4	0.13	0.804564	0.971
RTP1	0.13	0.804564	0.971
SEC22C	0.13	0.804564	0.971
SEMA3C	0.13	0.814247	0.972
SH3BP1	0.13	0.804564	0.971
SLC15A4	0.13	0.804564	0.971
SLC19A3	0.13	0.804564	0.971
SLC22A18	0.13	0.804564	0.971
SMIM2	0.13	0.83524	0.974
SNAI3	0.13	0.804564	0.971
SNPH	0.13	0.804564	0.971
SNRPD1	0.13	0.83524	0.974
SNX13	0.13	0.804564	0.971
SNX3	0.13	0.814248	0.972
SPIN1	0.13	0.804564	0.971
SPINK1	0.13	0.804564	0.971
ST8SIA2	0.13	0.814248	0.972
STC1	0.13	0.804564	0.971
SULF2	0.13	0.804564	0.971

TARSL2	0.13	0.804564	0.971
TDRKH	0.13	0.804564	0.971
TMEM101	0.13	0.804564	0.971
TMEM184B	0.13	0.814247	0.972
TMEM200A	0.13	0.804564	0.971
TOPBP1	0.13	0.824076	0.973
TRO	0.13	0.814248	0.972
TRPC4AP	0.13	0.804564	0.971
TSHZ1	0.13	0.804564	0.971
TTPA	0.13	0.804564	0.971
TUBA1C	0.13	0.814247	0.972
USP6	0.13	0.814247	0.972
ZNF662	0.13	0.804564	0.971
ZNF84	0.13	0.804564	0.971
ACTL10	0.14	0.790934	0.968
ACYP1	0.14	0.790934	0.968
ADAMTS15	0.14	0.790933	0.968
AMBRA1	0.14	0.801198	0.971
AP2B1	0.14	0.790934	0.968
APOBEC3A	0.14	0.790934	0.968
APOE	0.14	0.801199	0.971
APOL4	0.14	0.790933	0.968
ARL14EP	0.14	0.790934	0.968
ARL3	0.14	0.790934	0.968
ARMC1	0.14	0.790933	0.968
ATG2A	0.14	0.801199	0.971
ATG4B	0.14	0.790933	0.968
ATP6V1G2	0.14	0.790934	0.968
AWAT1	0.14	0.801199	0.971
C1orf204	0.14	0.790934	0.968
C1orf94	0.14	0.790933	0.968
C6orf211	0.14	0.790933	0.968
C7orf62	0.14	0.790934	0.968
CD177	0.14	0.801198	0.971
CD37	0.14	0.790934	0.968
CDC25A	0.14	0.790933	0.968
CDK2AP1	0.14	0.790933	0.968
CDKN1C	0.14	0.790933	0.968
CHMP4A	0.14	0.790934	0.968
CIRH1A	0.14	0.801198	0.971
CLPTM1	0.14	0.790934	0.968
CNRIP1	0.14	0.790933	0.968
COQ7	0.14	0.790933	0.968
CPNE5	0.14	0.790934	0.968
CSPP1	0.14	0.790934	0.968
CYB5D1	0.14	0.790933	0.968
DHRS7B	0.14	0.790934	0.968

DMRTC2	0.14	0.790934	0.968
DONSON	0.14	0.835704	0.974
DYNLT3	0.14	0.790934	0.968
EFHC1	0.14	0.790933	0.968
EFR3B	0.14	0.790933	0.968
EIF4E3	0.14	0.790934	0.968
EPCAM	0.14	0.790933	0.968
EXOC6B	0.14	0.790933	0.968
FAM171A1	0.14	0.790934	0.968
FBXL7	0.14	0.801199	0.971
FLNB	0.14	0.790933	0.968
GPC3	0.14	0.790934	0.968
GRIN2A	0.14	0.801198	0.971
GUCA2B	0.14	0.801199	0.971
HBA1	0.14	0.801199	0.971
HBA2	0.14	0.801199	0.971
HLA-F	0.14	0.790933	0.968
IFI27	0.14	0.790933	0.968
IGFL1	0.14	0.790934	0.968
ILF3	0.14	0.811787	0.972
KCNQ5	0.14	0.790933	0.968
KNCN	0.14	0.790933	0.968
LRRN4CL	0.14	0.790934	0.968
MAP3K14	0.14	0.790934	0.968
MAPK8IP1	0.14	0.790933	0.968
MAPKAPK5	0.14	0.790934	0.968
MBD6	0.14	0.801198	0.971
MCM3AP	0.14	0.790933	0.968
MCMBP	0.14	0.801199	0.971
MMD	0.14	0.790933	0.968
MPV17	0.14	0.790934	0.968
MRPL39	0.14	0.790934	0.968
MTRNR2L3	0.14	0.849243	0.974
MYBL2	0.14	0.790933	0.968
MYO1F	0.14	0.790933	0.968
NDUFA2	0.14	0.790933	0.968
NKX2-5	0.14	0.790933	0.968
NOP56	0.14	0.790934	0.968
NPHP3	0.14	0.790934	0.968
NPHS1	0.14	0.801198	0.971
NPVF	0.14	0.790933	0.968
OR11H2	0.14	0.790934	0.968
OR2B3	0.14	0.801198	0.971
OR8D2	0.14	0.790933	0.968
PAFAH1B1	0.14	0.849243	0.974
PHAX	0.14	0.801199	0.971
PLLP	0.14	0.790934	0.968

PPA2	0.14	0.801199	0.971
PPP1R12A	0.14	0.790933	0.968
PRSS37	0.14	0.790934	0.968
RAB3IP	0.14	0.790934	0.968
RAI2	0.14	0.790934	0.968
RANBP2	0.14	0.790933	0.968
RBBP9	0.14	0.790933	0.968
RBP3	0.14	0.790934	0.968
RHOC	0.14	0.801199	0.971
RND1	0.14	0.790934	0.968
RNF212B	0.14	0.801198	0.971
RPE65	0.14	0.790933	0.968
SAG	0.14	0.790933	0.968
SLMO1	0.14	0.790933	0.968
SMCO4	0.14	0.790933	0.968
SMNDC1	0.14	0.790933	0.968
SOS2	0.14	0.811787	0.972
TBKBP1	0.14	0.790933	0.968
TBPL1	0.14	0.790933	0.968
TMEM52	0.14	0.790933	0.968
TMEM60	0.14	0.801198	0.971
TNNI3K	0.14	0.790934	0.968
TSKU	0.14	0.790934	0.968
TSPAN8	0.14	0.790933	0.968
TTBK1	0.14	0.790934	0.968
UFSP1	0.14	0.790934	0.968
VPS13A	0.14	0.790933	0.968
VPS33A	0.14	0.790933	0.968
WBP2	0.14	0.801199	0.971
XKRX	0.14	0.790934	0.968
ZNF217	0.14	0.801199	0.971
ZNF583	0.14	0.790934	0.968
ACVR1	0.15	0.777426	0.965
ADAM19	0.15	0.788329	0.968
ADAMTSL5	0.15	0.788329	0.968
ANKRA2	0.15	0.777426	0.965
ARHGEF4	0.15	0.777426	0.965
BRCA2	0.15	0.777426	0.965
BRF2	0.15	0.788328	0.968
C11orf94	0.15	0.777426	0.965
C16orf47	0.15	0.777426	0.965
C16orf52	0.15	0.777426	0.965
C1orf115	0.15	0.777426	0.965
CACNA1E	0.15	0.777426	0.965
CAMKK2	0.15	0.777426	0.965
CAPN13	0.15	0.777426	0.965
CCDC67	0.15	0.777426	0.965

CENPL	0.15	0.788329	0.968
CERS3	0.15	0.777427	0.965
CGB5	0.15	0.777426	0.965
CGB8	0.15	0.777426	0.965
COL5A2	0.15	0.777426	0.965
COL6A3	0.15	0.777426	0.965
CORO7	0.15	0.777426	0.965
CPEB4	0.15	0.777426	0.965
CUEDC2	0.15	0.777426	0.965
DAAM1	0.15	0.788328	0.968
DCST1	0.15	0.777427	0.965
DMRT3	0.15	0.777426	0.965
DNAJC30	0.15	0.777427	0.965
DNASE1L2	0.15	0.777426	0.965
DPF1	0.15	0.777426	0.965
EMB	0.15	0.777426	0.965
FAM170B	0.15	0.777426	0.965
FAM172A	0.15	0.788329	0.968
FAM3B	0.15	0.777426	0.965
FOXJ1	0.15	0.777426	0.965
FRMPD2	0.15	0.777426	0.965
FUCA1	0.15	0.777426	0.965
GGT1	0.15	0.777426	0.965
GLS	0.15	0.777426	0.965
GSTM2	0.15	0.777427	0.965
HCAR3	0.15	0.777426	0.965
HSP90AB1	0.15	0.788328	0.968
IGF1R	0.15	0.788329	0.968
IKBKB	0.15	0.777426	0.965
IL3	0.15	0.788329	0.968
JAKMIP2	0.15	0.777426	0.965
JMJD7-PLA2	0.15	0.777427	0.965
KIAA0513	0.15	0.777426	0.965
KLHL35	0.15	0.777427	0.965
LILRA3	0.15	0.777427	0.965
LRPAP1	0.15	0.777426	0.965
LRRC58	0.15	0.777426	0.965
LYPD8	0.15	0.777426	0.965
MAGEF1	0.15	0.777427	0.965
MEF2D	0.15	0.788329	0.968
MFSD12	0.15	0.788328	0.968
MOS	0.15	0.777426	0.965
MPEG1	0.15	0.777426	0.965
MSMP	0.15	0.777426	0.965
MT4	0.15	0.777426	0.965
MYL12B	0.15	0.788328	0.968
NDUFA6	0.15	0.788328	0.968

NPPC	0.15	0.777426	0.965
NR3C1	0.15	0.777426	0.965
NRXN1	0.15	0.777426	0.965
NTAN1	0.15	0.777426	0.965
NUSAP1	0.15	0.777426	0.965
OPTN	0.15	0.777426	0.965
OR56B4	0.15	0.788329	0.968
OR5T3	0.15	0.788329	0.968
OXT	0.15	0.777427	0.965
P4HTM	0.15	0.777426	0.965
PAGE3	0.15	0.777426	0.965
PCDH8	0.15	0.777426	0.965
PCDHA3	0.15	0.777426	0.965
PCDHB11	0.15	0.777426	0.965
PDE6B	0.15	0.777426	0.965
PERP	0.15	0.777426	0.965
PIAS3	0.15	0.777426	0.965
PLA2G2F	0.15	0.777426	0.965
PLCH2	0.15	0.788328	0.968
PODXL2	0.15	0.777426	0.965
POLR1B	0.15	0.812111	0.972
PPAP2B	0.15	0.777426	0.965
PRAC1	0.15	0.788328	0.968
RPL28	0.15	0.777426	0.965
RPL9	0.15	0.777426	0.965
RPP14	0.15	0.788329	0.968
RPS6KC1	0.15	0.777427	0.965
RPS9	0.15	0.824947	0.973
SCO1	0.15	0.777426	0.965
SLC22A14	0.15	0.777426	0.965
SLC26A1	0.15	0.777427	0.965
SMPD3	0.15	0.777426	0.965
SPAG1	0.15	0.777426	0.965
SRBD1	0.15	0.79949	0.971
STAT5B	0.15	0.777427	0.965
SULT6B1	0.15	0.777426	0.965
TAS1R1	0.15	0.777426	0.965
TBC1D10A	0.15	0.777426	0.965
TCEB3CL2	0.15	0.777426	0.965
TFAP2E	0.15	0.777427	0.965
TFDP3	0.15	0.777427	0.965
TMEM161A	0.15	0.777426	0.965
TMEM86B	0.15	0.777426	0.965
TRAP1	0.15	0.777426	0.965
TRIM14	0.15	0.777427	0.965
TRPC6	0.15	0.777427	0.965
UNC119B	0.15	0.799491	0.971

ZNF283	0.15	0.777426	0.965
ZNF337	0.15	0.777426	0.965
ZNF394	0.15	0.777426	0.965
ZNF48	0.15	0.788329	0.968
ZNF839	0.15	0.777426	0.965
ZNF843	0.15	0.777426	0.965
ZNF850	0.15	0.777426	0.965
ACCSL	0.16	0.763971	0.962
ACTN2	0.16	0.76397	0.962
ADAM30	0.16	0.76397	0.962
AHSP	0.16	0.76397	0.962
ALDH1B1	0.16	0.76397	0.962
ALKBH5	0.16	0.76397	0.962
ANGEL2	0.16	0.76397	0.962
ANKS1A	0.16	0.775458	0.965
APOL1	0.16	0.76397	0.962
ATP6V1C2	0.16	0.76397	0.962
AUNIP	0.16	0.76397	0.962
BLNK	0.16	0.76397	0.962
BLOC1S3	0.16	0.763971	0.962
BTG3	0.16	0.763971	0.962
C19orf59	0.16	0.76397	0.962
C20orf173	0.16	0.763971	0.962
C20orf26	0.16	0.763971	0.962
C5	0.16	0.76397	0.962
C5orf51	0.16	0.775458	0.965
CAAP1	0.16	0.76397	0.962
CAPN8	0.16	0.76397	0.962
CATSPERD	0.16	0.76397	0.962
CCL24	0.16	0.76397	0.962
CD80	0.16	0.76397	0.962
CLEC4A	0.16	0.76397	0.962
COLCA2	0.16	0.775458	0.965
COLGALT2	0.16	0.76397	0.962
CXCR5	0.16	0.775458	0.965
CYB5A	0.16	0.775458	0.965
DAB2IP	0.16	0.775458	0.965
DAZ3	0.16	0.76397	0.962
DEFB103A	0.16	0.763971	0.962
DEFB103B	0.16	0.76397	0.962
DEFB133	0.16	0.829465	0.973
DENND2D	0.16	0.76397	0.962
DFFA	0.16	0.76397	0.962
DNER	0.16	0.76397	0.962
ELP2	0.16	0.763971	0.962
FAM160B1	0.16	0.763971	0.962
FAM25C	0.16	0.763971	0.962

FAM50B	0.16	0.763971	0.962
FBLN1	0.16	0.76397	0.962
FBXO4	0.16	0.775458	0.965
FBXO40	0.16	0.775458	0.965
FGD1	0.16	0.76397	0.962
FLT3LG	0.16	0.763971	0.962
FMO5	0.16	0.76397	0.962
FNDC4	0.16	0.76397	0.962
GCM2	0.16	0.775458	0.965
GLRA3	0.16	0.763971	0.962
GMFG	0.16	0.775458	0.965
GNL3L	0.16	0.775458	0.965
GPR21	0.16	0.76397	0.962
GUCA1B	0.16	0.76397	0.962
HBG1	0.16	0.76397	0.962
HEMK1	0.16	0.76397	0.962
HPN	0.16	0.775458	0.965
IFNLR1	0.16	0.76397	0.962
IFT57	0.16	0.763971	0.962
IGSF10	0.16	0.76397	0.962
ITGA3	0.16	0.763971	0.962
KCNJ8	0.16	0.76397	0.962
KCTD16	0.16	0.76397	0.962
KLF5	0.16	0.76397	0.962
LACTB	0.16	0.763971	0.962
LRRC23	0.16	0.787301	0.968
MEST	0.16	0.76397	0.962
MEX3D	0.16	0.76397	0.962
MMACHC	0.16	0.76397	0.962
MNX1	0.16	0.763971	0.962
NCKAP5	0.16	0.76397	0.962
NDUFA5	0.16	0.763971	0.962
NDUFAF5	0.16	0.787301	0.968
NEUROG2	0.16	0.76397	0.962
NMD3	0.16	0.76397	0.962
NT5C1B	0.16	0.76397	0.962
NXPH1	0.16	0.76397	0.962
NXPH3	0.16	0.775458	0.965
OBSCN	0.16	0.76397	0.962
OR11G2	0.16	0.76397	0.962
OR4F6	0.16	0.775458	0.965
OR6Y1	0.16	0.76397	0.962
OTOS	0.16	0.76397	0.962
OTP	0.16	0.763971	0.962
OXGR1	0.16	0.763971	0.962
PAGE4	0.16	0.763971	0.962
PASD1	0.16	0.76397	0.962

PCNXL3	0.16	0.76397	0.962
PIBF1	0.16	0.76397	0.962
POTEB3	0.16	0.76397	0.962
PPARGC1A	0.16	0.76397	0.962
PRELID1	0.16	0.76397	0.962
PRSS46	0.16	0.763971	0.962
RNF157	0.16	0.787301	0.968
RSAD2	0.16	0.775458	0.965
SELM	0.16	0.76397	0.962
SEMA4D	0.16	0.76397	0.962
SLC22A15	0.16	0.76397	0.962
SLC9A3R2	0.16	0.76397	0.962
SLCO5A1	0.16	0.76397	0.962
SPACA4	0.16	0.76397	0.962
SPG11	0.16	0.76397	0.962
STXBP1	0.16	0.76397	0.962
TEX13B	0.16	0.76397	0.962
TEX264	0.16	0.76397	0.962
TM4SF4	0.16	0.76397	0.962
TMC4	0.16	0.76397	0.962
TPCN2	0.16	0.76397	0.962
TRAPPC3L	0.16	0.76397	0.962
TTC30B	0.16	0.763971	0.962
TXNDC12	0.16	0.763971	0.962
UGT1A1	0.16	0.763971	0.962
USP25	0.16	0.76397	0.962
WIPF1	0.16	0.76397	0.962
WNT3	0.16	0.763971	0.962
ZBTB49	0.16	0.76397	0.962
ZC2HC1B	0.16	0.76397	0.962
ZNF439	0.16	0.76397	0.962
ZNF445	0.16	0.775458	0.965
ZNF616	0.16	0.76397	0.962
ZSWIM6	0.16	0.76397	0.962
ABCA10	0.17	0.750509	0.961
ADORA2A	0.17	0.762559	0.962
AIPL1	0.17	0.750509	0.961
ALDH3B1	0.17	0.750509	0.961
AMIGO2	0.17	0.750509	0.961
APOBEC3F	0.17	0.762559	0.962
AQP1	0.17	0.750509	0.961
ARF3	0.17	0.750509	0.961
ARHGEF10L	0.17	0.750509	0.961
ASRGL1	0.17	0.750509	0.961
ATP5G1	0.17	0.750509	0.961
BZW1	0.17	0.750509	0.961
C16orf91	0.17	0.750509	0.961

C20orf141	0.17	0.750509	0.961
C9orf135	0.17	0.750509	0.961
CALCOCO2	0.17	0.750509	0.961
CD300LG	0.17	0.750509	0.961
CD93	0.17	0.750509	0.961
CHRNA1	0.17	0.750509	0.961
CIDEA	0.17	0.750509	0.961
CKB	0.17	0.750509	0.961
CLEC4E	0.17	0.750509	0.961
CLECL1	0.17	0.750509	0.961
CMBL	0.17	0.750509	0.961
CNOT6	0.17	0.750509	0.961
CYP2U1	0.17	0.750509	0.961
CYP4F22	0.17	0.762559	0.962
DAP	0.17	0.750509	0.961
DBX1	0.17	0.762559	0.962
DCTN5	0.17	0.76256	0.962
DMC1	0.17	0.750509	0.961
DPP4	0.17	0.750509	0.961
DSG4	0.17	0.750509	0.961
DUSP5	0.17	0.750509	0.961
EMX2	0.17	0.750509	0.961
ETV4	0.17	0.750509	0.961
FAM178A	0.17	0.762559	0.962
FAM57B	0.17	0.750509	0.961
FCRL5	0.17	0.750509	0.961
FGR	0.17	0.750509	0.961
FNBP1	0.17	0.762559	0.962
GOLGA7	0.17	0.750509	0.961
GP6	0.17	0.76256	0.962
GPATCH3	0.17	0.750509	0.961
GSTA2	0.17	0.750509	0.961
HEATR4	0.17	0.750509	0.961
HIST1H2AB	0.17	0.750509	0.961
HIST1H2BI	0.17	0.750509	0.961
HRSP12	0.17	0.750509	0.961
HSFY1	0.17	0.750509	0.961
HSFY2	0.17	0.750509	0.961
IGFN1	0.17	0.762559	0.962
IK	0.17	0.750509	0.961
IL4I1	0.17	0.750509	0.961
KCNC1	0.17	0.762559	0.962
KIF24	0.17	0.750509	0.961
KRT28	0.17	0.750509	0.961
LCN8	0.17	0.750509	0.961
LRRC37A	0.17	0.750509	0.961
LYPD5	0.17	0.750509	0.961

LZTS1	0.17	0.750509	0.961
MBIP	0.17	0.750509	0.961
MMP23B	0.17	0.750509	0.961
MPL	0.17	0.750509	0.961
MRPL53	0.17	0.750509	0.961
MVB12A	0.17	0.750509	0.961
MYL4	0.17	0.750509	0.961
MYOZ2	0.17	0.750509	0.961
MYZAP	0.17	0.750509	0.961
NARFL	0.17	0.803516	0.971
NBPF4	0.17	0.750509	0.961
NIN	0.17	0.750509	0.961
NRARP	0.17	0.750509	0.961
NT5DC2	0.17	0.750509	0.961
OPCML	0.17	0.750509	0.961
OPN5	0.17	0.750509	0.961
OR4F4	0.17	0.750509	0.961
OR52N5	0.17	0.750509	0.961
OR5H2	0.17	0.750509	0.961
OSR2	0.17	0.750509	0.961
OTOGL	0.17	0.750509	0.961
PAGE2	0.17	0.750509	0.961
PCDHGA1	0.17	0.750509	0.961
PIAS1	0.17	0.750509	0.961
PIEZO2	0.17	0.750509	0.961
PIN1	0.17	0.750509	0.961
PIWIL3	0.17	0.750509	0.961
PKIB	0.17	0.750509	0.961
PLCG1	0.17	0.750509	0.961
POLR3E	0.17	0.750509	0.961
POPDC2	0.17	0.750509	0.961
PPFIA2	0.17	0.750509	0.961
PPM1D	0.17	0.762559	0.962
PRAP1	0.17	0.750509	0.961
PRDX4	0.17	0.762559	0.962
PRSS41	0.17	0.750509	0.961
PSG1	0.17	0.750509	0.961
PTCD3	0.17	0.750509	0.961
REN	0.17	0.750509	0.961
RGS18	0.17	0.750509	0.961
SAAL1	0.17	0.775102	0.965
SDC2	0.17	0.750509	0.961
SEMA7A	0.17	0.750509	0.961
SERPINB2	0.17	0.76256	0.962
SERPINB8	0.17	0.750509	0.961
SETMAR	0.17	0.76256	0.962
SFTPB	0.17	0.750509	0.961

SH3RF3	0.17	0.750509	0.961
SHROOM3	0.17	0.750509	0.961
SIAH2	0.17	0.750509	0.961
SIKE1	0.17	0.750509	0.961
SLC17A2	0.17	0.750509	0.961
SLC25A22	0.17	0.750509	0.961
SLC31A1	0.17	0.750509	0.961
SMAP1	0.17	0.750509	0.961
SPANXA1	0.17	0.750509	0.961
SPANXA2	0.17	0.750509	0.961
ST3GAL1	0.17	0.762559	0.962
ST7L	0.17	0.750509	0.961
STAT1	0.17	0.750509	0.961
STK17B	0.17	0.750509	0.961
SUCLA2	0.17	0.76256	0.962
TAAR9	0.17	0.750509	0.961
TAF4	0.17	0.750509	0.961
TAS2R43	0.17	0.762559	0.962
TBCCD1	0.17	0.750509	0.961
TBX19	0.17	0.750509	0.961
THBS4	0.17	0.750509	0.961
TMEM185B	0.17	0.750509	0.961
TMPO	0.17	0.750509	0.961
TPRG1	0.17	0.750509	0.961
TSPAN19	0.17	0.750509	0.961
TTC19	0.17	0.750509	0.961
UBXN11	0.17	0.750509	0.961
UFM1	0.17	0.750509	0.961
VCX2	0.17	0.750509	0.961
WDR4	0.17	0.750509	0.961
ZCCHC6	0.17	0.76256	0.962
ZNF285	0.17	0.750509	0.961
ADAMTS6	0.18	0.737201	0.961
ALKBH4	0.18	0.737201	0.961
ANKRD34A	0.18	0.737201	0.961
APBA3	0.18	0.737201	0.961
ARG2	0.18	0.737201	0.961
ARHGAP26	0.18	0.737201	0.961
ASNS	0.18	0.737201	0.961
ASTN1	0.18	0.749836	0.961
BAIAP2L2	0.18	0.737201	0.961
BCKDK	0.18	0.737201	0.961
BCL2L1	0.18	0.737201	0.961
BSN	0.18	0.737201	0.961
C11orf86	0.18	0.737201	0.961
C3orf83	0.18	0.737201	0.961
C5AR2	0.18	0.737201	0.961

C8orf82	0.18	0.763013	0.962
CALM2	0.18	0.749836	0.961
CCDC14	0.18	0.737201	0.961
CCDC9	0.18	0.737201	0.961
CD4	0.18	0.737201	0.961
CDC34	0.18	0.737201	0.961
CHRM1	0.18	0.749836	0.961
CHSY1	0.18	0.737201	0.961
CITED1	0.18	0.737201	0.961
COL7A1	0.18	0.737201	0.961
COQ2	0.18	0.737201	0.961
CPT2	0.18	0.737201	0.961
CT47B1	0.18	0.737201	0.961
CYTH1	0.18	0.737201	0.961
DUSP13	0.18	0.737201	0.961
F2R	0.18	0.737201	0.961
FAM25A	0.18	0.737201	0.961
FAM25B	0.18	0.749836	0.961
FAT4	0.18	0.737201	0.961
FBXO33	0.18	0.737201	0.961
FBXW12	0.18	0.737201	0.961
FCGR3A	0.18	0.737201	0.961
FCGR3B	0.18	0.737201	0.961
FLYWCH2	0.18	0.737201	0.961
FOXE3	0.18	0.737201	0.961
FRMD3	0.18	0.737201	0.961
FRMD6	0.18	0.737201	0.961
FUCA2	0.18	0.737201	0.961
GABRA4	0.18	0.737201	0.961
GADD45GIP	0.18	0.749835	0.961
GALK1	0.18	0.737201	0.961
GALR2	0.18	0.737201	0.961
GBP3	0.18	0.737201	0.961
GCOM1	0.18	0.737201	0.961
GDI1	0.18	0.737201	0.961
GLRX2	0.18	0.737201	0.961
GRAMD3	0.18	0.737201	0.961
GUCA2A	0.18	0.737201	0.961
HARS2	0.18	0.749836	0.961
HOPX	0.18	0.737201	0.961
HSD17B14	0.18	0.737201	0.961
HSPA1B	0.18	0.737201	0.961
HTR3D	0.18	0.749836	0.961
IGF2BP1	0.18	0.737201	0.961
IKBIP	0.18	0.737201	0.961
IQCC	0.18	0.749835	0.961
ITPKB	0.18	0.749836	0.961

KAT5	0.18	0.763013	0.962
KIAA1731	0.18	0.749836	0.961
KIAA2018	0.18	0.737201	0.961
LDHAL6A	0.18	0.737201	0.961
LHFPL5	0.18	0.737201	0.961
LOH12CR1	0.18	0.737201	0.961
MAS1	0.18	0.737201	0.961
MEOX1	0.18	0.763013	0.962
MICAL1	0.18	0.737201	0.961
MSGN1	0.18	0.737201	0.961
NAIF1	0.18	0.737201	0.961
NDNF	0.18	0.737201	0.961
NDUFB2	0.18	0.737201	0.961
NDUFC1	0.18	0.737201	0.961
NT5C1A	0.18	0.737201	0.961
NTPCR	0.18	0.737201	0.961
NUF2	0.18	0.737201	0.961
PCDH9	0.18	0.737201	0.961
PFKFB2	0.18	0.737201	0.961
PIGU	0.18	0.737201	0.961
PLCH1	0.18	0.737201	0.961
PNRC2	0.18	0.737201	0.961
POLN	0.18	0.737201	0.961
PPP2CB	0.18	0.737201	0.961
RAD18	0.18	0.737201	0.961
RASAL2	0.18	0.737201	0.961
RFX8	0.18	0.737201	0.961
RFXANK	0.18	0.749835	0.961
RGSL1	0.18	0.737201	0.961
SDCBP2	0.18	0.737201	0.961
SGPP1	0.18	0.737201	0.961
SIL1	0.18	0.737201	0.961
SKOR2	0.18	0.737201	0.961
SLC18A1	0.18	0.737201	0.961
SLC27A6	0.18	0.737201	0.961
SLC35A3	0.18	0.737201	0.961
SLC5A11	0.18	0.737201	0.961
SMC3	0.18	0.749835	0.961
SORD	0.18	0.737201	0.961
SSMEM1	0.18	0.737201	0.961
STATH	0.18	0.749836	0.961
TBC1D19	0.18	0.737201	0.961
TBR1	0.18	0.737201	0.961
TCTE3	0.18	0.749835	0.961
TFAP2C	0.18	0.737201	0.961
TMEM171	0.18	0.737201	0.961
TMEM207	0.18	0.737201	0.961

TMEM30B	0.18	0.737201	0.961
TMEM74	0.18	0.737201	0.961
TMX4	0.18	0.737201	0.961
TONSL	0.18	0.737201	0.961
TPH1	0.18	0.737201	0.961
TRMT10C	0.18	0.749835	0.961
USP20	0.18	0.737201	0.961
WISP3	0.18	0.737201	0.961
XAGE3	0.18	0.737201	0.961
YY2	0.18	0.737201	0.961
ZC2HC1A	0.18	0.737201	0.961
ZC3H10	0.18	0.737201	0.961
ZNF420	0.18	0.737201	0.961
ZNF500	0.18	0.737201	0.961
AP4M1	0.19	0.723845	0.961
AQP12A	0.19	0.782238	0.968
ASIC2	0.19	0.723845	0.961
ATP5A1	0.19	0.723845	0.961
ATP5D	0.19	0.737134	0.961
AUTS2	0.19	0.723845	0.961
BCMO1	0.19	0.737134	0.961
BEAN1	0.19	0.723845	0.961
BRD9	0.19	0.723845	0.961
BTN2A2	0.19	0.723845	0.961
C11orf68	0.19	0.737134	0.961
C12orf5	0.19	0.723845	0.961
C1QTNF9B	0.19	0.723845	0.961
C2orf40	0.19	0.723845	0.961
C4orf48	0.19	0.723845	0.961
C6orf163	0.19	0.723846	0.961
C6orf201	0.19	0.723845	0.961
CALML3	0.19	0.723845	0.961
CBX6	0.19	0.723846	0.961
CD300A	0.19	0.723845	0.961
CDR1	0.19	0.723845	0.961
CFL2	0.19	0.737134	0.961
CHN2	0.19	0.737134	0.961
CHODL	0.19	0.723846	0.961
CIB1	0.19	0.723846	0.961
CSF1R	0.19	0.723845	0.961
CUX2	0.19	0.750963	0.961
DAK	0.19	0.723846	0.961
DAW1	0.19	0.723845	0.961
DDX60L	0.19	0.723845	0.961
DEFB128	0.19	0.766211	0.964
DOCK4	0.19	0.723845	0.961
DOPEY1	0.19	0.723845	0.961

DPYD	0.19	0.723845	0.961
DRGX	0.19	0.750963	0.961
EFCAB4A	0.19	0.723845	0.961
EIF3B	0.19	0.766211	0.964
FAAH	0.19	0.723846	0.961
FAM210B	0.19	0.723846	0.961
FAM90A1	0.19	0.723846	0.961
FRMPD3	0.19	0.737134	0.961
FYB	0.19	0.723845	0.961
GABRB2	0.19	0.737134	0.961
GABRG1	0.19	0.723845	0.961
GAD1	0.19	0.723846	0.961
GALP	0.19	0.737133	0.961
GAN	0.19	0.723845	0.961
GLIPR1L2	0.19	0.723845	0.961
GPHN	0.19	0.737134	0.961
GTF2A2	0.19	0.737134	0.961
HCFC2	0.19	0.723845	0.961
HIST1H2AA	0.19	0.723845	0.961
HNRNPH3	0.19	0.723846	0.961
HPSE2	0.19	0.723846	0.961
HSPB7	0.19	0.723845	0.961
ICAM5	0.19	0.723846	0.961
IFNA16	0.19	0.723846	0.961
IL16	0.19	0.723846	0.961
IL5RA	0.19	0.723845	0.961
INO80D	0.19	0.723845	0.961
IPO13	0.19	0.737133	0.961
ISLR2	0.19	0.737134	0.961
IZUMO1	0.19	0.723846	0.961
KATNAL1	0.19	0.723845	0.961
KLHL4	0.19	0.723845	0.961
KLK15	0.19	0.723846	0.961
KLRF1	0.19	0.723845	0.961
KRT73	0.19	0.723845	0.961
LRP6	0.19	0.723845	0.961
LYPD6B	0.19	0.737134	0.961
MAP2K7	0.19	0.737134	0.961
MEIS3	0.19	0.723845	0.961
MREG	0.19	0.723846	0.961
MRPS36	0.19	0.750963	0.961
MYH11	0.19	0.737133	0.961
NDUFV1	0.19	0.750963	0.961
NELFCD	0.19	0.723845	0.961
NET1	0.19	0.723846	0.961
NPS	0.19	0.723845	0.961
NR2F2	0.19	0.723845	0.961

NUDT7	0.19	0.723846	0.961
OR2AG2	0.19	0.723845	0.961
OR5B3	0.19	0.723845	0.961
ORC6	0.19	0.750963	0.961
PAQR3	0.19	0.723846	0.961
PARP2	0.19	0.723846	0.961
PCDHGA7	0.19	0.723845	0.961
PDSS2	0.19	0.723845	0.961
PET100	0.19	0.723845	0.961
PHEX	0.19	0.723846	0.961
PITPNC1	0.19	0.723845	0.961
PKD1	0.19	0.723845	0.961
PLD1	0.19	0.723845	0.961
POGLUT1	0.19	0.723846	0.961
PPAP2C	0.19	0.723845	0.961
PPP5C	0.19	0.723846	0.961
PRAMEF8	0.19	0.723846	0.961
PREP	0.19	0.723845	0.961
PRRT3	0.19	0.723845	0.961
PSMD2	0.19	0.737134	0.961
PTOV1	0.19	0.723845	0.961
PTPN21	0.19	0.737134	0.961
PTPRO	0.19	0.723846	0.961
RC3H2	0.19	0.723846	0.961
RETSAT	0.19	0.723846	0.961
RHAG	0.19	0.723845	0.961
RNASE6	0.19	0.723845	0.961
RTBDN	0.19	0.723846	0.961
SAE1	0.19	0.737134	0.961
SASH1	0.19	0.723846	0.961
SCRIB	0.19	0.737134	0.961
SF3B1	0.19	0.723845	0.961
SF3B14	0.19	0.723845	0.961
SLC22A8	0.19	0.750963	0.961
SLC24A3	0.19	0.723845	0.961
SLC25A15	0.19	0.723845	0.961
SLC29A3	0.19	0.723845	0.961
SNX10	0.19	0.723846	0.961
SRPK2	0.19	0.723846	0.961
SULT1E1	0.19	0.723845	0.961
SUPT20HL1	0.19	0.737134	0.961
TBC1D2B	0.19	0.723846	0.961
TEX11	0.19	0.723845	0.961
TMEM134	0.19	0.723846	0.961
TMEM158	0.19	0.723846	0.961
TMSB4X	0.19	0.737134	0.961
TNR	0.19	0.723846	0.961

TOP1MT	0.19	0.723846	0.961
TRIQK	0.19	0.750962	0.961
TSEN54	0.19	0.737133	0.961
TTC36	0.19	0.723845	0.961
UBA52	0.19	0.737133	0.961
UTP14A	0.19	0.737134	0.961
WSCD2	0.19	0.737134	0.961
ZNF556	0.19	0.723845	0.961
ZNF793	0.19	0.723845	0.961
AAMP	0.2	0.724555	0.961
ACADS	0.2	0.710633	0.961
ACTL7A	0.2	0.710633	0.961
AKR1C4	0.2	0.710633	0.961
ANKRD13B	0.2	0.710632	0.961
ANKRD37	0.2	0.710633	0.961
ANKRD9	0.2	0.710633	0.961
ANO6	0.2	0.710633	0.961
ARFGEF1	0.2	0.710633	0.961
ARSH	0.2	0.710633	0.961
ASB16	0.2	0.710633	0.961
C11orf74	0.2	0.710633	0.961
C12orf60	0.2	0.710633	0.961
C1orf195	0.2	0.710633	0.961
C20orf166	0.2	0.710632	0.961
C7	0.2	0.710633	0.961
C8orf87	0.2	0.710633	0.961
CALB1	0.2	0.710632	0.961
CARD17	0.2	0.724555	0.961
CCNT1	0.2	0.710633	0.961
CD7	0.2	0.710633	0.961
CHMP1B	0.2	0.710633	0.961
CIR1	0.2	0.710633	0.961
CLCN6	0.2	0.710633	0.961
CNTN1	0.2	0.710633	0.961
COX14	0.2	0.724555	0.961
CPN1	0.2	0.710632	0.961
CREG2	0.2	0.710633	0.961
DLC1	0.2	0.710633	0.961
DLGAP1	0.2	0.710633	0.961
ESCO1	0.2	0.710633	0.961
FAM60A	0.2	0.710633	0.961
FBXO24	0.2	0.710632	0.961
FCGR2A	0.2	0.710633	0.961
FEM1A	0.2	0.710633	0.961
FNDC9	0.2	0.710633	0.961
FOXO4	0.2	0.710633	0.961
GEN1	0.2	0.710632	0.961

GIGYF1	0.2	0.724555	0.961
GNB4	0.2	0.710633	0.961
GNE	0.2	0.710633	0.961
GPR50	0.2	0.710632	0.961
GRTP1	0.2	0.710632	0.961
HECTD2	0.2	0.710633	0.961
HENMT1	0.2	0.710632	0.961
HES3	0.2	0.710633	0.961
HIST1H2BL	0.2	0.738965	0.961
HSPA1A	0.2	0.710633	0.961
IFNK	0.2	0.710633	0.961
IL12A	0.2	0.724555	0.961
IL20	0.2	0.710633	0.961
IL32	0.2	0.710632	0.961
ITK	0.2	0.710633	0.961
ITPKC	0.2	0.710633	0.961
KIAA1191	0.2	0.710633	0.961
KLHL33	0.2	0.710632	0.961
KRT84	0.2	0.724555	0.961
KRTAP10-1C	0.2	0.724555	0.961
LAX1	0.2	0.710632	0.961
LCAT	0.2	0.710633	0.961
LDHD	0.2	0.724555	0.961
LRRD1	0.2	0.710633	0.961
MALL	0.2	0.724555	0.961
MARCKS	0.2	0.710633	0.961
MCM10	0.2	0.710633	0.961
MCOLN2	0.2	0.710633	0.961
MDK	0.2	0.724555	0.961
MRPS26	0.2	0.710633	0.961
MYO18B	0.2	0.724555	0.961
MYO1H	0.2	0.724555	0.961
NADSYN1	0.2	0.710632	0.961
NIPSNAP3B	0.2	0.710633	0.961
NKIRAS2	0.2	0.710633	0.961
NODAL	0.2	0.710632	0.961
OR10AG1	0.2	0.710633	0.961
OR1A1	0.2	0.710633	0.961
OR52K1	0.2	0.710633	0.961
OR5K4	0.2	0.710633	0.961
OR6B1	0.2	0.710633	0.961
OR6C75	0.2	0.710633	0.961
OR6K2	0.2	0.738965	0.961
OSBPL1A	0.2	0.710633	0.961
PARP11	0.2	0.710633	0.961
PDGFC	0.2	0.710633	0.961
PILRA	0.2	0.724555	0.961

PPP4R4	0.2	0.710633	0.961
PPY	0.2	0.710632	0.961
PRH2	0.2	0.710633	0.961
PRKACB	0.2	0.710633	0.961
PRPF4B	0.2	0.724555	0.961
PSD4	0.2	0.710633	0.961
PSME1	0.2	0.710633	0.961
RAB15	0.2	0.724555	0.961
RAP2B	0.2	0.710633	0.961
RFPL1	0.2	0.710633	0.961
RIPK3	0.2	0.710633	0.961
RPL37A	0.2	0.790068	0.968
SAPCD2	0.2	0.710633	0.961
SGK2	0.2	0.710633	0.961
SKAP2	0.2	0.710633	0.961
SLC2A11	0.2	0.710632	0.961
SLC30A4	0.2	0.710633	0.961
SLC7A13	0.2	0.710633	0.961
SLITRK2	0.2	0.710632	0.961
SNTB2	0.2	0.710633	0.961
SNX14	0.2	0.710633	0.961
SRY	0.2	0.724555	0.961
TADA2B	0.2	0.710633	0.961
TBC1D3H	0.2	0.710632	0.961
TECTA	0.2	0.710633	0.961
TMEM218	0.2	0.710633	0.961
TNFRSF25	0.2	0.710633	0.961
TP53	0.2	0.724555	0.961
TRIM6	0.2	0.710633	0.961
TRNP1	0.2	0.710633	0.961
TTYH2	0.2	0.724555	0.961
UBE2V1	0.2	0.710633	0.961
UNC5CL	0.2	0.710633	0.961
USP17L12	0.2	0.710633	0.961
USP34	0.2	0.710633	0.961
XYLT1	0.2	0.710633	0.961
ZDHHC21	0.2	0.710633	0.961
ZNF180	0.2	0.710633	0.961
ZNF212	0.2	0.710633	0.961
ZNF324B	0.2	0.710633	0.961
ZNF441	0.2	0.710633	0.961
ZNF449	0.2	0.710632	0.961
ZNF782	0.2	0.710633	0.961
ZNF816-ZNF	0.2	0.710633	0.961
ACOT13	0.21	0.697517	0.961
ACTA2	0.21	0.697518	0.961
ANKMY1	0.21	0.697517	0.961

ANKRD10	0.21	0.712078	0.961
ARID3B	0.21	0.726968	0.961
ARID3C	0.21	0.697518	0.961
ARSJ	0.21	0.697517	0.961
ATP11A	0.21	0.697517	0.961
ATP1A1	0.21	0.712079	0.961
ATRAID	0.21	0.697517	0.961
BLVRB	0.21	0.697517	0.961
BRIX1	0.21	0.697518	0.961
C2orf83	0.21	0.697518	0.961
C5orf24	0.21	0.697518	0.961
CAMSAP2	0.21	0.697517	0.961
CAPN3	0.21	0.697518	0.961
CCDC136	0.21	0.697517	0.961
CCDC149	0.21	0.697517	0.961
CD1A	0.21	0.697517	0.961
CD300LF	0.21	0.697518	0.961
CD40LG	0.21	0.697517	0.961
CEACAM8	0.21	0.697518	0.961
CENPB	0.21	0.697518	0.961
CFHR1	0.21	0.697517	0.961
CHUK	0.21	0.697517	0.961
CLNS1A	0.21	0.697517	0.961
COX7A1	0.21	0.697518	0.961
COX8C	0.21	0.726968	0.961
CTSD	0.21	0.712079	0.961
CYLC2	0.21	0.697517	0.961
DISP2	0.21	0.697518	0.961
DNMT1	0.21	0.697517	0.961
ENPP1	0.21	0.697517	0.961
FADS2	0.21	0.712078	0.961
FAM218A	0.21	0.697517	0.961
FGFBP1	0.21	0.697517	0.961
FOXD3	0.21	0.697517	0.961
GPKOW	0.21	0.697517	0.961
GREB1L	0.21	0.697517	0.961
HES5	0.21	0.697517	0.961
HINT1	0.21	0.697517	0.961
HIST1H3I	0.21	0.697517	0.961
HIVEP1	0.21	0.712078	0.961
HN1	0.21	0.697517	0.961
HNF1A	0.21	0.697517	0.961
HPCAL4	0.21	0.697517	0.961
HTRA2	0.21	0.697517	0.961
IDE	0.21	0.697517	0.961
IFRD1	0.21	0.697518	0.961
INPP1	0.21	0.697518	0.961

ISCA2	0.21	0.712079	0.961
ITGB1	0.21	0.697517	0.961
IZUMO1R	0.21	0.697517	0.961
KCNK16	0.21	0.697517	0.961
KIF5B	0.21	0.697517	0.961
KLRC2	0.21	0.697517	0.961
KRTAP4-3	0.21	0.697517	0.961
LDB1	0.21	0.697518	0.961
LGALS13	0.21	0.697517	0.961
LMBRD2	0.21	0.697517	0.961
LMO2	0.21	0.697518	0.961
MAFB	0.21	0.697517	0.961
MAN1C1	0.21	0.712079	0.961
MIEF2	0.21	0.697517	0.961
MMP9	0.21	0.712079	0.961
MOCOS	0.21	0.712079	0.961
MRPL10	0.21	0.712078	0.961
MRPL16	0.21	0.726968	0.961
MTRNR2L1C	0.21	0.726968	0.961
MTRR	0.21	0.697517	0.961
NAP1L4	0.21	0.697517	0.961
NGF	0.21	0.712079	0.961
NOC4L	0.21	0.697517	0.961
NUP88	0.21	0.697518	0.961
NXF1	0.21	0.743697	0.961
OR1C1	0.21	0.712079	0.961
OR2S2	0.21	0.697517	0.961
OR4D5	0.21	0.697517	0.961
OR5D16	0.21	0.697517	0.961
OR8G2	0.21	0.697517	0.961
PLCE1	0.21	0.697517	0.961
PMPCB	0.21	0.697518	0.961
POLDIP2	0.21	0.712078	0.961
PPM1E	0.21	0.712078	0.961
PPP1R36	0.21	0.697517	0.961
PTPRJ	0.21	0.697517	0.961
RABEP2	0.21	0.697518	0.961
RABL5	0.21	0.697517	0.961
RASSF6	0.21	0.697517	0.961
RNMTL1	0.21	0.697517	0.961
ROPN1L	0.21	0.697518	0.961
SCRT1	0.21	0.712078	0.961
SDR9C7	0.21	0.697517	0.961
SIGLEC14	0.21	0.697517	0.961
SLC43A1	0.21	0.697517	0.961
SLC6A17	0.21	0.697517	0.961
SP5	0.21	0.697517	0.961

