

Supplemental Table 1 - Detailed Scoring System

<i>Lifestyle-Score:</i>		<i>Diet score</i>		<i>Physical activity score</i>		<i>Smoking score</i>		<i>Alcohol score</i>			<i>final lifestyle score</i>
FFQ-Code	Score unfavorable foods (a)	Score favorable foods (b)	Category (a)	Score	Smoking Status (a)	Score	sex	Alcohol intake (g/d) (a)	Score		
1-several times per day	3	0	1- low	10	Non-Smoking	0	Female	>10	5	Diet (a+b) + Physical Activity (a+b) + Smoking (a+b) + Alcohol (a+b)	
2-(almost) each day	2	0	2- moderate	5	Previous Smoking	5		<=10	0		
3-several times per week	2	1	3- intense	0	Current Smoking	10	Male	>20	5		
4-once per week	1	1	Quartile (MET-min/week) (b)	Score	Quartile (pack-years) (b)	Score		<=20	0		
5-2-3 times per month	1	2	1th (<=1977)	10	1th (<=3.9208)	0					
6-once or less a month	0	2	2nd - 3rd. (1978-6611)	5	2nd - 3rd. (3.9209 - 24.5279)	5					
7-rather never	0	3	4th (>=6612)	0	4th (>=24.4280)	10					

including: meat incl. chicken; cold cuts/ sausages; roasted/panfried potato products; barbecue, smoked products; preped meals; fast food e.g hamburger, Doener, Bratwurst, Currywurst; sugar sweetened beverages; excluding sweets, chips, butter, cake -> was significant negative correlated with BMI	Fish; fresh/frozen vegetables; canned vegetables; raw vegetables; Whole Grain products; Water consumption; excluding: fruits, grains/corn, pasta/rice -> sign. positive correlated with BMI
---	---

Supplemental Table 2 - Study Characteristics of the subgroups

N=4107 (total cohort)

	Healthy Lifestyle (LS≤5th pct)		Unhealthy Lifestyle (LS≥95th pct)		P-Values (LS 5 th pct vs. LS 95 th pct)		P-Values (Discovery vs. Validation cohort)	
	Discovery cohort	Validation cohort	Discovery cohort	Validation cohort	Discovery cohort	Validation cohort	LS 5 th pct	LS 95 th pct
N	48	113	50	100				
Sex (N: female/male)	36/12	94/19	18/32	35/65	<1x10 ⁻³	<1x10 ⁻¹¹	0.28	0.91
Age (years)	57.6 ± 6.8	57.7 ± 13.3	58.3 ± 5.5	55 ± 10.5	0.56	0.11	0.23	0.01
BMI (kg/m²)	28.48 ± 6.21	27.01 ± 6.13	28.9 ± 6.69	27.22 ± 6.29	0.75	0.81	0.31	0.13
BMI category (N: lean/obese/overweight)	23/-/25	70/-/43	25/-/25	61/-/39	0.99	0.99	0.16	0.2
WHR	0.89 ± 0.08	0.88 ± 0.07	0.98 ± 0.09	0.96 ± 0.1	<1x10 ⁻⁶	<1x10 ⁻⁹	0.82	0.36
Waist circumference (cm)	94.72 ± 15.43	92.31 ± 14.6	103.66 ± 17.28	99.35 ± 17.87	<0.01	<0.01	0.47	0.14
Fasting plasma glucose (mmol/l)	5.60 ± 0.93	5.58 ± 0.86	5.74 ± 0.79	5.62 ± 0.79	0.42	0.69	0.98	0.29
Fasting plasma insulin (pmol/l)	64.98 ± 45.56	61.13 ± 44.6	75.54 ± 46.28	67.31 ± 45.83	0.26	0.32	0.86	0.25
Plasma LDL (mmol/l)	3.30 ± 0.88	3.24 ± 0.89	3.72 ± 0.94	3.5 ± 0.95	<0.05	<0.05	0.97	0.17
Plasma HDL (mmol/l)	1.72 ± 0.41	1.8 ± 0.4	1.51 ± 0.39	1.48 ± 0.39	<0.05	<1x10 ⁻⁷	0.23	0.65
Plasma Apolipoprotein A1 (g/l)	1.75 ± 0.26	1.78 ± 0.26	1.65 ± 0.26	1.62 ± 0.27	<0.05	<1x10 ⁻⁴	0.38	0.56
Plasma Triglycerides (mmol/l)	1.20 ± 0.66	1.1 ± 0.53	1.64 ± 0.91	1.57 ± 1.01	<0.01	<1x10 ⁻⁴	0.69	0.32
Diet Score (range: 3-27)	8.48 ± 2.05	8.5 ± 1.96	14.78 ± 2.99	15.09 ± 3.01	<1x10 ⁻¹⁵	<1x10 ⁻¹⁵	0.72	0.52
PA Score (range: 0-20)	0.63 ± 1.67	0.66 ± 1.7	18 ± 2.86	17.25 ± 3.58	<1x10 ⁻¹⁵	<1x10 ⁻¹⁵	0.9	0.28
Smoking Score (range: 0-20)	0.1 ± 0.72	0.09 ± 0.66	17.5 ± 3.07	17.1 ± 3.03	<1x10 ⁻¹⁵	<1x10 ⁻¹⁵	0.93	0.39
Alcohol Score (range 0-5)	0.1 ± 0.72	0.13 ± 0.81	2.8 ± 2.51	3.05 ± 2.45	<1x10 ⁻⁹	<1x10 ⁻¹⁵	0.81	0.56
LS (range: 3-66)	9.31 ± 1.82	9.39 ± 1.56	53.08 ± 3.97	52.49 ± 3.9	<1x10 ⁻¹⁵	<1x10 ⁻¹⁵	0.89	0.36

Supplemental Table 3 - Self-designed primer sequences

Primer - F2RL3	Id	Sequence	Nt	Tm, °C	%GC
PCR	F1	GGGTTGGGTGTTTATTAGGT	20	59.3	45
PCR	R1	AAACAACCCCAAACCAACAAAAAATCA	28	58.4	32.1
Sequencing	S1	GGGGTTGTAGGTTAATGG	18	46.3	50
Target Polymorphisms	Position4, Position5, Position6				
Sequence to Analyze	GTTGGYGTTG TGGGTGTTGG TTAYGTAGGT ATTTYGGTTG TTTTTTATTA TGTTGTTGAT G				
Primer- RARA	Id	Sequence	Nt	Tm, °C	%GC
PCR	F1	GTGGGGATTAGTGTGAGAA	20	58.4	45
PCR	R1	CCTCCTCCTCTCCAAATTC	19	59.2	52.6
Sequencing	S1	GTTTTTGTGTTAGTTTGGATTTTG	24	44.6	25
Target Polymorphisms	Position8, Position9				
Sequence to Analyze	T TTTYGTTT TAGTTYGTT TTTTTTYGT TTTTTTTAG TTG				

Supplemental Table 4 - All lifestyle specific Differentially Methylated Regions (DMRs)

Chromosome	Start	End	Strand	Number CpGs	Min. smoothed FDR	Max. difference	Mean difference	UCSC RefGene name
chr2	233283010	233286870	*	15	6.97E-34	0.083336995	0.025381192	NA
chr20	57425515	57429025	*	66	3.03E-22	-0.030967824	-0.01054477	GNAS:GNAS-AS1
chr5	190822	192650	*	16	5.22E-22	-0.062761084	-0.017532387	LRRCL4B
chr17	48911141	48913424	*	26	8.70E-22	0.053515215	0.018522989	WFKKN2
chr19	16998493	17001305	*	15	2.99E-21	0.089458236	0.013602103	F2RL3
chr5	373378	374252	*	4	5.36E-21	0.193803612	0.045739382	AHRR
chr17	73823769	73825227	*	7	1.22E-20	-0.062518007	-0.039423523	UNC13D
chr15	90345999	90346923	*	5	1.72E-19	-0.08590341	-0.044563113	ANPEP
chr2	21265912	21268152	*	17	5.76E-17	0.04909301	0.026733677	APOB
chr6	32117379	32123701	*	94	9.47E-15	0.042685712	0.007264093	LOC100507547:PPT2:PPT2-EGFL8:PRRT1
chr6	33047185	33049505	*	21	1.20E-13	0.081605453	0.036098647	HLA-DPA1:HLA-DPBI
chr15	75018065	75020202	*	28	1.07E-12	0.065322172	0.011364887	CYP11A1
chr11	86510915	86512100	*	10	2.27E-12	0.046269909	0.009142299	PRSS23
chr3	194014481	194015171	*	7	3.90E-12	0.050323261	0.033498744	NA
chr3	22412124	22414843	*	10	4.49E-12	-0.091510824	-0.035382375	ZNF385D
chr2	241975035	241976658	*	8	2.10E-11	-0.105742005	-0.03406702	SNED1
chr17	14205803	14208363	*	17	2.27E-11	0.03284975	0.016634777	HS3ST3B1:MGC12916
chr7	157405965	157406737	*	6	9.89E-10	-0.058499659	-0.043422181	PTPRN2
chr22	51065435	51066924	*	12	1.15E-09	0.073242376	0.011650886	ARSA
chr5	143190915	143192588	*	9	1.18E-09	-0.025708177	-0.007025216	HMHB1
chr14	74226931	74228393	*	13	1.24E-09	0.028740317	0.006867855	MIDEAS
chr15	74724562	74725593	*	3	1.68E-09	0.031079017	0.017398248	SEMA7A
chr17	77923971	77925938	*	15	2.44E-09	0.048373823	0.018436176	TBC1D16
chr1	209978796	209980186	*	15	3.50E-09	-0.04349004	-0.017225962	IRF6
chr12	14720100	14722066	*	16	5.75E-09	0.046861936	0.015256198	PLBD1
chr7	27142275	27144302	*	21	1.25E-08	0.077524453	0.020087313	HOXA2
chr7	16505094	16506521	*	9	1.25E-08	-0.058714476	-0.029811065	SOSTDC1
chr6	29648161	29649084	*	21	1.27E-08	0.070683917	0.046436136	ZFP57
chr14	38063480	38065435	*	18	1.32E-08	-0.022699236	-0.003645152	FOXA1
chr8	93114951	93116100	*	12	1.99E-08	0.025333641	0.004089686	RUNXIT1
chr19	1265302	1266391	*	6	2.15E-08	0.027225825	0.011999164	CIRBP
chr11	126172682	126174769	*	22	2.53E-08	0.054425888	0.011486857	DCPS
chr9	130660399	130661175	*	6	3.01E-08	0.036103536	0.019426583	ST6GALNAC6
chr17	80188598	80190154	*	14	3.60E-08	0.025002933	0.007425859	SLC16A3
chr17	201737	203392	*	12	4.44E-08	-0.028894119	-0.012671318	RPH3AL
chr5	369969	370479	*	4	4.63E-08	0.043914978	0.018254492	AHRR
chr1	92946700	92947961	*	6	7.03E-08	0.086788359	0.034577075	GFII
chr5	127872767	127874587	*	19	1.02E-07	-0.021569918	-0.00777935	FBN2
chr6	30411932	30412351	*	4	1.02E-07	-0.04290578	-0.030533181	NA
chr6	170553133	170555276	*	9	1.27E-07	-0.051956784	-0.036130603	NA
chr11	2906981	2908471	*	29	1.29E-07	0.044554642	0.006571949	CDKN1C
chr21	40123882	40124848	*	5	1.53E-07	-0.031761561	-0.003996751	LINC00114
chr10	125754300	125755854	*	7	1.54E-07	-0.035141155	-0.019689501	NA
chr16	8960833	8962449	*	13	1.63E-07	0.048619909	0.013642313	CARHSP1
chr20	642436	645199	*	10	1.87E-07	0.03786731	0.007415128	SCRT2:SRXN1
chr8	145027226	145028886	*	13	2.58E-07	0.038450766	0.015913412	PLEC
chr4	72119734	72120167	*	3	3.19E-07	-0.055549608	-0.040238087	SLC4A4
chr7	71868406	71868494	*	3	3.58E-07	-0.044899983	-0.027707169	CALN1
chr19	44487436	44488612	*	13	3.74E-07	-0.0272612	-0.009932575	ZNF155
chr15	42787188	42788175	*	16	3.83E-07	-0.023238673	-0.010333341	SNAP23
chr17	934534	935884	*	9	3.83E-07	0.064513189	0.028923887	ABR
chr17	45949677	45949878	*	5	4.08E-07	0.050310751	0.037408698	NA
chr2	202483740	202484583	*	11	4.14E-07	0.0332111	0.017443227	C2CD6
chr14	54421010	54422357	*	11	4.31E-07	-0.013493888	-0.005645751	BMP4
chr20	55835831	55836676	*	4	4.51E-07	-0.063006443	-0.048500957	BMP7
chr13	113097140	113097975	*	6	4.75E-07	-0.034031864	-0.020235025	NA
chr2	220298547	220300568	*	16	5.68E-07	0.029972256	0.014405211	SPEG
chr3	113160071	113161177	*	14	6.00E-07	0.041317942	0.02060467	CFAP44
chr15	90734476	90735422	*	4	6.28E-07	-0.033030384	-0.025183655	SEMA4B
chr10	134650068	134650743	*	3	6.29E-07	-0.047021896	-0.023709664	CFAP46
chr7	27168962	27171528	*	30	6.33E-07	-0.048468303	-0.014310035	HOXA3:HOXA4
chr6	30719807	30720484	*	6	6.75E-07	0.046234775	0.014711105	NA
chr1	42384564	42385941	*	6	7.07E-07	-0.05336742	-0.028861179	HIVEP3

chr1	236557165	236559675	*	19	7.23E-07	0.036713329	0.011232273	EDARADD
chr19	58962093	58963245	*	13	7.95E-07	0.011373885	-0.00033706	ZNF324B
chr22	32438947	32439391	*	5	8.14E-07	-0.047100633	-0.03707628	SLC5A1
chr4	25865178	25866396	*	9	8.64E-07	0.026591795	0.000681116	SELL13
chr19	291022	292131	*	10	8.89E-07	-0.042365016	-0.015721467	PLPP2
chr1	31845904	31846873	*	11	9.22E-07	-0.019396018	-0.01123283	FABP3
chr1	111217406	111218554	*	11	9.22E-07	0.043368153	0.008432665	KCNA3
chr3	71803339	71804859	*	13	9.60E-07	0.049593348	0.013082778	EIF4E3;GPR27
chr19	2290843	2291872	*	8	1.09E-06	0.072666047	0.029868422	LINGO3;SPPL2B
chr6	170557102	170558102	*	6	1.14E-06	-0.072104452	-0.043424206	NA
chr12	26110666	26112124	*	14	1.19E-06	-0.048083828	-0.012601935	RASSF8;RASSF8-AS1
chr16	67879671	67880355	*	3	1.35E-06	0.02344066	0.007239904	CENPT;NUTF2
chr7	45002287	45002980	*	4	1.37E-06	-0.081266148	-0.038542708	MYO1G
chr1	44430285	44430921	*	3	1.50E-06	-0.037641367	-0.020745803	DPH2;IPO13
chr10	130830901	130832393	*	10	1.53E-06	-0.027897521	-0.003521773	NA
chr11	2919689	2921176	*	18	1.60E-06	0.037806294	0.008647813	SLC22A18;SLC22A18AS
chr3	27772033	27772805	*	6	1.86E-06	-0.018442432	-0.00791487	NA
chr17	21156233	21157499	*	12	2.24E-06	-0.04791479	-0.01683793	NATD1
chr13	36048892	36051073	*	17	2.77E-06	0.024323249	0.007549083	MIR548F5;NBEA
chr4	163084858	163085697	*	12	2.82E-06	-0.025371373	-0.007312016	FSTL5
chr2	70311984	70313833	*	12	2.92E-06	0.043339587	0.015627619	PCBP1;PCBP1-AS1
chr2	97524719	97525009	*	5	3.49E-06	0.021514418	0.018195091	ANKRD39
chr17	74072957	74074118	*	7	3.92E-06	-0.045261974	-0.018933203	GALR2;SRP68;ZACN
chr1	163037784	163039184	*	16	4.03E-06	-0.056170542	-0.017332549	RGS4
chr12	54954337	54955143	*	6	4.18E-06	-0.040743491	-0.014663833	PDE1B
chr1	169677313	169677921	*	4	4.29E-06	-0.048252248	-0.033327148	C1orf112;SELL
chr6	56111812	56113034	*	9	4.68E-06	-0.043500121	-0.003376419	COL21A1
chr19	52900469	52901639	*	15	4.69E-06	0.030695394	0.006466295	ZNF528
chr16	70837763	70838524	*	3	4.91E-06	-0.060472705	-0.016416531	VAC14
chr8	144659492	144661051	*	15	5.23E-06	-0.036680318	-0.016541779	MROH6;NAPRT
chr6	29691408	29692995	*	24	5.73E-06	0.042327402	0.0101074	HLA-F
chr9	98314632	98316500	*	7	5.79E-06	0.033388563	0.0072153	NA
chr13	46424943	46425929	*	10	5.80E-06	-0.02230238	-0.009327744	SLAH3
chr1	16553267	16554984	*	10	6.05E-06	0.055033991	0.019310538	NA
chr16	68269041	68272111	*	23	6.18E-06	0.032406616	0.010141548	ESRP2
chr10	115438155	115439884	*	17	6.24E-06	-0.012915594	-0.001872104	CASP7
chr16	73099917	73101264	*	6	6.48E-06	0.036219829	0.019478345	NA
chr1	151103642	151105478	*	11	6.64E-06	0.041097211	0.019181781	SEMA6C
chr16	89181807	89182492	*	7	6.68E-06	-0.014045662	-0.008518713	ACSF3
chr15	23809945	23811572	*	14	6.92E-06	-0.040958957	-0.021947534	MIR4508;MKRN3
chr17	19881268	19882222	*	11	7.71E-06	-0.032564313	-0.008843135	AKAP10
chr20	19193824	19194649	*	7	7.84E-06	0.044327931	0.014119857	SLC24A3
chr5	35229788	35231272	*	13	7.87E-06	-0.033615611	-0.010094942	PRLR
chr11	6440065	6441289	*	18	7.95E-06	-0.026093996	-0.006968055	APBB1
chr3	52811637	52814643	*	16	7.98E-06	-0.024849035	-0.006264133	ITIH1
chr6	30710462	30712373	*	50	8.11E-06	-0.024606529	-0.001516747	FLOT1;IER3
chr4	1858231	1858883	*	3	8.51E-06	0.0265421	0.009277285	LETM1
chr1	24644596	24646205	*	18	8.99E-06	-0.017414465	-0.006235379	GRHL3
chr5	171056823	171057575	*	7	9.24E-06	0.042779917	0.036184758	NA
chr4	77723057	77723800	*	6	9.61E-06	0.043653208	0.02407009	NA
chr1	2144244	2145655	*	10	1.00E-05	0.035436851	0.012959788	NA
chr3	137487770	137489312	*	7	1.05E-05	-0.013035861	-0.00184741	NA
chr19	3480363	3480940	*	7	1.23E-05	-0.044442104	-0.029951742	SMIM24
chr16	57672401	57673993	*	9	1.26E-05	-0.027151559	-0.010535734	ADGRG1
chr1	173174650	173176090	*	8	1.29E-05	0.022815842	-0.005139747	TNFSF4
chr8	145637966	145639652	*	9	1.33E-05	-0.034767308	-0.017374327	CPSF1;SLC39A4
chr1	221509067	221509763	*	3	1.35E-05	-0.033078868	-0.019248184	LINC02817
chr4	18320820	18321251	*	4	1.36E-05	-0.0367123	-0.030052878	NA
chr10	8373416	8374526	*	7	1.40E-05	-0.029933056	-0.015724415	NA
chr5	150161299	150163018	*	4	1.47E-05	0.039618192	0.01496976	SMIM3
chr8	144797929	144799376	*	14	1.48E-05	0.052120714	0.005294952	MAPK15
chr3	11643341	11643630	*	5	1.49E-05	-0.031554986	-0.021926198	VGLL4
chr15	80351213	80352558	*	17	1.50E-05	-0.033580546	-0.010891271	ZFAND6
chr10	90984672	90985062	*	3	1.55E-05	0.056039743	0.049841417	LIPA
chr21	46714226	46715205	*	5	1.60E-05	0.043076441	0.029325826	LINC00205
chr16	8805422	8807308	*	16	1.64E-05	0.043713634	0.021425684	ABAT

chr2	201674914	201676437	*	11	1.64E-05	0.019535191	0.004914506	BZW1
chr14	88788343	88789655	*	12	1.67E-05	-0.046389737	-0.01270038	KCNK10
chr16	57519987	57521330	*	11	1.67E-05	-0.030516643	-0.010410076	DOK4
chr1	17766238	17767282	*	6	1.69E-05	0.038734568	0.003420664	RCC2
chr11	122451407	122452135	*	3	1.79E-05	-0.019519126	-0.018405058	NA
chr4	86395989	86396765	*	14	1.80E-05	-0.0456355	-0.010901102	ARHGAP24
chr14	103415458	103416389	*	6	1.86E-05	-0.033035588	-0.01200078	CDC42BPB
chr16	85362963	85363209	*	4	1.89E-05	0.050747768	0.036293171	NA
chr12	25403102	25405280	*	27	1.89E-05	-0.036273988	-0.006882384	KRAS
chr2	66666267	66668012	*	17	1.90E-05	-0.013062251	-0.004328522	MEIS1
chr3	187387189	187388737	*	15	1.90E-05	0.032514942	-0.003041652	SST
chr18	31802071	31803067	*	10	1.90E-05	-0.010405455	-0.003367162	NOLA
chr6	33770212	33772366	*	10	1.96E-05	0.028187791	0.017570121	MLN
chr2	74728623	74730047	*	10	2.14E-05	0.03219169	0.014271859	LBX2;LBX2-AS1
chr13	51417469	51418614	*	12	2.21E-05	0.021033075	0.011508784	DLEU7;DLEU7-AS1
chr6	144385609	144387124	*	19	2.25E-05	0.037719689	0.007680264	PLAGL1
chr19	45909124	45910448	*	16	2.28E-05	-0.019712252	-0.003623939	POLR1G;PPP1R13L
chr6	138893111	138893718	*	6	2.31E-05	-0.055731808	-0.019135165	NHSL1
chr2	225265564	225266960	*	12	2.33E-05	-0.034319444	-0.007677548	FAM124B
chr11	7597402	7598673	*	11	2.33E-05	-0.046259743	-0.015330363	PPFIBP2
chr13	111226725	111228197	*	7	2.41E-05	0.026988571	0.006032595	NA
chr3	29377160	29377980	*	3	2.42E-05	-0.072396235	-0.044645175	RBMS3
chr2	163695111	163696187	*	9	2.42E-05	-0.034103147	-0.012627843	KCNH7
chr13	67802655	67805065	*	18	2.47E-05	-0.041856974	-0.011136684	PCDH9
chr16	85122558	85123778	*	4	2.49E-05	0.023183388	0.007445622	KIAA0513
chr11	123524938	123526191	*	10	2.49E-05	-0.027971925	-0.01005003	SCN3B
chr4	78978133	78979207	*	12	2.50E-05	-0.013011842	-0.002537353	FRAS1
chr20	42142005	42143502	*	29	2.51E-05	-0.023377772	-0.005135601	L3MBTL1
chr17	76354621	76355674	*	7	2.52E-05	0.026202873	0.014668819	SOCS3
chr15	26108391	26109614	*	29	2.68E-05	0.030597334	0.002474212	ATP10A
chr14	77247777	77248049	*	5	2.76E-05	0.057960459	0.024964563	VASH1
chr1	206223701	206224554	*	7	2.80E-05	0.034586699	0.002330489	AVPR1B
chr2	5831370	5834638	*	13	2.87E-05	-0.017964809	-0.006123935	SOX11
chr4	1684739	1686288	*	9	3.03E-05	0.021331166	-0.001925464	FAM53A
chr7	1882776	1883760	*	8	3.04E-05	0.049993213	0.026493461	MADL1;MIR4655
chr7	95025194	95026937	*	24	3.15E-05	-0.036935728	-0.01037563	PONI1;PONI3
chr1	206306094	206307060	*	5	3.35E-05	-0.02217631	-0.011733368	NA
chr2	239139911	239140910	*	9	3.37E-05	-0.041315995	-0.019607737	LINC02610;TARDBPP3
chr5	28809037	28810645	*	9	3.38E-05	0.029227748	0.018034286	NA
chr20	61446962	61447929	*	29	3.41E-05	-0.043058538	-0.008813399	COL9A3
chr6	31124978	31126284	*	18	3.46E-05	0.034615081	0.004886477	CCHCR1;TCF19
chr5	154998	155199	*	4	3.72E-05	0.02708318	0.022363964	PLEKHG4B
chr6	32846924	32847845	*	15	3.84E-05	0.04295651	0.021416406	NA
chr1	150254280	150255880	*	14	3.90E-05	0.023440097	0.004242032	CIART
chr14	81425912	81426577	*	5	4.02E-05	-0.042071672	-0.020653769	CEP128;TSHR
chr5	368394	368843	*	3	4.02E-05	0.037993561	0.024263206	AHRR
chr16	75150456	75150880	*	8	4.07E-05	0.02922422	0.024855109	LDHD
chr19	51774264	51775111	*	7	4.35E-05	0.047437003	0.027961707	NA
chr1	2344426	2346088	*	18	4.42E-05	0.037443726	0.009967219	PEX10
chr14	105858487	105859242	*	3	4.49E-05	0.026954194	0.013512786	PACS2
chr4	81117853	81119473	*	13	4.63E-05	0.033010762	0.016556667	PRDM8
chr4	2469589	2471043	*	16	4.78E-05	0.030932076	0.003766886	RNF4
chr1	161128567	161130207	*	18	4.89E-05	0.016539295	0.002581331	UFCL1;USP21
chr3	147140880	147142415	*	13	5.09E-05	-0.036216608	-0.006263032	NA
chr21	40176506	40177189	*	8	5.09E-05	0.061425153	0.011993308	ETS2
chr8	65289139	65290484	*	9	5.20E-05	-0.01771503	-0.003910066	MIR124-2;MIR124-2HG
chr8	125740425	125741566	*	13	5.22E-05	0.035108003	0.006718675	MTSS1
chr20	62084549	62084833	*	3	5.29E-05	-0.044737322	-0.036569781	KCNQ2
chr9	137978190	137979399	*	9	5.65E-05	-0.047674747	-0.018412699	OLFM1
chr17	79372242	79374741	*	16	5.70E-05	0.03084311	0.005165538	BAHCCI;MIR4740
chr5	93953562	93955080	*	22	5.71E-05	0.023735536	-1.22E-05	KIAA0825;SLF1
chr14	105647194	105648697	*	9	5.73E-05	-0.046422116	-0.006467101	NUDT14
chr9	130639739	130640786	*	12	5.76E-05	0.023422753	0.008904248	AK1
chr21	46492095	46494274	*	9	5.82E-05	0.029405092	0.015206772	ADARB1;SSR4P1
chr1	167486978	167488503	*	8	6.17E-05	-0.028300312	-0.01832827	CD247
chr19	56988398	56990070	*	11	6.26E-05	-0.01931509	-0.008543938	ZNF667;ZNF667-AS1

chr6	133561368	133562776	*	36	6.31E-05	-0.022889036	-0.007741311	EYA4
chr4	184642625	184642971	*	4	6.52E-05	-0.045481251	-0.041666452	NA
chr19	10735474	10736448	*	10	6.69E-05	0.059228868	0.02115741	SLC44A2
chr1	151030968	151031323	*	6	6.70E-05	0.01365323	0.003303866	CDC42SE1;MLLT11
chr1	244093755	244096161	*	7	6.83E-05	0.042486832	0.021756937	LINC02774
chr19	39465821	39467435	*	15	6.98E-05	0.040090757	0.0133187	FBXO17
chr2	46465	47716	*	15	7.06E-05	-0.031984981	-0.010287802	FAM110C
chr7	101555980	101556938	*	8	7.07E-05	-0.028785504	-0.012041203	CUX1
chr5	151150029	151151000	*	7	7.11E-05	0.034637779	0.008132194	G3BP1;LOC100652758
chr15	86315115	86315211	*	3	7.15E-05	-0.025163753	-0.014789066	KLHL25;MIR1276
chr3	46617183	46619131	*	7	7.31E-05	0.041356874	0.023314871	LRRC2;TDGF1
chr14	101348158	101350872	*	26	7.41E-05	0.031945843	0.007365095	MIR127;MIR136;MIR432;MIR433;RTL1
chr16	2770211	2771425	*	10	7.49E-05	-0.019911461	0.003327109	PRSS27
chr5	138610977	138611766	*	5	7.51E-05	0.022103712	0.017628942	MATR3;SNHG4;SNORA74A
chr5	320888	321681	*	3	7.87E-05	0.034529092	0.018014512	AHRR
chr17	7164634	7166281	*	13	7.97E-05	0.031716733	0.00588697	CLDN7
chr10	129947756	129948776	*	5	8.03E-05	0.037336374	0.011429478	NA
chr9	127562983	127563860	*	4	8.57E-05	-0.031605876	-0.018572537	OLFML2A
chr12	52207897	52208899	*	4	8.72E-05	0.050652287	0.024880416	NA
chr18	46064542	46066011	*	12	8.77E-05	0.031447703	0.002393375	CTIF
chr1	241587126	241588176	*	9	9.09E-05	-0.029347452	-0.008692447	NA
chr7	1068125	1068617	*	3	9.09E-05	0.029737783	0.011852922	C7orf50
chr5	2756361	2757802	*	7	9.21E-05	-0.023308448	-0.006578694	IRX2
chr10	126826304	126827067	*	5	9.49E-05	0.0257496	0.012475545	CTBP2
chr10	134818842	134819662	*	6	9.58E-05	-0.022476133	-0.01029761	NA
chr19	51893804	51894617	*	7	0.000100421	-0.031191834	-0.008380595	C19orf84;LIM2
chr1	870791	871546	*	7	0.000105272	-0.04123203	-0.03704767	SAMD11
chr1	41156520	41157828	*	19	0.000105651	0.029825582	0.007139181	NFYC;NFYC-AS1
chr1	17914070	17914803	*	4	0.000108715	0.026048067	0.01395124	ARHGFE10L
chr4	81187906	81189164	*	6	0.000109505	0.021557821	-0.003253121	FGF5
chr1	854766	855649	*	12	0.00010973	0.028847375	0.010133205	LINC02593;SAMD11
chr16	86852700	86853235	*	3	0.000111949	0.03334279	0.025360569	NA
chr7	12443146	12444115	*	13	0.000112584	-0.040342917	-0.013316657	VWDE
chr10	32216031	32217076	*	8	0.000112584	0.040267835	0.017232332	ARHGAP12
chr7	90224886	90226284	*	15	0.000114911	-0.014892696	-0.006255701	CDK14
chr15	90357202	90357992	*	3	0.000114911	0.032193825	0.011920858	ANPEP
chr1	7913081	7914017	*	8	0.000115433	0.041360817	0.015396456	UTS2
chr16	20084851	20085897	*	10	0.00011585	-0.028330612	-0.011299935	GPR139
chr16	19589790	19590554	*	5	0.00011585	-0.031829778	-0.00964568	VPS35L
chr20	57582292	57583709	*	23	0.000116893	-0.02522841	-0.003431385	CTSZ
chr10	135190860	135192232	*	23	0.000118505	0.019245502	0.004220549	ECHS1;PAOX
chr3	39448643	39449544	*	7	0.000118505	0.020986467	0.009770563	RPSA;SNORA6;SNORA62
chr16	86591940	86592652	*	5	0.000120603	0.030177701	0.017433912	MTHFSD
chr19	17932512	17933786	*	4	0.000121474	0.027062086	0.01259964	INSL3
chr20	13975439	13977219	*	19	0.00012181	-0.034659212	-0.008309301	MACROD2;SEL1L2
chr1	153232348	153234037	*	6	0.000122165	-0.024683895	-0.011210561	LORICRIN
chr14	75535155	75537231	*	15	0.000122766	0.032783628	0.006313922	ACYPI;ZC2HC1C
chr7	106685033	106686041	*	4	0.000124229	0.022712205	0.004321165	PRKAR2B
chr1	202310824	202311492	*	9	0.000124539	-0.013354766	-0.009005555	UBE2T
chr17	9549496	9550545	*	8	0.00012745	0.029579632	0.02214183	USP43
chr11	134257744	134258597	*	7	0.000127497	0.032022814	0.013741486	B3GAT1
chr10	134597884	134601490	*	36	0.000128749	-0.033847734	-0.009496988	NKX6-2
chr20	60294656	60295700	*	6	0.000133006	-0.036503079	-0.021734259	CDH4
chr8	626528	627809	*	8	0.000133136	-0.036811151	-0.001020889	ERICH1
chr6	105584149	105585490	*	14	0.00013565	0.022287495	0.002278475	BVES;BVES-AS1
chr10	134062078	134062614	*	4	0.000136013	-0.065198707	-0.025383616	STK32C
chr15	68522181	68523155	*	9	0.000137223	0.031812426	0.008083537	CLN6
chr21	45285836	45287137	*	5	0.0001381	-0.029071257	0.005015512	AGPAT3
chr5	66253919	66255772	*	9	0.000138113	-0.0240886	-0.013670037	MAST4
chr22	22734186	22734960	*	4	0.000139533	0.030406608	0.020591898	NA
chr5	114937535	114938640	*	20	0.000142818	-0.026538675	-0.007442297	TTCAM2;TMED7-TTCAM2
chr1	120255318	120256112	*	5	0.000144926	0.034857844	0.017891977	PHGDH
chr6	31238388	31239411	*	9	0.000146884	0.083070938	0.027268197	HLA-B;HLA-C
chr18	5578880	5579883	*	5	0.000152835	0.033191671	0.014621503	EPB41L3
chr6	33129024	33134325	*	58	0.000154785	0.033770907	0.005219513	COL11A2
chr1	112045871	112047187	*	11	0.000155149	-0.020639596	-0.004721138	ADORA3

chr12	116985025	116986371	*	6	0.000155474	0.022862989	-0.004911984	NA
chr6	31695599	31697280	*	31	0.000155986	0.029841824	0.0078678	DDAH2
chr9	128651435	128652652	*	5	0.000156635	-0.03867689	-0.017219436	PBX3
chr8	53477881	53479270	*	10	0.000157831	-0.017567486	-0.004378815	ALKAL1
chr11	120195717	120197726	*	11	0.000160217	-0.04392879	-0.007934281	TLCD5
chr22	43043757	43044788	*	5	0.000165353	0.030123419	0.010845309	CYB5R3
chr4	154605468	154606177	*	3	0.000167064	-0.010125838	-0.002555729	TLR2
chr20	37359533	37359998	*	5	0.000168468	0.014998284	-0.000250261	NA
chr12	96252066	96253460	*	17	0.00017332	0.025025187	0.003775394	SNRPF
chr11	110296837	110297121	*	3	0.000173999	-0.026077469	-0.019348452	FDX1
chr11	105479967	105481702	*	21	0.000175034	-0.03284956	-0.00537266	GRIA4
chr17	39184318	39184887	*	4	0.000175861	-0.02114592	-0.003619911	KRTAP1-5
chr16	57728173	57729107	*	7	0.000180936	-0.016525388	-0.005604143	DRC7
chr1	4193126	4194412	*	5	0.000182821	0.045352991	0.011953529	NA
chr13	20160420	20161246	*	5	0.000189313	-0.033235785	-0.017244023	NA
chr7	47621223	47622718	*	13	0.000190007	-0.032689411	-0.003829697	TNS3
chr1	25256369	25258332	*	28	0.000190448	0.028004326	0.005341543	RUNX3
chr3	157217187	157218259	*	13	0.000191495	-0.030111865	-0.005979312	VEPH1
chr3	190335248	190336306	*	3	0.000193905	0.050043126	0.022612063	ILIRAP
chr15	54270514	54271167	*	6	0.00019655	-0.011931343	-0.00873434	NA
chr11	62066533	62067691	*	6	0.000196965	-0.036611968	-0.008624026	SCGB1D4
chr6	27635558	27638391	*	10	0.000198319	-0.036731596	-0.015235167	NA
chr12	52416192	52417019	*	8	0.000200914	0.026986798	0.010154109	NRA1
chr18	3593461	3595113	*	12	0.000201864	-0.018586938	-0.00505176	DLGAP1;DLGAP1-AS1
chr17	41607535	41608691	*	10	0.000202573	-0.017493844	-0.008608516	ETV4
chr7	154684051	154685308	*	11	0.000203417	-0.061706642	-0.016884281	DPP6
chr4	646853	648752	*	10	0.000205003	0.023847202	0.004177887	PDE6B
chr1	91190891	91192803	*	17	0.00020892	0.040465997	0.005216748	NA
chr6	29795501	29796614	*	14	0.000209895	0.035645892	0.011489014	HLA-G;HLA-H
chr5	55007918	55008611	*	15	0.000212093	-0.022782406	-0.00139176	SLC38A9
chr18	23713407	23714084	*	12	0.000216217	0.034665837	0.015831814	PSMA8
chr19	294042	295123	*	3	0.0002174	-0.059607734	-0.020105226	PLPP2
chr16	66399746	66400599	*	10	0.000217509	-0.016007606	-0.005211816	CDH5
chr2	19864943	198650603	*	13	0.000218356	0.032360987	0.017045096	BOLL
chr6	32764865	32765402	*	14	0.000218996	-0.019176615	-0.004706811	NA
chr19	2545986	2547067	*	5	0.000220699	0.039449521	0.025499378	GNP7
chr21	47318899	47319633	*	3	0.000221096	0.030652825	0.02060723	PCBP3
chr9	131083986	131085530	*	17	0.000221107	0.01432994	0.000903267	COQ4;TRUB2
chr7	128494060	128494696	*	7	0.000221114	0.020399256	0.010122935	FLNC
chr7	11871535	11872745	*	10	0.000221437	-0.023530295	-0.011878523	THSD7A
chr8	144098507	144099991	*	10	0.000222911	0.030398182	0.007590092	LY6E;LY6E-DT
chr3	141144022	141145231	*	5	0.000224158	0.024502554	0.011413504	ZBTB38
chr14	104190678	104191347	*	5	0.000225457	-0.029846017	-0.015167134	ZFYVE21
chr10	118368264	118368986	*	3	0.000228196	0.052951929	0.023882764	PNLIPRP1
chr2	239628381	239629498	*	8	0.00024027	-0.03387592	-0.004495198	NA
chr2	87018382	87019612	*	10	0.000241695	0.032739607	0.010980554	CD8A;RMND5A
chr1	3527627	3528682	*	12	0.000246624	-0.03869697	-0.010274954	MEGF6
chr12	97300410	97301661	*	18	0.000254566	-0.017893339	-0.002022227	NEDD1
chr14	76393953	76395305	*	3	0.000256606	-0.024986486	-0.015388443	TLL5
chr2	234215396	234216562	*	12	0.000256985	-0.024001473	-0.001558627	SAG
chr5	154230173	154230438	*	5	0.000257683	-0.020356979	-0.016514345	FAXDC2
chr1	9488706	9489434	*	6	0.000258984	-0.032119434	-0.003216566	NA
chr7	99954042	99955101	*	6	0.000260024	-0.024503196	-0.005375218	PILRB
chr10	134150119	134150760	*	11	0.000265669	-0.034855507	-0.022502814	LRR27;STK32C
chr3	128690194	128690824	*	3	0.000270516	-0.033059636	-0.022350841	CFAP92
chr3	57456170	57456332	*	3	0.000276796	-0.032164137	-0.009331308	DNAH12
chr7	99195655	99196468	*	5	0.000279382	0.037262542	0.027025695	TMEM225B
chr7	48129797	48130197	*	5	0.000280212	0.03401411	0.018768199	UPP1
chr3	53700141	53700263	*	3	0.000280372	-0.058166831	-0.052935571	CACNA1D
chr1	15497910	15498551	*	8	0.000280819	-0.029989749	-0.0095017	TMEM51
chr12	50101027	50101564	*	6	0.000286796	-0.021645943	-0.007760641	FMNL3
chr10	130726406	130726701	*	3	0.000287833	-0.066141442	-0.052150296	NA
chr12	8380001	8380472	*	5	0.000300152	-0.050422973	-0.027899437	FAM90A1
chr20	57330819	57331560	*	4	0.00030061	0.029926299	0.010921137	NA
chr13	76334000	76334866	*	7	0.000307843	-0.022534072	-0.014092738	LMO7
chr5	78907212	78908220	*	9	0.000309876	0.037700715	0.002836381	TENT2

chr11	111168594	111169865	*	16	0.000311045	0.029982537	0.008172705	COLCA1;COLCA2
chr22	28838631	28839352	*	6	0.000311181	-0.025119502	-0.012490585	TTC28
chr21	44817305	44817925	*	4	0.000311643	0.023324554	0.01138908	NA
chr4	66535145	66536772	*	22	0.000319586	-0.020787452	-0.004169205	EPHAS5;EPHAS-AS1
chr10	32734072	32735380	*	12	0.000320134	-0.034667622	-0.005100663	NA
chr5	58652602	58652948	*	5	0.00032025	-0.022292049	-0.014118523	PDE4D
chr6	41168185	41169391	*	8	0.000320254	-0.020659643	-0.009098859	TREML2
chr11	14664598	14665355	*	9	0.000322215	0.017409633	0.004557551	PDE3B;PSMA1
chr19	39522548	39523626	*	10	0.000324175	0.057402825	0.016377779	FBXO27
chr17	79503292	79504745	*	7	0.000327711	-0.048760393	-0.01820661	FSCN2
chr6	30227729	30228431	*	21	0.000332709	0.028597343	0.009258622	HCG17;HLA-L
chr14	45722289	45723370	*	13	0.000335526	0.039674063	0.010405464	MIS18BP1
chr20	36887672	36889728	*	14	0.00033646	0.047498146	0.005565349	KIAA1755
chr10	45494806	45496315	*	12	0.00033646	-0.027333317	-0.007106922	ZNF22;ZNF22-AS1
chr3	52351355	52351963	*	6	0.00033646	-0.036266581	-0.026590054	DNAH1
chr8	22551655	22552961	*	5	0.000337975	0.027738985	0.004901147	EGR3
chr1	19600141	19601069	*	8	0.000341046	-0.06660937	-0.024798758	AKR7L
chr12	22590017	22590199	*	3	0.000344944	0.033143664	0.026765701	NA
chr22	17955450	17956641	*	9	0.00035102	-0.029810091	-0.013405531	CECR2
chr14	106320669	106322986	*	16	0.000360271	0.033299459	0.008944743	NA
chr1	19181040	19181419	*	5	0.000364622	-0.058926543	-0.023955871	TAS1R2
chr5	122758260	122759733	*	15	0.000370189	-0.009787065	-0.001935496	CEP120
chr11	124737554	124738157	*	3	0.000370986	-0.01902558	-0.010002799	ROBO3
chr2	5865442	5866470	*	6	0.000374238	-0.016423147	-0.006030566	NA
chr11	67397595	67399029	*	8	0.000382064	0.024149859	0.004114541	NUDT8;FBX10
chr1	228331879	228332502	*	6	0.000385265	-0.02300722	-0.002332885	GJC2;GUK1
chr18	61088726	61090281	*	14	0.00038615	0.03969929	0.002759326	VPS4B
chr15	90292730	90295301	*	15	0.000388913	0.017578186	0.006674648	MESP1
chr16	31020735	31022521	*	11	0.000390745	-0.036779745	-0.011270121	STX1B
chr20	13200685	13201551	*	20	0.000391992	-0.030584912	-0.009123201	ISM1
chr9	139903316	139904151	*	5	0.000391992	0.036193655	0.017082889	ABCA2
chr12	1714851	1715055	*	3	0.00039425	-0.014122334	-0.010087272	WNT5B
chr18	60051870	60052464	*	5	0.000395505	0.046574475	0.029627717	TNFRSF11A
chr4	15780238	15781202	*	7	0.000398091	0.01207384	0.00108881	CD38
chr19	15342548	15343425	*	11	0.000404385	0.039119938	0.003066686	EPHX3
chr2	30144152	30145152	*	11	0.000404786	-0.021706957	-0.007914213	ALK
chr1	76261602	76262984	*	11	0.000408907	0.021269035	0.011926125	MSH4
chr17	78560478	78560916	*	3	0.000410293	-0.036362411	-0.025141258	RPTOR
chr2	70932281	70933416	*	3	0.000411003	0.023046431	0.01777614	ADD2
chr3	184032711	184034132	*	12	0.000412989	0.024601017	0.005632364	E1F4G1
chr2	31043419	31044164	*	4	0.000416625	0.018948289	0.006411771	NA
chr12	56324837	56325736	*	8	0.000419417	0.017118895	0.001686382	DGKA;PYM1
chr2	26205095	26206226	*	10	0.000420039	0.03122348	0.002826659	KIF3C
chr5	601475	602552	*	7	0.000420039	0.037975813	0.018322595	LOC100996325
chr19	14016603	14017658	*	17	0.000424039	0.047036286	0.006884611	BRME1;CC2D1A
chr10	1233675	1234983	*	6	0.000424459	-0.019344463	-0.013603738	ADARB2
chr17	75789279	75790091	*	6	0.000425602	-0.062730633	-0.027130191	NA
chr17	1395371	1396298	*	8	0.000427454	0.022895041	0.012758271	MYO1C
chr11	118965121	118966503	*	11	0.000432059	-0.007526761	0.000393608	H2AX
chr12	133464665	133465592	*	11	0.000435526	0.018522323	0.003241375	CHFR
chr17	25798180	25799447	*	11	0.000436561	0.03118523	0.009225826	KSRI
chr16	1143566	1144264	*	4	0.000436561	-0.031168111	-0.025922075	C1QTNF8
chr2	79738545	79739278	*	6	0.000442101	-0.038082361	-0.019705643	CTNNA2
chr3	139061956	139063360	*	15	0.000446052	0.02870503	0.001779957	MRPS22
chr15	60770518	60771505	*	7	0.000447597	0.010950378	0.004330224	ICE2
chr19	7561739	7562555	*	7	0.000447862	-0.026405691	-0.004542154	TEX45
chr19	14591033	14591345	*	5	0.000447862	0.060416895	0.022290129	GIPCI;PTGER1
chr12	57937334	57937454	*	3	0.000453139	-0.030703708	-0.020096767	DCTN2
chr12	49730687	49731991	*	12	0.000456974	-0.024560412	-0.004428629	C1QL4
chr11	89867385	89868104	*	14	0.000460833	-0.022602513	-0.012644877	NAALAD2
chr11	61322107	61324205	*	10	0.000465828	-0.025875239	-0.011058272	SYT7
chr10	134821210	134822001	*	4	0.000466482	0.037029778	0.019628198	NA
chr4	89978251	89978732	*	7	0.000469395	-0.019984021	-0.012012231	FAM13A
chr2	51254102	51255480	*	8	0.000470423	0.039452789	0.016055119	NRXN1
chr6	3054085	3054884	*	5	0.00047401	0.036223782	0.009189783	NA
chr19	34174345	34175554	*	20	0.000478519	0.031137954	-0.003553191	CHST8

chr6	12749567	12750392	*	5	0.000478547	-0.017271339	-0.009304402	<i>PHACTR1</i>
chr5	399012	400201	*	5	0.000482098	0.049126206	0.007301223	<i>AHRR</i>
chr3	170136159	170137240	*	12	0.00048311	-0.029323869	-0.008881424	<i>CLDN11</i>
chr1	166135963	166136996	*	13	0.000484411	-0.018735143	-0.006653587	<i>FAM78B</i>
chr4	143766602	143768275	*	13	0.000502104	-0.01366675	-0.002303089	<i>INPP4B</i>
chr17	27346732	27347260	*	6	0.000502104	0.021015129	0.012053174	<i>NA</i>
chr6	39196071	39197655	*	10	0.00050486	-0.060702873	-0.007600078	<i>KCNK5</i>
chr2	69968414	69969591	*	14	0.00050489	-0.024876661	-0.004675091	<i>ANXA4</i>
chr6	2999095	3000377	*	14	0.000505326	-0.04187992	-0.009924224	<i>NOO2</i>
chr19	18873037	18873268	*	3	0.00051021	-0.037410649	-0.019601823	<i>CRTC1</i>
chr5	137773712	137775041	*	13	0.00051318	-0.033355837	-0.008444726	<i>REEP2</i>
chr5	140561239	140562562	*	9	0.000513358	-0.041389335	-0.019206295	<i>PCDHB16</i>
chr11	76812596	76813364	*	5	0.000513358	0.015513431	-0.000701572	<i>CAPN5;OMP</i>
chr12	131715734	131715773	*	3	0.000514574	-0.029639655	-0.013332948	<i>NA</i>
chr8	114448659	114450231	*	13	0.000514856	-0.022454211	-0.003267874	<i>CSMD3</i>
chr19	2774149	2775228	*	7	0.000518356	0.019781118	0.009786156	<i>SGTA</i>
chr10	80872926	80873797	*	3	0.000519548	0.02154592	0.016346406	<i>ZMIZ1</i>
chr19	54515169	54515811	*	4	0.000521357	0.038556613	0.028957583	<i>CACNG6</i>
chr9	137966584	137967652	*	12	0.000536331	0.040007977	-0.005899971	<i>OLFM1</i>
chr15	96909816	96911696	*	8	0.000536331	-0.018430334	0.004383319	<i>NA</i>
chr19	36119199	36120543	*	13	0.000546488	-0.034365574	-0.002375933	<i>RBM42</i>
chr1	156163116	156164745	*	14	0.000551725	0.030079344	0.005029138	<i>SLC25A44</i>
chr17	31254544	31255635	*	12	0.000551855	-0.019503513	-0.006941871	<i>TMEM98</i>
chr5	59188112	59188920	*	3	0.000556229	-0.018609487	-0.011957144	<i>PDE4D</i>
chr10	42970351	42971732	*	11	0.000559462	0.046086304	0.014766421	<i>LINC00839</i>
chr3	147122315	147127662	*	48	0.000561928	0.024896442	-0.002428075	<i>ZIC1;ZIC4</i>
chr6	24489671	24491098	*	7	0.000563536	-0.02212257	-0.002654819	<i>ALDH5A1;GPLD1</i>
chr7	19183280	19184555	*	8	0.000564726	-0.015069046	-0.005600899	<i>FERD3L</i>
chr1	153721986	153722548	*	4	0.000578235	-0.027972017	-0.004813206	<i>INTS3</i>
chr6	23177275	23178052	*	5	0.000579664	-0.033928096	-0.015447829	<i>NA</i>
chr19	4769001	4769688	*	13	0.000581882	-0.033152191	-0.006948943	<i>MIR7-3;MIR7-3HG</i>
chr10	45359611	45360313	*	5	0.000585616	-0.043924993	-0.023658541	<i>TMEM72-AS1</i>
chr9	79520919	79521848	*	9	0.00058595	-0.015066451	-0.005738286	<i>PRUNE2</i>
chr19	6534760	6535078	*	5	0.00058806	0.032765919	0.023285074	<i>TNFSF9</i>
chr15	91414499	91416118	*	14	0.000589333	0.021714884	0.003058598	<i>FURIN</i>
chr16	67927351	67928026	*	3	0.000591276	0.028775701	0.008198654	<i>PSKH1</i>
chr3	79067596	79069442	*	15	0.000591688	-0.010080206	-0.003202526	<i>ROBO1</i>
chr2	43385231	43386412	*	3	0.000594763	-0.020551285	-0.012381288	<i>NA</i>
chr1	204485075	204486394	*	12	0.000602934	0.02789188	0.00478865	<i>MDM4</i>
chr11	22648074	22648618	*	3	0.000606323	-0.012292459	-0.006032088	<i>FANCF</i>
chr5	87439075	87441969	*	13	0.000607218	-0.031794017	-0.011509158	<i>NA</i>
chr7	100660212	100660957	*	7	0.000607218	-0.021430735	-0.007445517	<i>MUC12;MUC17</i>
chr4	40631741	40633572	*	14	0.000608679	-0.018608373	-0.00453237	<i>RBM47</i>
chr12	104443742	104444435	*	11	0.000611341	-0.022854032	-0.009642876	<i>GLT8D2</i>
chr16	11680891	11681807	*	10	0.000613977	0.03851188	0.003712217	<i>LITAF</i>
chr11	98890677	98892283	*	15	0.00063029	-0.016930313	-0.003347439	<i>CNTN5</i>
chr6	108444105	108445534	*	9	0.000634718	-0.049399137	-0.0229392	<i>NA</i>
chr7	612458	612876	*	4	0.000637681	0.022717239	0.009844072	<i>PRKAR1B</i>
chr11	45392566	45393309	*	9	0.00065425	-0.023326382	-0.008044389	<i>NA</i>
chr10	22765645	22766320	*	5	0.000656812	0.04159917	0.018739098	<i>NA</i>
chr17	79167630	79167836	*	3	0.000657272	0.014534276	0.010421495	<i>CEP131</i>
chr10	124638200	124639782	*	16	0.000659001	0.037514551	0.01195541	<i>C10orf88B;FAM24B;FAM24B-CUZD1</i>
chr2	220197274	220197989	*	6	0.000661508	-0.055043332	-0.005452407	<i>RESP18</i>
chr11	8228022	8228508	*	3	0.00066326	-0.017385296	-0.009371198	<i>NA</i>
chr10	102760724	102761169	*	3	0.000664826	-0.028191615	-0.010327616	<i>LZTS2</i>
chr17	38472961	38473789	*	6	0.000666195	0.024213115	0.016650312	<i>RARA</i>
chr8	86350278	86351195	*	13	0.000683894	-0.017172481	-0.005738343	<i>CA13;CA3</i>
chr6	17280551	17283113	*	22	0.000687986	0.035383734	0.001714355	<i>RBM24</i>
chr5	40835193	40835760	*	13	0.000694981	0.050906163	0.009644882	<i>RPL37;SNORD72</i>
chr11	32416984	32417943	*	8	0.000694981	-0.031181655	-0.013947304	<i>WT1</i>
chr8	27850178	27850772	*	9	0.000699656	-0.021201063	-0.004145203	<i>SCAR5</i>
chr4	93225565	93226926	*	11	0.000701269	-0.011538745	-0.000415779	<i>GRID2</i>
chr14	29227941	29229249	*	8	0.000705309	-0.018075838	-0.009264715	<i>NA</i>
chr17	75765496	75766979	*	3	0.000710338	0.016183661	0.010082673	<i>NA</i>
chr16	52580266	52581405	*	6	0.000710479	-0.026007606	-0.01035458	<i>TOX3</i>
chr8	143858763	143860090	*	18	0.000713901	-0.037280507	-0.010485788	<i>LYNX1</i>

chr11	2720229	2722713	*	34	0.000714112	0.037415523	0.001689735	KCNQ1;KCNQ1OT1
chr21	38592612	38593284	*	5	0.000717513	0.031533588	0.008430281	DSCR9
chr1	231555522	231556682	*	5	0.000726622	-0.012145046	-0.007223957	EGLN1
chr7	47092529	47093015	*	4	0.000729316	0.035281977	0.019524516	NA
chr1	156072803	156074182	*	4	0.000730077	0.029373395	0.016465183	LMNA
chr20	741723	742683	*	4	0.000732102	0.031621893	0.017702187	SLC52A3
chr9	14315886	14316462	*	4	0.000732239	0.020043851	-0.000247437	NFIB
chr3	24535656	24537801	*	24	0.000733309	-0.023686024	-0.006212508	THRB;THRB-AS1
chr17	41131552	41132971	*	20	0.000733324	-0.019645673	-0.00303426	PTGES3L;PTGES3L-AARSD1;RUNDC1
chr11	118977379	118978508	*	13	0.000735977	-0.022213699	0.000576051	C2CD2L;DPAGT1
chr17	32581466	32582828	*	7	0.000736512	-0.016753906	-0.006260191	CCL2
chr6	30139478	30140713	*	21	0.000738937	-0.045706255	-0.002011705	TRIM15
chr6	28757018	28757569	*	4	0.000748643	-0.056615992	-0.028439213	NA
chr11	2846681	2847778	*	9	0.000749624	-0.017920288	-0.001359011	KCNQ1
chr1	236095453	236096728	*	3	0.000765938	-0.026797394	-0.020264496	NA
chr17	77815779	77816711	*	3	0.000768023	0.014299298	0.00450012	CBX4
chr20	30308956	30310246	*	5	0.000774686	0.023850931	0.01268471	BCL2L1
chr21	27106707	27108257	*	24	0.000775545	-0.024773138	-0.001568793	ATP5PF;GABPA
chr2	127412692	127414108	*	13	0.000776949	0.017273401	-0.004884669	GYPC
chr16	1122630	1123333	*	8	0.000778132	-0.030992002	-0.005361662	SSTR5;SSTR5-AS1
chr8	26370107	26371804	*	13	0.000779955	-0.014244634	-0.004882202	DPYSL2;PNMA2
chr1	10709185	10711695	*	10	0.000780283	-0.044508664	-0.017693263	CASZ1
chr4	57522493	57524770	*	15	0.000782661	-0.063789047	-0.012605333	HOPX
chr11	94134015	94135029	*	13	0.000783861	-0.035156307	-0.006475788	GPR83
chr1	24306751	24307535	*	13	0.000788831	0.020796534	0.000805834	SRSF10
chr19	18721531	18721840	*	3	0.000789944	0.034576462	0.010762236	CRLF1;TMEM59L
chr1	209798721	209799353	*	5	0.000789965	0.035425915	0.013758568	LAMB3;MIR4260
chr8	1892271	1892956	*	3	0.000799484	0.038849557	0.028709949	ARHGEF10
chr11	65149417	65150358	*	13	0.000806563	-0.01853212	-0.006361682	FRMD8;SLC25A45
chr8	74887999	74888597	*	8	0.000815165	0.049786298	0.002635493	ELOC;TMEM70
chr4	125634258	125635220	*	5	0.000819483	-0.030724789	-0.013004097	ANKRD50
chr7	24797102	24798855	*	16	0.000821295	0.026032977	0.009469819	GSDME
chr19	45579378	45580221	*	12	0.000821295	0.015761761	0.005706248	GEMIN7;ZNF296
chr4	1750374	1750476	*	3	0.000821295	-0.027836198	-0.011793796	NA
chr3	73610847	73611772	*	6	0.00082135	-0.026299237	-0.003999428	PDZRN3
chr6	74289464	74290516	*	4	0.000823766	0.037900162	0.011517388	NA
chr12	108634147	108634275	*	3	0.000832001	-0.044564667	-0.039830341	WSCD2
chr22	31002362	31003655	*	16	0.00083475	0.013732547	-0.004230699	PES1;TCN2
chr1	10601389	10601833	*	3	0.000835585	0.023532586	0.004894551	PEX14
chr1	10764512	10764896	*	3	0.000837408	0.033582522	0.022887537	CASZ1
chr4	104640560	104641554	*	11	0.000837719	-0.018311217	-0.00837507	TACR3
chr2	39187533	39188006	*	5	0.000841473	0.019120015	0.011799958	ARHGEF33;LOC375196
chr2	113992694	113994035	*	9	0.000841729	0.061941445	0.045375298	PAX8;PAX8-AS1
chr13	41706227	41708153	*	11	0.000842278	0.021100926	0.004473947	KBTBD6
chr15	51633381	51634583	*	8	0.000849751	-0.018672404	-0.008690056	CYP19A1;GLDN
chr6	16217234	16218436	*	5	0.000852747	-0.061487706	-0.027227531	NA
chr7	27224700	27226329	*	29	0.000853899	-0.029938445	-0.004693521	HOXA10;HOXA10-HOX9;HOXA11;HOXA11-AS
chr16	88547533	88547861	*	4	0.000854763	0.018953167	0.01260916	ZFPM1
chr10	13481846	13482639	*	5	0.000855984	-0.0565927	-0.018909877	BEND7
chr21	46954058	46955202	*	5	0.000860372	-0.018104034	-0.006358256	SLC19A1
chr7	16625747	16626530	*	4	0.000861159	0.04843541	0.028766928	NA
chr14	105131910	105132869	*	7	0.000865208	0.025394202	0.006232595	NA
chr19	58094517	58095659	*	12	0.000871735	-0.020912371	-0.005111715	ZIK1;ZNF416
chr12	11708469	11709857	*	7	0.000874141	0.038211227	0.027815053	LINC01252
chr13	88324169	88325393	*	10	0.000879816	-0.028481997	-0.009883402	MIR4500HG;SLITRK5
chr6	44225648	44226520	*	7	0.000895489	0.024631039	0.008782647	MIR4647;NFKBIE;SLC35B2
chr17	80673675	80675235	*	13	0.000900453	-0.024538089	-0.007619171	FN3KRP
chr19	55013104	55013954	*	7	0.000906925	-0.063000923	-0.01789148	LAIR2
chr11	132662455	132662963	*	4	0.000910498	-0.05680831	-0.04346194	OPCML
chr1	156785998	156786723	*	9	0.000911622	-0.013890847	-0.005840457	NTRK1;SH2D2A
chr10	20104935	20106089	*	11	0.000920541	-0.016880873	-0.005051467	PLXDC2
chr10	135333451	135334122	*	7	0.000932104	-0.030406849	-0.01169644	SCART1
chr12	88973398	88974665	*	15	0.000935756	-0.01784291	-0.005234392	KITLG
chr22	30783074	30783995	*	10	0.000942649	0.052337058	0.007572036	RNF215
chr1	113050539	113051171	*	6	0.000943142	-0.025157841	-0.001779789	WNT2B
chr17	39890994	39892088	*	10	0.000947299	0.041552653	0.003729327	HAP1;JUP

chr17	80407031	80407779	*	8	0.000949888	-0.020627146	-0.00917125	CYBC1
chr4	567537	568514	*	4	0.000950617	0.041275476	0.003639563	NA
chr21	38069950	38071688	*	16	0.000953731	0.021229181	-0.000128521	SIM2
chr22	37750979	37751263	*	3	0.000953731	0.030526302	0.012017073	NA
chr18	76737888	76739120	*	10	0.000956068	-0.016549733	0.000863223	SALL3
chr21	46964226	46965042	*	7	0.000957846	0.026996098	0.014346153	SLC19A1
chr7	2701419	2701802	*	5	0.000958546	0.023847904	0.018044774	TTYH3
chr21	37535372	37536685	*	6	0.000971828	-0.024207539	-0.00725457	DOP1B
chr20	44033595	44034880	*	11	0.000972305	-0.017035984	-0.002586978	DBNDD2;SYS1-DBNDD2
chr11	5601832	5602123	*	4	0.000972305	0.020058328	0.003913098	HBG2;ORS2B6
chr2	240144335	240146162	*	5	0.000974161	-0.037821177	-0.016658897	HDAC4
chr20	24973741	24974513	*	5	0.000983512	-0.036118008	-0.012736438	APMAP
chr7	26577897	26579614	*	4	0.0009843	0.039505487	0.017221517	KIAA0087
chr2	231732669	231734563	*	4	0.000987439	0.026573189	0.018527269	ITM2C
chr11	32451461	32452839	*	12	0.000991826	0.033253902	0.012720579	WT1;WT1-AS
chr6	150070030	150070714	*	7	0.000995221	0.025910051	0.013885763	NUP43;PCMT1
chr9	36738765	36739781	*	3	0.000995931	0.055219178	0.013379297	NA
chr7	157293538	157294502	*	8	0.000998853	0.027641831	0.012027103	NA
chr7	157646656	157647847	*	8	0.000999166	-0.01609246	-0.004916435	PTPRN2;PTPRN2-AS1
chr11	395625	397613	*	10	0.001006634	-0.046696286	-0.015557992	PKP3
chr16	86011615	86012573	*	7	0.00103007	-0.021833811	-0.010327177	NA
chr1	230777617	230778096	*	9	0.001031865	0.035740382	0.006389871	COG2
chr4	7647940	7649606	*	6	0.001040855	-0.023011845	-0.011349352	SORCS2
chr6	79942971	79944186	*	7	0.001054169	-0.033369975	-0.005076281	HMGN3;HMGN3-AS1
chr1	24068409	24069431	*	3	0.001054857	-0.011953978	0.001020018	ELOA
chr1	211652276	211652741	*	4	0.00105994	-0.034379165	-0.025102059	RD3
chr19	36605252	36606395	*	11	0.001061633	-0.008023807	-0.001825627	POLR2I;TBCB
chr13	103451435	103452789	*	11	0.001063289	0.006697712	0.000343421	BIVM;POGLUT2
chr6	166401018	166402753	*	15	0.001064916	0.014490969	-0.002056443	LINC00473;LINC00602
chr15	98835851	98837004	*	12	0.001065657	-0.045740832	-0.004786884	NA
chr3	29684415	29685093	*	4	0.001065676	0.016812773	0.004101501	RBMS3
chr11	62344463	62344975	*	4	0.001069117	-0.035385689	-0.010370736	EEF1G;TUT1
chr19	10697690	10698384	*	9	0.001073297	0.037036472	0.017250281	AP1M2
chr8	21988724	21989531	*	7	0.0010764	0.028915505	0.01268217	HR
chr6	33091111	33093109	*	18	0.001083282	0.047375752	0.016131642	HLA-DPB2
chr2	25427064	25427652	*	6	0.001087026	0.055378249	0.023803618	NA
chr20	36530296	36531652	*	9	0.001090013	-0.027896621	-0.006564957	VSTM2L
chr11	831584	832821	*	8	0.001096431	0.025008241	0.013662566	CD151;CRACR2B
chr4	187125413	187126139	*	5	0.001096431	-0.066502552	-0.035990704	CYP4V2
chr20	17943403	17944845	*	5	0.00109867	0.028650722	0.020529128	MGME1;SNORD17;SNX5
chr6	74018833	74020214	*	11	0.001100890	-0.027118781	0.000223751	KHDC1
chr14	73392648	73394847	*	16	0.001107905	-0.009880076	-0.000674173	DCAF4
chr10	45420821	45420996	*	3	0.001114226	-0.021061918	-0.016227622	TMEM72;TMEM72-AS1
chr11	107729479	107730551	*	13	0.001115086	-0.026364397	-0.005983208	SLC35F2
chr19	5977966	5978790	*	13	0.001115294	0.013209846	0.000540521	LOC100128568;RANBP3
chr1	158323482	158324471	*	4	0.00112526	-0.038792614	-0.010712967	CD1E
chr10	134120448	134121712	*	11	0.001133681	-0.026046493	-0.010343345	STK32C
chr5	149682233	149683334	*	9	0.001142194	0.020403494	0.000570528	ARSI
chr12	58011837	58013942	*	25	0.001143213	0.029880483	0.007266215	SLC26A10
chr2	139227577	139228296	*	3	0.001145729	-0.021559485	-0.012391821	NA
chr10	134790769	134791702	*	10	0.001145806	-0.038785181	-0.008015715	NA
chr2	160568689	160569678	*	15	0.00114636	-0.013081032	-0.001727972	BAZ2B;MARCHF7
chr2	109236744	109237735	*	5	0.001150743	-0.017785832	-0.01035518	LIMS1
chr12	6304557	6305192	*	6	0.001152773	0.019244685	0.008644464	CD9
chr2	88751158	88752836	*	13	0.001158827	0.01510685	0.002348803	FOXI3
chr4	38868940	38869779	*	15	0.001159377	0.027098787	0.002022644	FAM114A1;MIRS74
chr14	104689833	104690882	*	8	0.001171434	-0.026021956	-0.011112631	NA
chr13	27745469	27746386	*	8	0.001172328	-0.033932047	-0.019386387	USP12
chr8	144371144	144372051	*	6	0.001172935	-0.071497867	-0.036936233	ZNF696
chr2	237088462	237088919	*	3	0.001173569	-0.017304328	-0.007724607	NA
chr16	31453406	31453948	*	4	0.001177932	0.035975484	0.017726073	ZNF843
chr7	56118783	56119637	*	13	0.001201086	-0.012211372	-0.000673288	CCT6A;PSPH
chr5	134180705	134182149	*	17	0.001207346	-0.032369198	-0.003829447	CSorf24
chr17	8868480	8869105	*	7	0.001213949	0.020847074	0.002316089	PIK3R5
chr12	12244945	12245710	*	3	0.001215218	0.021706417	0.019686609	BCL2L14;ETV6
chr19	54023732	54024435	*	13	0.001218854	0.026542812	-0.002301372	ZNF331

chr6	33286790	33291586	*	82	0.001225115	0.027356203	0.000560634	DAXX;TAPBP;ZBTB22
chr5	138677941	138678409	*	6	0.00122757	0.008353825	0.000815906	PAIP2
chr1	239549600	239550303	*	8	0.001229438	-0.030378547	-0.009534189	CHRM3
chr6	28554680	28558113	*	46	0.001239757	0.029802419	-0.00256156	ZBED9
chr22	42760647	42761604	*	3	0.001243829	0.036936544	0.0237581	NA
chr18	57564897	57567904	*	15	0.001258001	0.038742877	0.010357053	PMAIP1
chr15	37190548	37190998	*	5	0.001263864	0.037662564	0.007987883	MEIS2
chr14	105885531	105886413	*	11	0.001264752	-0.048467194	-0.019077462	MTA1
chr12	131355340	131355834	*	4	0.001274759	0.027834386	0.013772385	RAN
chr5	175199915	175200576	*	7	0.001275615	-0.023111889	-0.005896828	NA
chr5	176078832	176080248	*	3	0.001275889	0.027745226	0.001618539	TSPAN17
chr18	2906750	2907472	*	5	0.001279917	0.031357207	0.006291905	EMILIN2
chr22	23160841	23161379	*	4	0.001280756	-0.020049758	-0.008668635	MIR650
chr4	69312514	69313197	*	4	0.001281881	-0.034626374	-0.019901022	TMPPRSS11E
chr7	93550752	93551275	*	9	0.001282922	-0.033764932	-0.010267093	GNG11
chr9	137660514	137660670	*	3	0.001284006	0.023383445	0.021074213	COL5A1
chr9	72590778	72591441	*	3	0.001288771	-0.030377706	-0.013991823	NA
chr8	6481431	6481608	*	3	0.001290472	-0.029215522	-0.020241091	MCPH1
chr7	27154537	27155974	*	15	0.001292215	0.022863442	0.011427176	HOXA3
chr7	101558597	101559888	*	12	0.001297644	0.023195459	0.006939638	CUX1
chr17	1636606	1637391	*	5	0.001298066	0.024814602	0.013645962	WDR81
chr3	9773022	9773672	*	6	0.001304477	-0.013933117	-0.004403431	BRPF1
chr19	55692003	55693151	*	5	0.001305888	-0.026908816	-0.013530483	PTPRH;SYT5
chr1	151300083	151300904	*	12	0.001305974	-0.025611129	0.003594664	PI4KB
chr15	96873850	96875830	*	17	0.001309999	0.026841369	0.000392263	MIR1469;NR2F2;NR2F2-AS1
chr1	16810670	16810776	*	3	0.001316166	0.024345007	0.018648435	CROCCP3
chr16	85427738	85429035	*	5	0.001316604	-0.020216305	0.00694872	NA
chr14	100068637	100070564	*	8	0.001329002	0.029627901	0.007990615	CCDC55C
chr7	42276810	42277410	*	14	0.001334893	-0.01210334	-0.000623711	GLI3
chr22	42679444	42679804	*	3	0.001337524	0.016926656	0.004895865	NA
chr17	48636344	48638703	*	31	0.001367276	0.023475186	0.000440425	CACNA1G;CACNA1G-AS1
chr5	87962828	87963592	*	7	0.001368533	-0.015188806	-0.006889104	LINC00461;MIR9-2
chr3	100053070	100053950	*	12	0.00137738	0.015249742	0.002788108	NIT2
chr1	25298480	25298996	*	3	0.00137738	0.020902881	0.007513939	NA
chr15	83875649	83877135	*	10	0.001379053	-0.018497447	-0.003474607	HDGFL3
chr5	6581774	6583103	*	6	0.001381004	0.034805846	0.009015501	LINC01018
chr4	47032325	47034181	*	15	0.001402297	0.031977604	-0.001004205	GABRB1
chr10	106087985	106090233	*	9	0.001402297	0.015214316	-0.000996205	ITPRIP
chr2	46842958	46843974	*	6	0.001405619	-0.00716525	-0.004107562	CRIP1;PIGF
chr5	16179012	16180419	*	16	0.001410583	-0.032320596	-0.009558192	MARCHF11
chr15	42119684	42120681	*	11	0.001423591	-0.025398299	-0.004156506	JMJD7;JMJD7-PLA2G4B;MAPKBP1
chr6	147091024	147092242	*	6	0.001423924	-0.025593086	-0.008996488	ADGB
chr9	29212927	29213880	*	6	0.001427796	-0.0131879	-0.007715192	LINGO2
chr5	1122753	1123154	*	5	0.001436365	0.013853369	0.008719538	NA
chr10	13204003	13204696	*	4	0.001444987	0.018982896	0.006916943	MCM10
chr17	37894014	37895886	*	15	0.001448588	-0.01811323	-0.008984902	GRB7
chr1	93544497	93545831	*	10	0.001451341	-0.014148012	-0.004787773	MTF2
chr1	44399069	44401857	*	18	0.001451911	-0.026521447	0.008123908	ARTN
chr8	145741413	145742229	*	4	0.001467437	0.021325001	0.007023465	LRRC14;RECQL4
chr13	93878969	93879769	*	9	0.001477141	-0.032477191	-0.0083831	GPC6
chr7	96745696	96746356	*	3	0.001479667	-0.019961465	-0.002158568	SDHAF3
chr17	75312165	75313094	*	3	0.001482685	0.025849835	0.019177638	SEPTIN9
chr2	191878553	191879164	*	12	0.001487264	0.0152448	-0.00036927	STAT1
chr14	61787418	61788345	*	10	0.001487712	0.03249313	0.002694686	PRKCH
chr9	139948584	139949577	*	6	0.001493464	0.029443476	0.016095408	ENTPD2
chr10	14050455	14052028	*	13	0.001494974	-0.044029766	-0.021908018	FRMD4A
chr3	101659630	101660066	*	3	0.001498735	-0.02755122	-0.015724231	LINC02085
chr9	136131118	136131739	*	5	0.001505786	0.051422145	0.02753718	ABO
chr2	154335184	154336401	*	16	0.001509489	0.023211292	-0.00291657	RFRM
chr19	1961017	1961727	*	5	0.001509975	0.017442637	0.0038546	CSNK1G2
chr17	56494554	56495283	*	5	0.001517257	0.021633284	0.002320314	RNF43
chr14	94423111	94424707	*	11	0.001518808	0.016768262	0.007320827	ASB2
chr20	43378953	43379501	*	4	0.001523403	0.042853919	0.019362778	KCNK15
chr10	89418800	89420794	*	21	0.001536325	0.017637988	0.001323591	PAPSS2
chr12	82152229	82153290	*	16	0.001537432	-0.019133772	-0.006135226	PPPIA2
chr6	30921592	30922043	*	3	0.001549836	-0.023278441	-0.008317013	MUCL3

chr19	8273505	8274513	*	14	0.001553649	0.046528163	-0.001281061	CERS4
chr9	118501557	118502187	*	4	0.001575491	-0.0269065	-0.010760915	NA
chr12	46766294	46767289	*	9	0.001578568	-0.035647562	-0.008626276	SLC38A2
chr6	53409850	53411302	*	12	0.001593751	0.024079034	0.002392635	GCLC
chr17	75032801	75033339	*	4	0.001595194	-0.028149271	-0.015545895	NA
chr17	79419366	79420424	*	8	0.001596361	0.02692046	0.005255553	BAHCC1:MIR3186
chr12	93835624	93837247	*	14	0.001596521	0.016902058	-0.001279427	UBE2N
chr1	95006977	95008479	*	14	0.001608691	-0.00959042	-0.00283054	F3
chr14	21904906	21906134	*	11	0.001609326	-0.029542926	-0.003695314	CHD8
chr5	176559334	176560265	*	5	0.001614716	0.056127848	0.026537036	NSD1
chr9	110249749	110251983	*	8	0.001617123	0.057637292	0.002536416	KLF4
chr6	26757644	26758395	*	5	0.001619249	-0.024645574	-0.0121179607	NA
chr1	15911089	15912213	*	6	0.001619647	0.023487292	0.007224177	AGMAT:DNAJC16
chr3	49044317	49045655	*	17	0.001625916	-0.017586949	-0.001226223	P4HTM:WDR6
chr12	62860029	62861114	*	13	0.001631822	0.023325101	0.001269795	MON2
chr11	32455025	32456069	*	8	0.001631963	0.018591561	0.005218232	WT1:WT1-AS
chr3	3151899	3152916	*	6	0.001633743	0.024883609	0.01494043	IL5RA
chr1	1196457	1196747	*	3	0.001633743	0.031056586	0.024331172	UBE2J2
chr17	45898841	45899862	*	5	0.00163778	-0.031609939	-0.012393574	OSBP17
chr2	220309434	220310232	*	6	0.001640571	0.027809589	0.012258057	SPEG
chr14	77294264	77294668	*	6	0.001641333	0.03673689	0.015265484	LRRC74A
chr22	25335346	25336286	*	7	0.00164324	0.027360826	0.013605334	TMEM211
chr19	14042840	14044197	*	5	0.001643745	0.025197453	0.014965996	PODNL1
chr9	34457129	34457500	*	4	0.001650191	0.024125919	0.014177018	DNAI1:FAM219A
chr12	31078790	31079406	*	6	0.001653025	0.029885518	0.012355804	TSPAN11
chr1	203097234	203098085	*	9	0.001656603	0.02191387	0.00237419	ADORA1
chr10	102802857	102803372	*	3	0.001657103	-0.021046521	-0.007257224	NA
chr18	44789949	44790841	*	4	0.00165769	-0.018705209	-0.012823761	NA
chr1	144995682	144996395	*	5	0.001658409	0.022945495	0.006870187	LOC653513:NBPF20:NBPF9:PDE4DIP
chr4	40057241	40059856	*	16	0.001659595	-0.018024138	-0.001895048	LOC344967:N4BP2
chr7	134001087	134002746	*	15	0.001672749	0.023826338	0.00546195	SLC35B4
chr17	67956864	67957967	*	6	0.001672749	0.021708101	0.005600788	NA
chr17	4079262	4079652	*	4	0.001673176	-0.025706732	-0.019608484	ANKFY1
chr10	44806558	44807790	*	4	0.001673176	-0.02871397	-0.000932264	NA
chr3	72226488	72227063	*	4	0.001683016	-0.015186459	-0.010933012	NA
chr17	8056492	8057770	*	5	0.001689885	0.011018108	-0.004197997	PER1
chr18	35145353	35147826	*	33	0.001705993	-0.014986158	-0.002899966	CELF4
chr14	104345945	104347395	*	8	0.001705993	-0.013490287	-0.009428986	NA
chr17	1956958	1958412	*	43	0.001708721	0.03306885	-0.000104482	HIC1:MIR132:MIR212
chr8	81397601	81397789	*	8	0.001723976	-0.054975521	-0.006407738	ZBTB10
chr2	233246431	233246922	*	3	0.001726458	0.030341555	0.015183595	ALPP
chr12	55725479	55725991	*	3	0.001729257	-0.024683619	-0.004299554	OR6C3
chr4	5990590	5991345	*	3	0.001733878	-0.022500876	-0.002396878	NA
chr19	821008	821565	*	3	0.001735153	0.011293175	-0.001341386	PLPPR3
chr2	3583570	3583963	*	3	0.001739438	0.042614949	0.028889713	NA
chr16	90014962	90016004	*	8	0.001744822	-0.035935663	-0.010793873	DEF8
chr16	66864375	66865626	*	10	0.001759419	0.02062426	0.00322204	NAE1
chr12	132862024	132864302	*	13	0.001761153	-0.028028171	-0.009101604	GALNT9
chr6	169283989	169285077	*	8	0.001768339	-0.020415524	-0.00712826	NA
chr10	79470169	79471118	*	5	0.001770193	-0.03242905	-0.009254766	NA
chr7	4874285	4875094	*	8	0.001771121	0.030261248	0.013438089	RADIL
chr17	8012578	8013680	*	7	0.001775189	0.035183856	0.012560198	ALOXE3
chr7	27212357	27214296	*	16	0.001775537	-0.021311528	-0.005447165	HOXA10:HOXA10-HOXA9:MIR196B
chr7	94537347	94538408	*	11	0.001791448	-0.011133411	-0.005388318	PPP1R9A
chr19	18509358	18509973	*	3	0.001794452	0.035514416	0.018624529	LRRC25
chr4	38320637	38321262	*	6	0.001796136	-0.02854387	-0.010766883	NA
chr13	112986575	112986978	*	5	0.001796539	-0.041779157	-0.024121189	NA
chr1	3055958	3057366	*	9	0.001804373	0.020664683	0.005501721	PRDM16
chr12	72148251	72148853	*	10	0.001813365	0.025588069	0.005172765	RAB21
chr5	125758447	125759291	*	10	0.001813753	-0.027522875	-0.004059729	GRAMD2B
chr12	113435438	113435980	*	3	0.001813939	0.020544215	0.011406856	OAS2
chr16	15950840	15951230	*	6	0.001819587	-0.024353188	-0.011937474	MYH11
chr21	45704786	45706101	*	15	0.001833905	0.031807159	0.014942939	AIRE
chr5	162992841	162993262	*	4	0.001838945	-0.035203229	-0.012247702	NA
chr19	42893103	42894930	*	10	0.001845255	-0.030957719	-0.011439214	CNFN
chr17	48919431	48920013	*	3	0.001847995	0.014834621	0.004832951	WFKKN2

chr16	11723154	11724177	*	4	0.00185391	-0.02269908	-0.009767469	NA
chr17	19771360	19772219	*	8	0.001854711	0.030285478	0.019618289	ULK2
chr4	83719449	83720629	*	13	0.001855182	-0.023681092	-0.00424157	SCD5
chr2	33359059	33359688	*	11	0.001857956	-0.019741601	-0.009779196	LTBP1
chr16	3077878	3078339	*	3	0.001862066	-0.032272445	-0.010628251	BICDL2;HCFC1R1;LOC100128770
chr2	87015813	87016720	*	5	0.001862268	0.028867244	0.011640561	CD8A;RMND5A
chr19	38746538	38747292	*	11	0.001866052	0.026700623	0.00354262	PPP1R14A
chr11	117051786	117052397	*	4	0.001868138	0.026538725	0.013677999	SIDT2
chr6	111195301	111195976	*	9	0.001869621	-0.0198758	-0.003120012	AMD1
chr1	166049757	166050477	*	4	0.001873085	-0.019806324	-0.010875808	FAM78B
chr6	10382800	10384104	*	11	0.001876906	0.019557683	0.002960429	NA
chr2	99438903	99439997	*	5	0.00188014	0.028433128	0.014629671	CRACDL
chr3	46447826	46449636	*	16	0.00188161	-0.021152345	-0.008087392	CCRL2
chr13	79968174	79968324	*	3	0.00188161	0.030954006	0.025576944	RBM26
chr19	17597326	17597999	*	6	0.001883248	0.024119923	0.014178865	SLC27A1
chr10	21462441	21463858	*	14	0.001885716	-0.025010992	-0.004239047	NEBL;NEBL-AS1
chr6	30034178	30035234	*	18	0.001891411	-0.022309277	-0.002815436	PPP1R11;ZNRD1ASP
chr14	38724255	38724945	*	5	0.001893092	-0.019270199	-0.00806063	CLEC14A
chr5	1227968	1229127	*	5	0.001896877	-0.036923904	-0.020921319	SLC6A18
chr13	23412250	23412996	*	5	0.001901717	0.072909861	0.033717308	NA
chr6	18264287	18265299	*	10	0.001909447	-0.011031212	-0.001202153	DEK
chr6	166756218	166756786	*	4	0.001916828	-0.021172873	-0.008189349	LOC100289495;SFT2D1
chr8	144654887	144655679	*	12	0.001918556	-0.021980872	-0.007948344	MROH6
chr4	177713813	177715040	*	3	0.0019275	-0.036556656	-0.011819533	VEGFC
chr22	50523686	50524691	*	16	0.001930317	-0.014395262	-0.005846096	MLC1;MOV10L1
chr21	45883590	45883864	*	3	0.001933051	0.028632212	0.022825889	NA
chr8	11659497	11660968	*	19	0.001941171	0.014286871	0.003771144	FDFT1
chr6	31465344	31466722	*	19	0.001943742	-0.009114639	0.000120115	MICB
chr9	18473902	18474243	*	5	0.001953826	-0.015461528	-0.008448963	ADAMTSL1
chr13	77460298	77461426	*	15	0.001955796	0.027568702	0.00233776	KCTD12
chr5	115962086	115962584	*	3	0.001955796	-0.030048851	-0.020849584	NA
chr3	157260159	157261595	*	14	0.001960872	-0.015101293	-0.004041874	SLC66A1L
chr5	405488	406046	*	4	0.001960872	-0.014948132	-0.012431706	AHRR
chr5	132165899	132167026	*	7	0.00196805	0.028721424	0.007599446	SHROOM1
chr19	42873162	42873953	*	8	0.001968404	0.020772949	0.006764882	MEGF8
chr4	726697	728041	*	5	0.001976337	-0.028484602	-0.00594751	PCGF3
chr15	31617459	31617764	*	5	0.001978069	0.020956114	0.008706541	KLF13
chr7	81399587	81400745	*	7	0.001990593	-0.023259981	-0.008174373	HGF
chr16	84327245	84328719	*	13	0.001995557	0.010429461	-0.002089963	WFDC1
chr17	79817963	79819480	*	14	0.00199577	0.013150084	0.000374261	P4HB
chr6	4950308	4950673	*	3	0.00199577	-0.013629816	0.001267095	CDYL
chr12	132905611	132906443	*	9	0.001997496	-0.022063648	-0.012362503	GALNT9
chr2	26726190	26726995	*	5	0.002002139	0.011568411	0.00434033	OTOF
chr15	39873060	39874413	*	10	0.002005729	0.021650459	0.00216734	THBS1
chr20	45141911	45142576	*	9	0.002008233	-0.019176722	-0.006172155	ZNF334
chr7	2082255	2083583	*	9	0.00201604	0.04263867	0.004675991	MAD1L1
chr2	119603969	119605441	*	10	0.002018032	-0.025552879	-0.004797143	EN1
chr7	2551247	2551996	*	6	0.002018032	-0.01927938	-0.007952996	LFNG
chr15	34806592	34807221	*	5	0.00202147	-0.01433401	-0.006707387	NA
chr10	129845509	129846082	*	6	0.002023429	-0.022883801	-0.008268095	PTPRE
chr6	35479910	35480779	*	7	0.002024834	0.035115136	0.010398422	TULP1
chr18	24219872	24220737	*	3	0.002034958	0.027411964	0.014897312	KCTD1
chr6	83074812	83075187	*	3	0.002036346	0.030428792	0.015778156	TPBG
chr2	66664345	66665027	*	9	0.00204127	-0.015103518	-0.007600574	MEIS1;MEIS1-AS3
chr1	6313858	6314113	*	3	0.002045313	0.03055901	0.019840821	GPR153
chr1	113216243	113217204	*	13	0.002051012	-0.024562755	-0.005883886	MOV10
chr11	22687582	22688474	*	9	0.002061078	0.039720252	0.014662784	GAS2
chr6	31632171	31634890	*	52	0.002068472	0.023385127	-0.000991216	C6orf47;CSNK2B;GPANK1;LY6G5B
chr16	21963849	21965022	*	13	0.00208175	-0.023270792	-0.006328479	UQCRC2
chr16	4986962	4987927	*	12	0.00208175	-0.0187035	-0.00696983	PPL
chr20	17950131	17950965	*	5	0.002082153	0.03734606	0.004909582	MGME1;SNX5
chr15	85114169	85114479	*	3	0.002082153	0.015332766	0.00172808	LINC00933;UBE2Q2P1
chr1	112161618	112162084	*	4	0.002088251	0.065164708	0.03602836	RAP1A
chr20	43180850	43181661	*	3	0.00208993	0.032458696	0.025166719	PKIG
chr1	983386	984428	*	6	0.002091437	0.021414086	0.012145661	AGR1
chr22	50720813	50723019	*	8	0.002102035	0.025318359	0.007357074	PLXNB2

chr5	134364583	134364968	*	3	0.002102035	0.027749807	0.00929226	<i>C5orf66:PITX1</i>
chr6	41604740	41605994	*	5	0.002102369	0.046526461	0.010620818	<i>MDF1</i>
chr5	1489818	1489889	*	3	0.002111462	0.021218261	0.021009135	<i>LPCAT1</i>
chr19	53661755	53662958	*	11	0.002116703	-0.017756555	-0.005880606	<i>ZNF347</i>
chr20	25603976	25606029	*	19	0.002116844	0.021724287	0.003569033	<i>NANP</i>
chr19	58326009	58326618	*	10	0.002128475	-0.012980196	-0.006458637	<i>ZNF552;ZNF387;ZNF587B</i>
chr13	46189838	46190198	*	9	0.002128475	-0.014590191	-0.004821478	<i>ERICH6B</i>
chr8	146228110	146228920	*	14	0.002135106	-0.020280968	-0.002057481	<i>ZNF252P;ZNF252P-AS1</i>
chr18	67624071	67624393	*	3	0.002136426	-0.038377133	-0.016503316	<i>CD226</i>
chr2	74779799	74780272	*	7	0.002138369	0.037807542	0.014794946	<i>DOK1;LOXL3</i>
chr17	19290353	19291120	*	8	0.002147073	-0.014976798	-0.007909697	<i>MFAP4</i>
chr6	32811690	32813715	*	49	0.002156469	-0.012107758	-0.002724538	<i>PSMB8;PSMB8-AS1;TAP1</i>
chr4	99064102	99064904	*	9	0.002157865	0.039174896	0.01549373	<i>STPG2</i>
chr14	62331131	62331920	*	6	0.002170488	0.039979496	0.021727985	<i>NA</i>
chr14	102973717	102975405	*	8	0.002187099	0.027921514	0.011025479	<i>ANKRD9</i>
chr5	112072926	112073958	*	16	0.002190045	-0.03632232	-0.006311345	<i>APC</i>
chr13	34256111	34256553	*	3	0.002214077	0.015489527	0.012619361	<i>NA</i>
chr14	22950395	22951393	*	6	0.002216955	-0.033795263	-0.018242935	<i>NA</i>
chr16	1821856	1822795	*	6	0.002231763	0.023949591	0.003543942	<i>EME2;MRPS34;NME3</i>
chr1	114696350	114697113	*	14	0.002233925	-0.018511831	-0.00310039	<i>SYT6</i>
chr6	111888446	111888870	*	6	0.00224094	-0.017839671	-0.010767745	<i>TRAF3IP2;TRAF3IP2-AS1</i>
chr2	204103311	204104171	*	8	0.002242266	-0.03082112	-0.004714489	<i>CYP20A1</i>
chr13	113897950	113898827	*	3	0.002242266	0.02383318	0.004934597	<i>CUL4A</i>
chr19	3931338	3933856	*	14	0.002254848	0.025660598	-0.001733467	<i>NMRK2</i>
chr7	151503515	151503608	*	4	0.00225731	-0.017100579	-0.013548243	<i>PRKAG2</i>
chr3	129611515	129613115	*	10	0.002264027	0.028989627	0.00117682	<i>TMCCI;TMCCI-AS1</i>
chr22	43505892	43507665	*	30	0.002282624	0.029448524	0.001804404	<i>BIK</i>
chr9	101469203	101470884	*	7	0.002282624	0.040320882	0.001517375	<i>GABBR2</i>
chr19	42927668	42929067	*	9	0.002307541	0.033829892	0.011536259	<i>LIPE;LIPE-AS1</i>
chr1	63988325	63989705	*	18	0.002308411	-0.011682588	-0.003625963	<i>EFCAB7;ITGB3BP</i>
chr7	54609534	54610192	*	12	0.002313962	-0.017949835	-0.007005297	<i>VSTM2A</i>
chr7	27208577	27210940	*	19	0.002320291	0.02697755	-0.00285194	<i>HOXA10;HOXA10-AS;HOXA10-HOXA9;HOXA9;MIR196B</i>
chr12	133083102	133083593	*	4	0.002323066	-0.024825676	-0.016576341	<i>FBRSL1</i>
chr7	45613590	45614848	*	9	0.00232501	0.021328064	0.007046372	<i>ADCY1</i>
chr21	47169994	47170466	*	5	0.002327381	0.026641508	0.005428195	<i>PCBP3</i>
chr19	55995052	55996652	*	11	0.002337376	0.021525636	-0.001113508	<i>NAT14;SSC5D;ZNF628</i>
chr20	48184639	48186174	*	9	0.002343019	0.031829267	0.007898463	<i>PTGIS</i>
chr3	52231311	52231840	*	5	0.002346519	0.019541054	0.011878955	<i>ALAS1</i>
chr21	46798244	46798617	*	3	0.002351952	0.021564814	0.017039429	<i>NA</i>
chr17	68164127	68166241	*	17	0.00236618	-0.027685158	-0.005930146	<i>KCNJ2;KCNJ2-AS1</i>
chr5	139737425	139738364	*	4	0.002371823	0.014307736	-0.001872031	<i>SLCA49</i>
chr10	75007255	75008351	*	6	0.002375318	0.015654078	0.003904571	<i>DNAJC9;DNAJC9-AS1;MRPS16</i>
chr17	76037035	76037562	*	6	0.002382131	-0.043175561	-0.021393495	<i>TNRC6C</i>
chr4	7512177	7512528	*	5	0.002385251	-0.045636182	-0.019843886	<i>SORCS2</i>
chr21	43327823	43327978	*	3	0.002385251	0.023372883	0.013162771	<i>C2CD2</i>
chr4	75230391	75231177	*	9	0.002385305	-0.029842653	-0.008080507	<i>EREG</i>
chr7	142582859	142583404	*	4	0.002385473	0.020114611	0.013805231	<i>TRPV6</i>
chr13	34250594	34251651	*	6	0.002387385	-0.027563788	-0.014757265	<i>STARD13</i>
chr6	106433985	106434623	*	5	0.002418536	0.058343519	0.014705586	<i>NA</i>
chr10	6441693	6443025	*	3	0.002423278	-0.019673875	-0.012559872	<i>NA</i>
chr11	27744049	27744759	*	7	0.002432485	-0.022067015	-0.006307075	<i>BDNF</i>
chr6	22147182	22148082	*	6	0.002439225	-0.015388652	-0.010056853	<i>CASC15;NBAT1</i>
chr7	117512803	117513956	*	8	0.002441978	-0.020014152	-0.009408706	<i>CITNBP2</i>
chr12	133066054	133067734	*	20	0.002444211	-0.034488838	-0.011206051	<i>FBRSL1</i>
chr12	106974623	106977074	*	22	0.002463673	0.04441265	-9.37E-05	<i>LOC100287944;RFX4</i>
chr5	850745	851101	*	3	0.002467217	-0.030966605	-0.013786412	<i>ZDHHC11</i>
chr1	19832006	19832487	*	3	0.002487012	-0.021677301	-0.006338553	<i>NA</i>
chr8	146276606	146277845	*	5	0.002504977	-0.034452741	-0.001994904	<i>C8orf33</i>
chr1	209779784	209779995	*	3	0.002517869	0.030205691	0.011066249	<i>CAMK1G</i>
chr19	12776725	12777903	*	21	0.002518769	0.019684059	0.000445281	<i>MAN2B1;WDR83</i>
chr14	96000633	96001369	*	13	0.002518769	-0.018318056	-0.00208204	<i>GLRX5;SNHG10</i>
chr4	122853693	122854532	*	9	0.002518769	-0.050648821	-0.016167804	<i>TRPC3</i>
chr16	2479381	2480552	*	6	0.002518769	0.010308503	0.000766977	<i>CCNF</i>
chr20	58568926	58569565	*	4	0.002518769	0.019194229	-0.004203261	<i>CDH26</i>
chr5	7348324	7348673	*	3	0.002518769	-0.028060647	-0.020372181	<i>NA</i>
chr7	43232981	43233971	*	3	0.002531576	-0.038838848	-0.012581911	<i>HECW1</i>

chr11	70439937	70440910	*	5	0.002539802	-0.021832656	-0.001299915	SHANK2
chr14	23586582	23586886	*	3	0.002540887	-0.022577354	-0.015600343	CEBPE
chr19	8578767	8579199	*	9	0.002543502	-0.013564522	-0.001826123	ZNF414
chr6	29594481	29595661	*	13	0.002548837	0.03485652	0.011044366	GABBR1
chr19	42702481	42703852	*	5	0.00255692	0.012823906	0.00216578	DEDD2
chr11	3647086	3648013	*	7	0.00256622	-0.01579419	-0.00510869	TRPC2
chr14	31027639	31028244	*	9	0.00257683	-0.02598412	-0.00386589	G2E3
chr16	15818810	15819363	*	3	0.00257683	0.018508541	0.007954615	MYH11:NDE1
chr17	27892866	27893731	*	5	0.002577216	0.024674358	0.005239529	ABHD15:TP3113
chr18	74203484	74204135	*	5	0.002579142	-0.012038806	-0.005123942	ZNF516:ZNF516-DT
chr1	6639249	6640149	*	10	0.002581248	0.033255894	0.009041698	TAS1R1:ZBTB48
chr2	26828219	26829772	*	6	0.00258474	-0.016461525	4.25E-05	CIB4
chr10	116696671	116697985	*	10	0.002598634	-0.030536853	-0.004317192	TRUB1
chr1	58898552	58898793	*	3	0.002601555	-0.062311841	-0.047451925	DAB1
chr10	22623047	22624374	*	9	0.002605382	0.029628392	0.010731096	NA
chr10	23632825	23634319	*	8	0.002608165	-0.032146124	-0.007114364	C10orf67
chr1	41284582	41285496	*	5	0.002621946	0.034689772	0.015108936	KCNQ4
chr5	149545907	149546934	*	8	0.002624186	0.042656255	0.022037603	CDX1
chr10	13628544	13629624	*	9	0.002627255	-0.009717767	-1.44E-05	PRPF18
chr3	49209160	49210221	*	3	0.002639425	0.022002361	0.010810333	KLHDC8B
chr22	19701108	19702664	*	14	0.00263954	0.028479998	-0.005679508	SEPT5-GP1BB
chr12	121976655	121976833	*	3	0.002645476	0.027357601	0.014906072	KDM2B
chr6	26043820	26044405	*	8	0.002650004	0.020676751	0.008189827	H2BC3:H3C3
chr9	130564509	130565470	*	13	0.002676984	-0.05311162	-0.009208801	FPGS
chr6	143771318	143772728	*	18	0.002682395	0.013026275	0.000779343	ADAT2:PEX3
chr7	45299616	45299766	*	3	0.002689141	-0.026802811	-0.008487408	NA
chr11	68637568	68638100	*	3	0.002691042	-0.06288094	-0.034597056	NA
chr16	67261905	67263524	*	6	0.002693471	-0.017494288	-0.000534454	FHOD1:LRRC29:TMEM208
chr11	116371188	116371487	*	5	0.002693471	-0.047055655	-0.026852001	NA
chr6	28583655	28584464	*	14	0.002697312	0.030686555	0.011741129	NA
chr8	69243752	69244553	*	7	0.00270055	-0.011811019	-0.005597537	C8orf34:C8orf34-AS1
chr10	60936025	60937257	*	19	0.002712832	-0.036900665	-0.007613308	PHYH1PL
chr17	7906521	7908103	*	6	0.00271819	0.032989947	0.014252683	GUCY2D
chr9	130454217	130454671	*	5	0.002718192	0.023431278	0.020101173	MIR3911:STXBP1
chr4	3318625	3319541	*	6	0.002722313	0.036102914	0.015174064	RGS12
chr10	105677453	105678654	*	15	0.002730318	-0.041342776	-0.008429161	STN1
chr12	125633643	125634553	*	6	0.002738604	-0.038231632	-0.014035111	NA
chr1	41444578	41445793	*	19	0.002760386	0.015755331	0.002683446	CTPS1
chr6	27258466	27259237	*	9	0.002760386	0.019195174	0.005319562	NA
chr16	67430099	67430454	*	3	0.002761574	0.026310391	0.022727295	TPPP3:ZDHHC1
chr2	229045958	229047110	*	12	0.002771176	-0.023711735	-0.007297383	SPHKAP
chr3	13521634	13522740	*	14	0.002790116	0.013869669	0.002741414	HDAC11
chr1	154237531	154238265	*	3	0.002804509	-0.053258057	-0.035874369	UBAP2L
chr7	98553760	98554099	*	4	0.002804752	0.019836216	0.013643294	TRRAP
chr9	135036217	135037343	*	9	0.002808433	-0.010500877	-0.002796471	NTNG2
chr2	25527080	25527366	*	3	0.002810546	-0.035068471	-0.01164316	DNMT3A
chr11	8008673	8009242	*	8	0.002828725	-0.060007894	-0.009571003	EIF3F
chr22	44464449	44465038	*	9	0.002831699	-0.017701175	-0.009866645	PARVB
chr12	122442301	122443562	*	4	0.002832364	-0.038851056	-0.023723107	NA
chr9	19103069	19104016	*	8	0.002838247	-0.019587994	-0.006661527	HAUS6
chr3	120003292	120003884	*	6	0.002850751	0.063801944	0.020880982	NA
chr8	144222015	144222455	*	5	0.002861448	-0.03931834	-0.029452343	NA
chr14	71066865	71067802	*	9	0.002863137	-0.038120158	-0.009527109	MED6
chr17	73029893	73031159	*	6	0.002863317	0.009237125	0.002617373	KCTD2
chr14	50910667	50910968	*	3	0.002872541	-0.037900642	-0.020582222	MAP4K5
chr20	21105829	21106966	*	12	0.002888886	-0.024745981	-0.010526045	KIZ
chr6	28504908	28505429	*	6	0.002891373	0.020334004	-0.004059525	NA
chr13	103425389	103426051	*	5	0.00289796	-0.019032042	-0.00361871	TEX30
chr13	96705123	96706104	*	10	0.002898107	-0.017175808	-0.007631618	UGGT2
chr6	110796274	110796813	*	3	0.002900125	-0.030356835	-0.014363393	SLC22A16
chr3	8774922	8775601	*	6	0.002903001	0.02566784	0.007611341	CAV3:SSUH2
chr1	43205605	43206309	*	6	0.002908746	0.015028918	0.009829217	CLDN19
chr14	102372393	102372657	*	3	0.0029126	-0.031804535	-0.005067209	PPP2R5C
chr18	74276822	74277491	*	3	0.002915986	-0.012578662	-0.008763901	NA
chr15	89377583	89378209	*	3	0.002919833	0.032939541	0.019349831	ACAN
chr5	111755039	111756360	*	9	0.002921056	0.020239735	0.001296115	EPB41L4A:EPB41L4A-DT