SRD5A2	0.21	0.697517	0.961
SYK	0.21	0.697517	0.961
SYNM	0.21	0.712079	0.961
SYTL4	0.21	0.697518	0.961
TAGAP	0.21	0.697517	0.961
TES	0.21	0.697517	0.961
THEM6	0.21	0.697517	0.961
TIMELESS	0.21	0.726969	0.961
TLR9	0.21	0.712079	0.961
TRAF3IP1	0.21	0.712079	0.961
TSSK6	0.21	0.697517	0.961
TTL10	0.21	0.712079	0.961
TWF2	0.21	0.697517	0.961
UQCRC2	0.21	0.726969	0.961
USH1C	0.21	0.697517	0.961
USP12	0.21	0.697517	0.961
UTP3	0.21	0.697517	0.961
VCAM1	0.21	0.697517	0.961
VWA3B	0.21	0.697517	0.961
WIPF2	0.21	0.697517	0.961
WNT5A	0.21	0.697517	0.961
XYLT2	0.21	0.712079	0.961
YIPF1	0.21	0.697517	0.961
ZMYND19	0.21	0.697517	0.961
ZNF101	0.21	0.697517	0.961
ZNF256	0.21	0.697517	0.961
ZNF596	0.21	0.697517	0.961
ZNF677	0.21	0.697517	0.961
ZNF771	0.21	0.726969	0.961
AGAP3	0.22	0.684515	0.961
AGMAT	0.22	0.684514	0.961
AGO1	0.22	0.684514	0.961
ANO9	0.22	0.684514	0.961
AP3M1	0.22	0.684514	0.961
APC	0.22	0.684514	0.961
ASCL5	0.22	0.699628	0.961
ASMT	0.22	0.684514	0.961
B9D1	0.22	0.684515	0.961
BAIAP3	0.22	0.684515	0.961
C14orf142	0.22	0.684514	0.961
C14orf39	0.22	0.684515	0.961
C2orf50	0.22	0.699627	0.961
C5orf58	0.22	0.699627	0.961
C7orf50	0.22	0.699627	0.961
CCDC129	0.22	0.684515	0.961
CCDC159	0.22	0.699627	0.961
CCDC175	0.22	0.684514	0.961

CCDC51	0.22	0.684514	0.961
CCT5	0.22	0.732344	0.961
CD22	0.22	0.715119	0.961
CD84	0.22	0.684514	0.961
CDKN1A	0.22	0.684514	0.961
CHFR	0.22	0.684514	0.961
CHRNG	0.22	0.699627	0.961
CLDND2	0.22	0.684515	0.961
CNKSR3	0.22	0.684514	0.961
CNNM4	0.22	0.684515	0.961
CPS1	0.22	0.684515	0.961
CRYGN	0.22	0.699627	0.961
CSDE1	0.22	0.684515	0.961
CSH2	0.22	0.684514	0.961
CXorf36	0.22	0.684514	0.961
CXorf56	0.22	0.699627	0.961
DHX30	0.22	0.699628	0.961
DNAJC5G	0.22	0.684514	0.961
EBF4	0.22	0.684515	0.961
EPHB6	0.22	0.684514	0.961
EPYC	0.22	0.699627	0.961
FAM161B	0.22	0.684514	0.961
FAM86B2	0.22	0.684514	0.961
FAM98A	0.22	0.684515	0.961
FBXO34	0.22	0.684514	0.961
FTCD	0.22	0.699627	0.961
G6PD	0.22	0.684515	0.961
GALNT9	0.22	0.684514	0.961
GCSH	0.22	0.684514	0.961
GDPD5	0.22	0.684514	0.961
GRN	0.22	0.684515	0.961
HIP1R	0.22	0.684514	0.961
HIST1H4E	0.22	0.684514	0.961
HOXD11	0.22	0.684514	0.961
IFNA2	0.22	0.684514	0.961
IFNA7	0.22	0.684515	0.961
IFT74	0.22	0.699627	0.961
IL22RA1	0.22	0.699628	0.961
IMP3	0.22	0.732344	0.961
INSL6	0.22	0.684514	0.961
IQUB	0.22	0.684514	0.961
ITIH2	0.22	0.684514	0.961
KCNJ13	0.22	0.684514	0.961
KIAA0226	0.22	0.699627	0.961
KIAA0408	0.22	0.684514	0.961
KIAA1324	0.22	0.699627	0.961
LARP4B	0.22	0.684515	0.961

LARP7	0.22	0.684515	0.961
LRRC17	0.22	0.684515	0.961
LYG1	0.22	0.684514	0.961
MAGEA4	0.22	0.684515	0.961
MAGEC1	0.22	0.684515	0.961
MAP1LC3A	0.22	0.699628	0.961
MDH1B	0.22	0.684514	0.961
MSLN	0.22	0.684515	0.961
MYH13	0.22	0.715119	0.961
NAP1L3	0.22	0.684514	0.961
NAT14	0.22	0.684515	0.961
NEK2	0.22	0.684515	0.961
NELL1	0.22	0.684514	0.961
OR1E1	0.22	0.684514	0.961
OR5AK2	0.22	0.684514	0.961
P4HA2	0.22	0.684514	0.961
PARP12	0.22	0.684514	0.961
PAX6	0.22	0.684514	0.961
PHF21A	0.22	0.684515	0.961
PITX1	0.22	0.684514	0.961
PLA2R1	0.22	0.684514	0.961
PLAC9	0.22	0.684515	0.961
PLTP	0.22	0.684514	0.961
POC5	0.22	0.684515	0.961
POTEG	0.22	0.684514	0.961
RAI14	0.22	0.684514	0.961
RGPD1	0.22	0.684514	0.961
RGS5	0.22	0.684515	0.961
RNF121	0.22	0.715119	0.961
RNF139	0.22	0.684515	0.961
RPS15	0.22	0.715119	0.961
RPUSD2	0.22	0.684514	0.961
SAA1	0.22	0.684514	0.961
SFTPC	0.22	0.684514	0.961
SHE	0.22	0.684514	0.961
SLC35D3	0.22	0.684515	0.961
SLC35F5	0.22	0.684515	0.961
SLC44A5	0.22	0.684515	0.961
SLITRK4	0.22	0.684514	0.961
SMC1A	0.22	0.715119	0.961
SNTB1	0.22	0.684515	0.961
SPANXN4	0.22	0.684515	0.961
SPATA25	0.22	0.684514	0.961
SSX4	0.22	0.684514	0.961
SSX4B	0.22	0.684514	0.961
SULT1C2	0.22	0.699627	0.961
SUN2	0.22	0.699627	0.961

SUSD4	0.22	0.684514	0.961
SYN2	0.22	0.684515	0.961
SYT14	0.22	0.684514	0.961
TADA3	0.22	0.699627	0.961
TMEM204	0.22	0.684514	0.961
TNKS1BP1	0.22	0.699627	0.961
TRIP6	0.22	0.684514	0.961
TRMT1	0.22	0.684514	0.961
TXN2	0.22	0.684514	0.961
TYW1B	0.22	0.684514	0.961
UCP1	0.22	0.684515	0.961
VAMP4	0.22	0.684515	0.961
WWTR1	0.22	0.684514	0.961
ZMYND15	0.22	0.684515	0.961
ZNF331	0.22	0.684514	0.961
ZNF366	0.22	0.684514	0.961
ZNF469	0.22	0.684514	0.961
ZNRF3	0.22	0.684514	0.961
ZSWIM2	0.22	0.684514	0.961
AMN1	0.23	0.671565	0.961
ANO7	0.23	0.671565	0.961
AOX1	0.23	0.671565	0.961
ARPC4	0.23	0.671565	0.961
C18orf25	0.23	0.671565	0.961
C2orf61	0.23	0.687233	0.961
C5orf66	0.23	0.671565	0.961
C8orf34	0.23	0.671565	0.961
CACNA1I	0.23	0.687232	0.961
CALHM1	0.23	0.671565	0.961
CCBL1	0.23	0.687233	0.961
CCDC79	0.23	0.671565	0.961
CCL7	0.23	0.671565	0.961
CDC42BPA	0.23	0.671565	0.961
CDPF1	0.23	0.671565	0.961
CHST3	0.23	0.671565	0.961
CIB3	0.23	0.671565	0.961
CRISPLD2	0.23	0.671565	0.961
CRNKL1	0.23	0.671565	0.961
CRYZ	0.23	0.671565	0.961
CYFIP1	0.23	0.671565	0.961
CYFIP2	0.23	0.671565	0.961
CYP17A1	0.23	0.671565	0.961
DAD1	0.23	0.687233	0.961
DCK	0.23	0.671565	0.961
DDIT4L	0.23	0.671565	0.961
DHX33	0.23	0.703417	0.961
EDN2	0.23	0.687233	0.961

EIF2B5	0.23	0.687233	0.961
FAN1	0.23	0.671565	0.961
FARS2	0.23	0.671565	0.961
FBLN5	0.23	0.671565	0.961
FBXO32	0.23	0.671565	0.961
GALNT16	0.23	0.671565	0.961
GIPC3	0.23	0.671565	0.961
GLDN	0.23	0.671565	0.961
GLUD1	0.23	0.671565	0.961
GPR157	0.23	0.687233	0.961
GRK7	0.23	0.671565	0.961
GRP	0.23	0.671565	0.961
GSC	0.23	0.671565	0.961
GSTM5	0.23	0.671565	0.961
HES7	0.23	0.671565	0.961
HIC2	0.23	0.671565	0.961
HOGA1	0.23	0.687233	0.961
HS6ST1	0.23	0.671565	0.961
HSPG2	0.23	0.671565	0.961
IFI6	0.23	0.671565	0.961
IFITM3	0.23	0.687233	0.961
IL17A	0.23	0.671565	0.961
IL5	0.23	0.671565	0.961
INPP5J	0.23	0.671565	0.961
JUND	0.23	0.671565	0.961
KAT7	0.23	0.671565	0.961
KCNJ14	0.23	0.671565	0.961
KCNMB1	0.23	0.671565	0.961
KCNN3	0.23	0.671565	0.961
KCNS3	0.23	0.671565	0.961
KDM4C	0.23	0.671565	0.961
KLC3	0.23	0.687232	0.961
KLHL38	0.23	0.671565	0.961
KRTAP12-4	0.23	0.671565	0.961
KRTAP1-3	0.23	0.687233	0.961
KRTAP21-1	0.23	0.671565	0.961
LARGE	0.23	0.687233	0.961
LCN6	0.23	0.671565	0.961
LIMA1	0.23	0.671565	0.961
LRRC4B	0.23	0.671565	0.961
LRRC74B	0.23	0.703417	0.961
LY6G6D	0.23	0.671565	0.961
LYRM2	0.23	0.687233	0.961
MFHAS1	0.23	0.671565	0.961
MFN1	0.23	0.671565	0.961
MGAM	0.23	0.671565	0.961
MGAM2	0.23	0.671565	0.961

MICU3	0.23	0.671565	0.961
MOGAT2	0.23	0.671565	0.961
MSRB1	0.23	0.671565	0.961
MYO15B	0.23	0.671565	0.961
NDUFA8	0.23	0.671565	0.961
NHLRC1	0.23	0.671565	0.961
NLRP8	0.23	0.671565	0.961
NUPR1	0.23	0.687233	0.961
OR13D1	0.23	0.671565	0.961
PAFAH1B2	0.23	0.687233	0.961
PLEKHG4	0.23	0.671565	0.961
PLEKHG7	0.23	0.671565	0.961
POLE2	0.23	0.721219	0.961
PTP4A1	0.23	0.671565	0.961
PWWP2A	0.23	0.671565	0.961
RASSF9	0.23	0.671565	0.961
RGS9BP	0.23	0.671565	0.961
RNF5	0.23	0.671565	0.961
RSF1	0.23	0.687233	0.961
RSPH1	0.23	0.671565	0.961
SCN2A	0.23	0.671565	0.961
SEH1L	0.23	0.671565	0.961
SEMA6B	0.23	0.671565	0.961
SERPINF1	0.23	0.687233	0.961
SKIDA1	0.23	0.671565	0.961
SLC38A2	0.23	0.671565	0.961
SSX2	0.23	0.671565	0.961
SSX2B	0.23	0.671565	0.961
STT3B	0.23	0.671565	0.961
SUPT6H	0.23	0.687233	0.961
SUPT7L	0.23	0.671565	0.961
SYTL2	0.23	0.671565	0.961
TAPBP	0.23	0.671565	0.961
TAX1BP3	0.23	0.671565	0.961
TLDC2	0.23	0.671565	0.961
TMED5	0.23	0.671565	0.961
TMEM43	0.23	0.671565	0.961
TNFSF9	0.23	0.671565	0.961
TP53I11	0.23	0.671565	0.961
TRIM73	0.23	0.687233	0.961
UTP18	0.23	0.687233	0.961
VCX	0.23	0.671565	0.961
WDFY3	0.23	0.671565	0.961
WWC1	0.23	0.671565	0.961
XRN1	0.23	0.671565	0.961
ZKSCAN2	0.23	0.671565	0.961
AGAP2	0.24	0.658714	0.958

AKR1B10	0.24	0.658715	0.958
ANO8	0.24	0.658715	0.958
ARHGAP11/	0.24	0.658714	0.958
ARHGEF37	0.24	0.658714	0.958
ATXN2	0.24	0.658714	0.958
C14orf178	0.24	0.658714	0.958
CALHM2	0.24	0.674938	0.961
CCDC105	0.24	0.658715	0.958
CD164L2	0.24	0.658714	0.958
CHTOP	0.24	0.658714	0.958
CLCNKB	0.24	0.658714	0.958
COMMD6	0.24	0.658714	0.958
DDX41	0.24	0.658714	0.958
DEFB114	0.24	0.729558	0.961
DOC2B	0.24	0.658715	0.958
EMILIN1	0.24	0.674938	0.961
EMILIN2	0.24	0.658714	0.958
ETAA1	0.24	0.658714	0.958
FAM19A4	0.24	0.658714	0.958
FAM86C1	0.24	0.658714	0.958
FAM8A1	0.24	0.674938	0.961
FREM3	0.24	0.658714	0.958
FUT8	0.24	0.658714	0.958
GAA	0.24	0.658715	0.958
GJB4	0.24	0.658714	0.958
GPX7	0.24	0.658714	0.958
GRSF1	0.24	0.658714	0.958
GRXCR2	0.24	0.674938	0.961
HS3ST3B1	0.24	0.674938	0.961
HTR6	0.24	0.658715	0.958
IQCD	0.24	0.658714	0.958
KIAA1024L	0.24	0.658714	0.958
KRCC1	0.24	0.658714	0.958
KRT20	0.24	0.658714	0.958
KRTAP4-4	0.24	0.674939	0.961
LAMTOR3	0.24	0.658715	0.958
LCTL	0.24	0.658714	0.958
MAD2L2	0.24	0.658714	0.958
MAFG	0.24	0.674939	0.961
MCM2	0.24	0.710172	0.961
MED19	0.24	0.674938	0.961
MMP7	0.24	0.658715	0.958
MPG	0.24	0.658715	0.958
MR1	0.24	0.658714	0.958
MTRF1L	0.24	0.658714	0.958
MYLPF	0.24	0.658714	0.958
NIPAL2	0.24	0.658714	0.958

NMS	0.24	0.658714	0.958
NOL8	0.24	0.658714	0.958
NPIP5	0.24	0.658714	0.958
NRDE2	0.24	0.674938	0.961
OR10C1	0.24	0.658714	0.958
OR13J1	0.24	0.658715	0.958
OR2H1	0.24	0.658714	0.958
OR2T8	0.24	0.658714	0.958
OTUD4	0.24	0.658714	0.958
PARD6A	0.24	0.674938	0.961
PDIA5	0.24	0.658715	0.958
PHKA2	0.24	0.658714	0.958
PKDCC	0.24	0.658715	0.958
PPP1R13B	0.24	0.658715	0.958
PPP2R1B	0.24	0.658714	0.958
PRAMEF7	0.24	0.658714	0.958
PTGR1	0.24	0.658714	0.958
RHCG	0.24	0.658714	0.958
RHNO1	0.24	0.658714	0.958
RHOT2	0.24	0.658714	0.958
RNGTT	0.24	0.691671	0.961
RPS27L	0.24	0.658714	0.958
RPS4Y1	0.24	0.658714	0.958
SDC3	0.24	0.658714	0.958
SEC14L2	0.24	0.658715	0.958
SH3BGR1	0.24	0.658714	0.958
SIMC1	0.24	0.69167	0.961
SLC13A1	0.24	0.658714	0.958
SLC36A3	0.24	0.658715	0.958
SNRNP27	0.24	0.658714	0.958
SPATA16	0.24	0.658715	0.958
SPZ1	0.24	0.674938	0.961
SYNDIG1	0.24	0.658714	0.958
TBXAS1	0.24	0.658714	0.958
TCP10L	0.24	0.658714	0.958
TDRD1	0.24	0.658714	0.958
TENC1	0.24	0.69167	0.961
TENM2	0.24	0.658714	0.958
TIGD4	0.24	0.658714	0.958
TMCO1	0.24	0.658714	0.958
TNFRSF1B	0.24	0.658715	0.958
TRIM63	0.24	0.658714	0.958
TUBE1	0.24	0.658714	0.958
VAR2	0.24	0.658714	0.958
VTA1	0.24	0.658714	0.958
ZBTB2	0.24	0.674938	0.961
ZBTB4	0.24	0.69167	0.961

ZG16B	0.24	0.658715	0.958
ZNF804A	0.24	0.658714	0.958
ABCA13	0.25	0.645965	0.954
ALAS2	0.25	0.645965	0.954
ALPPL2	0.25	0.645966	0.954
APOL3	0.25	0.645965	0.954
ATP6V0E2	0.25	0.645965	0.954
B2M	0.25	0.645965	0.954
BTBD2	0.25	0.645965	0.954
C16orf95	0.25	0.645965	0.954
CACNG7	0.25	0.645966	0.954
CAMK1	0.25	0.645966	0.954
CBX4	0.25	0.645965	0.954
CCDC108	0.25	0.645965	0.954
CCDC30	0.25	0.66268	0.961
COPS7B	0.25	0.645965	0.954
CPM	0.25	0.645965	0.954
CXCR3	0.25	0.645966	0.954
DDX60	0.25	0.645966	0.954
DEFA6	0.25	0.645965	0.954
DHRS2	0.25	0.645965	0.954
EPHB2	0.25	0.645965	0.954
ERCC4	0.25	0.66268	0.961
FAM186A	0.25	0.66268	0.961
FAP	0.25	0.645966	0.954
FBXL8	0.25	0.645965	0.954
FMO2	0.25	0.662679	0.961
HDC	0.25	0.645965	0.954
HTR1D	0.25	0.645966	0.954
IFI27L1	0.25	0.645965	0.954
IFT140	0.25	0.645966	0.954
INPP4A	0.25	0.645965	0.954
KCNIP2	0.25	0.645965	0.954
KDEL1C	0.25	0.645966	0.954
KLF12	0.25	0.645965	0.954
KLK13	0.25	0.645965	0.954
KNSTRN	0.25	0.645966	0.954
KRTAP10-12	0.25	0.66268	0.961
LAMP5	0.25	0.645965	0.954
LDLRAD2	0.25	0.645965	0.954
LIN52	0.25	0.645965	0.954
LIPF	0.25	0.645965	0.954
LOC728485	0.25	0.699278	0.961
LST1	0.25	0.645965	0.954
LYRM4	0.25	0.645965	0.954
MAGEA10	0.25	0.645965	0.954
MCMDC2	0.25	0.645965	0.954

MDN1	0.25	0.680101	0.961
MEDAG	0.25	0.645965	0.954
MOB3C	0.25	0.645965	0.954
MRFAP1L1	0.25	0.66268	0.961
MTPN	0.25	0.645966	0.954
MYO5C	0.25	0.645965	0.954
NDUFS5	0.25	0.66268	0.961
NT5C3A	0.25	0.645965	0.954
NUP210	0.25	0.645965	0.954
OR1L4	0.25	0.645965	0.954
OR4A16	0.25	0.645966	0.954
OR5F1	0.25	0.645966	0.954
P2RY14	0.25	0.645965	0.954
PC	0.25	0.645965	0.954
PGLYRP1	0.25	0.645965	0.954
PICK1	0.25	0.645966	0.954
PIK3CB	0.25	0.645965	0.954
PIR	0.25	0.645965	0.954
PPEF1	0.25	0.645965	0.954
PPEF2	0.25	0.645965	0.954
PRIMA1	0.25	0.645965	0.954
PTGES3L-A	0.25	0.645965	0.954
PTPRK	0.25	0.645965	0.954
PVRL3	0.25	0.645965	0.954
PWP1	0.25	0.645965	0.954
R3HDM1	0.25	0.645965	0.954
RAMP3	0.25	0.645965	0.954
RDX	0.25	0.645965	0.954
RGS19	0.25	0.645965	0.954
RHD	0.25	0.645965	0.954
RIPPLY3	0.25	0.645965	0.954
RNF130	0.25	0.645965	0.954
RTP3	0.25	0.645965	0.954
RWDD2B	0.25	0.645965	0.954
SAP30L	0.25	0.66268	0.961
SLC25A4	0.25	0.645965	0.954
SOX17	0.25	0.645965	0.954
SPATA2L	0.25	0.680101	0.961
SYT11	0.25	0.645966	0.954
TCTA	0.25	0.645965	0.954
TDGF1	0.25	0.645965	0.954
TNFRSF13C	0.25	0.645965	0.954
TOR4A	0.25	0.645965	0.954
TRIM33	0.25	0.645965	0.954
TRIM68	0.25	0.645965	0.954
TSG101	0.25	0.645965	0.954
TWIST2	0.25	0.645966	0.954

UBL5	0.25	0.719277	0.961
UGT2B11	0.25	0.645966	0.954
WFDC13	0.25	0.645966	0.954
ZBTB40	0.25	0.645965	0.954
ZNF234	0.25	0.645965	0.954
ZNF24	0.25	0.645965	0.954
ZNF358	0.25	0.645965	0.954
ZNF471	0.25	0.645965	0.954
ZNF557	0.25	0.645965	0.954
ZNF561	0.25	0.66268	0.961
ZNF707	0.25	0.645965	0.954
ZNF780B	0.25	0.645965	0.954
A3GALT2	0.26	0.633308	0.951
ADAT3	0.26	0.633307	0.951
AIF1	0.26	0.633307	0.951
ALDH1L1	0.26	0.633307	0.951
ANGPTL3	0.26	0.633307	0.951
ANKRD12	0.26	0.633308	0.951
ASGR1	0.26	0.633308	0.951
C16orf89	0.26	0.633307	0.951
C16orf96	0.26	0.633308	0.951
C18orf32	0.26	0.732307	0.961
C18orf65	0.26	0.650534	0.958
C1orf127	0.26	0.633308	0.951
C6orf229	0.26	0.633307	0.951
CAND1	0.26	0.633308	0.951
CARD16	0.26	0.633308	0.951
CD81	0.26	0.633308	0.951
CDC25C	0.26	0.633308	0.951
CDH1	0.26	0.633308	0.951
CLCN4	0.26	0.633308	0.951
COA5	0.26	0.668652	0.961
COA6	0.26	0.633307	0.951
CRYAA	0.26	0.633307	0.951
CSPG5	0.26	0.633308	0.951
CTBS	0.26	0.633307	0.951
CTSB	0.26	0.633307	0.951
CTTN	0.26	0.650534	0.958
CXCL11	0.26	0.650534	0.958
DEF6	0.26	0.633308	0.951
DEFB113	0.26	0.633308	0.951
DHRS9	0.26	0.633307	0.951
DKK4	0.26	0.633308	0.951
DNAJC28	0.26	0.633307	0.951
ESRRA	0.26	0.633308	0.951
F7	0.26	0.633308	0.951
FAM124A	0.26	0.633308	0.951

FAM184B	0.26	0.633307	0.951
FAM21C	0.26	0.633307	0.951
FAM65A	0.26	0.633308	0.951
FBXL18	0.26	0.633308	0.951
FDCSP	0.26	0.650534	0.958
FGFR10P2	0.26	0.633308	0.951
FOLH1	0.26	0.633308	0.951
GABARAPL1	0.26	0.633308	0.951
GIPR	0.26	0.633308	0.951
GLYAT	0.26	0.633308	0.951
GPR108	0.26	0.633307	0.951
HERPUD1	0.26	0.633308	0.951
HOXA13	0.26	0.633308	0.951
HOXB1	0.26	0.650534	0.958
HSPB1	0.26	0.633308	0.951
IGFBP5	0.26	0.633308	0.951
IGFL3	0.26	0.633308	0.951
KIF23	0.26	0.650534	0.958
KIF3C	0.26	0.633307	0.951
KISS1R	0.26	0.633307	0.951
KLRC4	0.26	0.633308	0.951
KRT82	0.26	0.633308	0.951
KRTAP22-1	0.26	0.633308	0.951
LHX6	0.26	0.633307	0.951
LILRB3	0.26	0.633308	0.951
LIMCH1	0.26	0.633308	0.951
LIPI	0.26	0.633308	0.951
LOXL4	0.26	0.650534	0.958
MED28	0.26	0.633308	0.951
MPDZ	0.26	0.650534	0.958
NCKAP1L	0.26	0.633307	0.951
NUDT22	0.26	0.668652	0.961
OR8J3	0.26	0.650534	0.958
PCNT	0.26	0.633307	0.951
PCSK1	0.26	0.633308	0.951
PNN	0.26	0.650534	0.958
POMK	0.26	0.633308	0.951
PPP3R2	0.26	0.633308	0.951
PRR7	0.26	0.633308	0.951
PTH1R	0.26	0.633307	0.951
RCSD1	0.26	0.633308	0.951
RDH14	0.26	0.633307	0.951
RHOBTB2	0.26	0.633308	0.951
RNASEK	0.26	0.650534	0.958
RTN4IP1	0.26	0.633308	0.951
S100A16	0.26	0.633307	0.951
SAP30	0.26	0.633308	0.951

SCGB2A2	0.26	0.633308	0.951
SEC14L4	0.26	0.633308	0.951
SIX1	0.26	0.650534	0.958
SLC10A5	0.26	0.633307	0.951
SLC36A2	0.26	0.633308	0.951
SLC9A6	0.26	0.633308	0.951
SNCAIP	0.26	0.633308	0.951
SPTBN5	0.26	0.633308	0.951
SRGN	0.26	0.633308	0.951
SSTR1	0.26	0.633307	0.951
STXBP3	0.26	0.633307	0.951
SURF6	0.26	0.668652	0.961
TMEM154	0.26	0.650534	0.958
TMEM82	0.26	0.650534	0.958
TMEM91	0.26	0.633308	0.951
TPRKB	0.26	0.650534	0.958
TRAF4	0.26	0.633308	0.951
TRIML1	0.26	0.633307	0.951
TTC39A	0.26	0.650534	0.958
TUBA3C	0.26	0.633308	0.951
URGCP	0.26	0.633307	0.951
USP17L19	0.26	0.688333	0.961
VAV2	0.26	0.633307	0.951
WDFY4	0.26	0.633308	0.951
WDR65	0.26	0.633308	0.951
ZBED6	0.26	0.633308	0.951
ZNF227	0.26	0.633307	0.951
ZNF674	0.26	0.633308	0.951
AADA4L4	0.27	0.620808	0.948
ADD3	0.27	0.620808	0.948
ANKRD28	0.27	0.620808	0.948
ARSA	0.27	0.620808	0.948
ATXN7	0.27	0.620808	0.948
BCAS4	0.27	0.620808	0.948
C15orf39	0.27	0.638508	0.954
C15orf62	0.27	0.620808	0.948
C2orf16	0.27	0.620808	0.948
CACNA1H	0.27	0.620808	0.948
CADM4	0.27	0.620808	0.948
CAMKMT	0.27	0.620808	0.948
CASK	0.27	0.620808	0.948
CBR4	0.27	0.620808	0.948
CBWD3	0.27	0.620808	0.948
CDC42EP5	0.27	0.620808	0.948
CDT1	0.27	0.677367	0.961
DAPK1	0.27	0.620808	0.948
DCBLD2	0.27	0.657214	0.958

DIABLO	0.27	0.620808	0.948
DNASE1	0.27	0.620808	0.948
DRAM2	0.27	0.620808	0.948
DXO	0.27	0.638509	0.954
EDEM3	0.27	0.620808	0.948
EEF1A1	0.27	0.620808	0.948
EIF3CL	0.27	0.620808	0.948
EMP3	0.27	0.620808	0.948
FAM47B	0.27	0.620808	0.948
FAM86A	0.27	0.620808	0.948
FBLN2	0.27	0.620808	0.948
FRG2	0.27	0.638508	0.954
FZD6	0.27	0.620808	0.948
G6PC3	0.27	0.620808	0.948
GABRR2	0.27	0.620808	0.948
GGCT	0.27	0.620808	0.948
GJC2	0.27	0.620808	0.948
GNA12	0.27	0.620808	0.948
GNL2	0.27	0.620808	0.948
GPR31	0.27	0.620808	0.948
GPR68	0.27	0.620808	0.948
GRID1	0.27	0.620808	0.948
HCN4	0.27	0.620808	0.948
HDAC6	0.27	0.620808	0.948
HMG20B	0.27	0.620808	0.948
HS1BP3	0.27	0.638509	0.954
IL31	0.27	0.620808	0.948
ITM2A	0.27	0.620808	0.948
KAAG1	0.27	0.638508	0.954
KIAA0020	0.27	0.657213	0.958
KIAA0141	0.27	0.620808	0.948
KLHDC3	0.27	0.620808	0.948
LAMTOR2	0.27	0.620808	0.948
LDLRAD4	0.27	0.638509	0.954
LINGO2	0.27	0.620808	0.948
LITAF	0.27	0.620808	0.948
LRFN1	0.27	0.638508	0.954
LRRIQ4	0.27	0.638509	0.954
LRRTM1	0.27	0.620808	0.948
MBL2	0.27	0.620808	0.948
ME2	0.27	0.620808	0.948
MFAP5	0.27	0.620808	0.948
MOSPD3	0.27	0.638509	0.954
MRPL14	0.27	0.620808	0.948
MSANTD1	0.27	0.620808	0.948
MTL5	0.27	0.620808	0.948
NAALAD2	0.27	0.620808	0.948

NAP1L1	0.27	0.638509	0.954
NDST1	0.27	0.620808	0.948
NUDT5	0.27	0.638509	0.954
OR10AD1	0.27	0.620808	0.948
OR10X1	0.27	0.638508	0.954
PFDN5	0.27	0.620808	0.948
PFN4	0.27	0.620808	0.948
PLEKHO1	0.27	0.620808	0.948
POU6F2	0.27	0.620808	0.948
PSMD9	0.27	0.620808	0.948
PXT1	0.27	0.620808	0.948
RBM8A	0.27	0.638508	0.954
REG3G	0.27	0.620808	0.948
RELT	0.27	0.620808	0.948
REM2	0.27	0.620808	0.948
RLN1	0.27	0.620808	0.948
RPS2	0.27	0.620808	0.948
SCARA5	0.27	0.620808	0.948
SERPINB4	0.27	0.620808	0.948
SHPRH	0.27	0.620808	0.948
SIGLEC12	0.27	0.620808	0.948
SIT1	0.27	0.620808	0.948
SLC10A3	0.27	0.620808	0.948
SLC9A8	0.27	0.620808	0.948
SNX21	0.27	0.620808	0.948
SPINK4	0.27	0.620808	0.948
STAP1	0.27	0.620808	0.948
STC2	0.27	0.620808	0.948
TAF7L	0.27	0.620808	0.948
TBC1D26	0.27	0.638509	0.954
TINAGL1	0.27	0.620808	0.948
TLL1	0.27	0.620808	0.948
TMEM135	0.27	0.620808	0.948
TNFRSF14	0.27	0.620808	0.948
TRPM1	0.27	0.620808	0.948
UBC	0.27	0.620808	0.948
UBE2NL	0.27	0.620808	0.948
UGT2B10	0.27	0.620808	0.948
UNC119	0.27	0.620808	0.948
UQCR10	0.27	0.620808	0.948
VPS39	0.27	0.620808	0.948
VRK2	0.27	0.620808	0.948
WDYHV1	0.27	0.620808	0.948
XPO4	0.27	0.620808	0.948
ZFR2	0.27	0.638509	0.954
ZNF174	0.27	0.620808	0.948
ZNF442	0.27	0.620808	0.948

ZNF483	0.27	0.620808	0.948
ZNF541	0.27	0.638508	0.954
ZNF844	0.27	0.620808	0.948
ACSM2A	0.28	0.608465	0.947
ACSM2B	0.28	0.608465	0.947
ADPRH	0.28	0.608464	0.947
AGAP5	0.28	0.608465	0.947
ARHGEF40	0.28	0.608465	0.947
ASGR2	0.28	0.608465	0.947
ATP5H	0.28	0.608465	0.947
BAGE	0.28	0.740467	0.961
BAGE2	0.28	0.740467	0.961
BAGE3	0.28	0.740467	0.961
BAGE4	0.28	0.740467	0.961
BAGE5	0.28	0.740467	0.961
BMP1	0.28	0.6266	0.951
BTNL3	0.28	0.608465	0.947
C12orf10	0.28	0.608465	0.947
C3orf18	0.28	0.608464	0.947
C5AR1	0.28	0.6266	0.951
CABP5	0.28	0.608464	0.947
CAPS2	0.28	0.608465	0.947
CCDC148	0.28	0.608464	0.947
CCDC88C	0.28	0.608465	0.947
CDH9	0.28	0.608465	0.947
CDSN	0.28	0.6266	0.951
CECR2	0.28	0.608465	0.947
CENPP	0.28	0.626599	0.951
CHAMP1	0.28	0.608465	0.947
COQ4	0.28	0.608465	0.947
CPED1	0.28	0.608464	0.947
CTDSPL	0.28	0.608465	0.947
CXorf65	0.28	0.608465	0.947
CYP2F1	0.28	0.608464	0.947
DAO	0.28	0.6266	0.951
DCUN1D3	0.28	0.608465	0.947
DMBX1	0.28	0.608465	0.947
DOCK5	0.28	0.608465	0.947
DSCAML1	0.28	0.608465	0.947
DSN1	0.28	0.6266	0.951
DUSP8	0.28	0.608465	0.947
DUXA	0.28	0.6266	0.951
EPHA3	0.28	0.608465	0.947
F10	0.28	0.608465	0.947
FAH	0.28	0.608465	0.947
FAM166A	0.28	0.608465	0.947
FBLN7	0.28	0.608464	0.947

FGF20	0.28	0.608465	0.947
FGFR4	0.28	0.608465	0.947
FOXA1	0.28	0.608465	0.947
FSIP2	0.28	0.608465	0.947
GABRA1	0.28	0.608465	0.947
GABRA5	0.28	0.608464	0.947
GAPVD1	0.28	0.608464	0.947
GATAD1	0.28	0.608465	0.947
GHDC	0.28	0.608465	0.947
GPM6A	0.28	0.608465	0.947
GTF2H3	0.28	0.626599	0.951
HBG2	0.28	0.608465	0.947
HNRNPF	0.28	0.608465	0.947
ICA1L	0.28	0.608464	0.947
IL17RC	0.28	0.608465	0.947
IL1R1	0.28	0.608465	0.947
ITGB2	0.28	0.608465	0.947
KCNJ4	0.28	0.6266	0.951
KCTD5	0.28	0.608464	0.947
KIAA0232	0.28	0.608464	0.947
KIAA0368	0.28	0.608465	0.947
LCN10	0.28	0.64578	0.954
LIPJ	0.28	0.608464	0.947
LRP2	0.28	0.608465	0.947
MAATS1	0.28	0.608465	0.947
MPP5	0.28	0.608464	0.947
MROH5	0.28	0.608465	0.947
MRPS21	0.28	0.645781	0.954
MST4	0.28	0.608464	0.947
MSX1	0.28	0.608465	0.947
NAIP	0.28	0.608464	0.947
NBPF24	0.28	0.626599	0.951
NKX2-4	0.28	0.608465	0.947
NOS2	0.28	0.608465	0.947
OR2AG1	0.28	0.608465	0.947
OR2C3	0.28	0.608464	0.947
OR5B2	0.28	0.608465	0.947
OR8D4	0.28	0.608465	0.947
PAK7	0.28	0.608464	0.947
PATE1	0.28	0.608464	0.947
PCP4L1	0.28	0.6266	0.951
PDE4C	0.28	0.608465	0.947
PGAM1	0.28	0.608465	0.947
PLK2	0.28	0.608464	0.947
PNPLA8	0.28	0.6266	0.951
POLA2	0.28	0.64578	0.954
PON1	0.28	0.608465	0.947

POU3F3	0.28	0.608465	0.947
PPP1CC	0.28	0.608465	0.947
PRB2	0.28	0.608465	0.947
PRR9	0.28	0.608465	0.947
QDPR	0.28	0.608465	0.947
RAB22A	0.28	0.608465	0.947
RAP2A	0.28	0.608465	0.947
ROR1	0.28	0.608465	0.947
RPAIN	0.28	0.608465	0.947
SDC4	0.28	0.608465	0.947
SERPINA7	0.28	0.608465	0.947
SF3B5	0.28	0.645781	0.954
SFTPA1	0.28	0.608465	0.947
SH2D1B	0.28	0.608465	0.947
SHKBP1	0.28	0.608465	0.947
SLC45A1	0.28	0.608465	0.947
SMAD6	0.28	0.608465	0.947
SNX6	0.28	0.608465	0.947
SPG21	0.28	0.608465	0.947
STS	0.28	0.608465	0.947
SYNPR	0.28	0.608465	0.947
TAS2R31	0.28	0.608465	0.947
TDRD9	0.28	0.608465	0.947
TGFBI	0.28	0.608465	0.947
TICAM1	0.28	0.6266	0.951
TMEM241	0.28	0.608465	0.947
UPK3BL	0.28	0.608465	0.947
ZAR1	0.28	0.608465	0.947
ZBTB46	0.28	0.608465	0.947
ZNF528	0.28	0.608465	0.947
ZNF74	0.28	0.608465	0.947
ZNF812	0.28	0.608465	0.947
ADTRP	0.29	0.596205	0.946
AGAP7	0.29	0.614757	0.948
AKAP17A	0.29	0.596204	0.946
ANXA4	0.29	0.596205	0.946
APP	0.29	0.596205	0.946
ARHGAP33	0.29	0.614758	0.948
ARRB2	0.29	0.596204	0.946
ARTN	0.29	0.596204	0.946
ATCAY	0.29	0.596204	0.946
ATL1	0.29	0.614758	0.948
ATP1B2	0.29	0.596205	0.946
ATP2C1	0.29	0.596204	0.946
ATXN7L2	0.29	0.596204	0.946
BICC1	0.29	0.596205	0.946
BTLA	0.29	0.596204	0.946

C19orf18	0.29	0.596204	0.946
C4orf45	0.29	0.596204	0.946
CACNG6	0.29	0.596204	0.946
CBR1	0.29	0.614757	0.948
CCDC146	0.29	0.596204	0.946
CCDC74A	0.29	0.596205	0.946
CDK14	0.29	0.596204	0.946
CDK5RAP1	0.29	0.596204	0.946
CKAP4	0.29	0.596205	0.946
CLCN5	0.29	0.596204	0.946
CRNN	0.29	0.596204	0.946
CSDC2	0.29	0.614757	0.948
CTAGE9	0.29	0.614758	0.948
DHX36	0.29	0.614757	0.948
DNAJC7	0.29	0.596205	0.946
DPP9	0.29	0.596205	0.946
EGFLAM	0.29	0.596205	0.946
FARSB	0.29	0.614758	0.948
GCAT	0.29	0.596204	0.946
GCNT2	0.29	0.596205	0.946
GMFB	0.29	0.614758	0.948
HIST1H2BD	0.29	0.614757	0.948
HIST1H2BF	0.29	0.634525	0.953
HOXD8	0.29	0.596204	0.946
HTR1B	0.29	0.614758	0.948
ID2	0.29	0.596204	0.946
KCNK13	0.29	0.596205	0.946
KLF2	0.29	0.596204	0.946
KRT34	0.29	0.596204	0.946
KRTAP2-1	0.29	0.596205	0.946
KRTAP2-2	0.29	0.596205	0.946
KRTAP5-7	0.29	0.596205	0.946
LGALS7B	0.29	0.596205	0.946
LHCGR	0.29	0.596205	0.946
LRRC4C	0.29	0.596204	0.946
LRRC8C	0.29	0.596205	0.946
LYZ	0.29	0.596205	0.946
MARCH9	0.29	0.596205	0.946
MIXL1	0.29	0.596204	0.946
MT1E	0.29	0.65563	0.958
NUCB1	0.29	0.596204	0.946
NUMBL	0.29	0.614758	0.948
OASL	0.29	0.596205	0.946
OR14A16	0.29	0.596205	0.946
OR52L1	0.29	0.596204	0.946
PAPD4	0.29	0.596204	0.946
PHLDA3	0.29	0.596204	0.946

POLB	0.29	0.596204	0.946
PPIL2	0.29	0.596204	0.946
PRPF38B	0.29	0.655631	0.958
PRRT4	0.29	0.614758	0.948
PRTFDC1	0.29	0.596205	0.946
PTPN12	0.29	0.596204	0.946
RHO	0.29	0.596204	0.946
RNF113A	0.29	0.614757	0.948
RNF19A	0.29	0.596205	0.946
S100A13	0.29	0.596204	0.946
SAMD10	0.29	0.596204	0.946
SLC16A3	0.29	0.596204	0.946
SLC19A2	0.29	0.596205	0.946
SMPX	0.29	0.596204	0.946
SOBP	0.29	0.596204	0.946
SPDYE1	0.29	0.596204	0.946
SPDYE6	0.29	0.596204	0.946
SSX7	0.29	0.596205	0.946
STK32C	0.29	0.596204	0.946
SYT1	0.29	0.596204	0.946
TAS2R14	0.29	0.596204	0.946
TBATA	0.29	0.596204	0.946
TBL3	0.29	0.614758	0.948
TDP2	0.29	0.596204	0.946
TMEM33	0.29	0.596205	0.946
TNRC18	0.29	0.596204	0.946
TRIM49C	0.29	0.596205	0.946
TSHR	0.29	0.596204	0.946
TTLL9	0.29	0.596204	0.946
TTPAL	0.29	0.596204	0.946
TUSC3	0.29	0.596204	0.946
TXK	0.29	0.596204	0.946
TXNRD2	0.29	0.614757	0.948
UBAP2L	0.29	0.596205	0.946
UGT3A2	0.29	0.596204	0.946
WHAMM	0.29	0.596204	0.946
YAF2	0.29	0.596205	0.946
ZNF207	0.29	0.596204	0.946
ZNF655	0.29	0.596205	0.946
ZNRF4	0.29	0.596204	0.946
ACAA2	0.3	0.584027	0.943
ADAM17	0.3	0.584027	0.943
AMBP	0.3	0.584026	0.943
AMHR2	0.3	0.603062	0.947
ANKRD60	0.3	0.584026	0.943
ASPA	0.3	0.584027	0.943
ATP4B	0.3	0.603061	0.947

AVPR2	0.3	0.584027	0.943
BMP4	0.3	0.584026	0.943
BTBD11	0.3	0.584027	0.943
C11orf65	0.3	0.584027	0.943
C15orf48	0.3	0.584027	0.943
C6orf15	0.3	0.603061	0.947
C7orf77	0.3	0.584027	0.943
CACNG8	0.3	0.584027	0.943
CAMKK1	0.3	0.584026	0.943
CCDC179	0.3	0.584026	0.943
CCDC25	0.3	0.584027	0.943
CCDC92	0.3	0.584027	0.943
CCT2	0.3	0.644989	0.954
CENPE	0.3	0.584027	0.943
CHST9	0.3	0.584027	0.943
CLEC10A	0.3	0.584027	0.943
COL14A1	0.3	0.584027	0.943
CPNE4	0.3	0.603061	0.947
CRY1	0.3	0.584027	0.943
CSRNP3	0.3	0.584027	0.943
CTXN3	0.3	0.584026	0.943
CYSLTR1	0.3	0.584027	0.943
CYTL1	0.3	0.584027	0.943
DCHS2	0.3	0.584027	0.943
DLST	0.3	0.623277	0.951
DNAH12	0.3	0.584026	0.943
DNAJB13	0.3	0.584027	0.943
DNAJC4	0.3	0.584027	0.943
DNAJC5B	0.3	0.584027	0.943
DSEL	0.3	0.584027	0.943
DSTYK	0.3	0.584026	0.943
ENO4	0.3	0.603062	0.947
EXO1	0.3	0.584026	0.943
FAM122B	0.3	0.584027	0.943
FARP1	0.3	0.584026	0.943
FEZ1	0.3	0.584026	0.943
FFAR3	0.3	0.584027	0.943
FPGT-TNNIC	0.3	0.584027	0.943
GAS8	0.3	0.584027	0.943
GEM	0.3	0.584027	0.943
GNGT1	0.3	0.603061	0.947
GPI	0.3	0.623278	0.951
GRK6	0.3	0.584027	0.943
GUCA1C	0.3	0.584027	0.943
HECA	0.3	0.584027	0.943
IFNA1	0.3	0.584026	0.943
IFNA6	0.3	0.584027	0.943