chr2	189155551	189156621	*	10	0.002930649	-0.015760434	-0.005679793	<i>GULP1</i>
chr1	218523325	218524558	*	3	0.002936033	-0.030940865	-0.014822925	<i>TGFB2;TGFB2-AS1</i>
chr15	29862036	29862801	*	5	0.002938502	-0.031342462	-0.014241035	<i>FAM189A1</i>
chr20	9496625	9497330	*	3	0.002954111	-0.008404988	-0.004044388	<i>LAMP5</i>
chr11	32125186	32125738	*	3	0.00295559	-0.018821548	-0.016168783	<i>RCN1</i>
chr6	136172226	136173085	*	7	0.00297616	-0.018366279	-0.010664952	<i>PDE7B</i>
chr1	222014008	222014996	*	4	0.002977564	-0.024131701	-0.016251601	<i>NA</i>
chr2	3129847	3130349	*	4	0.002979907	0.017906948	0.007541589	<i>NA</i>
chr17	72732432	72733290	*	15	0.002986439	0.024922316	0.00439106	<i>RAB37</i>
chr11	66034681	66036038	*	51	0.002988333	-0.042399932	-0.003466188	<i>KLC2;RAB1B</i>
chr2	167231969	167232696	*	7	0.00299777	-0.007519035	-0.003469714	<i>SCN9A</i>
chr2	203776148	203777060	*	13	0.00299792	-0.011510161	-0.001928577	<i>CARF;WDR12</i>
chr22	37499853	37500722	*	6	0.003000427	0.014201818	0.004911746	<i>TMPRSS6</i>
chr9	14346276	14347122	*	4	0.003009022	-0.009166851	0.001623486	<i>NFIB</i>
chr2	238768032	238769419	*	9	0.003011281	0.037675528	0.013815142	<i>RAMP1</i>
chr17	59493993	59494444	*	5	0.003011281	-0.00886824	-0.003318718	<i>NA</i>
chr10	80008235	80008637	*	4	0.003011281	-0.023781824	-0.012459923	<i>LINC00856</i>
chr15	41777661	41778987	*	4	0.00301795	0.041536926	0.017336879	<i>NA</i>
chr16	85027930	85028515	*	3	0.00301993	-0.021091056	-0.004056518	<i>ZDHHC7</i>
chr2	121223534	121224327	*	7	0.003019968	0.042972886	0.021352739	<i>LINC01101</i>
chr20	34129142	34130163	*	14	0.003023738	0.016110188	0.002998069	<i>ERGIC3</i>
chr1	23279278	23280477	*	7	0.003029638	-0.027874831	-0.016568917	<i>NA</i>
chr5	137367832	137369294	*	11	0.003033508	-0.020371354	-0.00462706	<i>FAM13B</i>
chr3	172312523	172313107	*	4	0.003033508	-0.056442666	-0.029414958	<i>NA</i>
chr3	88107415	88107754	*	3	0.003041539	-0.007103032	-0.002314554	<i>CGGBP1</i>
chr4	186456009	186456976	*	11	0.003045303	0.019413188	-0.003051425	<i>PDLIM3</i>
chr22	21213387	21214125	*	6	0.003048307	0.019314397	0.006045683	<i>P14KA;SNAP29</i>
chr11	64405054	64406051	*	8	0.00307053	0.02780507	0.014295221	<i>NRXN2</i>
chr2	14772312	14773274	*	10	0.0030768	-0.02612876	-0.006087974	<i>LRATD1</i>
chr12	52240368	52242166	*	9	0.003092866	0.016753543	0.003547166	<i>NA</i>
chr4	3671067	3671697	*	5	0.003092866	0.026509151	0.018055948	<i>NA</i>
chr4	154680314	154680909	*	3	0.003097489	0.030776344	0.014669978	<i>RNF175</i>
chr5	55148279	55148974	*	5	0.0030981	0.071971511	0.006021333	<i>IL31RA</i>
chr3	51976427	51977385	*	5	0.003125364	0.023305149	0.012423095	<i>PARP3;RRP9</i>
chr1	154475068	154475688	*	4	0.003125616	-0.025303685	0.002899445	<i>SHE;TDRD10</i>
chr1	53526834	53528224	*	11	0.003129175	-0.012750815	-0.006770286	<i>PODN</i>
chr11	69631981	69633070	*	8	0.003129175	-0.020762751	-0.006751878	<i>FGF3</i>
chr15	68110824	68112070	*	8	0.003142703	0.042251066	0.018062333	<i>SKOR1</i>
chr6	38607245	38608904	*	15	0.003155613	-0.022134159	0.001000166	<i>BTBD9</i>
chr12	96336121	96337004	*	11	0.003164955	-0.022162286	-0.001100814	<i>AMDHD1;CCDC38</i>
chr1	35913782	35914081	*	3	0.003164955	-0.025138139	-0.017767257	<i>KIAA0319L</i>
chr8	68864012	68865187	*	13	0.003166367	-0.012846376	-0.003928452	<i>PREX2</i>
chr6	29454623	29455302	*	8	0.003167133	-0.025137769	-0.005908028	<i>MAS1L</i>
chr16	10275767	10276801	*	15	0.003170425	0.014322629	0.002869829	<i>GRIN2A</i>
chr16	2053627	2054287	*	5	0.003172953	0.031490382	0.020026757	<i>ZNF598</i>
chr3	62860802	62861925	*	13	0.0031751	-0.013488462	-0.00218122	<i>CADPS</i>
chr10	135341443	135343248	*	12	0.0031751	-0.063121552	-0.035726511	<i>CYP2E1</i>
chr5	1881655	1883514	*	11	0.0031751	-0.015879496	1.53E-05	<i>IRX4</i>
chr9	138391055	138393651	*	17	0.003184377	0.043442127	0.001473917	<i>C9orf116;MRPS2</i>
chr5	174150286	174151498	*	10	0.003187349	0.019420078	-0.001616145	<i>MSX2</i>
chr9	136844397	136844768	*	4	0.003191795	0.047338766	0.030025308	<i>VA2</i>
chr7	149416432	149416973	*	9	0.003197885	0.01887315	0.004753536	<i>KRBA1</i>
chr5	149569501	149570189	*	5	0.003202901	0.016879463	0.002576328	<i>SLC6A7</i>
chr2	32389741	32390937	*	10	0.003207599	0.03263136	-0.00256139	<i>SLC30A6</i>
chr10	133775416	133775839	*	6	0.003214305	-0.022132132	-0.008965231	<i>NA</i>
chr12	57983971	57985234	*	11	0.00321948	-0.03949958	-0.004675049	<i>PIP4K2C</i>
chr4	20253277	20255985	*	20	0.003225038	0.017455716	-0.002044244	<i>SLIT2</i>
chr4	56023423	56024434	*	6	0.003225099	0.054620893	0.030831657	<i>NA</i>
chr6	18386873	18387809	*	12	0.003225924	-0.018137014	-0.005818798	<i>RNF144B</i>
chr1	54881486	54881929	*	6	0.003225951	0.017562175	0.004546897	<i>NA</i>
chr19	19416751	19417480	*	5	0.003233359	0.016946541	0.008544177	<i>SUGP1</i>
chr9	91148748	91149860	*	5	0.00324399	-0.022046974	-0.008378808	<i>NXN12</i>
chr6	88031886	88032848	*	12	0.003260278	-0.016420051	-0.002080764	<i>GJB7;SMIM8</i>
chr12	16758414	16759391	*	14	0.003275516	-0.03020324	-0.005086774	<i>LMO3</i>
chr10	32667705	32667923	*	7	0.003275516	-0.010846248	-0.005989165	<i>EPC1</i>
chr11	113932106	113934010	*	9	0.003292992	-0.019212127	-0.010493711	<i>ZBTB16</i>

chr9	137772282	137772886	*	6	0.003303116	-0.025391536	-0.011380032	<i>FCN2</i>
chr17	79920132	79921131	*	7	0.003306496	0.025237765	0.015726017	<i>NOTUM</i>
chr17	78831167	78831863	*	5	0.003306592	0.019137451	0.010707271	<i>RPTOR</i>
chr10	65388604	65389292	*	4	0.003309315	-0.034572091	-0.008241175	<i>NA</i>
chr2	168150602	168151051	*	5	0.003309804	-0.012854188	-0.009333353	<i>NA</i>
chr2	24269866	24270726	*	9	0.003324487	0.025805483	-0.004427963	<i>FKBP1B;WDCP</i>
chr4	24914441	24914970	*	8	0.003328501	-0.022504258	-0.010722029	<i>CCDC149</i>
chr8	6263875	6264959	*	6	0.003328501	-0.011369877	-0.001752786	<i>LOC100287015;MCPH1</i>
chr20	2539517	2539876	*	5	0.003333521	-0.034297043	-0.011141126	<i>TMC2</i>
chr14	104551481	104552397	*	12	0.003338685	-0.022752698	-0.011532821	<i>ASPG</i>
chr5	150631895	150632733	*	11	0.003339018	-0.037428402	-0.012295035	<i>GM2A</i>
chr1	222011091	222011349	*	4	0.003353449	-0.030039226	-0.013334396	<i>NA</i>
chr11	115860682	115861018	*	5	0.003357518	-0.029148851	-0.024545745	<i>NA</i>
chr8	27468166	27469673	*	10	0.003362391	0.026912798	-0.006901208	<i>CLU</i>
chr12	58138320	58139148	*	10	0.003371408	-0.021107972	-0.007164567	<i>AGAP2;TSPAN31</i>
chr13	44947076	44948827	*	10	0.003382955	0.026357533	0.003730649	<i>SERP2</i>
chr11	64780701	64781842	*	8	0.003392652	0.014701718	0.000919907	<i>ARL2;ARL2-SNX15</i>
chr16	50347766	50347895	*	3	0.003392847	-0.029408249	-0.017567118	<i>ADCY7</i>
chr3	112930675	112931496	*	9	0.003400014	-0.014005951	-0.008428866	<i>BOC</i>
chr20	42983727	42984878	*	13	0.003405482	0.041269415	0.007494531	<i>HNF4A</i>
chr5	148017424	148018093	*	3	0.003409223	0.02590324	0.013636885	<i>HTR4;SH3TC2</i>
chr1	165414189	165415170	*	15	0.003411938	0.026473314	-0.004351462	<i>RXRG</i>
chr16	67464483	67465561	*	15	0.003411938	-0.032557685	-0.000820448	<i>HSD11B2</i>
chr21	42791867	42792703	*	11	0.003411938	0.017428193	0.003261193	<i>MX1</i>
chr12	118498668	118499294	*	4	0.003411938	-0.02295657	-0.005376305	<i>WSB2</i>
chr17	21186789	21187553	*	4	0.003414866	0.026834184	0.012664119	<i>MAP2K3</i>
chr7	42942369	42942901	*	4	0.003423605	-0.030704029	-0.019080472	<i>NA</i>
chr20	61147144	61148218	*	9	0.003433675	0.027414169	0.009320769	<i>MIR1-1;MIR1-1HG;MIR1-1HG-AS1</i>
chr8	22132434	22133356	*	14	0.00345146	0.026157156	0.009903607	<i>PIWIL2</i>
chr11	67210033	67210812	*	5	0.003464273	0.016039023	0.006448517	<i>CORO1B;PTPRCAP</i>
chr19	7894388	7895393	*	11	0.003465527	-0.03071486	-0.013088741	<i>EVISL</i>
chr4	667199	668276	*	15	0.003465959	-0.01574677	-0.00371613	<i>ATP5ME;MYL5</i>
chr2	189158094	189158532	*	4	0.003466687	0.041149274	0.026437834	<i>GULP1;MIR561</i>
chr7	47293799	47294330	*	5	0.003478166	-0.00840762	-0.002418701	<i>NA</i>
chr8	10282549	10283275	*	6	0.003503288	-0.027577883	-0.006179007	<i>MSRA</i>
chr20	39799805	39800368	*	3	0.003515432	-0.011972108	-0.00375792	<i>PLCG1</i>
chr12	52262736	52263387	*	3	0.003524336	-0.019558604	0.000532969	<i>NA</i>
chr17	38023480	38024636	*	7	0.003540399	0.056279644	0.018275963	<i>IKZF3;ZBPB2</i>
chr6	28876139	28877723	*	8	0.003547463	-0.041971412	-0.002443116	<i>TRIM27</i>
chr14	64760831	64761822	*	11	0.003558699	-0.03273183	-0.004449027	<i>ESR2</i>
chr2	61200075	61200229	*	3	0.003558699	0.015827534	0.012898533	<i>PUS10</i>
chr4	56211228	56211433	*	3	0.003559908	-0.020461861	-0.005118637	<i>SRD5A3</i>
chr2	187713554	187714279	*	11	0.003560378	-0.030392913	-0.007227091	<i>ZSWIM2</i>
chr15	65822313	65822992	*	12	0.003562212	0.024192113	0.00176168	<i>HACD3</i>
chr20	58325159	58326180	*	3	0.003563008	-0.034792634	-0.009712924	<i>PHACTR3</i>
chr20	47895899	47897260	*	8	0.003570152	0.02906904	0.009741399	<i>SNORD12;SNORD12B;ZFAS1;ZNFX1</i>
chr2	208889973	208890802	*	12	0.003574244	-0.029014234	-0.008282587	<i>PLEKHM3</i>
chr6	33172333	33173581	*	24	0.003584777	0.030986073	0.004259231	<i>HSD17B8;MIR219A1;RING1;RXRB</i>
chr16	75589282	75590036	*	7	0.003585455	-0.009656201	-0.001895758	<i>TMEM231</i>
chr5	176326365	176327557	*	7	0.003586626	0.016981014	-0.001686893	<i>HK3</i>
chr4	53727431	53728510	*	7	0.00359499	-0.034421969	-0.009911899	<i>RASL11B</i>
chr1	43919181	43920264	*	17	0.003610053	-0.0183305	-0.004326626	<i>HY1-SZT2</i>
chr3	133748115	133748812	*	7	0.003634002	-0.028855596	-0.011075471	<i>SLCO2A1</i>
chr15	43809486	43810131	*	7	0.003640004	-0.014115316	-0.00737991	<i>MAP1A</i>
chr5	1644520	1645640	*	6	0.003640004	-0.024343826	-0.011877996	<i>NA</i>
chr7	25219543	25220412	*	12	0.003655064	-0.027070404	-0.007651863	<i>C7orf31</i>
chr2	71017541	71018823	*	12	0.003664775	0.035662127	0.011873534	<i>FIGLA</i>
chr20	37353700	37354117	*	3	0.003665955	-0.019544188	-0.001468217	<i>SLC32A1</i>
chr12	22093960	22095182	*	15	0.003668182	0.01972376	0.003256874	<i>ABCC9</i>
chr16	1574269	1575414	*	8	0.003670237	0.029021841	0.009996801	<i>IFT140;TMEM204</i>
chr6	26205212	26205610	*	4	0.003690776	-0.021018548	-0.002402529	<i>H4C5</i>
chr7	134832432	134833335	*	11	0.003700447	0.018911415	-0.001728838	<i>CYREN;TMEM140</i>
chr10	7708240	7709160	*	11	0.003708678	-0.032240198	-0.011965405	<i>ITIH5</i>
chr11	128775026	128776216	*	10	0.003708678	-0.017492693	-0.006301516	<i>C11orf45;KCNJ5</i>
chr6	131571435	131571669	*	4	0.00371195	-0.025434527	-0.014789992	<i>AKAP7</i>
chr19	38916488	38917025	*	6	0.003727397	-0.019476482	-0.004147405	<i>RASGRP4</i>

chr12	62995960	62998134	*	16	0.003741305	-0.015781697	-0.002694918	LINC01465:MIRLET71
chr21	46291868	46292710	*	4	0.003753905	-0.01614045	-0.010944025	PTTG1IP
chr17	80621842	80622941	*	5	0.003758973	0.020075466	0.007071087	RAB40B
chr6	31164776	31165413	*	11	0.003781004	-0.040998327	-0.01450727	HCG27
chr13	61989037	61990113	*	16	0.003791048	-0.016037144	-0.003079401	PCDH20
chr11	61247223	61248887	*	9	0.003795138	0.028052998	0.006840728	PPP1R32
chr2	158732186	158733332	*	5	0.003797027	-0.029076618	-0.005226633	ACVR1
chr4	146401952	146402943	*	6	0.003799339	-0.020337511	-0.007853966	SMAD1
chr2	240161815	240162404	*	5	0.003801005	-0.018903045	-0.010686518	HDAC4
chr12	12848516	12850082	*	14	0.003803816	0.025049992	0.005606122	GPR19
chr3	51428079	51428687	*	11	0.003804211	0.025534128	0.000832231	RBM15B
chr1	10713944	10714701	*	5	0.003809572	0.022663913	0.011896263	CASZ1
chr6	29717475	29718119	*	5	0.003825975	0.031782155	0.00598489	HLA-F-AS1
chr2	179916080	179916205	*	4	0.003858634	0.022624713	0.014296555	CCDC141
chr1	1713676	1714271	*	6	0.003870861	0.026589226	0.013320524	NADK
chr7	984874	985784	*	9	0.003895336	0.017545603	0.0076486	ADAP1
chr12	103889042	103890083	*	14	0.003905778	-0.018028544	-0.00378965	C12orf42
chr1	86861147	86862273	*	14	0.003918394	0.01769493	-0.001396349	ODF2L
chr19	6502301	6502938	*	11	0.003918394	0.020337063	0.004465638	TUBB4A
chr2	47382287	47383720	*	14	0.003929803	0.019403305	-0.005764151	STPG4
chr3	184278268	184279593	*	11	0.003946856	-0.010767426	-0.001946655	EPHB3
chr21	40984285	40985406	*	12	0.003974197	-0.040715743	-0.011523577	B3GALTS;B3GALTS-AS1
chr15	78556178	78557094	*	12	0.00397773	0.026768258	0.003375181	DNAJA4
chr6	32945234	32946524	*	9	0.003987352	0.017201686	0.001691898	BRD2
chr3	159482413	159483186	*	4	0.004024088	-0.010621363	-0.001597338	IQCJ-SCHIP1;SCHIP1
chr6	154359967	154360894	*	12	0.004033203	-0.029977972	-0.001409827	OPRM1
chr16	30428842	30430044	*	5	0.004033203	0.023565069	0.010461094	ZNF771
chr13	114846655	114847515	*	4	0.004034828	0.013163966	0.005036344	RASA3
chr14	65380577	65381608	*	15	0.004036516	-0.034874411	-0.003358899	CHURC1;CHURC1-FNTB
chr17	53800041	53800484	*	5	0.004036516	-0.030624108	-0.010412344	TMEM100
chr7	933881	934221	*	4	0.004045053	0.015104808	0.005132197	GET4
chr6	21856149	21856613	*	3	0.004067202	-0.023640563	-0.011569098	CASC15
chr1	48463105	48463807	*	5	0.00407137	-0.050533356	-0.018515333	TRABD2B
chr10	97200985	97201222	*	4	0.004075086	-0.023269718	-0.013488124	SORBS1
chr13	28712950	28713767	*	7	0.004076137	-0.020307709	-0.004651632	PAN3;PAN3-AS1
chr1	150521766	150522965	*	8	0.004080578	0.029904259	0.004162478	ADAMTSL4;MIR4257
chr1	28831782	28832782	*	15	0.004081174	0.01614855	-0.003349784	RCCI;SNHG3
chr16	56388908	56390830	*	8	0.004092908	-0.020615962	-0.005932087	GNAO1
chr6	32140544	32141146	*	4	0.004095781	-0.018443748	0.006313771	AGPAT1
chr8	145103309	145103942	*	5	0.004106987	0.01386191	0.002765455	NA
chr2	160761085	160762289	*	12	0.004129804	-0.018910212	-0.003319141	LY75;LY75-CD302
chr11	84431163	84432312	*	8	0.004134592	-0.013864336	-0.005113305	DLG2
chr3	10362520	10363474	*	10	0.004141213	0.01929182	-0.000244343	SECI3
chr4	48018263	48019555	*	9	0.004145247	0.028110079	-0.002288379	CNGA1;NIPAL1
chr6	119401102	119401660	*	3	0.004149975	0.025760245	0.00107533	FAM184A
chr2	160472660	160473496	*	8	0.004154606	-0.020803352	-0.010827186	BAZ2B
chr14	60336433	60337477	*	7	0.004154606	-0.016618539	-0.010070623	RTN1
chr11	120106598	120107376	*	4	0.004158255	0.016083072	0.000768317	POU2F3
chr11	119018927	119019845	*	6	0.004164163	0.028635391	0.012449051	ABCG4
chr1	1027520	1028583	*	6	0.00416514	0.015708262	0.010796592	C1orf159
chr12	114843188	114845223	*	17	0.004165189	-0.028419359	-0.004656086	TBX5;TBX5-AS1
chr3	9744908	9745460	*	8	0.004167865	-0.018576815	-0.00674638	CPNE9
chr15	79723997	79725642	*	14	0.004173001	-0.023434615	-0.006388988	MINAR1
chr13	24825184	24825973	*	6	0.004181504	-0.031370559	-0.014934785	SPATA13
chr1	220101368	220102528	*	18	0.004195105	0.023837484	0.005229938	RNU5F-1;SLC30A10
chr5	176307323	176308026	*	6	0.004199073	0.017011839	0.006364794	HK3;UNC5A
chr18	74535233	74535991	*	7	0.004205499	0.018875484	0.010412335	ZNF236;ZNF236-DT
chr15	42840397	42841312	*	13	0.004208586	-0.009256914	-0.002557325	HAUS2;LRRC57
chr10	134900906	134901689	*	8	0.004219619	-0.030484726	-0.010305064	ADGRA1
chr12	126467559	126468899	*	9	0.00422921	-0.021491556	-0.007966133	LINC00939
chr6	44281348	44282149	*	5	0.004234368	0.032816477	0.010284626	AARS2;SPATS1
chr2	163625066	163625295	*	3	0.004235707	-0.052282942	-0.022082792	KCNH7
chr14	92572097	92573147	*	12	0.004241034	-0.015921009	-0.003780345	ATXN3
chr12	48151974	48153388	*	20	0.004243073	0.024889589	-0.001937068	RAPGEF3
chr16	84650990	84651521	*	4	0.004263413	0.009430578	0.00161005	COTL1
chr2	74735875	74736118	*	4	0.004274204	-0.021585216	0.001229224	PCGF1;TLX2

chr4	2401036	2402046	*	5	0.00427822	0.019430695	0.012672942	ZFYVE28
chr1	12508973	12509707	*	4	0.004280724	-0.034375036	-0.017445368	VPS13D
chr11	19261879	19263311	*	18	0.004280941	-0.01459494	-0.002041895	E2F8
chr12	125478229	125478868	*	7	0.004280941	-0.024742782	-0.006414657	BRI3BP;DHX37
chr15	41220951	41222276	*	12	0.004294622	-0.010216422	-0.00292331	DLL4
chr6	35490164	35490818	*	4	0.004308713	-0.015393622	0.004141755	NA
chr13	73355442	73356506	*	14	0.004309302	-0.011357633	-0.002369648	DIS3;PIBF1
chr7	100136013	100136517	*	5	0.004327518	-0.009132551	-0.00167343	AGFG2
chr17	55938642	55939590	*	7	0.004332211	-0.027799553	-0.001829544	CUEDC1
chr9	21994752	21996207	*	11	0.004335584	-0.030706684	-0.004385089	CDKN2A;CDKN2B-AS1;MTAP
chr12	129299088	129299702	*	7	0.004337256	-0.029981073	-0.011657442	SLC15A4
chr1	31423023	31423283	*	4	0.004359912	-0.021881192	-0.004701604	PUM1;SNORD103A
chr10	31288287	31288688	*	3	0.004363662	-0.025265967	-0.023644405	ZNF438
chr15	23933002	23933620	*	4	0.004374876	-0.026764147	-0.001418565	NDN
chr3	128721448	128722579	*	5	0.004379081	0.023893098	0.009246167	EFCC1
chr14	22938675	22939357	*	5	0.004381358	-0.033887821	-0.022507492	NA
chr4	184186563	184186934	*	4	0.004381358	0.023700978	0.018441726	WWC2
chr13	74864357	74864782	*	3	0.00438758	-0.041553266	-0.027302837	NA
chr1	41131751	41132022	*	3	0.00439299	-0.034616471	-0.00469085	RIMS3
chr10	49892203	49893346	*	11	0.00439604	0.017564977	-0.005263238	WDFY4
chr6	111926749	111928204	*	7	0.004399737	-0.02686777	-0.012470293	TRAF3IP2
chr10	118380116	118381044	*	5	0.004399737	0.032281123	0.018435868	PNLIPRP2
chr16	742426	743338	*	4	0.004403654	-0.052268182	-0.001919053	FBXL16;WDR24
chr3	173301431	173303193	*	8	0.004409666	-0.016840701	-0.008662872	NLGN1
chr11	117747030	117748236	*	18	0.004418335	0.030159309	0.006080946	FXYP6;FXYP6-FXYD2
chr6	167047310	167047877	*	3	0.004421301	-0.029344433	-0.020145111	RPS6KA2
chr16	58540765	58541612	*	4	0.004424921	0.016605626	-0.002030547	NRG4
chr22	37641093	37641970	*	4	0.004427254	-0.024358931	-0.012600899	RAC2
chr15	80444736	80445874	*	11	0.004436136	-0.022379322	-0.01008025	FAH
chr3	23244051	23244348	*	8	0.004442599	0.017471401	0.00333476	UBE2E2
chr17	42295591	42296315	*	11	0.004442985	-0.042371144	-0.007190693	UBTF
chr3	121379745	121380792	*	9	0.004444748	-0.016980673	-0.004802262	HCLS1
chr14	74178976	74180391	*	6	0.004445571	0.018274193	0.004278439	PNMA1
chr14	65171010	65172436	*	13	0.004446774	0.021222823	0.000643993	PLEKHG3
chr17	42092187	42093151	*	14	0.004447835	0.015001235	0.000167411	TMEM101
chr8	98880145	98881927	*	15	0.004448408	-0.045434594	-0.004799669	MATN2
chr12	3361725	3361996	*	3	0.00445093	-0.012727738	-0.002574259	TSPAN9
chr1	28051702	28052784	*	14	0.004453309	0.013361975	-3.55E-05	FAM76A
chr3	57331843	57332341	*	3	0.004466452	0.015261649	0.008744005	DNAH12
chr16	401986	403022	*	4	0.004476479	-0.03720688	-0.027679705	AXIN1
chr9	99145998	99146400	*	7	0.004478006	-0.030231703	-0.005631715	SLC35D2
chr8	22560922	22561719	*	6	0.004497392	0.025665828	0.015271101	NA
chr12	105380444	105381266	*	3	0.004498803	-0.041446446	-0.006045955	C12orf45
chr3	157019345	157019556	*	3	0.004501588	0.023897695	0.008271393	VEPH1
chr19	52956310	52957180	*	11	0.00452359	0.03115087	-0.000330413	ZNF578
chr3	183893065	183894778	*	8	0.004525259	0.026082927	0.008621123	AP2M1
chr2	242003078	242003549	*	3	0.00452696	-0.037954575	-0.028293871	SNED1
chr15	41061384	41062224	*	10	0.004544238	-0.013292205	-0.007265303	C15orf62;DNAJC17
chr11	112034801	112035434	*	6	0.004549851	-0.023861858	-0.014604767	IL18;TEX12
chr6	137815333	137816901	*	11	0.00455534	0.013605456	-0.001986315	OLIG3
chr1	32222440	32223040	*	5	0.004555768	0.015641815	0.010426222	ADGRB2
chr15	93126401	93127379	*	5	0.004562467	-0.029497784	0.001511543	NA
chr5	124043354	124044098	*	5	0.004567925	-0.022571406	-0.015157925	ZNF608
chr22	32358655	32359081	*	3	0.004569558	0.017974166	0.008043281	NA
chr10	92979600	92980627	*	15	0.004581474	-0.028458085	-0.003753986	PCGF5
chr14	105308891	105309812	*	3	0.004586663	0.026252886	0.007042696	NA
chr16	20338303	20339420	*	7	0.004587716	0.024388199	0.009836557	GP2
chr12	66275403	66276974	*	13	0.004588701	-0.02152373	-0.007203961	HMGA2
chr20	3051493	3052483	*	13	0.004588701	0.028018184	0.013337769	OXT
chr17	72426469	72427563	*	13	0.004599585	0.013291304	0.000171781	GPRC3C
chr19	52799192	52800469	*	11	0.004601154	-0.022249727	-0.008490162	ZNF480
chr4	8207058	8207325	*	4	0.004602545	0.032265149	0.012435289	SH3TC1
chr2	198364282	198365671	*	23	0.004605458	-0.025641637	-0.002584203	HSPD1;HSPE1;HSPE1-MOB4
chr13	50703026	50703841	*	5	0.004606448	0.023883927	0.015650064	DLEU1;DLEU2
chr7	95064015	95065139	*	16	0.004619124	0.01357423	0.000376096	PON2
chr10	15355978	15356822	*	3	0.004619454	0.018466436	-0.001917502	FAM171A1

chr12	65218019	65218728	*	12	0.004622217	0.015826761	-0.001952676	<i>TBC1D30</i>
chr5	149339858	149340320	*	11	0.004628907	-0.01793565	-0.001849031	<i>SLC26A2</i>
chr9	130540941	130541531	*	6	0.004635858	-0.015178676	-0.00788124	<i>SH2D3C</i>
chr2	145090263	145090814	*	8	0.004640908	-0.024305247	-0.000638267	<i>GTDC1</i>
chr16	1429545	1430367	*	9	0.004651278	0.031794122	0.012420866	<i>UNKL</i>
chr17	37719431	37720009	*	3	0.004652014	-0.0383407	-0.014576074	<i>NA</i>
chr17	2595701	2595994	*	3	0.00465914	0.025336316	0.013692634	<i>CLUH</i>
chr1	247581408	247582066	*	7	0.004664699	0.021905604	-0.001483574	<i>NLRP3</i>
chr3	147072402	147073118	*	5	0.004665495	-0.023462848	-0.012422004	<i>NA</i>
chr1	58716018	58717107	*	11	0.004669643	0.029237121	-0.002957602	<i>DAB1</i>
chr19	6710658	6711092	*	3	0.004673694	0.033727458	0.022160583	<i>C3</i>
chr20	62369445	62370310	*	7	0.004675191	0.026631124	0.006730122	<i>LIME1;SLC2A4RG;ZGPAT</i>
chr13	39260874	39262298	*	11	0.004683782	-0.015122333	-0.00323653	<i>FREM2</i>
chr5	140580101	140580212	*	3	0.004683844	-0.0592924	-0.026725922	<i>PCDHB11</i>
chr2	10183603	10184650	*	11	0.004687405	0.055066521	0.014267179	<i>KLF11</i>
chr1	154539523	154540535	*	7	0.00468928	-0.031846852	-0.008829917	<i>CHRN2</i>
chr2	106755003	106755721	*	6	0.004696998	0.029524114	0.015031884	<i>UXS1</i>
chr2	36780691	36780705	*	3	0.004698782	-0.024922632	-0.020916364	<i>FEZZ</i>
chr8	67940640	67941857	*	12	0.004705928	0.010935754	-0.00026691	<i>PPP1R42</i>
chr9	10611904	10612567	*	3	0.004706817	0.01526852	0.002069857	<i>PTPRD</i>
chr12	54349169	54350294	*	6	0.004708896	-0.030724779	-0.013152947	<i>HOXC12</i>
chr2	51259175	51259703	*	10	0.004713847	-0.025649707	-0.009838068	<i>NRXN1</i>
chr14	20903410	20904320	*	12	0.004721942	0.022242562	0.009740032	<i>KLHL33</i>
chr3	51742164	51742878	*	4	0.004722932	0.022774664	0.003209832	<i>GRM2</i>
chr7	5426831	5427251	*	3	0.004722932	0.018968457	0.006349246	<i>TNRC18</i>
chr7	114561493	114562847	*	12	0.004724054	0.042061448	0.009733669	<i>MDFC</i>
chr11	123300323	123301490	*	10	0.004733401	0.012567908	-0.001090712	<i>NA</i>
chr5	1494980	1495356	*	4	0.004739199	0.018263718	0.009010531	<i>LPCAT1</i>
chr22	30969767	30970729	*	4	0.004744609	-0.049233468	-0.030899037	<i>GAL3ST1</i>
chr7	101603298	101603359	*	3	0.004749807	-0.018398564	-0.016781351	<i>CUX1</i>
chr1	248902767	248903325	*	7	0.004752525	-0.028797256	-0.012094993	<i>LYPD8</i>
chr19	37328842	37329859	*	17	0.004761136	0.018353873	-7.89E-05	<i>ZNF790</i>
chr5	160975347	160976417	*	12	0.004763258	-0.010684747	-0.006504189	<i>GABRB2</i>
chr19	50269440	50270616	*	12	0.004767734	-0.015841659	-0.00349614	<i>AP2A1;TSKS</i>
chr14	93580644	93581139	*	3	0.004779719	0.019612197	0.003210715	<i>ITPK1</i>
chr9	130699885	130701076	*	10	0.004800947	0.031604133	0.011593421	<i>DPM2</i>
chr21	37092789	37093340	*	4	0.004802323	0.016779656	0.006233831	<i>MIR802;RUNX1</i>
chr3	152879564	152880101	*	7	0.004810734	-0.005260317	-0.000588834	<i>RAP2B</i>
chr20	33813236	33814184	*	5	0.0048149	-0.018315897	-0.009672585	<i>EDEM2;MMP24</i>
chr8	130950848	130951373	*	3	0.0048149	-0.02039123	-0.017064887	<i>CYR1B</i>
chr12	132939165	132940939	*	7	0.004816602	0.040156225	-0.00023484	<i>NA</i>
chr11	64267330	64268315	*	4	0.004834421	-0.028699916	-0.012844087	<i>NA</i>
chr2	220378659	220379968	*	13	0.004842948	0.015052885	0.000545513	<i>ASIC4</i>
chr17	170770	171948	*	11	0.004846122	0.031129968	0.022039999	<i>RPH3AL</i>
chr5	102089184	102090704	*	8	0.004857449	0.02239253	0.006791579	<i>NA</i>
chr6	1624386	1625238	*	6	0.004857825	0.030421961	0.010801416	<i>GMDS</i>
chr20	36155979	36157405	*	43	0.0048589	-0.026988915	-0.002727026	<i>BLCAP</i>
chr6	32094845	32096219	*	31	0.004868288	-0.022439266	-0.003773863	<i>ATF6B</i>
chr1	47184410	47185236	*	13	0.004868288	0.021755198	0.000522267	<i>EFCAB14</i>
chr9	841067	841850	*	8	0.004868288	0.024793724	0.004756887	<i>DMRT1</i>
chr16	77468970	77470221	*	10	0.004871898	-0.031651229	-0.009833795	<i>ADAMTS18</i>
chr5	95196871	95197476	*	5	0.004884088	-0.025233751	-0.014986083	<i>NA</i>
chr4	186731926	186732207	*	3	0.004886137	0.024365167	0.010211261	<i>SORBS2</i>
chr18	28622474	28623390	*	14	0.004901519	-0.019673397	-0.008680049	<i>DSC3</i>
chr5	35924618	35925474	*	4	0.004901698	-0.010833847	-0.003350527	<i>CAPSL</i>
chr6	7726645	7726983	*	3	0.00491681	0.022570812	0.00876302	<i>BMP6</i>
chr12	6307048	6309025	*	7	0.004928118	0.023668051	0.014081145	<i>CD9</i>
chr7	158512380	158512671	*	4	0.004928118	-0.042261601	-0.017257858	<i>NA</i>
chr6	29974319	29975675	*	26	0.004930947	0.027779752	-0.001099913	<i>HLA-G;HLA-H;HLA-J;ZNRD1ASP</i>
chr12	131872163	131872391	*	3	0.004934687	-0.022627252	-0.015501359	<i>NA</i>
chr16	3013025	3013745	*	4	0.004936136	0.022500869	0.00534656	<i>KREMEN2</i>
chr1	200009927	200010626	*	4	0.004936136	0.019231715	0.005919159	<i>NR5A2</i>
chr19	536244	536929	*	5	0.004943453	0.027903016	0.006425425	<i>CDC34</i>
chr12	54408427	54409657	*	12	0.004943934	-0.01841696	-0.006550619	<i>HOXC4;HOXC5;HOXC6</i>
chr5	6632973	6633577	*	11	0.004945219	0.013149936	0.002032116	<i>NSUN2;SRD5A1</i>
chr19	15121199	15121596	*	11	0.004948501	0.024233034	0.015555753	<i>CCDC105;SLC1A6</i>

chr13	113303307	113303719	*	4	0.004948501	0.028025923	0.014208581	ATP11AUN
chr5	149996672	149997153	*	4	0.004958271	-0.044691865	-0.012088356	SYNPO
chr6	31855695	31857040	*	23	0.004959771	0.018191897	0.004469817	EHMT2
chr21	43815685	43816355	*	7	0.004961301	-0.023899291	-0.000265747	TMPRSS3
chr1	2382748	2383687	*	6	0.004965536	-0.025852219	-0.014545518	NA
chr4	737005	738172	*	6	0.004970095	-0.015717498	-0.00620202	PCGF3
chr15	88798666	88799707	*	7	0.004973109	-0.015172045	-0.004871123	NTRK3;NTRK3-AS1
chr8	140945782	140945843	*	3	0.004973109	-0.024756137	-0.014891665	TRAPPC9
chr4	46390730	46392485	*	17	0.004975417	-0.025739921	-0.00266794	GABRA2
chr8	144872060	144872852	*	5	0.004976387	0.023148694	0.008678377	NA
chr16	89951702	89951949	*	3	0.004979043	-0.01515223	-0.008262476	TCF25
chr15	102345708	102345981	*	3	0.004995071	-0.027482485	-0.016883385	OR4F6
chr1	227974177	227975220	*	6	0.005003337	-0.031411675	-0.015538843	NA
chr1	153651147	153652247	*	8	0.005011851	-0.017421703	-0.004643349	NPR1
chr15	35087506	35088005	*	6	0.005014383	-0.017065291	-0.008677238	ACTC1
chr17	75445905	75446661	*	9	0.005018118	0.020163665	0.009367473	SEPTIN9
chr5	74807815	74808931	*	10	0.005026264	0.018205418	0.001429592	CERT1;POLK
chr19	52407881	52408518	*	10	0.005027318	-0.015969595	-0.006585875	ZNF649
chr6	36644997	36646551	*	16	0.005031145	0.032686301	0.004985402	CDKN1A
chr4	74296058	74296726	*	3	0.005041752	0.020732718	0.008030932	AFP
chr5	421317	422114	*	3	0.005045934	-0.035271914	-0.02354353	AHRR
chr10	112888790	112889349	*	3	0.005045934	-0.029742148	-0.022654064	NA
chr1	47644094	47646024	*	12	0.005047379	-0.035894803	-0.003103402	LINC00853
chr1	67773128	67773725	*	6	0.005047541	-0.012166284	-0.004206722	IL12RB2
chr3	184098184	184098596	*	4	0.005098828	-0.031039607	-0.018472494	CHRD;THPO
chr9	34662282	34663048	*	5	0.005118896	0.021965534	0.007885533	CCL27
chr12	8234656	8235314	*	8	0.00512212	-0.008670227	-0.003465856	NECAP1
chr2	231737741	231737958	*	5	0.00512212	0.023193671	0.012033168	ITM2C
chr2	42968	43812	*	3	0.00512212	-0.033149443	-0.009775241	FAM110C
chr6	3258005	3259961	*	15	0.00512349	-0.032041036	-0.005604935	PSMG4
chr11	116577961	116578399	*	4	0.00512349	-0.064496594	-0.029821306	NA
chr14	101499152	101499893	*	4	0.005125279	0.026081491	0.019422001	MIR495
chr2	3652840	3654582	*	7	0.005128172	-0.04079192	-0.008235315	COLEC11
chr5	96077898	96078834	*	5	0.005133629	-0.034871655	-0.026403508	CAST
chr3	196157895	196158975	*	7	0.005139061	-0.016327126	-0.004019268	UBXN7
chr6	83072573	83073619	*	10	0.005148262	-0.018981063	-0.006410955	TPBG
chr5	110427072	110427275	*	3	0.005159146	-0.019725356	-0.008418069	WDR36
chr3	132755839	132756669	*	6	0.005165643	-0.018032586	-0.006344555	TMEM108
chr20	2674548	2675418	*	4	0.005171993	0.040141643	0.018596923	EBF4
chr2	43188851	43189254	*	3	0.005177714	-0.017921773	-0.011864373	NA
chr5	346365	346987	*	3	0.005183976	-0.023370008	-0.016700038	AHRR
chr6	70990187	70991229	*	7	0.005195268	0.043567836	0.021173607	COL9A1
chr2	128388876	128389207	*	3	0.005195346	0.017851352	0.01340831	MYO7B
chr1	10487953	10488281	*	3	0.005198493	-0.027536609	-0.006315657	CENPS;CENPS-CORT
chr18	48345906	48346843	*	11	0.005211665	-0.024738894	-0.007327893	MRO
chr7	48702963	48703665	*	4	0.005227335	0.027492606	0.013596207	NA
chr6	78172192	78174286	*	15	0.005227971	-0.017360678	-0.004321439	HTR1B
chr3	85007959	85008991	*	11	0.005237457	-0.024790368	-0.004900412	CADM2
chr4	3726450	3726836	*	3	0.005243282	-0.016694112	-0.01381752	NA
chr1	3182620	3183072	*	3	0.005249693	0.026734942	0.003926822	PRDM16
chr2	106776571	106777215	*	6	0.00525212	-0.012615471	-0.004703563	UXS1
chr6	170596856	170598215	*	7	0.005254784	-0.036532627	-0.015744034	DLL1
chr4	20985623	20986246	*	7	0.005256458	-0.027635984	-0.012610029	KCNIP4
chr4	42398518	42399484	*	7	0.005268892	-0.011306821	-0.004744814	SHISA3
chr19	49636270	49636594	*	3	0.005273815	0.04666002	0.029240507	PPFIA3
chr7	92461971	92462936	*	6	0.005282827	-0.011483006	-0.000543237	CDK6
chr5	170813996	170814878	*	16	0.005291325	0.025420574	0.004013667	MIR3912;NPM1
chr3	101292669	101293068	*	11	0.005298936	-0.010183209	-0.003136446	PCNP
chr20	49574938	49575492	*	12	0.005301547	-0.010936097	-0.002388989	DPM1;MOCS3
chr5	59064235	59064682	*	11	0.00531136	-0.029351754	-0.010286565	PDE4D
chr19	35068221	35068788	*	5	0.005312907	-0.027344883	-0.010562136	SCGB1B2P
chr9	138966848	138967872	*	6	0.005329577	0.027274808	0.008081024	NACC2
chr12	113795897	113796846	*	9	0.005333839	0.025533521	0.004712014	PLBD2
chr2	220348515	220349208	*	6	0.005334716	-0.042265825	-0.010366489	SPEG
chr13	113199311	113200144	*	5	0.005334746	0.034524509	0.009444131	TUBGCP3
chr16	85539811	85540731	*	3	0.005336297	-0.039651891	-0.018908936	NA

chr22	42196285	42197038	*	11	0.005338902	0.01981493	-0.002075806	CCDC134
chr3	111717534	111718457	*	14	0.005354906	-0.016564547	-0.009299046	TAGLN3
chr10	134844217	134844771	*	5	0.005356794	-0.040860565	-0.014377622	NA
chr15	93197833	93199536	*	16	0.005357399	0.023531251	0.000125748	FAM174B
chr1	175985115	175986331	*	5	0.005379113	-0.028558787	-0.003294629	COP1
chr16	30485296	30485966	*	7	0.005381015	0.02190597	0.01541582	ITGAL
chr1	36771493	36773099	*	15	0.005401161	0.032770703	0.001928713	SH3D21
chr20	33879989	33881762	*	12	0.005403129	0.025781109	0.010473476	FAM83C
chr10	48439216	48439452	*	8	0.005406749	-0.028245603	-0.011184385	GDF10
chr6	155450088	155450882	*	4	0.005413381	-0.022446306	-0.00622527	TIAM2
chr16	10674008	10675123	*	12	0.005420747	-0.016845768	-0.001539391	EMP2
chr21	46685154	46686430	*	6	0.005424448	-0.033653142	0.003059261	POFUT2
chr10	23479993	23480237	*	4	0.005428548	-0.016402631	-0.010605902	PTFLA
chr19	56651829	56652545	*	11	0.005433568	-0.010373296	-0.00128829	ZNF444
chr15	99499605	99499719	*	3	0.005440054	-0.029301838	-0.023460965	IGF1R
chr1	48191436	48191880	*	3	0.005440383	-0.029480368	-0.013935714	NA
chr14	75469661	75470314	*	5	0.005443242	0.009035051	0.001108955	EIF2B2
chr7	30959709	30960418	*	5	0.005458336	-0.025777733	-0.008591388	AQP1
chr6	43043516	43044371	*	7	0.005464051	-0.010303851	-0.00212977	PTK7
chr2	120005223	120005755	*	6	0.005481572	0.027290809	0.013157874	STEAP3
chr12	48275709	48276809	*	8	0.005485878	-0.013774944	-0.00646294	VDR
chr7	6048837	6048965	*	4	0.005491803	0.010216119	0.001702778	AIMP2:PMS2
chr3	140796013	140796183	*	4	0.005496451	-0.015233255	-0.010879899	SPSB4
chr10	108923111	108924867	*	9	0.005501899	-0.022462167	-0.012111205	SORCS1
chr18	45457451	45458243	*	7	0.005530342	-0.020431908	-0.011029494	SMAD2
chr11	20229517	20230330	*	5	0.005532102	-0.019029312	-0.017087287	NA
chr6	27804866	27806842	*	13	0.005537112	-0.046210101	-0.004515597	H2AC15:H2BC15
chr12	42326382	42326707	*	3	0.00555627	-0.016791593	-0.012128244	NA
chr16	68321421	68321730	*	6	0.005557189	-0.021629005	-0.012784393	SLC7A6
chr20	62421032	62421950	*	5	0.005557189	-0.033024587	0.002443608	ZBTB46
chr2	38604442	38604853	*	4	0.005559825	-0.024760493	-0.002493097	ATL2
chr3	12392792	12393021	*	3	0.005575742	-0.022625419	-0.012691305	PPARG
chr7	140103619	140104222	*	8	0.005576911	-0.014858758	-0.007868847	RAB19
chr4	52708582	52709895	*	12	0.005579823	-0.03780442	-0.004586596	DCUNID4
chr9	35689475	35690395	*	8	0.005588474	0.039820734	0.012354543	TPM2
chr17	79800859	79801920	*	10	0.005602698	-0.030434806	-0.006270666	P4HB
chr19	10220013	10220911	*	10	0.005604053	-0.018201847	-0.001937606	P2RY11:PPAN:PPAN:P2RY11:SNORD105B
chr1	9351985	9352663	*	5	0.005617419	0.024377349	0.008972804	SPSB1
chr6	30042137	30043418	*	26	0.00562156	0.025920003	-0.001425697	RNF39
chr6	45389313	45391973	*	20	0.005623479	-0.024754544	-0.004254759	RUNX2
chr3	15642568	15643903	*	27	0.005624669	-0.014826175	-8.99E-05	BTD:HACL1
chr10	115613834	115614541	*	19	0.005626189	-0.012533412	-0.00210749	DCLRE1A:NHLRC2
chr10	88295210	88295591	*	4	0.005626189	0.030941246	0.012452379	NA
chr4	101111617	101112395	*	9	0.005633036	-0.016777351	-0.006140492	DDIT4L
chr16	55512521	55515248	*	22	0.005633635	-0.029914344	-0.005211354	MMP2
chr3	127633887	127634459	*	9	0.005654615	0.032389433	0.00979673	KBTBD12
chr15	25319113	25320195	*	4	0.005662715	-0.03342423	-0.01132632	IPW:SNORD116-10;SNORD116-11;SNORD116-12;SNORD116-13
chr22	36019252	36019632	*	5	0.005670402	0.008360041	-0.001233801	MB
chr12	57587701	57588350	*	9	0.005673121	0.01691118	0.002588796	LRP1:MIR1228
chr4	5890358	5890751	*	7	0.005673121	-0.016924453	-0.005082064	CRMP1
chr20	707906	708659	*	3	0.005673121	0.027542019	0.006082301	NA
chr1	32929715	32931036	*	15	0.005673381	-0.014815195	-0.003616974	ZBTB8A:ZBTB8B
chr20	30795258	30796171	*	13	0.005673381	-0.01581903	-0.001404319	PLAGL2:POFUT1
chr5	101834136	101835072	*	10	0.005673381	0.025915612	0.011058772	SLC06A1
chr4	2427356	2428172	*	5	0.005678807	0.021736376	0.009378804	CFAP99
chr4	183245061	183245618	*	5	0.005694729	0.020965583	-0.001588155	TENM3
chr8	26150452	26150784	*	3	0.005698148	0.01139737	0.007071752	PPP2R2A
chr5	148651771	148652108	*	3	0.005700091	-0.007477964	-0.004096954	AFAP1L1
chr12	752290	753199	*	9	0.005707633	0.021153914	0.009056121	NINJ2
chr17	35165324	35166190	*	5	0.005710217	-0.023497235	-0.010033202	NA
chr17	48474379	48475619	*	11	0.005716472	-0.034523155	-0.007598907	LRRC59
chr12	51403056	51403474	*	5	0.005729254	-0.014868999	-0.006776839	SLC11A2
chr1	36553577	36555392	*	11	0.005729716	-0.026552785	-0.001452633	ADPRS:TEKT2
chr1	154377091	154377621	*	9	0.005736902	-0.016106676	-0.007327411	IL6R
chr22	24819482	24820655	*	7	0.005736902	0.016434561	0.007163568	ADORA2A:SPECC1L
chr8	142278132	142278585	*	5	0.005760001	0.018096895	0.00532039	NA

chr18	13824072	13824396	*	5	0.005768042	-0.015392239	-0.004189467	MC5R
chr13	113121107	113121632	*	4	0.005769802	0.019004812	0.0087651	NA
chr15	100272053	100272751	*	3	0.005774582	0.024971029	0.022130216	LYSMD4
chr10	102510356	102510568	*	3	0.005796435	-0.033626704	-0.015250466	PAX2
chr13	41935539	41936259	*	3	0.005807794	-0.028093082	-0.014707327	NAA16
chr20	58629939	58630954	*	7	0.005810528	-0.020400353	-0.007669198	C20orf197
chr4	901785	902074	*	3	0.005812164	-0.032787839	-0.013447335	GAK
chr19	3785573	3786125	*	3	0.00581327	-0.018512744	-0.009840787	MATK
chr5	1033518	1034307	*	5	0.00581707	0.015161421	-0.000924262	NKD2
chr14	105553150	105554214	*	5	0.005817833	0.013242895	0.004515884	NA
chr3	13008800	13010184	*	16	0.005843129	-0.032646136	-0.004262267	IQSEC1
chr7	1908250	1908745	*	5	0.005857899	0.020154449	0.006956925	MAD1L1
chr19	2782678	2783156	*	3	0.005864542	-0.008857124	-0.006978628	SGTA:THOP1
chr4	88312323	88313064	*	10	0.005865514	-0.048633441	-0.012705978	HSD17B11
chr3	107809116	107810687	*	13	0.005875316	0.023459021	0.002423394	CD47
chr3	194118478	194119188	*	7	0.005878908	-0.020201986	-0.006193595	GP5
chr2	121303344	121304074	*	3	0.005882924	0.023338582	0.00049358	NA
chr13	92050483	92051154	*	11	0.005896745	-0.029558447	-0.008453583	GPC5
chr13	103719706	103720206	*	3	0.005896745	-0.026235768	-0.004553921	SLC10A2
chr17	80315917	80316908	*	4	0.005897592	-0.022575814	-0.006544945	TEX19
chr12	34464089	34464939	*	3	0.005899704	-0.025324769	-0.021835354	NA
chr10	98588227	98588605	*	4	0.005909442	0.035034165	0.006846575	LCOR
chr1	161100749	161101135	*	4	0.00591479	0.016129829	0.008719602	DEDD
chr2	50116848	50117117	*	3	0.005920898	-0.037024385	-0.003675729	NA
chr7	100423987	100424532	*	3	0.005920898	0.010099976	0.00244131	EPHB4
chr3	118891705	118892461	*	7	0.005929926	-0.034261389	-0.016100563	UPK1B
chr4	111532410	111533547	*	8	0.005930982	-0.012062524	-0.004132052	NA
chr19	11958966	11960208	*	6	0.005936356	0.014223202	-0.001115229	ZNF439
chr1	1475143	1476269	*	9	0.005938146	-0.032230402	-0.000740059	TMEM240
chr15	42066071	42066822	*	10	0.00595158	0.005898596	0.000517211	MAPKBP1
chr2	74668072	74669573	*	13	0.005953825	0.035943079	0.017622867	RTKN
chr11	64013441	64015574	*	16	0.005964352	0.020348372	0.001076309	PLCB3:PPP1R14B
chr10	135050343	135052004	*	27	0.005976156	0.028732366	0.00747605	VENTX
chr1	75198211	75199496	*	15	0.005977158	-0.025586008	-0.009198753	CRYZ:TYW3
chr10	79396127	79397075	*	5	0.005978517	0.021328162	0.010632361	KCNMA1
chr2	32490589	32491049	*	6	0.005995378	-0.023258427	-0.008732615	NLR4
chr10	125732373	125732842	*	4	0.00599939	-0.034235729	-0.013052595	NA
chr1	6187633	6188136	*	5	0.006016966	-0.060834895	-0.028555293	CHD5
chr4	100273969	100274565	*	4	0.006016966	0.037245751	0.019428961	ADH1C
chr2	236577585	236578808	*	8	0.006019733	0.017218522	-0.00049538	AGAP1
chr4	57181855	57182417	*	3	0.006019733	0.027938442	0.01387808	CRACD
chr7	22765321	22766155	*	5	0.006020531	0.023648075	0.01161965	IL6
chr3	48486890	48487471	*	3	0.006024354	0.021491721	0.016288179	ATRIP
chr8	26433537	26434069	*	4	0.006029793	0.030141247	0.02019256	DPYSL2
chr8	145082140	145082728	*	3	0.006049135	0.028811718	0.006038664	SPATC1
chr20	44419733	44421026	*	17	0.006049926	-0.022153776	-0.003750813	DNTT1P1:WFDC3
chr2	33151557	33152037	*	3	0.006049926	-0.02553849	-0.005851795	LINC00486
chr15	65203541	65204428	*	13	0.006051237	0.02638892	0.001363721	ANKDD1A
chr12	122230490	122230972	*	3	0.00606801	0.015203789	0.006510861	RHOF
chr13	112861499	112862112	*	4	0.006073538	-0.039201525	-0.029187203	NA
chr1	2207859	2208225	*	3	0.006073538	-0.02668511	-0.015999838	SKI
chr4	7048059	7048926	*	6	0.006080249	0.023936675	0.009205125	CCDC96:LOC100129931:TADA2B
chr1	95392125	95393138	*	10	0.006085472	-0.02308428	-0.006730732	CNN3:CNN3-D1
chr22	22555873	22556540	*	4	0.006085472	-0.026521516	0.000116626	NA
chr6	127839822	127840334	*	6	0.006090182	-0.018182991	-0.005835561	SOGA3
chr5	139742283	139743303	*	3	0.006098369	0.026373063	0.013505983	SLC4A9
chr7	1913505	1914523	*	6	0.006100933	0.027401711	0.011737291	MAD1L1
chr10	32344997	32346148	*	13	0.00610879	0.02099327	-0.002922341	KIF5B
chr6	10412073	10413394	*	9	0.00610879	0.023228222	0.00213842	TFAP2A:TFAP2A-AS1
chr9	129676656	129677882	*	11	0.006118226	-0.024544925	-0.009506366	RALGFS1
chr6	30457711	30458730	*	18	0.006120223	-0.017753828	-0.003153817	HLA-E
chr2	218898491	218898788	*	3	0.006132479	0.021024622	0.017592625	RUFY4
chr19	2307901	2308653	*	8	0.006134209	-0.015382837	-0.005782006	LINGO3:SPPL2B
chr19	37340642	37341870	*	18	0.006142801	-0.031690764	-0.001137166	ZNF345:ZNF790
chr8	38830814	38831857	*	10	0.00614728	-0.019760589	-0.007718041	HTRA4:PLEKHA2
chr18	29598757	29599349	*	4	0.00614728	-0.008726591	-0.002874498	RNF125