IKZF5	0.3	0.584027	0.943
IL1RAP	0.3	0.584027	0.943
IL7R	0.3	0.584026	0.943
ITIH3	0.3	0.584027	0.943
JKAMP	0.3	0.584027	0.943
JPH4	0.3	0.584027	0.943
KCNE1	0.3	0.584026	0.943
KCNG3	0.3	0.584027	0.943
KCTD18	0.3	0.584027	0.943
KCTD4	0.3	0.584027	0.943
LAMB1	0.3	0.584027	0.943
LSMEM1	0.3	0.584026	0.943
MCTP2	0.3	0.584027	0.943
MEP1A	0.3	0.584026	0.943
MICALCL	0.3	0.603062	0.947
NAT6	0.3	0.584027	0.943
NDUFA3	0.3	0.584027	0.943
NGDN	0.3	0.623278	0.951
OMP	0.3	0.603062	0.947
OR4D6	0.3	0.584027	0.943
OR52A1	0.3	0.584026	0.943
OR5A2	0.3	0.584027	0.943
PM20D1	0.3	0.584027	0.943
PNPLA7	0.3	0.603061	0.947
POMZP3	0.3	0.584027	0.943
POU3F1	0.3	0.584026	0.943
PPM1L	0.3	0.584027	0.943
PRICKLE4	0.3	0.584026	0.943
PRY	0.3	0.584027	0.943
PRY2	0.3	0.584027	0.943
RAB3GAP1	0.3	0.584027	0.943
RARRES2	0.3	0.584027	0.943
RARRES3	0.3	0.584027	0.943
RBAK	0.3	0.584027	0.943
RBP1	0.3	0.584027	0.943
RHEB	0.3	0.584027	0.943
RIN2	0.3	0.584027	0.943
RPL7L1	0.3	0.584026	0.943
SCGN	0.3	0.584027	0.943
SLC17A9	0.3	0.584027	0.943
SLC25A21	0.3	0.584027	0.943
SLC52A1	0.3	0.584027	0.943
SLC6A13	0.3	0.584027	0.943
SOWAHB	0.3	0.584027	0.943
SPATA31E1	0.3	0.584027	0.943
SRPX	0.3	0.584027	0.943
TBC1D32	0.3	0.584027	0.943

TBC1D3C	0.3	0.584027	0.943
TBX5	0.3	0.603061	0.947
TCP1	0.3	0.584027	0.943
TLR7	0.3	0.584027	0.943
TMED8	0.3	0.603062	0.947
TMEM120B	0.3	0.603061	0.947
TNFRSF10C	0.3	0.584027	0.943
TOB1	0.3	0.584027	0.943
TPM3	0.3	0.584027	0.943
TPPP	0.3	0.584027	0.943
TSACC	0.3	0.584027	0.943
UBTD1	0.3	0.584027	0.943
WDR86	0.3	0.584026	0.943
XDH	0.3	0.603061	0.947
ZFP82	0.3	0.584027	0.943
ZNF552	0.3	0.584027	0.943
ZSWIM4	0.3	0.584027	0.943
AARSD1	0.31	0.572016	0.943
ACAD8	0.31	0.591468	0.946
ACAP2	0.31	0.572016	0.943
ADK	0.31	0.572015	0.943
AFF3	0.31	0.572016	0.943
AGBL1	0.31	0.612099	0.948
ALG13	0.31	0.572016	0.943
AMELY	0.31	0.591468	0.946
AMOT	0.31	0.572016	0.943
ANKRD44	0.31	0.572016	0.943
ANXA7	0.31	0.591467	0.946
ATG12	0.31	0.572016	0.943
ATP5J	0.31	0.572016	0.943
ATP7A	0.31	0.572016	0.943
BCL2L12	0.31	0.572016	0.943
C15orf43	0.31	0.572016	0.943
C19orf12	0.31	0.591467	0.946
C1orf229	0.31	0.572016	0.943
C5orf20	0.31	0.572016	0.943
C9orf116	0.31	0.591467	0.946
CALY	0.31	0.572016	0.943
CAND2	0.31	0.572015	0.943
CEBPD	0.31	0.572016	0.943
CELSR2	0.31	0.591468	0.946
CHD3	0.31	0.591467	0.946
CHORDC1	0.31	0.572016	0.943
COLEC12	0.31	0.591468	0.946
CPA5	0.31	0.572015	0.943
CRBN	0.31	0.572016	0.943
CTIF	0.31	0.572015	0.943

CTNNAL1	0.31	0.572016	0.943
CTSC	0.31	0.572016	0.943
CYP2A7	0.31	0.572015	0.943
DDX4	0.31	0.572016	0.943
DENND1A	0.31	0.572015	0.943
EIF3H	0.31	0.591467	0.946
EIF4EBP2	0.31	0.572016	0.943
ELL	0.31	0.572016	0.943
ERI1	0.31	0.572015	0.943
FAM214A	0.31	0.572016	0.943
FAM83C	0.31	0.572016	0.943
FN3KRP	0.31	0.572016	0.943
FREM2	0.31	0.591468	0.946
GLIS3	0.31	0.591468	0.946
GNA11	0.31	0.572015	0.943
IGSF11	0.31	0.572016	0.943
IL31RA	0.31	0.572015	0.943
ITGA5	0.31	0.572016	0.943
IZUMO2	0.31	0.572016	0.943
LARP1	0.31	0.591468	0.946
LAT2	0.31	0.572016	0.943
LHFPL3	0.31	0.572016	0.943
LRAT	0.31	0.572016	0.943
LYG2	0.31	0.572016	0.943
LYRM9	0.31	0.591468	0.946
MAGEA3	0.31	0.572016	0.943
MAP4K1	0.31	0.572015	0.943
MB21D1	0.31	0.572016	0.943
MCM3	0.31	0.591467	0.946
METTL2B	0.31	0.572016	0.943
MFSD8	0.31	0.572016	0.943
MLIP	0.31	0.572016	0.943
MMGT1	0.31	0.591468	0.946
MNT	0.31	0.572016	0.943
MRO	0.31	0.572015	0.943
MUSTN1	0.31	0.572016	0.943
MYOG	0.31	0.591467	0.946
NEIL2	0.31	0.572016	0.943
NUDT10	0.31	0.572016	0.943
NUP98	0.31	0.572016	0.943
OAS1	0.31	0.572015	0.943
OR51L1	0.31	0.572016	0.943
OR7G1	0.31	0.572016	0.943
PARVG	0.31	0.572016	0.943
PCDH11Y	0.31	0.572016	0.943
PEX5L	0.31	0.572016	0.943
PHLDB3	0.31	0.612099	0.948

PITX3	0.31	0.572016	0.943
POLR2C	0.31	0.612099	0.948
POR	0.31	0.572016	0.943
POU5F1	0.31	0.591468	0.946
PRDX6	0.31	0.572015	0.943
PRPS1	0.31	0.572015	0.943
PRSS22	0.31	0.572016	0.943
PSMA1	0.31	0.572016	0.943
PTPRM	0.31	0.572016	0.943
RECQL4	0.31	0.572016	0.943
RHOXF1	0.31	0.572015	0.943
RNF8	0.31	0.572016	0.943
SAMD4A	0.31	0.572016	0.943
SCLT1	0.31	0.572016	0.943
SCNN1A	0.31	0.572016	0.943
SEC14L3	0.31	0.572016	0.943
SELPLG	0.31	0.572016	0.943
SEPP1	0.31	0.572016	0.943
SHARPIN	0.31	0.572016	0.943
SIGMAR1	0.31	0.572016	0.943
SLC17A1	0.31	0.572016	0.943
SLC25A29	0.31	0.572016	0.943
SLC9A4	0.31	0.572015	0.943
SLC9C1	0.31	0.572016	0.943
TAF1L	0.31	0.572016	0.943
TIMM50	0.31	0.572016	0.943
TMCO3	0.31	0.572016	0.943
TMEM132E	0.31	0.591468	0.946
TMEM26	0.31	0.572016	0.943
TMEM55B	0.31	0.572015	0.943
TNK2	0.31	0.572016	0.943
TNNI3	0.31	0.591467	0.946
TP53INP1	0.31	0.572016	0.943
TTYH1	0.31	0.591468	0.946
UCK1	0.31	0.572016	0.943
UPF2	0.31	0.612099	0.948
USP29	0.31	0.572016	0.943
UTS2	0.31	0.572016	0.943
VN1R4	0.31	0.572016	0.943
VWC2	0.31	0.572016	0.943
WDR53	0.31	0.591468	0.946
WEE1	0.31	0.658246	0.958
ZFP112	0.31	0.591468	0.946
ZNF219	0.31	0.612099	0.948
ZNF257	0.31	0.572016	0.943
ZNF362	0.31	0.572016	0.943
ZNF397	0.31	0.572015	0.943

ZNF562	0.31	0.572016	0.943
ALPP	0.32	0.56016	0.943
ANKRD20A3	0.32	0.56016	0.943
ARL9	0.32	0.560159	0.943
ATPAF2	0.32	0.56016	0.943
BLOC1S1	0.32	0.560159	0.943
BTBD1	0.32	0.56016	0.943
C13orf35	0.32	0.56016	0.943
C16orf13	0.32	0.579872	0.943
C19orf48	0.32	0.56016	0.943
C2orf27A	0.32	0.579871	0.943
C3orf22	0.32	0.579871	0.943
C6orf47	0.32	0.579871	0.943
C6orf48	0.32	0.56016	0.943
CA4	0.32	0.560159	0.943
CD79B	0.32	0.56016	0.943
CELA3B	0.32	0.56016	0.943
CLDN20	0.32	0.56016	0.943
COBL	0.32	0.56016	0.943
CSF1	0.32	0.56016	0.943
DAZ1	0.32	0.560159	0.943
DAZ2	0.32	0.56016	0.943
DAZ4	0.32	0.560159	0.943
DENND5A	0.32	0.560159	0.943
DFNB59	0.32	0.560159	0.943
DIDO1	0.32	0.560159	0.943
DTWD2	0.32	0.560159	0.943
DZANK1	0.32	0.56016	0.943
EDNRA	0.32	0.56016	0.943
EPB41L1	0.32	0.56016	0.943
EPO	0.32	0.560159	0.943
F12	0.32	0.56016	0.943
FAHD2B	0.32	0.560159	0.943
FAM177B	0.32	0.56016	0.943
FAM189A1	0.32	0.56016	0.943
FAM210A	0.32	0.56016	0.943
FAM46C	0.32	0.560159	0.943
FCN3	0.32	0.579871	0.943
GALR3	0.32	0.56016	0.943
GINS3	0.32	0.560159	0.943
HEY2	0.32	0.56016	0.943
HMG3	0.32	0.56016	0.943
HMSD	0.32	0.56016	0.943
HPCAL1	0.32	0.560159	0.943
IL17RD	0.32	0.601099	0.947
KIF19	0.32	0.56016	0.943
KIF21A	0.32	0.560159	0.943

KLHL13	0.32	0.560159	0.943
KRTAP5-5	0.32	0.56016	0.943
LCE1A	0.32	0.560159	0.943
LDHAL6B	0.32	0.560159	0.943
LDHB	0.32	0.560159	0.943
LRP8	0.32	0.560159	0.943
LTA	0.32	0.560159	0.943
MAZ	0.32	0.56016	0.943
METAP2	0.32	0.601098	0.947
MFAP3L	0.32	0.56016	0.943
MORN1	0.32	0.579872	0.943
MTBP	0.32	0.56016	0.943
MTO1	0.32	0.56016	0.943
MUC19	0.32	0.56016	0.943
MYL10	0.32	0.56016	0.943
NAA10	0.32	0.579871	0.943
NEK7	0.32	0.560159	0.943
NPC1L1	0.32	0.560159	0.943
NR2C2AP	0.32	0.579871	0.943
NUDT16L1	0.32	0.56016	0.943
NXN	0.32	0.56016	0.943
OPRM1	0.32	0.56016	0.943
OR13C4	0.32	0.560159	0.943
PAGR1	0.32	0.56016	0.943
PDE4B	0.32	0.560159	0.943
PIGH	0.32	0.56016	0.943
PLXDC1	0.32	0.579871	0.943
POLH	0.32	0.560159	0.943
PPP2R2C	0.32	0.56016	0.943
PRR15L	0.32	0.560159	0.943
PSAT1	0.32	0.56016	0.943
PSMB6	0.32	0.560159	0.943
PTPDC1	0.32	0.579871	0.943
QRSL1	0.32	0.560159	0.943
RABGAP1L	0.32	0.579871	0.943
RAP1GAP	0.32	0.56016	0.943
RAP2C	0.32	0.56016	0.943
RARS	0.32	0.601098	0.947
RGS1	0.32	0.56016	0.943
RPGR	0.32	0.579872	0.943
SCAND3	0.32	0.579871	0.943
SCAPER	0.32	0.56016	0.943
SLC2A13	0.32	0.56016	0.943
SLITRK3	0.32	0.56016	0.943
SPP2	0.32	0.56016	0.943
ST18	0.32	0.56016	0.943
SYPL1	0.32	0.56016	0.943

TAPBPL	0.32	0.579871	0.943
TBCE	0.32	0.579871	0.943
TBL2	0.32	0.56016	0.943
TCEAL1	0.32	0.560159	0.943
TJP1	0.32	0.56016	0.943
TLX1	0.32	0.56016	0.943
TMEM41A	0.32	0.56016	0.943
TSPYL5	0.32	0.579871	0.943
UPK3B	0.32	0.579871	0.943
USP15	0.32	0.579871	0.943
VSIG10L	0.32	0.579871	0.943
WFDC5	0.32	0.560159	0.943
XAGE5	0.32	0.560159	0.943
XPR1	0.32	0.56016	0.943
ZDHHC22	0.32	0.579871	0.943
ZFAND4	0.32	0.56016	0.943
ZFYVE28	0.32	0.56016	0.943
ZNF385C	0.32	0.579871	0.943
ZNF391	0.32	0.56016	0.943
ZNF879	0.32	0.560159	0.943
ZSCAN30	0.32	0.560159	0.943
ABAT	0.33	0.548343	0.942
ABHD17A	0.33	0.548343	0.942
AHRR	0.33	0.548344	0.942
AHSA2	0.33	0.548344	0.942
ANKRD20A2	0.33	0.548343	0.942
ARFGAP1	0.33	0.548343	0.942
ATP6V1E2	0.33	0.548344	0.942
BAG3	0.33	0.548344	0.942
BCKDHA	0.33	0.548343	0.942
BIRC7	0.33	0.548344	0.942
BOLL	0.33	0.568521	0.943
BPIFB3	0.33	0.568521	0.943
BRDT	0.33	0.548344	0.942
C1orf116	0.33	0.548344	0.942
C1orf56	0.33	0.548344	0.942
C9orf62	0.33	0.548344	0.942
CAMSAP1	0.33	0.548343	0.942
CD160	0.33	0.548343	0.942
CELSR1	0.33	0.568521	0.943
CIRBP	0.33	0.548344	0.942
CPNE9	0.33	0.548344	0.942
CSF2RA	0.33	0.548343	0.942
CST9	0.33	0.548343	0.942
CTAGE4	0.33	0.568521	0.943
CYP4A22	0.33	0.548344	0.942
DCXR	0.33	0.548343	0.942

DDX11	0.33	0.548343	0.942
DGKA	0.33	0.548343	0.942
DHX40	0.33	0.548344	0.942
DLG1	0.33	0.548343	0.942
DPP10	0.33	0.548343	0.942
DSCR4	0.33	0.548343	0.942
ENKD1	0.33	0.548343	0.942
ERCC1	0.33	0.548344	0.942
FAM111B	0.33	0.548343	0.942
FAM134B	0.33	0.548343	0.942
FAM161A	0.33	0.548343	0.942
FAM198A	0.33	0.548343	0.942
FAM78A	0.33	0.548343	0.942
FAM83E	0.33	0.548343	0.942
FBXO18	0.33	0.568521	0.943
FIGF	0.33	0.548343	0.942
FLT4	0.33	0.548343	0.942
GGT7	0.33	0.548343	0.942
GPATCH4	0.33	0.548343	0.942
GPR110	0.33	0.568521	0.943
GRIA4	0.33	0.548343	0.942
GRIN2C	0.33	0.548344	0.942
HIST1H3D	0.33	0.568521	0.943
HIST1H3E	0.33	0.548343	0.942
IDH3B	0.33	0.548344	0.942
IFT46	0.33	0.548344	0.942
KAZALD1	0.33	0.548344	0.942
KCNH5	0.33	0.548343	0.942
KRTAP3-1	0.33	0.548344	0.942
LMO7	0.33	0.568521	0.943
LY86	0.33	0.568521	0.943
MARS2	0.33	0.548343	0.942
MTRF1	0.33	0.548343	0.942
MYEF2	0.33	0.548344	0.942
NIT1	0.33	0.548343	0.942
NPY1R	0.33	0.548344	0.942
NUDT15	0.33	0.548343	0.942
OGFOD2	0.33	0.548343	0.942
OPRK1	0.33	0.548344	0.942
OR4K14	0.33	0.548343	0.942
OR6C65	0.33	0.548343	0.942
OR6X1	0.33	0.548343	0.942
OSMR	0.33	0.548343	0.942
PDXK	0.33	0.548343	0.942
PHYKPL	0.33	0.548343	0.942
PMM1	0.33	0.548344	0.942
POLD3	0.33	0.613216	0.948

PPP1R26	0.33	0.548344	0.942
PRR5	0.33	0.568521	0.943
RASAL3	0.33	0.568521	0.943
RDH12	0.33	0.568521	0.943
RIMBP3C	0.33	0.548343	0.942
RPAP1	0.33	0.568521	0.943
S100A7L2	0.33	0.59014	0.946
SIDT1	0.33	0.548344	0.942
SIGIRR	0.33	0.59014	0.946
SLC27A4	0.33	0.548343	0.942
SLFN12L	0.33	0.548343	0.942
SNX17	0.33	0.548344	0.942
SPAST	0.33	0.548343	0.942
SPCS3	0.33	0.548343	0.942
SSTR5	0.33	0.548343	0.942
SSX3	0.33	0.548344	0.942
SYDE1	0.33	0.548343	0.942
TM4SF19	0.33	0.548344	0.942
TMEM114	0.33	0.59014	0.946
TMEM181	0.33	0.548344	0.942
TMEM55A	0.33	0.548343	0.942
TMEM88	0.33	0.548343	0.942
TNIP2	0.33	0.548343	0.942
TOM1L1	0.33	0.548343	0.942
TOPORS	0.33	0.548343	0.942
TPSAB1	0.33	0.548344	0.942
TRIM26	0.33	0.548343	0.942
VAMP1	0.33	0.548343	0.942
WNK2	0.33	0.568521	0.943
YTHDF3	0.33	0.568521	0.943
ZC3H4	0.33	0.568521	0.943
ZFP1	0.33	0.548343	0.942
ZKSCAN7	0.33	0.548343	0.942
ZNF778	0.33	0.548343	0.942
ZSCAN29	0.33	0.548343	0.942
ANKRD39	0.34	0.536709	0.939
ARHGEF33	0.34	0.536709	0.939
ATG5	0.34	0.536709	0.939
ATP5J2	0.34	0.55721	0.943
C1orf63	0.34	0.53671	0.939
C2orf47	0.34	0.536709	0.939
C2orf54	0.34	0.53671	0.939
C2orf62	0.34	0.53671	0.939
C7orf33	0.34	0.536709	0.939
C9orf172	0.34	0.536709	0.939
CAMK2N2	0.34	0.53671	0.939
CCDC36	0.34	0.53671	0.939

CD276	0.34	0.55721	0.943
CDK10	0.34	0.53671	0.939
CDKN1B	0.34	0.53671	0.939
CELA2B	0.34	0.536709	0.939
CEP68	0.34	0.53671	0.939
CGN	0.34	0.536709	0.939
CYP27A1	0.34	0.55721	0.943
CYP27B1	0.34	0.55721	0.943
CYP4B1	0.34	0.55721	0.943
DHRS13	0.34	0.53671	0.939
DKK2	0.34	0.536709	0.939
ESM1	0.34	0.53671	0.939
ESRP2	0.34	0.55721	0.943
FAM217A	0.34	0.53671	0.939
FCGR2C	0.34	0.602844	0.947
FGF19	0.34	0.536709	0.939
FN3K	0.34	0.536709	0.939
GARNL3	0.34	0.536709	0.939
GJB5	0.34	0.53671	0.939
GRIP2	0.34	0.536709	0.939
GTF2H5	0.34	0.536709	0.939
HAPLN1	0.34	0.55721	0.943
HHIP	0.34	0.55721	0.943
HIST1H2AH	0.34	0.53671	0.939
HIST1H4H	0.34	0.536709	0.939
HMHB1	0.34	0.628726	0.951
HSPB8	0.34	0.536709	0.939
IQCA1	0.34	0.55721	0.943
ITGA4	0.34	0.536709	0.939
LDHA	0.34	0.536709	0.939
LILRA1	0.34	0.53671	0.939
MAP3K4	0.34	0.536709	0.939
MAPKAPK3	0.34	0.536709	0.939
MEX3A	0.34	0.53671	0.939
MOCS3	0.34	0.53671	0.939
MORC3	0.34	0.53671	0.939
MSRB3	0.34	0.53671	0.939
MTMR2	0.34	0.55721	0.943
MUC5AC	0.34	0.536709	0.939
NCOA7	0.34	0.53671	0.939
NDRG1	0.34	0.53671	0.939
OR11H4	0.34	0.536709	0.939
OR13H1	0.34	0.536709	0.939
OR4C11	0.34	0.536709	0.939
OR4N5	0.34	0.536709	0.939
OSTF1	0.34	0.536709	0.939
PCSK9	0.34	0.53671	0.939

PITHD1	0.34	0.53671	0.939
PLA2G12A	0.34	0.53671	0.939
PLOD3	0.34	0.536709	0.939
PNLDC1	0.34	0.536709	0.939
POLR3K	0.34	0.53671	0.939
PQLC2	0.34	0.557211	0.943
PRKCQ	0.34	0.536709	0.939
PRSS36	0.34	0.536709	0.939
PTGES	0.34	0.536709	0.939
RALA	0.34	0.53671	0.939
RBM19	0.34	0.55721	0.943
RBPJ	0.34	0.53671	0.939
RIN1	0.34	0.53671	0.939
RNF112	0.34	0.55721	0.943
RNF220	0.34	0.536709	0.939
RNMT	0.34	0.536709	0.939
RPS4Y2	0.34	0.536709	0.939
RRAGC	0.34	0.557211	0.943
RSU1	0.34	0.557211	0.943
SCN3A	0.34	0.53671	0.939
SERPINA6	0.34	0.53671	0.939
SFXN3	0.34	0.55721	0.943
SLC12A2	0.34	0.536709	0.939
SLC2A1	0.34	0.53671	0.939
SLC6A2	0.34	0.536709	0.939
SLC7A3	0.34	0.53671	0.939
SLC9A9	0.34	0.536709	0.939
SLIT3	0.34	0.536709	0.939
SMG6	0.34	0.55721	0.943
SPATS2L	0.34	0.536709	0.939
SPSB1	0.34	0.53671	0.939
SSB	0.34	0.536709	0.939
SYT15	0.34	0.53671	0.939
SYTL5	0.34	0.536709	0.939
TARS	0.34	0.602843	0.947
TAS2R50	0.34	0.53671	0.939
TBC1D12	0.34	0.53671	0.939
TIMM8B	0.34	0.53671	0.939
TMED1	0.34	0.536709	0.939
TMEM56	0.34	0.536709	0.939
TNIP1	0.34	0.579389	0.943
TNNI1	0.34	0.536709	0.939
TP53I3	0.34	0.536709	0.939
TRMT13	0.34	0.536709	0.939
TRUB2	0.34	0.55721	0.943
TSPAN6	0.34	0.536709	0.939
UBE2C	0.34	0.536709	0.939

UHRF1	0.34	0.557211	0.943
ULK4	0.34	0.536709	0.939
USP27X	0.34	0.689338	0.961
WDR11	0.34	0.53671	0.939
WDR61	0.34	0.536709	0.939
XIRP1	0.34	0.536709	0.939
ZNF189	0.34	0.55721	0.943
ZNF540	0.34	0.55721	0.943
ZNF586	0.34	0.53671	0.939
ZNF75A	0.34	0.53671	0.939
ANGPTL7	0.35	0.525142	0.938
ANKRD13C	0.35	0.568695	0.943
APBA2	0.35	0.525142	0.938
APC2	0.35	0.525141	0.938
ARHGEF7	0.35	0.525141	0.938
ATP5I	0.35	0.525142	0.938
ATP6AP1	0.35	0.568695	0.943
ATXN7L1	0.35	0.568695	0.943
BBIP1	0.35	0.525142	0.938
BTG4	0.35	0.525142	0.938
C19orf80	0.35	0.525141	0.938
C4orf33	0.35	0.525142	0.938
C5orf67	0.35	0.525142	0.938
CATSPERB	0.35	0.525142	0.938
CCBL2	0.35	0.525142	0.938
CCDC74B	0.35	0.525142	0.938
CCT8L2	0.35	0.525142	0.938
CECR6	0.35	0.525141	0.938
CNKSR1	0.35	0.525141	0.938
COPS6	0.35	0.525142	0.938
COQ9	0.35	0.525142	0.938
CTR9	0.35	0.568695	0.943
CYB5R2	0.35	0.525142	0.938
DCTN3	0.35	0.525142	0.938
DDHD2	0.35	0.546066	0.942
DECR2	0.35	0.525142	0.938
DPY30	0.35	0.525142	0.938
EFEMP1	0.35	0.525141	0.938
ELANE	0.35	0.525142	0.938
ETV1	0.35	0.525142	0.938
GLUL	0.35	0.525142	0.938
GNG13	0.35	0.546066	0.942
GPRC6A	0.35	0.525142	0.938
GREB1	0.35	0.525142	0.938
HECTD1	0.35	0.525142	0.938
HELZ	0.35	0.525142	0.938
HHAT	0.35	0.525142	0.938

HMGN1	0.35	0.525142	0.938
HTATSF1	0.35	0.546066	0.942
IL13	0.35	0.525141	0.938
IQCH	0.35	0.525142	0.938
KBTBD13	0.35	0.525142	0.938
KDELC2	0.35	0.525142	0.938
KRTAP9-3	0.35	0.525142	0.938
LNPEP	0.35	0.525142	0.938
MAP6	0.35	0.546066	0.942
METTLL23	0.35	0.525142	0.938
MGAT4D	0.35	0.680972	0.961
NAGA	0.35	0.525142	0.938
NEBL	0.35	0.525142	0.938
NEK4	0.35	0.525142	0.938
NFKBIB	0.35	0.546066	0.942
NLRP14	0.35	0.525142	0.938
NMNAT3	0.35	0.525142	0.938
NYAP1	0.35	0.568695	0.943
OR5B12	0.35	0.525142	0.938
PGBD5	0.35	0.525142	0.938
PLA2G4C	0.35	0.525142	0.938
PRR19	0.35	0.546065	0.942
PRSS55	0.35	0.525142	0.938
PSG5	0.35	0.525142	0.938
PSKH1	0.35	0.525142	0.938
PTPRE	0.35	0.546065	0.942
PTTG1IP	0.35	0.525141	0.938
RASA3	0.35	0.525142	0.938
RECQL	0.35	0.546066	0.942
RENBP	0.35	0.525142	0.938
SERTAD4	0.35	0.525142	0.938
SLC29A4	0.35	0.525142	0.938
SMR3A	0.35	0.546065	0.942
TANGO6	0.35	0.546066	0.942
TAS2R10	0.35	0.525142	0.938
TCTEX1D1	0.35	0.525142	0.938
TFAM	0.35	0.546066	0.942
TMBIM6	0.35	0.525141	0.938
TMEM74B	0.35	0.525142	0.938
TMPRSS2	0.35	0.546066	0.942
TNFRSF13B	0.35	0.525142	0.938
TNXB	0.35	0.525142	0.938
TTC30A	0.35	0.525142	0.938
TTC33	0.35	0.525142	0.938
TTC38	0.35	0.525142	0.938
TTC8	0.35	0.525142	0.938
UBOX5	0.35	0.525141	0.938

UNG	0.35	0.525142	0.938
USP17L21	0.35	0.525142	0.938
USP53	0.35	0.525142	0.938
VAC14	0.35	0.525142	0.938
WDR90	0.35	0.525142	0.938
ZMYND10	0.35	0.546065	0.942
ZNF229	0.35	0.525141	0.938
ZNF546	0.35	0.525141	0.938
ZNF613	0.35	0.525142	0.938
ADRA1B	0.36	0.535	0.939
ALOX12	0.36	0.513719	0.933
ANKRD63	0.36	0.51372	0.933
APOL2	0.36	0.513719	0.933
ASPHD1	0.36	0.513719	0.933
B3GNT9	0.36	0.513719	0.933
BBS7	0.36	0.51372	0.933
BCKDHB	0.36	0.513719	0.933
BSDC1	0.36	0.51372	0.933
C1orf198	0.36	0.535	0.939
C2orf42	0.36	0.513719	0.933
C6orf58	0.36	0.51372	0.933
CACNG5	0.36	0.513719	0.933
CAST	0.36	0.513719	0.933
CD109	0.36	0.51372	0.933
CFHR5	0.36	0.513719	0.933
CGB1	0.36	0.51372	0.933
CHID1	0.36	0.513719	0.933
COL8A2	0.36	0.513719	0.933
CXCL10	0.36	0.513719	0.933
CXorf48	0.36	0.51372	0.933
DDX49	0.36	0.513719	0.933
DFFB	0.36	0.513719	0.933
DHRS7C	0.36	0.513719	0.933
DRG2	0.36	0.513719	0.933
DUSP27	0.36	0.51372	0.933
DVL3	0.36	0.513719	0.933
DYNLRB2	0.36	0.51372	0.933
ELSPBP1	0.36	0.513719	0.933
FAM231A	0.36	0.535001	0.939
FAM231C	0.36	0.535001	0.939
FDPS	0.36	0.51372	0.933
FILIP1L	0.36	0.51372	0.933
FOXR1	0.36	0.513719	0.933
GBF1	0.36	0.513719	0.933
GHRHR	0.36	0.513719	0.933
GSG1L	0.36	0.535	0.939
HMG5	0.36	0.513719	0.933

HOXC11	0.36	0.535	0.939
IFNGR2	0.36	0.513719	0.933
IGLL1	0.36	0.513719	0.933
INCENP	0.36	0.535001	0.939
KAL1	0.36	0.513719	0.933
KCNA10	0.36	0.513719	0.933
KCNA3	0.36	0.51372	0.933
KCNIP1	0.36	0.513719	0.933
KRTAP17-1	0.36	0.51372	0.933
LETM1	0.36	0.513719	0.933
LRRC39	0.36	0.513719	0.933
LRRC3B	0.36	0.51372	0.933
LYSMD1	0.36	0.513719	0.933
MAD2L1BP	0.36	0.513719	0.933
MDP1	0.36	0.513719	0.933
MGAT4C	0.36	0.51372	0.933
MZT2B	0.36	0.513719	0.933
NHLRC4	0.36	0.535001	0.939
NIPAL3	0.36	0.513719	0.933
NMUR1	0.36	0.513719	0.933
NPIP6	0.36	0.535	0.939
OCEL1	0.36	0.513719	0.933
OR5K2	0.36	0.513719	0.933
OR8K5	0.36	0.51372	0.933
OSBPL2	0.36	0.513719	0.933
PCDHGA12	0.36	0.513719	0.933
PI3	0.36	0.513719	0.933
PKMYT1	0.36	0.535001	0.939
PLCD1	0.36	0.513719	0.933
POLE	0.36	0.55798	0.943
POLI	0.36	0.55798	0.943
PRDM5	0.36	0.51372	0.933
PRLR	0.36	0.513719	0.933
PRMT2	0.36	0.513719	0.933
PSMA5	0.36	0.582435	0.943
PTPLAD1	0.36	0.513719	0.933
RCCD1	0.36	0.535001	0.939
RDH16	0.36	0.513719	0.933
REG1A	0.36	0.513719	0.933
RFX4	0.36	0.513719	0.933
ROM1	0.36	0.51372	0.933
SASS6	0.36	0.535	0.939
SERPIN3	0.36	0.513719	0.933
SH2D7	0.36	0.51372	0.933
SLC8A1	0.36	0.513719	0.933
SOCS3	0.36	0.535001	0.939
SPINK6	0.36	0.513719	0.933

STAG1	0.36	0.535	0.939
SYNGR1	0.36	0.513719	0.933
TANK	0.36	0.513719	0.933
TDRD15	0.36	0.513719	0.933
THAP11	0.36	0.513719	0.933
TLE3	0.36	0.513719	0.933
TMEM125	0.36	0.51372	0.933
TMEM214	0.36	0.513719	0.933
TRIM65	0.36	0.513719	0.933
TRMT44	0.36	0.513719	0.933
TRPC5	0.36	0.513719	0.933
TXNL1	0.36	0.51372	0.933
UMODL1	0.36	0.513719	0.933
URI1	0.36	0.513719	0.933
USP48	0.36	0.513719	0.933
VASH1	0.36	0.51372	0.933
VSX2	0.36	0.535	0.939
ZNF280D	0.36	0.513719	0.933
ZNF749	0.36	0.513719	0.933
ZNF792	0.36	0.51372	0.933
ABI2	0.37	0.502471	0.932
ADIRF	0.37	0.502471	0.932
ADRBK1	0.37	0.523973	0.938
ANK3	0.37	0.502471	0.932
ARHGAP10	0.37	0.502471	0.932
ATOH8	0.37	0.502471	0.932
BCL2L2	0.37	0.502471	0.932
C1GALT1C1	0.37	0.50247	0.932
C1orf168	0.37	0.502471	0.932
C20orf144	0.37	0.502471	0.932
CARD11	0.37	0.50247	0.932
CASP6	0.37	0.50247	0.932
CBLN2	0.37	0.502471	0.932
CCDC3	0.37	0.50247	0.932
CCT7	0.37	0.502471	0.932
CD180	0.37	0.502471	0.932
CD300LD	0.37	0.50247	0.932
CDC20	0.37	0.547369	0.942
CDRT15L2	0.37	0.502471	0.932
CEACAM20	0.37	0.523973	0.938
CHST15	0.37	0.502471	0.932
CLN6	0.37	0.50247	0.932
CTSE	0.37	0.50247	0.932
CUEDC1	0.37	0.502471	0.932
CYLC1	0.37	0.502471	0.932
DPYS	0.37	0.50247	0.932
ELF4	0.37	0.502471	0.932

EPPIN	0.37	0.50247	0.932
EXOC3L2	0.37	0.523973	0.938
EZR	0.37	0.523972	0.938
FAM184A	0.37	0.50247	0.932
FAM207A	0.37	0.502471	0.932
FAM208B	0.37	0.502471	0.932
FASTKD2	0.37	0.502471	0.932
FATE1	0.37	0.50247	0.932
FHL5	0.37	0.502471	0.932
FLJ44635	0.37	0.502471	0.932
FUNDC1	0.37	0.502471	0.932
GOLGA8N	0.37	0.502471	0.932
GPR143	0.37	0.502471	0.932
GPR149	0.37	0.50247	0.932
GYPB	0.37	0.572302	0.943
HPCA	0.37	0.502471	0.932
HRASLS	0.37	0.50247	0.932
HRH4	0.37	0.502471	0.932
IGSF3	0.37	0.502471	0.932
IL23A	0.37	0.50247	0.932
INF2	0.37	0.50247	0.932
KCNA4	0.37	0.50247	0.932
KIF18B	0.37	0.502471	0.932
KLHL32	0.37	0.502471	0.932
LALBA	0.37	0.502471	0.932
LHFPL1	0.37	0.50247	0.932
LRRC37A2	0.37	0.502471	0.932
MAF1	0.37	0.50247	0.932
MAPK11P1L	0.37	0.50247	0.932
MBD3L1	0.37	0.50247	0.932
MCL1	0.37	0.523973	0.938
MOSPD2	0.37	0.50247	0.932
MRPL3	0.37	0.50247	0.932
MSI2	0.37	0.50247	0.932
MTFR1L	0.37	0.50247	0.932
MVD	0.37	0.502471	0.932
MXI1	0.37	0.523973	0.938
NAT16	0.37	0.502471	0.932
NOV	0.37	0.50247	0.932
OPN3	0.37	0.502471	0.932
OR5D18	0.37	0.502471	0.932
OR7C1	0.37	0.502471	0.932
PCDHAC1	0.37	0.523973	0.938
PDCD10	0.37	0.502471	0.932
PDZD3	0.37	0.502471	0.932
PLK4	0.37	0.523972	0.938
PPIAL4G	0.37	0.50247	0.932

PPIL6	0.37	0.502471	0.932
PPP1R16B	0.37	0.50247	0.932
PRLH	0.37	0.50247	0.932
PRMT5	0.37	0.599696	0.947
PRSS1	0.37	0.502471	0.932
PTGS1	0.37	0.50247	0.932
PURA	0.37	0.502471	0.932
RAB3C	0.37	0.502471	0.932
RAB42	0.37	0.502471	0.932
RAD54L	0.37	0.50247	0.932
RCAN2	0.37	0.502471	0.932
RNF122	0.37	0.50247	0.932
RSPH10B	0.37	0.502471	0.932
SCRG1	0.37	0.502471	0.932
SERPINC1	0.37	0.502471	0.932
SERPIND1	0.37	0.50247	0.932
SHD	0.37	0.502471	0.932
SLC30A8	0.37	0.502471	0.932
SLC35F6	0.37	0.50247	0.932
SLC7A8	0.37	0.502471	0.932
SMIM19	0.37	0.502471	0.932
SNIP1	0.37	0.523973	0.938
SP110	0.37	0.502471	0.932
SP3	0.37	0.502471	0.932
SSH1	0.37	0.547369	0.942
SULF1	0.37	0.502471	0.932
TMEM129	0.37	0.50247	0.932
TMEM132C	0.37	0.523973	0.938
TMEM9	0.37	0.502471	0.932
TMIGD2	0.37	0.50247	0.932
UIMC1	0.37	0.523973	0.938
VPS37D	0.37	0.502471	0.932
WIZ	0.37	0.502471	0.932
WLS	0.37	0.50247	0.932
YPEL4	0.37	0.50247	0.932
ZNF160	0.37	0.502471	0.932
ZNF496	0.37	0.502471	0.932
ZNF624	0.37	0.502471	0.932
ADORA1	0.38	0.491394	0.931
AKT1	0.38	0.513155	0.933
AMH	0.38	0.491393	0.931
APEX2	0.38	0.491394	0.931
ARMC3	0.38	0.491394	0.931
ARRDC3	0.38	0.491394	0.931
ASPG	0.38	0.491394	0.931
ATP1A3	0.38	0.513155	0.933
ATRNL1	0.38	0.491394	0.931

BAG5	0.38	0.491394	0.931
BAP1	0.38	0.491394	0.931
C11orf45	0.38	0.491394	0.931
C18orf63	0.38	0.491394	0.931
C1QL3	0.38	0.491394	0.931
C7orf57	0.38	0.491394	0.931
CARHSP1	0.38	0.491394	0.931
CENPBD1	0.38	0.491393	0.931
CEP76	0.38	0.491394	0.931
CHKB	0.38	0.491394	0.931
CHL1	0.38	0.491393	0.931
CIB2	0.38	0.513155	0.933
CLDN9	0.38	0.491394	0.931
CLEC12A	0.38	0.491393	0.931
CNTROB	0.38	0.513155	0.933
CRIP1	0.38	0.491393	0.931
CRIP2	0.38	0.491394	0.931
CTNS	0.38	0.513155	0.933
CUZD1	0.38	0.491394	0.931
DCAF11	0.38	0.513154	0.933
DIRC2	0.38	0.491394	0.931
DNAJC10	0.38	0.491394	0.931
DOCK3	0.38	0.491394	0.931
EFTUD2	0.38	0.536857	0.939
FAM168A	0.38	0.491394	0.931
FAM192A	0.38	0.491394	0.931
FER1L6	0.38	0.491394	0.931
GABARAPL2	0.38	0.491394	0.931
GDPD1	0.38	0.491394	0.931
GPR3	0.38	0.491393	0.931
GXYLT1	0.38	0.491393	0.931
HDAC10	0.38	0.491393	0.931
HEPN1	0.38	0.491394	0.931
ISOC1	0.38	0.491394	0.931
ITPA	0.38	0.491394	0.931
KIAA1199	0.38	0.491394	0.931
KIR2DL3	0.38	0.491393	0.931
KLK5	0.38	0.491394	0.931
KRT31	0.38	0.491394	0.931
LACE1	0.38	0.491394	0.931
LPA	0.38	0.491394	0.931
MARK4	0.38	0.491393	0.931
MBNL2	0.38	0.491394	0.931
MDH1	0.38	0.491394	0.931
MED26	0.38	0.491394	0.931
MFAP1	0.38	0.513155	0.933
MRPL45	0.38	0.491394	0.931

MS4A10	0.38	0.491394	0.931
MTRNR2L1	0.38	0.562257	0.943
NDUFAB1	0.38	0.513155	0.933
NLGN2	0.38	0.491394	0.931
NOSIP	0.38	0.513155	0.933
NOXO1	0.38	0.491393	0.931
NTN4	0.38	0.491394	0.931
NUCKS1	0.38	0.513155	0.933
NUP155	0.38	0.536857	0.939
ODC1	0.38	0.491394	0.931
OR1A2	0.38	0.491394	0.931
PCDP1	0.38	0.513155	0.933
POU4F1	0.38	0.491394	0.931
PPFIA3	0.38	0.536856	0.939
PPRC1	0.38	0.491394	0.931
PROM2	0.38	0.491394	0.931
RAB3D	0.38	0.491394	0.931
RWDD4	0.38	0.491394	0.931
SETD1B	0.38	0.513155	0.933
SETD9	0.38	0.491394	0.931
SH3PXD2B	0.38	0.491394	0.931
SLAMF1	0.38	0.536856	0.939
SLC16A6	0.38	0.491394	0.931
SMLR1	0.38	0.491393	0.931
SNAPC2	0.38	0.513155	0.933
SNURF	0.38	0.491394	0.931
SNX2	0.38	0.491394	0.931
SPINT4	0.38	0.491393	0.931
ST8SIA4	0.38	0.491394	0.931
TARBP1	0.38	0.513155	0.933
TAS2R38	0.38	0.491394	0.931
TMEM217	0.38	0.491394	0.931
TMEM254	0.38	0.491393	0.931
TMEM27	0.38	0.491394	0.931
TRIB1	0.38	0.491394	0.931
TUSC5	0.38	0.491394	0.931
U2AF2	0.38	0.536857	0.939
UGT2A3	0.38	0.491394	0.931
UGT2B17	0.38	0.491393	0.931
WDR74	0.38	0.491394	0.931
ZNF12	0.38	0.491394	0.931
ZNF638	0.38	0.491394	0.931
ZNF77	0.38	0.491393	0.931
ABCG4	0.39	0.480374	0.928
ACVR2B	0.39	0.52654	0.939
ADAMTSL3	0.39	0.480374	0.928
ADM	0.39	0.5024	0.932

ALOX15B	0.39	0.480374	0.928
AMDHD2	0.39	0.5024	0.932
ANKHD1	0.39	0.480374	0.928
ARL6IP1	0.39	0.480374	0.928
ART1	0.39	0.480374	0.928
AVEN	0.39	0.480374	0.928
AZU1	0.39	0.5024	0.932
C11orf83	0.39	0.480374	0.928
C17orf62	0.39	0.480374	0.928
C2orf81	0.39	0.480374	0.928
C4orf36	0.39	0.480374	0.928
C9orf47	0.39	0.480374	0.928
CCDC94	0.39	0.580774	0.943
CD2AP	0.39	0.480374	0.928
CDH23	0.39	0.480374	0.928
CEP290	0.39	0.480374	0.928
CLEC2A	0.39	0.480374	0.928
COL6A5	0.39	0.480374	0.928
COPRS	0.39	0.480374	0.928
COX20	0.39	0.480374	0.928
DDI1	0.39	0.480374	0.928
DNAL11	0.39	0.480374	0.928
DYDC2	0.39	0.480374	0.928
EREG	0.39	0.480374	0.928
FGD5	0.39	0.5024	0.932
FMN1	0.39	0.5024	0.932
GALNT1	0.39	0.480374	0.928
GPR183	0.39	0.480374	0.928
GSS	0.39	0.480374	0.928
IL4	0.39	0.480374	0.928
INPP5F	0.39	0.480374	0.928
ITGB8	0.39	0.480374	0.928
KCNN1	0.39	0.52654	0.939
KCTD17	0.39	0.480374	0.928
KDM5B	0.39	0.480374	0.928
KPNB1	0.39	0.5024	0.932
KRBA2	0.39	0.480374	0.928
KRT38	0.39	0.480374	0.928
KRT7	0.39	0.480374	0.928
KRTAP2-4	0.39	0.480374	0.928
LAMA3	0.39	0.480374	0.928
LRIT3	0.39	0.480374	0.928
LSM14B	0.39	0.480374	0.928
LTC4S	0.39	0.480374	0.928
METTL15	0.39	0.480374	0.928
MIEF1	0.39	0.480374	0.928
NCOA1	0.39	0.480374	0.928

NR1I2	0.39	0.480374	0.928
NUDT8	0.39	0.480374	0.928
OR11H6	0.39	0.480374	0.928
OR1S2	0.39	0.480374	0.928
OR4K15	0.39	0.480374	0.928
PON2	0.39	0.480374	0.928
PPTC7	0.39	0.480374	0.928
PRAMEF15	0.39	0.480374	0.928
PRDM16	0.39	0.480374	0.928
PREX1	0.39	0.480374	0.928
PSD3	0.39	0.480374	0.928
PTPRU	0.39	0.480374	0.928
PVR	0.39	0.480374	0.928
S1PR4	0.39	0.480374	0.928
SKIV2L2	0.39	0.552323	0.943
SLC25A17	0.39	0.480374	0.928
SLC25A31	0.39	0.480374	0.928
SLC25A38	0.39	0.480374	0.928
SLC26A10	0.39	0.480374	0.928
SLC35E3	0.39	0.5024	0.932
SLC6A5	0.39	0.480374	0.928
SLC7A10	0.39	0.5024	0.932
SMIM10	0.39	0.480374	0.928
SOX30	0.39	0.480374	0.928
SPATA13	0.39	0.480374	0.928
SPR	0.39	0.480374	0.928
SSC5D	0.39	0.480374	0.928
TBCEL	0.39	0.480374	0.928
TMEFF1	0.39	0.480374	0.928
TMEM45B	0.39	0.480374	0.928
TNFRSF19	0.39	0.480374	0.928
TOMM22	0.39	0.502399	0.932
TRIM4	0.39	0.480374	0.928
TRPM8	0.39	0.5024	0.932
TUBB	0.39	0.480374	0.928
TWSG1	0.39	0.480374	0.928
VPS13C	0.39	0.480374	0.928
XKRY	0.39	0.480374	0.928
XKRY2	0.39	0.480374	0.928
ZNF251	0.39	0.480374	0.928
ZNF518A	0.39	0.480374	0.928
ZNF687	0.39	0.5024	0.932
ZNF845	0.39	0.480374	0.928
ACE	0.4	0.469499	0.928
ADAM18	0.4	0.491799	0.931
AHR	0.4	0.469499	0.928
APOB	0.4	0.469499	0.928