chr4	89744279	89744963	*	6	0.006176859	-0.011915936	-0.004285224	FAM13A
chr1	209957965	209958678	*	9	0.006178619	-0.017758722	-0.005474861	C1orf74
chr8	6795989	6796618	*	6	0.006190687	-0.019184348	-0.010714735	DEFA4
chr9	139871820	139872839	*	5	0.006194563	0.033644045	0.002236151	LCNLI;PTGDS
chr16	85110539	85111583	*	3	0.006194918	0.02259583	0.019103483	KIAA0513
chr12	81329566	81330609	*	5	0.006195055	0.034155322	0.010238005	LIN7A;MIR618
chr22	33195343	33196425	*	10	0.006198244	0.025588275	0.004325429	SYN3;TIMP3
chr8	142950423	142950502	*	3	0.006199685	-0.038403272	-0.016069227	NA
chr14	106015750	106016106	*	3	0.006199685	0.019090293	0.00689657	NA
chr13	113582793	113583686	*	3	0.00620233	-0.030608621	-0.022183431	NA
chr6	159240453	159241461	*	8	0.006218395	-0.017468476	-0.001965617	EZR;EZR-AS1
chr3	114012316	114012912	*	5	0.006230947	0.028269623	0.011742083	TIGIT
chr5	178957344	178957930	*	4	0.006235153	0.012155648	0.002822701	NA
chr7	30028890	30030138	*	16	0.00624941	0.049525781	0.000582477	SCRNI
chr1	2426693	2427655	*	4	0.00624941	-0.020984995	-0.000451297	PLCH2
chr12	130936355	130937365	*	7	0.006256097	-0.035588384	-0.008994032	RIMBP2
chr11	66496615	66497215	*	4	0.006278441	0.024757491	0.017612915	NA
chr8	67038980	67039461	*	7	0.006283273	0.025900922	0.009802032	TRIM55
chr22	46465717	46466858	*	7	0.006283376	-0.038012172	-0.013681715	MIRLET7BHG
chr19	5210505	5210847	*	5	0.006284096	0.012629366	0.009465785	PTPRS
chr5	155753336	155754265	*	5	0.006296295	0.039299687	0.012680442	SGCD
chr2	467799	468330	*	4	0.006298841	0.027398472	0.005187518	NA
chr12	1939964	1940652	*	6	0.006316245	-0.025830422	-0.008264538	CACNA2D4;LRTM2
chr8	143580965	143581481	*	3	0.006321081	-0.050235829	-0.035498697	ADGRB1
chr4	106816089	106817015	*	10	0.006326615	-0.01839231	-0.004716081	NPNT
chr16	81711959	81712102	*	3	0.006332359	0.053729345	0.031636215	CMIP
chr14	92587796	92588818	*	12	0.006334195	0.013200989	0.002556803	CPSF2;NDUFB1
chr6	3023598	3024178	*	6	0.006340352	-0.018896558	-0.006932732	HTATSF1P2
chr8	11302983	11303067	*	3	0.006341817	0.023259371	0.01803937	FAM167A
chr1	150551925	150552817	*	17	0.006357925	0.016199337	-0.00154206	MCL1
chr5	161274307	161275588	*	17	0.0063673	-0.012108353	-0.005053591	GABRA1
chr10	13424851	13425688	*	6	0.006381208	-0.020989313	-0.012017446	NA
chr8	6665912	6666452	*	3	0.006381208	0.026534545	0.012796322	XKR5
chr17	4900256	4901584	*	18	0.006387514	0.022241432	0.000898204	INCA1;KIF1C
chr7	157451243	157451618	*	4	0.006394197	0.022682959	0.00408384	PTPRN2
chr19	5752188	5753221	*	3	0.006394358	0.021992492	0.009862964	CATSPERD
chr12	6874105	6875642	*	9	0.006397703	0.035666938	-0.002146202	MLF2;PTMS
chr1	47691301	47691845	*	6	0.00641148	-0.026977785	-0.006006681	TAL1
chr19	55549414	55550348	*	11	0.006415298	0.033576906	0.021400132	GP6;RDH13
chr4	73178533	73179086	*	3	0.006426401	0.018292472	0.005290326	ADAMTS3
chr6	42927940	42928773	*	25	0.00643739	-0.022363948	-0.007355975	GNMT
chr16	87492071	87492801	*	5	0.006449139	0.015727015	-0.000800119	ZCCHC14
chr17	58225949	58227745	*	11	0.006458652	0.026220716	0.000246978	CA4
chr7	116592956	116594430	*	21	0.006462068	0.02502798	-0.001477084	ST7;ST7-AS1;ST7-OT4
chr5	133772283	133773142	*	5	0.006472413	-0.01983199	-0.009345467	NA
chr8	145024637	145025178	*	7	0.006477839	0.024645005	0.011303763	PLEC
chr12	39538604	39539558	*	6	0.006479627	0.019374437	0.016246767	NA
chr2	239036809	239037533	*	6	0.006479656	-0.039916903	-0.024482411	ESPNL
chr14	24550845	24551212	*	6	0.006488876	0.027231777	0.010364726	NRL
chr1	3620638	3621445	*	5	0.006501995	-0.027947903	-0.016117193	TP73
chr2	97651765	97652806	*	9	0.006529285	0.025596862	0.007291823	FAM178B
chr16	1198408	1199222	*	6	0.006539868	0.017075478	0.008046679	CACNA1H
chr11	59210634	59211431	*	3	0.006544938	0.021258318	0.008789848	OR5A1
chr1	151019727	151020868	*	11	0.006570192	0.009607081	0.002146511	BNIP1;C1orf56
chr1	56724194	56725058	*	5	0.006574638	0.024437059	0.010331429	NA
chr10	103879827	103880419	*	9	0.006577668	-0.008019827	-0.004184326	LDB1
chr3	11195673	11196445	*	7	0.006582668	-0.021148399	0.000541813	HRH1
chr6	32036530	32038155	*	27	0.006591555	0.022878852	0.005356237	TNXB
chr7	100239172	100239764	*	4	0.006593109	-0.025556506	-0.013140158	TFR2
chr7	22893924	22894898	*	8	0.006597785	0.019049135	0.005308693	SNORD93
chr16	18812258	18813278	*	14	0.006600905	-0.031417926	-0.003450229	ARL6IP1
chr6	101846791	101847656	*	13	0.006601991	0.024788078	0.002787613	GRIK2
chr5	72596701	72597316	*	6	0.006601991	-0.015727545	-0.00788054	NA
chr17	27070369	27071119	*	9	0.006603717	0.027942496	0.002375077	TRAF4
chr21	19858957	19859472	*	3	0.006617658	0.019347596	0.001996817	NA
chr4	89642483	89642760	*	3	0.006619128	0.013640596	0.008679472	FAM13A-AS1

chr2	236504134	236504635	*	3	0.006632354	-0.016980722	-0.008775778	AGAP1
chr19	13133343	13133825	*	4	0.006644878	-0.019227921	-0.010886422	NFIX
chr6	32820355	32822043	*	45	0.006648488	-0.029626704	-0.00153454	PSMB9;TAP1
chr12	32111966	32113101	*	13	0.006653562	-0.024793478	-0.002155175	RESF1
chr1	14219640	14220614	*	7	0.006653562	-0.035607078	-0.007006692	NA
chr1	9970042	9971115	*	16	0.006659918	-0.02115584	-0.005711814	CTNNBIP1
chr21	44072610	44073555	*	5	0.006664863	0.020847216	0.008236089	PDE9A
chr7	1057285	1057944	*	4	0.006667486	0.029890063	0.016278403	C7orf50
chr19	11093459	11094931	*	8	0.006677984	0.012566448	-0.001132179	SMARCA4
chr16	426536	427756	*	6	0.006688625	0.030015267	0.010256582	LOC100134368;PGAP6
chr11	119055760	119056215	*	3	0.006688625	-0.019469356	0.005213119	PDZD3
chr10	114911442	114912149	*	6	0.006691019	-0.017197279	-0.009897289	TCF7L2
chr14	74352920	74353709	*	11	0.006692778	0.018664349	0.002317824	ZNF410
chr10	103648988	103649718	*	3	0.006692778	-0.032728066	-0.00477993	ARMH3
chr15	91499369	91500193	*	6	0.006701219	0.030800007	0.019167047	RCCD1
chr9	90112086	90114156	*	21	0.006723832	-0.020498677	-0.005728172	DAPK1
chr6	28602513	28603437	*	34	0.006730098	-0.027361498	-0.002707009	NA
chr4	171011099	171011760	*	15	0.006752832	-0.016790705	-0.002457716	AADAT
chr1	158223034	158223934	*	5	0.006773501	-0.046446769	-0.008441203	CD1A
chr19	3162628	3163454	*	7	0.00679015	0.023242133	0.012135477	GNAI5
chr3	194868427	194868843	*	6	0.006794637	-0.033494415	-0.015609631	XXYLT1;XXYLT1-AS2
chr4	101596281	101596970	*	6	0.006798355	0.031568376	0.01410541	LINC01216
chr5	42423947	42425093	*	13	0.006806946	-0.020826152	-0.006048988	GHR
chr8	143915496	143916385	*	11	0.006806946	0.041054901	0.014141221	GML
chr17	46018654	46019184	*	14	0.006814354	-0.024040173	-0.006886146	PNPO
chr19	14196326	14197848	*	12	0.006820979	0.036611319	0.009019095	C19orf67
chr5	16737972	16738723	*	5	0.006822347	0.024545045	0.013065608	MYO10
chr22	30818470	30819402	*	4	0.006824119	-0.011545593	-0.000457666	MTFPI1;SECI4L2
chr11	63764177	63764925	*	5	0.006827473	-0.015202502	-0.002078004	OTUB1
chr12	7818585	7819180	*	4	0.006827473	-0.035795637	0.007572476	APOBEC1
chr16	11369940	11370688	*	10	0.006827778	0.027930982	0.009918114	PRM2;PRM3;RM12
chr8	145747659	145748901	*	6	0.006830009	0.022606069	0.003960548	LRRC14;LRRC24;RECQL4
chr17	1268443	1269083	*	4	0.006837216	-0.026339451	-0.008238117	YWHAE
chr16	85074359	85075249	*	6	0.006839347	0.032826677	0.005336808	KIAA0513
chr13	28024329	28024921	*	16	0.006862052	-0.028609138	0.000156386	MTIF3
chr14	104195181	104196038	*	6	0.006867779	0.027488202	-0.004913069	ZFYVE21
chr9	140195998	140197048	*	8	0.006868233	-0.014687067	-0.001500532	NRARP
chr12	4140243	4140993	*	4	0.006874935	0.017893227	0.004557169	NA
chr9	138436220	138437177	*	3	0.0068764	0.020351268	0.007824418	OBP2A
chr6	168122077	168123805	*	9	0.006884677	-0.04601952	0.001047006	NA
chr20	36662217	36663290	*	5	0.006888669	0.024498967	0.007179377	RPRD1B;TTI1
chr2	3496821	3497214	*	3	0.006938171	0.028948303	-0.000555259	NA
chr4	159592191	159593775	*	18	0.006940216	-0.011000518	-0.001548961	C4orf46;ETFHDH
chr4	21305490	21306181	*	8	0.006945821	-0.020741544	-0.006917072	KCNIP4
chr2	239432223	239432329	*	3	0.006957554	-0.035856098	-0.025955557	LINC01107
chr9	136075279	136076059	*	4	0.006970061	0.028350642	-0.007575892	NA
chr18	77442923	77443784	*	3	0.006970061	-0.031416228	-0.024272818	CTDPI
chr17	10600507	10602034	*	16	0.006970096	-0.028972424	0.000444215	ADPRM;SCO1
chr7	122527351	122527522	*	4	0.006970535	-0.013435309	-0.006183421	CADPS2
chr15	89455860	89456239	*	3	0.006975725	-0.036742216	-0.014029093	MFGES
chr3	196755973	196756877	*	6	0.00699477	-0.025939733	-0.008571144	MELTF
chr2	95831031	95831943	*	10	0.007019807	-0.013081779	-0.002104868	ZNF2
chr5	175298571	175298869	*	3	0.007045222	-0.035224905	-0.013551148	CPLX2
chr14	96505296	96505874	*	13	0.007051786	-0.010137051	-0.000447002	C14orf132
chr5	140718283	140719142	*	10	0.007062731	-0.027954479	-0.006137542	PCDHGA1;PCDHGA2;PCDHGA3
chr12	52827847	52828840	*	8	0.00707535	0.021765649	0.001633142	KRT75
chr15	52861545	52862406	*	8	0.007082289	0.015853492	0.004046584	ARPP19
chr17	4692162	4692790	*	5	0.007088078	0.030862945	0.010111291	GLTPD2;VMO1
chr1	27989987	27990967	*	3	0.007101192	0.01595944	0.000555753	NA
chr9	95857577	95858671	*	13	0.007110248	-0.034389509	-0.007346657	CARD19
chr3	167813835	167814230	*	5	0.00711108	-0.005620645	-0.00233205	GOLIM4
chr1	160681404	160682655	*	9	0.007120874	-0.01087152	-0.005765485	CD48
chr6	75982940	75983278	*	3	0.007127134	-0.01750491	-0.015766057	TMEM30A
chr7	157579211	157579880	*	3	0.007135693	0.021397262	0.015937989	PTPRN2
chr1	68150193	68151160	*	9	0.007136745	-0.00960796	-0.002358654	GADD45A
chr1	38259884	38260410	*	5	0.007144141	0.011684588	0.003745892	MANEAL

chr16	89005476	89006877	*	11	0.007147894	-0.020093333	-0.005133275	<i>CBFA2T3</i>
chr8	41167278	41168186	*	9	0.007187199	-0.031822188	-0.003386987	<i>SFRP1</i>
chr9	135285195	135286214	*	11	0.007197487	0.023820155	0.003381464	<i>CFAP77:TF1</i>
chr18	56886915	56887785	*	12	0.007213202	-0.012021943	-0.005066046	<i>GRP</i>
chr2	45236267	45237431	*	9	0.007221844	-0.011571203	-0.001835958	<i>SIX2</i>
chr3	52091063	52091829	*	6	0.007242981	0.014632564	0.001641669	<i>DUSP7</i>
chr13	79169714	79171230	*	14	0.007247149	-0.0179797	-0.003177439	<i>OB1-AS1</i>
chr20	1246100	1247058	*	9	0.007248175	0.043969624	0.010555	<i>SNPH</i>
chr7	142630597	142631266	*	5	0.007263024	0.015301769	0.008371306	<i>TRPV5</i>
chr9	138985942	138986379	*	4	0.007266051	0.017731575	0.009571731	<i>NACC2</i>
chr4	150998949	150999949	*	15	0.007271705	-0.011865669	-0.003296367	<i>DCLK2</i>
chr17	79633202	79634204	*	16	0.00729943	-0.01457236	-0.003347523	<i>CCDC137:OXLD1</i>
chr12	51717674	51719349	*	14	0.007314773	-0.04011549	-0.009058176	<i>BIN2</i>
chr22	39953557	39954239	*	5	0.00731919	0.0233839	-0.000777304	<i>NA</i>
chr10	73516760	73517463	*	5	0.007350087	-0.020748568	-0.012294563	<i>CDH23:VSIR</i>
chr12	14132940	14133887	*	9	0.007357326	-0.032402116	-0.004266192	<i>GRIN2B</i>
chr7	2646782	2648785	*	12	0.007374193	0.024859322	0.005280171	<i>IQCE</i>
chr10	90640622	90641389	*	3	0.007383476	0.019742746	0.00282255	<i>STAMBP1L</i>
chr19	49149933	49150388	*	3	0.007389498	0.012834776	0.001568976	<i>CA11:SEC1P</i>
chr15	91497412	91498367	*	11	0.007395313	-0.01751918	-0.001568275	<i>RCCD1</i>
chr7	128864205	128864907	*	6	0.007395683	-0.007494367	-0.000236375	<i>AHCYL2</i>
chr16	12995603	12996419	*	6	0.00739644	-0.016651241	-0.005858924	<i>SHISA9</i>
chr12	133405852	133406309	*	3	0.007396854	-0.013471117	-0.001777497	<i>GOLGA3</i>
chr8	144922348	144923606	*	9	0.007399524	-0.038988989	-0.008666314	<i>NRBP2</i>
chr2	239046275	239047336	*	8	0.007404473	0.028669133	0.007593885	<i>KLHL30</i>
chr19	35629273	35630651	*	17	0.00740831	0.02312439	0.002326144	<i>FXYD1:FXYD7:LG14</i>
chr3	172859699	172860467	*	4	0.007412295	0.043220935	0.015455402	<i>SPATA16</i>
chr2	129202959	129203409	*	3	0.007414928	0.025147445	0.009634568	<i>NA</i>
chr15	71952725	71953221	*	3	0.007414928	0.015375002	0.012925101	<i>THSD4</i>
chr5	125514187	125514911	*	3	0.007425751	0.025322404	0.000694155	<i>NA</i>
chr12	116756805	116756948	*	3	0.007427494	-0.020649333	-0.010970685	<i>NA</i>
chr6	33283770	33285470	*	24	0.007434326	0.015995916	0.005494177	<i>TAPBP:ZBTB22</i>
chr10	88728947	88729861	*	7	0.007446092	0.026667448	0.01314635	<i>ADIRF:AGAP11</i>
chr5	157001092	157002175	*	5	0.007451956	0.026810893	0.008026186	<i>ADAM19</i>
chr11	18416535	18418093	*	12	0.007457488	-0.009127717	-0.001696838	<i>LDHA</i>
chr6	30657882	30659043	*	20	0.007459369	-0.031559188	-0.003195452	<i>NRM:PPP1R18</i>
chr19	17830116	17831088	*	11	0.007462633	-0.013427724	-0.00393098	<i>MAP1S</i>
chr8	13423496	13424483	*	10	0.007462836	-0.013675802	-0.003597934	<i>C8orf48</i>
chr1	166853278	166853960	*	6	0.007463833	0.019370489	0.005365686	<i>NA</i>
chr15	89560878	89561135	*	3	0.007466691	-0.031682771	-0.009386004	<i>NA</i>
chr2	45159663	45161333	*	13	0.007477544	-0.027290224	-0.007073125	<i>NA</i>
chr3	126242379	126243401	*	13	0.007480481	-0.022973069	0.001214413	<i>CHST13</i>
chr18	24764966	24765880	*	11	0.007481814	-0.018644169	-0.008443693	<i>AQP4-AS1:CHST9</i>
chr22	38851884	38852154	*	4	0.007489488	-0.017637069	-0.012034453	<i>KCNJ4</i>
chr1	34641601	34642609	*	12	0.007491787	0.023682886	0.010901916	<i>C1orf94</i>
chr20	57267176	57267680	*	7	0.007500868	0.030077834	0.016370234	<i>NPEPL1</i>
chr5	34007809	34008663	*	14	0.007510412	-0.028468761	-0.005006052	<i>AMACR</i>
chr1	4832380	4832865	*	5	0.007512025	0.018669365	0.012815455	<i>AJAP1</i>
chr5	133450709	133452188	*	11	0.007521281	0.01971501	0.002472368	<i>TCF7</i>
chr6	41374532	41375153	*	4	0.007534749	0.050549935	0.031350482	<i>NA</i>
chr19	12901966	12902806	*	8	0.007539824	-0.007995591	-0.00344583	<i>JUNB</i>
chr1	119531857	119532925	*	14	0.007553275	0.026473831	0.000215977	<i>TBX15</i>
chr7	751830	753007	*	15	0.007567225	-0.049538186	-0.003619059	<i>PRKAR1B</i>
chr9	139096080	139096889	*	5	0.007567225	-0.034095665	-0.014585973	<i>LHX3</i>
chr9	125795488	125796611	*	8	0.007581751	-0.015756381	-0.010240707	<i>GPR21:RABGAP1</i>
chr4	172733760	172734843	*	13	0.00758248	-0.038315158	-0.008704695	<i>GALNTL6</i>
chr18	10414355	10414962	*	4	0.007584474	0.016863735	0.013477621	<i>NA</i>
chr20	62130111	62131189	*	7	0.007604211	-0.030459379	-0.011102257	<i>EEF1A2</i>
chr10	3145966	3146549	*	6	0.007606421	0.020962629	0.010688058	<i>PFKP</i>
chr22	41346948	41348222	*	9	0.007609622	-0.017665246	-0.003419521	<i>RBX1:XPNPEP3</i>
chr16	1349178	1349861	*	5	0.007612885	0.020536638	0.003987196	<i>NA</i>
chr14	35590656	35591840	*	20	0.007627647	0.012742182	9.39E-05	<i>PPP2R3C:PRORP</i>
chr3	64430390	64431038	*	7	0.007632054	-0.015592364	-0.003413822	<i>NA</i>
chr19	51980685	51980908	*	3	0.007632054	-0.067249187	-0.034346322	<i>CEACAM18</i>
chr2	121411622	121412432	*	5	0.007653683	-0.03461369	-0.01803478	<i>NA</i>
chr13	53312966	53313529	*	3	0.007664958	-0.007440138	-0.002943065	<i>CNMD</i>

chr1	208041879	208042623	*	5	0.007665102	-0.013261763	-0.001462388	NA
chr14	37641191	37642356	*	12	0.007674999	0.03257627	-0.001053433	SLC25A21;SLC25A21-AS1
chr1	203241948	203242950	*	9	0.007695809	0.021610465	0.004258889	CHIT1
chr3	143691715	143692356	*	12	0.007753037	0.016192009	0.003560512	DIPK2A
chr3	148804272	148805294	*	25	0.007763244	0.022829111	0.002118098	HLTF;HLTF-AS1
chr5	73937141	73937762	*	8	0.007763244	0.01627545	0.000712006	ENC1;HEXB
chr22	36903611	36904394	*	3	0.007763244	0.017423597	-0.003409226	FOXRED2
chr8	6785692	6786083	*	6	0.00777264	-0.04226664	-0.006032297	DEFA6
chr17	79225309	79226323	*	7	0.007791106	-0.034336811	-0.011055029	SLC38A10
chr17	6347791	6348225	*	7	0.007791106	0.037714156	0.008268248	PIMREG
chr17	73043062	73043736	*	10	0.007823836	-0.010398315	-0.00071943	ATP5PD;KCTD2
chr21	45936193	45937406	*	8	0.007833672	-0.026446833	-0.004389876	TSPEAR;TSPEAR-AS2
chr10	128994297	128995478	*	11	0.007837608	-0.024409878	-0.010776012	DOCK1-INSY2A
chr2	233739771	233740203	*	3	0.007837608	0.01760348	0.006679865	SNORC
chr19	14800564	14801245	*	10	0.007854796	-0.026130678	-0.005950252	ZNF333
chr7	151330008	151330288	*	5	0.007855446	-0.008266771	-0.005974838	PRKAG2
chr2	206546299	206547163	*	9	0.007856618	-0.016452874	-0.004336596	NRP2
chr2	175204249	175205716	*	5	0.00786044	-0.009850297	-0.000616299	NA
chr8	142401373	142403574	*	9	0.007868104	0.040385548	0.018250824	NA
chr19	4277333	4278055	*	4	0.007869259	0.035362351	0.00512388	SHD
chr11	6947759	6948211	*	5	0.007869919	0.016064403	-0.000534251	ZNF215
chr1	1099630	1100557	*	7	0.007905924	0.032461413	0.017305351	MIR200A;MIR200B;MIR429
chr2	26986235	26986550	*	5	0.007912581	-0.023235652	0.002435292	SLC35F6
chr11	69456412	69457121	*	5	0.007938659	-0.008824265	-0.003999349	CCND1
chr17	59476790	59477846	*	14	0.007964104	0.026289972	-0.001086315	TBX2
chr9	132934195	132935030	*	8	0.007973025	0.017746495	-0.002453656	NCSI
chr16	595486	596185	*	8	0.007977565	0.025393404	0.012733758	CAPN15
chr4	1736433	1737129	*	4	0.007977698	0.018204293	0.013672737	TACC3
chr1	226288408	226288782	*	3	0.007981616	-0.020946235	-0.007021031	NA
chr2	118980919	118981783	*	5	0.007991824	0.022311955	-0.002328692	NA
chr1	247653903	247654811	*	6	0.007993337	0.018999939	0.006894012	OR2W5P
chr6	33178942	33180841	*	16	0.007994361	0.026265218	0.003869618	RING1
chr2	1291410	1291494	*	3	0.007999453	0.035262548	0.007898514	SNTG2
chr7	92076509	92077858	*	11	0.008009014	-0.021470313	-0.00260966	GATAD1
chr16	62070306	62071129	*	9	0.008009014	-0.018023759	-0.003602689	CDH8
chr18	78005180	78006141	*	12	0.008014422	-0.050891394	-0.010194208	PARDO6G
chr11	17097203	17097511	*	3	0.008014511	0.019201351	0.003686319	RPS13
chr13	95364333	95364993	*	13	0.008020643	-0.008766522	-0.00336444	SOX21
chr1	155880507	155881569	*	9	0.008030728	-0.035566981	-0.005160604	RIT1
chr16	12096413	12096947	*	3	0.008033773	-0.027763547	-0.006386535	SNX29
chr5	2751822	2752882	*	12	0.008042856	-0.019330519	-0.008472496	C5orf38;IRX2
chr16	1160642	1160722	*	3	0.008042856	-0.032616077	-0.013944598	NA
chr7	2149259	2150016	*	4	0.008046205	-0.015608355	0.001135409	MAD1L1
chr5	138629998	138630502	*	5	0.008049882	-0.038427228	-0.005910693	MATR3
chr11	76571458	76571610	*	5	0.008056623	0.020048438	0.006595271	ACER3
chr16	31558017	31558891	*	3	0.008061308	0.015123132	0.012145777	NA
chr1	1377525	1378060	*	4	0.008065176	0.027528823	0.013481801	VWAJ
chr12	133185615	133185655	*	3	0.008065176	0.0285389	0.024514796	LRCOL1
chr11	71725245	71725590	*	4	0.008066855	-0.013130544	-0.010000034	NUMA1
chr1	45805261	45807214	*	23	0.008071168	0.015770935	-0.000126356	MUTYH;TOE1
chr6	3160502	3160634	*	4	0.008074953	-0.023847373	-0.018478361	TUBB2A
chr11	58980377	58980665	*	3	0.008086991	-0.024968989	-0.013787844	MPEG1
chr6	21593587	21594320	*	10	0.008087312	-0.027530892	-0.001115231	SOX4
chr14	105766064	105767520	*	17	0.008094806	-0.020824176	-0.004037513	BRF1;PACS2
chr13	20692403	20693122	*	6	0.008101773	-0.032988158	0.007083346	NA
chr18	22932076	22932673	*	5	0.008101773	-0.009138286	-0.00411721	ZNF521
chr2	149894539	149895362	*	7	0.008103758	0.033317013	0.01183519	LYPD6B
chr11	94500612	94500965	*	3	0.008103758	0.03164574	0.019991656	AMOTL1
chr2	206627521	206628773	*	12	0.008105759	0.042102516	0.019974143	NRP2
chr5	146256776	146257484	*	4	0.008121305	0.006912674	-0.000452736	PPP2R2B
chr3	74662850	74663024	*	3	0.008122101	0.028271298	0.021282272	NA
chr5	33440240	33441304	*	13	0.008128017	-0.016855577	-0.001097088	TARS1
chr9	37029364	37030262	*	4	0.008135031	0.01782029	0.003598777	PAX5
chr19	52263233	52264429	*	7	0.008145043	-0.027567668	-0.000783526	FRP2
chr11	60282398	60282972	*	12	0.008145564	0.028245465	0.010836232	MS4A13
chr11	45672100	45673410	*	9	0.008169198	-0.03578356	-0.003497661	CHST1

chr20	44746392	44747351	*	9	0.008177555	-0.019797166	-0.006120395	CD40
chr2	74153795	74154363	*	10	0.008184584	-0.013667211	-0.00372982	DGUOK
chr13	113928287	113929010	*	3	0.008190105	-0.019689112	-0.007788617	NA
chr1	203320297	203321087	*	10	0.008191524	-0.030599525	-0.020739448	FMOD
chr1	1981657	1983033	*	7	0.008227276	0.045937578	0.012026338	PRKCZ
chr1	197871470	197872227	*	11	0.00827366	-0.011484669	-0.000724556	C1orf53
chr11	117703496	117704267	*	3	0.00827579	0.031207541	0.009295486	FXVD2:FXVD6-FXYD2
chr3	127006287	127006803	*	4	0.008295151	-0.018224167	0.002236808	NA
chr16	1034059	1034527	*	3	0.008298076	0.025040527	0.019704881	LMF1:SOX8
chr14	23503697	23504921	*	19	0.008300777	-0.016143354	-0.003849143	PSMB5
chr3	196594273	196595444	*	11	0.008318586	-0.028624509	-0.00426637	SENP5
chr19	33622856	33623230	*	10	0.008318586	0.028572112	0.016645512	WDR88
chr5	132112449	132112975	*	7	0.008318586	0.010457986	0.000632762	SEPTIN8
chr13	114282093	114282491	*	3	0.008318586	0.013601453	0.01277746	TFDP1
chr8	59571055	59571961	*	5	0.008322249	0.006087701	-0.000589082	NSMAF
chr17	45918221	45919419	*	11	0.00832315	0.026222396	0.001041195	SCRN2
chr14	25045625	25046267	*	6	0.008324433	-0.018392495	-0.006167425	CTSG
chr7	48075568	48076004	*	5	0.008326226	-0.015406858	-0.008631762	C7orf57
chr15	60285234	60287537	*	11	0.008336859	0.021044389	0.004164242	NA
chr12	124414964	124415398	*	3	0.008337979	0.020475613	0.017123823	DNAH10
chr13	111317935	111318640	*	5	0.00835265	-0.016187515	-0.012254162	CARS2
chr12	54354162	54354590	*	3	0.008356036	-0.026126374	-0.015707286	NA
chr11	73498113	73498948	*	8	0.008367236	0.024657566	0.007145731	MRPL48
chr17	48132714	48133402	*	8	0.008371233	-0.013710185	-0.005602081	ITGA3:PICART1
chr12	34755568	34756440	*	5	0.008371233	-0.02228955	-0.019172617	NA
chr6	42878931	42879409	*	3	0.008385696	0.031084304	0.019578175	PTCRA
chr21	38362230	38363160	*	9	0.008390185	0.050519275	0.01796048	HLCS
chr18	3262499	3263082	*	8	0.008416671	-0.026447243	-0.005245314	MYL12B
chr19	17531239	17531746	*	3	0.008426388	0.020505445	0.006115413	MVB12A
chr5	138289138	138289233	*	3	0.008430498	-0.007516429	-0.005882973	SIL1
chr17	74524371	74525597	*	6	0.008437772	0.018831735	0.007538448	CYGB:PRCD
chr4	8588716	8589313	*	6	0.008441867	0.026746096	0.013200911	CPZ:GPR78
chr17	79952142	79952487	*	3	0.008441867	0.028460565	0.013776868	ASPSCR1
chr19	44668862	44669612	*	13	0.00844547	-0.024866471	-0.006333557	ZNF226
chr10	94607768	94608332	*	11	0.008469451	0.023043849	-0.00322636	EXOC6
chr11	78672632	78673290	*	5	0.008473029	0.020510491	0.000125772	TENM4
chr5	150325582	150326642	*	11	0.008482686	-0.020876094	-0.003210582	ZNF300P1
chr2	220264753	220265305	*	4	0.008496258	-0.01825112	-0.009475871	DNPEP
chr6	31368461	31369119	*	3	0.008496734	-0.032640233	-0.015021247	MICA
chr11	34580349	34580491	*	3	0.008497643	0.037051009	0.024385929	NA
chr1	21877524	21877781	*	5	0.008499527	0.054197187	0.015584069	ALPL
chr14	103243389	103244199	*	3	0.008499527	-0.049441522	-0.020719442	TRAF3
chr22	50515323	50515985	*	4	0.008522135	0.027053577	0.015271327	MLC1
chr22	47022471	47023209	*	8	0.008525535	0.037107266	0.013721117	GRAMD4
chr11	66631012	66631894	*	6	0.008525535	0.029745298	0.009782165	PC
chr13	107001538	107001893	*	4	0.008543648	-0.014282376	-0.006983627	NA
chr15	72978347	72979048	*	13	0.008578116	-0.016479031	-3.63E-06	BBS4:HIGD2B
chr7	139320346	139320964	*	5	0.008594558	-0.020124567	-0.013715319	HIPK2
chr19	10120386	10121323	*	7	0.008594768	-0.023843137	-0.00616789	COL5A3:RDH8
chr3	52001778	52002969	*	9	0.00859637	-0.04230244	-0.008218717	ABHD14B:PCBP4
chr13	114291735	114292740	*	11	0.008622795	0.015436737	0.000863617	TFDP1
chr7	19812570	19813525	*	15	0.008624604	-0.01573788	-0.005540911	TMEM196
chr1	32665582	32666481	*	11	0.008629746	-0.014870058	-0.002120736	CCDC28B:IQCC
chr7	100025489	100026182	*	4	0.008640789	0.019226131	0.005121358	MEPE:ZCWPW1
chr11	7535611	7535983	*	4	0.00866702	-0.038043503	-0.020282835	PPFIBP2
chr1	151689203	151690075	*	10	0.008668834	-0.025584055	-0.010169207	CELF3:RIAD1
chr2	241807924	241808757	*	7	0.008676328	-0.017378026	0.003772825	AGXT
chr7	28998009	28998860	*	11	0.008682039	-0.01772376	-0.001217955	TRIL
chr19	4832695	4832993	*	3	0.008698583	0.025699153	0.008017035	TICAM1
chr2	219154857	219155790	*	5	0.008700807	0.011050642	0.006115779	PNKD:TMBIM1
chr2	68546467	68547655	*	16	0.008713325	-0.019845877	-0.004148175	CNRIP1
chr8	85097031	85097429	*	6	0.008713325	-0.044578092	-0.008523606	RALYL
chr2	218712695	218712871	*	4	0.008739714	-0.013939361	-0.001321486	TNS1
chr19	3960982	3961765	*	12	0.008744412	0.02605262	0.009588999	DAPK3:MIR637
chr1	33336618	33337583	*	5	0.008757113	0.03024698	0.01410008	FNDC5
chr10	81904244	81904814	*	3	0.008766822	-0.012321333	-0.010430406	PLAC9

chr6	7142024	7142638	*	5	0.008773128	0.023918856	0.015938608	<i>RREB1</i>
chr6	28863395	28864832	*	30	0.00877868	-0.03377355	-0.004176422	<i>NA</i>
chr5	180625089	180625956	*	7	0.008792188	0.025672072	0.005182481	<i>TRIM7</i>
chr20	52789646	52791541	*	15	0.008799081	-0.039208872	-0.005441161	<i>CYP24A1</i>
chr7	4814154	4814713	*	3	0.008813206	0.013665549	0.008447474	<i>AP5Z1</i>
chr14	34931026	34931822	*	7	0.008816105	-0.03661761	-0.013661976	<i>SPTSSA</i>
chr1	55464084	55465282	*	9	0.008835969	0.016961862	0.009200849	<i>BSND</i>
chr14	34529059	34529242	*	3	0.008836367	0.040167392	0.019876264	<i>NA</i>
chr13	28395271	28396059	*	7	0.008847177	-0.023428513	-0.008384611	<i>NA</i>
chr14	23478970	23479801	*	7	0.008869115	0.011828577	0.007228543	<i>C14orf93</i>
chr4	109540778	109542037	*	15	0.008871277	-0.019131957	-0.003598489	<i>RPL34;RPL34-DT</i>
chr2	102802929	102804405	*	11	0.008871277	0.028726114	0.003064161	<i>IL1RL2</i>
chr7	99005923	99006858	*	14	0.008878417	0.018076153	0.000550514	<i>BUD31;PDAP1</i>
chr12	6809127	6810055	*	15	0.008880929	-0.030683899	-0.00721823	<i>PIANP</i>
chr10	14995476	14996626	*	16	0.00888543	0.010176576	0.000634299	<i>DCLRE1C;MEIG1</i>
chr20	1471884	1472712	*	7	0.008887447	0.013181446	-0.006013614	<i>SIRPB2</i>
chr17	15848828	15849556	*	3	0.008898288	0.037508922	0.004473505	<i>ADORA2B</i>
chr6	31869518	31870840	*	27	0.008915258	-0.01500263	-0.002270733	<i>C2;EHMT2;ZBTB12</i>
chr12	3393711	3393872	*	3	0.008918111	0.02881371	0.009158709	<i>TSPAN9</i>
chr12	49688844	49689212	*	4	0.00893019	0.034369769	0.019944102	<i>PRPH</i>
chr21	42538388	42539633	*	7	0.008938139	0.031988645	0.005565033	<i>BACE2;MIR3197</i>
chr2	149859590	149856468	*	3	0.008944509	-0.021975456	-0.018493581	<i>KIF5C</i>
chr14	97091902	97092205	*	3	0.008944509	0.023144163	0.013664536	<i>NA</i>
chr14	73704007	73704343	*	5	0.008949549	0.025864181	0.008757616	<i>PAPLN</i>
chr11	2440032	2440386	*	3	0.008951296	0.018654606	0.014716597	<i>TRPM5</i>
chr16	73419299	73420528	*	5	0.008957003	0.030173729	0.014107052	<i>LINC01568</i>
chr6	31093846	31094557	*	5	0.008990778	0.017119784	0.008445181	<i>PSORS1C1</i>
chr12	125549535	125550542	*	14	0.008994711	-0.018411132	-0.004586151	<i>AACS</i>
chr14	36989588	36990534	*	9	0.008994711	0.012103167	-0.001439443	<i>NKX2-1;SFTA3</i>
chr11	101743355	101744168	*	5	0.008997833	0.032297488	0.004373047	<i>NA</i>
chr1	22140769	22141400	*	6	0.009005107	0.027273902	0.011017246	<i>LDLRAD2</i>
chr5	113697330	113698664	*	14	0.009007072	-0.014867941	-0.005956093	<i>KCNK2</i>
chr1	151319512	151320381	*	10	0.009012305	0.008169028	-0.000957884	<i>RFX5</i>
chr7	92861286	92861825	*	12	0.009046362	-0.023470488	-0.004554464	<i>VPSS0</i>
chr8	61496287	61497168	*	4	0.009046649	-0.019958651	-0.00926934	<i>RAB2A</i>
chr15	41575421	41576837	*	14	0.009048268	0.017991371	0.00169477	<i>OIPS-AS1</i>
chr6	30644235	30644478	*	3	0.00906232	0.021785909	0.005900766	<i>DHX16;PPP1R18</i>
chr10	94831650	94834219	*	19	0.009076291	0.014885282	-0.000525959	<i>CYP26A1</i>
chr16	87090731	87091652	*	7	0.009076291	0.0231966	0.011991173	<i>NA</i>
chr8	41523177	41523968	*	4	0.009076291	-0.015325774	-0.006686825	<i>ANK1;NKX6-3</i>
chr15	102189106	102189763	*	3	0.009078263	-0.028613334	-0.010003173	<i>TM2D3</i>
chr15	99936927	99937249	*	3	0.009091231	-0.026290957	-0.012677651	<i>NA</i>
chr6	27776350	27776566	*	4	0.009097006	0.033502446	0.013443941	<i>H2BC13;H3C10</i>
chr8	9762716	9763159	*	4	0.009105386	-0.008352475	-0.003078797	<i>MIR124-1;MIR124-1HG</i>
chr16	57843964	57844572	*	8	0.009107613	-0.015563923	-0.005779005	<i>KIFC3;LOC388282</i>
chr22	31217230	31217665	*	3	0.009115649	0.016846275	0.013234803	<i>OSBP2</i>
chr4	13545639	13546673	*	12	0.00912193	-0.02356533	-0.007811775	<i>NKX3-2</i>
chr2	102927397	102927898	*	4	0.009138687	-0.021049967	-0.009271587	<i>IL1SR1;IL1RL1</i>
chr3	14345227	14346268	*	6	0.009140907	0.033396617	0.014418948	<i>NA</i>
chr4	187064964	187066505	*	16	0.009152231	-0.030381157	-0.00578427	<i>FAM149A</i>
chr3	45076240	45077254	*	5	0.009160197	0.028987262	0.002779363	<i>CLEC3B</i>
chr16	1071049	1072056	*	4	0.009168299	0.027678981	0.018142234	<i>NA</i>
chr1	86047239	86048585	*	8	0.009170864	0.02792169	0.005762302	<i>CCN1;DDAH1</i>
chr9	93563033	93564033	*	12	0.009185936	-0.022900051	-0.004973692	<i>SYK</i>
chr10	3507462	3508379	*	3	0.009210031	-0.017265204	-0.004129602	<i>NA</i>
chr1	207818003	207819196	*	9	0.009219402	0.039244582	-0.000920038	<i>CRIL</i>
chr5	1886956	1888218	*	18	0.009231889	-0.048625753	-0.009320779	<i>IRX4</i>
chr2	196520930	196522377	*	18	0.009231889	0.026264173	0.00220968	<i>SLC39A10</i>
chr12	50355995	50357142	*	7	0.009231889	0.026873752	0.012513418	<i>AQP5;AQP6</i>
chr1	156675322	156675879	*	13	0.009234317	0.006729952	0.001102695	<i>CRABP2</i>
chr14	74100086	74100788	*	6	0.009236479	-0.027808154	-0.008951063	<i>NA</i>
chr3	195477854	195478715	*	5	0.009240171	0.020200592	0.013901563	<i>MUCA</i>
chr7	99691385	99691942	*	13	0.00924487	0.022059572	0.003082489	<i>MCM7;MIR106B;MIR25;MIR93</i>
chr16	85207569	85208316	*	3	0.009246786	0.012361076	0.010369206	<i>NA</i>
chr6	29910101	29911095	*	9	0.009252406	-0.023940895	0.005558357	<i>HLA-A;HLA-G;HLA-H;HLA-J</i>
chr12	56211383	56212269	*	17	0.009257843	0.017997136	-0.001264997	<i>DNAJC14;ORMDL2;SARNP</i>

chr16	85783863	85785218	*	7	0.009272857	0.027431389	0.005561107	<i>C16orf74</i>
chr19	54693755	54694791	*	16	0.009275111	-0.024875829	-0.004882145	<i>MBOAT7;TSEN34</i>
chr8	1897020	1897487	*	4	0.009277949	-0.030697303	-0.015985906	<i>ARHGEF10</i>
chr16	75894736	75895031	*	5	0.009288021	-0.041396733	-0.02771533	<i>NA</i>
chr12	111618925	111619455	*	8	0.009304416	-0.038788319	-0.012905898	<i>CUX2</i>
chr22	38507451	38508132	*	3	0.009304416	-0.018601838	0.000797524	<i>BAIAP2L2;PLA2G6</i>
chr3	138763424	138764372	*	12	0.009317037	0.048911677	0.012927687	<i>PRR23C</i>
chr2	220282914	220284395	*	9	0.009317037	0.038994379	0.011637096	<i>DES</i>
chr2	108994116	108994528	*	7	0.009317037	-0.016686238	-0.010305073	<i>SULT1C4</i>
chr3	38691243	38691506	*	6	0.009320811	0.022270775	-0.001038256	<i>SCN5A</i>
chr19	37997105	37997867	*	14	0.009342713	-0.013018764	-0.004325528	<i>ZNF793</i>
chr13	79980322	79980793	*	9	0.009366289	-0.007414514	-0.001812243	<i>RBM26;RBM26-AS1</i>
chr6	13964265	139649674	*	4	0.009370039	-0.008159412	-0.002622424	<i>CITED2</i>
chr15	89973756	89974397	*	6	0.009377354	-0.025365251	-0.008011849	<i>NA</i>
chr3	50649994	50650410	*	3	0.009380589	0.040505962	0.020887155	<i>CISH;MAPKAPK3</i>
chr14	77964712	77965757	*	8	0.009396011	-0.017102581	-0.005212562	<i>ISM2</i>
chr16	21170107	21170814	*	5	0.009396011	0.011601088	-0.001258483	<i>DNAH3;TMEM159</i>
chr1	45138784	45140266	*	10	0.009405985	0.021006833	0.004302785	<i>ARMH1;TMEM53</i>
chr15	67546975	67548075	*	15	0.009407815	-0.010939514	-0.001061121	<i>AAGAB;IQCH</i>
chr11	17297732	17298537	*	10	0.009419193	-0.018839149	-0.005640405	<i>NUCB2</i>
chr14	58618986	58619480	*	11	0.009438936	0.012013575	0.000645461	<i>ARMH4</i>
chr3	49130732	49131405	*	7	0.009438936	-0.032483137	-0.006111613	<i>QRICH1</i>
chr3	49315355	49316322	*	4	0.009452414	0.013516469	0.006885686	<i>C3orf62;USP4</i>
chr16	79804561	79805381	*	6	0.009459588	0.011521049	0.000878614	<i>NA</i>
chr21	34755681	34756016	*	4	0.009459588	-0.006264878	-0.00441657	<i>NA</i>
chr18	77960683	77960807	*	4	0.009459588	0.030906473	0.017004222	<i>PARD6G</i>
chr7	8481994	8483374	*	9	0.009461984	-0.022151444	-0.004216268	<i>NXPH1</i>
chr1	45476456	45477041	*	7	0.00946718	0.010786987	0.000761986	<i>HECTD3;UROD</i>
chr16	69166316	69168101	*	15	0.009471688	-0.024108017	-0.003003126	<i>CHTF8;UTP4</i>
chr6	31670195	31671391	*	36	0.009477675	0.025210936	-0.000194526	<i>ABHD16A;LY6G6F;MIR4646</i>
chr1	111748053	111748268	*	3	0.009482229	-0.021912874	-0.011949566	<i>DENN2D2</i>
chr17	40260053	40260548	*	5	0.009510099	0.017926822	0.002708865	<i>DHX58</i>
chr17	72897623	72898015	*	4	0.009522119	-0.018578003	-0.014224271	<i>NA</i>
chr17	80372912	80373608	*	7	0.009525635	0.026382764	0.00799865	<i>HEXD;OGFOD3</i>
chr1	206729034	206729685	*	7	0.009542417	0.023378109	0.006404335	<i>RASSF5</i>
chr20	4666423	4666916	*	9	0.009552185	0.016852619	0.001647684	<i>PRNP</i>
chr8	110693195	110693461	*	4	0.009564908	-0.038623213	-0.007747142	<i>SYBU</i>
chr17	29151515	29152249	*	7	0.009569072	0.017316281	-0.002475058	<i>CRLF3</i>
chr2	136577303	136577747	*	5	0.009571749	-0.015148764	-0.005159125	<i>LCT;LCT-AS1</i>
chr8	12990213	12991259	*	12	0.009576175	-0.023549485	-0.007826822	<i>DLC1</i>
chr12	10324843	10325287	*	5	0.009582659	0.03465219	-0.002050179	<i>OLR1</i>
chr19	6425207	6425737	*	4	0.00960154	0.016853504	0.00333132	<i>KHSRP</i>
chr19	44711560	44711915	*	4	0.009602855	-0.007403618	-0.006231823	<i>ZNF227</i>
chr3	126750108	126751404	*	4	0.009616411	0.021715203	0.003532147	<i>PLXNA1</i>
chr13	77900505	77901478	*	12	0.009632255	-0.017812587	-0.004728204	<i>MYCBP2</i>
chr5	92909429	92910052	*	4	0.009636473	-0.014361744	-0.010855904	<i>NR2F1-AS1</i>
chr15	28341068	28342183	*	9	0.009642893	0.018762546	0.001451889	<i>OCA2</i>
chr19	38713050	38713373	*	4	0.009654411	-0.03159306	-0.018232213	<i>DPF1</i>
chr17	4853232	4853717	*	5	0.009657025	-0.01726607	-0.002811184	<i>ENO3;PFN1</i>
chr17	73641675	73642080	*	3	0.009657025	0.026823088	0.014682792	<i>RECQL5;SMIM6</i>
chr7	1990554	1992159	*	10	0.00966625	0.020408334	0.009821288	<i>MAD1L1</i>
chr6	35181888	35182910	*	5	0.009677302	0.015947116	0.005820406	<i>SCUBE3</i>
chr18	30051012	30051803	*	19	0.009691996	-0.017606414	-0.002816583	<i>GAREM1</i>
chr1	193090350	193091399	*	11	0.009702055	-0.017005023	-0.000557233	<i>CDC73</i>
chr9	124009589	124009784	*	3	0.009717649	-0.019840918	-0.012546498	<i>GSN</i>
chr16	3311857	3313282	*	4	0.009738115	0.032899203	0.016205806	<i>LINC00921;ZNF263</i>
chr9	80850389	80850856	*	3	0.009767246	-0.020282688	-0.008037109	<i>CEP78</i>
chr3	154796701	154798079	*	18	0.00977705	-0.019985215	-0.006453693	<i>MME</i>
chr16	55866757	55867072	*	4	0.009779257	-0.084082934	-0.050156174	<i>CES1</i>
chr11	32355324	32355899	*	4	0.009787958	0.025482871	0.017415288	<i>NA</i>
chr2	97533635	97534450	*	4	0.009793644	-0.021770389	0.000734114	<i>SEMA4C</i>
chr12	110687347	110687977	*	3	0.009798341	0.027426584	0.007619899	<i>NA</i>
chr12	49373240	49374710	*	7	0.009799942	-0.00885292	-0.001245087	<i>WNT1</i>
chr3	194905391	194906452	*	5	0.009800996	0.01470255	-0.002956495	<i>XXYLT1</i>
chr11	71752705	71753240	*	4	0.009811507	-0.026849899	-0.012069453	<i>NUMA1</i>
chr13	111805314	111805930	*	7	0.009838622	0.024259028	0.006373182	<i>ARHGEF7</i>

chr1	210501532	210502792	*	13	0.009839793	0.020723879	-0.003070556	HHAT
chr10	102469807	102470340	*	4	0.009842118	-0.011053485	-0.005413929	NA
chr6	169422647	169423797	*	5	0.009842513	0.025349558	0.016286033	NA
chr6	71123675	71124075	*	6	0.009842673	-0.024705514	-0.011999235	FAM135A
chr17	79010968	79012396	*	5	0.009848992	0.047083443	0.006413171	BAIAP2;BAIAP2-DT
chr4	108745001	108745771	*	10	0.009865197	0.017454113	0.005149391	SGMS2
chr6	32115979	32116317	*	9	0.009880484	-0.02247884	-0.006656741	PPT2;PRRT1
chr8	135725874	135726595	*	4	0.00988931	0.025503128	0.010609275	ZFAT
chr16	88716846	88717989	*	16	0.009890407	-0.025711154	-0.004953177	CYBA
chr22	35795274	35795394	*	5	0.009890407	0.020568046	0.013101943	MCM5
chr11	33758121	33759043	*	8	0.009899078	-0.019104865	-0.006745771	CD59
chr15	80215376	80216491	*	15	0.009905544	-0.017779195	-0.003192833	ST20;ST20-AS1;ST20-MTHFS
chr17	53341098	53343075	*	12	0.009905544	-0.02657738	-0.005600106	HLF
chr17	1421079	1421517	*	3	0.009905544	0.023924298	0.009054789	INPP5K;PITPNA;PITPNA-AS1
chr11	1967857	1968643	*	9	0.009932584	-0.041889197	-0.004562304	MRPL23
chr11	122525644	122526355	*	7	0.00995537	-0.044359081	-0.003935058	UBASH3B
chr1	112259992	112260326	*	3	0.009957212	0.025159446	0.008430497	NA
chr16	71929343	71930048	*	8	0.009962353	-0.017156925	-0.001615384	ISTI
chr7	87257356	87258443	*	11	0.009972563	0.028861141	0.001954974	ABCB1;RUND3B
chr12	46386648	46387141	*	3	0.009973023	0.04554405	0.020697784	SCAF11
chr2	228497892	228498185	*	3	0.009977966	0.038567607	0.008373383	C2orf83
chr20	46286436	46286980	*	3	0.009978341	0.016992349	0.003197604	SULF2
chr19	3942158	3942969	*	5	0.010000373	0.021233898	0.008590878	NMRK2
chr16	27761089	27761488	*	3	0.010000373	0.014913666	-0.000805409	KATNIP
chr16	89022688	89023633	*	5	0.010015015	-0.027084973	-0.014455237	CBFA2T3
chr7	128488744	128488920	*	3	0.010015015	0.023402773	0.015900822	FLNC
chr22	20863268	20864312	*	3	0.010016584	0.019692031	0.013214421	MED15
chr6	109761938	109762635	*	8	0.01002103	0.005482639	-0.001008559	PP1L6;SMPD2
chr16	1754752	1755402	*	3	0.010027961	-0.023615904	0.001340014	MAPKSIP3
chr7	1552941	1553444	*	4	0.010033513	-0.012292919	-0.007938035	NA
chr6	7468364	7469052	*	6	0.010040698	-0.032701574	-0.02400501	NA
chr1	24126017	24126641	*	6	0.010047109	0.016542909	0.006291743	GALE
chr15	96884100	96884532	*	4	0.010047109	-0.023471275	-0.005663297	NA
chr8	10382921	10383763	*	6	0.010092163	-0.02258179	-0.00385072	PRSS55
chr1	113525753	113526539	*	3	0.010110846	-0.023940112	-0.009554291	NA
chr9	125109046	125110034	*	4	0.010113454	0.024055836	0.011108967	NA
chr17	5095165	5095970	*	10	0.010127515	-0.016870508	-0.005256927	LOC100130950;ZNF594
chr1	154155675	154156895	*	9	0.010144793	-0.014599172	-0.000922639	TPM3
chr7	116502333	116503366	*	12	0.010163726	-0.01973141	-0.004491201	CAPZA2
chr10	118924342	118924759	*	3	0.010172923	-0.018317948	-0.005796211	NA
chr16	2836681	2836845	*	4	0.010174824	0.028373638	0.016592357	PRSS33
chr1	38100732	38101266	*	7	0.010242123	0.034168511	0.007650643	RSP01
chr3	4863817	4864036	*	3	0.010243256	-0.024810387	-0.014090694	ITPR1
chr17	46233714	46234525	*	6	0.010243282	0.021630013	-0.006179598	MIR1203;SKAP1
chr21	40140783	40141756	*	4	0.010248488	0.026799248	0.007429052	LINC00114
chr14	100631741	100631897	*	3	0.010250485	0.049129421	0.029166432	NA
chr17	11143830	11144509	*	4	0.010254684	-0.036437526	-0.012628314	SHISA6
chr17	45726416	45727226	*	12	0.010256854	0.022532107	0.001750099	KPNB1
chr9	80647290	80647629	*	4	0.01025715	-0.00644998	-0.002583641	GNAQ
chr14	89506875	89507624	*	4	0.010264588	-0.030745772	-0.013919182	NA
chr1	40781617	40782458	*	5	0.010270083	0.036146155	0.004368502	COL9A2
chr13	20531619	20532174	*	4	0.01027444	-0.012672491	-0.000155063	ZMYM2
chr16	66994879	66995461	*	7	0.010275479	0.023200419	0.011773361	CES3
chr22	19512712	19513176	*	9	0.010288533	0.032935954	0.017097268	CLDN5
chr17	79495006	79495953	*	9	0.010296635	-0.030710926	-0.011635304	FSCN2
chr6	43736827	43737749	*	5	0.010300188	0.015222496	0.004749667	VEGFA
chr2	227660067	227660451	*	3	0.01030881	0.013934681	0.010123743	IRS1
chr2	32502226	32503219	*	14	0.010313859	-0.020655228	-0.001871903	YIPF4
chr14	104639580	104640667	*	6	0.010315158	0.015883666	0.007061933	KIF26A
chr14	57278084	57278729	*	4	0.010324782	0.040906752	0.008641182	OTX2;OTX2-AS1
chr9	34956991	34958141	*	9	0.010328125	-0.022185314	0.002508205	PHF24
chr8	27449470	27449755	*	4	0.010328273	0.020703084	0.005402461	NA
chr7	73256360	73256761	*	4	0.010328273	0.02432307	0.010644545	METTL27
chr22	24950917	24951987	*	20	0.010351434	0.012108621	0.000315326	GUCD1;SNRPD3
chr8	26240309	26241120	*	12	0.010359802	0.016557475	0.00062874	BNIP3L
chr15	27111993	27112902	*	9	0.010368879	-0.050157207	-0.011767097	GABRA5;GABRB3

chr20	30073209	30073576	*	6	0.010368879	0.038780449	0.023529187	LINC00028
chr20	50179398	50180224	*	6	0.010375543	-0.012301201	0.000651203	NFATC2
chr11	64727184	64728252	*	4	0.010380376	-0.027062389	-0.010740748	MAJIN
chr7	2151462	2152625	*	5	0.010384715	-0.025359876	-0.00969318	MADLL1
chr8	144610080	144611701	*	6	0.010388595	0.020847972	0.00322599	ZC3H3
chr15	90030316	90030679	*	3	0.010389689	-0.022914394	-0.02005859	RHCG
chr6	30688035	30689568	*	27	0.010395737	0.028024475	0.001632176	MDC1:TUBB
chr17	3499165	3499671	*	3	0.01039957	0.017543647	0.015175446	TRPV1
chr1	156130293	156131379	*	4	0.010406944	-0.01726433	-0.00803745	SEMA4A
chr16	10133433	10133501	*	3	0.010408789	-0.030818142	-0.019122228	GRIN2A
chr5	59559062	59559236	*	4	0.010413631	-0.016226405	-0.010122121	PDE4D
chr14	78869751	78870232	*	6	0.010419315	-0.042523426	-0.020940675	NRXN3
chr3	31750433	31751191	*	5	0.010419315	-0.022371239	-0.008477215	OSBP10;OSBP10-AS1
chr7	127807832	127808848	*	5	0.01044386	-0.026243569	-0.001739446	NA
chr11	13983273	13984596	*	15	0.010451114	0.042452684	0.014452902	SPON1
chr8	141108607	141109731	*	5	0.010453781	-0.030803453	0.002453918	TRAPPC9
chr12	119616880	119617656	*	4	0.010460594	-0.031397479	-0.007719997	HSPB8
chr20	30071726	30072118	*	3	0.010473707	0.020439253	0.01894986	LINC00028;REM1
chr12	81471194	81472177	*	14	0.010481587	-0.012566137	-0.005994877	ACSS3
chr6	96025679	96026116	*	4	0.010481587	0.01741902	0.00649177	MANEA
chr16	1507634	1509206	*	7	0.010492065	-0.05270492	-0.019635673	CLCN7
chr8	37962497	37963526	*	19	0.010506365	-0.035344492	-0.00278734	ASH2L
chr3	138433416	138434145	*	4	0.010517005	0.020508311	0.00498848	PIK3CB
chr9	116356058	116356457	*	3	0.01052186	-0.018398861	-0.004045748	RGS3
chr17	4842919	4844613	*	17	0.010522114	-0.01899848	-0.000924484	RNF167;SLC25A11
chr17	77019777	77020549	*	12	0.010542759	0.009069816	0.001078275	CIQTNF1;CIQTNF1-AS1
chr2	25920087	25920923	*	4	0.010545374	0.050117592	0.024386477	NA
chr3	45984585	45985168	*	7	0.010555495	-0.021372242	-0.008767914	CXCR6;FYCO1
chr8	134114834	134115661	*	9	0.01058962	0.018844352	0.000396873	SLA7G
chr17	19355650	19355814	*	4	0.010598661	0.027477127	0.013206946	NA
chr17	73285181	73285885	*	11	0.010599062	0.005156628	-0.000465742	SLC25A19
chr2	67623673	67624930	*	11	0.010605644	0.018940872	-0.001545831	ETAA1
chr7	27190235	27190849	*	8	0.01060902	-0.016838812	-0.004184225	HOXA-AS3;HOXA6
chr12	96883202	96883863	*	8	0.010609052	0.01325075	0.002732424	NERE
chr1	8483475	8485666	*	16	0.010611075	0.032537856	0.006246492	RERE
chr19	38876250	38877739	*	6	0.010611949	0.031170451	0.018886389	GGN;SPRED3
chr10	103910870	103911881	*	7	0.010612159	0.0212165	0.008664071	NOLCI
chr13	77601257	77601924	*	9	0.010629576	0.00825837	0.001936225	FBXL3
chr10	134549665	134550058	*	5	0.010666201	0.018981635	0.010762297	INPP5A
chr1	41487940	41488323	*	4	0.010690496	0.022364383	0.014170307	SLFN1;SLFN1-AS1
chr4	141419169	141419915	*	10	0.010727584	-0.015676996	-0.002938713	MGAT4D
chr6	28911464	28912166	*	10	0.010731326	0.030160814	0.007992293	NA
chr5	56205718	56206494	*	7	0.010735604	0.014602362	0.000110382	SETD9
chr9	136819239	136819694	*	3	0.010735977	0.023074864	0.014324301	VAV2
chr17	79425877	79426432	*	5	0.010739442	-0.023650687	-0.008286704	BAHCC1
chr3	138654924	138655775	*	5	0.010752119	0.022957493	0.000813906	NA
chr3	194030520	194030977	*	6	0.010757647	-0.014788783	-0.005563056	LINC00887
chr17	79792334	79793439	*	12	0.010761187	-0.022087671	-0.006119198	MCRIP1;PPP1R27
chr7	117067416	117068162	*	10	0.010771558	0.029587975	0.012912119	ASZ1
chr14	79745154	79746056	*	11	0.010774044	-0.014012424	-0.005685087	NRXN3
chr7	150674012	150675308	*	6	0.010774044	-0.04152913	-0.01528923	KCNH2
chr7	99716514	99717359	*	14	0.01080467	-0.017692407	-0.005359481	CNPY4;TAF6
chr6	78359965	78360731	*	4	0.01080467	0.020668819	0.004353735	NA
chr12	71314144	71314315	*	3	0.010811388	-0.022477586	-0.01317684	PTPRR
chr11	27721222	27722889	*	21	0.010832504	-0.021354574	-0.002900767	BDNF
chr4	111558988	111559355	*	5	0.01085413	0.021451686	-0.001293049	PITX2
chr15	93614970	93616424	*	9	0.010857218	0.042611699	0.009119029	RGMA
chr7	150689873	150689889	*	3	0.010857218	-0.032563257	-0.012183816	NOS3
chr9	112887376	112889386	*	10	0.010869044	-0.026583753	-0.008048248	PALM2AKAP2
chr16	23480974	23481476	*	3	0.010880636	0.015340479	0.002182176	GGA2
chr13	24144257	24144985	*	7	0.010892622	-0.031423521	-0.01399479	TNFRSF19
chr8	56851846	56852290	*	5	0.010898579	-0.009471273	-0.004192588	LYN
chr17	70981390	70982380	*	3	0.010904203	0.017863122	-0.001241598	SLC39A11
chr17	6899085	6899888	*	14	0.010905646	0.047519809	0.018834252	ALOX12;ALOX12-AS1
chr14	95026888	95028105	*	9	0.010923341	0.022265982	0.012029263	SERPINA4
chr21	26980353	26980614	*	3	0.010932186	-0.007127004	-0.001358026	MRLP39

chr3	194826197	194826983	*	6	0.010936125	-0.02238672	-0.016048537	XXYL1
chr15	89764836	89765425	*	7	0.010938842	0.021050848	0.012322577	RLBP1
chr20	50807767	50808668	*	9	0.010947912	0.00704211	-9.01E-05	ZFP64
chr13	103514655	103515035	*	5	0.010954864	0.013589035	0.004847795	BIVM-ERCC5:ERCC5
chr6	125420338	125421084	*	5	0.01097881	0.013949822	-0.001181572	NA
chr20	17595355	17595472	*	3	0.010978827	0.058269466	0.037403949	RRBP1
chr7	120628572	120629404	*	9	0.010992957	-0.010475535	-0.005086442	CPED1
chr4	3043199	3043752	*	3	0.010998066	-0.033366633	-0.032402212	NA
chr15	83349171	83349864	*	5	0.011006903	-0.008438343	-0.004824157	AP3B2:CPEB1-AS1
chr15	23893742	23894273	*	5	0.011058029	-0.033089589	-0.009680256	MAGEL2
chr17	66031448	66032328	*	12	0.011062149	0.017899723	0.000289741	KPNA2
chr20	34242979	34243249	*	3	0.01106516	-0.022257561	-0.014296174	CPNE1:RBM12
chr14	24024869	24025797	*	15	0.011075892	0.019369434	0.00171861	THTPA:ZFH2
chr11	104839074	104839858	*	4	0.011094196	0.024111392	0.000496632	CASP4
chr8	38323742	38324522	*	6	0.011100714	0.012209575	0.00302919	FGFR1
chr2	133426129	133426653	*	4	0.011100714	-0.010801614	-0.00618969	LYPD1
chr3	196730265	196731150	*	8	0.011107667	0.016373988	-0.001777254	MELTF:MELTF-AS1
chr11	67895682	67896186	*	4	0.011107772	-0.011389404	-0.001520038	NA
chr2	240876536	240876920	*	3	0.011112837	-0.030065987	-0.015410511	NA
chr7	872480	872797	*	4	0.011141131	-0.024666082	-0.007870039	SUN1
chr16	87755225	87755754	*	4	0.011141131	0.022367962	0.008952623	KLHDC4
chr4	95372810	95373403	*	8	0.011143987	-0.026727062	-0.001424606	PDLIM5
chr11	63606263	63607025	*	11	0.011152944	-0.018761619	-0.00546825	MARK2
chr13	99194582	99195339	*	3	0.011162585	-0.020179146	-0.006487859	STK24
chr1	231114438	231115458	*	14	0.01116506	0.013903389	0.000479013	ARV1:TTC13
chr2	238535538	238536315	*	10	0.011177723	0.032848864	-0.001266456	LRRFP1
chr4	675137	675936	*	4	0.011179706	-0.051385788	-0.032192005	MYL5:SLC49A3
chr2	177133722	177134737	*	10	0.011180103	0.013376411	0.000998549	MTX2
chr11	31821064	31821764	*	7	0.01118123	0.023113956	0.002887248	PAX6
chr5	43313384	43313815	*	8	0.011187139	-0.013050687	-0.001235462	HMGCS1
chr12	65515350	65516002	*	6	0.011187139	0.037463427	0.014134308	WIF1
chr2	228160709	228160922	*	3	0.011216956	-0.019133187	-0.006379696	COL4A3:MFF-DT
chr18	12377893	12378044	*	4	0.011219323	-0.01401716	-0.006214084	AFG3L2
chr15	25068564	25069376	*	8	0.011227869	-0.028729723	-0.010361519	SNRPN
chr7	157129064	157130065	*	12	0.011238515	-0.008256637	-0.002641732	DNAJB6
chr4	1318845	1319171	*	5	0.011240869	0.013604577	0.000401271	MAEA
chr3	160117013	160117717	*	9	0.011254141	-0.018828729	-0.001080326	IFT80:MIR15B:MIR16-2:SMC4
chr6	33176234	33176673	*	18	0.011256884	-0.021466411	-0.005426797	RING1
chr19	34263644	34264111	*	5	0.011295415	0.027647311	0.017939695	CHST8
chr8	142517494	142518155	*	4	0.011295497	-0.03012326	-0.007009289	MROH5
chr16	31438767	31439681	*	6	0.011297946	0.034239007	0.027462185	COX6A2
chr1	19407878	19408371	*	3	0.011302787	-0.017580044	-0.012791442	UBR4
chr18	40857256	40857693	*	5	0.011308481	-0.016864312	-0.00285683	SYT4
chr14	99786193	99786226	*	3	0.011313368	0.027314465	0.013971074	NA
chr3	27765484	27766382	*	8	0.011316162	-0.026974307	-0.003484203	EOMES
chr6	291687	292823	*	9	0.011323863	0.053011157	0.042649384	DUSP22
chr16	67038709	67039332	*	5	0.011323863	0.016241803	0.006352084	CES4A
chr19	44405433	44406241	*	5	0.011330926	0.031695904	0.008323755	LOC100505715
chr14	51410260	51410689	*	3	0.01134423	-0.015617239	-0.008496137	PYGL
chr1	214557246	214558155	*	9	0.01135319	0.02643835	0.005343294	PTPN14
chr9	100459097	100460584	*	9	0.011358764	0.024648288	0.001720554	XPA
chr19	18717641	18718202	*	7	0.01137948	-0.019888128	-0.003702794	CRLF1
chr1	214160412	214161251	*	4	0.011382635	-0.024328845	-0.00904329	PROX1
chr22	29137385	29138453	*	15	0.01139426	-0.013012115	-0.001047466	CHEK2:HSCB
chr4	8159729	8161093	*	13	0.011395585	0.016749397	-0.001182964	ABLIM2
chr7	4901337	4901798	*	8	0.011400234	-0.038990943	-0.026568381	PAPOLB:RADIL
chr1	229478916	229479495	*	7	0.011401209	-0.042285229	-0.009304149	CCSAP
chr7	128046088	128046797	*	3	0.011405966	0.012081629	0.004454049	IMPDH1
chr18	29170465	29170604	*	3	0.011407163	-0.018191918	-0.001299699	TTR
chr4	174429263	174430141	*	9	0.011418548	-0.014153871	-0.004991531	NA
chr17	26554221	26554610	*	3	0.011418548	0.024029434	0.015052986	PYY2
chr16	53536813	53537952	*	12	0.011419333	0.014660305	0.001026961	AKTIP
chr12	52344971	52345646	*	6	0.011426355	-0.050957234	-0.008584288	ACVR1B
chr15	50646438	50647583	*	16	0.011427412	-0.015602141	-0.001099706	GABPB1:GABPB1-AS1:GABPB1-IT1:MIR4712
chr8	49647884	49648519	*	8	0.011439509	-0.012510554	-0.004307976	EFCA1
chr14	72925867	72926359	*	4	0.011440346	-0.014463479	0.001808033	RGS6

chr16	23724428	23724901	*	8	0.011446914	-0.026663515	0.00045018	ERN2
chr6	100056686	100057160	*	5	0.011450844	-0.037817921	-0.012177744	PRDM13
chr21	47421947	47422256	*	3	0.011450844	0.019510679	0.015913495	COL6A1
chr15	70766226	70767649	*	6	0.011457512	-0.022436751	-0.011958174	NA
chr11	64814948	64816327	*	10	0.011464485	0.017676751	0.002613459	NAALADL1
chr14	21994785	21995727	*	5	0.011467908	-0.015005412	-0.005889186	SALL2
chr17	81018426	81018559	*	3	0.011467908	-0.022951972	-0.006959761	NA
chr16	15766245	15767006	*	5	0.011470253	-0.014956573	-0.010031779	NDE1
chr6	163834452	163835582	*	7	0.011473098	-0.026194887	-0.009291725	CAHM:QKI
chr5	178204356	178204766	*	3	0.01147408	-0.017904456	-0.013912886	AACSP1
chr12	107077503	107078653	*	7	0.011489294	-0.013303334	-0.00232621	LOC100287944:LOC100505978:RFX4
chr15	94406157	94406247	*	3	0.011491653	-0.011163471	-0.009174716	NA
chr16	25702150	25702614	*	3	0.011500083	-0.019499001	-0.008537532	HS3ST4
chr3	123519116	123520027	*	4	0.011500779	0.02336721	0.018532657	MYLK
chr15	85143675	85144807	*	14	0.01151254	0.013506346	-0.001557501	ZSCAN2
chr17	6734940	6735539	*	8	0.011515877	-0.012658181	-0.006020896	TEKT1
chr17	62492736	62493599	*	6	0.011520181	-0.005437553	-0.001680664	POLG2
chr6	28828946	28830041	*	22	0.011520479	0.019908018	0.008289532	LINC01623
chr17	38821155	38821487	*	8	0.011529114	-0.022033835	-0.014357277	KRT22
chr16	18994601	18995637	*	13	0.011554716	0.018511741	0.00066586	TMC7
chr17	3289363	3290164	*	8	0.011572204	-0.049048685	-0.004363973	NA
chr7	23529999	23530810	*	4	0.011635824	-0.027699561	-0.02134813	RPS2P32
chr2	44588702	44589694	*	17	0.011656216	0.011602691	-0.000852543	CAMKMT:PREPL
chr16	29973734	29974702	*	8	0.011656216	0.030631921	0.008256386	BOLA2:TMEM219
chr20	45169840	45170494	*	4	0.011660164	-0.027714503	-0.012829363	OCTAMP
chr1	24525983	24526095	*	3	0.011666512	-0.027223496	-0.020268492	LINC02800
chr17	38375119	38375600	*	10	0.011684849	0.011651829	-0.001895748	WIPF2
chr3	134031551	134031948	*	4	0.011701653	0.035569652	0.022182878	NA
chr8	93107298	93108262	*	10	0.011720345	-0.030945832	-0.005172472	RUNXIT1
chr6	31105337	31105744	*	6	0.011722911	-0.022618888	-0.008881332	PSORS1C1:PSORS1C2
chr20	2635105	2635586	*	4	0.011725669	0.026391434	0.013699231	NOP56:SNORAS1
chr22	27695418	27696203	*	3	0.011725669	-0.016026949	-0.006793518	NA
chr13	111290667	111291316	*	6	0.011746011	0.025417657	0.010086047	NAXD
chr2	10442817	10443758	*	13	0.011762128	-0.030251085	0.00040992	HPCAL1
chr1	89664260	89664619	*	7	0.011763952	-0.052592227	-0.01084292	GBP4
chr20	42193485	42194053	*	8	0.011767936	0.019988641	0.005167279	SGK2
chr15	91475537	91475925	*	10	0.011768687	0.013808111	4.75E-05	HDDC3:UNC45A
chr16	66585210	66585924	*	8	0.011769347	-0.021353399	-0.00233379	CKLF:CKLF-CMTM1:TK2
chr13	78492568	78493365	*	20	0.011780871	0.019698081	-7.07E-06	EDNRB:OB11-AS1
chr5	79287118	79288180	*	8	0.01178255	0.033354315	0.007014129	MTX3
chr2	126155953	126156962	*	3	0.01178442	0.032417615	0.007151066	NA
chr2	242665153	242666066	*	8	0.011787751	0.014240096	0.000576664	ING5
chr15	85201039	85202042	*	10	0.011793225	0.041251742	0.003693989	NMB:WDR73
chr9	136506306	136506883	*	3	0.011799156	0.019937347	0.01491606	DBH
chr17	79077169	79077745	*	5	0.011809962	0.015145647	0.00681111	BAIAP2
chr1	151966448	151967023	*	10	0.011812314	-0.039325626	-0.001980489	S100A10
chr6	134373485	134374706	*	7	0.011814847	-0.015908305	-0.006577453	SLC2A12
chr7	4210949	4211395	*	5	0.011816628	0.021016212	0.004878618	SDK1
chr1	66999304	66999933	*	9	0.011823601	-0.018850626	-0.010808915	SGIP1
chr12	122711720	122712381	*	10	0.011831005	-0.02223471	-0.008898963	DIABLO:VPS33A
chr17	43246622	43246982	*	3	0.011851855	0.026545418	0.023281272	HEXIM2
chr15	33359788	33360329	*	6	0.011896595	-0.023168626	-0.013475736	FMN1
chr6	36915498	36916123	*	5	0.011896595	-0.028571903	-0.014001482	PH16
chr12	121570559	121571068	*	7	0.011901621	-0.015042138	-0.006526087	P2RX7
chr2	237415899	237416899	*	10	0.011903406	0.024436137	-0.00097971	IQCA1
chr7	2557319	2558200	*	9	0.011903406	0.02728863	0.011470015	LFNG
chr6	156952100	156952588	*	5	0.011903406	0.019606786	0.007506946	NA
chr2	230451648	230452045	*	7	0.011906152	-0.03444528	-0.014926764	DNER
chr15	49255672	49256258	*	8	0.011915606	0.025118277	-0.001235791	SHC4
chr13	22254743	22255230	*	4	0.011935872	0.030695527	0.001963947	FGF9
chr14	23770452	23771256	*	5	0.011940868	0.006893303	0.003637092	BCL2L2:BCL2L2-PABPN1:HOMEZ:PPP1R3E
chr14	56777076	56777875	*	7	0.011945574	-0.041749424	-0.020107193	NA
chr7	134575306	134576239	*	8	0.011949975	0.026948998	0.004103057	CALD1
chr1	182642748	182643312	*	5	0.011949975	-0.030778354	-0.005318622	RGS8
chr10	75490061	75490334	*	5	0.011960711	0.011447228	0.003632227	AGAP5:BMS1P4:GLUD1P3
chr4	57844912	57845825	*	9	0.011966815	0.021116579	0.002130313	NOA1:POLR2B

chr8	76316585	76317040	*	3	0.011983626	-0.009770782	-0.009081182	<i>HNF4G</i>
chr1	114471173	114471974	*	12	0.011991085	-0.008242813	-0.001231839	<i>HIPK1</i>
chr6	29599319	29600462	*	13	0.012006242	-0.017458335	-0.000985434	<i>GABBR1</i>
chr17	48350468	48350867	*	7	0.012020925	-0.011601681	-0.001159094	<i>TMEM92</i>
chr1	224517614	224518531	*	16	0.012043673	0.013351703	0.000210363	<i>NVL</i>
chr2	173420046	173421107	*	12	0.012047184	-0.022143796	-0.001684212	<i>PDK1</i>
chr9	124982087	124982834	*	4	0.012047184	0.035047404	0.020237839	<i>LHX6</i>
chr9	138130682	138130794	*	3	0.012047184	0.021185263	0.004681174	<i>NA</i>
chr7	27252541	27253521	*	5	0.012057475	-0.031165767	0.002123036	<i>NA</i>
chr12	56390073	56391059	*	10	0.012075887	-0.017819563	-0.008548335	<i>RAB5B;SUOX</i>
chr1	165204410	165205201	*	11	0.012078449	-0.013282266	-0.004559828	<i>LMX1A</i>
chr6	167809876	167810395	*	4	0.012079668	0.029693214	0.016088148	<i>NA</i>
chr1	12538341	12538678	*	6	0.012080278	-0.024990966	-0.011722182	<i>VPS13D</i>
chr12	72057638	72058485	*	16	0.012103397	-0.012794992	-0.00074059	<i>THAP2;ZFC3H1</i>
chr3	107940784	107941759	*	9	0.012113977	0.027222009	0.003160592	<i>IFT57</i>
chr4	105411756	105412832	*	11	0.012127262	0.021336872	-0.00022752	<i>CXXC4</i>
chr6	35995251	35996074	*	16	0.012130093	-0.011726404	-0.000810309	<i>MAPK14;SLC26A8</i>
chr22	41032662	41033637	*	14	0.012131777	-0.015292761	-0.003609954	<i>MRTFA</i>
chr1	1895061	1895206	*	3	0.012139387	0.0187576	0.010760868	<i>CFAP74</i>
chr3	147130477	147131860	*	8	0.012148004	0.016600024	0.000600341	<i>ZIC1</i>
chr17	61818420	61819127	*	4	0.012156428	0.010361447	0.002571818	<i>STRADA</i>
chr5	119799531	119800742	*	10	0.012160969	-0.016326929	-0.006933809	<i>PRR16</i>
chr14	106743465	106744098	*	4	0.012160969	0.025874884	0.02161079	<i>LINC00226</i>
chr5	139553863	139555009	*	16	0.012166314	-0.017652255	0.000277664	<i>CYSTM1</i>
chr7	157980803	157981888	*	6	0.012166314	0.036217832	0.019052433	<i>PTPRN2</i>
chr6	152011399	152012474	*	5	0.012166314	-0.02438072	-0.017866364	<i>ESR1</i>
chr16	49564354	49564462	*	3	0.012166771	-0.030716981	-0.022094713	<i>ZNF423</i>
chr22	50097381	50098317	*	4	0.012178638	0.023497591	0.018413709	<i>NA</i>
chr19	44115850	44116266	*	3	0.012179383	0.025801709	0.007024186	<i>SRRM5;ZNF428;ZNF576</i>
chr10	134914910	134915859	*	10	0.012186544	-0.023566116	-0.011506584	<i>ADGRA1</i>
chr15	82335947	82336571	*	5	0.012189672	0.029672624	0.019398756	<i>MEX3B</i>
chr9	139258938	139260203	*	4	0.01219849	0.042515577	0.014361694	<i>CARD9;DNLZ</i>
chr1	207226824	207227076	*	3	0.01219849	0.029768364	0.007387089	<i>PKFBF2;YOD1</i>
chr10	88123169	88123687	*	3	0.012207171	-0.011183068	-0.007744124	<i>GRID1</i>
chr6	30851417	30852354	*	12	0.012208509	-0.017216566	-0.00236516	<i>DDR1</i>
chr20	62126068	62126827	*	3	0.01223498	0.030571869	0.025955202	<i>EEF1A2</i>
chr2	75144945	75145387	*	3	0.012244664	0.022671454	0.015497581	<i>NA</i>
chr6	159359940	159360209	*	3	0.012251309	-0.042359426	-0.029453089	<i>NA</i>
chr11	2443869	2445442	*	18	0.012262561	0.020857936	0.005621567	<i>TRPM5</i>
chr8	95003548	95003953	*	4	0.012271681	-0.005994868	-0.003215936	<i>NA</i>
chr3	49942076	49942468	*	4	0.012286149	0.01997455	0.005751211	<i>MST1R</i>
chr5	168006544	168007339	*	9	0.012291245	-0.019860045	0.000466914	<i>PANK3</i>
chr17	60972789	60973151	*	3	0.012295399	-0.026153812	-0.013840628	<i>NA</i>
chr5	1037979	1038605	*	5	0.012299347	0.019726814	0.00354698	<i>NKD2</i>
chr2	129076914	129077561	*	4	0.012310448	0.042463874	0.025989877	<i>HS6ST1</i>
chr1	61869210	61869595	*	4	0.012311688	-0.019260039	-0.011456381	<i>NFIA</i>
chr13	110380326	110380729	*	6	0.012330928	0.031664114	0.012993145	<i>NA</i>
chr15	81588897	81589273	*	7	0.012339716	-0.026535019	-0.0063931	<i>IL16</i>
chr3	183898691	183899151	*	7	0.012356818	0.025888844	-0.000906371	<i>ABCF3;AP2M1</i>
chr6	146056770	146057241	*	7	0.012373363	-0.011895971	-0.006124629	<i>EPM2A;FBXO30-DT</i>
chr6	15248611	15249351	*	5	0.012373363	-0.036076738	-0.019716778	<i>JARID2</i>
chr12	132324688	132325615	*	6	0.01237848	0.024760398	0.009920424	<i>MMP17</i>
chr11	94963145	94963674	*	6	0.012380717	-0.00488393	-0.002872801	<i>SESN3</i>
chr11	66277720	66278839	*	10	0.01238483	-0.030493194	-0.015061676	<i>BBS1</i>
chr13	44543031	44543954	*	4	0.012398699	0.016449141	0.009612676	<i>NA</i>
chr21	43161312	43162018	*	4	0.012409482	0.030621938	0.015895519	<i>RIPK4</i>
chr3	26664115	26665093	*	8	0.012419221	-0.015876485	-0.002996913	<i>LRRC3B</i>
chr19	8115260	8116316	*	5	0.012419221	-0.027849124	-0.0101734	<i>CCL25</i>
chr3	50336673	50337494	*	17	0.012423855	-0.029703823	-0.003541337	<i>HYAL1;HYAL3;NAA80</i>
chr7	27778680	27779713	*	15	0.012439483	0.014813426	-0.000787211	<i>TAX1BP1</i>
chr16	2867434	2868001	*	6	0.012439483	0.05479533	0.024454479	<i>PRSS21</i>
chr15	96596177	96596924	*	6	0.01246199	-0.018205991	-0.00936876	<i>NA</i>
chr7	41137006	41137309	*	3	0.012475873	0.030992203	0.006612286	<i>NA</i>
chr9	75567483	75568073	*	4	0.012483695	-0.012451743	-0.002928317	<i>ALDH1A1</i>
chr1	41119283	41119988	*	4	0.01252571	0.029738753	0.02081654	<i>RIMS3</i>
chr12	7282186	7283214	*	18	0.012557288	-0.023146486	-0.006401815	<i>CLSTN3;RBP5</i>

chr6	144471985	144473325	*	4	0.012561992	0.018459886	0.000940459	STX11
chr1	243753445	243754323	*	3	0.012567486	-0.023003883	0.000303682	AKT3
chr11	45354316	45355222	*	4	0.012575817	-0.026249965	-0.012625461	NA
chr11	133777831	133777981	*	3	0.012575817	0.011716064	0.004116078	NA
chr6	31110639	31111270	*	5	0.012576947	0.035285008	0.008520036	CCHCR1;PSORS1C2
chr2	27193211	27193588	*	6	0.012581326	-0.009128803	-0.004268227	MAPRE3
chr3	108019540	108020451	*	3	0.012581326	-0.022655693	-0.011770015	HHLA2
chr16	70286430	70286779	*	3	0.012613498	0.022400812	0.012181103	AARS1;EXOSC6
chr1	156548584	156549533	*	6	0.012615812	0.020313816	0.009277263	TTCC24
chr4	126234763	126236816	*	8	0.012622464	-0.020933178	-0.006344997	FAT4
chr11	108799210	108799922	*	3	0.012638113	0.016240527	0.010660437	DDX10
chr19	39402823	39403373	*	7	0.01263985	-0.033591015	-0.016894621	CCER2
chr7	124569440	124570181	*	9	0.012668979	-0.018341181	-0.002464898	POT1
chr7	148903126	148903301	*	3	0.012672457	0.015775363	0.000253837	ZNF282
chr8	21899862	21900698	*	8	0.01267687	-0.028157458	-0.009544894	FGF17
chr15	89920887	89922071	*	13	0.012681329	0.022944784	0.009344564	MIR9-3HG
chr12	6553092	6553937	*	6	0.012683571	-0.022251905	-0.007545173	CD27;CD27-AS1
chr3	142720700	142720940	*	3	0.012683571	0.009377949	0.001052342	LOC100289361;U2SURP
chr2	128173222	128173750	*	5	0.012688567	-0.015569154	-0.007618809	PROC
chr16	81875718	81876162	*	3	0.012688914	0.018739799	0.016524429	PLCG2
chr1	212803761	212804203	*	3	0.012703388	-0.01949499	-0.00783829	NA
chr1	205600246	205600634	*	4	0.012711816	-0.025610309	-0.009971262	ELK4;SLC45A3
chr4	7787960	7788342	*	4	0.01272403	-0.033966878	-0.013014889	AFAP1
chr19	50553022	50553708	*	6	0.012750147	0.030611454	0.009899624	LOC400710
chr1	192917648	192918151	*	3	0.012765484	-0.025480723	0.00038673	NA
chr21	34913894	34915275	*	19	0.012785272	0.012480802	-0.000912564	GART;SON
chr3	137906196	137906843	*	7	0.012789159	0.005976055	2.08E-05	ARMC8
chr21	46237743	46238210	*	3	0.012796654	-0.02249846	-0.013815627	SUMO3
chr9	140388081	140388604	*	3	0.012804398	0.015755642	0.013310997	PNPLA7
chr3	160822911	160823781	*	14	0.012809661	-0.015205527	-0.004221624	B3GALNT1
chr3	196351986	196352455	*	4	0.012813986	-0.021296594	-0.01144138	NA
chr2	74754237	74755125	*	3	0.012819228	0.0139278	0.004213339	AUP1;DQX1;HTRA2
chr10	134332277	134332442	*	3	0.012827793	-0.051679361	-0.042922001	NA
chr6	162683857	162683961	*	3	0.012834102	-0.011669772	-0.007999311	PRKN
chr19	29583604	29584548	*	6	0.012847361	0.024747673	0.018482231	NA
chr5	139536678	139537207	*	5	0.012852143	0.015101335	0.001175863	NA
chr5	1524227	1525455	*	7	0.01285529	0.026418476	0.008036532	LPCAT1
chr12	58145750	58146835	*	20	0.012856807	-0.013835674	-0.002652305	CDK4;MARCH9
chr16	88102747	88103629	*	7	0.012856807	-0.028762312	-0.004936401	BANP
chr5	129239273	129240801	*	5	0.012862681	-0.021526459	-0.003619484	CHSY3
chr12	103344336	103344685	*	5	0.012877699	-0.013485271	-0.002904991	NA
chr16	20416684	20417094	*	4	0.012895819	-0.017875828	-0.009092184	ACSM5;PDILT
chr5	6755026	6755843	*	7	0.012902935	0.037578489	0.017174702	TENT4A
chr17	79026049	79026354	*	5	0.012907236	0.029594001	0.018261855	BAIAP2
chr12	133194624	133195520	*	8	0.012913449	-0.043212889	-0.011465485	P2RX2
chr14	104761941	104762067	*	3	0.012957857	0.018678565	0.01027791	NA
chr16	8941568	8941958	*	5	0.012959026	0.021310775	0.006493613	PMM2
chr9	6645468	6645883	*	6	0.012965951	-0.012917396	-0.001918511	GLDC
chr1	22263347	22264489	*	9	0.012981323	-0.024909744	-0.013812682	HSPG2
chr17	26698549	26699551	*	8	0.012989328	0.011831138	-0.001079944	SARM1;VTN
chr2	121104187	121105175	*	5	0.012993219	0.018420969	-0.000397001	INHBB
chr7	15601624	15602593	*	4	0.013004357	-0.043118456	-0.018692702	AGMO
chr1	26332153	26332550	*	3	0.013011734	0.020132995	0.013883122	NA
chr7	3096281	3096561	*	4	0.013022755	-0.016703871	-0.00455502	NA
chr14	96115739	96116699	*	3	0.013037328	0.022447574	0.016560749	TCL6
chr1	27190639	27191573	*	4	0.01304059	-0.016423061	-0.009145356	SFN
chr21	45583245	45584432	*	5	0.013047615	0.038190005	0.018097506	NA
chr17	38938637	38938797	*	3	0.013047615	0.021676172	0.006145141	KRT27
chr15	100026370	100026867	*	3	0.013057136	-0.014067281	-0.005443153	NA
chr12	53399093	53399999	*	9	0.013066888	0.023108147	0.008502329	EIF4B
chr17	7380990	7381683	*	3	0.013069052	0.04385392	0.01093495	SLC35G6;ZBTB4
chr10	128810484	128810904	*	3	0.013077709	-0.057183472	-0.046745655	DOCK1
chr17	75567407	75567709	*	3	0.013100308	-0.009385681	-0.00716431	NA
chr18	10862	11855	*	10	0.013134818	0.038117615	0.008585572	NA
chr20	3189311	3190132	*	9	0.013151591	-0.024707598	-0.001315572	DDRGK1;ITPA
chr9	19050206	19050735	*	3	0.013155829	0.02485462	0.013460908	RRAGA

chr19	58458572	58459358	*	13	0.013165471	-0.015141464	-0.002442294	ZNF256
chr9	23820979	23822390	*	15	0.013198775	-0.019391761	-0.005176304	ELAVL2
chr1	11724048	11724943	*	10	0.013215192	-0.028600254	-0.004279479	FBXO6
chr5	170763642	170764118	*	8	0.013234038	-0.033331102	-0.013579482	NA
chr1	110284423	110285277	*	5	0.013241692	0.012211215	0.005677444	GSTM3
chr11	26353484	26354057	*	8	0.013246689	-0.020279199	-0.011652826	ANO3
chr14	105779532	105780431	*	9	0.013251223	-0.019780937	-0.003533005	BRF1-PACS2
chr16	89600764	89601214	*	3	0.013256615	-0.017907119	-0.011620113	SPG7
chr1	24151609	24152077	*	7	0.01325878	-0.021171187	-0.006875227	HMGCL
chr5	149677228	149677639	*	6	0.013265907	0.026311214	0.010425354	ARSI
chr12	57483513	57483793	*	3	0.013276409	0.014662717	0.004517439	NAB2
chr1	167522981	167523769	*	10	0.013279249	-0.024621066	-0.003672589	CREG1
chr1	161193393	161193991	*	3	0.013280095	-0.010423698	0.002929299	APOA2-MIR5187-TOMM40L
chr17	5403805	5404581	*	10	0.013314344	-0.028256501	-0.002508521	LOC728392
chr3	25469430	25470113	*	12	0.013327246	-0.021824366	-0.006565757	RARB
chr2	127782813	127783506	*	8	0.013329868	0.017368614	0.003010514	NA
chr13	113426962	113428332	*	8	0.013329868	0.02639654	0.01518674	ATP11A
chr22	39240094	39240704	*	7	0.013331391	0.019561737	-0.000985713	NPTXR
chr4	55198258	55198664	*	3	0.013339426	-0.017261587	-0.001317472	NA
chr7	157605569	157606434	*	3	0.013344815	0.022818521	0.013354639	PTPRN2
chr1	208083913	208084255	*	5	0.013348265	-0.010685728	-0.004480106	CD34
chr2	74055599	74056290	*	11	0.013362985	-0.020067654	0.001484216	STAMBP
chr19	49828293	49828833	*	10	0.013372242	0.038428241	0.014740868	SLC6A16
chr1	155161161	155161833	*	4	0.013372242	0.022167875	0.014282719	MIR92B-MUC1
chr5	134093972	134094528	*	12	0.013400851	0.011328698	0.000603793	DDX46
chr16	619677	620796	*	10	0.013407392	-0.020678752	-0.008099718	PIGQ
chr11	31848828	31849262	*	6	0.013407392	-0.025018156	-0.005202663	PAX6-AS1-RCN1
chr5	36151174	36151934	*	7	0.013415447	0.01250036	0.002244527	LMBRD2-MIR580-SKP2
chr6	70506028	70506758	*	6	0.013415447	0.01286072	0.001178902	LMBRD1
chr12	132686912	132687376	*	4	0.013415447	0.022427331	0.013576852	GALNT9
chr19	47163979	47164782	*	12	0.013425908	0.011484604	0.001086776	DACT3-DACT3-AS1
chr8	600233	600940	*	4	0.013425908	0.048959441	0.02726608	NA
chr2	63285097	63285846	*	7	0.013448117	-0.007553457	-0.001215696	NA
chr4	153896981	153897705	*	7	0.013448117	0.019793134	0.009925306	FHDC1
chr6	30174845	30175327	*	6	0.013448117	0.026314577	0.013382235	TRIM26
chr3	69248890	69249718	*	3	0.013452149	-0.025349667	-0.016809815	FRMD4B
chr19	55670015	55670466	*	4	0.013456804	0.022985353	0.014074746	DNAF3-TNNI3
chr7	41741320	41741671	*	3	0.013456804	0.022043153	0.010857905	INHBA-INHBA-AS1
chr20	1165065	1165703	*	5	0.013456944	-0.018469593	0.000702847	TMEM74B
chr1	236156587	236157492	*	6	0.013459484	0.024628706	0.006585031	NID1
chr9	123691584	123691850	*	8	0.013463354	0.031069937	0.005887187	TRAF1
chr7	1269385	1270134	*	5	0.013463354	-0.015396871	-0.007697616	UNCX
chr15	57595298	57595798	*	5	0.013463354	0.01681498	0.000304947	LINC00926
chr17	72357992	72358722	*	6	0.013463359	0.017627923	0.012003553	BTBD17-GPR142
chr3	52570248	52571040	*	6	0.013480307	-0.009915432	-0.005320337	NT5DC2-SMIM4
chr2	97303065	97303765	*	5	0.013487056	-0.020357582	-0.008515275	FER1L3-KANSL3
chr2	70484379	70485387	*	17	0.013500753	-0.034960092	-0.005811184	PCYOX1
chr11	125772649	125774406	*	12	0.01351936	-0.046172349	-0.008027893	DDX25-PUS3
chr1	213224145	213224618	*	9	0.013528103	0.031117484	0.010819463	RPS6KC1
chr12	113590790	113591127	*	3	0.013529397	-0.009374338	-0.004520064	CFAP73
chr3	51746670	51747098	*	4	0.013526252	0.008582059	0.000661765	GRM2
chr12	80083252	80085120	*	14	0.013578925	0.012599635	-0.002794436	PAWR
chr1	178455607	178456270	*	5	0.013590973	0.037327088	0.024825651	NA
chr16	857576	858499	*	4	0.013590973	-0.051785469	-0.026184066	PRR25
chr22	46263018	46263463	*	3	0.013592048	-0.014509844	-0.002658629	NA
chr17	19804748	19805143	*	3	0.013595988	0.013813977	0.004966051	NA
chr19	3907913	3908397	*	4	0.013607788	0.035695432	0.022009779	ATCAY
chr10	132363501	132364391	*	3	0.013609809	-0.030330754	-0.002587444	NA
chr3	112737885	112738800	*	15	0.013613103	-0.019326809	-0.002723272	NEPRO
chr20	56227286	56227686	*	3	0.013614666	0.011465761	0.008641071	PMPEA1
chr22	36894057	36894576	*	6	0.013619659	0.024803437	0.009639268	FOXRED2
chr22	17488875	17489762	*	11	0.013622448	0.026950004	0.015543126	GAB4
chr8	10261641	10262221	*	6	0.013658872	0.023589207	0.016389206	MSRA
chr22	43538857	43539309	*	4	0.013670648	-0.029324006	-0.007025795	MCAT
chr4	57737368	5774406	*	7	0.013670869	0.021859292	0.005022823	REST
chr2	17699243	17699980	*	9	0.013677953	-0.027094971	-0.007903026	RAD51AP2

chr7	100028974	100029306	*	3	0.013677953	-0.025591555	-0.002458335	MEPCE;ZCWPW1
chr16	4664854	4665704	*	8	0.013681722	0.023237614	0.004095001	UBALD1
chr10	26503817	26504580	*	5	0.013681722	-0.017913928	-0.005274674	GAD2
chr14	105612753	105613102	*	3	0.013681722	-0.014002045	0.000144612	JAG2
chr5	146832933	146833665	*	5	0.013681986	-0.006298864	-0.000590985	DPYSL3
chr15	57025816	57026315	*	8	0.01368458	0.027286226	0.009853586	ZNF280D
chr18	42643290	42643746	*	3	0.01368458	0.022325143	0.011146464	SETBP1
chr17	1942040	1942194	*	3	0.013719527	-0.020652941	-0.00270316	DPH1;OVCA2
chr11	118213272	118213651	*	5	0.013723781	-0.020767116	-0.010227215	CD3D;CD3G
chr11	58344749	58345717	*	8	0.013733041	-0.030611479	-0.00166075	LPXN;ZFP91;ZFP91-CNTF
chr20	30777790	30778628	*	5	0.01375436	-0.011941806	-0.00262083	TSPY26P
chr7	128922791	128922979	*	3	0.013759239	0.024893853	0.011715557	AHCYL2
chr1	19972628	19972777	*	3	0.013765124	0.02962816	0.02255287	MICOS10-NBL1;NBL1
chr2	44001018	44001411	*	6	0.013765926	-0.025835035	-0.011533369	DYNC2L11
chr8	144680893	144681482	*	5	0.013769974	0.020681023	0.012133677	EEF1D;TIGD5
chr17	4634022	4634211	*	4	0.013776222	0.034316322	0.021440755	MED11
chr11	119251690	119252980	*	11	0.013809274	-0.023737281	-0.005774169	USP2;USP2-AS1
chr6	32938781	32940060	*	25	0.013810037	-0.03751703	-0.000120196	BRD2
chr7	35077598	35078364	*	13	0.013815665	-0.042270288	-0.006237773	DPY19L1
chr19	1478715	1479573	*	11	0.013821857	0.009252601	0.000768211	C19orf25
chr11	57529255	57529614	*	5	0.013828686	-0.01655788	-0.012602087	CTNND1;TMX2-CTNND1
chr14	69725831	69726916	*	15	0.013831323	0.017253156	-0.000647747	GALNT16
chr4	57301897	57302310	*	8	0.013843489	0.005565151	0.000900945	PAICS;PPAT
chr17	78735268	78735596	*	5	0.013843489	-0.02629022	-0.011290118	RPTOR
chr5	6449001	6450051	*	6	0.013844979	-0.01887339	0.001165965	UBE2QL1
chr1	51442861	51443457	*	6	0.013850902	-0.015316091	-0.001948537	NA
chr12	113659329	113660045	*	3	0.013874774	0.016328562	0.006629912	IQCD;TPCNI
chr17	41465966	41467066	*	12	0.013884618	-0.016972814	-0.004500566	LINC00910
chr14	38066873	38067622	*	3	0.013884618	-0.009288479	-0.006842947	FOXA1
chr17	76129331	76130139	*	6	0.013886562	-0.017513821	-0.011182258	TMC6;TMC8
chr1	55266578	55267293	*	11	0.013899297	-0.012235376	-0.003135419	LEXM;TTC22
chr14	96670738	96671262	*	10	0.01391206	-0.015627039	-0.006457803	BDKRB2
chr1	149870975	149872165	*	13	0.013924696	0.03280671	0.00638661	BOLA1
chr6	28493019	28493601	*	6	0.013937184	0.024428371	-0.005990673	GPX5
chr8	785815	786897	*	7	0.013963634	0.01514868	0.005193054	NA
chr6	106429610	106430134	*	4	0.01396577	0.042190245	0.018213129	NA
chr6	148663353	148663964	*	11	0.013969201	-0.01691373	-0.001127529	SASH1
chr22	21271192	21271516	*	6	0.014016569	-0.009089698	-0.003803574	CRKL
chr3	130613286	130614013	*	9	0.014024546	-0.012353331	-0.004352481	ATP2C1
chr14	91141279	91141833	*	4	0.014026275	0.033059	0.01122603	TTC7B
chr19	54384822	54385441	*	10	0.014036854	0.009222524	-0.002274884	PRKCG
chr6	106958474	106960170	*	10	0.014039939	-0.027122989	-0.007294015	CRYBG1
chr4	174442784	174443865	*	7	0.014043322	-0.021978218	-0.004709884	NA
chr15	89951404	89952499	*	8	0.014060831	-0.016418087	-0.005980816	NA
chr7	112089921	112090672	*	11	0.014064224	0.025867181	0.001735034	IFRD1
chr2	201727403	201728010	*	4	0.014064393	-0.004387659	-0.0034721	CLK1
chr17	42402738	42403239	*	5	0.014124743	-0.011978272	-0.005205882	SLC25A39
chr6	43336481	43336734	*	3	0.014136196	0.008989935	0.001089905	ZNF318
chr17	55362520	55363072	*	4	0.014152972	-0.01942998	-0.012968719	MSI2
chr10	76969779	76971052	*	16	0.014153039	-0.018502573	-0.003186262	VDAC2
chr17	1992166	1992876	*	5	0.014191244	0.018471958	0.009957232	SMG6
chr7	150499080	150499493	*	4	0.014193868	0.017270723	0.013826354	TMEM176A;TMEM176B
chr16	89069935	89070924	*	8	0.014213206	-0.020405546	-0.00437574	NA
chr7	55430948	55431276	*	3	0.014213206	0.033155983	0.024060544	LANCL2
chr10	65225927	65226682	*	9	0.014213581	-0.021947448	-0.001835834	JMJD1C;JMJD1C-AS1
chr5	36693068	36693415	*	3	0.014215554	-0.010970622	-0.007783657	NA
chr6	27342060	27342632	*	6	0.014221854	-0.012387996	-0.003909834	ZNF204P
chr10	134621538	134622019	*	3	0.014237826	-0.033296525	-0.013190078	CFAP46
chr1	53557926	53559001	*	7	0.014246923	0.024808405	0.008923629	SLC1A7
chr11	31845639	31846819	*	5	0.014251877	-0.015615395	-0.010449048	PAX6-AS1;RCN1
chr16	56665855	56666640	*	7	0.014254414	-0.032796775	-0.00779341	MT1A;MT1JP;MT1M
chr6	32804628	32806022	*	14	0.014256889	0.030836577	0.006366892	TAP2
chr1	110307811	110307912	*	3	0.014256889	0.018560008	0.010598018	EPS8L3
chr9	111929547	111930197	*	6	0.014261511	0.029312687	0.014623718	FRS1L
chr20	46130617	46131560	*	8	0.014271609	-0.032635807	-0.007350472	NCOA3
chr16	341185	341404	*	3	0.014273415	0.016746281	0.006744855	AXIN1;LUC7L