BRAT1	0.4	0.469499	0.928
BRINP1	0.4	0.469499	0.928
C10orf113	0.4	0.469499	0.928
C10orf142	0.4	0.469499	0.928
C15orf32	0.4	0.469499	0.928
C20orf197	0.4	0.469499	0.928
C4orf46	0.4	0.491799	0.931
CACNA2D4	0.4	0.469499	0.928
CCDC169-S1	0.4	0.469499	0.928
CCL1	0.4	0.469499	0.928
CD96	0.4	0.469499	0.928
CDC5L	0.4	0.516259	0.937
CHRM3	0.4	0.469499	0.928
CLYBL	0.4	0.469499	0.928
CRH	0.4	0.516259	0.937
CRNDE	0.4	0.639944	0.954
CTSH	0.4	0.469499	0.928
DEDD	0.4	0.469499	0.928
DNMT3L	0.4	0.469499	0.928
DPCD	0.4	0.469499	0.928
DYNAP	0.4	0.469499	0.928
EIF4G1	0.4	0.491799	0.931
FGB	0.4	0.469499	0.928
FUOM	0.4	0.469499	0.928
FURIN	0.4	0.469499	0.928
GBP6	0.4	0.469499	0.928
GOLM1	0.4	0.469499	0.928
GPR83	0.4	0.469499	0.928
GTF3C6	0.4	0.491799	0.931
GTSF1L	0.4	0.469499	0.928
HECW1	0.4	0.469499	0.928
ICAM3	0.4	0.469499	0.928
IDH3G	0.4	0.469499	0.928
INSL4	0.4	0.469499	0.928
KCNE3	0.4	0.469499	0.928
LRRC45	0.4	0.469499	0.928
MACROD1	0.4	0.469499	0.928
MAPK4	0.4	0.469499	0.928
MEPE	0.4	0.469499	0.928
MRPL55	0.4	0.469499	0.928
MRPS34	0.4	0.469499	0.928
NAALADL2	0.4	0.469499	0.928
NLRP2	0.4	0.516259	0.937
OR52E6	0.4	0.469499	0.928
OR5M10	0.4	0.469499	0.928
PER2	0.4	0.469499	0.928
PFDN4	0.4	0.469499	0.928

PODN	0.4	0.469499	0.928
PROCR	0.4	0.491799	0.931
PSMC5	0.4	0.57141	0.943
RALGDS	0.4	0.491799	0.931
RMDN2	0.4	0.469499	0.928
RNF181	0.4	0.469499	0.928
RNF215	0.4	0.469499	0.928
RORA	0.4	0.469499	0.928
RPS19	0.4	0.516259	0.937
RPS3	0.4	0.516259	0.937
S100A7A	0.4	0.469499	0.928
SERINC4	0.4	0.469499	0.928
SHCBP1L	0.4	0.469499	0.928
SLCO2B1	0.4	0.469499	0.928
SMURF2	0.4	0.469499	0.928
SNTG1	0.4	0.469499	0.928
SYNE1	0.4	0.469499	0.928
TACO1	0.4	0.469499	0.928
TAF8	0.4	0.469499	0.928
TCTEX1D4	0.4	0.491799	0.931
TFR2	0.4	0.491799	0.931
TLN1	0.4	0.491799	0.931
TMEM244	0.4	0.469499	0.928
TRPC4	0.4	0.469499	0.928
TSPAN15	0.4	0.491799	0.931
TUBA4A	0.4	0.469499	0.928
TUBB4B	0.4	0.469499	0.928
VGLL1	0.4	0.469499	0.928
WDR45B	0.4	0.469499	0.928
ZCCHC7	0.4	0.469499	0.928
ZFAND1	0.4	0.469499	0.928
ZMYM5	0.4	0.469499	0.928
ZNF221	0.4	0.469499	0.928
ZNF23	0.4	0.469499	0.928
ZNF34	0.4	0.491799	0.931
ZNF343	0.4	0.469499	0.928
ZNF543	0.4	0.469499	0.928
ZNF766	0.4	0.469499	0.928
ZNF98	0.4	0.469499	0.928
ACKR3	0.41	0.481333	0.928
ACOT11	0.41	0.481333	0.928
ADARB2	0.41	0.458734	0.924
APPL1	0.41	0.458734	0.924
BCAS1	0.41	0.458734	0.924
C11orf35	0.41	0.481334	0.928
C1orf65	0.41	0.458734	0.924
C22orf26	0.41	0.481334	0.928

C7orf71	0.41	0.458734	0.924
CCDC104	0.41	0.458734	0.924
CCDC168	0.41	0.458735	0.924
CCDC42	0.41	0.458734	0.924
CCDC8	0.41	0.458735	0.924
CCT6B	0.41	0.458734	0.924
CDCA3	0.41	0.458734	0.924
CGNL1	0.41	0.481334	0.928
CHP2	0.41	0.458734	0.924
CHRM5	0.41	0.458734	0.924
CLIC2	0.41	0.458734	0.924
CNGB3	0.41	0.458734	0.924
CNOT6L	0.41	0.458735	0.924
CSHL1	0.41	0.458734	0.924
CSN2	0.41	0.458734	0.924
CTF1	0.41	0.481334	0.928
DEFA3	0.41	0.458734	0.924
DERL1	0.41	0.458734	0.924
DNAH8	0.41	0.458734	0.924
DSG3	0.41	0.458734	0.924
EBLN1	0.41	0.458734	0.924
EDEM2	0.41	0.458735	0.924
ELTD1	0.41	0.458734	0.924
ENDOU	0.41	0.458734	0.924
EXOSC2	0.41	0.481334	0.928
EZH2	0.41	0.458734	0.924
FABP4	0.41	0.458734	0.924
FAIM	0.41	0.481334	0.928
FAM177A1	0.41	0.481334	0.928
FAU	0.41	0.532739	0.939
FAXDC2	0.41	0.458734	0.924
FCER1A	0.41	0.458734	0.924
FEZF2	0.41	0.458734	0.924
FGD3	0.41	0.458734	0.924
FOLR2	0.41	0.458734	0.924
GBX1	0.41	0.458735	0.924
GJB3	0.41	0.481334	0.928
GPR115	0.41	0.458734	0.924
HACL1	0.41	0.458734	0.924
HIGD1C	0.41	0.458734	0.924
HIST1H4J	0.41	0.458735	0.924
HIST1H4K	0.41	0.458734	0.924
HMGB3	0.41	0.458734	0.924
HSPB3	0.41	0.458734	0.924
HTATIP2	0.41	0.458734	0.924
ID4	0.41	0.458734	0.924
IL18BP	0.41	0.481334	0.928

IMMP2L	0.41	0.458734	0.924
KCTD6	0.41	0.458735	0.924
KIAA0100	0.41	0.458734	0.924
KIAA1524	0.41	0.458734	0.924
KRT39	0.41	0.458734	0.924
LMAN2L	0.41	0.458734	0.924
LPPR2	0.41	0.458734	0.924
LPXN	0.41	0.458734	0.924
MBOAT1	0.41	0.458734	0.924
MEN1	0.41	0.458734	0.924
MTA3	0.41	0.458735	0.924
MTERFD2	0.41	0.458734	0.924
NEURL4	0.41	0.458735	0.924
NPC2	0.41	0.458735	0.924
NUTM2A	0.41	0.481333	0.928
NXPE4	0.41	0.458734	0.924
OR10K1	0.41	0.458734	0.924
OR2W1	0.41	0.458734	0.924
OR52B4	0.41	0.458734	0.924
OR8G1	0.41	0.458735	0.924
OR8U1	0.41	0.50615	0.933
OTOG	0.41	0.458735	0.924
PADI3	0.41	0.458734	0.924
PAIP1	0.41	0.458734	0.924
PALM	0.41	0.458734	0.924
PLA2G4D	0.41	0.458734	0.924
PLA2G7	0.41	0.481333	0.928
PLEKHH1	0.41	0.458734	0.924
PPID	0.41	0.458735	0.924
PRAMEF19	0.41	0.481334	0.928
PRPF3	0.41	0.481333	0.928
PSMB10	0.41	0.458735	0.924
RAB11B	0.41	0.458734	0.924
RBKS	0.41	0.458734	0.924
RGS8	0.41	0.458734	0.924
RNASE12	0.41	0.458734	0.924
RPTOR	0.41	0.458734	0.924
RSBN1	0.41	0.458734	0.924
SCAMP1	0.41	0.50615	0.933
SEC16B	0.41	0.458734	0.924
SEZ6L	0.41	0.481334	0.928
SLC47A2	0.41	0.458735	0.924
SLC5A3	0.41	0.458734	0.924
SLMO2	0.41	0.481334	0.928
SMARCE1	0.41	0.481334	0.928
SOX2	0.41	0.458734	0.924
SPAG11B	0.41	0.481333	0.928

SPATA12	0.41	0.458734	0.924
SPEM1	0.41	0.458735	0.924
SRSF4	0.41	0.458734	0.924
STXBP5L	0.41	0.458734	0.924
SVEP1	0.41	0.481334	0.928
SYCE1L	0.41	0.458734	0.924
TAP1	0.41	0.481333	0.928
TBC1D3	0.41	0.458734	0.924
TCL1A	0.41	0.458734	0.924
TERF2	0.41	0.458734	0.924
TMC6	0.41	0.458734	0.924
TMEM133	0.41	0.458734	0.924
TMEM213	0.41	0.481334	0.928
TMEM53	0.41	0.458734	0.924
TRIM46	0.41	0.481333	0.928
TTC39B	0.41	0.458734	0.924
UHRF1BP1L	0.41	0.458734	0.924
WDFY1	0.41	0.458735	0.924
YTHDC1	0.41	0.50615	0.933
ZNF19	0.41	0.458735	0.924
ZNF443	0.41	0.458734	0.924
ZNF764	0.41	0.458734	0.924
ABHD16A	0.42	0.448172	0.924
ACER3	0.42	0.471025	0.928
ACSL5	0.42	0.448171	0.924
AKAP4	0.42	0.448171	0.924
ALG1L2	0.42	0.523117	0.938
ALMS1	0.42	0.471025	0.928
AQR	0.42	0.523117	0.938
ARL17A	0.42	0.448171	0.924
ATP13A1	0.42	0.448172	0.924
BAMBI	0.42	0.448171	0.924
BRMS1L	0.42	0.448172	0.924
BTK	0.42	0.448172	0.924
C10orf126	0.42	0.471025	0.928
C16orf62	0.42	0.448171	0.924
C1orf162	0.42	0.448171	0.924
C8orf58	0.42	0.448171	0.924
CBWD6	0.42	0.448171	0.924
CCDC160	0.42	0.448172	0.924
CCDC33	0.42	0.471025	0.928
COLGALT1	0.42	0.448172	0.924
CXCL2	0.42	0.448172	0.924
CYB5RL	0.42	0.448171	0.924
CYGB	0.42	0.471025	0.928
DIS3	0.42	0.448171	0.924
ECHDC2	0.42	0.448171	0.924

ECSCR	0.42	0.448172	0.924
ESD	0.42	0.448172	0.924
FAM117A	0.42	0.448171	0.924
FAM120C	0.42	0.448171	0.924
FBXO10	0.42	0.448172	0.924
FBXO48	0.42	0.448172	0.924
FGA	0.42	0.448172	0.924
FIBIN	0.42	0.448172	0.924
GLYATL3	0.42	0.448172	0.924
GMNC	0.42	0.448172	0.924
GRPEL1	0.42	0.496056	0.932
HS6ST3	0.42	0.448172	0.924
HSPA5	0.42	0.55277	0.943
IMPDH2	0.42	0.448172	0.924
KCNA5	0.42	0.448171	0.924
KRT71	0.42	0.448172	0.924
KRTAP2-3	0.42	0.448171	0.924
KSR1	0.42	0.471025	0.928
LAMA4	0.42	0.471025	0.928
LRFN4	0.42	0.448171	0.924
MAPK11	0.42	0.471025	0.928
MICU1	0.42	0.448172	0.924
MLF1	0.42	0.448172	0.924
MPZ	0.42	0.448171	0.924
NDUFB4	0.42	0.448171	0.924
NEK8	0.42	0.448172	0.924
NNAT	0.42	0.448172	0.924
NOXRED1	0.42	0.448172	0.924
NSG1	0.42	0.448171	0.924
ODAM	0.42	0.448171	0.924
OR10A5	0.42	0.471025	0.928
OR10G4	0.42	0.448171	0.924
OR2D2	0.42	0.448172	0.924
OR4C12	0.42	0.448171	0.924
OR51M1	0.42	0.448171	0.924
OR52R1	0.42	0.448172	0.924
OR56A5	0.42	0.448171	0.924
OR6C6	0.42	0.448171	0.924
OXCT2	0.42	0.448171	0.924
PARD3	0.42	0.448171	0.924
PBOV1	0.42	0.448172	0.924
PCDHA8	0.42	0.448171	0.924
PGC	0.42	0.448171	0.924
PPP1R17	0.42	0.448172	0.924
RAB40C	0.42	0.448172	0.924
RASSF1	0.42	0.448172	0.924
RIMBP3B	0.42	0.448172	0.924

RNF223	0.42	0.448172	0.924
RPL27	0.42	0.471025	0.928
RRM2B	0.42	0.448171	0.924
SCAF8	0.42	0.448171	0.924
SECISBP2L	0.42	0.448171	0.924
SHISA3	0.42	0.448171	0.924
SHMT1	0.42	0.448171	0.924
SHPK	0.42	0.471025	0.928
SSTR3	0.42	0.496056	0.932
TCEB3CL	0.42	0.448171	0.924
TMEM255B	0.42	0.448171	0.924
TMEM52B	0.42	0.448171	0.924
TMEM86A	0.42	0.448172	0.924
TMPPE	0.42	0.448171	0.924
TP53TG5	0.42	0.448172	0.924
TPGS2	0.42	0.448171	0.924
TRIM32	0.42	0.448172	0.924
TRIM51	0.42	0.448172	0.924
TSPAN17	0.42	0.448171	0.924
UTRN	0.42	0.471025	0.928
VDR	0.42	0.448171	0.924
WDR35	0.42	0.448172	0.924
ZCWPW1	0.42	0.471025	0.928
ZMYM6	0.42	0.448171	0.924
ZNF322	0.42	0.448171	0.924
ZNF485	0.42	0.448172	0.924
ZNF683	0.42	0.471025	0.928
ZNF714	0.42	0.448172	0.924
ZNF772	0.42	0.448171	0.924
ZNF777	0.42	0.448171	0.924
A4GALT	0.43	0.460768	0.924
ACSF3	0.43	0.437707	0.924
ADH4	0.43	0.460768	0.924
AGTRAP	0.43	0.437707	0.924
AGXT2	0.43	0.437707	0.924
ANKRD49	0.43	0.437707	0.924
ANO1	0.43	0.437706	0.924
ARHGEF17	0.43	0.437707	0.924
ARPC1A	0.43	0.437706	0.924
ARPC1B	0.43	0.437706	0.924
BYSL	0.43	0.460768	0.924
C11orf21	0.43	0.437707	0.924
C16orf58	0.43	0.460768	0.924
C6orf57	0.43	0.437706	0.924
CENPW	0.43	0.460768	0.924
CNN2	0.43	0.437707	0.924
CYP7A1	0.43	0.437707	0.924

DEFA1	0.43	0.437707	0.924
DEFA1B	0.43	0.437707	0.924
DNAH9	0.43	0.437707	0.924
DNASE2B	0.43	0.437706	0.924
DPP7	0.43	0.460768	0.924
ECI2	0.43	0.437706	0.924
EDDM3B	0.43	0.437706	0.924
EIF1AD	0.43	0.460768	0.924
EIF3C	0.43	0.437707	0.924
ERAP1	0.43	0.437707	0.924
FAM214B	0.43	0.437707	0.924
FAT1	0.43	0.437706	0.924
FOLH1B	0.43	0.437706	0.924
FOSB	0.43	0.437706	0.924
FYTTD1	0.43	0.437707	0.924
GAREML	0.43	0.437706	0.924
GAST	0.43	0.437707	0.924
GDPD4	0.43	0.437707	0.924
GLG1	0.43	0.460768	0.924
GRIA3	0.43	0.460768	0.924
HAUS4	0.43	0.437706	0.924
HPS6	0.43	0.437706	0.924
HS2ST1	0.43	0.437707	0.924
IBSP	0.43	0.437707	0.924
IKBKE	0.43	0.437707	0.924
IPO8	0.43	0.437707	0.924
ITGA11	0.43	0.460768	0.924
ITLN1	0.43	0.437707	0.924
KDEL2	0.43	0.437707	0.924
KIAA1586	0.43	0.460768	0.924
KIT	0.43	0.437706	0.924
KRTAP5-8	0.43	0.437706	0.924
KXD1	0.43	0.437706	0.924
LIPT2	0.43	0.437707	0.924
MAGEA12	0.43	0.437707	0.924
MEGF11	0.43	0.437707	0.924
MLLT1	0.43	0.437707	0.924
MRPL19	0.43	0.460768	0.924
NMUR2	0.43	0.437707	0.924
NOP10	0.43	0.437706	0.924
NPAS3	0.43	0.437707	0.924
NR0B2	0.43	0.437707	0.924
NUDT19	0.43	0.437706	0.924
ODF1	0.43	0.460768	0.924
OR7D2	0.43	0.437707	0.924
PARP10	0.43	0.437707	0.924
PEA15	0.43	0.437707	0.924

PHF21B	0.43	0.437707	0.924
POLA1	0.43	0.513575	0.933
PPARG	0.43	0.460768	0.924
PPM1M	0.43	0.437707	0.924
PRR21	0.43	0.437707	0.924
QPCT	0.43	0.437707	0.924
QSOX1	0.43	0.437707	0.924
RAB40B	0.43	0.437707	0.924
RBM23	0.43	0.437707	0.924
RDH10	0.43	0.437706	0.924
REPIN1	0.43	0.437706	0.924
RPL3L	0.43	0.437707	0.924
RRP1B	0.43	0.437706	0.924
RSRC2	0.43	0.486157	0.931
SLAMF6	0.43	0.437706	0.924
SLFN13	0.43	0.437707	0.924
SMARCA4	0.43	0.460768	0.924
SNRNP200	0.43	0.513575	0.933
SPIRE2	0.43	0.437706	0.924
ST5	0.43	0.437707	0.924
STRN	0.43	0.460768	0.924
TCP11L2	0.43	0.437707	0.924
TMEM119	0.43	0.460768	0.924
TMEM126B	0.43	0.460768	0.924
TMEM14A	0.43	0.437706	0.924
TOMM6	0.43	0.437706	0.924
TRIM13	0.43	0.437707	0.924
U2AF1L4	0.43	0.437706	0.924
UBTF	0.43	0.460768	0.924
ZBTB10	0.43	0.437707	0.924
ZDHHC20	0.43	0.437707	0.924
ZNF365	0.43	0.437706	0.924
ZNF385A	0.43	0.437706	0.924
ZNF555	0.43	0.437706	0.924
ZNF589	0.43	0.437707	0.924
ZNF829	0.43	0.437706	0.924
AK5	0.44	0.427497	0.923
ALKBH8	0.44	0.427497	0.923
ANGPT1	0.44	0.45069	0.924
APLP2	0.44	0.427498	0.923
ARFIP2	0.44	0.45069	0.924
ARHGAP32	0.44	0.427498	0.923
ARL2	0.44	0.476372	0.928
ARPC4-TTLI	0.44	0.427498	0.923
C19orf26	0.44	0.427498	0.923
C3orf30	0.44	0.427497	0.923
C5orf15	0.44	0.427497	0.923

CCR2	0.44	0.427498	0.923
CDC45	0.44	0.534517	0.939
CEP85	0.44	0.427498	0.923
CLCC1	0.44	0.427498	0.923
CLPP	0.44	0.427498	0.923
CNOT11	0.44	0.504075	0.933
COPB2	0.44	0.504076	0.933
CPZ	0.44	0.427498	0.923
CREB3L2	0.44	0.427498	0.923
CRYGC	0.44	0.427498	0.923
DMRTB1	0.44	0.427497	0.923
DUOXA2	0.44	0.427498	0.923
EPOR	0.44	0.427498	0.923
ERN1	0.44	0.427498	0.923
FOSL2	0.44	0.427498	0.923
FOXH1	0.44	0.427498	0.923
FUT2	0.44	0.427498	0.923
H6PD	0.44	0.427498	0.923
HBZ	0.44	0.427498	0.923
HHEX	0.44	0.427498	0.923
HN1L	0.44	0.427498	0.923
HNRNPCL2	0.44	0.504075	0.933
HNRNPUL1	0.44	0.427497	0.923
INMT	0.44	0.427498	0.923
IYD	0.44	0.427497	0.923
KANSL3	0.44	0.427498	0.923
KIAA1671	0.44	0.45069	0.924
KRT80	0.44	0.45069	0.924
KRTAP13-4	0.44	0.427498	0.923
LCE1E	0.44	0.427498	0.923
LRRN4	0.44	0.427498	0.923
LY6K	0.44	0.427498	0.923
MAN2B1	0.44	0.427498	0.923
MRPL13	0.44	0.427498	0.923
NCOA5	0.44	0.45069	0.924
NFIC	0.44	0.427498	0.923
NIM1	0.44	0.427498	0.923
NMU	0.44	0.427498	0.923
NT5DC1	0.44	0.427498	0.923
OR2M7	0.44	0.427498	0.923
OR5A1	0.44	0.427497	0.923
OR5H15	0.44	0.427498	0.923
PAIP2B	0.44	0.427498	0.923
PANX1	0.44	0.427498	0.923
PDE4DIP	0.44	0.427497	0.923
PLA2G4A	0.44	0.427498	0.923
PLP1	0.44	0.427497	0.923

PPHLN1	0.44	0.427498	0.923
PRSS27	0.44	0.427497	0.923
PSMD8	0.44	0.427497	0.923
PTGFRN	0.44	0.45069	0.924
RAB19	0.44	0.45069	0.924
RAPGEF4	0.44	0.427498	0.923
RGPD2	0.44	0.427498	0.923
RXFP1	0.44	0.427498	0.923
SCLY	0.44	0.45069	0.924
SLC12A8	0.44	0.45069	0.924
SLC2A6	0.44	0.427498	0.923
SLC39A14	0.44	0.427498	0.923
SLC5A2	0.44	0.427498	0.923
SLFN12	0.44	0.427498	0.923
SUSD1	0.44	0.427498	0.923
TCEAL5	0.44	0.427498	0.923
TGM1	0.44	0.427497	0.923
THEMIS2	0.44	0.427498	0.923
TLR8	0.44	0.427498	0.923
TMEM232	0.44	0.45069	0.924
TMEM234	0.44	0.427497	0.923
TMEM8C	0.44	0.427498	0.923
TRIM17	0.44	0.45069	0.924
VPS72	0.44	0.45069	0.924
WDR24	0.44	0.427498	0.923
ZCCHC13	0.44	0.45069	0.924
ZFAND2B	0.44	0.45069	0.924
ZMAT5	0.44	0.45069	0.924
ZNF354B	0.44	0.427498	0.923
ZNF585A	0.44	0.427497	0.923
ZNF704	0.44	0.427498	0.923
ABLIM1	0.45	0.417344	0.919
ANO5	0.45	0.417344	0.919
ARV1	0.45	0.440798	0.924
ASPDH	0.45	0.440799	0.924
ATP5L	0.45	0.440799	0.924
BCL2A1	0.45	0.417345	0.919
C12orf50	0.45	0.417344	0.919
C1orf158	0.45	0.417345	0.919
C1orf35	0.45	0.440799	0.924
C9orf72	0.45	0.417344	0.919
CAPRIN2	0.45	0.417344	0.919
CCNB1IP1	0.45	0.417344	0.919
CCT3	0.45	0.440799	0.924
CCZ1B	0.45	0.417344	0.919
CD48	0.45	0.417344	0.919
CEACAM4	0.45	0.417344	0.919

CLIP3	0.45	0.417344	0.919
CMTM7	0.45	0.417344	0.919
CSNK1G3	0.45	0.417344	0.919
CTAG1A	0.45	0.417344	0.919
CTAG1B	0.45	0.417344	0.919
DCP1B	0.45	0.417344	0.919
DHX38	0.45	0.440798	0.924
DIP2C	0.45	0.417344	0.919
DNAH14	0.45	0.417344	0.919
DNMT3A	0.45	0.417344	0.919
EHBP1L1	0.45	0.417344	0.919
EIF4A2	0.45	0.417344	0.919
ERICH2	0.45	0.417344	0.919
EVI2B	0.45	0.417344	0.919
FBXO38	0.45	0.417344	0.919
FOXO6	0.45	0.466626	0.928
FTHL17	0.45	0.417344	0.919
GAB2	0.45	0.417344	0.919
GAPT	0.45	0.417344	0.919
GNAS	0.45	0.417344	0.919
GOT1	0.45	0.417344	0.919
GSTK1	0.45	0.417345	0.919
GSTT1	0.45	0.417344	0.919
IFNA13	0.45	0.417344	0.919
KCNA2	0.45	0.417344	0.919
KLK3	0.45	0.417344	0.919
KLRC3	0.45	0.417344	0.919
LSS	0.45	0.417344	0.919
MAN2B2	0.45	0.417344	0.919
MANF	0.45	0.417344	0.919
MAPKAPK2	0.45	0.417345	0.919
MCCC1	0.45	0.417344	0.919
MGAT4A	0.45	0.417344	0.919
MYL1	0.45	0.417344	0.919
NDST4	0.45	0.417344	0.919
NHSL2	0.45	0.417345	0.919
NPAS1	0.45	0.417344	0.919
PARD3B	0.45	0.417344	0.919
PEMT	0.45	0.417344	0.919
PHF20L1	0.45	0.417344	0.919
PLGLB1	0.45	0.417344	0.919
PLGLB2	0.45	0.417344	0.919
POLR3F	0.45	0.417345	0.919
POTEM	0.45	0.417344	0.919
RAB31	0.45	0.417344	0.919
RBL2	0.45	0.440798	0.924
RCAN3	0.45	0.440798	0.924

RCE1	0.45	0.417344	0.919
RGMA	0.45	0.417344	0.919
RPS18	0.45	0.417344	0.919
SCARB2	0.45	0.440798	0.924
SDHAF1	0.45	0.417344	0.919
SEMA3D	0.45	0.417344	0.919
SKIV2L	0.45	0.466626	0.928
SLC25A13	0.45	0.417344	0.919
SLC27A2	0.45	0.417345	0.919
SLC34A2	0.45	0.417344	0.919
SPDYA	0.45	0.417344	0.919
SPDYE4	0.45	0.417344	0.919
SPRY3	0.45	0.417345	0.919
SUV39H2	0.45	0.417344	0.919
TAS2R41	0.45	0.440798	0.924
TBC1D30	0.45	0.417344	0.919
TBC1D3B	0.45	0.417344	0.919
TIGIT	0.45	0.417344	0.919
TNFRSF1A	0.45	0.417345	0.919
TPD52L3	0.45	0.417344	0.919
TRPV1	0.45	0.440798	0.924
TUBG2	0.45	0.417344	0.919
TYMP	0.45	0.417344	0.919
UNC45A	0.45	0.440798	0.924
VAMP5	0.45	0.417344	0.919
ZNF107	0.45	0.417344	0.919
ZNF3	0.45	0.417344	0.919
ZNF37A	0.45	0.417344	0.919
ZNF563	0.45	0.417345	0.919
ZNF575	0.45	0.440798	0.924
ABCC6	0.46	0.407438	0.917
ACP2	0.46	0.407438	0.917
AMIGO1	0.46	0.430927	0.924
ANKLE1	0.46	0.407438	0.917
ARIH2OS	0.46	0.407438	0.917
BIRC8	0.46	0.407438	0.917
C11orf63	0.46	0.407438	0.917
C3orf14	0.46	0.407438	0.917
CAGE1	0.46	0.407438	0.917
CARD14	0.46	0.407438	0.917
CBLN1	0.46	0.430927	0.924
CCZ1	0.46	0.407438	0.917
CD52	0.46	0.430927	0.924
COL19A1	0.46	0.430926	0.924
CTCFL	0.46	0.407438	0.917
EIF1AY	0.46	0.407438	0.917
EIF2AK1	0.46	0.430927	0.924

EIF2B4	0.46	0.430927	0.924
ERO1L	0.46	0.407438	0.917
F3	0.46	0.407438	0.917
FAM9B	0.46	0.456996	0.924
FAT3	0.46	0.407438	0.917
FSD1L	0.46	0.407438	0.917
FTSJ3	0.46	0.407438	0.917
FZD10	0.46	0.407438	0.917
GC	0.46	0.430927	0.924
GPR182	0.46	0.407438	0.917
GTF2E1	0.46	0.407438	0.917
HDGFRP2	0.46	0.430927	0.924
IL12RB1	0.46	0.407438	0.917
KCNK4	0.46	0.407438	0.917
KLHDC8B	0.46	0.407438	0.917
KMT2C	0.46	0.430926	0.924
LRRC43	0.46	0.430927	0.924
MAST4	0.46	0.430927	0.924
MEIOB	0.46	0.407438	0.917
MOB3A	0.46	0.407438	0.917
MPPED2	0.46	0.407438	0.917
NDST3	0.46	0.407438	0.917
NFIX	0.46	0.407438	0.917
NKX3-1	0.46	0.456996	0.924
NT5C3B	0.46	0.407438	0.917
OR1Q1	0.46	0.485507	0.931
OR2G2	0.46	0.407438	0.917
OR6A2	0.46	0.407438	0.917
ORC1	0.46	0.430927	0.924
PAX4	0.46	0.407438	0.917
PDLIM1	0.46	0.407438	0.917
PIP5KL1	0.46	0.407438	0.917
PLXNA1	0.46	0.407438	0.917
PLXNC1	0.46	0.407438	0.917
PRR16	0.46	0.430927	0.924
PRUNE	0.46	0.407438	0.917
PRUNE2	0.46	0.407438	0.917
PUS10	0.46	0.430927	0.924
RGPD3	0.46	0.407438	0.917
RRAS	0.46	0.407438	0.917
RSL24D1	0.46	0.407438	0.917
RTN4RL2	0.46	0.407438	0.917
S100A4	0.46	0.407438	0.917
SCN3B	0.46	0.430927	0.924
SHH	0.46	0.407438	0.917
SKI	0.46	0.407438	0.917
SLC18A3	0.46	0.407438	0.917

TAS2R30	0.46	0.407438	0.917
TBC1D3F	0.46	0.407438	0.917
TDO2	0.46	0.407438	0.917
TIMM23	0.46	0.407438	0.917
TLDC1	0.46	0.407438	0.917
TLN2	0.46	0.430927	0.924
TMEM258	0.46	0.407438	0.917
TMPRSS4	0.46	0.407438	0.917
TTL3	0.46	0.407438	0.917
TTR	0.46	0.407438	0.917
TXNDC17	0.46	0.407438	0.917
WNT7B	0.46	0.407438	0.917
ZNF185	0.46	0.430926	0.924
ZNF25	0.46	0.407438	0.917
ZNF280C	0.46	0.407438	0.917
ZNF511	0.46	0.430927	0.924
ZNF558	0.46	0.430926	0.924
ANKRD18B	0.47	0.397585	0.911
APBA1	0.47	0.397585	0.911
ARL13A	0.47	0.397585	0.911
BTBD3	0.47	0.397585	0.911
BUD31	0.47	0.507907	0.933
CACNA1S	0.47	0.397585	0.911
CALML5	0.47	0.397585	0.911
CASKIN2	0.47	0.397585	0.911
CCDC110	0.47	0.397585	0.911
CCDC158	0.47	0.397585	0.911
CCDC172	0.47	0.42121	0.923
CCL28	0.47	0.397586	0.911
CHD1L	0.47	0.397585	0.911
CNFN	0.47	0.397585	0.911
CNTNAP3B	0.47	0.397586	0.911
COMMD4	0.47	0.397585	0.911
CPNE8	0.47	0.397585	0.911
CX3CR1	0.47	0.397586	0.911
CYS1	0.47	0.397585	0.911
DDX50	0.47	0.447511	0.924
DIEXF	0.47	0.421211	0.923
DLK1	0.47	0.397586	0.911
DOHH	0.47	0.421211	0.923
DYRK4	0.47	0.397585	0.911
EIF5A2	0.47	0.397586	0.911
FAM229A	0.47	0.397585	0.911
FBXO25	0.47	0.397585	0.911
FIGNL2	0.47	0.397586	0.911
FOSL1	0.47	0.397586	0.911
GATSL2	0.47	0.397585	0.911

GDAP1L1	0.47	0.397586	0.911
GNLY	0.47	0.397585	0.911
GRAMD1C	0.47	0.397585	0.911
GRIN2D	0.47	0.397585	0.911
GSG2	0.47	0.421211	0.923
GSTCD	0.47	0.397586	0.911
HEXIM1	0.47	0.397586	0.911
HIST1H4G	0.47	0.397586	0.911
HOXA9	0.47	0.397585	0.911
INCA1	0.47	0.421211	0.923
INTS9	0.47	0.421211	0.923
IQSEC3	0.47	0.397585	0.911
KAT6B	0.47	0.42121	0.923
KATNAL2	0.47	0.397586	0.911
KLF15	0.47	0.397585	0.911
LEFTY2	0.47	0.397586	0.911
LONP1	0.47	0.447511	0.924
MAN2A2	0.47	0.397585	0.911
MCIDAS	0.47	0.397586	0.911
METTL25	0.47	0.397585	0.911
MICALL1	0.47	0.397585	0.911
MLXIP	0.47	0.476357	0.928
MRPL41	0.47	0.476358	0.928
NCAPD3	0.47	0.397585	0.911
NT5C1B-RD	0.47	0.397586	0.911
NUP214	0.47	0.421211	0.923
OCLN	0.47	0.397586	0.911
OLA1	0.47	0.397585	0.911
OR4F16	0.47	0.397585	0.911
OR4F29	0.47	0.397585	0.911
OR4F3	0.47	0.397585	0.911
OR52J3	0.47	0.397585	0.911
OR5L2	0.47	0.397585	0.911
OR6C76	0.47	0.397586	0.911
OSGEPL1	0.47	0.397585	0.911
PARP6	0.47	0.397586	0.911
PODNL1	0.47	0.397585	0.911
POLR1E	0.47	0.421211	0.923
POMC	0.47	0.397585	0.911
PPP2R5A	0.47	0.397586	0.911
PXDNL	0.47	0.397585	0.911
RBM7	0.47	0.42121	0.923
RGMB	0.47	0.421211	0.923
ROS1	0.47	0.397585	0.911
RRS1	0.47	0.447511	0.924
SDF2	0.47	0.397585	0.911
SH2D4A	0.47	0.421211	0.923

SIPA1L1	0.47	0.397586	0.911
SLC22A1	0.47	0.397585	0.911
SLC40A1	0.47	0.397586	0.911
SLIRP	0.47	0.397586	0.911
SMIM3	0.47	0.42121	0.923
SPDL1	0.47	0.397585	0.911
SREK1IP1	0.47	0.421211	0.923
SYT9	0.47	0.447511	0.924
TDRP	0.47	0.397586	0.911
TEKT2	0.47	0.397585	0.911
TEX261	0.47	0.397586	0.911
THADA	0.47	0.397586	0.911
THOC5	0.47	0.421211	0.923
TLCD2	0.47	0.397586	0.911
TPPP2	0.47	0.397585	0.911
USP40	0.47	0.397586	0.911
WDR3	0.47	0.476358	0.928
WDR60	0.47	0.397585	0.911
WNT11	0.47	0.397586	0.911
XKR7	0.47	0.397585	0.911
ZGRF1	0.47	0.397585	0.911
ZNF132	0.47	0.397585	0.911
ZNF587	0.47	0.397585	0.911
ZNF787	0.47	0.397586	0.911
ZNF814	0.47	0.397585	0.911
ACOT1	0.48	0.387903	0.908
ACSL6	0.48	0.387903	0.908
ADAMTS17	0.48	0.387903	0.908
ADAMTS20	0.48	0.411665	0.919
ALAD	0.48	0.411665	0.919
ALDH1A1	0.48	0.387903	0.908
ALDH7A1	0.48	0.387903	0.908
ANKRD30B	0.48	0.387902	0.908
APOO	0.48	0.387903	0.908
BTBD17	0.48	0.387903	0.908
BTRC	0.48	0.387903	0.908
C9orf156	0.48	0.387903	0.908
C9orf163	0.48	0.387903	0.908
CCDC47	0.48	0.387902	0.908
CDX4	0.48	0.387903	0.908
CHST8	0.48	0.411666	0.919
COA1	0.48	0.387903	0.908
COMMD2	0.48	0.411665	0.919
DCTD	0.48	0.387903	0.908
DIS3L	0.48	0.411665	0.919
DPY19L3	0.48	0.387903	0.908
DUSP4	0.48	0.387903	0.908

EIF4B	0.48	0.387903	0.908
ERF	0.48	0.411666	0.919
EVX1	0.48	0.387903	0.908
FAHD1	0.48	0.387902	0.908
FAM103A1	0.48	0.387903	0.908
FBL	0.48	0.411666	0.919
FGF16	0.48	0.387903	0.908
FHIT	0.48	0.387902	0.908
FHL3	0.48	0.387902	0.908
FRMD1	0.48	0.387903	0.908
FUT1	0.48	0.411665	0.919
GABRP	0.48	0.387903	0.908
GPR98	0.48	0.438164	0.924
GRIK3	0.48	0.387903	0.908
HPX	0.48	0.387902	0.908
HRASLS5	0.48	0.387902	0.908
IMMP1L	0.48	0.387903	0.908
IRG1	0.48	0.387902	0.908
ITPKA	0.48	0.387903	0.908
JPH1	0.48	0.387903	0.908
KANK2	0.48	0.411665	0.919
KBTBD3	0.48	0.387903	0.908
KCNB2	0.48	0.387903	0.908
KIF26B	0.48	0.387903	0.908
LECT2	0.48	0.387903	0.908
LY6H	0.48	0.387902	0.908
LYSMD3	0.48	0.387902	0.908
MAMLD1	0.48	0.387903	0.908
MMP11	0.48	0.387903	0.908
MRGPRE	0.48	0.387903	0.908
MRPL44	0.48	0.411666	0.919
MTERFD3	0.48	0.387903	0.908
MYO1C	0.48	0.387903	0.908
MYOD1	0.48	0.387903	0.908
NDUFA11	0.48	0.387903	0.908
PNPLA5	0.48	0.387903	0.908
POLD1	0.48	0.438164	0.924
POSTN	0.48	0.387903	0.908
POU4F2	0.48	0.387903	0.908
PRKAA2	0.48	0.387903	0.908
PSMA7	0.48	0.467234	0.928
PSMC2	0.48	0.438164	0.924
PTGS2	0.48	0.387902	0.908
PTPN9	0.48	0.387903	0.908
PYGO2	0.48	0.387903	0.908
RNF170	0.48	0.387903	0.908
RNF32	0.48	0.387903	0.908

RSAD1	0.48	0.438163	0.924
SAMD11	0.48	0.387903	0.908
SCG5	0.48	0.411665	0.919
SCGB1D1	0.48	0.387903	0.908
SHOC2	0.48	0.411665	0.919
SI	0.48	0.387903	0.908
SIRPG	0.48	0.387903	0.908
SLC22A24	0.48	0.387902	0.908
SLC8A2	0.48	0.411665	0.919
SNUPN	0.48	0.411665	0.919
SNX16	0.48	0.387903	0.908
SPC25	0.48	0.438164	0.924
STH	0.48	0.387903	0.908
STON1	0.48	0.387902	0.908
STXBP6	0.48	0.387902	0.908
SYCP1	0.48	0.387902	0.908
TAS2R40	0.48	0.387903	0.908
TMEM151B	0.48	0.387903	0.908
TMEM80	0.48	0.387903	0.908
TTC23L	0.48	0.387903	0.908
TXNDC9	0.48	0.387903	0.908
VAT1	0.48	0.387903	0.908
ZMAT4	0.48	0.387903	0.908
ZNF567	0.48	0.387903	0.908
ZNF75D	0.48	0.387903	0.908
ZNF808	0.48	0.387903	0.908
ZNF878	0.48	0.387903	0.908
ABCC10	0.49	0.378307	0.908
ADAMTS12	0.49	0.378308	0.908
ADGB	0.49	0.458263	0.924
ALYREF	0.49	0.378308	0.908
ANKRD35	0.49	0.402272	0.917
ATP10A	0.49	0.378308	0.908
B4GALT1	0.49	0.378308	0.908
BIN1	0.49	0.378307	0.908
C14orf177	0.49	0.378308	0.908
C2orf76	0.49	0.378308	0.908
CAPN11	0.49	0.378307	0.908
CCDC80	0.49	0.378308	0.908
CCL21	0.49	0.378308	0.908
CCNI2	0.49	0.378308	0.908
CD9	0.49	0.402273	0.917
CEP41	0.49	0.378308	0.908
CEP63	0.49	0.402272	0.917
CLASP2	0.49	0.378308	0.908
CMKLR1	0.49	0.378307	0.908
CNR2	0.49	0.378308	0.908

CSPG4	0.49	0.378307	0.908
CYB5R1	0.49	0.378308	0.908
DENND3	0.49	0.378308	0.908
DGCR6L	0.49	0.378308	0.908
DUSP14	0.49	0.378308	0.908
EPX	0.49	0.378308	0.908
FBN3	0.49	0.402273	0.917
GALNT6	0.49	0.402273	0.917
GFRAL	0.49	0.378308	0.908
GIMAP5	0.49	0.378308	0.908
GLTSCR1L	0.49	0.378308	0.908
GP1BB	0.49	0.378307	0.908
GPRC5D	0.49	0.378308	0.908
HCLS1	0.49	0.428939	0.924
HIATL1	0.49	0.378308	0.908
HNRNPA1	0.49	0.378308	0.908
HOXC4	0.49	0.378308	0.908
IFITM5	0.49	0.378307	0.908
IGSF6	0.49	0.378308	0.908
IP6K1	0.49	0.378308	0.908
IQCF6	0.49	0.378307	0.908
ITGA8	0.49	0.378307	0.908
JMJD8	0.49	0.378308	0.908
KANK3	0.49	0.378307	0.908
KBTBD4	0.49	0.402272	0.917
KCNQ2	0.49	0.402273	0.917
KIRREL2	0.49	0.378308	0.908
LCE4A	0.49	0.378307	0.908
LRRC8B	0.49	0.378308	0.908
LTA4H	0.49	0.378308	0.908
LUZP4	0.49	0.378308	0.908
MAOA	0.49	0.42894	0.924
MTHFS	0.49	0.378308	0.908
MYO10	0.49	0.378307	0.908
NBN	0.49	0.378308	0.908
NKX2-8	0.49	0.378308	0.908
OPTC	0.49	0.378308	0.908
OR10Q1	0.49	0.378308	0.908
OR51E2	0.49	0.428939	0.924
P2RX7	0.49	0.378308	0.908
PACRGL	0.49	0.378308	0.908
PAQR4	0.49	0.378308	0.908
PCDHA12	0.49	0.378308	0.908
PDE8A	0.49	0.378308	0.908
PLEKHA7	0.49	0.378308	0.908
PRKRIP1	0.49	0.378307	0.908
PRSS35	0.49	0.378307	0.908

PTGIS	0.49	0.378308	0.908
REL	0.49	0.378308	0.908
REV3L	0.49	0.378308	0.908
RPS20	0.49	0.378307	0.908
S100A12	0.49	0.378308	0.908
SLC25A20	0.49	0.378308	0.908
SLFN11	0.49	0.378308	0.908
SNX1	0.49	0.378308	0.908
SPINK7	0.49	0.378308	0.908
SYNE3	0.49	0.378307	0.908
TAAR6	0.49	0.378308	0.908
TBXA2R	0.49	0.402272	0.917
TGS1	0.49	0.378308	0.908
TMEM216	0.49	0.378308	0.908
TRIM39	0.49	0.378308	0.908
TSFM	0.49	0.378308	0.908
USP10	0.49	0.378307	0.908
USP14	0.49	0.378308	0.908
YIF1A	0.49	0.402272	0.917
ZDHHC1	0.49	0.378308	0.908
ZNF706	0.49	0.378308	0.908
ACSBG2	0.5	0.368922	0.905
ADGRB1	0.5	0.368922	0.905
ANKRD16	0.5	0.392985	0.911
BCL2L2-PAE	0.5	0.368922	0.905
C11orf85	0.5	0.368923	0.905
C14orf1	0.5	0.368922	0.905
C17orf59	0.5	0.368922	0.905
C1orf173	0.5	0.368922	0.905
CAD	0.5	0.368922	0.905
CCDC127	0.5	0.368922	0.905
CCDC42B	0.5	0.392985	0.911
CCDC96	0.5	0.392985	0.911
CEACAM19	0.5	0.368922	0.905
CFTR	0.5	0.368922	0.905
CORO1A	0.5	0.368922	0.905
CPB1	0.5	0.368922	0.905
CXXC1	0.5	0.368922	0.905
DCAF4L2	0.5	0.368922	0.905
DENND1B	0.5	0.368922	0.905
DEPDC1	0.5	0.368922	0.905
DGCR2	0.5	0.368922	0.905
DVL2	0.5	0.368922	0.905
EID2	0.5	0.368922	0.905
ENOX2	0.5	0.368922	0.905
FAM13A	0.5	0.368922	0.905
FAM86B1	0.5	0.368923	0.905

FCGBP	0.5	0.368922	0.905
GALNT12	0.5	0.368922	0.905
GLT8D2	0.5	0.368922	0.905
GRIN1	0.5	0.392986	0.911
HIPK4	0.5	0.368923	0.905
HIST1H2BE	0.5	0.368922	0.905
HMGCLL1	0.5	0.368922	0.905
HRH3	0.5	0.368922	0.905
IFIH1	0.5	0.368922	0.905
IL11RA	0.5	0.368922	0.905
IL1RL1	0.5	0.368922	0.905
IL2RB	0.5	0.368923	0.905
IRS2	0.5	0.368922	0.905
KLHL11	0.5	0.392985	0.911
KRT222	0.5	0.368923	0.905
LCE6A	0.5	0.368923	0.905
LINGO1	0.5	0.392985	0.911
LIPN	0.5	0.368923	0.905
LONRF2	0.5	0.392985	0.911
LPAR5	0.5	0.368922	0.905
LSM10	0.5	0.368922	0.905
MDC1	0.5	0.419847	0.923
MED22	0.5	0.392985	0.911
MLLT3	0.5	0.368922	0.905
MMP21	0.5	0.368922	0.905
MRC1	0.5	0.368922	0.905
NABP1	0.5	0.368922	0.905
NFIB	0.5	0.368922	0.905
NPY	0.5	0.368922	0.905
NSUN7	0.5	0.368922	0.905
OPLAH	0.5	0.368922	0.905
OR10H4	0.5	0.368922	0.905
OR4C15	0.5	0.368922	0.905
OR4D9	0.5	0.368923	0.905
OR6K6	0.5	0.368923	0.905
OR8B8	0.5	0.368922	0.905
PABPC1	0.5	0.392985	0.911
PAK4	0.5	0.368923	0.905
PEF1	0.5	0.368922	0.905
PLAA	0.5	0.368922	0.905
PMEPA1	0.5	0.368922	0.905
POU5F1B	0.5	0.368922	0.905
PPP1R14C	0.5	0.392985	0.911
PPP1R3D	0.5	0.368922	0.905
RAB33A	0.5	0.368922	0.905
RABGAP1	0.5	0.368922	0.905
RPAP3	0.5	0.368922	0.905

RRM2	0.5	0.519179	0.938
RUNX1	0.5	0.392986	0.911
SGSM2	0.5	0.368922	0.905
SHISA5	0.5	0.368922	0.905
SLC38A6	0.5	0.368922	0.905
SMURF1	0.5	0.368923	0.905
SNRPD2	0.5	0.419847	0.923
SNX7	0.5	0.368922	0.905
SPINK14	0.5	0.368922	0.905
STX4	0.5	0.368922	0.905
SULT1C3	0.5	0.368922	0.905
TGM7	0.5	0.368922	0.905
TMEM253	0.5	0.368922	0.905
TSGA13	0.5	0.368922	0.905
WEE2	0.5	0.368922	0.905
YIF1B	0.5	0.368922	0.905
YTHDF1	0.5	0.368923	0.905
ZBTB8B	0.5	0.368923	0.905
ZFPM2	0.5	0.368923	0.905
ZNF236	0.5	0.368922	0.905
AAED1	0.51	0.38384	0.908
ACSL1	0.51	0.359633	0.904
ADCK1	0.51	0.359634	0.904
ADH7	0.51	0.359633	0.904
AK3	0.51	0.359634	0.904
ANKLE2	0.51	0.440671	0.924
ANKRD65	0.51	0.38384	0.908
APPBP2	0.51	0.359634	0.904
AQP8	0.51	0.383841	0.908
ARCN1	0.51	0.359634	0.904
ATXN7L3B	0.51	0.359634	0.904
BCAT2	0.51	0.359634	0.904
BOLA3	0.51	0.359634	0.904
BSPRY	0.51	0.359634	0.904
C1orf111	0.51	0.359634	0.904
C1orf159	0.51	0.359634	0.904
C21orf62	0.51	0.359634	0.904
CARD10	0.51	0.38384	0.908
CD1E	0.51	0.359633	0.904
CDH20	0.51	0.359633	0.904
CELF2	0.51	0.359634	0.904
CIDEB	0.51	0.359634	0.904
CILP2	0.51	0.359633	0.904
CREB1	0.51	0.359634	0.904
CYR61	0.51	0.359634	0.904
DARS	0.51	0.38384	0.908
DNASE2	0.51	0.359634	0.904

DRAXIN	0.51	0.359634	0.904
ERCC6L	0.51	0.38384	0.908
FOPNL	0.51	0.359633	0.904
FUT11	0.51	0.38384	0.908
GAP43	0.51	0.383841	0.908
GLIPR1	0.51	0.359634	0.904
GNG8	0.51	0.359634	0.904
GRIN3B	0.51	0.38384	0.908
GULP1	0.51	0.359634	0.904
HYAL3	0.51	0.359633	0.904
IER5	0.51	0.359633	0.904
IL18R1	0.51	0.359633	0.904
ILKAP	0.51	0.359634	0.904
INA	0.51	0.359633	0.904
IRAK3	0.51	0.383841	0.908
JAM2	0.51	0.38384	0.908
KLC4	0.51	0.359634	0.904
KRT85	0.51	0.359634	0.904
LILRB4	0.51	0.38384	0.908
LRRC3	0.51	0.359634	0.904
LRRC48	0.51	0.359634	0.904
LRRTM2	0.51	0.359633	0.904
METTL10	0.51	0.359633	0.904
MRPL24	0.51	0.359633	0.904
MTHFD1L	0.51	0.359634	0.904
MTPAP	0.51	0.359634	0.904
MYBPC1	0.51	0.38384	0.908
NAGPA	0.51	0.359633	0.904
NBPF7	0.51	0.359634	0.904
NDUFS7	0.51	0.359634	0.904
NEO1	0.51	0.38384	0.908
NOS1	0.51	0.38384	0.908
OPRD1	0.51	0.359634	0.904
OR10A6	0.51	0.359634	0.904
OR4S2	0.51	0.359633	0.904
OST4	0.51	0.47354	0.928
PHF7	0.51	0.359633	0.904
PHOX2A	0.51	0.359634	0.904
PIGO	0.51	0.38384	0.908
PKD1L2	0.51	0.359634	0.904
PNPLA3	0.51	0.359634	0.904
PROS1	0.51	0.359634	0.904
PSG11	0.51	0.359634	0.904
RFK	0.51	0.359633	0.904
RFX1	0.51	0.359633	0.904
RGL3	0.51	0.359634	0.904
RNF113B	0.51	0.38384	0.908

RNF141	0.51	0.359634	0.904
RPL22	0.51	0.440671	0.924
RPUSD3	0.51	0.359634	0.904
RWDD1	0.51	0.359633	0.904
SACS	0.51	0.359634	0.904
SLC47A1	0.51	0.359634	0.904
SMARCA5	0.51	0.359633	0.904
SMC4	0.51	0.383841	0.908
SPNS2	0.51	0.38384	0.908
SPRN	0.51	0.359634	0.904
SRRM3	0.51	0.359633	0.904
STAR	0.51	0.38384	0.908
TAAR1	0.51	0.359634	0.904
TAOK3	0.51	0.359633	0.904
THUMPD3	0.51	0.359634	0.904
TMEM132D	0.51	0.359634	0.904
TMEM2	0.51	0.359634	0.904
UBA6	0.51	0.359634	0.904
WASF1	0.51	0.359633	0.904
WISP1	0.51	0.359633	0.904
WWOX	0.51	0.38384	0.908
XPO5	0.51	0.38384	0.908
ZNF224	0.51	0.359634	0.904
ZNF415	0.51	0.359634	0.904
ZNF423	0.51	0.38384	0.908
ZNF536	0.51	0.359634	0.904
ZNF689	0.51	0.359634	0.904
ZP2	0.51	0.359633	0.904
ABHD4	0.52	0.350572	0.904
AHDC1	0.52	0.350572	0.904
AKR1C3	0.52	0.350572	0.904
ANKRD55	0.52	0.350572	0.904
AWAT2	0.52	0.350572	0.904
BCL2L15	0.52	0.350572	0.904
BFSP1	0.52	0.350572	0.904
BOP1	0.52	0.401998	0.917
C12orf65	0.52	0.350572	0.904
C15orf61	0.52	0.350572	0.904
C17orf51	0.52	0.350572	0.904
C2orf71	0.52	0.374797	0.908
C3orf27	0.52	0.350573	0.904
C4A	0.52	0.350572	0.904
CA11	0.52	0.350572	0.904
CAPS	0.52	0.350572	0.904
CATSPER2	0.52	0.350572	0.904
CCRL2	0.52	0.350572	0.904
CD68	0.52	0.43198	0.924

CFB	0.52	0.350573	0.904
CHST6	0.52	0.350572	0.904
COL9A1	0.52	0.350572	0.904
CSMD2	0.52	0.374797	0.908
CYP3A5	0.52	0.350572	0.904
DGKI	0.52	0.374797	0.908
EFEMP2	0.52	0.374797	0.908
EFNB2	0.52	0.350572	0.904
EMP1	0.52	0.350572	0.904
FBXO5	0.52	0.350572	0.904
FNDC3A	0.52	0.350572	0.904
FRRS1	0.52	0.350572	0.904
FXVD2	0.52	0.350572	0.904
GABRE	0.52	0.350572	0.904
GDAP1	0.52	0.350572	0.904
GLB1L3	0.52	0.350573	0.904
GORASP1	0.52	0.350572	0.904
GPR139	0.52	0.350572	0.904
GTPBP1	0.52	0.374797	0.908
HDHD3	0.52	0.374797	0.908
HGD	0.52	0.350572	0.904
HORMAD1	0.52	0.350573	0.904
HSPA12A	0.52	0.350572	0.904
INSL5	0.52	0.350572	0.904
JMY	0.52	0.401998	0.917
KERA	0.52	0.350572	0.904
LPAR2	0.52	0.350572	0.904
LSMEM2	0.52	0.350572	0.904
MAST3	0.52	0.350572	0.904
MED7	0.52	0.350572	0.904
MOAP1	0.52	0.350572	0.904
MRM1	0.52	0.350572	0.904
MRPL22	0.52	0.401998	0.917
MRPL4	0.52	0.350572	0.904
MRPL48	0.52	0.401998	0.917
MTUS1	0.52	0.350572	0.904
MYH10	0.52	0.374797	0.908
NGLY1	0.52	0.350572	0.904
NHP2L1	0.52	0.401998	0.917
NUMA1	0.52	0.350572	0.904
NXNL1	0.52	0.374797	0.908
OR5M11	0.52	0.350572	0.904
PAQR8	0.52	0.350573	0.904
PDZD4	0.52	0.350573	0.904
PIK3C2G	0.52	0.350572	0.904
PPIAL4D	0.52	0.350572	0.904
PPP2R3A	0.52	0.350573	0.904

PRDM13	0.52	0.350572	0.904
PTAFR	0.52	0.350572	0.904
PUS3	0.52	0.350572	0.904
PYCR1	0.52	0.350572	0.904
SERPINI1	0.52	0.350572	0.904
SETD2	0.52	0.401998	0.917
SLC16A4	0.52	0.350572	0.904
SLC6A16	0.52	0.350572	0.904
SLFN5	0.52	0.374797	0.908
SMAD7	0.52	0.350572	0.904
SMARCAL1	0.52	0.350572	0.904
SRM	0.52	0.350572	0.904
SRRM5	0.52	0.350572	0.904
TCEAL2	0.52	0.350572	0.904
TCIRG1	0.52	0.350572	0.904
TMEM260	0.52	0.350572	0.904
TNFRSF18	0.52	0.350572	0.904
TRIM62	0.52	0.350572	0.904
TRIM72	0.52	0.401998	0.917
UBXN4	0.52	0.350572	0.904
VCPIP1	0.52	0.350573	0.904
VSIG10	0.52	0.350572	0.904
WNT8A	0.52	0.350572	0.904
YJEFN3	0.52	0.350572	0.904
ZNF213	0.52	0.350572	0.904
ZNF43	0.52	0.350573	0.904
ZNF836	0.52	0.350572	0.904
ACN9	0.53	0.341654	0.904
ADM2	0.53	0.341654	0.904
ALOX15	0.53	0.365907	0.905
ALS2CL	0.53	0.341654	0.904
AP3D1	0.53	0.341654	0.904
APPL2	0.53	0.341654	0.904
BLM	0.53	0.341654	0.904
BMPER	0.53	0.341654	0.904
C12orf42	0.53	0.341654	0.904
CACNB4	0.53	0.341654	0.904
CARF	0.53	0.341654	0.904
CCDC174	0.53	0.341654	0.904
CCRN4L	0.53	0.341654	0.904
CCT6A	0.53	0.365907	0.905
CD58	0.53	0.341654	0.904
CEP112	0.53	0.341654	0.904
COL1A2	0.53	0.341654	0.904
CTSV	0.53	0.341654	0.904
DLX6	0.53	0.341654	0.904
FAM155B	0.53	0.341654	0.904

FAM173B	0.53	0.341654	0.904
FGF3	0.53	0.341654	0.904
GOLGA6C	0.53	0.341654	0.904
GUCY2D	0.53	0.341654	0.904
H2AFY	0.53	0.341654	0.904
HRK	0.53	0.423412	0.923
IFNL1	0.53	0.341654	0.904
IL1B	0.53	0.341654	0.904
ILK	0.53	0.341654	0.904
KCND1	0.53	0.341654	0.904
KCNJ2	0.53	0.341655	0.904
KCNK17	0.53	0.365906	0.905
LCNL1	0.53	0.341654	0.904
LMBR1L	0.53	0.341655	0.904
M6PR	0.53	0.341654	0.904
MCF2L2	0.53	0.341654	0.904
MT1A	0.53	0.393314	0.911
NDUFB7	0.53	0.393314	0.911
NLRP7	0.53	0.365906	0.905
NRBF2	0.53	0.341655	0.904
NUP160	0.53	0.456828	0.924
OLFM4	0.53	0.365907	0.905
OR4E2	0.53	0.341654	0.904
OR6C2	0.53	0.341654	0.904
PAFAH1B3	0.53	0.341654	0.904
PDPN	0.53	0.341655	0.904
POLDIP3	0.53	0.341654	0.904
PPP1R14B	0.53	0.341654	0.904
PRICKLE2	0.53	0.341655	0.904
PROKR1	0.53	0.365906	0.905
PRSS33	0.53	0.365906	0.905
RHOV	0.53	0.341654	0.904
RLF	0.53	0.341655	0.904
RNF128	0.53	0.341655	0.904
RNF167	0.53	0.341654	0.904
SCP2	0.53	0.341654	0.904
SELO	0.53	0.365906	0.905
SH3BGRL3	0.53	0.341654	0.904
SLC25A33	0.53	0.341654	0.904
SLCO6A1	0.53	0.341654	0.904
SSBP3	0.53	0.341654	0.904
STK32B	0.53	0.341654	0.904
TAF6L	0.53	0.341654	0.904
TAP2	0.53	0.341654	0.904
THOP1	0.53	0.341655	0.904
THSD4	0.53	0.365906	0.905
TJP2	0.53	0.341654	0.904

TSPAN3	0.53	0.341654	0.904
TTF2	0.53	0.341654	0.904
UBL7	0.53	0.341654	0.904
UBN2	0.53	0.341654	0.904
USP26	0.53	0.341654	0.904
USPL1	0.53	0.365907	0.905
YIPF4	0.53	0.341655	0.904
ZCCHC3	0.53	0.365906	0.905
ZDHHC23	0.53	0.341654	0.904
ZNF527	0.53	0.341654	0.904
ZNHIT2	0.53	0.365906	0.905
ACOT9	0.54	0.332839	0.901
AHNAK2	0.54	0.357185	0.904
AKAP1	0.54	0.357185	0.904
ALPK2	0.54	0.332839	0.901
APBB2	0.54	0.332839	0.901
ATP5SL	0.54	0.332838	0.901
BBX	0.54	0.332839	0.901
BMPR1A	0.54	0.332838	0.901
C16orf97	0.54	0.332838	0.901
C4orf32	0.54	0.357185	0.904
C9orf69	0.54	0.357185	0.904
CABS1	0.54	0.332839	0.901
CALR	0.54	0.332838	0.901
CCDC178	0.54	0.332838	0.901
CCL23	0.54	0.332839	0.901
CD47	0.54	0.332838	0.901
CEP72	0.54	0.357185	0.904
CERS4	0.54	0.332839	0.901
CHN1	0.54	0.332839	0.901
COL11A1	0.54	0.332839	0.901
COPZ1	0.54	0.332839	0.901
CPEB3	0.54	0.357185	0.904
CRMP1	0.54	0.357185	0.904
CSH1	0.54	0.332838	0.901
CTSK	0.54	0.357185	0.904
CXorf21	0.54	0.357185	0.904
CYTH3	0.54	0.332838	0.901
DEPDC7	0.54	0.332839	0.901
DHX37	0.54	0.414933	0.919
ELMOD1	0.54	0.357186	0.904
ESPL1	0.54	0.531254	0.939
FANCD2OS	0.54	0.332839	0.901
FERMT3	0.54	0.332839	0.901
FNDC7	0.54	0.332838	0.901
GCA	0.54	0.332839	0.901
GCNT4	0.54	0.332838	0.901

GPATCH2L	0.54	0.332839	0.901
HAPLN4	0.54	0.357186	0.904
HIST1H3A	0.54	0.332838	0.901
HNRNPD	0.54	0.332839	0.901
HOMEZ	0.54	0.357186	0.904
ISY1	0.54	0.414932	0.919
KIAA1737	0.54	0.357185	0.904
KIF1A	0.54	0.332838	0.901
KLHL41	0.54	0.332838	0.901
KRTAP16-1	0.54	0.332839	0.901
LBR	0.54	0.332839	0.901
LRRN1	0.54	0.332839	0.901
MASTL	0.54	0.414932	0.919
MC1R	0.54	0.332839	0.901
MCF2L	0.54	0.332839	0.901
MOXD1	0.54	0.357186	0.904
MTG2	0.54	0.384683	0.908
MTSS1L	0.54	0.332838	0.901
MYO9A	0.54	0.332839	0.901
NCKIPSD	0.54	0.332839	0.901
NLRP1	0.54	0.332838	0.901
OR6C74	0.54	0.332839	0.901
PHPT1	0.54	0.332839	0.901
PMFBP1	0.54	0.332839	0.901
PSMB1	0.54	0.384683	0.908
PWP2	0.54	0.357185	0.904
PYURF	0.54	0.332839	0.901
PYY	0.54	0.332838	0.901
RARA	0.54	0.332839	0.901
RCN3	0.54	0.332839	0.901
RHOF	0.54	0.332839	0.901
RRAGB	0.54	0.332839	0.901
SAMD9L	0.54	0.332839	0.901
SF3A3	0.54	0.414932	0.919
SH3KBP1	0.54	0.357185	0.904
SKA1	0.54	0.332839	0.901
SLC12A4	0.54	0.357185	0.904
SLC12A6	0.54	0.332839	0.901
SLC3A1	0.54	0.332838	0.901
SMIM14	0.54	0.332839	0.901
SPATC1L	0.54	0.332839	0.901
SPRR2B	0.54	0.332838	0.901
SRSF11	0.54	0.332839	0.901
STRIP2	0.54	0.332839	0.901
SURF4	0.54	0.332838	0.901
TAF2	0.54	0.384683	0.908
TALDO1	0.54	0.332838	0.901

TBL1XR1	0.54	0.332838	0.901
TCEAL8	0.54	0.332839	0.901
TIAM1	0.54	0.332839	0.901
TM4SF18	0.54	0.332839	0.901
TSPAN16	0.54	0.332838	0.901
UBE2D1	0.54	0.332838	0.901
UCN3	0.54	0.332838	0.901
VIT	0.54	0.332839	0.901
WBSCR22	0.54	0.384683	0.908
WDR88	0.54	0.332839	0.901
ZNF300	0.54	0.332839	0.901
ADD2	0.55	0.324172	0.9
ALDH1A2	0.55	0.324172	0.9
ATP5G2	0.55	0.324171	0.9
BAX	0.55	0.324171	0.9
C1orf227	0.55	0.324172	0.9
C9orf106	0.55	0.348645	0.904
CACNA2D3	0.55	0.324171	0.9
CD40	0.55	0.324172	0.9
CD79A	0.55	0.348645	0.904
CDIP1	0.55	0.324171	0.9
CDKN2D	0.55	0.324171	0.9
CPVL	0.55	0.324171	0.9
CRTC3	0.55	0.324171	0.9
CXCL13	0.55	0.324171	0.9
DCLRE1A	0.55	0.324172	0.9
DCSTAMP	0.55	0.348645	0.904
DDX27	0.55	0.376107	0.908
DESI1	0.55	0.348645	0.904
DHH	0.55	0.324172	0.9
DLL3	0.55	0.324171	0.9
EGFR	0.55	0.324171	0.9
EGR1	0.55	0.324171	0.9
EHD4	0.55	0.324171	0.9
GEMIN7	0.55	0.324171	0.9
GIN1	0.55	0.324172	0.9
GSTZ1	0.55	0.324172	0.9
HCRTR1	0.55	0.324172	0.9
HIST1H4B	0.55	0.348645	0.904
HOXD1	0.55	0.324171	0.9
IGFBP1	0.55	0.324171	0.9
INTS8	0.55	0.324171	0.9
KCNC2	0.55	0.348645	0.904
LCE2B	0.55	0.324171	0.9
MPRIP	0.55	0.324171	0.9
MRPS9	0.55	0.324171	0.9
MTHFD2L	0.55	0.324171	0.9

MTSS1	0.55	0.324172	0.9
MUSK	0.55	0.324172	0.9
N4BP3	0.55	0.324172	0.9
NDUFB9	0.55	0.324172	0.9
NLRP5	0.55	0.324171	0.9
NPY2R	0.55	0.324172	0.9
OAZ2	0.55	0.324171	0.9
OR6C68	0.55	0.324171	0.9
PADI6	0.55	0.348646	0.904
PAGE5	0.55	0.324171	0.9
PGM1	0.55	0.324171	0.9
PGS1	0.55	0.324171	0.9
PLAUR	0.55	0.324171	0.9
PLEKHH3	0.55	0.348646	0.904
PSORS1C2	0.55	0.324172	0.9
RPL34	0.55	0.440564	0.924
RTN2	0.55	0.324172	0.9
SCCPDH	0.55	0.324171	0.9
SCRN3	0.55	0.324172	0.9
SEC62	0.55	0.324172	0.9
SENP7	0.55	0.324172	0.9
SERTAD3	0.55	0.324171	0.9
SETDB1	0.55	0.348645	0.904
SIGLEC5	0.55	0.348646	0.904
SLC46A3	0.55	0.324171	0.9
SOX7	0.55	0.324171	0.9
SPNS3	0.55	0.324171	0.9
TGIF1	0.55	0.324171	0.9
THAP7	0.55	0.324171	0.9
TMEM147	0.55	0.324172	0.9
TMEM219	0.55	0.348645	0.904
TNIK	0.55	0.348645	0.904
TULP3	0.55	0.324171	0.9
UBASH3A	0.55	0.348646	0.904
VPS8	0.55	0.324171	0.9
VRTN	0.55	0.376107	0.908
WASL	0.55	0.324171	0.9
WDR37	0.55	0.324171	0.9
WIPI2	0.55	0.324171	0.9
ZNF140	0.55	0.348646	0.904
ZNF28	0.55	0.324172	0.9
ZNF395	0.55	0.348645	0.904
ZNF609	0.55	0.324172	0.9
ABCB11	0.56	0.315667	0.895
ABLIM2	0.56	0.315668	0.895
AGTPBP1	0.56	0.315667	0.895
ANKRD34C	0.56	0.315668	0.895

APBB3	0.56	0.315668	0.895
AQP2	0.56	0.315668	0.895
ARMC12	0.56	0.315668	0.895
BCL6B	0.56	0.315667	0.895
BCO2	0.56	0.315668	0.895
C10orf88	0.56	0.315668	0.895
C9orf40	0.56	0.315668	0.895
CAB39L	0.56	0.315668	0.895
CAMK2D	0.56	0.315668	0.895
CCDC61	0.56	0.34017	0.904
CEACAM18	0.56	0.471766	0.928
CKMT1B	0.56	0.34017	0.904
CLEC4G	0.56	0.315668	0.895
CNPY1	0.56	0.315668	0.895
FARP2	0.56	0.315668	0.895
GABRG2	0.56	0.315668	0.895
GLT1D1	0.56	0.315667	0.895
GNPDA1	0.56	0.315668	0.895
GNRH2	0.56	0.315667	0.895
GPR173	0.56	0.315667	0.895
GPR85	0.56	0.315668	0.895
HLA-DMA	0.56	0.34017	0.904
HMX1	0.56	0.34017	0.904
HPS3	0.56	0.315668	0.895
HSD3B7	0.56	0.315668	0.895
KIAA1239	0.56	0.315668	0.895
KIF2B	0.56	0.315668	0.895
KLF14	0.56	0.34017	0.904
KRTAP19-5	0.56	0.315668	0.895
LDOC1	0.56	0.34017	0.904
LGI1	0.56	0.315668	0.895
LIAS	0.56	0.315668	0.895
LRRC37B	0.56	0.315667	0.895
LTV1	0.56	0.315668	0.895
LYPD2	0.56	0.315668	0.895
MAGI3	0.56	0.315668	0.895
MICA	0.56	0.315668	0.895
MICALL2	0.56	0.315668	0.895
MYL6B	0.56	0.315668	0.895
NCF2	0.56	0.315668	0.895
NRG3	0.56	0.315668	0.895
NSUN5	0.56	0.34017	0.904
OR2AK2	0.56	0.315668	0.895
OR2L13	0.56	0.315668	0.895
OTC	0.56	0.315667	0.895
PARP14	0.56	0.315668	0.895
PPM1H	0.56	0.315668	0.895

PPP1R35	0.56	0.34017	0.904
PRCD	0.56	0.315668	0.895
PSCA	0.56	0.315668	0.895
PTRF	0.56	0.315668	0.895
RAB40AL	0.56	0.315667	0.895
RGS13	0.56	0.315668	0.895
RMND1	0.56	0.315668	0.895
SERPINA5	0.56	0.34017	0.904
SIRT2	0.56	0.315668	0.895
SLC30A9	0.56	0.315668	0.895
SLC35G3	0.56	0.315668	0.895
SLC35G6	0.56	0.34017	0.904
SLC39A4	0.56	0.315668	0.895
SLU7	0.56	0.367727	0.905
SPOCK3	0.56	0.315667	0.895
STX11	0.56	0.315668	0.895
TGFBR1	0.56	0.315668	0.895
TMEM173	0.56	0.315668	0.895
TMEM215	0.56	0.315668	0.895
TRAFD1	0.56	0.315668	0.895
TST	0.56	0.34017	0.904
XPO7	0.56	0.315668	0.895
ZMPSTE24	0.56	0.315668	0.895
ZNF347	0.56	0.315668	0.895
ABCA6	0.57	0.307298	0.891
ADCK3	0.57	0.331924	0.901
AKAP6	0.57	0.331924	0.901
AKR1C1	0.57	0.35947	0.904
ANKRD18A	0.57	0.307297	0.891
APH1A	0.57	0.331924	0.901
APLP1	0.57	0.331924	0.901
ATE1	0.57	0.307297	0.891
BSX	0.57	0.331925	0.901
CD8B	0.57	0.307297	0.891
CEP164	0.57	0.331924	0.901
CHST1	0.57	0.307297	0.891
CITED4	0.57	0.307297	0.891
CLPS	0.57	0.307297	0.891
CNTNAP5	0.57	0.307297	0.891
CTGF	0.57	0.331924	0.901
DHFR	0.57	0.307298	0.891
DLX1	0.57	0.307297	0.891
DOCK1	0.57	0.307298	0.891
EHMT2	0.57	0.331924	0.901
ELOVL6	0.57	0.307297	0.891
ERH	0.57	0.307297	0.891
ERN2	0.57	0.307297	0.891

ESYT3	0.57	0.307297	0.891
EXO5	0.57	0.307297	0.891
FABP5	0.57	0.509328	0.933
FAM96A	0.57	0.307297	0.891
FANCD2	0.57	0.307297	0.891
FLOT1	0.57	0.307297	0.891
GATA4	0.57	0.307297	0.891
GBA	0.57	0.331924	0.901
GCHFR	0.57	0.307297	0.891
GTPBP6	0.57	0.307297	0.891
H1FOO	0.57	0.307297	0.891
HFE	0.57	0.307297	0.891
HIC1	0.57	0.307297	0.891
HIRA	0.57	0.35947	0.904
IFNA21	0.57	0.307298	0.891
IGFL4	0.57	0.307297	0.891
IL23R	0.57	0.307297	0.891
LAP3	0.57	0.307297	0.891
MAPK6	0.57	0.307297	0.891
MED25	0.57	0.35947	0.904
MMP27	0.57	0.307297	0.891
MOG	0.57	0.331924	0.901
MRPS27	0.57	0.331924	0.901
N4BP2	0.57	0.307297	0.891
NBPF15	0.57	0.307297	0.891
NDC1	0.57	0.307297	0.891
NLRP10	0.57	0.307297	0.891
NRP1	0.57	0.307297	0.891
NSDHL	0.57	0.307297	0.891
OR6P1	0.57	0.307297	0.891
PCDH20	0.57	0.307297	0.891
PDGFRL	0.57	0.307297	0.891
PFN3	0.57	0.307297	0.891
PLAGL1	0.57	0.331925	0.901
PLEKHO2	0.57	0.307298	0.891
POLM	0.57	0.331924	0.901
PREPL	0.57	0.307297	0.891
RAD23B	0.57	0.331924	0.901
RILP	0.57	0.331925	0.901
SGCG	0.57	0.307298	0.891
SLC36A4	0.57	0.331925	0.901
SMDT1	0.57	0.307298	0.891
SOHLH2	0.57	0.307297	0.891
SPAG17	0.57	0.307297	0.891
SRRM2	0.57	0.35947	0.904
ST14	0.57	0.307297	0.891
SUFU	0.57	0.307297	0.891

TBC1D25	0.57	0.331924	0.901
TLR1	0.57	0.307297	0.891
TNFSF14	0.57	0.307297	0.891
UBASH3B	0.57	0.307297	0.891
UBE2R2	0.57	0.307297	0.891
UGT1A5	0.57	0.307297	0.891
ULBP1	0.57	0.307297	0.891
VNN1	0.57	0.307297	0.891
WDR81	0.57	0.307297	0.891
WDR87	0.57	0.307297	0.891
ZBTB16	0.57	0.307297	0.891
ZC3H3	0.57	0.307297	0.891
ZDHHC13	0.57	0.307298	0.891
ZFP41	0.57	0.307297	0.891
ZNF99	0.57	0.307297	0.891
AIMP2	0.58	0.299105	0.886
C12orf73	0.58	0.299106	0.886
C16orf46	0.58	0.323807	0.9
C1orf185	0.58	0.299105	0.886
C5orf30	0.58	0.299105	0.886
CABIN1	0.58	0.323807	0.9
CABLES1	0.58	0.323807	0.9
CLPX	0.58	0.299105	0.886
COPE	0.58	0.456575	0.924
CTRB1	0.58	0.299106	0.886
DCAF7	0.58	0.323807	0.9
DHX9	0.58	0.299105	0.886
DIRC1	0.58	0.299105	0.886
EOMES	0.58	0.299106	0.886
EXOSC10	0.58	0.299105	0.886
FBN2	0.58	0.299106	0.886
FBXL13	0.58	0.299105	0.886
FBXO22	0.58	0.299105	0.886
FIBCD1	0.58	0.299105	0.886
FKBP14	0.58	0.299106	0.886
GANC	0.58	0.323807	0.9
GFRA4	0.58	0.299105	0.886
GOLIM4	0.58	0.299105	0.886
GPR160	0.58	0.299106	0.886
GRHL2	0.58	0.299105	0.886
HIST1H2BC	0.58	0.299105	0.886
ITGA2	0.58	0.299105	0.886
KHDC1	0.58	0.299105	0.886
KIF6	0.58	0.299106	0.886
LIX1L	0.58	0.299106	0.886
MAPK15	0.58	0.299105	0.886
MCOLN3	0.58	0.299105	0.886

MVB12B	0.58	0.299106	0.886
MYCT1	0.58	0.299105	0.886
NRXN3	0.58	0.299105	0.886
OR5K3	0.58	0.323807	0.9
PAPOLB	0.58	0.299105	0.886
PCDH10	0.58	0.323807	0.9
PCDHA10	0.58	0.299105	0.886
PCGF2	0.58	0.299106	0.886
PHF11	0.58	0.299106	0.886
PIK3CD	0.58	0.299105	0.886
PLAU	0.58	0.299105	0.886
PTRH1	0.58	0.299105	0.886
RNFT2	0.58	0.299105	0.886
RPS5	0.58	0.323807	0.9
SAT2	0.58	0.299105	0.886
SCAMP4	0.58	0.299105	0.886
SH3PXD2A	0.58	0.299105	0.886
SIAH1	0.58	0.299105	0.886
SLC17A5	0.58	0.299106	0.886
SLC2A2	0.58	0.299105	0.886
SPICE1	0.58	0.299106	0.886
SPRR2A	0.58	0.299105	0.886
SVOPL	0.58	0.299105	0.886
TAS2R16	0.58	0.299106	0.886
TCTEX1D2	0.58	0.299105	0.886
TMEFF2	0.58	0.299105	0.886
TOMM20L	0.58	0.323807	0.9
TRIM16	0.58	0.299105	0.886
TRIM31	0.58	0.299105	0.886
TRIM5	0.58	0.299105	0.886
UBE2L6	0.58	0.299106	0.886
VEPH1	0.58	0.299106	0.886
VPS28	0.58	0.351375	0.904
WFDC10A	0.58	0.299106	0.886
ZC3H7A	0.58	0.299105	0.886
ZFP90	0.58	0.299106	0.886
ZNF106	0.58	0.299106	0.886
ZNF208	0.58	0.299106	0.886
ZNF717	0.58	0.299105	0.886
ACAP3	0.59	0.291109	0.884
ANKRD11	0.59	0.291109	0.884
ARL17B	0.59	0.291109	0.884
ARL6IP5	0.59	0.291109	0.884
ASTL	0.59	0.291109	0.884
ATAD1	0.59	0.291109	0.884
BLK	0.59	0.291109	0.884
C10orf32	0.59	0.291109	0.884

C17orf100	0.59	0.343348	0.904
C1orf52	0.59	0.291109	0.884
C2CD3	0.59	0.291109	0.884
C6orf183	0.59	0.291109	0.884
C8orf22	0.59	0.291109	0.884
CAPN5	0.59	0.291109	0.884
CCDC88A	0.59	0.291109	0.884
CCL16	0.59	0.315792	0.895
CKMT1A	0.59	0.291109	0.884
CLCN2	0.59	0.291109	0.884
CLDN25	0.59	0.291109	0.884
CNTNAP4	0.59	0.291109	0.884
COL22A1	0.59	0.291109	0.884
CTNNA3	0.59	0.291109	0.884
DIMT1	0.59	0.343347	0.904
DLL4	0.59	0.291109	0.884
DND1	0.59	0.291109	0.884
DOCK6	0.59	0.315792	0.895
DOK3	0.59	0.291109	0.884
FAM3C	0.59	0.291109	0.884
FRAT2	0.59	0.291109	0.884
FSHR	0.59	0.291109	0.884
GIP	0.59	0.291109	0.884
GLYATL1	0.59	0.291109	0.884
GNG7	0.59	0.291109	0.884
GPX2	0.59	0.291109	0.884
GSDMA	0.59	0.291109	0.884
GYLTL1B	0.59	0.291109	0.884
HSD17B11	0.59	0.291109	0.884
IKBKAP	0.59	0.315793	0.895
KCNJ9	0.59	0.291109	0.884
KCTD7	0.59	0.291109	0.884
KLC1	0.59	0.291109	0.884
MEPCE	0.59	0.374028	0.908
NDST2	0.59	0.315792	0.895
NDUFB11	0.59	0.315792	0.895
NEDD4L	0.59	0.291109	0.884
NOMO2	0.59	0.291109	0.884
NUDT14	0.59	0.291109	0.884
P2RY8	0.59	0.291109	0.884
PDK4	0.59	0.291109	0.884
PIGF	0.59	0.291109	0.884
PRM3	0.59	0.343347	0.904
PTPRF	0.59	0.291109	0.884
RARB	0.59	0.291109	0.884
RASGRF1	0.59	0.291109	0.884
RFFL	0.59	0.315792	0.895

RGS21	0.59	0.291109	0.884
RPL11	0.59	0.40898	0.919
RPS6KB1	0.59	0.291109	0.884
SAMHD1	0.59	0.291109	0.884
SLC17A6	0.59	0.291109	0.884
SLC25A25	0.59	0.291109	0.884
STOM	0.59	0.291109	0.884
TFPI2	0.59	0.291109	0.884
TMEM106B	0.59	0.291109	0.884
TMEM145	0.59	0.315792	0.895
TMEM65	0.59	0.291109	0.884
TRIM77	0.59	0.291109	0.884
VBP1	0.59	0.291109	0.884
VENTX	0.59	0.291109	0.884
YIPF7	0.59	0.291109	0.884
ZNF248	0.59	0.291109	0.884
ANKRD20A4	0.6	0.283208	0.88
ANXA3	0.6	0.283207	0.88
APH1B	0.6	0.283207	0.88
ASF1A	0.6	0.283207	0.88
C1QTNF5	0.6	0.30792	0.891
C5orf55	0.6	0.283207	0.88
CCDC152	0.6	0.283208	0.88
CCL13	0.6	0.283207	0.88
CCNB1	0.6	0.283207	0.88
CD1C	0.6	0.283208	0.88
CDC20B	0.6	0.283207	0.88
CEP120	0.6	0.283208	0.88
CEP19	0.6	0.283208	0.88
CHPT1	0.6	0.30792	0.891
CHST11	0.6	0.283208	0.88
CSRNP1	0.6	0.335387	0.904
DDI2	0.6	0.283208	0.88
DDX3X	0.6	0.283207	0.88
DUOX2	0.6	0.283208	0.88
DUSP9	0.6	0.283207	0.88
FAAH2	0.6	0.283207	0.88
FAM209A	0.6	0.283207	0.88
GRB14	0.6	0.283207	0.88
GTF2B	0.6	0.335387	0.904
HIST2H2BF	0.6	0.283207	0.88
ILDR2	0.6	0.283208	0.88
INTS2	0.6	0.335386	0.904
IRGQ	0.6	0.283207	0.88
KRT16	0.6	0.283208	0.88
KRT81	0.6	0.283208	0.88
LPHN3	0.6	0.283208	0.88

LPPR3	0.6	0.283207	0.88
MATK	0.6	0.283208	0.88
MOK	0.6	0.307919	0.891
MORC1	0.6	0.283207	0.88
MRPL20	0.6	0.366235	0.905
MYH3	0.6	0.335387	0.904
NCAN	0.6	0.283208	0.88
NEGR1	0.6	0.283207	0.88
NEK5	0.6	0.283207	0.88
NOL11	0.6	0.30792	0.891
NUTM2F	0.6	0.283208	0.88
OR4Q3	0.6	0.283207	0.88
PCDH18	0.6	0.283207	0.88
PITPNA	0.6	0.283208	0.88
PIWIL2	0.6	0.283208	0.88
POLR3GL	0.6	0.283208	0.88
PPM1F	0.6	0.283208	0.88
PRR23C	0.6	0.283208	0.88
PSG4	0.6	0.283207	0.88
RAG1	0.6	0.283207	0.88
RARS2	0.6	0.283208	0.88
RNF213	0.6	0.283207	0.88
RNF6	0.6	0.283207	0.88
RPS3A	0.6	0.283207	0.88
SH3D19	0.6	0.283207	0.88
SLC35B1	0.6	0.307919	0.891
SLURP1	0.6	0.283208	0.88
STAB1	0.6	0.283208	0.88
STOML3	0.6	0.283207	0.88
TCP10	0.6	0.283208	0.88
TCP11L1	0.6	0.283207	0.88
TEFM	0.6	0.283208	0.88
TMC8	0.6	0.283208	0.88
TRAPPC9	0.6	0.283207	0.88
TULP4	0.6	0.283208	0.88
UPB1	0.6	0.283208	0.88
UPK1A	0.6	0.283207	0.88
WTH3DI	0.6	0.283207	0.88
ZNF277	0.6	0.283207	0.88
ZSWIM3	0.6	0.283207	0.88
ACY3	0.61	0.275417	0.878
AGAP1	0.61	0.275417	0.878
AOC3	0.61	0.275417	0.878
ATP6V0A1	0.61	0.275418	0.878
C20orf96	0.61	0.275417	0.878
CCL27	0.61	0.275417	0.878
CLASP1	0.61	0.275417	0.878

CLEC4C	0.61	0.275417	0.878
CYB561D1	0.61	0.275417	0.878
CYP3A4	0.61	0.275417	0.878
DDX51	0.61	0.327637	0.901
DGKE	0.61	0.275417	0.878
DUS4L	0.61	0.300139	0.887
F8	0.61	0.275418	0.878
FAM24B	0.61	0.275417	0.878
FMNL2	0.61	0.358477	0.904
HOXD3	0.61	0.275417	0.878
IMPAD1	0.61	0.275417	0.878
KCTD13	0.61	0.275417	0.878
KRT75	0.61	0.275417	0.878
LARP4	0.61	0.275417	0.878
LEPROTL1	0.61	0.275418	0.878
LEUTX	0.61	0.358476	0.904
LMO3	0.61	0.275418	0.878
MAEL	0.61	0.275417	0.878
MAP3K2	0.61	0.275418	0.878
MARCH10	0.61	0.275417	0.878
MDFIC	0.61	0.275418	0.878
MTX2	0.61	0.275417	0.878
NADK2	0.61	0.275417	0.878
NDRG3	0.61	0.275417	0.878
OR13C9	0.61	0.275417	0.878
PAM	0.61	0.275417	0.878
PARP8	0.61	0.300138	0.887
PHYHIP	0.61	0.275417	0.878
PSMD1	0.61	0.300139	0.887
RASD1	0.61	0.275418	0.878
RND3	0.61	0.275417	0.878
RRNAD1	0.61	0.275417	0.878
SH2D3A	0.61	0.275417	0.878
SIRPD	0.61	0.300139	0.887
SLC16A10	0.61	0.275417	0.878
SLC34A3	0.61	0.275418	0.878
SLC44A4	0.61	0.275417	0.878
SMPD2	0.61	0.275417	0.878
SNRNP70	0.61	0.300139	0.887
SPATA3	0.61	0.275417	0.878
STAM	0.61	0.275417	0.878
STAT3	0.61	0.275417	0.878
TLR10	0.61	0.275417	0.878
TMEM150A	0.61	0.300139	0.887
TPH2	0.61	0.300139	0.887
TRAPPC6B	0.61	0.327637	0.901
TRIM15	0.61	0.275417	0.878

TRIM58	0.61	0.275417	0.878
TSSK2	0.61	0.275418	0.878
ZBED2	0.61	0.327637	0.901
ABHD14B	0.62	0.267859	0.873
AMER2	0.62	0.267858	0.873
ANKRD32	0.62	0.267858	0.873
ARL13B	0.62	0.267858	0.873
ATP13A2	0.62	0.267859	0.873
ATRIP	0.62	0.267858	0.873
BPI	0.62	0.292507	0.884
C12orf52	0.62	0.267858	0.873
C19orf45	0.62	0.267859	0.873
C1D	0.62	0.292507	0.884
C4orf26	0.62	0.267858	0.873
CACNG3	0.62	0.292507	0.884
CCDC142	0.62	0.320043	0.9
CCDC71	0.62	0.267859	0.873
CD72	0.62	0.267858	0.873
CDH3	0.62	0.292508	0.884
CTLA4	0.62	0.267859	0.873
DACH1	0.62	0.292507	0.884
DNAJC11	0.62	0.320042	0.9
FAM149A	0.62	0.267859	0.873
FAM20A	0.62	0.292507	0.884
FAM49B	0.62	0.267858	0.873
GABRA3	0.62	0.267859	0.873
GJA4	0.62	0.292507	0.884
GLS2	0.62	0.267858	0.873
GOLGA6D	0.62	0.292507	0.884
GPR78	0.62	0.267859	0.873
GTF2H2C_2	0.62	0.267859	0.873
HAPLN3	0.62	0.267858	0.873
HRG	0.62	0.267859	0.873
INO80B	0.62	0.292507	0.884
KCNJ16	0.62	0.267858	0.873
KIAA0319	0.62	0.267858	0.873
KLHL6	0.62	0.267859	0.873
LAYN	0.62	0.267858	0.873
LIN28A	0.62	0.267859	0.873
LMBR1	0.62	0.267859	0.873
MBP	0.62	0.267859	0.873
MEA1	0.62	0.267859	0.873
MIEN1	0.62	0.267859	0.873
MRPL9	0.62	0.267859	0.873
NABP2	0.62	0.267859	0.873
NDUFA1	0.62	0.267858	0.873
NIP7	0.62	0.267858	0.873

NPC1	0.62	0.267859	0.873
NPY5R	0.62	0.267859	0.873
NUDT1	0.62	0.267859	0.873
NUP54	0.62	0.267858	0.873
OR51V1	0.62	0.267859	0.873
PLEKHA4	0.62	0.292507	0.884
PNLIP	0.62	0.267859	0.873
RBM10	0.62	0.267859	0.873
S100P	0.62	0.267858	0.873
SLAMF7	0.62	0.267859	0.873
SLC45A4	0.62	0.267858	0.873
SLC9A1	0.62	0.267859	0.873
SMIM22	0.62	0.292507	0.884
SNX5	0.62	0.292508	0.884
STMND1	0.62	0.267859	0.873
SYNE4	0.62	0.292507	0.884
TCTN2	0.62	0.267858	0.873
TOR3A	0.62	0.267858	0.873
TRIL	0.62	0.267858	0.873
TSHB	0.62	0.267859	0.873
TTC32	0.62	0.267859	0.873
UBALD1	0.62	0.267858	0.873
XPO6	0.62	0.267859	0.873
ZAK	0.62	0.267858	0.873
ZFYVE1	0.62	0.292507	0.884
ZNF641	0.62	0.292508	0.884
ADAM12	0.63	0.260413	0.87
ADAMTS4	0.63	0.260413	0.87
C1QTNF8	0.63	0.260413	0.87
C2orf57	0.63	0.260413	0.87
CAMK4	0.63	0.260413	0.87
CAPN14	0.63	0.260413	0.87
CASP8	0.63	0.260413	0.87
CCL3L1	0.63	0.260412	0.87
CKMT2	0.63	0.260413	0.87
CNGA1	0.63	0.260413	0.87
COX6A1	0.63	0.260413	0.87
CSTL1	0.63	0.260413	0.87
CUL9	0.63	0.260413	0.87
DHX58	0.63	0.260413	0.87
DIRAS1	0.63	0.260413	0.87
DMAP1	0.63	0.2851	0.884
EFCAB13	0.63	0.260412	0.87
EGLN1	0.63	0.260413	0.87
EML2	0.63	0.285099	0.884
ENKUR	0.63	0.260412	0.87
ETS1	0.63	0.260413	0.87