chr19	17631836	17631991	*	3	0.014281196	0.020344993	0.012508814	NIBAN3:PGLS
chr17	48211226	48211745	*	3	0.014287117	-0.02860513	-0.007999406	PPP1R9B:SAMD14
chr16	34208209	34209247	*	4	0.01429754	0.040351923	0.027122161	NA
chr1	23111011	23111493	*	5	0.014307625	0.020279378	0.013312703	EPHB2
chr16	2076057	2076818	*	6	0.014314048	-0.024594984	-0.010674692	SLCOA3R2
chr17	58469253	58469739	*	7	0.014315253	0.01439757	-0.000135735	USP32
chr7	1491280	1492018	*	7	0.014319799	0.014909544	0.005810545	MICALL2
chr2	239059379	239060032	*	5	0.014336401	0.026405123	0.013909654	KLHL30
chr16	2132245	2133032	*	5	0.014340935	-0.018382378	-0.006988619	TSC2
chr4	84456671	84457956	*	25	0.01438094	-0.021596009	-0.001936121	GPAT3
chr2	240884646	240884925	*	4	0.014387675	-0.017397559	-0.010115737	MIR4786
chr12	111536320	111537211	*	6	0.014389374	-0.012101773	-0.001682178	CUX2
chr6	5026164	5026559	*	6	0.014397687	-0.026319206	-0.011922164	NA
chr19	35939523	35940174	*	3	0.014401537	-0.02790452	-0.015243163	FFAR2
chr12	112152862	112153283	*	3	0.014401537	-0.02682651	0.000701893	ACAD10
chr15	41135432	41136797	*	15	0.014410763	-0.022444572	0.001377423	SPINT1
chr6	30796199	30796312	*	4	0.014442372	0.043715712	0.021105698	NA
chr1	51795862	51796003	*	3	0.014442372	-0.026552909	-0.01952831	TTC39A
chr3	44753069	44754201	*	10	0.014450373	0.028613243	-0.00050368	ZNF502
chr1	52869541	52870289	*	12	0.014491037	0.014670341	0.001873977	ORC1:PRPF38A
chr9	120659642	120660089	*	3	0.014514605	0.043652879	0.003709319	NA
chr11	325964	327178	*	5	0.014515467	-0.044846521	-0.013628395	NA
chr18	46287850	46288073	*	4	0.014518019	0.016809412	0.00624362	CTIF
chr6	10838284	10839508	*	12	0.014532768	0.018368978	0.001737519	MAK:SYCP2L:TMEM14B
chr17	80454611	80455059	*	3	0.014532768	-0.017578813	-0.009473813	NA
chr12	6451035	6451316	*	5	0.014542392	-0.006562901	-0.00406223	TNFRSF1A
chr2	241611931	241612327	*	4	0.014543368	-0.036850609	-0.025346206	NA
chr7	6055517	6056470	*	5	0.014544035	0.036738896	0.013696827	AIMP2
chr12	120703085	120704034	*	11	0.01454932	-0.044302892	-0.012228006	PXN
chr12	110010943	110011803	*	23	0.014559751	-0.009935017	-0.00206404	MMAB:MVK
chr5	172068692	172069173	*	3	0.014574376	-0.019296625	-0.003264223	NEURL1B
chr3	48955643	48956213	*	11	0.014581076	0.010945003	0.000381247	ARIH2:ARIH2OS
chr6	86303159	86304240	*	13	0.014592513	-0.006491215	-0.000908658	SNX14
chr5	16372323	163724070	*	10	0.014594905	-0.034908138	-0.013928053	NA
chr22	38092643	38093207	*	12	0.01460411	-0.019186124	-0.0008529228	TRIOBP
chr1	1275578	1276019	*	3	0.014618938	-0.012467718	-0.001175521	DVL1
chr12	13044495	13044862	*	3	0.014626468	0.031794296	0.012614607	GPRC5A
chr18	21718458	21718979	*	11	0.014637738	-0.012372507	-0.00275105	CABYR
chr2	26624228	26625047	*	12	0.014648711	-0.021272503	-0.005171161	DRC1
chr20	48531381	48532315	*	9	0.014658636	0.011848964	-0.001195967	SPATA2
chr2	25015896	25016582	*	16	0.014665128	-0.010329772	-0.000777552	CENPO:PTRHD1
chr19	2281919	2282928	*	9	0.014665603	-0.036431994	-0.010306299	PEAK3:SPPL2B
chr7	73704188	73704691	*	4	0.014684719	-0.046058642	-0.016256182	CLIP2
chr5	137609681	137610988	*	13	0.014742575	0.013776257	-0.002825481	GFR3
chr8	70747067	70748063	*	11	0.014742575	0.012047866	-0.001030138	SLCO5A1
chr19	1718954	1719126	*	3	0.014742575	-0.01461795	-0.005944917	NA
chr3	42948816	42949540	*	3	0.014742575	0.02507518	0.014767528	ZNF662
chr10	43892790	43893073	*	9	0.014747203	-0.021770464	-0.006745121	HNRNPF
chr4	82136116	82136940	*	10	0.014755267	-0.024370882	-0.00497467	PRKG2
chr16	21133049	21133312	*	4	0.01477502	-0.018916847	-0.001549595	DNAH3
chr1	231761688	231762737	*	11	0.014784723	-0.016855365	-0.00546985	DISC1:TSNAX-DISC1
chr1	26346675	26347092	*	4	0.014788166	-0.011836725	-0.0004805	EXTL1
chr2	2735923	2736144	*	3	0.014809164	0.028611744	0.013084746	NA
chr16	1206750	1207623	*	5	0.014819439	0.026797741	0.013775736	CACNA1H
chr18	55712976	55714393	*	9	0.014825527	-0.025715554	-0.00554801	NEDD4L
chr17	27054409	27055188	*	4	0.014825527	-0.024129571	-0.003898915	NEK8:TLCD1
chr10	102744788	102745518	*	4	0.014825527	0.049906537	0.018951715	MRPL43:SEMA4G:TWNK
chr4	2794616	2794637	*	3	0.014828546	0.012062461	0.004498015	SH3BP2
chr20	44098223	44098724	*	7	0.014831954	0.01351641	0.006467206	WFDC2
chr7	158649018	158649327	*	8	0.014839411	-0.006892835	0.00010241	DYNC211
chr20	61810348	61810902	*	5	0.014839411	-0.009428965	-0.001230697	NA
chr16	87252369	87253391	*	6	0.014868058	0.014715396	0.011656189	NA
chr10	82295394	82295864	*	4	0.01486847	-0.049782025	-0.023170785	SH2D4B
chr7	29724677	29725196	*	4	0.014873066	-0.009527668	-0.002633149	DPY19L2P3:LOC646762:MIR550A3
chr18	22929205	22930271	*	4	0.014879626	-0.032155999	-0.011307789	ZNF521
chr12	12867669	12867916	*	6	0.014884474	0.020110245	0.004714179	CDKN1B

chr2	113914442	113914844	*	6	0.014894707	-0.024382934	-0.004915493	NA
chr16	81772202	81773196	*	9	0.014910454	0.019267128	-0.000249894	NA
chr4	185655229	185655968	*	11	0.014911941	-0.021999152	-0.001593716	CENPU
chr4	109097253	109097522	*	3	0.014918855	0.030259788	0.015484353	LEF1-AS1
chr22	24122661	24123385	*	4	0.01492082	0.024210971	0.006297171	MMP11
chr1	3400412	3400780	*	3	0.014969793	-0.042001989	-0.020048505	NA
chr22	38240259	38241182	*	11	0.01500444	-0.021724768	-0.00496468	ANKRD54;EIF3L;MIR658
chr6	131949010	131949743	*	10	0.015017454	-0.018181678	-0.004354448	ENPP3;MED23
chr10	122610059	122611141	*	10	0.015033829	-0.028001699	-0.008186148	WDR11;WDR11-AS1
chr16	850240	850880	*	9	0.015039017	-0.019068261	-0.006550694	GNG13;PRR25
chr5	174412095	174412496	*	3	0.015054121	0.019891762	0.004376542	LINC01951
chr15	40384779	40385714	*	3	0.015054849	0.025598689	0.015749075	BMF
chr19	14785593	14785849	*	5	0.015067354	-0.01910282	-0.010243851	ADGRE3
chr2	192015279	192015996	*	10	0.015072685	-0.015679986	-0.006066056	STAT4
chr16	2963569	2964815	*	3	0.015087082	0.022183521	0.016428305	FLYWCH1
chr20	56725695	56726185	*	12	0.015094127	-0.016800104	0.001054162	C20orf85
chr2	176120799	176121126	*	3	0.015110622	-0.028984777	-0.007070403	NA
chr1	17445660	17446545	*	12	0.015112615	0.01857413	-0.001682466	PAD12
chr7	102988186	102989081	*	5	0.015115772	-0.021164153	-0.011220718	DNAJC2;PSMC2
chr11	66838934	66839363	*	5	0.015123639	0.032039886	0.01731722	RHOD
chr19	6739268	6740123	*	10	0.015124411	-0.026155777	-0.004188812	GPR108;TRIP10
chr6	138104026	138104345	*	3	0.015124411	0.022043926	0.004509472	NA
chr5	122424059	122424706	*	6	0.015126618	-0.007791783	-0.000833007	PRDM6
chr6	105627412	105628179	*	13	0.015138006	-0.010722148	-0.002887197	POPDC3
chr15	28362214	28362747	*	6	0.015147345	0.018963879	0.009380118	HERC2
chr20	326934	327623	*	6	0.015147345	0.038278732	0.013434589	NKSN2
chr22	17564994	17565612	*	4	0.015147345	-0.010235938	0.00067181	ILI7RA
chr1	108507910	108508626	*	7	0.015160105	-0.024081519	-0.004567098	VAV3;VAV3-AS1
chr17	5973366	5973545	*	3	0.015168	-0.026382987	-0.005841253	WSCD1
chr12	131493506	131494244	*	4	0.01518002	0.012024549	0.003221399	ADGRD1
chr4	159091762	159092193	*	5	0.015180542	-0.029482702	-0.013167538	GASK1B
chr12	133706128	133706422	*	3	0.015180542	-0.040712063	-0.021036067	ZNF10;ZNF268;ZNF891
chr7	2594836	2595269	*	3	0.015187714	-0.009888007	-0.001915334	BRAT1;IQCE
chr2	3621757	3622594	*	4	0.015190669	-0.017956518	-0.01377825	RPS7
chr11	85375153	85376223	*	5	0.015203984	-0.010869025	-0.005553543	CREBZF
chr1	2246464	2247066	*	4	0.015246757	0.021305126	0.007404082	NA
chr5	108082637	108083489	*	6	0.015253465	-0.02501695	-0.006668381	FER
chr2	42652272	42652321	*	3	0.015256149	-0.020565656	-0.015032486	NA
chr1	25439789	25440431	*	4	0.015265134	0.016666332	0.001093546	NA
chr14	36993517	36994153	*	4	0.015271068	0.010994044	-0.00289728	NKX2-1;SFTA3
chr19	44555412	44556485	*	10	0.015306227	-0.020393789	-0.005770178	ZNF223;ZNF284
chr13	32605187	32605952	*	13	0.015322811	-0.012014009	-0.002288369	FRY
chr4	183713468	183714417	*	6	0.015323338	-0.015213486	-0.001342464	TENM3
chr14	42073791	42074635	*	6	0.015323338	-0.014552968	0.000932209	LRFN5
chr1	151170706	151171057	*	7	0.015334775	-0.00750867	-0.002884493	PIP5K1A
chr17	1157257	1157446	*	5	0.01533545	-0.040151491	-0.016043464	NA
chr5	122971759	122972409	*	3	0.015349138	0.014632094	0.013795595	NA
chr8	99985888	99986344	*	3	0.015349177	-0.011574938	-0.004524945	NA
chr13	33113010	33114005	*	11	0.01535447	-0.028049558	-0.005359328	N4BP2L2
chr14	105951604	105952171	*	5	0.015370545	0.019133895	0.004368354	CRIP1;TEDC1
chr1	11823776	11824383	*	4	0.01540144	0.013908954	0.00800906	NA
chr16	17562419	17563300	*	4	0.015454853	0.024204385	0.017142112	XYLT1
chr7	29873786	29874354	*	3	0.015459217	0.022510056	0.015562159	WIPF3
chr2	202791155	202791994	*	4	0.015469225	0.019441352	0.003087581	NA
chr7	6577467	6577538	*	3	0.015486704	0.017568812	0.013154927	GRID2IP
chr7	55313012	55313442	*	3	0.015500026	0.027698784	0.000642195	NA
chr1	19746405	19746730	*	3	0.015500026	0.029581022	0.020410742	CAPZB
chr16	87669476	87671160	*	9	0.015525023	-0.027901632	0.002545155	JPH3
chr2	121670282	121670634	*	3	0.015530163	0.01733509	0.011791595	GLI2
chr13	20735819	20736342	*	8	0.015554319	0.027704369	0.00764551	GJA3
chr15	64648609	64649139	*	5	0.015565952	0.026684625	0.010151436	CSNK1G1
chr12	2144198	2144456	*	3	0.015577371	-0.017733632	-0.01054087	NA
chr12	81107990	81108034	*	3	0.0155799	-0.020615756	-0.016492119	MYF5
chr4	52916851	52917875	*	12	0.015588807	0.035943058	0.000841697	SPATA18
chr10	64578469	64579646	*	10	0.015588807	0.030732584	0.010277401	EGR2
chr6	111407833	111409547	*	14	0.015611012	0.012210619	4.80E-05	SLC16A10

chr7	97755534	97755792	*	6	0.015613896	-0.022728012	-0.012435471	LMTK2
chr2	172289750	172289953	*	3	0.015614554	0.026072842	0.009682355	DCAF17;METTL8
chr5	50265600	50266394	*	9	0.015635516	-0.035803721	-0.006214607	NA
chr2	25391274	25392556	*	12	0.015649503	0.020298174	0.006461689	POMC
chr18	63417605	63418672	*	7	0.015649503	-0.010108681	-0.005303876	CDH7
chr14	104263779	104264228	*	3	0.015670475	-0.021198238	-0.019126426	PPP1R13B
chr2	29320166	29320905	*	9	0.015673688	-0.018740775	-0.002872542	CLIP4
chr19	1295582	1295929	*	4	0.015677342	-0.015067347	-0.0084535	EFNA2
chr1	22974053	22975587	*	7	0.01567774	0.026309555	0.012660411	C1QB;C1QC
chr11	77185354	77185761	*	5	0.01568025	-0.026977406	-0.008610754	PAK1
chr2	112918222	112918552	*	3	0.015691156	0.026542521	0.016267937	FBLN7
chr8	142264072	142264769	*	7	0.015693308	0.020723778	0.005379178	SLC45A4
chr10	89266785	89267405	*	5	0.015699255	0.026610622	0.009310995	MINPP1
chr2	208104158	208104518	*	3	0.015707532	-0.015494818	-0.010826447	NA
chr11	67169070	67169884	*	12	0.015710918	-0.046887515	-0.007277251	PPP1CA;TBC1D10C
chr3	169377818	169379266	*	9	0.015717961	-0.011590706	-0.005224765	MECOM
chr3	71592056	71592501	*	3	0.015722826	-0.021273103	-0.017382423	FOXPI;MIR1284
chr11	17229012	17229662	*	5	0.015730437	-0.010513323	-0.002433849	PIK3C2A
chr7	1498641	1499734	*	11	0.015777693	-0.020167433	-0.008059633	MICALL2
chr11	47511134	47511307	*	3	0.015784784	-0.01383469	-0.007644797	CELLF1
chr4	1350275	1350545	*	4	0.015790653	-0.035949811	-0.012244029	UVSSA
chr2	47796781	47797963	*	9	0.015805613	-0.020706331	-0.001843915	KCNK12;MSH2
chr16	86016317	86017380	*	4	0.015805613	-0.020357819	-0.014070663	NA
chr10	106074540	106075560	*	5	0.015818829	0.020055466	0.010092295	ITPRIP
chr17	2075719	2076468	*	4	0.01582005	0.024122546	-0.000663497	SMG6
chr17	6543996	6544903	*	16	0.015838378	0.007035378	-0.001022808	KIAA0753;TXNDC17
chr2	217236040	217237043	*	15	0.015838499	-0.012421226	-0.00342155	MARCHF4
chr22	39745530	39745743	*	5	0.01585182	-0.016142994	-0.007809739	SYNGR1;TAB1
chr4	69215865	69217218	*	13	0.015865126	-0.034068167	-0.004755765	YTHDC1
chr7	29603056	29603541	*	10	0.015881383	-0.012755054	-0.002462706	PRR15
chr19	1466497	1467032	*	5	0.015910407	-0.027584093	-0.010799686	APC2;C19orf25
chr15	78527113	78527410	*	3	0.015918653	0.021072339	0.012097764	ACSBG1
chr22	50511322	50511738	*	4	0.015940067	0.017901394	0.0134704	MLC1
chr7	138720457	138721065	*	8	0.015974105	0.013242762	0.001531656	ZC3HAV1L
chr15	93182492	93182916	*	4	0.015975149	0.036812633	0.011303565	FAM174B
chr3	67345234	67345761	*	3	0.015976425	-0.01461824	-0.003517782	NA
chr8	144461411	144462235	*	6	0.016029982	0.021769343	0.011467957	RHPN1
chr19	46009775	46010241	*	5	0.01605191	0.01076674	0.001513763	VASP
chr17	1104627	1104805	*	3	0.01605191	0.021135135	0.01606965	NA
chr11	995292	996011	*	4	0.016052788	0.015004112	0.012689371	AP2A2
chr10	38382849	38383804	*	7	0.01605825	-0.007998821	-0.001022333	ZNF37A
chr3	196014280	196015218	*	12	0.016059809	0.017760704	0.001106246	PCYT1A
chr6	32062554	32063126	*	6	0.01607147	-0.011645117	0.002235441	TNXB
chr9	23826065	23826507	*	6	0.01607695	-0.014070601	-0.00721824	ELAVL2
chr13	36920332	36920813	*	7	0.016079977	-0.014445753	-0.004110771	SPART;SPART-AS1
chr21	39576893	39577464	*	3	0.016086671	0.021811522	0.00352942	DSCR10
chr12	130823570	130824529	*	7	0.016102975	-0.054632501	-0.02054944	PIWIL1
chr11	637885	638974	*	6	0.016111862	0.042733292	0.027023697	DRD4
chr15	74218217	74218921	*	11	0.016118906	0.019318807	0.007303093	LOXL1;LOXL1-AS1
chr1	222987498	222988866	*	11	0.016126087	-0.036110765	-0.005931124	DISP1
chr10	43476985	43477278	*	4	0.016126196	0.022559727	0.012409395	NA
chr4	26861261	26862605	*	11	0.016131417	0.03784561	0.000279439	STIM2
chr2	217351940	217352368	*	4	0.016133929	0.02802152	-0.000855483	NA
chr1	85527754	85528044	*	9	0.016135762	-0.019498357	-0.006805399	DNAI3
chr7	149569946	149571732	*	22	0.016153509	-0.027520029	-0.004830772	ATP6VOE2;ATP6VOE2-AS1
chr12	41582961	41583721	*	4	0.016226917	0.023257777	0.001282095	PDZRN4
chr4	75859672	75860346	*	5	0.016242323	-0.017558601	-0.002236307	PARM1
chr12	122617356	122618405	*	10	0.016251873	0.022620421	0.002689206	MLXIP
chr2	240112249	240113010	*	8	0.016251873	0.053765824	0.018335193	HDAC4
chr2	99061081	99061575	*	7	0.016251873	-0.016358762	-0.003103006	INPP4A
chr19	51412615	51412749	*	3	0.016251873	-0.008154485	-0.004306374	KLK4
chr1	1897585	1897785	*	3	0.016267642	0.032652794	0.016022089	CFAP74
chr11	9780844	9781412	*	4	0.016286908	0.029284102	0.012922106	LINC02709;SBF2-AS1
chr19	19322527	19323330	*	9	0.01633783	-0.026506579	-0.001080694	NCAN
chr4	157996959	157997750	*	13	0.016354798	-0.02281362	-0.004185701	GLRB
chr17	14203652	14204593	*	8	0.016355837	-0.010844978	-0.004262622	HS3ST3B1;MGC12916

chr12	53183508	53184277	*	7	0.016357285	-0.021994736	-0.010344412	KRT3
chr19	51920885	51921812	*	5	0.016369159	-0.016334607	-0.001889941	SIGLEC10
chr4	141047768	141048293	*	3	0.016384514	0.018791505	0.011157601	MAML3
chr2	129079038	129080120	*	7	0.016388851	0.021776011	0.007163689	HS6ST1
chr6	28191910	28193011	*	8	0.016409569	0.019901405	0.002081703	ZSCAN9
chr10	118563568	118563859	*	3	0.016448702	0.020533592	0.004800514	HSPA12A
chr20	61038949	61039348	*	3	0.016448916	0.02917538	0.01759386	GATA5
chr19	47288915	47289611	*	4	0.016454982	0.02102271	0.010685495	SLC1A5
chr5	1128038	1128391	*	3	0.016459527	0.018528048	0.006060769	NA
chr9	127273145	127273395	*	3	0.016470557	0.014478378	0.000299654	NR5A1
chr1	91172930	91173232	*	4	0.016478384	-0.01711019	-0.009511949	NA
chr7	84815088	84815940	*	6	0.01648163	0.016914797	0.00045142	SEMA3D
chr12	133020746	133021713	*	5	0.016494302	-0.031105061	-0.009368539	NA
chr3	111392915	111393685	*	11	0.01650544	-0.015026806	-0.005003891	PLCXD2
chr4	941966	942342	*	4	0.016513859	0.020849089	0.008442057	TMEM175
chr12	122658311	122659253	*	8	0.016525724	0.020100984	0.009105564	IL31:LRRC43
chr22	18924903	18925277	*	3	0.016526937	0.021649004	0.011175563	PRODH
chr2	213401544	213403678	*	16	0.016536416	-0.013473177	-0.00440682	ERBB4
chr19	46142357	46143348	*	10	0.016550535	-0.03393861	-0.009503436	EML2:EML2-AS1:MIR330
chr4	41114478	41115076	*	3	0.016572505	0.023842404	0.006893878	APBB2
chr3	15466687	15467412	*	5	0.016583476	-0.028927395	-0.002115854	EAF1:METTL6
chr22	31522682	31522712	*	3	0.016589053	0.01660448	0.012253233	INPP5J
chr10	86087948	86088681	*	11	0.016606641	-0.029675272	-0.011798635	CCSER2
chr21	15442816	15443107	*	3	0.016623568	0.018681825	0.014141887	NA
chr17	27048223	27048708	*	4	0.016651439	0.036635622	0.017142658	RAB34:RPL23A:SNORD42A:SNORD4A:SNORD4B
chr14	22362071	22362473	*	5	0.016666263	0.0116121	7.80E-05	NA
chr17	139511	140192	*	3	0.016666263	0.034447463	0.023274305	RPH3AL
chr7	44142953	44143290	*	4	0.016668292	-0.016297759	-0.002524579	AEBP1
chr22	33454623	33455507	*	4	0.016674801	0.036663809	-0.002032481	SYN3
chr14	73602752	73603844	*	16	0.016682628	0.018218811	0.002379164	PSENI
chr13	112187145	112187396	*	4	0.016682628	-0.0234475	-0.017324296	NA
chr7	156796145	156796929	*	3	0.016710722	0.00922675	0.005988325	MNX1
chr16	33964783	33965573	*	5	0.016742999	0.040383601	0.023394655	LINC00273
chr10	101190311	101191565	*	12	0.016749364	-0.030298277	-0.001564959	GOT1
chr3	74571102	74571266	*	3	0.016766462	-0.017289563	-0.004798573	CNTN3
chr5	173043505	173044411	*	13	0.016787162	-0.030893511	-0.000348991	BOD1
chr13	95355117	95355869	*	6	0.016788243	-0.021130435	-0.007552447	NA
chr2	172016605	172017432	*	6	0.016793113	-0.01132714	-0.002847247	TLK1
chr1	59483475	59484803	*	5	0.016804743	-0.03552659	-0.01652936	NA
chr11	16628335	16629289	*	8	0.016816268	-0.013051322	-0.006822585	SOX6
chr5	180477311	180478185	*	4	0.016818272	-0.032745269	-0.007701129	BTNL9
chr10	134771944	134772055	*	3	0.016828338	-0.03493304	-0.014793249	NA
chr1	247275326	247276096	*	12	0.01684015	0.02617706	0.003993814	C1orf229
chr1	244013668	244014035	*	5	0.016844667	-0.01761009	-0.006385227	NA
chr10	131200784	131200834	*	3	0.016849089	-0.011932233	-0.004786383	NA
chr1	160808959	160809639	*	4	0.016856701	-0.027002684	-0.012691501	CD244
chr7	100491714	100492700	*	7	0.016867182	0.012700099	0.005301492	ACHE:UFSP1
chr17	1509247	1510080	*	6	0.016895659	0.021340685	0.013276123	SLC43A2
chr2	107501733	107502146	*	3	0.016923254	-0.007793039	-0.001851372	ST6GAL2
chr7	97804327	97804838	*	3	0.016926456	-0.024426028	-0.007530598	LMTK2
chr10	6962119	6962454	*	6	0.016934532	-0.027269922	-0.010176799	NA
chr1	32891825	32892367	*	3	0.01696712	-0.024788067	0.000197265	NA
chr17	16310297	16310862	*	3	0.017003069	-0.019698936	-0.006723236	NA
chr16	81253692	81254719	*	9	0.01702391	0.041991051	0.016327684	PKD1L2
chr8	117767944	117769166	*	9	0.017046069	-0.026708775	-0.000508285	EIF3H
chr8	145550361	145550989	*	8	0.017064322	-0.012324353	-0.003511989	DGAT1
chr1	116270626	116271272	*	4	0.017072496	0.02534952	-0.004029566	CASQ2
chr5	124064272	124064481	*	3	0.017076714	-0.01824658	-0.00312009	ZNF608
chr17	79086355	79086564	*	4	0.017080996	0.015654972	0.010809934	BAIAP2
chr10	22609629	22610507	*	8	0.017086309	-0.024031625	-0.006108234	BMI1:COMMD3-BMI1
chr7	157637416	157637560	*	3	0.017094674	-0.020549724	-0.004167866	PTPRN2
chr19	4152651	4152810	*	3	0.017108224	-0.016747944	-0.00878935	CREB3L3
chr16	89988910	89989486	*	7	0.017115229	0.022317945	-0.000888394	TUBB3
chr1	24882347	24882991	*	7	0.017125944	-0.030667112	-0.011883686	NCMAP
chr19	42787762	42788966	*	9	0.01714754	-0.028071049	-0.008931107	C1C
chr18	2912735	2913254	*	6	0.017177858	0.019462273	0.013789838	EMLIN2

chr4	13543730	13544301	*	3	0.017206514	-0.015525409	-0.007623959	NKX3-2
chr5	56471120	56471598	*	3	0.017206514	-0.006448515	-0.000889711	GPBP1
chr5	72415900	72416677	*	11	0.017218797	-0.025169123	-0.008992028	TMEM171
chr13	114100469	114100961	*	3	0.017225917	0.021524846	-0.000609043	ADPRHL1
chr4	1348302	1348867	*	3	0.017229062	-0.015157962	-0.004349205	UVSSA
chr5	1316038	1316636	*	3	0.017238788	-0.021690578	-0.014272679	NA
chr18	44676421	44677236	*	12	0.017241699	-0.01021176	-0.001235376	HDHD2
chr5	54467244	54467799	*	3	0.017244858	-0.032665537	-0.013055571	CDC20B;MIR449A;MIR449B
chr18	48085453	48086162	*	6	0.017253809	0.026191387	0.000240705	MAPK4
chr11	105893010	105893693	*	9	0.017280649	-0.016183888	-0.004286383	MSANTD4
chr12	123458650	123459401	*	15	0.017325873	-0.014227306	-0.001808053	ABCY9;OGFOD2
chr16	87798736	87799191	*	3	0.017338757	-0.025673856	-0.008444809	KLHDC4
chr13	28498878	28499045	*	3	0.017338757	0.029504644	0.009500049	PDX1
chr7	5553266	5553627	*	5	0.01737238	-0.01410206	-0.000603523	FBXL18
chr1	17846708	17846815	*	4	0.01737238	-0.025788521	-0.013006767	ARHGEF10L
chr16	570658	571091	*	4	0.01737238	-0.013920436	-0.000552017	RAB11FIP3
chr19	42509801	42510093	*	4	0.01737543	0.028232972	0.018276016	GRIK5
chr15	62358531	62359539	*	10	0.017377839	-0.009804463	-0.00338342	C2CD4A
chr3	128967393	128968397	*	8	0.017393077	0.010786235	0.001081439	COPG1
chr1	1552883	1553405	*	3	0.017394906	0.014715774	0.001738407	MIB2
chr4	113970506	113971324	*	8	0.017397617	-0.019701653	-0.008737109	ANK2
chr15	75181100	75181724	*	3	0.017424097	0.01724503	0.012686805	MPI
chr1	235667507	235668421	*	10	0.017429291	-0.015330754	-0.001583664	B3GALNT2
chr18	9334488	9334792	*	7	0.017470344	-0.032551032	-0.020711958	TWSG1
chr14	105973846	105974580	*	6	0.017485814	0.018134073	0.004044643	NA
chr17	75318211	75319068	*	5	0.017485814	-0.021389832	-0.006742646	SEPTIN9
chr6	42846967	42847910	*	14	0.017492174	-0.015510619	-0.004673888	RPL7L1
chr6	139095001	139095535	*	5	0.017492707	0.013168295	0.002768892	CCDC28A;CCDC28A-AS1
chr11	120080780	120081089	*	3	0.017524834	-0.011749118	-0.005973976	OAF
chr5	157078082	157078881	*	6	0.017532081	0.018705158	0.010636499	SOX30
chr13	108520039	108520566	*	6	0.01753373	-0.022739501	-0.005545751	FAM155A
chr7	97978189	97978730	*	4	0.01753373	0.011917337	0.009343492	BAIAP2L1
chr1	25235737	25236445	*	5	0.01753406	0.027438739	0.009460198	RUNX3
chr4	141489799	141490428	*	11	0.017552687	-0.022318942	-0.007174007	UCP1
chr12	63544752	63545288	*	7	0.017562911	-0.018019331	-0.009632492	AVPRIA
chr1	118472455	118473064	*	7	0.017562911	0.024445515	0.001650884	GDAP2;WDR3
chr9	139565026	139565154	*	4	0.017562911	0.077078558	0.026867265	EGFL7;MIR126
chr16	70323425	70323915	*	11	0.017565018	0.018998532	0.000210156	AARS1;DDX19B
chr9	139222119	139222968	*	4	0.017584235	-0.025576965	-0.016630387	DKFZP434A062;GPSM1
chr1	151693199	151693503	*	4	0.017584852	-0.020680079	-0.008653909	CELF3;RIAD1
chr3	71180064	71180859	*	8	0.017597879	-0.025243793	-0.003848981	FOXP1
chr19	57741934	57742444	*	12	0.017602545	0.040156479	0.023228562	AURKC
chr11	107460942	107462721	*	15	0.017605429	0.027570624	-0.002674614	ELMOD1
chr17	42147463	42148292	*	14	0.017639446	-0.017628326	-0.006098875	G6PC3;LSM12
chr19	13049949	13050931	*	4	0.01764904	0.013240294	0.004200455	CALR
chr3	158526734	158527481	*	3	0.017649451	-0.031153534	-0.016262298	MFSD1
chr18	74844767	74845422	*	6	0.017668054	0.052602462	0.004255687	MBP
chr22	29976613	29977322	*	7	0.017695847	-0.010845002	-0.002449108	NIPSNAP1
chr4	90815958	90816310	*	3	0.017742718	-0.024335518	-0.016234938	MMRN1
chr20	61309080	61309743	*	4	0.01774277	-0.03134785	-0.019275108	NA
chr6	44191036	44191600	*	15	0.017770756	-0.0302223	-0.008236384	SLC29A1
chr13	47370918	47371987	*	14	0.017770756	-0.01323312	-0.005188019	ESD
chr5	140018682	140019269	*	10	0.017772391	0.028779392	0.002539135	TMCO6
chr10	483387	483555	*	3	0.017778432	-0.021023073	-0.015206421	DIP2C
chr9	71394802	71395167	*	6	0.01779383	-0.011553688	-0.000484875	FAM122A;PIPSK1B
chr5	178899789	178899850	*	3	0.017809749	0.030844676	0.019349239	NA
chr3	50192725	50193465	*	5	0.017819133	0.016588168	0.001704089	SEMA3F
chr4	77069145	77070069	*	10	0.01783348	0.019694653	0.002164286	NUP54
chr11	746771	747111	*	5	0.017840028	-0.007493793	-0.002849206	TALDO1
chr17	7486551	7487249	*	15	0.017847256	0.033402822	0.005875189	MPDU1
chr14	93034791	93035095	*	3	0.017850399	-0.02409529	-0.00144076	RIN3
chr2	207802453	207803339	*	4	0.017854338	0.019771825	0.006583908	CPO
chr1	68299388	68299854	*	7	0.017857488	0.041363477	0.016028062	GNG12;GNG12-AS1
chr15	32965273	32966463	*	5	0.017869019	-0.023439475	-0.004585734	SCG5
chr12	121905538	121905955	*	3	0.017869019	0.020108317	0.004577443	KDM2B
chr21	47333731	47334174	*	4	0.017899042	0.018942923	0.010475115	PCBP3

chr2	101618129	101619257	*	18	0.017899138	-0.022393115	0.000546501	RPL31
chr15	25491792	25492469	*	6	0.017899895	-0.024339552	-0.003292659	SNORD115-10;SNORD115-11;SNORD115-44
chr11	55736968	55737423	*	3	0.017948955	-0.024726708	-0.012476345	OR10AG1
chr5	159434503	159435433	*	4	0.017950098	-0.014936158	-0.006069213	TTC1
chr5	14325937	14326531	*	5	0.0179577	-0.027014315	-0.008624694	TRIO
chr17	42286849	42288203	*	6	0.017960025	-0.025504554	0.002184046	UBTF
chr1	186344058	186344890	*	11	0.017963748	0.006558264	-0.000396433	MIR548F1;ODR4;TPR
chr13	45564065	45564444	*	5	0.017963748	-0.014119142	-0.00616195	GPALP1;NUFIP1
chr5	126625742	126626092	*	4	0.017963748	-0.011893257	-0.003818342	MEGF10
chr1	247580074	247580310	*	3	0.017963748	-0.011673929	-0.005882867	NLRP3
chr6	28481660	28482191	*	4	0.01796893	-0.016919063	-0.006714411	GPX6
chr19	17970232	17971045	*	14	0.018001052	-0.006530033	-0.002774835	RPL18A;SNORA68
chr2	85581378	85581920	*	12	0.018008299	0.009131038	0.000745285	ELMOD3;RETSAT
chr15	40633124	40633416	*	7	0.018018707	-0.018355189	-0.006445242	CCDC9B
chr7	134854206	134855024	*	7	0.01802838	0.031493405	0.00962584	CYREN
chr2	219263149	219263515	*	4	0.018036704	-0.005661267	-0.00312489	CTDSP1;MIR26B
chr8	144242029	144242904	*	8	0.018058049	0.028915429	-0.00273884	LY6H
chr19	47968997	47969574	*	6	0.018063899	0.025940207	0.01628001	SLC8A2
chr8	143545789	143546524	*	4	0.018070376	-0.027831799	-0.014799656	ADGRB1
chr11	17099044	17099688	*	10	0.01811509	-0.008133086	-0.002612872	PIK3C2A;RPS13
chr5	72111910	72112008	*	5	0.018117465	0.01000012	0.000466212	TNPO1
chr13	100258165	100258641	*	3	0.018117465	-0.014930533	-0.007317534	CLYBL
chr12	131265728	131266253	*	3	0.018155343	0.024187098	0.015900557	NA
chr6	154677796	154678326	*	4	0.018170306	-0.019058015	-0.006560056	IPCEF1
chr22	45809244	45809952	*	14	0.018179026	-0.050377792	-0.006554153	RIBC2;SMC1B
chr1	167905644	167906565	*	14	0.018182207	-0.022254794	-0.00072028	DCAF6;MPC2
chr15	44969244	44969539	*	4	0.018191271	-0.021904301	-0.013259162	PATL2
chr14	101513572	101514051	*	4	0.018191348	0.018971144	0.010657421	MIR487A;MIR539;MIR655;MIR889
chr10	3282585	3282783	*	3	0.018194186	0.042427159	0.041105344	NA
chr10	49514029	49514546	*	9	0.018225888	-0.028071	-0.00395198	MAPK8
chr19	37568732	37569273	*	8	0.018238788	0.005794685	-0.001068179	ZNF420
chr17	27506970	27508027	*	12	0.018261471	0.014840225	0.003544726	MYO18A
chr15	93588328	93588851	*	3	0.01828131	0.019301097	0.012093028	RGMA
chr19	10668268	10668565	*	4	0.018293618	0.025910973	0.014096203	KRI1
chr17	46709858	46710112	*	4	0.018299231	0.026733942	0.01358634	MIR196A1
chr19	46105314	46106056	*	9	0.018310884	-0.038073998	-0.003920695	GPR4;OPA3
chr7	135346802	135347371	*	10	0.01831216	0.008259255	0.00043898	STMP1
chr5	172661803	172662463	*	8	0.018314647	-0.020279373	-0.004234509	NKX2-5
chr14	68162436	68163086	*	9	0.018315587	-0.015267949	-0.006403505	RDH11
chr1	3352257	3352986	*	6	0.018318273	0.023997365	0.003134458	PRDM16
chr11	85469037	85470458	*	7	0.018327106	-0.024005596	-0.009379114	SYTL2
chr11	124709223	124709925	*	6	0.018327106	-0.012588612	-0.001721694	NA
chr1	24828096	24828968	*	9	0.018341652	-0.01471887	-0.001928776	RCAN3;RCAN3AS
chr18	43684692	43685360	*	8	0.018371617	0.023011904	0.006261931	ATP5F1A;HAUS1
chr11	2292751	2293665	*	21	0.018397182	-0.029224987	0.006426938	ASCL2
chr12	132312106	132312875	*	9	0.018397182	-0.020014227	-0.004569365	MMP17
chr4	4867164	4867979	*	6	0.018397182	-0.027378867	-0.005196785	NA
chr1	16533422	16533907	*	5	0.018397182	-0.011502003	-0.004609876	ARHGEF19
chr5	56718310	56718431	*	3	0.018397182	0.015191855	-0.003048562	NA
chr2	178013511	178013807	*	3	0.018404061	-0.039487952	-0.014305909	NA
chr6	2916614	2917294	*	3	0.018405801	0.033161089	0.011261725	NA
chr10	71562314	71562858	*	4	0.018412417	0.010012561	0.003433891	COL13A1
chr8	494913	496128	*	8	0.018413901	-0.026377795	-0.000877672	TDRP
chr1	154600131	154600788	*	9	0.018415494	0.015632681	0.003706114	ADAR
chr14	105181035	105181902	*	6	0.018437635	0.019250939	0.006062707	INF2
chr16	88797119	88797395	*	3	0.018445716	-0.013562964	-0.007302537	PIEZO1
chr15	67068074	67068378	*	3	0.018446775	0.018072919	0.010147396	SMAD6
chr14	56045827	56046098	*	4	0.018453144	-0.035106922	-0.023657188	KTN1;KTN1-AS1
chr17	1028394	1030700	*	9	0.018457625	0.02181186	0.01193168	ABR
chr6	28641651	28642394	*	11	0.01845801	-0.025523405	-0.008004312	NA
chr12	49657537	49658425	*	5	0.01848741	-0.018910069	-0.00215486	TUBA1C
chr17	746502	746641	*	3	0.01848741	-0.032685744	-0.02570277	NXN
chr19	5838731	5838999	*	7	0.018487464	-0.021411411	-0.01144221	FUT6
chr2	131113015	131113730	*	5	0.018493918	-0.008546816	0.001116627	PTPN18
chr14	57263369	57264639	*	7	0.018528793	-0.020299915	-0.010033053	NA
chr1	9687064	9687471	*	4	0.018555905	0.007602746	-0.001390112	NA

chr22	37257124	37257594	*	3	0.018576396	0.018086884	0.01301716	NCF4
chr19	11909183	11910049	*	8	0.018579646	-0.010877961	-0.006526617	ZNF491
chr1	62660624	62660861	*	4	0.018583069	0.034600267	0.014282321	LITD1
chr14	57046206	57046857	*	9	0.018643335	-0.008527562	-0.002294002	TMEM260
chr11	124823283	124824151	*	13	0.018667037	0.034506519	0.004541203	CCDC15
chr15	73734744	73735694	*	14	0.018680517	0.036714619	0.008652229	REC114
chr22	47370132	47370307	*	3	0.018687238	0.021387229	0.015457873	TBC1D22A
chr6	86387318	86388072	*	6	0.018688845	-0.051306562	-0.013005225	SNHG5;SNORD50A;SNORD50B
chr17	3539439	3540440	*	18	0.018690066	0.012570791	0.000123372	CTNS;SHPK
chr16	89408076	89408567	*	4	0.018698258	0.016608334	0.010433756	ANKRD11
chr2	85956392	85957232	*	3	0.018710888	-0.014491553	-0.008831565	NA
chr12	58003378	58004248	*	8	0.0187119	0.018255546	0.003108438	ARHGFE25;DTX3
chr19	35605465	35605867	*	4	0.018724474	-0.018084851	-0.01096561	FXD3
chr16	1420317	1420537	*	3	0.018742964	0.024061021	0.017596268	UNKL
chr13	110438256	110438937	*	7	0.018766271	-0.028219043	-0.012984824	IRS2
chr6	28870818	28871376	*	3	0.018772601	0.019304977	0.014981184	TRIM27
chr19	48917816	48918712	*	4	0.018774603	0.02034029	0.001176329	GRIN2D
chr20	12225088	12225421	*	5	0.018818314	0.014789948	0.009492125	NA
chr15	45003560	45004577	*	11	0.018831132	-0.011963863	-0.001326619	B2M;PATL2
chr16	3629620	3630518	*	4	0.018831132	0.031715863	0.007440333	NLRC3
chr1	41350014	41350406	*	3	0.018831132	0.02991423	0.018782291	NA
chr15	83316908	83317632	*	10	0.018844245	0.030067072	0.010610198	CPEB1;CPEB1-AS1
chr2	53994559	53995389	*	11	0.018845039	0.01365091	0.002544032	ASB3;CHAC2
chr1	39284267	39284609	*	4	0.018845039	0.019346523	0.00664152	NA
chr13	50569769	50570250	*	4	0.018853576	-0.016196007	-0.009859161	DLEU2;TRIM13
chr14	104645554	104646441	*	6	0.018857	0.020308419	0.013643876	KIF26A
chr6	50683593	50683782	*	4	0.018875399	-0.01663975	-0.013335497	TFAP2D
chr12	114837572	114838359	*	5	0.018878985	0.020341052	0.002552369	TBX5
chr22	30987482	30988090	*	9	0.018883593	-0.009904914	-0.00111616	PES1
chr15	69687028	69687372	*	3	0.018883593	-0.006681902	-0.006351084	PAQR5
chr5	149864599	149865429	*	3	0.018904766	0.027080098	0.014744109	NA
chr22	31158835	31159371	*	4	0.018908586	0.026544852	0.010670688	OSBP2
chr1	227746882	227747468	*	3	0.018916628	0.03183157	0.021092763	ZNF678
chr1	201617042	201617355	*	4	0.018959853	0.045409489	0.020483596	NAV1
chr12	54331892	54332222	*	5	0.018972664	-0.022347657	-0.008680415	HOXC13;HOXC13-AS
chr1	2936277	2937278	*	6	0.018978728	0.015868961	0.006858361	ACTRT2
chr4	182717776	182717992	*	3	0.018990589	-0.027983776	-0.01135156	NA
chr22	36011405	36012221	*	5	0.019010226	0.022207841	-0.00238176	MB
chr21	46895183	46895659	*	3	0.019013089	0.018929169	0.013792537	COL18A1
chr4	160699894	160700056	*	3	0.019062917	-0.012524292	-0.008322909	NA
chr20	57556052	57556415	*	5	0.019096026	-0.030062269	-0.015942028	NELFCD
chr11	68450618	68451280	*	3	0.019099042	0.024650615	0.013113029	GAL
chr5	133967994	133968721	*	10	0.019103417	-0.020283571	-0.001466476	SAR1B
chr6	34112244	34114384	*	14	0.019110843	0.023672887	0.006354086	GRM4
chr1	230850821	230851153	*	3	0.019115753	-0.018717456	-0.004069258	AGT
chr13	114005848	114006027	*	5	0.019120763	-0.022700884	-0.006503834	GRTP1
chr11	64127791	64128339	*	3	0.019143524	-0.014980397	-0.006197829	RPS6KA4
chr12	83080208	83080830	*	6	0.019152157	-0.005479191	-0.001020409	TMTC2
chr4	108910565	108911521	*	12	0.019168186	-0.010847322	-0.001368338	HADH
chr2	231712722	231712981	*	4	0.019188117	0.032604284	0.007389663	NA
chr10	60094109	60094570	*	5	0.019194509	0.023983487	0.009779717	UBE2D1
chr8	142238452	142239055	*	8	0.019233596	-0.019662935	0.003369726	SLC45A4
chr6	49430596	49431435	*	15	0.019236081	0.014942901	0.002518525	CENPO;MMUT
chr20	58660759	58661301	*	3	0.019243304	0.030136344	0.015323037	NA
chr20	37075704	37076176	*	3	0.019257014	0.017781756	0.00769438	SNHG11;SNORA71E
chr15	68346336	68346924	*	11	0.019278062	0.006871305	-0.000596404	PIAS1
chr6	40345751	40346299	*	5	0.019308891	0.039603901	0.017396618	TDRG1
chr6	32056058	32056735	*	10	0.019319408	0.01814622	0.003481858	TNXB
chr5	52095495	52095961	*	6	0.019324709	0.009313601	0.004391185	ITGAI;PELO
chr4	7282819	7283433	*	5	0.019329087	-0.015679343	0.002148375	SORCS2
chr22	20004356	20004881	*	9	0.019342766	-0.016421655	-0.004107403	ARVCF;TANGO2
chr16	85854840	85855299	*	4	0.019363379	-0.035906856	-0.015104477	NA
chr1	21929913	21930336	*	6	0.019380891	0.018778044	0.010099387	RAP1GAP
chr5	114514636	114515104	*	4	0.019380891	0.031940357	0.017625546	TRIM36
chr9	3526190	3526944	*	7	0.019387879	0.007018373	-0.001614871	RFX3
chr10	124133582	124134343	*	11	0.0193979	-0.022475452	-0.004824347	PLEKHA1

chr5	65891878	65892575	*	10	0.0193979	-0.030781413	-0.002835335	MAST4
chr1	216244716	216245074	*	3	0.019412619	0.025448987	-0.001149739	USH2A
chr17	908690	909300	*	3	0.019429985	0.026234352	0.000663521	ABR
chr13	112908450	112908629	*	3	0.019438032	-0.041104682	-0.012398541	NA
chr16	12010179	12010751	*	7	0.019442005	0.02913588	0.011088394	GSPT1
chr5	151138064	151138797	*	13	0.019453923	0.008259714	0.001589713	ATOX1
chr7	155250210	155251040	*	6	0.019479155	-0.010843202	-0.003728023	EN2
chr2	11885266	11885560	*	3	0.019480229	-0.027889515	-0.017287791	LPIN1
chr6	36808207	36808894	*	4	0.0194932	0.014374095	0.00781272	CPNE5
chr22	24828642	24829053	*	4	0.019504291	0.031182915	0.001574401	ADORA2A:ADORA2A-AS1:SPECC1L
chr1	161015733	161016165	*	9	0.019525207	-0.010222303	-0.004313962	USF1
chr6	32634276	32634362	*	4	0.019587166	-0.032026099	-0.016432133	HLA-DQB1
chr10	105127632	105128183	*	7	0.019595862	0.022655676	0.004824201	TAF5
chr5	57754512	57756187	*	16	0.019596975	-0.020245136	-0.00625867	PLK2
chr13	99737364	99737785	*	4	0.019596975	0.037029623	0.014524897	DOCK9
chr13	38172803	38173002	*	3	0.019621072	-0.031299603	-0.015998375	POSTN
chr17	77708928	77709291	*	4	0.019622182	0.020649883	0.007176177	ENPP7
chr12	133018862	133019135	*	3	0.019622182	0.013554854	0.012625436	NA
chr4	71337658	71337873	*	4	0.019649803	-0.027700346	-0.02320101	MUC7
chr3	45635690	45636386	*	10	0.019661859	0.015444614	0.004183083	LIMD1
chr11	126081116	126082534	*	17	0.019681826	-0.0149171	-0.001683272	FAM118B:RPUSD4
chr17	3796782	3797333	*	3	0.019689998	0.011931396	0.006998288	CAMKK1
chr2	16908218	16908766	*	3	0.019691758	0.020025771	0.006815213	NA
chr17	38599056	38599763	*	9	0.01971263	0.025999361	0.001122714	IGFBP4
chr20	2797023	2797721	*	4	0.019724978	0.024439525	0.011671566	TMEM239
chr1	59280290	59280952	*	5	0.019727626	0.025052862	0.014112217	LINC01135
chr2	30371369	30371990	*	3	0.019732839	0.034018548	0.005522425	YPEL5
chr19	2702863	2703115	*	9	0.019733487	-0.025315116	-0.005922626	GNMG7
chr3	48263670	48264021	*	4	0.019752235	0.011993528	0.007928263	CAMP
chr2	23607015	23607254	*	3	0.019755876	0.025882658	0.015402585	KLHL29
chr2	101033546	101033799	*	7	0.019757883	0.005751915	0.000820763	CHST10
chr6	42981650	42982891	*	11	0.019764712	0.015410981	0.00111769	KLHD3C:MEAI
chr11	107992005	107992418	*	11	0.019773977	0.022765058	0.00176581	ACAT1
chr11	42275352	42275722	*	3	0.019779839	-0.017465329	-0.009751329	LINC02740
chr3	107393225	107393456	*	3	0.019779839	-0.017851266	-0.00486201	BBX
chr7	130020011	130020328	*	4	0.019787661	0.018917043	0.014238865	CPA1
chr2	242713790	242714091	*	3	0.019787661	0.029463777	0.021938722	GAL3ST2
chr12	54582519	54583403	*	13	0.019799475	-0.026894601	-0.008896417	SMUG1
chr6	166128575	166128682	*	3	0.01981472	0.017076464	0.007521531	NA
chr11	67372071	67373114	*	7	0.019829253	0.019961503	0.008143862	NDUFV1
chr5	41510116	41511150	*	11	0.01982942	0.041109401	-0.001509573	PLCXD3
chr5	496081	496476	*	4	0.019842442	-0.037029198	-0.028423259	SLC9A3
chr20	1924201	1924888	*	3	0.019860081	-0.02303479	-0.000847532	NA
chr6	147234727	147235737	*	5	0.01987674	-0.019503254	-0.010873229	STXBP5-AS1
chr16	88518659	88519557	*	6	0.019897418	-0.027343077	-0.005864082	ZFPM1
chr6	119471177	119471418	*	3	0.019902635	-0.014340025	-0.009647411	FAM184A
chr11	57103544	57103951	*	6	0.019909273	-0.028992821	-0.006213292	P2RX3:SSRP1
chr8	18067331	18067770	*	6	0.019921379	-0.01825331	-0.004157709	NAT1
chr16	88679600	88679919	*	4	0.019922911	-0.034559082	-0.011625713	ZC3H18
chr17	46683409	46684004	*	4	0.019934883	0.026229549	0.014155454	HOXB-AS3:HOXB6
chr5	169724656	169725100	*	6	0.019957618	-0.017735163	-0.006532635	LCP2
chr2	95718982	95720106	*	6	0.019969494	-0.019000589	-0.003517435	MAL
chr16	30041884	30042541	*	5	0.019986273	0.011349135	-0.002778293	BOLA2:TLCD3B
chr19	48833062	48833729	*	5	0.019996649	-0.015067633	-0.004544963	EMP3
chr1	44441199	44441770	*	3	0.019996649	-0.004736837	-0.003251694	ATP6V0B:B4GALT2
chr17	27332559	27333125	*	7	0.020040843	-0.026690054	-0.003541301	SEZ6
chr16	88513285	88513513	*	3	0.020048218	0.048036869	0.024109338	NA
chr11	68437843	68438384	*	4	0.020052896	0.017889097	0.008001838	NA
chr13	25182575	25183053	*	3	0.020052896	0.014572777	0.008030691	NA
chr7	32111062	32111453	*	6	0.020053063	-0.014857312	-0.003404118	PDE1C
chr6	170462469	170462947	*	3	0.02006462	-0.018183202	-0.013730026	NA
chr4	679526	681509	*	12	0.020089692	-0.021908283	0.002601495	SLC49A3
chr7	25900167	25900355	*	3	0.020120454	-0.014833831	-0.010349077	NA
chr6	170531180	170531435	*	4	0.020126114	0.02210752	-0.002226027	NA
chr1	51983496	51983979	*	5	0.020140994	-0.021854941	-0.007130344	EPS15
chr11	61722539	61722937	*	4	0.020140994	-0.011690539	-0.006501567	BEST1

chr3	42002230	42004036	*	15	0.020143296	-0.020911251	-0.003722231	ULK4
chr1	226855568	226856447	*	4	0.020148096	0.02997479	0.00784226	ITPKB
chr22	38840560	38841396	*	4	0.020158284	0.028055671	0.016052464	KCNJ4
chr18	904243	904523	*	5	0.020162406	-0.025170657	-0.008588492	ADCYAP1
chr11	119203814	119204876	*	4	0.020163681	-0.019134832	-0.007508908	RNF26
chr5	150004235	150004508	*	3	0.020166925	-0.034075116	-0.015777318	SYNPO
chr17	67410253	67410995	*	10	0.020176133	-0.051832866	-0.009857924	MAP2K6
chr15	75248086	75248768	*	3	0.020176715	0.038748671	0.015830289	RPP25
chr16	55850985	55851398	*	3	0.020185765	-0.030046892	-0.002205686	CES1
chr12	49628356	49628520	*	3	0.020193329	-0.019437965	-0.013059235	TUBA1C
chr5	43019773	43020627	*	9	0.020193842	-0.020276447	-0.004987362	LOC648987
chr12	54424964	54425634	*	4	0.020212392	0.028352073	0.008188151	HOXC4;HOXC5;MIR615
chr14	66974032	66975053	*	12	0.020213942	-0.021144217	-0.007323522	GPHN
chr16	30102457	30102919	*	6	0.02022278	0.02637984	0.011555998	BOLA2;TBX6
chr5	122180440	122181324	*	11	0.020227739	-0.009099518	-0.001266708	SNX24
chr2	145248570	145248942	*	3	0.020241585	-0.022815764	-0.002396926	ZEB2
chr11	45793222	45793643	*	3	0.020244963	-0.028034922	-0.013883784	LINC02716
chr6	167356786	167358034	*	3	0.020272301	-0.028320423	-0.014592085	RNASET2
chr1	173793075	173795086	*	21	0.020277307	0.023450956	-0.000515284	CENPL;DARS2
chr12	32908175	32908941	*	10	0.02028299	-0.00910854	0.000267997	YARS2
chr11	117186472	117187284	*	11	0.02029762	-0.014881576	-0.00272914	BACE1
chr1	101004934	101005509	*	5	0.02029762	0.017171457	0.001585851	GPR88
chr17	14201321	14201938	*	4	0.02029762	0.034921629	0.027269393	HS3ST3B1
chr17	46459980	46460509	*	3	0.020302414	-0.019665215	-0.001089838	SKAP1
chr1	24195347	24195659	*	4	0.020337307	-0.040157551	-0.026872658	FUCA1
chr6	30654410	30654845	*	16	0.020338755	0.011739183	-0.001151283	PPP1R18
chr5	1800542	1802207	*	12	0.020360629	0.020712881	-0.000223567	MRPL36;NDUFS6
chr17	8213195	8214081	*	7	0.020397189	0.025449468	0.014658062	ARHGEF15
chr6	32861863	32862547	*	23	0.020431251	-0.0163915	-0.001902844	LOC100294145
chr6	170123723	170124346	*	3	0.020449409	-0.021811235	-0.016369757	PHF10
chr1	1096717	1097270	*	6	0.020465331	0.021001763	0.010339246	NA
chr17	38657842	38658096	*	7	0.020470535	0.030851913	0.007514005	TNS4
chr4	37245254	37246054	*	6	0.020477169	-0.020738656	-0.009739672	MIR4801;NWD2
chr5	160278962	160279389	*	3	0.020485035	0.022185149	0.003316952	ATP10B
chr8	41386012	41386864	*	7	0.02050861	0.013386064	0.005336212	GINS4
chr15	45740221	45741008	*	9	0.02050963	-0.015930315	-0.005453649	NA
chr2	8714248	8714417	*	3	0.020579941	0.033607942	0.01485531	NA
chr8	118532775	118533254	*	7	0.020597656	-0.007003576	-0.003492362	MED30
chr3	55515541	55516596	*	7	0.020613909	-0.011065034	-0.004278285	WNT5A
chr22	46440394	46441127	*	8	0.020634793	-0.019603641	-0.008736668	LINC00899
chr7	100728527	100729412	*	9	0.020654257	-0.013441044	-0.005646315	TRIM56
chr14	105658949	105659807	*	3	0.020690817	0.028015185	0.013839387	NA
chr19	15947148	15947555	*	3	0.020696992	0.012740479	0.006089747	NA
chr5	140800761	140801482	*	5	0.020702244	-0.025701037	-0.006527491	DHGA5;PCDHGA6;PCDHGA7;PCDHGA8;PCDHGA9;PCDHGB1;PCDHGB2;PCDHGB3;PCDHGB4;PCDHGB5;PCDHGB6;PCDHGB7;PCDHGB8P
chr12	6930613	6931058	*	3	0.020702244	-0.005377271	-0.00440628	GPR162
chr10	119302540	119303225	*	5	0.020706735	0.016215339	-0.001174255	EMX2;EMX2OS
chr1	40505264	40506212	*	11	0.020716185	-0.013400766	-0.002853391	CAP1
chr3	36985516	36986154	*	4	0.020729869	0.004918618	0.000387128	TRANK1
chr4	15657657	15657883	*	3	0.020738227	0.034828139	0.017155798	FBXL5
chr22	45147515	45148385	*	7	0.02075174	-0.02275869	-0.008014638	ARHGAP8;PRR5-ARHGAP8
chr3	117716071	117717026	*	8	0.020761995	0.021007511	0.004119014	NA
chr17	38224456	38225121	*	5	0.020770982	0.027890139	0.006130452	THRA
chr7	32338950	32339497	*	10	0.020776922	-0.02486298	-0.013867672	PDE1C
chr7	11012871	11013816	*	14	0.02078819	-0.025865603	-0.005120602	PHF14
chr7	6476003	6476274	*	3	0.020810208	-0.0176018	-0.01504488	DAGLB
chr6	33395290	33396029	*	8	0.020812545	-0.025656454	-0.009831695	SYNGAP1
chr17	70710154	70711001	*	5	0.020813261	-0.023557451	0.000966808	SLC39A11
chr1	150121441	150122023	*	7	0.020831199	-0.009216209	-0.001878212	PLEKHO1
chr19	8934543	8934852	*	5	0.020831199	0.01118514	-0.000808564	ZNF558
chr12	132896338	132896939	*	8	0.020858757	0.028145437	0.009230143	GALNT9
chr21	43809237	43809848	*	8	0.020872305	-0.015904543	-0.009568003	TMPPS3
chr5	68665600	68666075	*	9	0.020887339	-0.010571767	-0.001192711	RAD17;TAF9
chr12	57630834	57631687	*	5	0.020919062	-0.014290816	0.004274257	NDUFA4L2
chr20	61903495	61904700	*	13	0.02093291	-0.020160804	-0.003496723	ARFGAP1
chr9	139922545	139923402	*	6	0.020952405	0.005537312	3.15E-05	ABCA2;C9orf139
chr3	186647950	186648392	*	7	0.0209557	-0.018379405	-0.000986067	ST6GAL1

chr14	73137874	73138006	*	3	0.020966872	-0.044421494	-0.017274995	DPF3
chr14	105318279	105318494	*	3	0.020994779	-0.029639075	-0.02158895	NA
chr11	116643957	116644448	*	5	0.021010656	-0.009060667	-0.002692063	BUD13
chr7	15726166	15727441	*	10	0.021018111	-0.0187944	-0.009990715	MEOX2
chr7	158072687	158073079	*	3	0.021059779	0.020023348	0.015085934	PTPRN2
chr11	34535281	34536181	*	10	0.021065688	0.023844002	0.00316597	ELF5
chr10	63212815	63213510	*	9	0.021069664	-0.013535644	-0.007381664	TMEM26
chr13	46679079	46679242	*	3	0.0210749	-0.016443378	-0.0131667	CPB2
chr7	51539514	51539678	*	3	0.021094037	-0.036587316	-0.035403618	NA
chr2	27865068	27865335	*	4	0.021125372	0.013811303	0.001231444	GPN1
chr7	100611492	100612155	*	5	0.021139078	-0.047893936	-0.01694595	MUC12
chr19	56615895	56616780	*	6	0.021159513	0.016005185	-0.001599767	ZNF787
chr17	78753756	78754372	*	6	0.021172786	0.036623032	0.006414228	RPTOR
chr5	39074123	39075257	*	13	0.02119075	-0.010453991	-0.000724951	RICTOR
chr6	150311305	150311869	*	5	0.021219213	0.016762626	0.004313529	NA
chr10	33294358	33294889	*	5	0.021255357	-0.031732622	-0.011561118	NA
chr15	93606698	93607465	*	3	0.021259624	0.019777892	0.012215928	RGMA
chr12	85305677	85306323	*	4	0.021266099	-0.019037103	-0.005482774	SLC6A15
chr1	159868242	159868562	*	3	0.021272578	0.024573981	0.012488334	CFAP45
chr12	132943983	132944284	*	3	0.021284115	-0.040297571	-0.014182111	NA
chr12	102036140	102036563	*	5	0.02130042	0.024357746	0.011775075	MYBPC1
chr1	116710227	116710606	*	4	0.021315984	0.02641652	0.017810522	NA
chr8	1321333	1321883	*	5	0.02131899	-0.067702901	-0.041799678	NA
chr16	1131266	1131634	*	5	0.021321302	-0.042073623	-0.01040951	SSTR5;SSTR5-AS1
chr2	219773416	219774183	*	7	0.021348421	-0.02736604	-0.007124997	NA
chr13	29105493	29105629	*	3	0.021350487	-0.012937842	-0.008307113	NA
chr17	74965245	74965708	*	5	0.021358222	-0.008408359	-0.003597257	NA
chr19	24269525	24269919	*	4	0.021358688	0.02693599	0.004253621	ZNF254
chr8	102149430	102149991	*	5	0.021373193	-0.008443822	-0.004918613	NA
chr15	100016836	100017287	*	3	0.021390227	-0.015580746	-0.010459561	NA
chr5	71402641	71403502	*	9	0.021427761	0.020588795	-0.004314542	MAP1B
chr4	160024219	160024674	*	4	0.021428579	-0.012232691	-0.002620665	C4orf45
chr2	7057945	7058432	*	3	0.021436657	-0.006370356	0.000766992	GRASLND;RNF144A
chr7	98476174	98476815	*	5	0.021443321	-0.022452638	-0.009292206	MIR3609;TRRAP
chr6	99872940	99873747	*	11	0.021449865	-0.013758422	-0.001835401	PNISR
chr16	72993161	72993541	*	3	0.02145211	0.030274301	0.014266763	ZFH3
chr7	27289195	27289829	*	4	0.021483865	-0.026552019	-0.009916222	NA
chr5	140345680	140346921	*	12	0.021487647	0.019752464	-0.004998546	2:PCDHA13;PCDHA2;PCDHA3;PCDHA4;PCDHA5;PCDHA6;PCDHA7;PCDHA8;PCDHA9;PCDHAC1;PCDHAC2
chr17	9862147	9862900	*	10	0.021487779	0.016505082	-0.00436741	GAS7
chr13	37247048	37247537	*	4	0.021487779	0.018177162	0.007776725	SERTM1
chr11	68923088	68923365	*	4	0.021490685	0.025175422	0.014468943	NA
chr3	184209995	184210194	*	3	0.021495585	-0.028384796	-0.013058773	NA
chr2	66660038	66661280	*	7	0.021510388	-0.009142912	-0.004496101	MEIS1;MEIS1-AS3
chr7	135194601	135195508	*	10	0.021518391	0.011212707	0.000766017	CNOT4
chr12	132268896	132270218	*	7	0.021557156	0.02426166	0.005683445	SFSWAP
chr3	52857612	52857931	*	4	0.021572078	0.016210397	0.003758798	ITIH4
chr20	60540388	60541082	*	5	0.021588547	-0.018441748	-0.013260903	NA
chr19	17326059	17326726	*	11	0.02159573	0.014935202	0.001124458	USE1
chr3	35706038	35706161	*	3	0.021607664	-0.030641198	-0.025740562	ARPP21
chr14	94547301	94547988	*	16	0.021623426	0.016717764	0.000881931	DDX24;IFI27L1
chr17	73083426	73084978	*	16	0.021623426	0.080662268	0.003726549	SLC16A5
chr11	71791545	71792206	*	12	0.021623426	-0.005424045	-0.001812236	LRTOMT;NUMA1
chr7	124430753	124431308	*	6	0.021623426	-0.033717812	-0.013748044	C7orf77
chr12	133303923	133304233	*	3	0.021632582	0.024837193	0.012499934	ANKLE2
chr17	48784765	48785602	*	8	0.021634164	-0.01015692	-0.003219696	ANKRD40
chr19	35644570	35644996	*	4	0.021636636	0.020462345	-0.001259402	FXYD5;FXYD7
chr4	69047717	69048001	*	3	0.021652847	0.024007702	0.020377061	FTPLP10
chr16	57770390	57771195	*	6	0.021664754	0.01948435	-0.001864598	KATNB1
chr11	134025929	134026755	*	4	0.021682419	0.04479702	0.018041959	NCAPD3
chr16	88961784	88961936	*	3	0.021688961	0.021224766	0.019330356	CBFA2T3
chr17	6916889	6917600	*	6	0.021696254	0.027489126	0.008382731	ALOX12-AS1;RNASEK-C17orf49
chr6	5132887	5133630	*	7	0.02171693	0.04031265	0.006195151	LYRM4
chr17	56833855	56834361	*	3	0.021723496	-0.007058905	-0.004486493	PPM1E
chr14	36004683	36005164	*	3	0.021742176	-0.016477537	-0.005343971	INSM2
chr21	27750452	27750811	*	3	0.021745165	0.013691472	0.004486192	NA
chr14	37903900	37904126	*	3	0.021771268	0.021591423	-0.00277171	MIPOL1

chr8	127600783	127601070	*	3	0.021776906	0.022949784	0.011000156	NA
chr16	85589349	85590266	*	6	0.02179297	-0.005832076	-0.00174244	NA
chr16	50744993	50745102	*	3	0.021826991	-0.014884594	-0.001529495	NOD2
chr11	1095156	1095607	*	3	0.021881211	0.025158889	0.00612771	MUC2
chr6	30156892	30157507	*	4	0.021889219	-0.024669804	-0.001634181	TRIM26
chr17	79859809	79859999	*	8	0.02188951	0.014391884	0.007084686	NPB
chr18	57069690	57070086	*	3	0.021900825	-0.022806604	-0.013703521	NA
chr9	4679684	4679986	*	3	0.021911977	-0.008433513	-0.000407954	CDC37L1
chr13	45009596	45010051	*	4	0.021920793	-0.01673995	-0.00552093	TSC22D1
chr21	37852334	37852979	*	6	0.021932015	0.0178167	0.001529102	CLDN14
chr12	117100401	117100900	*	3	0.021953141	-0.02036536	-0.013838811	NA
chr11	77790964	77791508	*	8	0.021957975	0.036477689	0.006772189	NDUFC2:NDUFC2-KCTD14
chr16	1742021	1742458	*	3	0.021962893	0.015846274	0.005959791	JPT2
chr17	80048811	80049347	*	5	0.02198753	0.016259783	0.007154832	FASN
chr2	103334922	103335429	*	3	0.02199008	0.013633112	0.007736434	MFSD9
chr14	51562057	51562890	*	13	0.02199864	-0.008173006	-0.003562701	TRIM9
chr17	3474461	3474950	*	7	0.02199864	0.024220723	0.01511187	TRPV1
chr16	83964775	83965208	*	4	0.0220039	0.013505045	0.004617553	NA
chr2	68289972	68290812	*	8	0.022023722	-0.03384618	-0.014149236	C1D
chr2	241644166	241644240	*	3	0.022031377	-0.022127169	-0.015657463	NA
chr5	14108303	14108781	*	4	0.022044072	-0.025163078	-0.016688455	NA
chr3	79816794	79817592	*	12	0.022065778	0.024428926	-0.001775106	ROBO1
chr4	186049687	186050047	*	3	0.022065778	0.00651549	0.00180989	NA
chr20	50700982	50701649	*	4	0.022079847	0.020248318	0.012169627	ZFP64
chr19	1175076	1175444	*	3	0.022104392	0.021499479	0.015220969	SBNO2
chr17	26732120	26732836	*	6	0.022104664	0.018232145	0.007997092	SLC46A1
chr1	40942625	40942841	*	5	0.022112714	0.010565534	0.001082359	ZFP69
chr11	8703871	8704637	*	12	0.022119435	0.010008818	-0.00096365	RPL27A:SNORA3A:SNORA3B
chr1	76539604	76540438	*	10	0.022133186	-0.007431766	-0.002344207	ST6GALNAC3
chr6	31760345	31761076	*	11	0.022135017	-0.032331311	-0.010277671	VARS1
chr16	84538885	84539110	*	3	0.022135017	0.040707999	0.02991394	MEAK7
chr9	108006611	108006799	*	6	0.022154667	-0.035614739	-0.012112682	SLC44A1
chr16	85496172	85496275	*	3	0.022164239	-0.043633297	-0.021684644	NA
chr11	1781505	1781710	*	5	0.022166665	-0.012636692	-0.008639856	CTSD:MOB2
chr17	7210097	7210806	*	13	0.022169981	0.018328834	-0.0002927	EIF5A
chr14	61655040	61655919	*	5	0.022177172	-0.041511802	-0.019721183	PRKCH
chr5	60139708	60140432	*	6	0.022186598	-0.012879054	-0.001735869	ELOVL7
chr11	63949188	63949212	*	3	0.022191774	-0.015930068	-0.013294025	STIP1
chr5	40798287	40798812	*	13	0.022201437	-0.014251732	4.21E-05	PRKAA1
chr1	172501480	172502226	*	9	0.022219632	-0.030724032	-0.004072559	SUCO
chr12	125197501	125197730	*	3	0.022238391	-0.022602634	-0.008876519	NA
chr18	52989025	52989604	*	9	0.022255369	-0.014244651	-0.003717384	TCF4
chr20	3730680	3731334	*	4	0.022276049	0.026948454	0.024534794	HSPA12B
chr2	111556206	111556607	*	4	0.022279111	0.027971995	0.006957909	ACOXL
chr20	44992995	44993770	*	9	0.022345968	-0.010185597	-0.001770407	SLC35C2
chr18	42259977	42260794	*	9	0.022345968	0.016105797	0.000509894	SETBP1
chr1	67390377	67391144	*	14	0.022357711	-0.015955859	-0.003437989	DNAI4:MIER1
chr17	73257138	73258208	*	14	0.022381874	-0.007138046	-0.002126012	GGA3:MRPS7
chr6	112318395	112318507	*	3	0.022381874	-0.02275625	-0.012971936	NA
chr8	145728138	145728630	*	11	0.022388642	0.027257457	0.007802368	GPT
chr1	1244356	1245708	*	10	0.022388642	0.017984997	0.007023102	ACAP3:PUSL1
chr3	184529753	184530595	*	12	0.022411931	0.026159119	0.000829558	VPS8
chr2	7016969	7018153	*	7	0.022500105	0.028991647	-0.002113306	RSAD2
chr21	44830846	44831151	*	5	0.022506699	0.02701348	0.015456757	NA
chr10	48391701	48392199	*	3	0.022513872	0.015515943	0.011403085	RBP3
chr1	211688462	211689136	*	6	0.022516694	0.006804371	0.001117305	NA
chr1	34100737	34101256	*	4	0.022531993	0.020231582	0.008424213	CSMD2
chr1	39491882	39492570	*	9	0.022534009	-0.017217054	-0.004428669	NDUFS5
chr16	46962962	46963261	*	3	0.022534223	-0.019153442	-0.001778291	GPT2
chr22	50314650	50315243	*	6	0.022548203	0.0231822	0.006074406	ALG12:CRELD2
chr12	720995	721502	*	4	0.022556513	-0.032366459	-0.013282766	NINJ2
chr10	4891654	4892269	*	3	0.022561201	-0.017848523	-0.010901172	NA
chr8	29172607	29172998	*	4	0.022566198	-0.033780121	-0.018957359	NA
chr3	46924739	46924956	*	4	0.022573966	0.005719336	0.003130877	PTH1R
chr9	6924962	6925355	*	3	0.022587023	0.020623682	0.001275179	KDM4C
chr12	49488082	49488898	*	9	0.022605824	-0.023124575	-0.007539401	DHH

chr6	3625139	3625684	*	3	0.022640217	0.015704763	0.003350119	NA
chr13	53029355	53030145	*	10	0.022665373	0.007894052	-0.000235393	CKAP2;VPS36
chr4	519009	519713	*	4	0.022665373	-0.011315963	-0.000555796	PIGG
chr7	83823911	83824481	*	8	0.022667664	-0.014065672	-0.004600635	SEMA3A
chr6	30525976	30526487	*	3	0.022675629	-0.018261797	-0.013915526	GNLI;PRR3
chr13	113701892	113702436	*	4	0.022700831	0.023907592	0.010686664	MCF2L
chr19	45348917	45349685	*	9	0.022754336	-0.022649375	-0.007454979	NECTIN2
chr16	88922618	88923231	*	5	0.022758107	0.012131075	0.003835718	GALNS;TRAPPC2L
chr2	135675569	135675773	*	3	0.022760632	0.010657005	0.005412269	CCNT2;CCNT2-AS1
chr19	51051861	51052080	*	4	0.022774382	0.02946249	0.017571525	LRRC4B
chr2	120281999	120282685	*	8	0.022775441	0.019730844	0.009280859	SCTR
chr17	7233596	7234027	*	3	0.022789703	-0.037086355	-0.02054517	NEURL4
chr3	125075895	125076372	*	4	0.022816985	-0.014649341	-0.007541594	ZNF148
chr19	46476963	46478091	*	9	0.02281736	-0.028968795	-0.012710849	NOVA2
chr1	231004374	231004784	*	9	0.022821159	-0.01417232	-0.000333738	C1orf198
chr1	3435887	3436219	*	5	0.022844425	0.023680645	0.008096042	MEGF6
chr10	101088508	101089149	*	10	0.022852301	0.026293687	-0.00389852	CNNM1
chr1	228463260	228463734	*	3	0.022868748	-0.028981827	-0.008349463	OBSCN
chr10	23484025	23484326	*	4	0.022873303	0.01007842	0.001193069	NA
chr11	60719942	60720229	*	5	0.022896638	-0.016697038	-0.009328236	SLC15A3
chr7	4174482	4175200	*	6	0.022902683	0.019954585	0.010025714	SDK1
chr7	86273685	86274133	*	4	0.022955215	-0.011445406	-0.007019648	GRM3
chr11	1771555	1772006	*	6	0.022959888	0.029908887	0.014281426	IFITM10;MOB2
chr13	111164367	111164966	*	4	0.022973552	0.03391682	0.023314581	COL4A2;COL4A2-AS1
chr2	28550531	28551104	*	3	0.022975536	0.018600588	0.008447167	BABAM2
chr10	115510718	115511504	*	5	0.022995232	0.01315938	0.010672678	PLEKHS1
chr14	20773409	20774219	*	11	0.023035568	-0.021383953	-0.007396563	TTC5
chr10	831247	831947	*	4	0.023035568	-0.024291792	0.00707632	NA
chr10	743761	744747	*	4	0.0230477	0.024745629	0.016687811	NA
chr1	213562740	213562923	*	3	0.023073095	0.076288159	0.034254866	NA
chr12	4488749	4489221	*	7	0.023075629	-0.027384857	-0.009816448	FGF23
chr17	6023675	6024017	*	4	0.023075629	0.025562971	0.013347635	WSCD1
chr4	7940579	7940843	*	4	0.02310334	0.009637054	0.005573726	AFAP1
chr4	123929378	123929846	*	3	0.023128603	-0.019079803	-0.009470249	SPATA5
chr16	4465731	4466818	*	8	0.023128701	-0.010636744	-0.00440155	CORO7;CORO7-PAM16
chr10	45470023	45470562	*	4	0.023132108	0.017908824	-0.002088607	RASSF4
chr6	127796287	127796683	*	3	0.023133876	0.03555648	0.026542256	SOGA3
chr8	22421913	22422380	*	4	0.023135756	0.015812614	0.007689636	SORBS3
chr3	3840514	3841853	*	10	0.023144427	-0.011981434	-0.005448165	LRRN1;SUMF1
chr8	61545334	61545646	*	3	0.023149144	0.034034083	0.00236984	NA
chr8	144408506	144408955	*	5	0.023160963	-0.013938951	0.000124698	TOP1MT
chr16	87099957	87100606	*	5	0.023167907	0.027838153	-0.003091624	NA
chr10	101769626	101770384	*	4	0.023184586	-0.018717596	-0.013959502	DNMBP
chr19	38806145	38806874	*	11	0.023187911	-0.009835603	1.60E-05	KCNK6;Y1F1B
chr6	39760607	39760833	*	5	0.023199131	-0.036496586	-0.011747522	DAAM2
chr9	131902135	131902471	*	4	0.023245726	-0.007040828	0.000450113	PTPA
chr1	109373104	109373498	*	3	0.023251236	-0.032754099	-0.020453801	AKNAD1
chr6	167544901	167545232	*	3	0.023255614	0.025103202	0.022068613	CCR6
chr9	16870464	16871106	*	7	0.023262132	-0.031478402	-0.013611933	BNC2
chr12	132380903	132381984	*	4	0.023268102	-0.02388973	-0.013387036	ULK1
chr2	85765766	85765672	*	9	0.023276555	-0.00755426	-0.000118481	MAT2A;PARTICL
chr22	50438356	50438769	*	4	0.023276555	0.026049363	0.014938898	IL17REL
chr13	114057070	114058019	*	5	0.023352647	0.013884462	0.009562224	NA
chr17	19185638	19186341	*	4	0.023353326	0.015496311	0.002719708	EPN2
chr18	43408770	43408983	*	3	0.023353326	0.020389876	0.002286433	SIGLEC15
chr10	3207620	3208485	*	3	0.023362866	-0.028862457	-0.01846208	PITRM1
chr8	130995990	130996306	*	4	0.023368743	0.021107532	0.017267699	CYRIB
chr14	68283005	68283326	*	4	0.023371429	-0.008920413	-0.005487345	RAD51B;ZFYVE26
chr6	158994197	158994509	*	3	0.023373682	0.027497515	0.01717291	TMEM181
chr14	39900677	39902004	*	15	0.023380091	-0.014513307	-0.00287216	FBXO33
chr19	55685292	55685577	*	3	0.023390808	-0.006746496	-0.005568788	SYT5
chr14	61119419	61120134	*	8	0.023392368	-0.010791886	-0.004389656	SIX1
chr1	182991254	182991847	*	4	0.023414108	0.01488291	0.003914066	LAMC1
chr13	114107554	114108433	*	10	0.023416204	-0.026632122	0.000850331	ADPRHL1
chr2	97426921	97427445	*	5	0.023427732	-0.010152483	-0.000531357	CNNM4
chr16	23568302	23569012	*	16	0.023444348	0.015563436	0.003124506	EARS2;UBFD1

chr1	30112256	30112807	*	3	0.023451923	-0.02593472	-0.006551786	NA
chr6	31781967	31782374	*	3	0.023483234	0.010406333	0.002322764	HSPA1A;HSPAIL
chr15	48009928	48010592	*	4	0.023495087	-0.010010132	-0.002339207	SEMA6D
chr1	180922629	180923340	*	5	0.023501591	-0.052517517	-0.024435756	NA
chr5	176169542	176170138	*	5	0.023503733	0.018420429	0.002791991	NA
chr3	49908706	49909109	*	3	0.023507431	0.028235403	0.015801167	CAMKV
chr16	30034426	30034487	*	3	0.023544342	0.017874791	0.012184657	BOLA2;C10orf92
chr1	241694967	241695616	*	4	0.023553198	0.046729577	0.010435694	KMO
chr16	73096842	73097364	*	6	0.023564662	-0.023999223	-0.005642974	ZFH3
chr11	22850891	22851422	*	8	0.023579839	-0.035547889	-0.015848134	SVIP
chr20	60757239	60757919	*	6	0.023595696	0.020054046	0.002737464	MTG2;SS18L1
chr10	123286125	123286731	*	4	0.023596767	-0.040326741	-0.023266155	FGFR2
chr5	31193985	31194749	*	7	0.023624389	-0.013380821	-0.006889886	CDH6
chr6	30038254	30039025	*	15	0.023625717	0.022891789	0.008600461	RNF39
chr15	40453091	40453778	*	10	0.02363706	-0.014588059	-0.001990964	BUB1B
chr4	54975250	54975894	*	5	0.023644997	0.013997897	-0.001295401	PDGFRA
chr8	143808432	143809371	*	6	0.023660705	-0.016101431	-0.005070751	LNCOC1;THEM6
chr13	112075959	112076633	*	5	0.023668396	0.024453732	0.004069816	NA
chr15	101606267	101606897	*	3	0.023677953	0.017040244	0.007401494	LRRK1
chr2	28668002	28668518	*	3	0.023679454	0.02815081	-0.000709874	NA
chr6	52363697	52363783	*	3	0.023693551	0.017849944	0.011801131	EFHC1;TRAM2
chr19	16986822	16988083	*	4	0.023720709	0.038034741	0.022891785	SIN3B
chr10	119117341	119117529	*	3	0.023728444	-0.03159878	-0.018097974	PDZD8
chr19	3025347	3025829	*	5	0.023740711	0.02553882	0.016391741	TLE2
chr1	233248709	233249314	*	5	0.023772923	-0.013815822	-0.010857722	PCNX2
chr19	1408136	1408619	*	4	0.023822272	-0.010570725	-0.005328946	DAZAP1
chr16	90039076	90039755	*	12	0.023832557	-0.019193334	-0.001830024	AFG3L1P;CENPBD1
chr6	33969752	33970166	*	4	0.023835733	-0.017134764	-0.001916124	MIR1275
chr2	113967479	113967644	*	3	0.023848976	0.019259163	0.004016918	NA
chr11	58731154	58731433	*	3	0.023854873	0.043030153	0.023604255	LOC283194
chr1	170114243	170114782	*	3	0.023863702	0.053024819	0.008971284	METTL11B
chr14	21271115	21272204	*	9	0.023874319	0.018784698	0.000974603	RNASEI
chr2	178129548	178130284	*	9	0.02394275	-0.006824045	-0.002122758	NFE2L2
chr5	1952807	1953127	*	3	0.02395371	-0.044109212	-0.023357947	NA
chr1	9340416	9340583	*	3	0.023965557	-0.022094372	-0.013995119	NA
chr19	40871421	40872142	*	5	0.023974719	0.050043365	0.014528636	PLD3
chr9	131872542	131872920	*	3	0.023990814	-0.008331078	-0.004453139	CRAT;PTPA
chr15	23086598	23086979	*	9	0.024019267	-0.013281567	-0.005209354	NIPA1
chr3	81557365	81557839	*	3	0.02403408	-0.030213491	-0.021519421	GBE1
chr9	95526812	95527341	*	4	0.024037295	-0.006361723	0.000483837	BICD2
chr3	67022555	67023309	*	4	0.024049145	-0.035346873	-0.023924741	NA
chr13	46626275	46626866	*	6	0.02405804	-0.007592878	-0.003516584	CPB2;ASI;ZC3H13
chr13	36052768	36053408	*	4	0.024065489	0.012022204	0.005177437	MIR548F5;NBEA
chr2	231276363	231276668	*	4	0.024078936	-0.022023142	-0.012380011	SP100
chr19	13226942	13227421	*	6	0.024104561	-0.028837906	-0.002614246	NACCF;TRMT1
chr17	34122943	34123326	*	5	0.02412043	0.017621776	0.0088314	MMP28
chr5	19886482	19886875	*	3	0.024133103	-0.030270726	-0.012150146	CDH18
chr1	173833450	173834831	*	6	0.024157139	0.023269854	0.00939177	GAS5;SNORD47;SNORD78;SNORD79;SNORD80;SNORD81;ZBTB37
chr16	51796185	51796557	*	5	0.024157139	-0.014178671	-0.005584734	NA
chr1	173683037	173683938	*	6	0.024164113	0.019737867	-0.003412947	KLHL20
chr14	62550745	62550978	*	3	0.024178852	0.028925291	0.005649265	SYT16
chr5	159343468	159344281	*	6	0.024183248	-0.026476754	-0.003588278	ADRA1B
chr16	21222863	21223048	*	4	0.024183248	-0.015011082	-0.010747525	ZP2
chr12	277213	278159	*	6	0.02418362	0.023849918	-0.001227543	IQSEC3
chr10	29698152	29699043	*	9	0.024187951	-0.029063745	-0.018344406	PTCHD3P1
chr15	22955157	22955872	*	9	0.024191871	0.025961285	0.006584417	CYFIP1
chr15	94623896	94624459	*	4	0.024200971	0.021804996	0.016762132	NA
chr14	21550211	21550253	*	3	0.024201248	0.015603213	0.01214595	ARHGGEF40
chr1	33772519	33772997	*	3	0.024225821	-0.020670465	-0.005892481	A3GALT2
chr9	139011703	139011834	*	5	0.02423821	0.014987886	0.010794332	TMEM250
chr4	149363450	149363912	*	9	0.024246818	-0.005650537	0.000182162	NR3C2
chr1	167683730	167683897	*	3	0.024253891	0.017819267	-0.001183194	NA
chr16	48844754	48844808	*	3	0.024259405	-0.014249576	-0.009343767	NA
chr7	107578250	107578588	*	3	0.024275497	-0.024234301	-0.010133745	LAMB1
chr5	22854640	22854718	*	4	0.024285351	-0.023081725	-0.011789089	CDH12
chr4	103421951	103422246	*	5	0.024288227	0.017424062	0.003947905	NFKB1

chr2	48010097	48010362	*	5	0.024299737	-0.012562638	-0.003601376	MSH6
chr1	38230769	38231980	*	11	0.024299842	0.018541976	0.001043877	EPHA10
chr7	132937623	132937996	*	10	0.024310624	-0.021558667	-0.007927604	EXOC4
chr15	75917792	75918631	*	12	0.024314551	-0.011871083	-0.002399407	SNUPN
chr1	248191944	248192376	*	4	0.024320769	0.022733143	0.005263851	OR2L13
chr9	71819016	71819562	*	3	0.024331829	-0.013778676	-0.008365666	TJP2
chr6	41888233	41889049	*	10	0.024332361	0.018866189	-0.000637106	BYSL;MED20
chr15	69323876	69324156	*	5	0.024340087	-0.019360817	-0.008597363	MIR548H4;NOX5
chr8	10907718	10907788	*	3	0.024354826	-0.026951159	-0.009453563	XKR6
chr14	101532170	101532938	*	9	0.024356962	0.015951262	0.006962594	MEG9;MIR410;MIR656
chr5	178413560	178414540	*	5	0.024362102	0.028867768	0.010985766	GRM6
chr8	49468296	49469040	*	9	0.024368229	0.028252922	-0.000565315	NA
chr1	55271284	55271927	*	9	0.024394204	0.026072684	0.013542193	LEXM;TTC22
chr11	372999	373615	*	5	0.024397671	0.008601026	0.006896504	B4GALNT4
chr16	89692360	89692715	*	4	0.024401674	-0.014520971	-0.006341301	DPEP1
chr17	72967968	72969066	*	10	0.024440547	-0.029338591	-0.007472728	HID1
chr7	101882646	101883319	*	4	0.024465389	0.016833226	-0.000364371	CUX1
chr4	169770092	169770406	*	3	0.024472101	-0.051377777	-0.04809308	PALLD
chr15	99193466	99194172	*	5	0.024481856	-0.015893046	-0.002720946	IGF1R
chr1	1250665	1251017	*	3	0.024494502	0.04056694	0.021183302	INTS11
chr14	55221338	55221487	*	3	0.024506886	-0.015255763	-0.003288359	SAMD4A
chr5	15928089	15928686	*	3	0.024513167	0.024844057	0.015241517	FBXL7
chr19	13113455	13113668	*	3	0.024522449	-0.017269042	0.002394347	NFIX
chr16	188651	189100	*	9	0.024532306	-0.019431342	-0.004833621	NPRL3
chr2	75787718	75789090	*	13	0.024567713	0.017150827	0.000749865	EVA1A
chr6	143832855	143833421	*	11	0.024573578	-0.012717236	-0.001164942	FUCA2
chr21	45502757	45502963	*	5	0.024601201	-0.023967764	-0.007122097	TRAPPC10
chr15	56757108	56757806	*	12	0.024632941	-0.013936528	-0.001271515	MNS1
chr1	159796231	159796434	*	3	0.024632941	-0.014990393	-0.01071243	SLAMF8
chr16	68572342	68572999	*	7	0.024674575	-0.020380943	-0.000516355	ZFP90
chr1	154974950	154975574	*	4	0.02467511	0.009771549	0.003699023	ZBTB7B
chr19	30865486	30866365	*	6	0.024715764	-0.022666196	-0.010751679	ZNF536
chr12	54982281	54982903	*	10	0.024727733	0.012686918	-0.001647419	PPP1R1A
chr15	80986274	80986965	*	3	0.024727733	-0.021538625	-0.011065656	ABHD17C
chr16	77755944	77756064	*	3	0.024757013	-0.019934743	-0.013841951	NUDT7
chr8	102179442	102179532	*	3	0.024757013	0.01846259	0.006770977	NA
chr8	146078935	146079781	*	8	0.024758052	0.023330266	-0.004283665	COMMD5
chr6	36515153	36515856	*	7	0.024772091	0.024870096	0.003661252	STK38
chr14	92413497	92414300	*	13	0.024789548	-0.022484811	-0.006445213	FBLN5
chr9	1050430	1050903	*	7	0.024799459	-0.013333181	-0.006270251	DMRT2
chr20	33291892	33292450	*	9	0.024828472	-0.022471021	-0.001544115	TP53INP2
chr14	23540584	23541335	*	6	0.024842341	0.015777153	-0.001532588	ACIN1
chr16	72127130	72127738	*	13	0.024843059	-0.016816219	-0.00235918	DHX38;TXNLAB
chr2	200320455	200321016	*	7	0.024877723	0.009737732	-0.000575352	SATB2
chr7	73008007	73008295	*	3	0.02488519	0.017602017	0.007933533	MLXIPL
chr15	74495109	74495657	*	9	0.024886326	0.024516791	0.012774345	STRA6
chr7	145813008	145813494	*	10	0.024889397	-0.045306852	-0.010128303	CNTNAP2
chr19	40005351	40006292	*	13	0.024911602	-0.016577915	-0.005501509	SELENOV
chr17	39507615	39508274	*	4	0.024911602	-0.028152687	-0.010586159	KRT33A
chr8	134202353	134202467	*	4	0.024911602	0.020165945	0.001172466	CCN4
chr1	11821740	11822362	*	11	0.024933024	0.022412722	-7.26E-05	NA
chr4	176922556	176923081	*	5	0.024936514	-0.008263226	-3.85E-05	GPM6A
chr10	132912784	132913255	*	5	0.024940918	0.03782205	0.004950551	TCERG1L
chr1	50574837	50575374	*	5	0.024943011	-0.017322337	-0.006178289	ELAVL4
chr17	52978014	52978583	*	7	0.024955115	-0.016833589	-0.001627217	TOM1L1
chr6	137241923	137242316	*	4	0.024955115	0.023974425	0.006653464	SLC35D3
chr15	25201020	25201732	*	4	0.024960028	-0.013025604	-0.005693289	SNRPN;SNURF
chr10	111966029	111966886	*	4	0.024972278	-0.04594774	-0.026670442	MXI1
chr4	47487081	47487587	*	9	0.024982956	-0.030108128	-0.008909825	ATP10D
chr17	37754160	37754424	*	4	0.024991171	-0.016710105	-0.004281261	NA
chr10	131577638	131577741	*	3	0.024991171	0.022587564	0.013052818	NA
chr17	56408688	56409011	*	5	0.025005343	-0.018912318	-0.008275355	MIR142;TSPOAP1;TSPOAP1-AS1
chr5	122434472	122435081	*	5	0.025007316	0.025998467	0.00778337	PRDM6
chr19	17608110	17608394	*	3	0.025029831	0.033184835	0.028366925	SLC27A1
chr2	197792289	197792853	*	4	0.025038229	0.016739893	0.007401751	PGAP1
chr19	9965044	9965490	*	6	0.025047148	0.025131601	0.00791512	OLFM2

chr1	52456918	52457247	*	3	0.025082882	0.023163527	0.011444023	<i>RAB3B</i>
chr8	96085385	96085994	*	4	0.025097994	-0.038378871	-0.024207136	<i>MIR3150B;NDUFA6</i>
chr19	35801014	35801215	*	3	0.025110505	0.03280158	0.023418461	<i>MAG</i>
chr20	44718510	44718948	*	10	0.025121123	-0.011696411	-0.003000267	<i>NCOA5</i>
chr6	33216585	33217303	*	20	0.025123725	0.020235244	0.001951646	<i>HCCG25</i>
chr3	195638330	195638936	*	3	0.025136766	0.01686719	0.010950212	<i>TNK2</i>
chr6	168066888	168067665	*	3	0.025145542	0.031162048	0.014596939	<i>NA</i>
chr1	232940329	232940591	*	6	0.025147405	-0.019422222	-0.001808698	<i>MAP10</i>
chr2	136742919	136743460	*	8	0.025156527	-0.010763039	-0.000961733	<i>DARS1</i>
chr17	71419646	71420454	*	7	0.025169932	0.011963974	0.001841447	<i>SDK2</i>
chr7	100861711	100862300	*	3	0.025195065	-0.016358288	-0.009996633	<i>PLOD3;ZNHIT1</i>
chr11	133837265	133838053	*	4	0.025216649	-0.033165618	-0.017550313	<i>NA</i>
chr4	184825842	184826314	*	5	0.025217423	0.018181619	0.002320703	<i>STOX2</i>
chr2	1895961	1896720	*	3	0.025222228	0.013041819	0.006076357	<i>MYT1L</i>
chr17	16229787	16230051	*	3	0.025227247	-0.012460536	-0.006323037	<i>NA</i>
chr6	30737007	30737270	*	4	0.025240537	-0.018462671	-0.007460381	<i>NA</i>
chr5	131563015	131563953	*	13	0.025278233	-0.018186217	-0.000531116	<i>P4HA2</i>
chr8	139734443	139734844	*	4	0.02529673	0.029237917	0.018024075	<i>COL22A1</i>
chr1	70686743	70686970	*	3	0.02530547	0.011788309	0.002796617	<i>SRSF11</i>
chr16	24621214	24621578	*	4	0.025321504	-0.013827499	-0.007095153	<i>NA</i>
chr9	36572411	36572905	*	10	0.025337905	0.014465437	0.000425482	<i>MELK</i>
chr19	19572954	19573143	*	3	0.025348815	-0.01829077	-0.013602342	<i>GATAD2A</i>
chr8	144358566	144359074	*	3	0.025360093	-0.063059387	-0.040757177	<i>GLI4;ZFP41</i>
chr8	56792171	56792545	*	6	0.025386816	0.014564309	0.001531371	<i>LYN</i>
chr8	2091201	2091425	*	3	0.02538793	0.017784014	7.79E-05	<i>MYOM2</i>
chr5	5140372	5140646	*	3	0.025390365	-0.025111887	-0.01628176	<i>ADAMTS16</i>
chr10	49719302	49719922	*	4	0.025399177	0.011759515	0.000511951	<i>ARHGAP22</i>
chr11	65029061	65030075	*	13	0.025427012	-0.007975267	-0.000156772	<i>POLA2</i>
chr11	70455278	70455309	*	3	0.025436463	-0.024966313	-0.022009565	<i>SHANK2</i>
chr6	158402912	158403038	*	3	0.025460336	-0.008153169	-0.003639287	<i>SYNJ2</i>
chr12	75723785	75724205	*	12	0.02550852	-0.007599444	-0.003381148	<i>CAPS2;GLIPR1L1</i>
chr15	41836038	41836937	*	11	0.025563257	-0.020577128	-0.003475972	<i>RPAP1</i>
chr20	33460767	33461536	*	7	0.025565649	0.014755576	0.001071164	<i>ACSS2;GGT7</i>
chr22	18985632	18985691	*	3	0.025580392	0.038719635	0.027931054	<i>DGCR5</i>
chr2	70995440	70996021	*	9	0.025600399	-0.044533432	-0.010566277	<i>ADD2</i>
chr20	657283	657694	*	4	0.025600399	-0.006374721	-0.00314698	<i>SCRT2;SRXN1</i>
chr7	2738728	2738961	*	3	0.025628029	-0.008096122	-0.00502115	<i>AMZ1</i>
chr11	101980355	101980807	*	4	0.025644887	-0.014328125	-0.002497409	<i>YAP1</i>
chr1	226734755	226735384	*	3	0.025644887	0.027225521	0.009254811	<i>STUM</i>
chr17	782910	783451	*	4	0.025660049	-0.034554277	-0.013755538	<i>NXN</i>
chr17	79668281	79669156	*	5	0.025670324	0.019937687	0.008605858	<i>HGS;MRPL12;SLC25A10</i>
chr18	33767393	33767797	*	5	0.025678932	-0.014572275	-0.007899912	<i>MOCOS</i>
chr5	79331477	79331850	*	4	0.025698443	0.022865588	0.011114264	<i>THBS4</i>
chr7	40174653	40175036	*	3	0.025711656	0.013230155	0.006069509	<i>MPLKIP;SUGCT</i>
chr5	1269992	1270598	*	5	0.025717569	0.029378928	0.009173986	<i>TERT</i>
chr2	231084523	231084965	*	6	0.025718482	-0.019651241	-0.008198637	<i>SP110</i>
chr19	36980659	36980975	*	11	0.02573449	-0.015306605	-0.001939222	<i>LOC728752;ZNF566</i>
chr8	21881852	21882587	*	8	0.025735631	0.007936846	0.002912551	<i>NPM2</i>
chr1	15478280	15479095	*	10	0.025753474	-0.018960765	-3.28E-05	<i>TMEM51;TMEM51-AS1</i>
chr7	96653183	96653747	*	3	0.025773857	0.013876997	-0.001089756	<i>DLX5</i>
chr5	67521596	67521733	*	3	0.025783118	0.020361895	0.008838668	<i>PIK3R1</i>
chr6	30523072	30524468	*	33	0.025784482	-0.024756424	-0.004556293	<i>GNL1;PRR3</i>
chr16	15982174	15983042	*	10	0.025792532	0.018846581	0.000391675	<i>CEP20</i>
chr12	89744150	89744701	*	8	0.025792532	-0.020425111	-0.00956793	<i>DUSP6</i>
chr13	36787885	36788462	*	3	0.025792532	0.023161444	0.011043061	<i>CCDC169;SOHLH2;SOHLH2</i>
chr19	36346914	36347626	*	4	0.025792723	-0.009805396	-0.00251473	<i>KIRREL2;NPHS1</i>
chr16	89686885	89687052	*	5	0.025796024	0.036704255	0.01265787	<i>DPEP1</i>
chr10	118886758	118886914	*	3	0.02581048	0.016311195	0.012694085	<i>SHTN1</i>
chr19	2038527	2038600	*	3	0.02581048	0.022424479	0.020078266	<i>MKNK2</i>
chr2	106226918	106227214	*	4	0.025822024	-0.020475879	-0.001492392	<i>LOC285000</i>
chr16	68278423	68278969	*	5	0.025829513	-0.013241507	-0.003012436	<i>PLA2G15</i>
chr7	18535499	18535899	*	4	0.02585145	-0.008622491	-0.003881623	<i>HDAC9</i>
chr16	31159558	31159920	*	5	0.025873145	0.032871097	0.024530984	<i>PRSS36</i>
chr19	1083007	1083429	*	4	0.025882189	0.024418207	0.01071721	<i>ARHGAP45</i>
chr11	102401438	102402091	*	4	0.025896815	-0.015013855	-0.000686757	<i>MMP7</i>
chr10	1285332	1285535	*	3	0.025920301	0.012717308	0.002938243	<i>ADARB2</i>