FMN2	0.63	0.285099	0.884
GJA8	0.63	0.260413	0.87
GLYATL2	0.63	0.260413	0.87
GPR35	0.63	0.260413	0.87
HK2	0.63	0.312477	0.895
HLA-DRA	0.63	0.260413	0.87
HOXC9	0.63	0.2851	0.884
IAPP	0.63	0.260413	0.87
IGIP	0.63	0.260413	0.87
IL1A	0.63	0.260413	0.87
KRT5	0.63	0.260412	0.87
LAMC2	0.63	0.260413	0.87
MARCH7	0.63	0.260413	0.87
MEFV	0.63	0.260412	0.87
MEIS1	0.63	0.2851	0.884
MESDC2	0.63	0.260412	0.87
MOGAT3	0.63	0.260413	0.87
MRPL35	0.63	0.260413	0.87
MRPS15	0.63	0.2851	0.884
MRPS35	0.63	0.260412	0.87
MUC2	0.63	0.312477	0.895
NCAPH	0.63	0.260413	0.87
OGFR	0.63	0.285099	0.884
OR13G1	0.63	0.260413	0.87
OR2C1	0.63	0.260413	0.87
OR52E4	0.63	0.260413	0.87
OR511	0.63	0.260413	0.87
PAX1	0.63	0.260412	0.87
PDE4A	0.63	0.260412	0.87
PET117	0.63	0.260413	0.87
PKP2	0.63	0.260413	0.87
PLA2G2A	0.63	0.260413	0.87
PLBD1	0.63	0.260413	0.87
PNRC1	0.63	0.260413	0.87
PSMD6	0.63	0.343378	0.904
PTCH1	0.63	0.2851	0.884
RAPGEFL1	0.63	0.260413	0.87
RBP5	0.63	0.260412	0.87
SCHIP1	0.63	0.260413	0.87
SLC39A10	0.63	0.260413	0.87
SLC5A9	0.63	0.260413	0.87
STARD9	0.63	0.260413	0.87
STMN3	0.63	0.285099	0.884
TGFB1	0.63	0.260413	0.87
TNFRSF12A	0.63	0.260413	0.87
TOMM20	0.63	0.260413	0.87
TRMU	0.63	0.260413	0.87

VCP	0.63	0.260413	0.87
VPS4B	0.63	0.260413	0.87
XYLB	0.63	0.260413	0.87
YWHAH	0.63	0.260413	0.87
ZFP36	0.63	0.260413	0.87
ZNF517	0.63	0.260413	0.87
ZNF675	0.63	0.343378	0.904
AADACL3	0.64	0.25315	0.868
ADAMDEC1	0.64	0.25315	0.868
ADHFE1	0.64	0.25315	0.868
AMBN	0.64	0.253149	0.868
AMN	0.64	0.253149	0.868
ANO10	0.64	0.25315	0.868
BBOX1	0.64	0.25315	0.868
C10orf95	0.64	0.25315	0.868
C9orf153	0.64	0.277763	0.88
CABP7	0.64	0.253149	0.868
CAMSAP3	0.64	0.25315	0.868
CASP3	0.64	0.25315	0.868
CCDC60	0.64	0.25315	0.868
CCDC62	0.64	0.25315	0.868
CCL3L3	0.64	0.25315	0.868
CDC42EP2	0.64	0.25315	0.868
CLVS2	0.64	0.25315	0.868
COBLL1	0.64	0.25315	0.868
DNAH10	0.64	0.305046	0.891
EIF3M	0.64	0.25315	0.868
FAM129C	0.64	0.25315	0.868
FAM154A	0.64	0.25315	0.868
FAM194B	0.64	0.305046	0.891
FAM26E	0.64	0.25315	0.868
FST	0.64	0.25315	0.868
GNRHR	0.64	0.25315	0.868
GOLGA8B	0.64	0.253149	0.868
INHBB	0.64	0.25315	0.868
JAK1	0.64	0.25315	0.868
KLHL21	0.64	0.25315	0.868
LHX8	0.64	0.25315	0.868
LPAR4	0.64	0.25315	0.868
LRIF1	0.64	0.25315	0.868
LYPD3	0.64	0.25315	0.868
MAK16	0.64	0.277763	0.88
MAPT	0.64	0.25315	0.868
MEI4	0.64	0.25315	0.868
MRE11A	0.64	0.277763	0.88
NKAIN3	0.64	0.25315	0.868
OR2AT4	0.64	0.277763	0.88

OSBPL5	0.64	0.25315	0.868
PAMR1	0.64	0.25315	0.868
PFKM	0.64	0.253149	0.868
PHF14	0.64	0.25315	0.868
PIGW	0.64	0.277763	0.88
PTGER4	0.64	0.25315	0.868
PTGFR	0.64	0.253149	0.868
RAE1	0.64	0.277763	0.88
RSPO4	0.64	0.253149	0.868
SIDT2	0.64	0.25315	0.868
SMAD4	0.64	0.25315	0.868
SMEK2	0.64	0.25315	0.868
SNX20	0.64	0.25315	0.868
SNX8	0.64	0.25315	0.868
STK4	0.64	0.25315	0.868
TIPIN	0.64	0.25315	0.868
TLR3	0.64	0.253149	0.868
TMPRSS6	0.64	0.25315	0.868
TRIP13	0.64	0.277763	0.88
TSPAN5	0.64	0.25315	0.868
UFD1L	0.64	0.277763	0.88
VMP1	0.64	0.25315	0.868
WNT1	0.64	0.277763	0.88
WNT10B	0.64	0.25315	0.868
ZNF177	0.64	0.25315	0.868
ZNF667	0.64	0.25315	0.868
ACTR2	0.65	0.270513	0.875
ACTR8	0.65	0.297757	0.886
ACTRT1	0.65	0.246043	0.863
BAHD1	0.65	0.246043	0.863
BECN1	0.65	0.246043	0.863
C7orf60	0.65	0.246043	0.863
CBR3	0.65	0.246043	0.863
CD3E	0.65	0.246043	0.863
CD70	0.65	0.246043	0.863
CDKN3	0.65	0.246043	0.863
CDON	0.65	0.246043	0.863
DSC3	0.65	0.246043	0.863
ERO1LB	0.65	0.270513	0.875
F11	0.65	0.246043	0.863
FABP1	0.65	0.246043	0.863
FAM131A	0.65	0.246043	0.863
FAM83D	0.65	0.270513	0.875
FOXI3	0.65	0.246043	0.863
GABRR1	0.65	0.246043	0.863
GPX3	0.65	0.246043	0.863
IDH3A	0.65	0.246043	0.863

IFNA14	0.65	0.270513	0.875
IL8	0.65	0.246043	0.863
LAMA2	0.65	0.246043	0.863
LCOR	0.65	0.246043	0.863
LOC100287C	0.65	0.246043	0.863
LPL	0.65	0.246043	0.863
MAGEA6	0.65	0.246043	0.863
MAGI2	0.65	0.270512	0.875
MAP2K4	0.65	0.246043	0.863
MED24	0.65	0.246043	0.863
MFSD6	0.65	0.270513	0.875
MIPOL1	0.65	0.246043	0.863
MORF4L1	0.65	0.246043	0.863
MPHOSPH1	0.65	0.270513	0.875
MPI	0.65	0.246043	0.863
MRGPRG	0.65	0.246043	0.863
MRP63	0.65	0.297757	0.886
MRPS18B	0.65	0.270513	0.875
NCAPD2	0.65	0.270513	0.875
NLRP9	0.65	0.246043	0.863
NRIP1	0.65	0.246043	0.863
NRP2	0.65	0.246043	0.863
NTN3	0.65	0.246043	0.863
ODF3	0.65	0.246043	0.863
OR4P4	0.65	0.246043	0.863
OR5H14	0.65	0.246043	0.863
P2RY13	0.65	0.246043	0.863
PADI1	0.65	0.246043	0.863
PDZD8	0.65	0.246043	0.863
PHF16	0.65	0.270512	0.875
PIGG	0.65	0.270513	0.875
PPME1	0.65	0.270513	0.875
PPP1R12C	0.65	0.246043	0.863
RAB14	0.65	0.246043	0.863
RAB2B	0.65	0.246043	0.863
RBFOX2	0.65	0.246043	0.863
SEZ6L2	0.65	0.246043	0.863
SH3GLB1	0.65	0.246043	0.863
SLC35B3	0.65	0.246043	0.863
SLC9A2	0.65	0.246043	0.863
SPATS2	0.65	0.297757	0.886
SPTY2D1	0.65	0.246043	0.863
ST6GALNAC	0.65	0.270512	0.875
TG	0.65	0.246043	0.863
TIMM8A	0.65	0.270513	0.875
TRIM27	0.65	0.246043	0.863
TRMT6	0.65	0.246043	0.863

TUBA1A	0.65	0.297757	0.886
VSX1	0.65	0.270513	0.875
WBP5	0.65	0.270512	0.875
ZNF551	0.65	0.246043	0.863
ZNF680	0.65	0.270513	0.875
AKR1C2	0.66	0.263421	0.873
ANKS4B	0.66	0.239085	0.859
ANXA1	0.66	0.239085	0.859
BTG2	0.66	0.239085	0.859
C1QTNF1	0.66	0.26342	0.873
C20orf201	0.66	0.239085	0.859
C21orf140	0.66	0.26342	0.873
C7orf55	0.66	0.239085	0.859
CCNF	0.66	0.26342	0.873
CCR6	0.66	0.239085	0.859
CHD4	0.66	0.263421	0.873
CHRNA5	0.66	0.239086	0.859
CLEC1A	0.66	0.239085	0.859
COL28A1	0.66	0.263421	0.873
CPNE2	0.66	0.239085	0.859
CRLF3	0.66	0.239085	0.859
CYP3A43	0.66	0.239086	0.859
DDX18	0.66	0.26342	0.873
DUOX1	0.66	0.239086	0.859
EIF3E	0.66	0.26342	0.873
FAM26F	0.66	0.239086	0.859
FAM76A	0.66	0.239085	0.859
FGF18	0.66	0.239086	0.859
GAR1	0.66	0.263421	0.873
GRM2	0.66	0.239085	0.859
ITFG3	0.66	0.239086	0.859
JAKMIP1	0.66	0.239086	0.859
KDELR3	0.66	0.239085	0.859
KIAA2013	0.66	0.239085	0.859
KLK2	0.66	0.239086	0.859
KRTAP9-1	0.66	0.239086	0.859
LOC1005056	0.66	0.446731	0.924
LURAP1L	0.66	0.263421	0.873
LYPLA1	0.66	0.239085	0.859
LYSMD2	0.66	0.239085	0.859
MAP3K13	0.66	0.239085	0.859
MSH5	0.66	0.26342	0.873
MYF6	0.66	0.239085	0.859
NECAP2	0.66	0.239085	0.859
NMB	0.66	0.239085	0.859
OR2V1	0.66	0.239085	0.859
PSMD12	0.66	0.321561	0.9

PTPRB	0.66	0.239085	0.859
RBP7	0.66	0.239086	0.859
RERE	0.66	0.263421	0.873
RILPL2	0.66	0.290615	0.884
RYR3	0.66	0.263421	0.873
SELE	0.66	0.239085	0.859
SERPINA1	0.66	0.239085	0.859
SLC25A12	0.66	0.239086	0.859
SLC25A34	0.66	0.239085	0.859
SLC25A40	0.66	0.239086	0.859
SLTM	0.66	0.239086	0.859
SPHK1	0.66	0.239085	0.859
SRSF3	0.66	0.239085	0.859
SULT1C4	0.66	0.239085	0.859
TAF3	0.66	0.290615	0.884
TLE1	0.66	0.239085	0.859
TMX2	0.66	0.239085	0.859
TOR1B	0.66	0.239085	0.859
TPSG1	0.66	0.239086	0.859
TRMT61A	0.66	0.290614	0.884
TTC39C	0.66	0.26342	0.873
TWISTNB	0.66	0.239085	0.859
UNC79	0.66	0.290615	0.884
UQCC1	0.66	0.26342	0.873
VCX3B	0.66	0.239086	0.859
ZFHX4	0.66	0.239085	0.859
ZFYVE20	0.66	0.26342	0.873
ZNF287	0.66	0.239085	0.859
ZNF654	0.66	0.239086	0.859
ALDH2	0.67	0.232222	0.854
AMMECR1L	0.67	0.232222	0.854
ANKRD62	0.67	0.232222	0.854
ARL4C	0.67	0.232222	0.854
ARR3	0.67	0.232222	0.854
ASCL3	0.67	0.232222	0.854
ASIC4	0.67	0.232222	0.854
C15orf38	0.67	0.232222	0.854
C8orf4	0.67	0.232222	0.854
CASQ1	0.67	0.232222	0.854
CPLX3	0.67	0.256435	0.87
DESI2	0.67	0.232222	0.854
DNAJB4	0.67	0.232222	0.854
FAM167A	0.67	0.232222	0.854
FAM47E	0.67	0.232222	0.854
G6PC	0.67	0.232222	0.854
GH1	0.67	0.232222	0.854
GSPT1	0.67	0.256435	0.87

HIST1H2BK	0.67	0.232222	0.854
HMGXB3	0.67	0.232222	0.854
ILF2	0.67	0.232222	0.854
IP6K2	0.67	0.256435	0.87
KIR3DL2	0.67	0.232222	0.854
KRTAP10-1	0.67	0.232222	0.854
LAMP1	0.67	0.232222	0.854
MANBAL	0.67	0.232222	0.854
MANSC1	0.67	0.232222	0.854
MAP1LC3B2	0.67	0.232222	0.854
MIER1	0.67	0.232222	0.854
MOGAT1	0.67	0.232222	0.854
MRPS24	0.67	0.256435	0.87
MSL1	0.67	0.256435	0.87
MT1H	0.67	0.350127	0.904
NELFA	0.67	0.256435	0.87
NKTR	0.67	0.256435	0.87
OBP2B	0.67	0.232222	0.854
OR52N1	0.67	0.232222	0.854
ORAI3	0.67	0.232222	0.854
OSTN	0.67	0.232222	0.854
PCOLCE2	0.67	0.256435	0.87
PIGC	0.67	0.232222	0.854
PIGT	0.67	0.232222	0.854
PROM1	0.67	0.232222	0.854
PTPRA	0.67	0.232222	0.854
PTPRN	0.67	0.232222	0.854
PTPRZ1	0.67	0.232222	0.854
RASGRP3	0.67	0.232222	0.854
REPS2	0.67	0.232222	0.854
S100A5	0.67	0.232222	0.854
SCD	0.67	0.232222	0.854
SERAC1	0.67	0.256435	0.87
SLC13A5	0.67	0.232222	0.854
SLC16A7	0.67	0.232222	0.854
SMIM6	0.67	0.232222	0.854
SULT1B1	0.67	0.232222	0.854
SYCP2L	0.67	0.232222	0.854
SYNRG	0.67	0.232222	0.854
TEDDM1	0.67	0.256435	0.87
TMEM240	0.67	0.232222	0.854
TTC5	0.67	0.232222	0.854
TXNDC2	0.67	0.256435	0.87
ZDHHC14	0.67	0.232222	0.854
AKAP7	0.68	0.225496	0.849
ALKBH2	0.68	0.225496	0.849
AP5Z1	0.68	0.225496	0.849

B4GALT4	0.68	0.225496	0.849
BCL2L11	0.68	0.225496	0.849
C18orf21	0.68	0.225496	0.849
C3orf55	0.68	0.225497	0.849
CBX2	0.68	0.225496	0.849
CLIC1	0.68	0.225496	0.849
CRAMP1L	0.68	0.225496	0.849
CST6	0.68	0.225496	0.849
CSTF2T	0.68	0.225496	0.849
CYB5B	0.68	0.225496	0.849
ELMOD3	0.68	0.225496	0.849
ERAL1	0.68	0.249616	0.868
FAM132B	0.68	0.225496	0.849
FCHSD1	0.68	0.225496	0.849
GAB3	0.68	0.225496	0.849
GABPB1	0.68	0.225496	0.849
GAL3ST2	0.68	0.225496	0.849
GLO1	0.68	0.225496	0.849
GOLGA8O	0.68	0.225496	0.849
GPR63	0.68	0.225496	0.849
GUF1	0.68	0.225496	0.849
HIST1H2BJ	0.68	0.249616	0.868
HSD3B1	0.68	0.225496	0.849
IRX1	0.68	0.225497	0.849
KLK9	0.68	0.225496	0.849
KRTAP19-6	0.68	0.225497	0.849
KRTAP4-8	0.68	0.276574	0.88
LEMD3	0.68	0.249616	0.868
LETMD1	0.68	0.225496	0.849
LMNB1	0.68	0.225496	0.849
LOC1001328	0.68	0.225496	0.849
MESP1	0.68	0.225496	0.849
MMP1	0.68	0.225496	0.849
MRPL37	0.68	0.225497	0.849
MRPL49	0.68	0.249617	0.868
MRPS14	0.68	0.225497	0.849
NKRF	0.68	0.225496	0.849
NLRP13	0.68	0.225496	0.849
OPN1LW	0.68	0.225496	0.849
OR13C5	0.68	0.225496	0.849
OTOA	0.68	0.225496	0.849
PDE1B	0.68	0.225496	0.849
PDE8B	0.68	0.249617	0.868
PI4K2B	0.68	0.225496	0.849
PITPNM1	0.68	0.225496	0.849
PLEKHG2	0.68	0.225496	0.849
POLR2J2	0.68	0.433381	0.924

PPP1R16A	0.68	0.225496	0.849
PPP2R1A	0.68	0.225496	0.849
PRPF18	0.68	0.276575	0.88
PRSS56	0.68	0.225496	0.849
ROMO1	0.68	0.225496	0.849
SCAF1	0.68	0.384992	0.908
SCPEP1	0.68	0.225496	0.849
SENP1	0.68	0.249616	0.868
SFXN2	0.68	0.225496	0.849
SIGLEC8	0.68	0.249616	0.868
SIRT1	0.68	0.225496	0.849
SKIL	0.68	0.225496	0.849
SLC25A24	0.68	0.249616	0.868
SORCS1	0.68	0.225496	0.849
SPACA1	0.68	0.225496	0.849
STX8	0.68	0.276574	0.88
SYNCRIP	0.68	0.276575	0.88
TAS2R3	0.68	0.225496	0.849
TCF24	0.68	0.225496	0.849
TMEM102	0.68	0.225496	0.849
TMEM106C	0.68	0.225497	0.849
WDTC1	0.68	0.225496	0.849
ZNF580	0.68	0.307576	0.891
ZNF700	0.68	0.225496	0.849
AARD	0.69	0.21898	0.848
ACKR4	0.69	0.21898	0.848
AGXT	0.69	0.242921	0.863
ASAP2	0.69	0.21898	0.848
ATG16L2	0.69	0.21898	0.848
BHLHE23	0.69	0.21898	0.848
BTN3A2	0.69	0.21898	0.848
C12orf40	0.69	0.21898	0.848
CABLES2	0.69	0.21898	0.848
CACNA1A	0.69	0.242921	0.863
CD44	0.69	0.218979	0.848
CDCA2	0.69	0.21898	0.848
CEP192	0.69	0.24292	0.863
CHAF1A	0.69	0.269827	0.875
CPOX	0.69	0.218979	0.848
DIAPH2	0.69	0.21898	0.848
ENOPH1	0.69	0.21898	0.848
EVPL	0.69	0.24292	0.863
EXOC6	0.69	0.21898	0.848
F11R	0.69	0.21898	0.848
FAM98B	0.69	0.21898	0.848
FAXC	0.69	0.21898	0.848
FBXO2	0.69	0.21898	0.848

GALNT13	0.69	0.21898	0.848
HAVCR1	0.69	0.218979	0.848
HELT	0.69	0.242921	0.863
HMGN4	0.69	0.21898	0.848
HSF4	0.69	0.21898	0.848
IGFBP3	0.69	0.21898	0.848
IRF1	0.69	0.21898	0.848
KARS	0.69	0.242921	0.863
KCNJ12	0.69	0.24292	0.863
KRTAP6-2	0.69	0.21898	0.848
MDGA1	0.69	0.218979	0.848
MED10	0.69	0.21898	0.848
MS4A6E	0.69	0.21898	0.848
MYADM	0.69	0.242921	0.863
MYO1E	0.69	0.21898	0.848
NAGS	0.69	0.21898	0.848
NXPH2	0.69	0.21898	0.848
OPA1	0.69	0.21898	0.848
OR10A2	0.69	0.218979	0.848
OR10A3	0.69	0.21898	0.848
OR10V1	0.69	0.21898	0.848
OSR1	0.69	0.21898	0.848
PARP16	0.69	0.24292	0.863
PGLYRP4	0.69	0.218979	0.848
PIEZO1	0.69	0.21898	0.848
PLEKHG1	0.69	0.21898	0.848
PRRG1	0.69	0.218979	0.848
PXDN	0.69	0.21898	0.848
RBM4	0.69	0.21898	0.848
RORC	0.69	0.21898	0.848
RPS12	0.69	0.269827	0.875
RPS16	0.69	0.269827	0.875
SCGB3A2	0.69	0.21898	0.848
SF3A1	0.69	0.300689	0.889
SLC5A7	0.69	0.21898	0.848
SNAI2	0.69	0.242921	0.863
STAMBP	0.69	0.21898	0.848
TMEM179B	0.69	0.218979	0.848
TMEM189-U	0.69	0.21898	0.848
TRIM40	0.69	0.21898	0.848
TSNAXIP1	0.69	0.21898	0.848
TTC21B	0.69	0.21898	0.848
TYRP1	0.69	0.21898	0.848
ZBTB47	0.69	0.269827	0.875
ZIC4	0.69	0.21898	0.848
ZNF559-ZNF	0.69	0.218979	0.848
ANKIB1	0.7	0.212514	0.846

APCS	0.7	0.212514	0.846
ARHGAP21	0.7	0.212514	0.846
BMP10	0.7	0.212514	0.846
C19orf81	0.7	0.212513	0.846
C1orf109	0.7	0.263098	0.873
CCAR1	0.7	0.236326	0.859
CLIP4	0.7	0.212513	0.846
CMC1	0.7	0.236325	0.859
CNIH3	0.7	0.212514	0.846
CSN1S1	0.7	0.212513	0.846
DDX17	0.7	0.212514	0.846
DLGAP5	0.7	0.212514	0.846
DNAJB9	0.7	0.212513	0.846
EBNA1BP2	0.7	0.236326	0.859
EEF1G	0.7	0.212514	0.846
EFNA2	0.7	0.212513	0.846
FLRT1	0.7	0.212514	0.846
GPBP1	0.7	0.212514	0.846
GPC6	0.7	0.212513	0.846
GPSM2	0.7	0.212514	0.846
GTPBP3	0.7	0.212513	0.846
IL36G	0.7	0.212513	0.846
KCNB1	0.7	0.236325	0.859
KIAA2022	0.7	0.236326	0.859
KRTAP10-5	0.7	0.212514	0.846
MAPKAP1	0.7	0.212514	0.846
MOV10L1	0.7	0.212513	0.846
NKX3-2	0.7	0.212514	0.846
NPFFR1	0.7	0.212513	0.846
NUPR2	0.7	0.212514	0.846
OR56A4	0.7	0.212514	0.846
PATE4	0.7	0.212514	0.846
PCDHB12	0.7	0.212513	0.846
PDXDC1	0.7	0.212514	0.846
PF4	0.7	0.212514	0.846
PIFO	0.7	0.212514	0.846
PMP22	0.7	0.236325	0.859
PPIH	0.7	0.212513	0.846
PRKAB1	0.7	0.236326	0.859
PWWP2B	0.7	0.212513	0.846
RAB8A	0.7	0.212514	0.846
RBPMS	0.7	0.212514	0.846
RD3	0.7	0.212513	0.846
RPP40	0.7	0.212514	0.846
SCN8A	0.7	0.212514	0.846
SFXN1	0.7	0.212514	0.846
SLC17A7	0.7	0.212514	0.846

SLC4A8	0.7	0.212514	0.846
SLCO4A1	0.7	0.212514	0.846
SRCRB4D	0.7	0.236326	0.859
SSNA1	0.7	0.236325	0.859
ST6GALNAC	0.7	0.212514	0.846
SUCLG2	0.7	0.212514	0.846
TAF10	0.7	0.212514	0.846
TBCK	0.7	0.212513	0.846
TLE6	0.7	0.212513	0.846
TMEM248	0.7	0.212514	0.846
TPSD1	0.7	0.212513	0.846
TXLNG	0.7	0.212513	0.846
USP18	0.7	0.212514	0.846
WDR5	0.7	0.329607	0.901
WNT7A	0.7	0.212513	0.846
ZAP70	0.7	0.212513	0.846
ZNF280B	0.7	0.212513	0.846
ZNF549	0.7	0.212514	0.846
ZNF630	0.7	0.212513	0.846
ZNF841	0.7	0.212513	0.846
ZSCAN20	0.7	0.236326	0.859
APOC1	0.71	0.206238	0.845
ASNSD1	0.71	0.206238	0.845
BRSK2	0.71	0.206239	0.845
C3AR1	0.71	0.206238	0.845
C5orf28	0.71	0.229797	0.854
C9orf78	0.71	0.206239	0.845
CABP2	0.71	0.206238	0.845
CASC5	0.71	0.206239	0.845
CD59	0.71	0.206238	0.845
CERS2	0.71	0.206238	0.845
CHRN3	0.71	0.206238	0.845
CLK1	0.71	0.206238	0.845
CLUL1	0.71	0.206238	0.845
CNIH4	0.71	0.206238	0.845
DRD3	0.71	0.206238	0.845
ECH1	0.71	0.206238	0.845
EED	0.71	0.206238	0.845
FGL2	0.71	0.206239	0.845
GOPC	0.71	0.206238	0.845
HUWE1	0.71	0.206238	0.845
KCNJ1	0.71	0.206239	0.845
LATS1	0.71	0.206238	0.845
LRIT2	0.71	0.206239	0.845
MPHOSPH9	0.71	0.206239	0.845
MTERFD1	0.71	0.206239	0.845
MTFP1	0.71	0.206239	0.845

NANOG	0.71	0.206239	0.845
OR12D2	0.71	0.206239	0.845
PI4K2A	0.71	0.206238	0.845
PPP1R32	0.71	0.206239	0.845
PTCHD2	0.71	0.229797	0.854
RBMY1E	0.71	0.206239	0.845
RGL4	0.71	0.206238	0.845
RGS7	0.71	0.206239	0.845
SAMD1	0.71	0.229797	0.854
SMAD9	0.71	0.229797	0.854
SPACA7	0.71	0.206238	0.845
STARD5	0.71	0.206238	0.845
TMEM44	0.71	0.229796	0.854
TMEM99	0.71	0.206239	0.845
UTP6	0.71	0.229796	0.854
WDR27	0.71	0.206239	0.845
ZFYVE19	0.71	0.206238	0.845
ZNF264	0.71	0.206238	0.845
ZNF691	0.71	0.206239	0.845
A2ML1	0.72	0.223557	0.849
AIFM1	0.72	0.200074	0.838
AP5S1	0.72	0.200074	0.838
APAF1	0.72	0.200074	0.838
ASB15	0.72	0.223557	0.849
ATP8B1	0.72	0.200074	0.838
C15orf60	0.72	0.200074	0.838
C4orf40	0.72	0.200074	0.838
C6orf222	0.72	0.200074	0.838
CCNG2	0.72	0.200074	0.838
CENPJ	0.72	0.200074	0.838
CENPO	0.72	0.200074	0.838
CERCAM	0.72	0.200074	0.838
CISH	0.72	0.200074	0.838
DEFB126	0.72	0.223557	0.849
DGKB	0.72	0.200074	0.838
DNAJC27	0.72	0.223557	0.849
DTNB	0.72	0.200074	0.838
DUSP10	0.72	0.223557	0.849
ENOSF1	0.72	0.200074	0.838
FAM174B	0.72	0.200074	0.838
FAM71F2	0.72	0.200074	0.838
FHL2	0.72	0.200074	0.838
FTL	0.72	0.200074	0.838
GAS2L3	0.72	0.200074	0.838
GLI4	0.72	0.200074	0.838
HOOK2	0.72	0.200074	0.838
HTRA3	0.72	0.200074	0.838

IFFO2	0.72	0.200074	0.838
IGFL2	0.72	0.200074	0.838
INTS4	0.72	0.200074	0.838
KHDRBS1	0.72	0.200074	0.838
KRI1	0.72	0.358439	0.904
LRRC42	0.72	0.200074	0.838
LYRM1	0.72	0.200074	0.838
MEIG1	0.72	0.316411	0.897
MRGBP	0.72	0.200074	0.838
MRPS25	0.72	0.200074	0.838
MRPS30	0.72	0.200074	0.838
NDUFV2	0.72	0.200074	0.838
NMNAT2	0.72	0.200074	0.838
ONECUT1	0.72	0.200074	0.838
OR4K1	0.72	0.200074	0.838
OR5H1	0.72	0.200074	0.838
PCNXL2	0.72	0.250106	0.868
PRAMEF9	0.72	0.200074	0.838
PSMB4	0.72	0.223557	0.849
PTGER3	0.72	0.200074	0.838
PTPN11	0.72	0.223557	0.849
RPUSD1	0.72	0.200074	0.838
SFXN4	0.72	0.200074	0.838
SLC22A25	0.72	0.200074	0.838
SLC44A1	0.72	0.200074	0.838
SRSF8	0.72	0.280799	0.88
SUB1	0.72	0.250106	0.868
SUZ12	0.72	0.200074	0.838
TAPT1	0.72	0.200074	0.838
TC2N	0.72	0.200074	0.838
THBS1	0.72	0.200074	0.838
TIMM9	0.72	0.280798	0.88
UNC45B	0.72	0.223557	0.849
USP24	0.72	0.200074	0.838
YY1AP1	0.72	0.200074	0.838
ZBTB42	0.72	0.200074	0.838
ZBTB43	0.72	0.200074	0.838
ZC2HC1C	0.72	0.200074	0.838
ZMIZ2	0.72	0.200074	0.838
AKAP8L	0.73	0.19403	0.837
ARRDC2	0.73	0.19403	0.837
BIRC6	0.73	0.19403	0.837
C14orf79	0.73	0.194029	0.837
C17orf77	0.73	0.19403	0.837
C6orf106	0.73	0.194029	0.837
CEACAM5	0.73	0.194029	0.837
CHRD1	0.73	0.194029	0.837

CXCL14	0.73	0.217335	0.848
CYP46A1	0.73	0.194029	0.837
ECE2	0.73	0.217335	0.848
ELOVL5	0.73	0.194029	0.837
ELP4	0.73	0.19403	0.837
ERMN	0.73	0.19403	0.837
ERVW-1	0.73	0.194029	0.837
FAM105A	0.73	0.217335	0.848
FNBP1L	0.73	0.194029	0.837
HLA-A	0.73	0.194029	0.837
HNRNPK	0.73	0.217335	0.848
HTR4	0.73	0.19403	0.837
ITGB6	0.73	0.194029	0.837
KDM4A	0.73	0.194029	0.837
MRGPRX3	0.73	0.19403	0.837
MSMB	0.73	0.194029	0.837
MYBL1	0.73	0.194029	0.837
NHP2	0.73	0.19403	0.837
OPN4	0.73	0.217335	0.848
OR2J3	0.73	0.194029	0.837
OR2T33	0.73	0.19403	0.837
PRG3	0.73	0.194029	0.837
PYDC1	0.73	0.19403	0.837
RBFOX3	0.73	0.194029	0.837
RBPMS2	0.73	0.194029	0.837
REV1	0.73	0.19403	0.837
RFPL4B	0.73	0.243755	0.863
RNF133	0.73	0.19403	0.837
RPRD1A	0.73	0.194029	0.837
RPSA	0.73	0.352004	0.904
SAMD3	0.73	0.19403	0.837
SFSWAP	0.73	0.217335	0.848
SPATA1	0.73	0.19403	0.837
STX10	0.73	0.194029	0.837
TIMD4	0.73	0.194029	0.837
TMEM225	0.73	0.194029	0.837
TMEM245	0.73	0.194029	0.837
TMEM62	0.73	0.194029	0.837
TNFRSF10D	0.73	0.19403	0.837
TRIM29	0.73	0.194029	0.837
UBA1	0.73	0.243756	0.863
ZC3H7B	0.73	0.217335	0.848
ZNF263	0.73	0.217334	0.848
ZNF430	0.73	0.19403	0.837
ACOT2	0.74	0.18817	0.833
AKIP1	0.74	0.211254	0.846
APOBEC3C	0.74	0.18817	0.833

ATP2A3	0.74	0.18817	0.833
ATXN3	0.74	0.18817	0.833
BCL7A	0.74	0.211254	0.846
C19orf38	0.74	0.18817	0.833
CA5A	0.74	0.18817	0.833
CCDC111	0.74	0.18817	0.833
CCKAR	0.74	0.18817	0.833
CDC25B	0.74	0.18817	0.833
CEBPG	0.74	0.18817	0.833
CILP	0.74	0.18817	0.833
CLUAP1	0.74	0.18817	0.833
CPLX4	0.74	0.18817	0.833
E4F1	0.74	0.237529	0.859
FANCG	0.74	0.211255	0.846
FZD2	0.74	0.18817	0.833
GABBR1	0.74	0.18817	0.833
GMEB2	0.74	0.18817	0.833
HSPA8	0.74	0.211255	0.846
IAH1	0.74	0.18817	0.833
IFT52	0.74	0.18817	0.833
IGSF22	0.74	0.18817	0.833
INPP5A	0.74	0.18817	0.833
INTS1	0.74	0.237529	0.859
ISG15	0.74	0.18817	0.833
KDM5C	0.74	0.18817	0.833
MALT1	0.74	0.18817	0.833
MARCH4	0.74	0.211255	0.846
MEF2BNB	0.74	0.18817	0.833
MT1X	0.74	0.18817	0.833
MTG1	0.74	0.211255	0.846
NELL2	0.74	0.211255	0.846
NREP	0.74	0.18817	0.833
OCIAD2	0.74	0.18817	0.833
OR2F2	0.74	0.18817	0.833
PKIA	0.74	0.18817	0.833
PNMA6C	0.74	0.18817	0.833
RIC8B	0.74	0.18817	0.833
RPL35	0.74	0.18817	0.833
SCNN1D	0.74	0.18817	0.833
SLC20A1	0.74	0.211254	0.846
SLC25A35	0.74	0.18817	0.833
SLC7A9	0.74	0.18817	0.833
STK38	0.74	0.18817	0.833
TBC1D5	0.74	0.18817	0.833
TNFAIP8L2	0.74	0.18817	0.833
TPSB2	0.74	0.268046	0.873
ZNF426	0.74	0.211255	0.846

ABI3	0.75	0.182452	0.827
AGT	0.75	0.182451	0.827
ANKRD23	0.75	0.182452	0.827
ATG4C	0.75	0.205365	0.845
BBS5	0.75	0.182452	0.827
C10orf54	0.75	0.182452	0.827
C10orf62	0.75	0.182451	0.827
C1orf192	0.75	0.182451	0.827
CA5B	0.75	0.182452	0.827
CABYR	0.75	0.182452	0.827
CAMK1D	0.75	0.182452	0.827
CCDC126	0.75	0.182452	0.827
CDC14A	0.75	0.182452	0.827
CDC14B	0.75	0.182451	0.827
CETP	0.75	0.182452	0.827
CLCN1	0.75	0.182452	0.827
CSMD1	0.75	0.182452	0.827
CSNK1G1	0.75	0.182452	0.827
DENND5B	0.75	0.182452	0.827
ELL3	0.75	0.182451	0.827
FANCF	0.75	0.182452	0.827
FDXR	0.75	0.182452	0.827
FIGLA	0.75	0.182452	0.827
FMR1	0.75	0.205364	0.845
FNIP2	0.75	0.182452	0.827
GDE1	0.75	0.231459	0.854
GJB2	0.75	0.182452	0.827
GTF2F1	0.75	0.205364	0.845
HAMP	0.75	0.205364	0.845
HLF	0.75	0.182452	0.827
KCNC3	0.75	0.182452	0.827
KCNH2	0.75	0.182451	0.827
KRTAP5-4	0.75	0.231459	0.854
MUL1	0.75	0.205364	0.845
NMI	0.75	0.205364	0.845
OR4D10	0.75	0.182451	0.827
PAQR6	0.75	0.205364	0.845
RABGEF1	0.75	0.205364	0.845
RAP1GDS1	0.75	0.182451	0.827
RNASE3	0.75	0.182451	0.827
SAFB	0.75	0.182452	0.827
SCAMP2	0.75	0.182451	0.827
SPRYD4	0.75	0.182452	0.827
SRP54	0.75	0.205364	0.845
SUCLG1	0.75	0.182451	0.827
TAS2R5	0.75	0.231459	0.854
TBRG1	0.75	0.182451	0.827

TGFBRAP1	0.75	0.205364	0.845
ADPRHL2	0.76	0.176848	0.818
ADRA1D	0.76	0.176848	0.818
AXIN1	0.76	0.199564	0.838
C17orf75	0.76	0.176847	0.818
C19orf82	0.76	0.199564	0.838
C3orf33	0.76	0.176847	0.818
CARS2	0.76	0.176848	0.818
CCDC150	0.76	0.176848	0.818
CCDC17	0.76	0.176848	0.818
CLDN11	0.76	0.176848	0.818
CLEC4D	0.76	0.176848	0.818
CNPY3	0.76	0.176848	0.818
COPS3	0.76	0.176848	0.818
CRYBG3	0.76	0.176848	0.818
CSF2	0.76	0.176848	0.818
CTRC	0.76	0.176848	0.818
CYP4A11	0.76	0.176848	0.818
FAM134C	0.76	0.176848	0.818
GCM1	0.76	0.176847	0.818
GSTO2	0.76	0.176848	0.818
INSIG2	0.76	0.176848	0.818
ITGAL	0.76	0.176848	0.818
KRT32	0.76	0.176848	0.818
LYSMD4	0.76	0.176848	0.818
MTRNR2L8	0.76	0.225498	0.849
MUC22	0.76	0.176848	0.818
NAA50	0.76	0.176848	0.818
NARS2	0.76	0.176847	0.818
NDUFB8	0.76	0.199564	0.838
OR4A5	0.76	0.176848	0.818
PDCL3	0.76	0.176847	0.818
PLEKHA8	0.76	0.176848	0.818
POLG	0.76	0.176847	0.818
PPP1R11	0.76	0.199563	0.838
RIMBP2	0.76	0.199564	0.838
SERPINB9	0.76	0.176848	0.818
SGCA	0.76	0.176847	0.818
SLC16A1	0.76	0.199564	0.838
SMG9	0.76	0.199563	0.838
SNORD95	0.76	0.176848	0.818
SUN5	0.76	0.176847	0.818
TICRR	0.76	0.199563	0.838
TRIP10	0.76	0.199563	0.838
TSPY1	0.76	0.176847	0.818
VPS35	0.76	0.176847	0.818
ZKSCAN4	0.76	0.176848	0.818

ZNF250	0.76	0.176848	0.818
ZNF503	0.76	0.176848	0.818
ZNF510	0.76	0.176848	0.818
ZNF701	0.76	0.176848	0.818
AGRP	0.77	0.17138	0.812
AIMP1	0.77	0.171381	0.812
AK4	0.77	0.171381	0.812
ANGPTL4	0.77	0.171381	0.812
ANKFY1	0.77	0.17138	0.812
APOH	0.77	0.17138	0.812
ARGFX	0.77	0.171381	0.812
ARL8B	0.77	0.171381	0.812
BST1	0.77	0.171381	0.812
C11orf82	0.77	0.171381	0.812
C11orf91	0.77	0.171381	0.812
C1orf64	0.77	0.171381	0.812
CASP7	0.77	0.193975	0.837
COMMD1	0.77	0.171381	0.812
CORO6	0.77	0.17138	0.812
DNAJB14	0.77	0.171381	0.812
DPP6	0.77	0.171381	0.812
EFHB	0.77	0.171381	0.812
EFNB3	0.77	0.193975	0.837
EI24	0.77	0.219646	0.849
EPAS1	0.77	0.193974	0.837
EPN3	0.77	0.193974	0.837
EVL	0.77	0.171381	0.812
FER	0.77	0.171381	0.812
FER1L5	0.77	0.171381	0.812
FLYWCH1	0.77	0.17138	0.812
FUK	0.77	0.171381	0.812
GAB4	0.77	0.171381	0.812
HAGH	0.77	0.17138	0.812
HEATR1	0.77	0.193974	0.837
HSD17B7	0.77	0.171381	0.812
IFNL3	0.77	0.171381	0.812
IL13RA2	0.77	0.17138	0.812
IL27	0.77	0.171381	0.812
MED17	0.77	0.193974	0.837
MED27	0.77	0.171381	0.812
MT1M	0.77	0.171381	0.812
NEDD4	0.77	0.171381	0.812
NEK6	0.77	0.193974	0.837
NF2	0.77	0.171381	0.812
NLK	0.77	0.219646	0.849
NNMT	0.77	0.171381	0.812
OR5J2	0.77	0.171381	0.812

OR6C4	0.77	0.171381	0.812
OR8G5	0.77	0.171381	0.812
P2RY1	0.77	0.171381	0.812
PEX11A	0.77	0.171381	0.812
PRNP	0.77	0.171381	0.812
PRR12	0.77	0.17138	0.812
PSMC4	0.77	0.193974	0.837
QPCTL	0.77	0.17138	0.812
RBM1B	0.77	0.17138	0.812
SEL1L	0.77	0.219646	0.849
SIGLEC6	0.77	0.17138	0.812
SP2	0.77	0.171381	0.812
SPATA4	0.77	0.171381	0.812
SUN1	0.77	0.17138	0.812
TANC1	0.77	0.193974	0.837
TAS2R7	0.77	0.171381	0.812
TMEM8B	0.77	0.171381	0.812
TMEM98	0.77	0.17138	0.812
USH1G	0.77	0.171381	0.812
ZNF695	0.77	0.171381	0.812
ZNRF1	0.77	0.17138	0.812
AKR1B1	0.78	0.166076	0.81
AQP3	0.78	0.166076	0.81
ATR	0.78	0.213911	0.848
BHMT	0.78	0.188433	0.833
BTN3A3	0.78	0.166075	0.81
CALM3	0.78	0.166076	0.81
CIT	0.78	0.166075	0.81
COMMD9	0.78	0.166075	0.81
COX18	0.78	0.166076	0.81
DPF3	0.78	0.166076	0.81
EIF4H	0.78	0.166076	0.81
ERGIC1	0.78	0.166075	0.81
F5	0.78	0.188433	0.833
FOXO3	0.78	0.166076	0.81
GABBR2	0.78	0.166075	0.81
GALNT3	0.78	0.166075	0.81
GDF15	0.78	0.166075	0.81
GOT2	0.78	0.166075	0.81
IBA57	0.78	0.166076	0.81
KIN	0.78	0.188433	0.833
KRTAP10-11	0.78	0.166075	0.81
MROH8	0.78	0.213911	0.848
MRPS28	0.78	0.166076	0.81
MYOT	0.78	0.166075	0.81
NUMB	0.78	0.188432	0.833
OR8H2	0.78	0.166075	0.81

PCM1	0.78	0.213911	0.848
PFKL	0.78	0.166075	0.81
PIK3CG	0.78	0.188432	0.833
PLA2G4B	0.78	0.166076	0.81
PLEKHM1	0.78	0.188433	0.833
PMAIP1	0.78	0.166076	0.81
PNPT1	0.78	0.213911	0.848
POF1B	0.78	0.166075	0.81
ROPN1	0.78	0.166076	0.81
RPS4X	0.78	0.188433	0.833
RRH	0.78	0.166076	0.81
S100G	0.78	0.213911	0.848
SHBG	0.78	0.166076	0.81
SLC51B	0.78	0.166076	0.81
SNAP25	0.78	0.166076	0.81
SNRPA1	0.78	0.166075	0.81
SOX10	0.78	0.166076	0.81
TCTE1	0.78	0.166075	0.81
TEX10	0.78	0.166075	0.81
TMEM221	0.78	0.166075	0.81
TPRG1L	0.78	0.166076	0.81
TXNDC15	0.78	0.166075	0.81
UBE2K	0.78	0.166075	0.81
USP30	0.78	0.166075	0.81
VPREB3	0.78	0.166075	0.81
ZNF615	0.78	0.166076	0.81
AASS	0.79	0.160916	0.806
AGL	0.79	0.160915	0.806
ANKRD30A	0.79	0.160916	0.806
ARPC2	0.79	0.160916	0.806
BACE1	0.79	0.160916	0.806
C1orf85	0.79	0.160916	0.806
CLPTM1L	0.79	0.160916	0.806
CNBD1	0.79	0.160916	0.806
EMC1	0.79	0.160916	0.806
GPT	0.79	0.160916	0.806
HLA-B	0.79	0.208301	0.846
HOXA5	0.79	0.160916	0.806
MAP7D1	0.79	0.183009	0.827
MATN4	0.79	0.160916	0.806
MMP10	0.79	0.18301	0.827
MROH9	0.79	0.160916	0.806
MRPL17	0.79	0.273046	0.878
MTIF3	0.79	0.18301	0.827
MYO5A	0.79	0.183009	0.827
NLRX1	0.79	0.18301	0.827
NPHP1	0.79	0.160915	0.806

NPL	0.79	0.160916	0.806
OR6S1	0.79	0.160916	0.806
OTUD5	0.79	0.160916	0.806
OXL1	0.79	0.183009	0.827
PBX1	0.79	0.18301	0.827
PDF	0.79	0.160916	0.806
PLA2G3	0.79	0.160916	0.806
POM121L2	0.79	0.160916	0.806
PRLHR	0.79	0.160916	0.806
PRR18	0.79	0.160915	0.806
RIC8A	0.79	0.160916	0.806
SAP18	0.79	0.18301	0.827
SGMS2	0.79	0.160916	0.806
SGPL1	0.79	0.160916	0.806
SLC25A10	0.79	0.160916	0.806
SLC43A3	0.79	0.160916	0.806
SMOC1	0.79	0.160916	0.806
SRSF9	0.79	0.160916	0.806
TMEM87A	0.79	0.160916	0.806
TPM1	0.79	0.160916	0.806
TRAM1	0.79	0.160915	0.806
TRPT1	0.79	0.160916	0.806
TTC12	0.79	0.18301	0.827
TTC29	0.79	0.160916	0.806
ZNF114	0.79	0.160916	0.806
ZNF614	0.79	0.160916	0.806
ABHD8	0.8	0.155842	0.803
ADAMTS14	0.8	0.155843	0.803
AJAP1	0.8	0.177711	0.82
ANKRD2	0.8	0.155843	0.803
B3GNT1	0.8	0.155843	0.803
BIRC3	0.8	0.155843	0.803
C10orf67	0.8	0.17771	0.82
COX4I2	0.8	0.155843	0.803
DACT1	0.8	0.155843	0.803
EIF2S3	0.8	0.20275	0.845
EQTN	0.8	0.155843	0.803
GFY	0.8	0.155842	0.803
GGA2	0.8	0.155842	0.803
GLB1L	0.8	0.155843	0.803
GNPAT	0.8	0.155843	0.803
HSF2	0.8	0.155843	0.803
LAPTM4A	0.8	0.155842	0.803
LASP1	0.8	0.17771	0.82
LIME1	0.8	0.155843	0.803
LRRC19	0.8	0.155843	0.803
MSR1	0.8	0.202751	0.845

NCLN	0.8	0.177711	0.82
NSUN4	0.8	0.155843	0.803
NUB1	0.8	0.155843	0.803
OR2T3	0.8	0.155842	0.803
OSTC	0.8	0.155843	0.803
PCDHGB2	0.8	0.155843	0.803
PIGB	0.8	0.202751	0.845
PLBD2	0.8	0.155843	0.803
POLR1A	0.8	0.267217	0.873
PPIB	0.8	0.155843	0.803
PPP1R37	0.8	0.17771	0.82
RASL10A	0.8	0.202751	0.845
SERPINB1	0.8	0.155842	0.803
SLC12A3	0.8	0.155843	0.803
SLC16A9	0.8	0.155842	0.803
SPINK2	0.8	0.155842	0.803
SQRDL	0.8	0.155843	0.803
SUSD3	0.8	0.155842	0.803
THOC2	0.8	0.177711	0.82
TKTL1	0.8	0.155842	0.803
TMEM242	0.8	0.155842	0.803
TMSB10	0.8	0.155843	0.803
TSPAN33	0.8	0.155843	0.803
U2AF1	0.8	0.232317	0.854
VDAC1	0.8	0.155843	0.803
WDR97	0.8	0.17771	0.82
ZNF576	0.8	0.155842	0.803
A1BG	0.81	0.150901	0.796
ACRV1	0.81	0.150901	0.796
ADPGK	0.81	0.150901	0.796
ANO2	0.81	0.197337	0.838
ARF5	0.81	0.1509	0.796
ARHGDI1A	0.81	0.150901	0.796
ARID2	0.81	0.150901	0.796
C18orf8	0.81	0.150901	0.796
C3orf79	0.81	0.150901	0.796
CALR3	0.81	0.150901	0.796
CCDC83	0.81	0.172509	0.814
CLLU1	0.81	0.172509	0.814
EHD2	0.81	0.150901	0.796
EIF2AK2	0.81	0.150901	0.796
EMILIN3	0.81	0.1509	0.796
EMR2	0.81	0.197337	0.838
FAM221A	0.81	0.1509	0.796
FLRT3	0.81	0.150901	0.796
FSHB	0.81	0.1509	0.796
GOLGA8H	0.81	0.261456	0.873

HOXD12	0.81	0.150901	0.796
HSPBAP1	0.81	0.172509	0.814
KCNRG	0.81	0.1509	0.796
KIAA1279	0.81	0.150901	0.796
KRT86	0.81	0.1509	0.796
LPIN3	0.81	0.150901	0.796
LTB	0.81	0.150901	0.796
NHEJ1	0.81	0.150901	0.796
NPIP9	0.81	0.1509	0.796
NRIP3	0.81	0.150901	0.796
OR6F1	0.81	0.1509	0.796
PLAC1	0.81	0.150901	0.796
PTBP2	0.81	0.150901	0.796
RBMS2	0.81	0.1509	0.796
SCMH1	0.81	0.172509	0.814
SEBOX	0.81	0.1509	0.796
SSFA2	0.81	0.150901	0.796
SYT10	0.81	0.150901	0.796
TCEAL4	0.81	0.226669	0.853
TCHHL1	0.81	0.1509	0.796
TIA1	0.81	0.150901	0.796
TIMM13	0.81	0.172509	0.814
TOMM70A	0.81	0.1509	0.796
TRAF3	0.81	0.1509	0.796
YWHAG	0.81	0.150901	0.796
ZC3HAV1	0.81	0.1509	0.796
ZFC3H1	0.81	0.172509	0.814
AFTPH	0.82	0.146033	0.788
AK7	0.82	0.146033	0.788
B3GALNT1	0.82	0.146034	0.788
BOD1L1	0.82	0.146033	0.788
C1orf174	0.82	0.146033	0.788
C1QL1	0.82	0.146033	0.788
C5orf63	0.82	0.167401	0.812
CDC7	0.82	0.146034	0.788
CDH19	0.82	0.146034	0.788
CDKN2C	0.82	0.146034	0.788
CTNNBIP1	0.82	0.146033	0.788
DNAJC18	0.82	0.146033	0.788
DNLZ	0.82	0.146033	0.788
DNM2	0.82	0.297556	0.886
EIF3D	0.82	0.146033	0.788
ERAP2	0.82	0.146033	0.788
EVI2A	0.82	0.146033	0.788
FAM19A3	0.82	0.146033	0.788
FAM65B	0.82	0.146033	0.788
FAM81A	0.82	0.146033	0.788

FUNDC2	0.82	0.146033	0.788
GPRIN2	0.82	0.146034	0.788
KCNMB4	0.82	0.146033	0.788
KIAA0922	0.82	0.146034	0.788
KIFAP3	0.82	0.146033	0.788
KRTAP10-7	0.82	0.146033	0.788
LRRC31	0.82	0.146033	0.788
MS4A5	0.82	0.146033	0.788
MYL7	0.82	0.146033	0.788
NBPF8	0.82	0.221168	0.849
NFS1	0.82	0.255784	0.87
OAT	0.82	0.146033	0.788
OGT	0.82	0.221168	0.849
OR5AN1	0.82	0.146033	0.788
PIK3C3	0.82	0.167401	0.812
PPBP	0.82	0.146033	0.788
PPFIA1	0.82	0.146033	0.788
RAC2	0.82	0.1674	0.812
RPS28	0.82	0.297556	0.886
SCN4A	0.82	0.192094	0.837
SEPT2	0.82	0.146033	0.788
SERF2	0.82	0.146033	0.788
SMPDL3B	0.82	0.146033	0.788
ST6GALNAC	0.82	0.167401	0.812
TCEB3C	0.82	0.146033	0.788
TCTN3	0.82	0.167401	0.812
THAP8	0.82	0.146033	0.788
TMEM246	0.82	0.167401	0.812
USP4	0.82	0.146033	0.788
YIPF3	0.82	0.146033	0.788
ZMAT3	0.82	0.146033	0.788
ZNF222	0.82	0.146034	0.788
ADCY10	0.83	0.141336	0.784
ALKBH3	0.83	0.141337	0.784
AMTN	0.83	0.141337	0.784
AOC2	0.83	0.162448	0.81
ATF7	0.83	0.162448	0.81
BBS10	0.83	0.141337	0.784
BMP7	0.83	0.141337	0.784
CADPS2	0.83	0.141337	0.784
CDS1	0.83	0.141337	0.784
CHST7	0.83	0.141337	0.784
CLEC6A	0.83	0.141336	0.784
CNGB1	0.83	0.18688	0.833
CYP4Z1	0.83	0.141337	0.784
DEFB116	0.83	0.141337	0.784
EML4	0.83	0.141337	0.784

FAM170A	0.83	0.141337	0.784
GOLGA8J	0.83	0.141337	0.784
HCN2	0.83	0.141337	0.784
HEXIM2	0.83	0.162447	0.81
HIST1H1T	0.83	0.141337	0.784
ICA1	0.83	0.141336	0.784
ISY1-RAB43	0.83	0.215753	0.848
LGALS1	0.83	0.141337	0.784
LRRC3C	0.83	0.141337	0.784
MYO3A	0.83	0.141336	0.784
NDFIP1	0.83	0.141336	0.784
NPM3	0.83	0.162448	0.81
PBK	0.83	0.141337	0.784
PCDH12	0.83	0.141337	0.784
PCED1A	0.83	0.162448	0.81
POGZ	0.83	0.141337	0.784
PPP2R2A	0.83	0.141337	0.784
PRDM7	0.83	0.141337	0.784
PSMD14	0.83	0.291876	0.884
PTH2R	0.83	0.141336	0.784
SEC31B	0.83	0.141337	0.784
SH3D21	0.83	0.141337	0.784
SLC4A7	0.83	0.141337	0.784
SLC9C2	0.83	0.141337	0.784
SYT6	0.83	0.162448	0.81
TEX12	0.83	0.18688	0.833
TM6SF2	0.83	0.18688	0.833
TMED7-TIC/	0.83	0.141337	0.784
TMEM127	0.83	0.141337	0.784
TMEM59	0.83	0.162447	0.81
TNFRSF10B	0.83	0.141337	0.784
TOMM34	0.83	0.141337	0.784
TRIM38	0.83	0.141337	0.784
TSPAN1	0.83	0.141337	0.784
TSPY8	0.83	0.341841	0.904
YME1L1	0.83	0.141336	0.784
ZSWIM1	0.83	0.141337	0.784
ABO	0.84	0.210406	0.846
ANKRD27	0.84	0.136799	0.779
C9orf171	0.84	0.136798	0.779
CCDC58	0.84	0.157529	0.806
CEP97	0.84	0.136799	0.779
CHST4	0.84	0.136798	0.779
CSNK1A1	0.84	0.15753	0.806
E2F3	0.84	0.15753	0.806
FAM92B	0.84	0.136798	0.779
FBXO17	0.84	0.136799	0.779

FKBP15	0.84	0.136798	0.779
GALT	0.84	0.136799	0.779
HMBS	0.84	0.15753	0.806
IFI44L	0.84	0.136799	0.779
LMO4	0.84	0.136798	0.779
LPCAT4	0.84	0.136799	0.779
LPIN2	0.84	0.136798	0.779
MMRN2	0.84	0.136798	0.779
MOB1B	0.84	0.136799	0.779
MRPL30	0.84	0.15753	0.806
MYB	0.84	0.244775	0.863
NPR1	0.84	0.136798	0.779
NPTX1	0.84	0.136799	0.779
NQO1	0.84	0.15753	0.806
NSUN3	0.84	0.136798	0.779
OAS2	0.84	0.136798	0.779
OR8U8	0.84	0.244775	0.863
PEX11B	0.84	0.136798	0.779
PITX2	0.84	0.15753	0.806
POLR3B	0.84	0.136798	0.779
RCN1	0.84	0.136798	0.779
RPL30	0.84	0.336248	0.904
SELT	0.84	0.136798	0.779
SEMA6D	0.84	0.136798	0.779
SIGLEC15	0.84	0.136798	0.779
SIPA1	0.84	0.15753	0.806
SPIN2A	0.84	0.157529	0.806
TMED4	0.84	0.136798	0.779
TMEM189	0.84	0.136798	0.779
TNFRSF17	0.84	0.136798	0.779
TNFSF10	0.84	0.136798	0.779
TP53BP2	0.84	0.15753	0.806
WDR52	0.84	0.136798	0.779
ZNF846	0.84	0.136798	0.779
AASDHPPT	0.85	0.132319	0.767
ADAMTS5	0.85	0.132319	0.767
AGTR1	0.85	0.13232	0.767
C19orf33	0.85	0.132319	0.767
C7orf41	0.85	0.13232	0.767
CD200R1	0.85	0.132319	0.767
CEBPE	0.85	0.13232	0.767
CLDN16	0.85	0.132319	0.767
CNOT1	0.85	0.15281	0.803
EFCAB11	0.85	0.132319	0.767
ELMOD2	0.85	0.13232	0.767
FOXP3	0.85	0.13232	0.767
GNAQ	0.85	0.13232	0.767

GPR32	0.85	0.13232	0.767
H2AFX	0.85	0.15281	0.803
HIST1H2AD	0.85	0.132319	0.767
ICAM4	0.85	0.132319	0.767
ITGA2B	0.85	0.15281	0.803
LSAMP	0.85	0.13232	0.767
MS4A15	0.85	0.132319	0.767
NLGN4Y	0.85	0.13232	0.767
OSBPL7	0.85	0.13232	0.767
OVOL1	0.85	0.132319	0.767
PLN	0.85	0.280776	0.88
PLS1	0.85	0.132319	0.767
PPFIBP2	0.85	0.15281	0.803
PSMD7	0.85	0.176824	0.818
RBL1	0.85	0.13232	0.767
RHOH	0.85	0.132319	0.767
RPUSD4	0.85	0.13232	0.767
TBC1D21	0.85	0.13232	0.767
TRIT1	0.85	0.132319	0.767
TSPAN7	0.85	0.132319	0.767
UBE2G1	0.85	0.132319	0.767
WFDC8	0.85	0.13232	0.767
ZBTB44	0.85	0.13232	0.767
ZNF26	0.85	0.152811	0.803
ZNF513	0.85	0.13232	0.767
ACPP	0.86	0.127963	0.76
ANKRD20A1	0.86	0.127963	0.76
BARHL1	0.86	0.127963	0.76
CCDC93	0.86	0.127963	0.76
CD302	0.86	0.127963	0.76
CDC6	0.86	0.171982	0.814
CLEC17A	0.86	0.127963	0.76
CLTA	0.86	0.127963	0.76
COL2A1	0.86	0.127963	0.76
COMMD3-B1	0.86	0.127963	0.76
CRISP3	0.86	0.127963	0.76
DROSHA	0.86	0.171982	0.814
ENTPD1	0.86	0.127963	0.76
EPS15	0.86	0.127963	0.76
FAM13B	0.86	0.127963	0.76
GALK2	0.86	0.127963	0.76
GALM	0.86	0.127963	0.76
GALNT10	0.86	0.148162	0.796
GALNT4	0.86	0.127963	0.76
HEXDC	0.86	0.127963	0.76
HSBP1L1	0.86	0.234091	0.859
HSCB	0.86	0.127963	0.76

IFNAR2	0.86	0.127963	0.76
KRT23	0.86	0.127963	0.76
KRTAP19-3	0.86	0.127963	0.76
LIMD2	0.86	0.127963	0.76
LRRK1	0.86	0.127963	0.76
MAGEB4	0.86	0.127963	0.76
MIR205HG	0.86	0.325231	0.901
MRPL50	0.86	0.127963	0.76
MRPS31	0.86	0.127963	0.76
NOA1	0.86	0.148161	0.796
OR52E2	0.86	0.127963	0.76
PSMD5	0.86	0.127963	0.76
RAD21	0.86	0.200087	0.838
RBM11	0.86	0.127963	0.76
RNF7	0.86	0.148161	0.796
RPF1	0.86	0.127963	0.76
SCGB2A1	0.86	0.127963	0.76
SENP8	0.86	0.127963	0.76
SH2D5	0.86	0.127963	0.76
SHANK2	0.86	0.127963	0.76
SLC35A4	0.86	0.127963	0.76
SPA17	0.86	0.127963	0.76
UBA7	0.86	0.127963	0.76
UTP20	0.86	0.200087	0.838
ZFP64	0.86	0.127963	0.76
ACSS3	0.87	0.123759	0.756
AGAP6	0.87	0.123759	0.756
AMZ1	0.87	0.123759	0.756
ANKRD36B	0.87	0.123759	0.756
APOBEC3D	0.87	0.123759	0.756
BAIAP2L1	0.87	0.123759	0.756
BMX	0.87	0.123759	0.756
C10orf25	0.87	0.123759	0.756
C12orf61	0.87	0.143665	0.788
C14orf119	0.87	0.123759	0.756
C6orf52	0.87	0.123759	0.756
C9orf89	0.87	0.123759	0.756
CLTC	0.87	0.167214	0.812
CNTF	0.87	0.123759	0.756
CSRP3	0.87	0.123759	0.756
DCAF8L1	0.87	0.123759	0.756
DEFB110	0.87	0.195098	0.838
DHX32	0.87	0.143666	0.788
GXYLT2	0.87	0.143665	0.788
HDX	0.87	0.123759	0.756
IL13RA1	0.87	0.123759	0.756
INHBA	0.87	0.123759	0.756

MMP20	0.87	0.123759	0.756
MRVI1	0.87	0.123759	0.756
NBEA	0.87	0.123759	0.756
NDUFS2	0.87	0.123759	0.756
OR10G3	0.87	0.143665	0.788
PPP1R3G	0.87	0.123759	0.756
PRMT3	0.87	0.143665	0.788
PUF60	0.87	0.195098	0.838
RIMKLB	0.87	0.123759	0.756
RPP30	0.87	0.123759	0.756
SCGB1C1	0.87	0.123759	0.756
SERINC2	0.87	0.123759	0.756
SETDB2	0.87	0.123759	0.756
SF3B2	0.87	0.123759	0.756
SFRP2	0.87	0.143665	0.788
SYNC	0.87	0.123759	0.756
TBC1D29	0.87	0.123759	0.756
TMED9	0.87	0.143665	0.788
UBA2	0.87	0.143666	0.788
ZBED6CL	0.87	0.123759	0.756
ZNF384	0.87	0.123759	0.756
ZNF629	0.87	0.123759	0.756
ACVR2A	0.88	0.11959	0.75
ADAM20	0.88	0.11959	0.75
ADPRM	0.88	0.13937	0.784
AP1S1	0.88	0.11959	0.75
ASCL1	0.88	0.11959	0.75
ATG3	0.88	0.16258	0.81
C16orf87	0.88	0.11959	0.75
C17orf80	0.88	0.11959	0.75
CDC16	0.88	0.190145	0.837
CLDN3	0.88	0.11959	0.75
CREBL2	0.88	0.11959	0.75
CXorf58	0.88	0.11959	0.75
DNM1	0.88	0.11959	0.75
EIF2S2	0.88	0.11959	0.75
ESR2	0.88	0.11959	0.75
FBXO47	0.88	0.11959	0.75
GALNT7	0.88	0.11959	0.75
GNAL	0.88	0.11959	0.75
GOLGA6L2	0.88	0.11959	0.75
GPRASP1	0.88	0.11959	0.75
KCNK2	0.88	0.11959	0.75
KIAA0895L	0.88	0.11959	0.75
KPNA7	0.88	0.11959	0.75
LHX5	0.88	0.11959	0.75
LOC81691	0.88	0.11959	0.75

NAP1L5	0.88	0.13937	0.784
NLRC3	0.88	0.11959	0.75
NPY4R	0.88	0.162581	0.81
NXF3	0.88	0.13937	0.784
OR8B2	0.88	0.11959	0.75
PDK3	0.88	0.13937	0.784
PSD2	0.88	0.11959	0.75
PVRL2	0.88	0.11959	0.75
RANBP17	0.88	0.11959	0.75
SCYL2	0.88	0.11959	0.75
SIRT7	0.88	0.11959	0.75
SIX4	0.88	0.13937	0.784
SLC13A2	0.88	0.11959	0.75
STEAP1	0.88	0.11959	0.75
TIE1	0.88	0.139369	0.784
TRPV4	0.88	0.11959	0.75
ULK2	0.88	0.11959	0.75
WBP1	0.88	0.11959	0.75
ZNF444	0.88	0.11959	0.75
ARHGAP6	0.89	0.115548	0.743
ATP10B	0.89	0.115549	0.743
BAK1	0.89	0.115548	0.743
BLOC1S2	0.89	0.115548	0.743
C1GALT1C1	0.89	0.115548	0.743
CCT8	0.89	0.157977	0.806
CHCHD1	0.89	0.115548	0.743
CXorf66	0.89	0.115548	0.743
DHCR7	0.89	0.115549	0.743
DMGDH	0.89	0.115548	0.743
EEF1B2	0.89	0.115548	0.743
ERBB3	0.89	0.115548	0.743
ERP44	0.89	0.115548	0.743
FAR1	0.89	0.115549	0.743
GOLGA6L6	0.89	0.157977	0.806
HLA-DRB5	0.89	0.135061	0.779
HLTF	0.89	0.115548	0.743
HMOX1	0.89	0.115548	0.743
KCNF1	0.89	0.115548	0.743
LIPG	0.89	0.115549	0.743
MAGEB18	0.89	0.115548	0.743
MAOB	0.89	0.115548	0.743
MECR	0.89	0.115549	0.743
MLX	0.89	0.115548	0.743
NPIPB11	0.89	0.157977	0.806
NUBPL	0.89	0.115548	0.743
OR10J3	0.89	0.135062	0.779
PARP3	0.89	0.115548	0.743

PPM1K	0.89	0.115548	0.743
PSMC6	0.89	0.157977	0.806
RPS27A	0.89	0.115549	0.743
SCAF11	0.89	0.115549	0.743
SERPINB13	0.89	0.115548	0.743
SKAP1	0.89	0.115548	0.743
TMCC3	0.89	0.115548	0.743
TYROBP	0.89	0.115548	0.743
UACA	0.89	0.115549	0.743
UBE2F	0.89	0.115548	0.743
VIL1	0.89	0.115549	0.743
VPRBP	0.89	0.157977	0.806
XKR8	0.89	0.115548	0.743
ZNF274	0.89	0.18531	0.833
AFF1	0.9	0.153489	0.803
AGBL4	0.9	0.153489	0.803
BRINP2	0.9	0.111642	0.736
C10orf53	0.9	0.111642	0.736
C10orf55	0.9	0.130901	0.767
C10orf68	0.9	0.111642	0.736
C1orf122	0.9	0.111642	0.736
CDA	0.9	0.111643	0.736
ENHO	0.9	0.130901	0.767
FIG4	0.9	0.111643	0.736
GIMAP2	0.9	0.111642	0.736
GPR52	0.9	0.111642	0.736
IER5L	0.9	0.1309	0.767
ING4	0.9	0.111642	0.736
KCTD15	0.9	0.111642	0.736
KCTD3	0.9	0.111642	0.736
KIAA0226L	0.9	0.111642	0.736
KLHL23	0.9	0.111642	0.736
LCN1	0.9	0.111642	0.736
MC3R	0.9	0.1309	0.767
MRPL18	0.9	0.130901	0.767
MRPS17	0.9	0.111643	0.736
MRRF	0.9	0.111642	0.736
MYH7	0.9	0.111642	0.736
NCOA6	0.9	0.111643	0.736
NOTCH1	0.9	0.111642	0.736
NR2C1	0.9	0.111643	0.736
NUP210L	0.9	0.111642	0.736
PFKP	0.9	0.111642	0.736
PIK3IP1	0.9	0.111643	0.736
PLEKHB2	0.9	0.111642	0.736
POFUT2	0.9	0.111642	0.736
RTN1	0.9	0.111642	0.736

SCML2	0.9	0.111642	0.736
SLC22A6	0.9	0.111642	0.736
SLC7A4	0.9	0.111642	0.736
SVOP	0.9	0.111642	0.736
THOC1	0.9	0.111642	0.736
TMEM40	0.9	0.111642	0.736
XK	0.9	0.111642	0.736
XRCC6BP1	0.9	0.111642	0.736
ZSWIM5	0.9	0.111642	0.736
ARL6IP6	0.91	0.107854	0.733
ARMC5	0.91	0.107854	0.733
ARRDC5	0.91	0.107854	0.733
BPIFC	0.91	0.126812	0.76
CHCHD6	0.91	0.107854	0.733
CXCL6	0.91	0.126812	0.76
CXorf30	0.91	0.107854	0.733
EPG5	0.91	0.107854	0.733
EPPK1	0.91	0.107854	0.733
HCST	0.91	0.107854	0.733
INO80	0.91	0.126812	0.76
IRAK1BP1	0.91	0.107854	0.733
LGALS3BP	0.91	0.126812	0.76
MSL2	0.91	0.107854	0.733
OR5T1	0.91	0.107854	0.733
PIM3	0.91	0.107854	0.733
POFUT1	0.91	0.107854	0.733
PORCN	0.91	0.107854	0.733
RAB8B	0.91	0.107854	0.733
REST	0.91	0.107854	0.733
SLC15A1	0.91	0.107854	0.733
SLC25A32	0.91	0.126811	0.76
SLC25A5	0.91	0.107854	0.733
SSH3	0.91	0.107854	0.733
STAU1	0.91	0.107854	0.733
TBC1D9B	0.91	0.107854	0.733
TIFAB	0.91	0.107854	0.733
TMEM155	0.91	0.107854	0.733
TMEM163	0.91	0.107854	0.733
TMEM54	0.91	0.107854	0.733
TTC28	0.91	0.107854	0.733
UGT1A6	0.91	0.107854	0.733
WBSCR16	0.91	0.149111	0.796
YWHAE	0.91	0.107854	0.733
ZBTB20	0.91	0.107854	0.733
ZDHHC18	0.91	0.126812	0.76
ZNF100	0.91	0.107854	0.733
ACRC	0.92	0.104191	0.727

ADORA3	0.92	0.104191	0.727
ARRDC4	0.92	0.104192	0.727
C14orf93	0.92	0.122845	0.756
C21orf58	0.92	0.104192	0.727
CCER1	0.92	0.122846	0.756
CRADD	0.92	0.104191	0.727
CRYGS	0.92	0.104192	0.727
DHX29	0.92	0.104191	0.727
DMRT1	0.92	0.104192	0.727
DRAM1	0.92	0.122846	0.756
EIF5	0.92	0.144825	0.788
ENOX1	0.92	0.104192	0.727
FAM149B1	0.92	0.122846	0.756
FAM173A	0.92	0.104191	0.727
FAM20B	0.92	0.104191	0.727
FNDC1	0.92	0.104192	0.727
GPR4	0.92	0.104191	0.727
HIF1AN	0.92	0.104191	0.727
HSD11B1	0.92	0.104192	0.727
MAPK1	0.92	0.104192	0.727
MS4A1	0.92	0.104191	0.727
OTOP3	0.92	0.104192	0.727
RBM1A1	0.92	0.104191	0.727
SOX3	0.92	0.104191	0.727
SYNGR3	0.92	0.104191	0.727
TGM2	0.92	0.104191	0.727
TRIM41	0.92	0.122846	0.756
TTC31	0.92	0.104191	0.727
TULP2	0.92	0.104192	0.727
VDAC2	0.92	0.104192	0.727
ZIK1	0.92	0.122846	0.756
ACR	0.93	0.100589	0.72
ANKRD42	0.93	0.100589	0.72
AP4B1	0.93	0.100589	0.72
BEX1	0.93	0.100589	0.72
BOK	0.93	0.100589	0.72
BPGM	0.93	0.10059	0.72
FAM63A	0.93	0.100589	0.72
GAK	0.93	0.100589	0.72
HADH	0.93	0.10059	0.72
NIPA1	0.93	0.100589	0.72
PRCP	0.93	0.100589	0.72
PRKCZ	0.93	0.10059	0.72
PTDSS1	0.93	0.100589	0.72
RAB38	0.93	0.100589	0.72
RASGEF1B	0.93	0.100589	0.72
RBMXL3	0.93	0.100589	0.72

SAYSD1	0.93	0.100589	0.72
SGOL2	0.93	0.100589	0.72
SLC7A6OS	0.93	0.100589	0.72
SMIM17	0.93	0.100589	0.72
SNN	0.93	0.100589	0.72
TDRD5	0.93	0.10059	0.72
TOP2A	0.93	0.118955	0.75
USF1	0.93	0.10059	0.72
WASF3	0.93	0.100589	0.72
WWP2	0.93	0.100589	0.72
ZNF727	0.93	0.100589	0.72
ZNF804B	0.93	0.118956	0.75
ANTXR1	0.94	0.115212	0.743
AZIN1	0.94	0.097148	0.713
C7orf65	0.94	0.097148	0.713
CCDC82	0.94	0.097148	0.713
CMTM4	0.94	0.097148	0.713
COQ3	0.94	0.097148	0.713
CREG1	0.94	0.115212	0.743
CYP4X1	0.94	0.097148	0.713
EIF3I	0.94	0.16258	0.81
EPB42	0.94	0.097148	0.713
GJD3	0.94	0.097148	0.713
GOLGA8A	0.94	0.097148	0.713
HDGFRP3	0.94	0.097148	0.713
HIPK3	0.94	0.097148	0.713
IPMK	0.94	0.097148	0.713
KCNK18	0.94	0.097148	0.713
LMTK2	0.94	0.097148	0.713
MALSU1	0.94	0.097148	0.713
MICU2	0.94	0.115212	0.743
NAAA	0.94	0.097148	0.713
NFKBIA	0.94	0.097148	0.713
NOG	0.94	0.097148	0.713
OMD	0.94	0.097148	0.713
OR4F21	0.94	0.162579	0.81
PCBD2	0.94	0.097148	0.713
PCDHB16	0.94	0.097148	0.713
PDS5B	0.94	0.097148	0.713
PHF23	0.94	0.097148	0.713
PPARD	0.94	0.097148	0.713
RNF114	0.94	0.097148	0.713
RRN3	0.94	0.097148	0.713
SC5D	0.94	0.097148	0.713
SPARC	0.94	0.097148	0.713
TMEM212	0.94	0.097148	0.713
TPBGL	0.94	0.097148	0.713

WSB2	0.94	0.097148	0.713
AGR3	0.95	0.093754	0.708
AMOTL1	0.95	0.093755	0.708
ARPP21	0.95	0.093755	0.708
BLZF1	0.95	0.093755	0.708
C2orf80	0.95	0.093754	0.708
CCDC173	0.95	0.093754	0.708
CELA2A	0.95	0.093754	0.708
CLEC2D	0.95	0.093754	0.708
CLRN1	0.95	0.093754	0.708
CLSTN3	0.95	0.093755	0.708
COLEC10	0.95	0.093754	0.708
EFCAB4B	0.95	0.093755	0.708
EXOC3L1	0.95	0.093755	0.708
FA2H	0.95	0.093755	0.708
FCRL2	0.95	0.093755	0.708
GOLGA6L4	0.95	0.093755	0.708
GPR125	0.95	0.093754	0.708
GPRC5B	0.95	0.093755	0.708
HNMT	0.95	0.093755	0.708
IFI16	0.95	0.093755	0.708
ITPRIPL1	0.95	0.093755	0.708
IVNS1ABP	0.95	0.093755	0.708
MAGT1	0.95	0.093755	0.708
MAPK7	0.95	0.093755	0.708
MED15	0.95	0.093755	0.708
MORC4	0.95	0.093754	0.708
NRAP	0.95	0.111572	0.736
NTRK3	0.95	0.093754	0.708
OR4M2	0.95	0.19029	0.837
OTX2	0.95	0.093755	0.708
PAPPA	0.95	0.093754	0.708
PKNOX2	0.95	0.111573	0.736
PLA2G15	0.95	0.093754	0.708
PLEKHD1	0.95	0.093755	0.708
POLR2J	0.95	0.22995	0.854
RBCK1	0.95	0.111573	0.736
RPL36A-HNI	0.95	0.278806	0.88
SHMT2	0.95	0.093754	0.708
SLC25A26	0.95	0.093755	0.708
SLC25A6	0.95	0.093755	0.708
SLC5A12	0.95	0.093754	0.708
UBAP2	0.95	0.093755	0.708
UGT1A8	0.95	0.093755	0.708
WDR83OS	0.95	0.093754	0.708
ZFP62	0.95	0.093755	0.708
ZNF665	0.95	0.093755	0.708

ZNF853	0.95	0.093754	0.708
ARHGAP24	0.96	0.090499	0.708
C10orf118	0.96	0.090499	0.708
C6orf62	0.96	0.090499	0.708
CATSPER3	0.96	0.128757	0.763
CCDC177	0.96	0.090499	0.708
CDCP2	0.96	0.090499	0.708
CIITA	0.96	0.090499	0.708
CNOT4	0.96	0.090499	0.708
CREM	0.96	0.090499	0.708
CRHBP	0.96	0.090499	0.708
CRYBB3	0.96	0.090499	0.708
GCG	0.96	0.090499	0.708
GFPT2	0.96	0.090499	0.708
GPR12	0.96	0.090499	0.708
GTSCR1	0.96	0.090499	0.708
H3F3A	0.96	0.090499	0.708
IGLL5	0.96	0.090499	0.708
KRTAP10-8	0.96	0.10798	0.733
KRTAP22-2	0.96	0.090499	0.708
LDHC	0.96	0.090499	0.708
LENG9	0.96	0.090499	0.708
MANEAL	0.96	0.090499	0.708
MDF1	0.96	0.090499	0.708
MYO9B	0.96	0.090499	0.708
NLGN4X	0.96	0.090499	0.708
NPIPB15	0.96	0.090499	0.708
NRG4	0.96	0.090499	0.708
OGFOD3	0.96	0.090499	0.708
PLCL2	0.96	0.090499	0.708
POLR2M	0.96	0.090499	0.708
PRB3	0.96	0.128757	0.763
PRM1	0.96	0.090499	0.708
RUNDC3A	0.96	0.10798	0.733
SCAI	0.96	0.090499	0.708
TASP1	0.96	0.090499	0.708
TMEM61	0.96	0.10798	0.733
TRPC3	0.96	0.090499	0.708
TYK2	0.96	0.090499	0.708
UTP11L	0.96	0.090499	0.708
VIM	0.96	0.090499	0.708
WDR45	0.96	0.090499	0.708
XAF1	0.96	0.090499	0.708
C8orf89	0.97	0.124979	0.76
COL4A3	0.97	0.087285	0.708
CTAG2	0.97	0.087285	0.708
DDX5	0.97	0.087285	0.708

ELF2	0.97	0.087285	0.708
FADD	0.97	0.104529	0.727
FAM151B	0.97	0.087285	0.708
FAM21A	0.97	0.087285	0.708
FGFR1	0.97	0.087285	0.708
FRYL	0.97	0.087285	0.708
GNG3	0.97	0.087285	0.708
GPHA2	0.97	0.087285	0.708
IGSF9	0.97	0.087285	0.708
IRX2	0.97	0.10453	0.727
KLHL31	0.97	0.087285	0.708
PALB2	0.97	0.10453	0.727
PARD6B	0.97	0.087286	0.708
PPP2R5C	0.97	0.087285	0.708
PPP3CA	0.97	0.087286	0.708
PRSS54	0.97	0.087285	0.708
RAB27A	0.97	0.10453	0.727
RASAL1	0.97	0.087285	0.708
RSPO1	0.97	0.087285	0.708
SCNN1G	0.97	0.087285	0.708
SFMBT1	0.97	0.10453	0.727
SPOCD1	0.97	0.087285	0.708
STEAP4	0.97	0.087285	0.708
TRIM71	0.97	0.087285	0.708
USP9Y	0.97	0.087285	0.708
ANGPTL6	0.98	0.121284	0.756
ASPHD2	0.98	0.084209	0.7
BLID	0.98	0.08421	0.7
BLOC1S4	0.98	0.08421	0.7
BMP6	0.98	0.08421	0.7
BRMS1	0.98	0.101146	0.72
C15orf38-AF	0.98	0.101146	0.72
CACNB1	0.98	0.084209	0.7
FAM58A	0.98	0.08421	0.7
FBXL5	0.98	0.084209	0.7
GATC	0.98	0.08421	0.7
IRF2BP1	0.98	0.101146	0.72
KIAA0895	0.98	0.084209	0.7
MIDN	0.98	0.084209	0.7
ORAI1	0.98	0.08421	0.7
OTUD3	0.98	0.101146	0.72
PDCL2	0.98	0.101146	0.72
RBFOX1	0.98	0.101146	0.72
RBMS1	0.98	0.084209	0.7
SEL1L2	0.98	0.08421	0.7
SHC3	0.98	0.101146	0.72
SPTAN1	0.98	0.08421	0.7

SULT1A3	0.98	0.084209	0.7
TAF6	0.98	0.121285	0.756
TFEB	0.98	0.101145	0.72
TIAL1	0.98	0.084209	0.7
TLR6	0.98	0.08421	0.7
TMEM196	0.98	0.084209	0.7
TMX1	0.98	0.084209	0.7
TYSND1	0.98	0.08421	0.7
UVRAG	0.98	0.08421	0.7
VSTM5	0.98	0.08421	0.7
ACBD5	0.99	0.081205	0.69
ANG	0.99	0.081206	0.69
ASCL2	0.99	0.081206	0.69
ATP4A	0.99	0.081206	0.69
BGN	0.99	0.081206	0.69
C2orf72	0.99	0.081206	0.69
CALM1	0.99	0.081206	0.69
CCDC153	0.99	0.081206	0.69
CD69	0.99	0.081206	0.69
CDH17	0.99	0.081206	0.69
DCUN1D1	0.99	0.081206	0.69
GRM8	0.99	0.097794	0.714
HARS	0.99	0.259816	0.87
HNF4G	0.99	0.081206	0.69
IFI30	0.99	0.081206	0.69
IMPACT	0.99	0.081206	0.69
KRTAP4-5	0.99	0.097794	0.714
LYPD6	0.99	0.081206	0.69
MARC1	0.99	0.081206	0.69
MCUR1	0.99	0.081206	0.69
MEP1B	0.99	0.081206	0.69
NOL3	0.99	0.097794	0.714
NR0B1	0.99	0.081206	0.69
PDIK1L	0.99	0.081206	0.69
PLEKHM2	0.99	0.097793	0.714
POLR2A	0.99	0.097794	0.714
RAB3GAP2	0.99	0.081206	0.69
RBMX1D	0.99	0.081206	0.69
RIPK2	0.99	0.081206	0.69
RPL22L1	0.99	0.081205	0.69
RPS13	0.99	0.142064	0.787
RSBN1L	0.99	0.081205	0.69
RXFP2	0.99	0.081205	0.69
SLC7A6	0.99	0.097794	0.714
SRGAP1	0.99	0.081205	0.69
ST20-MTHF1	0.99	0.081206	0.69
SULT1A4	0.99	0.081206	0.69

SUMF1	0.99	0.081205	0.69
SUPT5H	0.99	0.11766	0.75
TGM4	0.99	0.081206	0.69
USP9X	0.99	0.081206	0.69
ZBTB8A	0.99	0.081205	0.69
ZFX	0.99	0.081206	0.69
ZNF330	0.99	0.097793	0.714
AGO3	1	0.078305	0.688
ATF2	1	0.078305	0.688
ATXN2L	1	0.078305	0.688
CCDC15	1	0.078305	0.688
DCT	1	0.078305	0.688
EMC2	1	0.078305	0.688
FTO	1	0.078305	0.688
GNB3	1	0.094596	0.711
HERC4	1	0.078305	0.688
HMX3	1	0.078305	0.688
KCNK10	1	0.078305	0.688
KLHDC4	1	0.078305	0.688
KRTAP5-9	1	0.078305	0.688
MIPEP	1	0.078305	0.688
NKAPL	1	0.078305	0.688
NMRK1	1	0.078305	0.688
NRAS	1	0.078305	0.688
NRM	1	0.078305	0.688
OVCA2	1	0.094596	0.711
RASL10B	1	0.078305	0.688
RELL2	1	0.094596	0.711
SETD8	1	0.114138	0.743
SLC2A5	1	0.078305	0.688
TAOK2	1	0.078305	0.688
TEX29	1	0.094597	0.711
TFB2M	1	0.078305	0.688
TMEM259	1	0.094596	0.711
USP17L10	1	0.094596	0.711
ZC4H2	1	0.078305	0.688
ADAR	1.01	0.07549	0.68
ANKRD33	1.01	0.091451	0.708
ARGLU1	1.01	0.091451	0.708
CLEC5A	1.01	0.07549	0.68
CNN1	1.01	0.07549	0.68
CNTN4	1.01	0.110674	0.736
COL13A1	1.01	0.07549	0.68
DUS2	1.01	0.07549	0.68
FFAR2	1.01	0.091451	0.708
GLRX5	1.01	0.091451	0.708
HK1	1.01	0.075489	0.68

MLLT10	1.01	0.07549	0.68
MT1HL1	1.01	0.07549	0.68
MYO7A	1.01	0.07549	0.68
NDC80	1.01	0.164923	0.81
PBX2	1.01	0.075489	0.68
PDCD2	1.01	0.110674	0.736
PLK1	1.01	0.164923	0.81
RGS11	1.01	0.091451	0.708
RIOK2	1.01	0.07549	0.68
RPA3	1.01	0.110673	0.736
SLC37A1	1.01	0.07549	0.68
SNX29	1.01	0.07549	0.68
TBC1D4	1.01	0.07549	0.68
VPS41	1.01	0.07549	0.68
ACOT6	1.02	0.088472	0.708
ANGPTL1	1.02	0.072739	0.669
BEST4	1.02	0.072739	0.669
C15orf52	1.02	0.088473	0.708
C22orf46	1.02	0.072739	0.669
FOXN2	1.02	0.072739	0.669
GPCPD1	1.02	0.072739	0.669
INTS5	1.02	0.130874	0.767
IRAK2	1.02	0.072739	0.669
L2HGDH	1.02	0.072739	0.669
LMAN1L	1.02	0.107281	0.733
LRWD1	1.02	0.072739	0.669
LSM12	1.02	0.072739	0.669
LYPLAL1	1.02	0.072738	0.669
LYZL6	1.02	0.072739	0.669
MED29	1.02	0.072739	0.669
NARF	1.02	0.072738	0.669
NELFB	1.02	0.088472	0.708
PPAP2A	1.02	0.072739	0.669
PSMD11	1.02	0.088472	0.708
RTN4RL1	1.02	0.072738	0.669
SFTPA2	1.02	0.088473	0.708
SLA	1.02	0.072738	0.669
STRBP	1.02	0.072739	0.669
TCN2	1.02	0.088473	0.708
TMED7	1.02	0.072739	0.669
TSPAN4	1.02	0.072739	0.669
VIMP	1.02	0.072739	0.669
WFDC11	1.02	0.072739	0.669
AFP	1.03	0.070079	0.659
AKR1E2	1.03	0.070079	0.659
CRLS1	1.03	0.070079	0.659
EMC9	1.03	0.070079	0.659

EPHB1	1.03	0.070079	0.659
FBXO39	1.03	0.070079	0.659
FCAMR	1.03	0.070079	0.659
FRZB	1.03	0.070079	0.659
IRF2BP2	1.03	0.070079	0.659
ITGAV	1.03	0.070079	0.659
KIAA1549	1.03	0.070079	0.659
LYPD1	1.03	0.070079	0.659
PATZ1	1.03	0.085513	0.708
PRKRIR	1.03	0.070078	0.659
RDH8	1.03	0.103986	0.727
RHBDD3	1.03	0.070079	0.659
SCML1	1.03	0.070079	0.659
SKA3	1.03	0.070079	0.659
SLC7A5	1.03	0.070079	0.659
SMOC2	1.03	0.070079	0.659
TBC1D3E	1.03	0.156946	0.806
TBC1D3I	1.03	0.156946	0.806
TBC1D3K	1.03	0.156946	0.806
TBC1D3L	1.03	0.156946	0.806
TPX2	1.03	0.070078	0.659
UBR7	1.03	0.070079	0.659
XIAP	1.03	0.070079	0.659
ANXA5	1.04	0.067526	0.652
C6orf89	1.04	0.067525	0.652
C9orf64	1.04	0.067525	0.652
CCNG1	1.04	0.067525	0.652
CNR1	1.04	0.067526	0.652
EP400	1.04	0.082659	0.7
GFM2	1.04	0.067526	0.652
ISLR	1.04	0.082659	0.7
ITGA6	1.04	0.067525	0.652
NAT8B	1.04	0.067525	0.652
NDUFB10	1.04	0.067525	0.652
PDIA4	1.04	0.067525	0.652
PGBD1	1.04	0.067526	0.652
SLC1A4	1.04	0.067525	0.652
SPIRE1	1.04	0.067525	0.652
SSBP2	1.04	0.067525	0.652
TNFRSF11B	1.04	0.067525	0.652
TTC13	1.04	0.067525	0.652
TTN	1.04	0.067525	0.652
ZNF319	1.04	0.067525	0.652
ANXA8	1.05	0.065045	0.64
AP1G1	1.05	0.065044	0.64
BATF	1.05	0.065044	0.64
C19orf71	1.05	0.065044	0.64

C7orf66	1.05	0.065045	0.64
CXCL17	1.05	0.065044	0.64
CXorf49	1.05	0.065044	0.64
CXorf49B	1.05	0.065044	0.64
FAM206A	1.05	0.065044	0.64
GRPR	1.05	0.065044	0.64
KHSRP	1.05	0.065044	0.64
KIAA0825	1.05	0.065044	0.64
L3MBTL3	1.05	0.065045	0.64
PTPN14	1.05	0.097691	0.714
SOHLH1	1.05	0.079831	0.69
SSX5	1.05	0.065044	0.64
TENM1	1.05	0.065044	0.64
THAP1	1.05	0.065044	0.64
ULK3	1.05	0.065044	0.64
VHLL	1.05	0.065044	0.64
ATPIF1	1.06	0.062624	0.631
CBX1	1.06	0.077122	0.688
CCNY	1.06	0.062624	0.631
CEACAM1	1.06	0.062624	0.631
CWC22	1.06	0.062625	0.631
DCAF5	1.06	0.062624	0.631
EYA3	1.06	0.062624	0.631
GP5	1.06	0.077122	0.688
HAP1	1.06	0.077122	0.688
HFM1	1.06	0.062624	0.631
ISL1	1.06	0.062625	0.631
MVP	1.06	0.062624	0.631
OR13A1	1.06	0.062624	0.631
PAF1	1.06	0.077122	0.688
PDE6H	1.06	0.062624	0.631
PIGK	1.06	0.062624	0.631
RASL11B	1.06	0.062624	0.631
RNPEP	1.06	0.062625	0.631
SNX12	1.06	0.062624	0.631
STIP1	1.06	0.094657	0.711
TMEM63C	1.06	0.062624	0.631
WBP11	1.06	0.062624	0.631
ZNF286B	1.06	0.062624	0.631
ADAMTS16	1.07	0.060279	0.622
AOAH	1.07	0.06028	0.622
ARG1	1.07	0.060279	0.622
C11orf52	1.07	0.074472	0.68
CHD6	1.07	0.06028	0.622
DCLK2	1.07	0.06028	0.622
FAM231B	1.07	0.06028	0.622
FRMD4A	1.07	0.060279	0.622

GK2	1.07	0.060279	0.622
KCNH7	1.07	0.074472	0.68
KRT24	1.07	0.06028	0.622
LRP12	1.07	0.06028	0.622
MAP3K12	1.07	0.06028	0.622
NISCH	1.07	0.074472	0.68
NTSR2	1.07	0.06028	0.622
OMG	1.07	0.06028	0.622
OTUD6B	1.07	0.06028	0.622
PABPC4L	1.07	0.06028	0.622
PACSIN3	1.07	0.06028	0.622
PIK3C2A	1.07	0.06028	0.622
PPP1R10	1.07	0.074472	0.68
RBM6	1.07	0.06028	0.622
RIBC1	1.07	0.074473	0.68
RNFT1	1.07	0.06028	0.622
SNX15	1.07	0.091736	0.708
UHRF2	1.07	0.06028	0.622
ZNF273	1.07	0.074473	0.68
ZNF417	1.07	0.06028	0.622
ZNHIT3	1.07	0.06028	0.622
ADAMTS8	1.08	0.088879	0.708
AHI1	1.08	0.057994	0.616
ARL16	1.08	0.057995	0.616
CFHR2	1.08	0.057995	0.616
CLDN34	1.08	0.057995	0.616
DNAH5	1.08	0.057995	0.616
DTX3L	1.08	0.057995	0.616
FGF13	1.08	0.057995	0.616
HHLA1	1.08	0.057994	0.616
KDELR1	1.08	0.057995	0.616
LXN	1.08	0.057994	0.616
MGRN1	1.08	0.057995	0.616
MIF4GD	1.08	0.057995	0.616
NDUFAF6	1.08	0.057994	0.616
PHF19	1.08	0.057995	0.616
POLD2	1.08	0.088879	0.708
PPM1A	1.08	0.057994	0.616
PPP3CC	1.08	0.057994	0.616
PSEN1	1.08	0.057995	0.616
RFPL4A	1.08	0.057995	0.616
RXFP4	1.08	0.071881	0.669
SLC23A2	1.08	0.057995	0.616
TCL1B	1.08	0.057995	0.616
TEX38	1.08	0.057995	0.616
UBFD1	1.08	0.057994	0.616
UNC5D	1.08	0.071881	0.669

VASN	1.08	0.057995	0.616
WDR63	1.08	0.057994	0.616
ZNF32	1.08	0.057995	0.616
AHCTF1	1.09	0.069394	0.659
AK9	1.09	0.055786	0.613
BMI1	1.09	0.055786	0.613
BPIFB1	1.09	0.069394	0.659
CBY3	1.09	0.055786	0.613
CRX	1.09	0.055785	0.613
DDX21	1.09	0.107418	0.733
DENND4A	1.09	0.069394	0.659
GPR142	1.09	0.055786	0.613
GPRASP2	1.09	0.055785	0.613
KIAA1143	1.09	0.055785	0.613
KLF13	1.09	0.055785	0.613
LMAN1	1.09	0.055785	0.613
LRIG2	1.09	0.055785	0.613
LRRC63	1.09	0.216634	0.848
LYAR	1.09	0.055785	0.613
MRPS23	1.09	0.055785	0.613
PIGN	1.09	0.055785	0.613
POMT1	1.09	0.069394	0.659
PPAPDC1B	1.09	0.055785	0.613
PTGDR	1.09	0.055785	0.613
PTRH2	1.09	0.055785	0.613
RAB35	1.09	0.055785	0.613
RNF152	1.09	0.055786	0.613
SDR42E1	1.09	0.055786	0.613
SLC19A1	1.09	0.069394	0.659
TOMM7	1.09	0.055786	0.613
TTC9C	1.09	0.055785	0.613
WIBG	1.09	0.069394	0.659
ZNF275	1.09	0.055786	0.613
ZNF823	1.09	0.055786	0.613
ZZZ3	1.09	0.055785	0.613
ACAD9	1.1	0.053673	0.609
ACOX2	1.1	0.053673	0.609
BBS12	1.1	0.053672	0.609
BSG	1.1	0.083402	0.7
COCH	1.1	0.053673	0.609
FMR1NB	1.1	0.053673	0.609
MRPL54	1.1	0.053672	0.609
NHLRC3	1.1	0.053673	0.609
OR2D3	1.1	0.066973	0.652
PLAT	1.1	0.053673	0.609
PSMA6	1.1	0.053672	0.609
RAB11A	1.1	0.053673	0.609

SPNS1	1.1	0.053673	0.609
ASB4	1.11	0.051634	0.599
C3	1.11	0.051634	0.599
CHCHD3	1.11	0.051634	0.599
DAPK3	1.11	0.051634	0.599
DCAF12	1.11	0.051635	0.599
DRD1	1.11	0.051634	0.599
DYRK2	1.11	0.051634	0.599
EBI3	1.11	0.06462	0.64
ERVFRD-1	1.11	0.051635	0.599
FAM105B	1.11	0.051634	0.599
FCGRT	1.11	0.06462	0.64
GJA9	1.11	0.051634	0.599
GPR155	1.11	0.051635	0.599
GPR37	1.11	0.051635	0.599
HIST2H3D	1.11	0.051634	0.599
LIG1	1.11	0.208666	0.846
MANSC4	1.11	0.051635	0.599
OR1L1	1.11	0.051634	0.599
PILRB	1.11	0.064621	0.64
PRPF40B	1.11	0.080734	0.69
SCAF4	1.11	0.06462	0.64
SPTLC3	1.11	0.051634	0.599
WDR73	1.11	0.051635	0.599
BTAF1	1.12	0.062383	0.631
DIP2B	1.12	0.04966	0.593
FAM19A5	1.12	0.04966	0.593
GNG5	1.12	0.04966	0.593
LYL1	1.12	0.04966	0.593
MRPL40	1.12	0.04966	0.593
N4BP1	1.12	0.04966	0.593
OR1F1	1.12	0.062384	0.631
PLEKHM3	1.12	0.049659	0.593
PSMD13	1.12	0.04966	0.593
S100A9	1.12	0.04966	0.593
SLC31A2	1.12	0.04966	0.593
SPATA20	1.12	0.04966	0.593
TACC3	1.12	0.04966	0.593
TMEM161B	1.12	0.04966	0.593
WDR75	1.12	0.049659	0.593
C14orf105	1.13	0.047762	0.587
CCL15	1.13	0.047762	0.587
CLUH	1.13	0.060165	0.622
DPYSL3	1.13	0.060165	0.622
EXTL2	1.13	0.047761	0.587
GLP2R	1.13	0.060165	0.622
HIAT1	1.13	0.047762	0.587

MOB1A	1.13	0.047761	0.587
NDUFAF2	1.13	0.047762	0.587
NDUFC2-KC	1.13	0.047761	0.587
NT5C2	1.13	0.047761	0.587
OR1N1	1.13	0.047762	0.587
PLET1	1.13	0.060166	0.622
RNASE7	1.13	0.047761	0.587
RRP7A	1.13	0.060166	0.622
TFB1M	1.13	0.047761	0.587
TMEM202	1.13	0.047761	0.587
ZNF512	1.13	0.047762	0.587
ABHD10	1.14	0.058058	0.616
ADAM21	1.14	0.045901	0.575
BTBD16	1.14	0.045901	0.575
C6	1.14	0.0459	0.575
CCNH	1.14	0.0459	0.575
FBXL4	1.14	0.045901	0.575
HOXC12	1.14	0.07324	0.673
HYPK	1.14	0.0459	0.575
IL7	1.14	0.0459	0.575
IPPK	1.14	0.0459	0.575
MBD4	1.14	0.058058	0.616
MZT2A	1.14	0.045901	0.575
PDE7A	1.14	0.0459	0.575
PLD6	1.14	0.0459	0.575
RUNDC1	1.14	0.0459	0.575
RUVBL2	1.14	0.152796	0.803
TIMM17A	1.14	0.058058	0.616
TRPM7	1.14	0.058058	0.616
ANXA8L1	1.15	0.044094	0.562
BRD8	1.15	0.055986	0.614
CD74	1.15	0.044094	0.562
CENPQ	1.15	0.044093	0.562
COMMD3	1.15	0.044094	0.562
COMMD5	1.15	0.044094	0.562
FAM160A2	1.15	0.044093	0.562
FEM1C	1.15	0.044094	0.562
IRF2BPL	1.15	0.044094	0.562
LIG3	1.15	0.044094	0.562
LPGAT1	1.15	0.044094	0.562
NDUFC2	1.15	0.044094	0.562
PIK3R4	1.15	0.044094	0.562
PLXND1	1.15	0.044094	0.562
RBM47	1.15	0.044094	0.562
SCN7A	1.15	0.044094	0.562
SRRT	1.15	0.055986	0.614
TTLL11	1.15	0.044094	0.562

UGDH	1.15	0.044094	0.562
VPS26A	1.15	0.044094	0.562
AES	1.16	0.042388	0.558
AP1B1	1.16	0.042388	0.558
BTD	1.16	0.042387	0.558
CASP12	1.16	0.042387	0.558
CCDC102B	1.16	0.042387	0.558
CKAP5	1.16	0.087488	0.708
CYP19A1	1.16	0.042387	0.558
DAZAP2	1.16	0.054001	0.61
DTX3	1.16	0.054	0.61
ENTPD5	1.16	0.042388	0.558
GLTP	1.16	0.042388	0.558
GPR126	1.16	0.042387	0.558
HIST2H3C	1.16	0.042387	0.558
LINC00452	1.16	0.042387	0.558
NFXL1	1.16	0.042388	0.558
NOB1	1.16	0.042387	0.558
NRXN2	1.16	0.042388	0.558
PUS1	1.16	0.054001	0.61
RABIF	1.16	0.042388	0.558
RELN	1.16	0.054	0.61
RRAS2	1.16	0.042387	0.558
SGPP2	1.16	0.042387	0.558
SLC35E2	1.16	0.042387	0.558
TADA2A	1.16	0.042387	0.558
TATDN3	1.16	0.042387	0.558
BCHE	1.17	0.040705	0.553
C8orf46	1.17	0.040705	0.553
CDK13	1.17	0.040705	0.553
GSAP	1.17	0.040705	0.553
HIST2H3A	1.17	0.040705	0.553
HSF1	1.17	0.040704	0.553
KCMF1	1.17	0.040705	0.553
KRTAP1-5	1.17	0.052053	0.599
MEAF6	1.17	0.052052	0.599
MRPS12	1.17	0.040704	0.553
OXR1	1.17	0.040705	0.553
PRKDC	1.17	0.040705	0.553
RREB1	1.17	0.052052	0.599
SART1	1.17	0.1098	0.736
SH3BGR	1.17	0.052052	0.599
SNAPIN	1.17	0.040704	0.553
SPATA18	1.17	0.052052	0.599
VSTM4	1.17	0.040704	0.553
WASF2	1.17	0.052052	0.599
ZNF302	1.17	0.040705	0.553

ZSWIM8	1.17	0.040705	0.553
AP1S3	1.18	0.050154	0.594
B4GALT7	1.18	0.039093	0.547
C19orf60	1.18	0.050153	0.594
C9orf170	1.18	0.039092	0.547
CYCS	1.18	0.039093	0.547
DDX28	1.18	0.039093	0.547
EIF3K	1.18	0.039093	0.547
FBXO28	1.18	0.050153	0.594
SLC35E2B	1.18	0.050153	0.594
STARD3	1.18	0.050153	0.594
UBR4	1.18	0.050154	0.594
ZNF20	1.18	0.039092	0.547
ANKRD33B	1.19	0.048316	0.587
BTBD19	1.19	0.048317	0.587
CCDC120	1.19	0.048317	0.587
DDC	1.19	0.037561	0.533
GTF2H1	1.19	0.037561	0.533
HNRNPAB	1.19	0.03756	0.533
ITCH	1.19	0.048316	0.587
LOC1001279	1.19	0.048317	0.587
LOC200726	1.19	0.048316	0.587
PDE12	1.19	0.048316	0.587
PLA2G12B	1.19	0.037561	0.533
PNISR	1.19	0.037561	0.533
RFPL4AL1	1.19	0.037561	0.533
SPIN2B	1.19	0.048316	0.587
SUMO2	1.19	0.062037	0.631
TIMM44	1.19	0.037561	0.533
UGT1A3	1.19	0.03756	0.533
USP1	1.19	0.037561	0.533
ZC3H6	1.19	0.037561	0.533
ZNF235	1.19	0.03756	0.533
ZNF276	1.19	0.037561	0.533
ZNF574	1.19	0.062037	0.631
ZNF646	1.19	0.048316	0.587
ACP5	1.2	0.036059	0.524
CWH43	1.2	0.036059	0.524
EDEM1	1.2	0.036059	0.524
FKBPL	1.2	0.036059	0.524
FOXN3	1.2	0.036059	0.524
FPR1	1.2	0.036059	0.524
PFKFB4	1.2	0.046543	0.582
PRPF4	1.2	0.077551	0.688
PTCD2	1.2	0.036059	0.524
RBM1F	1.2	0.036059	0.524
RHOQ	1.2	0.036059	0.524

SERP2	1.2	0.036059	0.524
SERPINA12	1.2	0.036059	0.524
SMARCB1	1.2	0.036059	0.524
TMED3	1.2	0.036059	0.524
TNC	1.2	0.036059	0.524
CNTRL	1.21	0.044812	0.57
ENDOG	1.21	0.034612	0.517
FAM193A	1.21	0.034612	0.517
FBXO45	1.21	0.034612	0.517
FOCAD	1.21	0.034612	0.517
FXR1	1.21	0.034612	0.517
GADL1	1.21	0.034613	0.517
HAPLN2	1.21	0.034613	0.517
KCNMA1	1.21	0.034612	0.517
MED12	1.21	0.057973	0.616
RBM12	1.21	0.034612	0.517
SEPSECS	1.21	0.044812	0.57
TMEM150C	1.21	0.034612	0.517
TMEM39B	1.21	0.034613	0.517
TUBB1	1.21	0.034613	0.517
UEVLD	1.21	0.034613	0.517
ZDHHC6	1.21	0.034612	0.517
ACTR3	1.22	0.033205	0.51
ALG1L	1.22	0.043173	0.562
CACNA2D1	1.22	0.043174	0.562
CCDC121	1.22	0.033205	0.51
CCDC90B	1.22	0.033205	0.51
CD99L2	1.22	0.033205	0.51
CLDN7	1.22	0.033205	0.51
DLG2	1.22	0.043173	0.562
JAZF1	1.22	0.033205	0.51
KCNE4	1.22	0.033205	0.51
MEF2A	1.22	0.043174	0.562
METTL17	1.22	0.043174	0.562
MYC	1.22	0.127124	0.76
NEIL1	1.22	0.043173	0.562
OR6B3	1.22	0.033205	0.51
PABPC1L2A	1.22	0.033205	0.51
PRKAG2	1.22	0.033205	0.51
PTPRQ	1.22	0.033205	0.51
RASGRP1	1.22	0.033205	0.51
STAT4	1.22	0.033205	0.51
TCEA3	1.22	0.033205	0.51
TMSB15B	1.22	0.127124	0.76
USP16	1.22	0.033205	0.51
ARF4	1.23	0.031875	0.505
ARF6	1.23	0.031874	0.505

AVP	1.23	0.031875	0.505
CBLN3	1.23	0.031875	0.505
COMMD10	1.23	0.031875	0.505
ENC1	1.23	0.031875	0.505
GPR148	1.23	0.031875	0.505
KCNG4	1.23	0.04156	0.558
MFAP4	1.23	0.031875	0.505
NOSTRIN	1.23	0.031875	0.505
PABPC1L2B	1.23	0.031875	0.505
RABEP1	1.23	0.031875	0.505
TMEM38A	1.23	0.031874	0.505
ACTN4	1.24	0.030593	0.498
ACTR3C	1.24	0.030593	0.498
ADAM15	1.24	0.040047	0.553
ADAM9	1.24	0.030592	0.498
B3GNT8	1.24	0.030593	0.498
CACNA1D	1.24	0.030593	0.498
COPG1	1.24	0.052291	0.601
DEFB112	1.24	0.040047	0.553
DNAJC25	1.24	0.030593	0.498
G6PC2	1.24	0.030593	0.498
IQGAP2	1.24	0.030592	0.498
KLHL8	1.24	0.030593	0.498
LRRC73	1.24	0.040047	0.553
PRR23A	1.24	0.040047	0.553
RTN3	1.24	0.030593	0.498
SIK3	1.24	0.040047	0.553
SMYD3	1.24	0.030593	0.498
AHCYL1	1.25	0.038524	0.543
DCST2	1.25	0.029324	0.489
DNAJC13	1.25	0.029324	0.489
EPB41L4B	1.25	0.029324	0.489
GTPBP10	1.25	0.029324	0.489
HAUS3	1.25	0.050549	0.598
NFATC2	1.25	0.029324	0.489
OR12D3	1.25	0.038524	0.543
RBM4B	1.25	0.038524	0.543
RINL	1.25	0.029324	0.489
RIPK4	1.25	0.029324	0.489
RNASEH1	1.25	0.029324	0.489
SLC38A8	1.25	0.029324	0.489
STK39	1.25	0.029324	0.489
TPGS1	1.25	0.029324	0.489
ADAM33	1.26	0.02814	0.484
CAT	1.26	0.02814	0.484
CD83	1.26	0.02814	0.484
CDC26	1.26	0.048792	0.593

CTSL	1.26	0.028141	0.484
FAM114A2	1.26	0.02814	0.484
GAL3ST4	1.26	0.037076	0.533
GCNT7	1.26	0.037076	0.533
HELQ	1.26	0.028141	0.484
LGI3	1.26	0.02814	0.484
MKKS	1.26	0.02814	0.484
MUM1	1.26	0.037076	0.533
OMA1	1.26	0.028141	0.484
PCED1B	1.26	0.02814	0.484
PRPF38A	1.26	0.02814	0.484
QSER1	1.26	0.02814	0.484
S100PBP	1.26	0.02814	0.484
TAF11	1.26	0.02814	0.484
TIMM10B	1.26	0.02814	0.484
TMEM243	1.26	0.028141	0.484
UTS2B	1.26	0.02814	0.484
YY1	1.26	0.037076	0.533
ARMC6	1.27	0.027023	0.484
ATP8A2	1.27	0.027023	0.484
EFNA5	1.27	0.035675	0.524
MCTP1	1.27	0.027022	0.484
PCDHB3	1.27	0.027023	0.484
RSPRY1	1.27	0.035675	0.524
SARNP	1.27	0.027023	0.484
VPS13B	1.27	0.027023	0.484
ARHGEF10	1.28	0.034313	0.517
ASAH1	1.28	0.025912	0.473
BOC	1.28	0.025912	0.473
C6orf203	1.28	0.025912	0.473
CD320	1.28	0.025913	0.473
DNAI1	1.28	0.025913	0.473
MRPL12	1.28	0.025912	0.473
MTCH2	1.28	0.034313	0.517
NMT1	1.28	0.025913	0.473
NSUN2	1.28	0.025912	0.473
OS9	1.28	0.025912	0.473
POLR2F	1.28	0.060636	0.625
RIMS4	1.28	0.025913	0.473
TIGD2	1.28	0.025912	0.473
TIMMDC1	1.28	0.025913	0.473
YTHDC2	1.28	0.034313	0.517
ZC3H18	1.28	0.034314	0.517
C2orf44	1.29	0.02482	0.468
C8orf59	1.29	0.079326	0.69
CUL1	1.29	0.02482	0.468
DNAJA2	1.29	0.03302	0.51

LRRC40	1.29	0.02482	0.468
MED23	1.29	0.02482	0.468
OR5P2	1.29	0.02482	0.468
STK11	1.29	0.033021	0.51
TAZ	1.29	0.043931	0.562
ZNF544	1.29	0.02482	0.468
BRAF	1.3	0.023786	0.458
EHMT1	1.3	0.023787	0.458
ENDOD1	1.3	0.023787	0.458
EXOSC3	1.3	0.031743	0.505
H2AFZ	1.3	0.023787	0.458
NRCAM	1.3	0.031743	0.505
RNF17	1.3	0.023786	0.458
SNRPB2	1.3	0.023787	0.458
SNX31	1.3	0.023787	0.458
TRAF7	1.3	0.023787	0.458
UQCRH	1.3	0.031743	0.505
UROC1	1.3	0.023787	0.458
VPS18	1.3	0.023787	0.458
CDK20	1.31	0.022793	0.448
ETV3	1.31	0.022793	0.448
FAM92A1	1.31	0.022793	0.448
GARS	1.31	0.074998	0.68
HEATR5B	1.31	0.022792	0.448
HSD17B4	1.31	0.022793	0.448
MRPL21	1.31	0.022792	0.448
PAQR9	1.31	0.030513	0.498
PHF17	1.31	0.022793	0.448
POLR2H	1.31	0.022792	0.448
RAB5C	1.31	0.022793	0.448
RPL35A	1.31	0.102639	0.727
SCG2	1.31	0.022793	0.448
SCNN1B	1.31	0.022793	0.448
SMG7	1.31	0.030514	0.498
TCEAL6	1.31	0.022793	0.448
TRNAU1AP	1.31	0.022792	0.448
UBR5	1.31	0.022793	0.448
UGT1A10	1.31	0.022792	0.448
ANXA8L2	1.32	0.02181	0.448
ATP11C	1.32	0.029324	0.489
CDK15	1.32	0.02181	0.448
CXCR4	1.32	0.021809	0.448
DNAH1	1.32	0.029323	0.489
GPR34	1.32	0.029324	0.489
HEPACAM2	1.32	0.029323	0.489
HMOX2	1.32	0.02181	0.448
KCNS1	1.32	0.02181	0.448

KIAA0196	1.32	0.021809	0.448
KLHL25	1.32	0.021809	0.448
KLHL5	1.32	0.02181	0.448
PHF2	1.32	0.039513	0.551
RAB25	1.32	0.02181	0.448
RPL26L1	1.32	0.02181	0.448
SSBP1	1.32	0.029323	0.489
ZDHHC16	1.32	0.029323	0.489
ZMYM4	1.32	0.02181	0.448
AKAP5	1.33	0.020881	0.445
KDM6B	1.33	0.028173	0.484
MTF1	1.33	0.028173	0.484
MYADML2	1.33	0.020882	0.445
NDUFA12	1.33	0.020882	0.445
NONO	1.33	0.028174	0.484
OR2B11	1.33	0.028173	0.484
PELI1	1.33	0.020881	0.445
RSPH4A	1.33	0.03813	0.54
TROVE2	1.33	0.020881	0.445
TXNDC11	1.33	0.028173	0.484
ATP7B	1.34	0.020006	0.432
C11orf58	1.34	0.020006	0.432
CCNJ	1.34	0.020006	0.432
DTL	1.34	0.027088	0.484
EIF3A	1.34	0.020007	0.432
FAM13C	1.34	0.020006	0.432
GPALPP1	1.34	0.020006	0.432
GRAMD1A	1.34	0.020006	0.432
MIR1199	1.34	0.020007	0.432
MRPS5	1.34	0.020006	0.432
PIK3R1	1.34	0.020007	0.432
PPP1R15B	1.34	0.020007	0.432
PURG	1.34	0.020006	0.432
SLC39A11	1.34	0.020006	0.432
TAGLN	1.34	0.027087	0.484
THY1	1.34	0.020007	0.432
TRMT10A	1.34	0.020006	0.432
ZNF608	1.34	0.020006	0.432
GLI2	1.35	0.019159	0.429
ISM1	1.35	0.019158	0.429
NME6	1.35	0.019158	0.429
NPSR1	1.35	0.019159	0.429
PLCD3	1.35	0.026025	0.473
PTPLB	1.35	0.019159	0.429
SRPX2	1.35	0.026025	0.473
ST7	1.35	0.019159	0.429
TESK1	1.35	0.019158	0.429

UGT1A9	1.35	0.019159	0.429
WDR43	1.35	0.035487	0.524
CHAD	1.36	0.018346	0.423
EIF3G	1.36	0.025021	0.468
MAML1	1.36	0.018346	0.423
MPZL1	1.36	0.018346	0.423
NDUFA13	1.36	0.025021	0.468
NRIP2	1.36	0.025021	0.468
PCDHGA3	1.36	0.018346	0.423
PEBP4	1.36	0.025021	0.468
PLD3	1.36	0.018347	0.423
UBE2Q2L	1.36	0.090966	0.708
DMTF1	1.37	0.024026	0.46
DPRX	1.37	0.017523	0.413
DTD2	1.37	0.017522	0.413
INTS6	1.37	0.032999	0.51
NT5M	1.37	0.017522	0.413
PCOLCE	1.37	0.024026	0.46
PDCL	1.37	0.017523	0.413
PES1	1.37	0.06326	0.636
PET112	1.37	0.017523	0.413
PPA1	1.37	0.033	0.51
PUM1	1.37	0.017523	0.413
RAB5B	1.37	0.017522	0.413
STK35	1.37	0.017523	0.413
VPS26B	1.37	0.017523	0.413
C19orf43	1.38	0.02308	0.453
ID3	1.38	0.016748	0.404
PKD2L2	1.38	0.016748	0.404
PNPLA2	1.38	0.016748	0.404
RALGPS1	1.38	0.016748	0.404
SIAE	1.38	0.016748	0.404
AATK	1.39	0.016017	0.391
ACACB	1.39	0.016018	0.391
KAT2A	1.39	0.016017	0.391
LGALSL	1.39	0.022154	0.448
NNT	1.39	0.022154	0.448
PDCD11	1.39	0.030681	0.498
PRDM8	1.39	0.016018	0.391
RANBP9	1.39	0.016017	0.391
SLC3A2	1.39	0.016017	0.391
STK3	1.39	0.022154	0.448
TMEM88B	1.39	0.022154	0.448
ZMYND11	1.39	0.016017	0.391
ARHGEF35	1.4	0.029576	0.492
ATP2C2	1.4	0.015338	0.383
BHLHA15	1.4	0.015338	0.383

EGR4	1.4	0.015338	0.383
EPB41L3	1.4	0.021284	0.448
ERG	1.4	0.015338	0.383
FOXRED1	1.4	0.021284	0.448
G0S2	1.4	0.015338	0.383
IER2	1.4	0.021284	0.448
KCNV2	1.4	0.021285	0.448
LRRC8A	1.4	0.015338	0.383
POLR2L	1.4	0.041129	0.558
RAB21	1.4	0.015338	0.383
RBM41	1.4	0.015338	0.383
SSSCA1	1.4	0.015338	0.383
VAX1	1.4	0.015338	0.383
C22orf31	1.41	0.020462	0.44
MAP3K3	1.41	0.014635	0.378
REXO4	1.41	0.014634	0.378
TMEM261	1.41	0.014635	0.378
ATF4	1.42	0.013997	0.367
SLC46A2	1.42	0.013997	0.367
TEX101	1.42	0.013997	0.367
TRHDE	1.42	0.013997	0.367
TTC37	1.42	0.013997	0.367
TYW3	1.42	0.013997	0.367
AQP10	1.43	0.018826	0.429
ATXN3L	1.43	0.01336	0.358
B3GALT6	1.43	0.018826	0.429
CPT1B	1.43	0.01336	0.358
FAM136A	1.43	0.018827	0.429
FLOT2	1.43	0.01336	0.358
NPLOC4	1.43	0.026455	0.48
NXPE3	1.43	0.013359	0.358
POLR2D	1.43	0.018827	0.429
PTS	1.43	0.01336	0.358
RPS25	1.43	0.01336	0.358
CROT	1.44	0.012757	0.349
CRTAP	1.44	0.012756	0.349
EXOSC9	1.44	0.012757	0.349
GJA10	1.44	0.018071	0.421
GNA14	1.44	0.012756	0.349
ING3	1.44	0.012756	0.349
NIPIB8	1.44	0.036066	0.524
RPS29	1.44	0.025472	0.473
UGT1A4	1.44	0.012757	0.349
ZBTB17	1.44	0.018071	0.421
APBB1IP	1.45	0.012193	0.34
DEK	1.45	0.017346	0.413
KAT6A	1.45	0.012193	0.34

LRR1	1.45	0.03487	0.52
PAN3	1.45	0.012193	0.34
PRKCE	1.45	0.012193	0.34
PRRC1	1.45	0.024535	0.468
VPS45	1.45	0.012192	0.34
YBEY	1.45	0.012192	0.34
ZNF117	1.45	0.012193	0.34
CGGBP1	1.46	0.011644	0.334
KRT79	1.46	0.011645	0.334
P4HB	1.46	0.011645	0.334
PHF13	1.46	0.011644	0.334
RAB10	1.46	0.011644	0.334
TBC1D9	1.46	0.011644	0.334
UBE2J1	1.46	0.011645	0.334
MBTD1	1.47	0.015955	0.391
RAB13	1.47	0.011131	0.327
WARS2	1.47	0.011131	0.327
ZBTB37	1.47	0.011131	0.327
ABHD5	1.48	0.015307	0.383
EPC1	1.48	0.010629	0.319
GMEB1	1.48	0.015307	0.383
HIST1H4F	1.48	0.010628	0.319
PPWD1	1.48	0.021896	0.448
TSPAN18	1.48	0.010629	0.319
XPNPEP3	1.48	0.010629	0.319
CELF1	1.49	0.010147	0.309
FAM160B2	1.49	0.014671	0.378
FILIP1	1.49	0.010147	0.309
FPGT	1.49	0.010148	0.309
HAL	1.49	0.010148	0.309
KDM2A	1.49	0.010148	0.309
PPM1G	1.49	0.014671	0.378
PRKACA	1.49	0.010148	0.309
SLC35B2	1.49	0.010148	0.309
SPATA31C1	1.49	0.014671	0.378
ANKRD40	1.5	0.029454	0.49
C8orf86	1.5	0.009688	0.304
KDSR	1.5	0.009688	0.304
XPOT	1.5	0.009688	0.304
C1QBP	1.51	0.009227	0.294
MAP1LC3B	1.51	0.009227	0.294
PRKD2	1.51	0.013466	0.359
PRMT10	1.51	0.009228	0.294
ZEB2	1.51	0.009227	0.294
AGPAT3	1.52	0.008789	0.284
BRPF1	1.52	0.00879	0.284
CHAC2	1.52	0.00879	0.284

CLDN15	1.52	0.012904	0.351
EXOC7	1.52	0.00879	0.284
FAM160A1	1.52	0.00879	0.284
KIAA0947	1.52	0.012904	0.351
PDILT	1.52	0.00879	0.284
SMAP2	1.52	0.008789	0.284
CCDC147	1.53	0.008387	0.279
COPB1	1.53	0.039377	0.55
LPCAT3	1.53	0.008387	0.279
MED13	1.53	0.012367	0.344
PLIN5	1.53	0.008387	0.279
S1PR5	1.53	0.008387	0.279
SNRK	1.53	0.008387	0.279
TET2	1.53	0.008387	0.279
ABHD11	1.54	0.008003	0.271
ACOX1	1.54	0.008003	0.271
BEX5	1.54	0.011855	0.339
HAVCR2	1.54	0.008003	0.271
MID1	1.54	0.008002	0.271
NIIPA7	1.54	0.008003	0.271
NIIPA8	1.54	0.008003	0.271
OR2A14	1.54	0.008003	0.271
PRKAG1	1.54	0.008003	0.271
SMC2	1.54	0.025628	0.473
STARD3NL	1.54	0.008003	0.271
BTNL8	1.55	0.007622	0.267
C2orf49	1.55	0.007623	0.267
CCDC22	1.55	0.007623	0.267
KEL	1.55	0.007623	0.267
OR51G1	1.55	0.007622	0.267
SYVN1	1.55	0.024761	0.468
WRAP73	1.55	0.007623	0.267
ADCK4	1.56	0.010859	0.321
ATXN7L3	1.56	0.01086	0.321
DCAF15	1.56	0.01086	0.321
DDX46	1.56	0.08338	0.7
METTL5	1.56	0.007265	0.265
RAF1	1.56	0.007266	0.265
TFPT	1.56	0.01086	0.321
THRA	1.56	0.007265	0.265
TMEM185A	1.56	0.007265	0.265
C1R	1.57	0.006924	0.258
NT5DC3	1.57	0.006924	0.258
RAB44	1.57	0.015449	0.385
CCDC57	1.58	0.009948	0.309
DLGAP4	1.58	0.006617	0.25
GOLGA6L3	1.58	0.006618	0.25

KLF6	1.58	0.006618	0.25
MLST8	1.58	0.009948	0.309
PPP4R2	1.58	0.009948	0.309
SLPI	1.58	0.006618	0.25
TAF13	1.58	0.006618	0.25
EIF4A3	1.59	0.021508	0.448
MTIF2	1.59	0.00631	0.246
PDIA6	1.59	0.006311	0.246
ZMYND8	1.59	0.009507	0.302
ASXL2	1.6	0.00601	0.237
DNAJB3	1.6	0.00601	0.237
FTSJ2	1.6	0.009091	0.293
TMEM104	1.6	0.013733	0.366
CTDSPL2	1.61	0.005727	0.227
PELP1	1.61	0.020012	0.432
RAB9A	1.61	0.005727	0.227
RPS17	1.61	0.005727	0.227
ZNF181	1.61	0.005727	0.227
CDC73	1.62	0.005455	0.22
HSPA2	1.62	0.005455	0.22
MAP6D1	1.62	0.005455	0.22
ZNF334	1.62	0.005455	0.22
DAZAP1	1.63	0.005189	0.213
HS3ST4	1.63	0.012169	0.34
HYAL4	1.63	0.005188	0.213
DDIT3	1.64	0.007625	0.267
HMGB2	1.64	0.004938	0.204
JAGN1	1.64	0.004938	0.204
MGAT5	1.64	0.004939	0.204
NOTCH2	1.64	0.007625	0.267
OR52N2	1.64	0.004938	0.204
PIKFYVE	1.64	0.004939	0.204
PRPF19	1.64	0.017992	0.421
TCN1	1.64	0.004939	0.204
TMEM139	1.64	0.007624	0.267
UBE3C	1.64	0.004938	0.204
ZCCHC14	1.64	0.004938	0.204
ZNF652	1.64	0.007625	0.267
AGPAT5	1.65	0.007277	0.265
CASP2	1.65	0.004699	0.203
HHLA2	1.65	0.0047	0.203
KRTAP10-6	1.65	0.011237	0.329
PAN2	1.65	0.0047	0.203
PCIF1	1.65	0.004699	0.203
RABL6	1.65	0.004699	0.203
ACOT7	1.66	0.004477	0.2
BTF3	1.66	0.004476	0.2

DLGAP2	1.66	0.004476	0.2
MBOAT7	1.66	0.004477	0.2
AGBL3	1.67	0.004249	0.194
ICT1	1.67	0.004248	0.194
RHOT1	1.67	0.004248	0.194
SERP1	1.67	0.004248	0.194
USP22	1.67	0.004248	0.194
LRRC1	1.68	0.004046	0.19
MPV17L2	1.68	0.004046	0.19
PAPSS1	1.68	0.006366	0.246
VPS29	1.68	0.006366	0.246
AFF4	1.69	0.00385	0.184
MEF2C	1.69	0.006083	0.239
TFCP2	1.69	0.00385	0.184
CLPB	1.7	0.00367	0.18
CMTR1	1.7	0.00367	0.18
NCSTN	1.7	0.00367	0.18
PSEENEN	1.7	0.00367	0.18
AP1M1	1.71	0.00349	0.175
PSMC3	1.71	0.022327	0.448
SF3B3	1.71	0.022327	0.448
SREK1	1.71	0.00349	0.175
UQCC2	1.71	0.008775	0.284
DNTTIP2	1.72	0.003323	0.169
GTPBP8	1.72	0.003323	0.169
HIF3A	1.72	0.003324	0.169
PGAM2	1.72	0.003323	0.169
SMC1B	1.72	0.003324	0.169
GNS	1.73	0.003155	0.167
ASPM	1.74	0.004828	0.204
CTTNBP2NL	1.74	0.002996	0.16
EBF1	1.74	0.004827	0.204
SUV420H1	1.74	0.002996	0.16
ART4	1.75	0.002849	0.154
ASXL1	1.75	0.002849	0.154
GALE	1.75	0.002849	0.154
POLR2G	1.75	0.004602	0.203
SLC9B2	1.75	0.002848	0.154
TLE4	1.75	0.004602	0.203
EIF3L	1.76	0.007105	0.264
MRPS7	1.76	0.004396	0.2
IKZF3	1.77	0.002576	0.144
REXO2	1.77	0.002576	0.144
SS18L2	1.77	0.006805	0.256
USP19	1.77	0.004204	0.194
ZCCHC17	1.77	0.002576	0.144
ABHD3	1.78	0.00401	0.19

CYLD	1.78	0.002439	0.138
POLG2	1.78	0.00244	0.138
RPS17L	1.78	0.006517	0.25
TRRAP	1.78	0.010726	0.321
ZNF592	1.78	0.00401	0.19
COQ6	1.79	0.003827	0.184
IDI1	1.79	0.002311	0.135
INO80E	1.79	0.003826	0.184
PRKAA1	1.79	0.002311	0.135
RFX5	1.79	0.003827	0.184
ZNF628	1.79	0.002311	0.135
BPHL	1.8	0.002193	0.132
POLR2I	1.8	0.002193	0.132
SDR16C5	1.8	0.002193	0.132
TRIM28	1.8	0.002193	0.132
ABCB5	1.82	0.001972	0.124
ANKRD17	1.82	0.001971	0.124
EPC2	1.82	0.003317	0.169
FOXK1	1.82	0.001971	0.124
PCK2	1.82	0.001972	0.124
POP5	1.82	0.003317	0.169
NAA15	1.83	0.003163	0.167
NDRG2	1.83	0.001866	0.121
OTX1	1.83	0.001866	0.121
SLC10A4	1.84	0.001758	0.116
GPR87	1.85	0.001671	0.111
TTC9	1.85	0.001671	0.111
SP1	1.86	0.001583	0.108
METTL1	1.87	0.002599	0.144
TMSB15A	1.87	0.007599	0.267
ZNF644	1.87	0.001499	0.104
UROS	1.88	0.001415	0.1
PTPMT1	1.89	0.002344	0.135
RLBP1	1.89	0.002345	0.135
UBALD2	1.89	0.002344	0.135
TAS2R19	1.9	0.001276	0.091
CDV3	1.91	0.001209	0.087
EMC3	1.91	0.001209	0.087
FTSJ1	1.91	0.00121	0.087
PGAP2	1.91	0.001209	0.087
QRICH1	1.91	0.002132	0.132
STRADA	1.91	0.002132	0.132
TP53TG3D	1.91	0.002133	0.132
C2orf68	1.95	0.00098	0.074
DOK1	1.95	0.00098	0.074
ING5	1.95	0.00098	0.074
CCDC53	1.96	0.00166	0.111

MARCH6	1.96	0.000929	0.072
PSMD3	1.96	0.017759	0.417
ALDH18A1	1.97	0.001576	0.108
LRP1B	1.97	0.000881	0.069
NAGLU	1.97	0.000881	0.069
NRG2	1.97	0.000882	0.069
PACS2	1.98	0.000833	0.066
ACTL6A	1.99	0.002656	0.146
CAPRIN1	1.99	0.000788	0.064
GATA3	1.99	0.000788	0.064
PQBP1	1.99	0.000788	0.064
R3HCC1L	1.99	0.000788	0.064
RPRD2	1.99	0.000788	0.064
GID8	2	0.000747	0.063
MTHFD2	2	0.000747	0.063
HEATR2	2.02	0.001222	0.087
MAT2B	2.02	0.000665	0.057
PDS5A	2.02	0.000665	0.057
B3GALTL	2.03	0.002216	0.133
HERC1	2.03	0.001163	0.087
KIAA1033	2.03	0.000629	0.055
MID1IP1	2.04	0.000597	0.053
PITRM1	2.04	0.000597	0.053
HELLS	2.05	0.000564	0.052
PARN	2.05	0.000564	0.052
XPNPEP1	2.06	0.000532	0.05
RETN	2.08	0.000473	0.045
MAP2K5	2.09	0.000446	0.044
NCBP1	2.09	0.001685	0.112
UBE2G2	2.09	0.000446	0.044
CNBP	2.1	0.000422	0.042
SPAG7	2.11	0.000397	0.04
C10orf12	2.12	0.000373	0.038
MGEA5	2.13	0.000351	0.036
AMD1	2.14	0.000334	0.035
CKS2	2.15	0.000316	0.033
EBAG9	2.15	0.000316	0.033
RNF146	2.15	0.000316	0.033
TXNIP	2.15	0.000316	0.033
UBE2J2	2.15	0.000316	0.033
BEND3	2.16	0.000297	0.033
SMEK1	2.16	0.000297	0.033
UNK	2.16	0.000609	0.054
AGPAT2	2.17	0.000576	0.052
OXSM	2.17	0.000279	0.032
PGRMC2	2.17	0.000576	0.052
STT3A	2.17	0.001176	0.087

FBXO11	2.19	0.000251	0.03
MED13L	2.19	0.000252	0.03
L1TD1	2.2	0.000237	0.029
SLC30A6	2.2	0.000237	0.029
AUP1	2.21	0.000461	0.045
PCBP2	2.22	0.000214	0.027
FLI1	2.23	0.000201	0.025
NFRKB	2.24	0.000191	0.024
RFC1	2.25	0.00339	0.171
ACSL4	2.27	0.000157	0.021
EMC4	2.27	0.000157	0.021
NUP93	2.27	0.001488	0.103
CCT4	2.28	0.001427	0.1
AK6	2.29	0.000304	0.033
SEPHS1	2.29	0.000139	0.019
TAF1	2.29	0.000304	0.033
AGPAT1	2.32	0.000256	0.03
LIPA	2.33	0.00011	0.016
PEX7	2.38	0.000084	0.012
AGPS	2.41	0.000159	0.021
C9orf41	2.42	0.00015	0.02
PDCD5	2.46	0.000048	0.007
PEX10	2.46	0.000118	0.016
VWA9	2.46	0.000118	0.016
INTS12	2.47	0.000044	0.007
KMT2B	2.47	0.000045	0.007
SLC7A1	2.51	0.000516	0.049
PKNOX1	2.52	0.000088	0.013
GCH1	2.55	0.000031	0.005
ZNF668	2.57	0.000028	0.004
ASXL3	2.58	0.000026	0.004
KLF16	2.58	0.000063	0.009
EMC8	2.59	0.000025	0.004
FUBP1	2.59	0.000024	0.004
HNRNPA0	2.59	0.000024	0.004
SMG5	2.59	0.002414	0.138
UCHL5	2.59	0.000025	0.004
TTC14	2.61	0.000022	0.004
PHF20	2.62	0.00002	0.003
PEX19	2.63	0.000019	0.003
HLCS	2.68	0.000037	0.006
ANKRD50	2.74	0.000009	0.001
ACAA1	2.76	0.000008	0.001
CLK3	2.76	0.000008	0.001
PEX14	2.76	0.000008	0.001
PEX5	2.8	0.000006	0.001
RMND5A	2.88	0.000004	0

GID4	2.9	0.000004	0
RPL8	2.9	0.000813	0.065
SLC30A5	2.92	0.000003	0
NSD1	2.93	0.000009	0.001
BRD2	2.94	0.000008	0.001
PTPN1	2.95	0.000008	0.001
PEX26	2.96	0.000007	0.001
PANK4	2.97	0.000002	0
PEX13	2.99	0.000002	0
RRM1	3.01	0.001942	0.124
PEX2	3.02	0.000002	0
TFAP4	3.03	0.000002	0
INSIG1	3.05	0.000004	0
CREBBP	3.08	0.000001	0
INO80C	3.09	0.000001	0
PEX6	3.16	0.000001	0
RER1	3.17	0.000001	0
RPRD1B	3.21	0.000001	0
BPTF	3.22	0.000002	0
EIF4A1	3.3	0.000001	0
RAB7A	3.3	0.000001	0
PEX16	3.31	0.000001	0
UBE2H	3.34	0.000001	0
SREBF1	3.35	0.000001	0
MAEA	3.51	0.000001	0
PEX12	3.56	0.000001	0
PEX1	3.58	0.000001	0
PEX3	3.6	0.000001	0
ACTR5	3.67	0.000001	0
HSD17B12	3.73	0.000001	0
MKLN1	3.74	0.000001	0
C7orf26	3.82	0.000001	0
PIH1D1	3.97	0.000001	0
ASUN	4.14	0.000001	0
INTS10	4.17	0.000001	0
ACSL3	4.22	0.000001	0
ARMC8	4.23	0.000001	0
ACACA	4.26	0.000001	0
FAF2	4.3	0.000001	0
HSP90B1	4.34	0.000001	0
HMGCL	4.47	0.000001	0
FDFT1	4.73	0.000001	0
LDLR	6.08	0.000001	0
ABCD3	6.35	0.000001	0
LDLRAP1	7.19	0.000001	0