chr4	154709756	154710224	*	4	0.025989848	0.005248862	0.000795373	SFRP2
chr4	185570396	185570979	*	10	0.02603161	-0.02422017	-0.012454018	CASP3:PRIMPOL
chr20	58179996	58180616	*	4	0.026031712	-0.018846572	-0.003534909	PHACTR3
chr12	131568718	131569289	*	4	0.026041191	0.025804989	0.007917313	ADGRD1
chr16	48419131	48419812	*	5	0.026043168	-0.013949308	-0.005535146	MIR548AE2:SIAH1
chr8	145649036	145649678	*	5	0.026067638	0.02019504	0.013776397	VPS28
chr1	182360683	182361507	*	11	0.026068688	-0.018728156	-0.004987561	GLUL
chr4	53588360	53588850	*	5	0.026076586	-0.004204611	-0.002549488	NA
chr15	68570336	68570942	*	5	0.026088351	-0.004364426	-0.000417786	FEM1B
chr12	10183167	10183850	*	7	0.026114426	-0.025131691	-0.014865204	CLEC9A
chr8	28196872	28196932	*	3	0.026136116	-0.01269803	-0.010709763	PNOC
chr17	74733438	74734280	*	14	0.026170008	-0.00822292	-0.001353888	MFSD11:MIR636:SRSF2
chr2	63271927	63272334	*	4	0.026211473	0.028929387	0.014489676	EHBPI1:LOC100132215:OTX1
chr1	1115575	1115920	*	4	0.026212113	0.01612516	0.010443677	TTL10
chr2	241508090	241508108	*	3	0.026226195	-0.02897753	-0.022036917	RNPEPL1
chr17	35289351	35289677	*	4	0.026226732	-0.012927644	-0.004345511	NA
chr22	24032426	24032999	*	5	0.02624579	0.013077847	0.008259086	GUSBP11:RGL4
chr6	128841559	128842318	*	13	0.026274293	-0.017282825	-0.001470883	PTPRK
chr8	10987869	10988117	*	4	0.026351129	-0.013950697	0.004069803	XKR6
chr2	171627721	171628203	*	4	0.026355848	-0.020170287	-0.008160153	NA
chr19	5237246	5237619	*	4	0.026357332	0.02025144	0.010795233	PTPRS
chr14	96566573	96566671	*	3	0.026357332	0.012925155	0.007166994	NA
chr11	132813362	132814117	*	7	0.026370532	-0.024569333	-0.009080603	OPCML
chr11	71189385	71189582	*	3	0.026437153	-0.021112881	-0.014006844	NADSYN1
chr6	30613282	30613506	*	3	0.02644018	0.015533539	0.008499061	ATAT1:C6orf136
chr10	50341989	50342347	*	4	0.026448213	0.025148268	0.007788431	FAM170B:FAM170B-AS1
chr5	59481426	59481615	*	3	0.026456055	-0.029867731	-0.010552711	PDEAD
chr6	158437741	158438419	*	10	0.026462159	0.019502477	0.007034899	SYNJ2
chr6	42110188	42110867	*	8	0.026472382	-0.021358816	-0.008441319	C6orf132
chr9	140444429	140445006	*	5	0.02652657	-0.006717344	-0.005792238	MRPLA1:PNPLA7
chr12	106495651	106496122	*	3	0.026536772	-0.025583764	-0.009345546	NUAK1
chr12	32552765	32553273	*	5	0.026548463	-0.016157697	-0.003269305	NA
chr4	1294432	1295078	*	8	0.02656048	-0.015800579	-0.009713442	MAEA
chr1	29138919	29139121	*	4	0.026606119	-0.020867678	-0.010684691	OPRD1
chr22	25960673	25961523	*	5	0.026607724	-0.033582876	-0.012285211	GRK3
chr16	11348611	11349023	*	5	0.026615323	-0.019501756	-0.003928521	RM12:SOCS1
chr15	94840793	94841112	*	4	0.026635492	-0.018910781	-0.013303779	MCTP2
chr3	101546589	101547296	*	8	0.026638687	-0.013092727	-0.003965935	NFKB1Z:NXPE3
chr19	47524222	47524483	*	3	0.026638687	0.005774856	0.002385419	NPAS1
chr22	50739843	50740298	*	4	0.026640159	0.034904991	0.007803084	PLXNB2
chr17	66985719	66986095	*	3	0.026644113	-0.020897306	-0.009259785	ABCA9
chr1	24393149	24393584	*	4	0.026648569	0.024118434	0.004441647	MYOM3
chr19	44616907	44617506	*	10	0.026657051	-0.009739627	-0.003529649	LOC100379224:ZNF225
chr19	5829172	5829415	*	3	0.026660227	0.033119882	0.014746095	NA
chr11	2159853	2160129	*	3	0.026685403	-0.022092829	-0.007647097	IGF2:IGF2-AS:INS-IGF2:MIR483
chr19	14260587	14260651	*	3	0.026710897	-0.011069193	-0.007709552	ADGRL1:LOC100507373
chr20	30639305	30640164	*	13	0.026718472	-0.018513779	-0.003926139	HCK
chr15	99789622	99790022	*	7	0.026744015	-0.025739608	-0.015078565	LRRC28:TTC23
chr5	150585032	150585210	*	4	0.026768602	0.020957315	0.004811991	CCDC69
chr2	60781129	60781640	*	5	0.026775825	-0.018642681	-0.008543933	BCL11A
chr11	76902992	76903183	*	3	0.026779211	-0.035014812	-0.033618581	MYO7A
chr12	125398559	125399214	*	7	0.026789559	-0.016185413	-0.003422395	MIR5188:UBC
chr1	149889330	149889544	*	3	0.026796885	-0.026349425	-0.010167697	SV2A
chr3	40547540	40547855	*	5	0.026832981	0.013754923	0.003472028	ZNF620
chr14	100610407	100610667	*	3	0.026845681	0.019894719	0.015748547	EVL
chr17	41738893	41739326	*	5	0.026872684	0.050350495	0.018222959	MEOX1
chr17	76464687	76464784	*	3	0.026872684	0.022516627	0.016963212	DNAH17
chr12	65048810	65049149	*	4	0.026891509	-0.027989958	-0.013678446	RASSF3
chr2	215275757	215276156	*	4	0.026894565	-0.030084109	-0.015109885	VWC2L
chr14	90847024	90847382	*	3	0.026895108	0.022505032	0.01144166	NA
chr4	96470887	96471143	*	4	0.026896723	-0.013437111	-0.001935798	UNC5C
chr16	3931286	3931885	*	4	0.026896723	0.03410584	0.016123103	CREBBP
chr1	28157569	28157761	*	4	0.026904809	-0.005515317	-0.003727893	PPP1R8:SCARNA1
chr10	131365266	131365343	*	3	0.026906831	-0.016868756	-0.00861347	MGMT
chr11	66033194	66033456	*	4	0.026911399	0.013095351	0.00525014	KL2:RAB1B
chr3	18480242	18480706	*	6	0.026913378	-0.017963529	-0.008783414	SATB1

chr7	5518071	5518918	*	5	0.026931266	-0.015197123	-0.00661515	<i>FBXL18</i>
chr4	7665770	7666259	*	6	0.026946036	0.021077344	0.008544666	<i>SORCS2</i>
chr4	25915329	25916067	*	7	0.02695353	-0.014948757	-0.001650402	<i>SMIM20</i>
chr19	11215861	11216364	*	5	0.026954299	0.030582628	0.01343758	<i>LDLR</i>
chr12	69202638	69202842	*	7	0.027005058	-0.017439357	-0.001403803	<i>LOC100130075;MDM2</i>
chr12	1772230	1773108	*	4	0.027007191	0.033546382	0.02296519	<i>MIR3649</i>
chr10	128593624	128594144	*	8	0.027012022	-0.021700115	-0.011043993	<i>DOCK1</i>
chr20	2451474	2452132	*	9	0.02702842	0.03851361	0.002954366	<i>SNRPB</i>
chr18	67955537	67955968	*	6	0.02702842	-0.014753915	-0.007404371	<i>SOCS6</i>
chr5	14871469	14872207	*	9	0.027064163	-0.018846413	-0.002671564	<i>ANKH</i>
chr16	3161669	3162480	*	9	0.0270702	0.034338554	0.014277761	<i>ZNF205;ZNF205-AS1</i>
chr1	241519213	241519756	*	3	0.027082009	0.017420941	0.004231743	<i>RGS7</i>
chr16	769848	770896	*	7	0.027103885	0.019591027	-0.001387583	<i>ANKMT</i>
chr5	17444061	17444401	*	5	0.027125702	-0.02324667	-0.014670833	<i>NA</i>
chr3	50541011	50541552	*	8	0.027165823	-0.023864448	-0.00527199	<i>CACNA2D2</i>
chr3	125094085	125094680	*	7	0.027176952	0.003720134	0.001318986	<i>ZNF148</i>
chr3	27756039	27756421	*	5	0.027202894	0.038679496	0.014674123	<i>NA</i>
chr1	43637799	43638475	*	18	0.02720407	-0.006387962	-0.00089307	<i>CFAP57;EBNA1BP2</i>
chr1	154744758	154745202	*	4	0.027204495	0.057424084	0.013482467	<i>KCNN3</i>
chr12	133015383	133015982	*	4	0.027208901	0.011255465	0.001902523	<i>NA</i>
chr6	43970084	43970475	*	3	0.027260095	-0.009280665	-0.001873685	<i>C6orf223</i>
chr11	66444738	66444806	*	3	0.027280268	-0.010269193	-0.003755307	<i>RBM4B</i>
chr11	62340381	62340981	*	3	0.027280605	0.015475887	0.004466674	<i>EEF1G</i>
chr9	129885291	129885938	*	3	0.027296473	0.030971603	0.003943705	<i>ANGPTL2;RALGPS1</i>
chr3	146261991	146262700	*	10	0.027313932	-0.023493314	-0.008914698	<i>PLSCR1</i>
chr7	2020495	2020583	*	4	0.02733579	0.017240951	0.010353182	<i>MAD1L1</i>
chr1	21059114	21059745	*	11	0.027335952	-0.014342888	0.001936912	<i>SH2D5</i>
chr6	43395289	43396116	*	6	0.027338626	0.014648544	0.002067858	<i>ABCC10</i>
chr7	50468399	50469042	*	4	0.027344611	0.010612443	0.00284731	<i>IKZF1</i>
chr10	15255055	15255429	*	4	0.027344819	0.028643747	0.017950242	<i>FAM171A1</i>
chr13	26042382	26043165	*	6	0.027380172	-0.01913996	-0.007151122	<i>ATPSA2</i>
chr9	115095793	115096032	*	5	0.027398161	-0.026319395	-0.012424127	<i>MIR3134;PTBP3</i>
chr16	3067357	3068128	*	6	0.027400658	0.018666343	0.009845262	<i>CLDN6;TNFRSF12A</i>
chr15	77364519	77364890	*	5	0.027400658	0.015837768	-0.001351913	<i>TSPAN3</i>
chr11	63783359	63784126	*	3	0.027429263	-0.024522048	-0.004808094	<i>MACROD1</i>
chr8	96145073	96145483	*	3	0.027440799	0.025188738	0.009950586	<i>PLEKHF2</i>
chr15	83477608	83477965	*	6	0.027453628	0.035616173	0.017411385	<i>FSD2;WHAMM</i>
chr18	6414974	6415922	*	9	0.027473037	-0.020381365	-0.005358693	<i>L3MBTL4</i>
chr8	97273534	97274070	*	10	0.027526171	-0.008684956	-0.00159386	<i>MTERF3;PTDSS1</i>
chr17	42785078	42785378	*	3	0.027526547	0.024321601	0.006637557	<i>DBF4B</i>
chr18	56338220	56338661	*	11	0.027531763	0.00998408	-0.001024696	<i>MALTI</i>
chr15	67390734	67390982	*	4	0.027531763	-0.008716118	-0.005438939	<i>SMAD3</i>
chr1	1509833	1510598	*	8	0.027549514	0.005214081	0.000190752	<i>SSU72</i>
chr4	146099474	146099544	*	3	0.027576894	0.027518277	0.008174641	<i>OTUD4</i>
chr11	117299121	117299471	*	3	0.027582933	0.018415629	0.011348795	<i>DSCAML1</i>
chr8	42994955	42995566	*	5	0.027596516	-0.015260919	-0.00453431	<i>HGSNAT</i>
chr7	27282112	27282756	*	10	0.027606381	0.018800716	0.002875867	<i>EVX1</i>
chr19	51017855	51018414	*	7	0.027631511	-0.023619189	-0.009103332	<i>ASPDH;JOSD2</i>
chr8	135812896	135813202	*	3	0.027687982	-0.039091657	-0.014649614	<i>MIR30B</i>
chr18	43915649	43915901	*	3	0.027692732	0.014272206	0.010421789	<i>RNF165</i>
chr14	67982456	67983363	*	3	0.027711056	-0.020563575	0.000949689	<i>TMEM229B</i>
chr22	29168135	29168792	*	12	0.027712106	-0.021211336	-0.000688802	<i>CCDC117</i>
chr19	46271962	46272079	*	3	0.027731655	-0.019955445	-0.013302543	<i>SIX5</i>
chr8	80802929	80803365	*	5	0.027736516	-0.009834599	-0.003205515	<i>NA</i>
chr3	33481942	33482718	*	10	0.027774692	-0.020052909	-0.005389272	<i>UBP1</i>
chr4	2820428	2820479	*	3	0.027785588	-0.0237495	-0.020958187	<i>SH3BP2</i>
chr14	69951422	69952104	*	6	0.027789722	0.027016821	0.001063608	<i>PLEKHD1</i>
chr6	75913786	75914333	*	5	0.027796497	-0.021865471	-0.010998053	<i>COL12A1</i>
chr16	86570343	86570503	*	3	0.027831188	0.019015576	0.009551389	<i>MTHFSD</i>
chr10	3374141	3374366	*	4	0.027867867	0.017706322	0.008680846	<i>NA</i>
chr9	140081916	140082149	*	3	0.027872631	-0.01925443	-0.005286571	<i>ANAPC2;SSNAI</i>
chr17	77127426	77127605	*	3	0.027872631	0.023149293	0.017230184	<i>RBFOX3</i>
chr8	11567691	11567896	*	3	0.027894535	-0.042067338	-0.016450419	<i>GATA4</i>
chr10	105253001	105253342	*	4	0.027916985	0.020062188	0.009453206	<i>NEURL1</i>
chr12	54653065	54653427	*	4	0.027922862	0.029867685	0.004364873	<i>CBX5</i>
chr2	113402615	113404078	*	11	0.02794329	0.013367346	0.000368061	<i>FLJ42351;SLC20A1</i>

chr2	175190675	175191374	*	8	0.027950353	-0.016283886	-0.006880979	LINC01305
chr10	114206433	114207009	*	13	0.027956743	-0.019776256	-0.001897324	VTIIA:ZDHHHC6
chr3	46250357	46250809	*	3	0.027970216	-0.027125546	-0.017373629	CCR1;CCR3
chr19	8840459	8841140	*	6	0.027974565	-0.021321392	-0.012111324	OR2Z1
chr16	57505058	57506038	*	3	0.027975331	0.022943401	0.000546799	DOK4;POLR2C
chr14	104387210	104387923	*	7	0.027978035	-0.003048637	-0.000870262	ATP5MPL
chr20	40619057	40619244	*	3	0.027979324	0.039352939	0.02192647	NA
chr1	246958862	246959476	*	5	0.02800432	-0.017348121	0.000318908	NA
chr6	117585741	117586817	*	10	0.028009493	-0.008869309	-0.001421516	VGLL2
chr2	61371880	61372316	*	8	0.028010286	-0.020474328	-0.010340156	C2orf74:LOC339803
chr7	116312265	116312904	*	6	0.028011589	0.015535965	0.001731784	MET
chr6	41703332	41704003	*	9	0.028016435	-0.017118751	0.002925844	TFEB
chr1	47082691	47082869	*	6	0.028017725	-0.031094859	-0.007816433	MKNK1;MOB3C
chr14	90527378	90527606	*	3	0.02803928	-0.02227698	-0.005702776	KCNK13
chr17	77900680	77901224	*	4	0.028117334	0.021680584	0.010962197	NA
chr1	160254759	160255036	*	5	0.028118748	-0.043590066	-0.013081983	DCAF8;PEX19
chr7	2632080	2632689	*	6	0.028165271	0.022799074	0.011634954	IQCE
chr21	31130263	31130566	*	3	0.028189212	0.035729861	0.021369535	GRIK1;GRIK1-AS1
chr15	50473854	50474388	*	9	0.028191581	0.031725506	0.00853738	SLC27A2
chr1	155099264	155099843	*	6	0.028198991	0.007497728	0.000788102	EFNA1
chr13	80917220	80917432	*	3	0.028198991	-0.017546091	-0.009404361	SPRY2
chr19	1510494	1510692	*	4	0.028208256	0.03098925	0.023262851	ADAMTSL5
chr6	31743769	31744339	*	10	0.02823108	0.01839612	0.005141487	VWA7
chr10	18428843	18429760	*	10	0.028256074	-0.02380766	-0.00614826	CACNB2
chr19	1789060	1789618	*	4	0.028256074	-0.024029362	-0.015842675	ATP8B3
chr14	70186289	70186639	*	4	0.028279059	-0.019471243	-0.011964006	NA
chr17	77194008	77194259	*	4	0.028293885	0.024358751	0.012007339	RBFOX3
chr15	82379655	82379947	*	3	0.028296291	0.019963768	0.009022839	NA
chr15	52043657	52044314	*	7	0.02829914	0.017443284	0.00277478	LYSMD2;TMOD2
chr16	3225044	3225686	*	7	0.02830634	-0.021365698	-0.009946532	NA
chr2	134169656	134169851	*	3	0.02831005	-0.027559599	-0.009421863	NCKAP5
chr18	8784363	8784658	*	3	0.028324331	0.023331362	0.015719445	MTCLI
chr1	160231874	160232248	*	6	0.028333123	-0.008741907	-0.001099271	DCAF8
chr4	81951446	81952330	*	8	0.028338593	-0.015615629	-0.004593513	BMP3
chr11	87908558	87909062	*	8	0.02834054	-0.016783279	-0.004944887	RAB38
chr21	31311797	31312154	*	8	0.028346453	-0.007661835	-0.004859584	GRIK1
chr15	67813698	67814090	*	5	0.028346453	-0.010337238	-0.001149543	C15orf61;IQCH-AS1
chr18	74691097	74691423	*	4	0.028351725	-0.023286266	0.002024155	MBP
chr17	38520139	38520653	*	4	0.028355238	0.02491255	0.017331383	GJD3;RARA
chr12	57505529	57505882	*	3	0.028372143	-0.009859702	-0.005716636	STAT6
chr13	112760929	112761740	*	10	0.02840043	-0.018151246	-0.009518714	NA
chr14	95876455	95877009	*	5	0.028409182	-0.011086849	-0.000683463	NA
chr7	45024931	45025620	*	3	0.028409182	0.023395053	0.01339354	SNHG15;SNORA9
chr4	2278261	2278810	*	5	0.028409265	0.013561189	0.008608275	ZFYVE28
chr14	36988217	36988446	*	4	0.0284139	-0.02208383	-0.001958583	NKX2-1;SFTA3
chr2	234112793	234113372	*	4	0.028449414	0.035104081	0.018503125	INPP5D
chr8	37756942	37757338	*	8	0.028454613	-0.00999806	-0.003063796	RAB11FIP1
chr19	30107968	30108105	*	3	0.02846739	0.020164741	0.006764762	POP4
chr2	47142867	47143656	*	13	0.028468861	0.019673486	0.000153221	MCFD2;TTC7A
chr1	29508578	29508888	*	9	0.02847283	0.027101032	0.004084229	SRSF4
chr9	130487227	130487287	*	3	0.028499428	-0.020717263	-0.020068743	PTRH1;TTC16
chr1	197115755	197116190	*	7	0.028507786	-0.014674451	-0.007842348	ASPM
chr7	54794693	54794760	*	3	0.028531321	-0.028048536	-0.004211623	NA
chr17	66511045	66511248	*	5	0.028557429	-0.021621671	-0.014656881	PRKARIA
chr8	67782943	67783229	*	3	0.028569343	-0.014406303	-0.008987848	MCMDC2
chr15	27109950	27110089	*	3	0.028609066	-0.006243236	-0.005516015	GABRA5;GABRB3
chr16	54967024	54967786	*	5	0.028615667	0.025724826	0.006886091	CRNDE;IRX5
chr3	49893745	49894441	*	13	0.028648191	-0.02216899	-0.00076672	TRAP
chr1	112532078	112532258	*	3	0.0286502	-0.05184735	-0.016048621	KCNJ3;LINC01750
chr1	11986612	11986842	*	5	0.028664858	-0.022836594	-0.005419617	KIAA2013
chr7	2671535	2671838	*	3	0.028664858	-0.011116767	-0.005301637	TTYH3
chr6	17707018	17707630	*	7	0.028677906	0.009550708	-0.000510114	NUP153
chr2	8711042	8711256	*	6	0.028714131	-0.014343388	-0.001986116	NA
chr15	69707986	69708380	*	3	0.028721676	0.017586694	0.003615261	KIF23
chr17	47208515	47208775	*	3	0.028728775	0.021475168	0.019049398	B4GALNT2
chr8	38192449	38192662	*	3	0.028735932	0.040997097	0.019285607	NSD3

chr8	146176420	146176685	*	5	0.028743356	0.020561607	0.001328731	ZNF16
chr8	8749074	8749494	*	4	0.028774538	0.018278083	0.008572856	MFHAS1
chr1	3125906	3126365	*	4	0.028825472	-0.021980895	-0.012175299	PRDM16
chr1	28422834	28423139	*	4	0.028846612	-0.017685456	-0.002232013	NA
chr2	105469514	105470050	*	5	0.028878744	0.016820828	8.06E-05	PANTR1;POU3F3
chr2	24583121	24583610	*	6	0.028892341	-0.014468324	-0.00553518	ITSN2
chr1	156561334	156561947	*	10	0.028915172	-0.011186463	-0.001537656	NAXE
chr3	147106489	147106890	*	4	0.028951847	-0.019039332	-0.006707663	ZIC4
chr3	161089247	161090118	*	11	0.028955693	0.010288138	0.000893935	SPTSSB
chr1	64240654	64241013	*	5	0.028957523	-0.009646267	-0.00435374	ROR1
chr19	675390	676009	*	5	0.028958212	0.030758288	0.013883262	FSTL3
chr11	120856646	120856918	*	3	0.028958212	-0.014542675	-0.005195828	GRIK4
chr11	61511574	61512109	*	4	0.028962179	0.016796383	0.008786536	DAGLA
chr15	81195587	81195797	*	4	0.028970499	-0.011230484	0.003711398	CEMIP
chr13	111301487	111301774	*	3	0.028975376	0.020670275	0.009290364	CARS2
chr6	82460558	82461621	*	6	0.028989627	-0.017265318	-0.006207207	TENT5A
chr11	575426	576060	*	4	0.029016108	-0.025815326	-0.007958924	LOC143666;PHRF1
chr5	60240481	60241003	*	10	0.029020194	-0.016313511	-0.000932564	ERCC8;NDUFAF2
chr20	62716332	62716606	*	4	0.029021418	0.019376646	0.012807274	LKAAEAR1;OPRL1
chr1	66258022	66258760	*	7	0.029035662	-0.023017034	-0.009378316	PDE4B
chr17	39680217	39680662	*	4	0.029071195	0.02703785	0.010580367	JUP;KRT15;KRT19
chr19	54327437	54327847	*	5	0.029077108	-0.011969927	-0.006402619	NLRP12
chr6	1410167	1410497	*	4	0.029103117	-0.031898676	-0.014479707	NA
chr12	6472963	6473643	*	6	0.029125936	-0.030092022	-0.007454871	SCNN1A
chr7	151504844	151505116	*	3	0.029125936	-0.027189495	-0.016232028	PRKAG2
chr17	4459073	4459774	*	3	0.029125936	0.014045551	0.007784668	MYBBP1A
chr16	2013110	2013573	*	3	0.029128349	0.021975511	0.020211221	RNF151;RPS2;SNHG9;SNORA10;SNORA64;SNORA78
chr9	139091378	139091875	*	4	0.029150871	-0.026567428	-0.011403034	LHX3
chr1	54411742	54412009	*	9	0.029157653	-0.032127476	-0.007012401	HSPB11;LRRC42
chr15	101970070	101971041	*	3	0.029198058	0.019041231	-0.001944302	PCSK6
chr6	108489795	108490485	*	5	0.029202968	0.01790888	0.002431313	NR2E1
chr10	105361068	105362057	*	4	0.029213126	0.025320675	0.020362099	SH3PXD2A
chr1	203763196	203763498	*	4	0.029240696	-0.015656597	-0.004232487	ZBED6;ZC3H11A
chr1	153971125	153971763	*	3	0.029269256	-0.01222661	-0.004016378	NUP210L
chr8	11560779	11561724	*	12	0.029289583	0.016927423	0.002931022	GATA4
chr5	153418202	153418977	*	18	0.029313509	0.012833524	-0.000399894	FAM114A2;MFAP3
chr1	33909498	33909802	*	3	0.029313509	0.016599602	0.009864421	NA
chr1	228295437	228295568	*	3	0.029338335	0.015530713	0.014013205	C1orf35;MRPL55
chr16	30023515	30024074	*	7	0.029350301	0.03829099	0.011797657	BOLA2;DOC2A
chr17	26899172	26899686	*	5	0.02935059	0.025977827	0.001137725	PIGS
chr1	100503364	100503886	*	8	0.029381303	0.008236455	0.001908403	MFSD14A
chr1	3159568	3159645	*	3	0.029402934	0.020495503	0.006656644	PRDM16
chr15	85933153	85933934	*	5	0.029405947	0.014443466	0.002674097	AKAP13
chr22	29702335	29702866	*	11	0.029414762	-0.010361619	0.00088938	GAS2L1
chr1	61519888	61520099	*	3	0.029423783	-0.015226037	-0.008252401	NA
chr10	124906421	124906859	*	5	0.029440079	-0.015914989	-0.006993044	HMX2
chr6	27648004	27648605	*	5	0.029440701	-0.030777399	-0.014949771	NA
chr21	40451371	40451934	*	3	0.029444486	-0.017734239	-0.016450906	NA
chr19	45997414	45998083	*	4	0.029454401	0.024917738	0.012228511	PPM1N;RTN2
chr22	29707524	29708028	*	3	0.029454401	0.023494894	0.004804479	GAS2L1
chr19	19550083	19550799	*	4	0.029456679	0.011600755	0.004584158	GATAD2A
chr1	16068861	16069045	*	3	0.02947721	0.027529249	0.017204285	TMEM82
chr17	7217969	7219403	*	15	0.029479167	0.015448188	0.002004325	GPS2;NEURL4
chr12	124118982	124119250	*	3	0.029492191	0.020455644	0.008276056	EIF2B1;GTF2H3
chr14	68141349	68142077	*	10	0.029495009	0.018317212	-0.000232968	VTI1B
chr11	57044759	57045318	*	3	0.029510127	-0.012743016	-0.002773663	NA
chr3	15482242	15482647	*	5	0.029524761	0.015074589	0.000699606	EAF1
chr9	78504994	78505312	*	4	0.029527161	-0.005049474	-0.003620281	PCSK5
chr7	96641558	96642163	*	3	0.0295368	-0.038076866	-0.020067191	DLX6-AS1
chr6	109768377	109768634	*	3	0.029594865	-0.015416083	-0.011510647	MICAL1
chr14	54413371	54413931	*	6	0.029637616	-0.011706437	-0.007908881	NA
chr20	33759753	33760017	*	4	0.029644767	-0.013920821	-0.006463776	EDEM2;PROCR
chr15	40268610	40269214	*	5	0.029672394	0.031719617	0.027310763	EIF2AK4
chr1	16009778	16010345	*	3	0.029672394	0.034612036	0.024069889	PLEKHM2
chr8	36641771	36641924	*	4	0.029684959	-0.018613599	-0.001553438	KCNU1
chr8	143781204	143781406	*	7	0.029686957	-0.034789703	-0.012581983	LY6K

chr16	30106682	30107106	*	4	0.029696793	-0.023638898	-0.008998128	<i>BOLA2;TBX6;YPEL3</i>
chr11	70395310	70395513	*	3	0.029716844	0.014561611	-0.000820699	<i>SHANK2</i>
chr21	46351920	46352193	*	3	0.029722714	0.015107852	0.003139738	<i>ITGB2</i>
chr6	146349312	146349638	*	4	0.029733215	0.012013698	-0.001707413	<i>GRM1</i>
chr1	20959617	20960202	*	8	0.029746063	-0.013369197	-0.006041828	<i>PINK1</i>
chr12	89703393	89703686	*	3	0.029746063	0.020214376	0.017376078	<i>NA</i>
chr16	50717571	50718139	*	3	0.029746083	0.01362288	0.005454341	<i>SNX20</i>
chr7	24323559	24323939	*	8	0.029759656	-0.008002321	-0.002126572	<i>NPY</i>
chr15	37170381	37170554	*	3	0.029832795	-0.028923358	-0.013996329	<i>LOC145845</i>
chr20	62317412	62317640	*	3	0.029834484	0.015305503	0.011858207	<i>RTEL1;RTEL1-TNFRSF6B</i>
chr10	82363213	82363434	*	5	0.029843247	-0.026933593	-0.007914514	<i>SH2D4B</i>
chr6	158447877	158448134	*	3	0.029849483	-0.008910671	-0.007252425	<i>SYNJ2</i>
chr11	76493692	76494226	*	8	0.029865613	-0.014253806	-0.004599785	<i>TSKU</i>
chr5	135188170	135188477	*	4	0.029865613	0.021351559	0.015687722	<i>SLC25A48</i>
chr7	73496735	73497616	*	5	0.029867913	0.019675877	0.010568295	<i>LIMK1</i>
chr9	116971578	116972431	*	4	0.029875128	0.025096832	0.014215663	<i>COL27A1;MIR455</i>
chr16	71571613	71572050	*	3	0.029875128	-0.036627581	-0.011015132	<i>CHST4</i>
chr7	64342247	64342997	*	4	0.029889977	-0.023608657	-0.005749007	<i>ZNF273</i>
chr1	2885085	2885244	*	4	0.029889977	0.028902019	0.018888181	<i>NA</i>
chr20	43935222	43935551	*	10	0.029894555	0.034710732	0.015866414	<i>MATN4;RBPJL</i>
chr17	65242413	65242892	*	5	0.029894555	0.015760958	0.009158553	<i>HELZ</i>
chr3	122645347	122645440	*	3	0.029926473	0.016486865	0.012104312	<i>SEMA5B</i>
chr14	23351487	23351876	*	3	0.029927738	-0.011163564	-0.008582318	<i>REM2</i>
chr11	94226637	94227380	*	13	0.029941271	0.007312282	-0.000473679	<i>ANKRD49;MRE11</i>
chr19	5338789	5339092	*	4	0.029957968	0.014734245	-0.001032934	<i>PTPRS</i>
chr6	41254219	41254885	*	6	0.0299685	-0.018731218	-0.006306112	<i>TREM1</i>
chr5	179740743	179741120	*	4	0.029977938	-0.115525323	-0.069213857	<i>GFPT2</i>
chr1	28905410	28905573	*	3	0.029982373	0.036542955	0.012063524	<i>SNHG12;SNORD99</i>
chr11	69970464	69970618	*	3	0.030005298	-0.017481942	-0.001617358	<i>ANO1</i>
chr7	128094710	128095027	*	3	0.030032227	0.024062294	0.018810017	<i>HILPDA</i>
chr12	48396670	48397225	*	4	0.030033385	-0.008438982	-0.001703918	<i>COL2A1</i>
chr5	138940694	138941220	*	6	0.030045825	-0.00538204	-0.000404539	<i>UBE2D2</i>
chr8	141290075	141290228	*	3	0.030062671	0.018167098	0.007159651	<i>TRAPPC9</i>
chr12	48394962	48395490	*	3	0.030065275	-0.007648168	-0.001808491	<i>COL2A1</i>
chr19	11376205	11376638	*	3	0.03009105	0.028368804	0.021985525	<i>DOCK6</i>
chr21	40685679	40686388	*	4	0.03013088	0.004459199	-0.000251131	<i>BRWD1;BRWD1-AS1</i>
chr16	55404939	55405200	*	3	0.030141337	-0.02459302	-0.012679047	<i>NA</i>
chr19	42680337	42680534	*	3	0.030147459	-0.00667763	-0.001602672	<i>NA</i>
chr1	227750845	227751935	*	15	0.030151137	0.031178345	0.003093844	<i>ZNF678</i>
chr2	106362217	106362717	*	3	0.030151137	-0.007778981	-0.004149135	<i>NCK2</i>
chr20	44649524	44650449	*	10	0.030185454	-0.029542831	-0.00739349	<i>SLC12A5</i>
chr15	32162415	32162783	*	3	0.030189834	-0.043340438	-0.023662815	<i>OTUD7A</i>
chr13	113636679	113636953	*	3	0.030226325	0.01798394	0.012927475	<i>MCF2L</i>
chr1	235529879	235530995	*	10	0.030258721	0.02977905	-0.000580201	<i>TBCE</i>
chr19	11032005	11032172	*	3	0.030262906	0.022526325	0.011682472	<i>CARM1</i>
chr10	125652310	125652421	*	3	0.030272951	0.015812871	0.009677763	<i>CPXM2</i>
chr18	59560091	59560289	*	3	0.030278782	-0.016539787	-0.005236506	<i>RNF152</i>
chr9	138194071	138195156	*	4	0.030304553	0.026678363	0.006700532	<i>NA</i>
chr19	48018185	48018329	*	4	0.030310327	0.003240931	0.000709732	<i>NAPA</i>
chr7	27188364	27188770	*	3	0.030310327	0.027328566	0.019452948	<i>HOXA-AS3;HOXA6</i>
chr1	38516658	38517272	*	4	0.030311007	0.015927104	0.00809988	<i>POU3F1</i>
chr12	53074257	53074328	*	3	0.030311998	-0.022206198	-0.000460075	<i>KRT1</i>
chr1	242161780	242161881	*	3	0.030313305	-0.027798518	-0.015442242	<i>MAP1LC3C</i>
chr19	8008671	8009199	*	10	0.030313569	-0.011628952	-0.001211703	<i>TIMM44</i>
chr16	87866696	87866833	*	3	0.030332129	-0.019726346	-0.014384428	<i>SLC7A5</i>
chr17	39387925	39388156	*	4	0.030373323	0.022086921	0.011516711	<i>KRTAP9-3</i>
chr2	9563077	9563880	*	14	0.030401485	-0.018156315	-0.00291149	<i>CPSF3;ITGB1BP1</i>
chr9	72043637	72044252	*	4	0.030409399	0.024438098	0.006938915	<i>APBA1</i>
chr16	125896	126451	*	5	0.030409594	0.018121984	-0.001228797	<i>MPG;RHBDF1</i>
chr3	151986151	151986610	*	5	0.030414419	-0.014956329	-0.001373791	<i>MBNL1;MBNL1-AS1</i>
chr4	1803148	1803443	*	3	0.030425704	0.02047968	0.01308936	<i>FGFR3</i>
chr21	40145404	40146149	*	5	0.030426893	0.014836953	-0.001167419	<i>LINC00114</i>
chr12	122458893	122460105	*	7	0.030430443	-0.023163962	-0.013354815	<i>BCL7A</i>
chr17	7145208	7145538	*	5	0.030435145	-0.032447621	-0.007706823	<i>GABARAP;PHF23</i>
chr1	235256497	235257141	*	6	0.030499983	0.026804003	0.012820792	<i>NA</i>
chr11	121466430	121466629	*	3	0.030503553	-0.0262608	2.20E-05	<i>SORL1</i>

chr3	62358980	62359677	*	6	0.030509531	0.007785329	0.001299736	FEZF2
chr15	51398063	51398559	*	4	0.030517064	0.022313985	-0.002196713	TNFAIP8L3
chr5	132362086	132362900	*	10	0.030527289	-0.019462491	-0.005812187	ZCCHC10
chr7	175423	175713	*	3	0.030527289	0.021075591	0.010839824	NA
chr14	91770052	91770418	*	4	0.030540656	0.01609889	0.007758082	CCDC88C
chr7	98424185	98424289	*	3	0.03054397	-0.028813037	-0.025140263	NA
chr6	80816077	80816322	*	8	0.030551307	-0.009871442	-0.001573831	BCKDHB
chr3	51749782	51749897	*	4	0.030551307	0.020297444	0.012384295	GRM2
chr19	52207200	52207792	*	8	0.030562383	0.009054088	-0.001230815	SPACA6
chr19	46094809	46095562	*	5	0.030602291	0.025870524	0.006925277	GPR4;OPA3
chr20	43540202	43540309	*	3	0.030606563	-0.023420126	-0.016595714	PABPC1L
chr17	9479058	9479665	*	9	0.030643841	-0.018608822	-0.002935117	CFAP52;STX8
chr12	53574537	53574937	*	5	0.030663154	0.013005645	0.000655225	CSAD;ZNF740
chr20	61590751	61591066	*	3	0.03067276	-0.048455427	-0.045342149	SLC17A9
chr4	117847088	117847545	*	4	0.030752861	0.016344772	0.011076481	NA
chr8	125384727	125384848	*	3	0.030752861	0.013864045	0.005223416	TMEM65
chr20	23401804	23402586	*	11	0.030773428	-0.008394252	-0.002098262	NAPB
chr1	59250642	59250966	*	7	0.030774043	0.012708329	0.005214965	JUN;LINC01135
chr6	29894940	29895260	*	8	0.030789462	-0.061304133	-0.02246705	HCG4B;HLA-G;HLA-H;HLA-J
chr19	12551876	12552341	*	5	0.030789462	0.016735295	0.000626181	ZNF443
chr6	91053343	91054324	*	3	0.03080384	0.017972612	0.005893401	NA
chr12	55378169	55378884	*	7	0.030828286	-0.017547797	-0.005574284	TESPA1
chr16	4837760	4838530	*	6	0.030829925	0.020044853	0.009022516	SEPTIN12;SMIM22
chr4	114683176	114683375	*	5	0.03084226	-0.030225283	-0.005726198	CAMK2D
chr6	45631106	45631407	*	4	0.030869353	0.013200907	0.011047917	NA
chr11	118530412	118530628	*	3	0.030914209	-0.018801083	-0.012274285	TREH
chr1	63787170	63787283	*	4	0.030937239	0.036512572	0.014372139	FOXD3;LINC00466
chr15	66796922	66797614	*	9	0.030940556	-0.026362539	-0.006667629	RPL4;SNORD16;SNORD18A;SNORD18B;SNORD18C;ZWILCH
chr7	105662697	105662884	*	3	0.03097759	-0.017180499	-0.011501154	CDHR3
chr3	194934291	194934653	*	3	0.031009583	0.016238869	0.003581092	XXYL1
chr14	105881346	105881968	*	3	0.031035282	0.009609438	0.002960075	MTA1
chr19	45884900	45886078	*	5	0.031061712	0.033513054	0.017663118	PPR1R13L
chr5	10485347	10485736	*	3	0.031066211	-0.016323517	-0.012686585	NA
chr21	32255112	32255313	*	3	0.031102072	0.024653589	0.007135673	KRTAP11-1
chr14	35098784	35099524	*	8	0.031127331	0.016592966	0.001641891	SNX6
chr19	10613180	10613553	*	6	0.031127331	0.00810497	0.001395361	KEAP1
chr1	53067365	53067832	*	4	0.031127331	0.018956473	0.008803736	GPX7
chr2	44065964	44067042	*	10	0.031145145	0.02185351	0.003292802	ABCG5;ABCG8
chr2	225450612	225450859	*	3	0.031168276	-0.007193798	-0.001430755	CUL3
chr17	39769012	39769294	*	5	0.031189314	-0.020195204	-0.006987253	JUP;KRT16
chr14	104643224	104643907	*	4	0.031197156	0.017507297	0.009883217	KIF26A
chr4	119809687	119810066	*	9	0.031209407	-0.01648762	-0.007696774	SYNPO2
chr21	43823604	43824262	*	10	0.031232305	-0.022285005	-0.010665385	UBASH3A
chr5	3602558	3603280	*	3	0.031232391	-0.024176417	-0.014273102	NA
chr7	149120109	149120687	*	4	0.031256651	0.023025757	0.002451422	NA
chr7	143017866	143018410	*	5	0.031289791	-0.015676343	0.005101362	CLCN1
chr2	95663959	95664359	*	4	0.031308829	-0.01781282	-0.011087972	NA
chr7	79083635	79084166	*	10	0.031315105	-0.017150916	-0.007516171	MAGI2;MAGI2-AS3
chr11	557273	557803	*	5	0.031336459	0.030156541	0.013111688	LMNTD2;RASSF7
chr14	54082109	54082227	*	3	0.031346729	-0.023278997	-0.01110378	NA
chr13	31039577	31040351	*	9	0.031364733	-0.019097619	-0.005948374	HMGB1
chr1	57111122	57111499	*	4	0.031391159	-0.024419417	-0.008055676	PRKAA2
chr14	21092936	21094481	*	7	0.03140627	0.0249397	0.006519761	NA
chr17	38717206	38717275	*	3	0.031435204	-0.023638299	-0.017741396	CCR7
chr20	36932377	36932553	*	5	0.031450546	-0.014136786	-0.007631805	BPI
chr7	23508189	23508734	*	4	0.031468141	-0.008834215	-0.001379758	IGF2BP3
chr7	734765	734968	*	3	0.031483399	0.016368381	0.01048164	PRKAR1B
chr16	89132868	89133406	*	4	0.031489845	0.014733402	0.00433511	NA
chr21	34907001	34907910	*	3	0.031491404	0.015136959	0.003988023	GART
chr1	33283384	33283867	*	7	0.031505976	-0.012342326	-0.002475688	S100PPP;YARS1
chr5	153865895	153866216	*	3	0.031510577	-0.01201226	-0.010142184	NA
chr11	47664006	47664550	*	10	0.031534868	0.014220055	0.001106558	MTCH2
chr17	46622154	46622817	*	9	0.031562434	0.019691966	0.006201643	HOXB-AS1;HOXB2
chr7	155674731	155675480	*	4	0.031562434	0.035306729	0.015630866	NA
chr16	88850218	88850755	*	3	0.03159997	0.012162399	0.006268679	PIEZO1
chr14	76734327	76734850	*	6	0.031628444	-0.04300609	-0.020972573	NA

chr10	132461229	132461281	*	3	0.031645606	0.026774429	0.013764381	NA
chr12	39115589	39116462	*	4	0.031657122	-0.024212078	0.002803964	CPNE8
chr22	19928616	19929286	*	11	0.031699913	0.023962111	-0.000187055	COMT;TXNRD2
chr19	19302345	19303269	*	10	0.031768208	-0.014554204	-0.006391018	BORCS8;BORCSS-MEF2B;RFXANK
chr1	212003977	212004804	*	14	0.031775697	0.011742845	0.000466434	LPGAT1
chr15	89089946	89090510	*	6	0.031775697	0.011497187	-0.003473096	DET1
chr17	73316280	73316721	*	8	0.03183553	0.032284434	0.007843728	GRB2
chr2	95787254	95787596	*	3	0.03184334	-0.016770086	-0.002534724	MRPS5
chr11	31391482	31391912	*	8	0.031855739	-0.029292376	-0.005978775	DCDC1;DNAJC24
chr16	1493343	1493859	*	5	0.031855739	0.028147889	0.015903582	CCDC154
chr6	31674553	31674897	*	3	0.031855739	-0.025082099	-0.001079677	ABHD16A;LY6G6F
chr19	519609	519885	*	3	0.031855739	0.032073561	0.028070296	TPGS1
chr1	150207467	150208087	*	3	0.031871094	-0.018182047	-0.005294488	ANP32E
chr17	38973872	38974206	*	3	0.03189763	-0.014998887	-0.012339542	TMEM99
chr5	147647678	147647955	*	3	0.031906616	0.029191575	0.00867258	SPINK13
chr22	51016839	51017432	*	9	0.031908124	0.026858066	0.016977349	CHKB;CHKB-CPT1B;CHKB-DT;CPT1B
chr19	32896872	32897255	*	7	0.031910443	-0.01254897	-0.002429017	DPY19L3;LOC400684
chr11	68192511	68192736	*	4	0.031918024	0.020285565	0.015002548	LRP5
chr5	179771539	179771851	*	3	0.031940677	0.018063718	0.013408206	GFPT2
chr19	54134711	54135150	*	6	0.031942503	0.025038705	0.011408307	DPRX
chr2	200333445	200334137	*	5	0.031950281	0.019919129	0.002597025	SATB2;SATB2-AS1
chr7	127983655	127984071	*	9	0.031979787	-0.050290391	-0.007134812	RBM28
chr11	1241885	1242427	*	4	0.032033451	0.011391057	0.005290052	MUC5B
chr10	101295724	101296221	*	4	0.032057425	0.028047267	0.016230261	NKX2-3
chr8	17941088	17941982	*	8	0.032097699	-0.010835641	-0.000714329	ASAH1
chr19	44084271	44084933	*	6	0.03209998	0.021660499	0.014324692	PINLYP;XRCCI
chr17	13504399	13504687	*	4	0.032109751	-0.019806991	-0.006510591	HS3T3A1
chr4	175132842	175133103	*	3	0.032109751	-0.00915772	-0.008311281	NA
chr7	7605808	7606396	*	4	0.032111552	0.012840488	0.001029126	MIOS
chr19	48949061	48949463	*	4	0.032111611	-0.008133895	-0.005316061	GRWD1
chr12	45269992	45271935	*	21	0.03213021	0.033339867	0.001840688	NELL2
chr10	98741495	98741960	*	4	0.032172344	0.015910795	0.000122475	LCOR
chr7	100809985	100810273	*	3	0.032172344	-0.012903946	-0.005857474	VGf
chr4	6694923	6695698	*	9	0.032180016	-0.015350401	-0.006102305	S100P
chr10	80126725	80127261	*	5	0.032213325	0.030442394	0.010001399	LINC00595;LINC00856
chr16	4898226	4898667	*	6	0.032216268	0.015205145	0.000925856	GLYR1;UBN1
chr20	45439769	45440228	*	4	0.032216403	-0.026880026	-0.003211895	NA
chr1	36689760	36690560	*	9	0.032261972	-0.004319152	-0.001381293	THRAP3
chr16	67360520	67361708	*	9	0.032273908	-0.019828364	-0.008416368	KCTD19;LRRC36
chr6	33273011	33273128	*	3	0.032280072	-0.021091579	-0.008673458	TAPBP
chr18	47807503	47807700	*	4	0.032307788	-0.018733274	-0.013168314	MBD1
chr13	43294435	43294719	*	3	0.032355523	-0.035117227	-0.021245479	NA
chr2	583872	583975	*	3	0.032376731	0.024731418	0.011848212	NA
chr6	100442489	100442603	*	3	0.032382065	-0.030390039	-0.022949817	MCHR2;MCHR2-AS1
chr1	205391381	205391881	*	4	0.032402854	-0.017082981	-0.005152855	LEMD1
chr17	38975396	38975449	*	3	0.03242678	-0.026014292	-0.018462941	KRT10;TMEM99
chr2	86831057	86831407	*	3	0.032438597	-0.023188175	-0.009352716	RNF103;RNF103-CHMP3
chr10	133999471	134000009	*	3	0.032440967	-0.014200207	-0.008838411	DPYSL4
chr15	67706106	67706575	*	3	0.032460914	0.02520781	0.000999272	IQCH;IQCH-AS1
chr2	101434611	101435167	*	3	0.032482214	-0.016987834	-0.000530411	NPAS2
chr14	61448125	61448281	*	4	0.032483559	-0.0066312199	-0.003588241	SLC38A6;TRMT5
chr14	70883772	70883883	*	4	0.032510986	-0.039152484	-0.013135409	SYNJ2BP;SYNJ2BP-COX16
chr10	134362678	134363419	*	4	0.03255435	0.020644989	0.008791729	INPP5A
chr17	39642907	39643395	*	3	0.032557103	-0.02268652	-0.012222057	KRT36
chr17	72879418	72879892	*	3	0.032561408	-0.012324163	-0.004300171	FADS6
chr6	138820503	138820840	*	3	0.032577511	-0.014266708	-0.009157631	NHSL1
chr8	103424275	103424477	*	3	0.032585911	-0.006444095	-0.00080643	UBR5
chr11	71814220	71814729	*	10	0.032595071	0.009802243	-0.00181854	LAMTOR1;LRTOMT
chr1	236246704	236247215	*	3	0.03261184	0.028147033	0.002360012	NA
chr12	109162390	109162748	*	6	0.03263087	0.016672376	0.005434378	NA
chr15	39887718	39888093	*	3	0.032656729	0.007877939	0.001720259	THBS1
chr8	145137755	145138225	*	6	0.032689114	-0.009072529	0.001262262	GPAA1
chr4	54243303	54243829	*	9	0.032690018	-0.022458462	-0.005180041	FIP1L1;PDGFRA
chr5	121647154	121647642	*	7	0.032703463	-0.034498925	-0.011862445	SNCAIP
chr2	242926331	242926621	*	3	0.032734989	0.013604119	0.012526101	NA
chr15	29424197	29424512	*	3	0.032828444	-0.020646733	-0.00925718	FAM189A1

chr19	1242098	1242323	*	3	0.032833718	0.019310409	0.008244108	ATP5F1D;CBARP
chr16	84150400	84150746	*	7	0.032854842	-0.019089346	-0.004521305	MBTPS1
chr1	2262232	2262474	*	3	0.032859704	0.018516872	0.009328395	MORN1
chr2	105472193	105472469	*	3	0.032958447	-0.018964875	-0.002762663	PANTR1;POU3F3
chr2	208489070	208489448	*	7	0.032958983	-0.009786126	-0.001170491	METTL21A
chr19	49991271	49991852	*	5	0.032968407	-0.007938361	-0.003045593	RPL13A;SNORD32A;SNORD33;SNORD34;SNORD35A
chr2	241458886	241459227	*	4	0.032975491	-0.028119053	-0.018664044	ANKMY1
chr11	65189075	65189896	*	4	0.032975491	-0.007178553	-0.001867598	NEAT1
chr19	50192542	50192739	*	3	0.032987205	0.02755296	0.020178553	ADM5;CPT1C
chr5	146568193	146568702	*	4	0.032990514	-0.01229483	-0.004496016	NA
chr14	77923881	77924595	*	12	0.033019295	-0.008432674	-0.000820279	AHSA1;VIPAS39
chr2	101086756	101086963	*	4	0.033032183	-0.019701846	-0.002310254	NMS
chr2	61403867	61405051	*	11	0.033033674	-0.013975274	-0.003401434	AHSA2P
chr3	48541379	48541507	*	3	0.03303852	0.010357231	0.007390297	SHISA5
chr13	37006063	37006439	*	8	0.033081971	-0.013208198	-0.005473948	CCNA1
chr1	27719310	27719463	*	3	0.033095909	0.011977958	-0.001138383	GPR3
chr19	46498049	46498389	*	7	0.033109637	-0.012632539	-0.004430401	CCDC61
chr1	23894390	23894902	*	4	0.033112162	-0.023049902	-0.011023078	NA
chr3	122640625	122640935	*	3	0.033190012	-0.018553507	-0.0116565145	SEMA5B
chr13	27580727	27580970	*	4	0.033214503	-0.034505058	-0.016424029	NA
chr9	14992085	14992232	*	3	0.033227936	-0.037264126	-0.020375954	LOC389705
chr20	51109896	51110040	*	3	0.033234018	-0.015847481	-0.00878205	NA
chr11	75901632	75902270	*	3	0.0332497	-0.027081932	-0.005879633	WNT11
chr6	157469646	157470150	*	5	0.033250046	-0.014501562	-0.006798926	ARID1B
chr14	21511112	21511676	*	3	0.033263743	0.016104836	0.011362524	NDRG2;RNASE7
chr3	184880078	184880944	*	7	0.033265683	0.022928818	0.00415158	EHHADH-AS1
chr9	16277012	16277601	*	3	0.033265964	0.017990456	0.011671252	C9orf92
chr2	121992375	121992797	*	3	0.033276534	-0.015126659	-0.006418228	TFCP2L1
chr15	100939779	100940134	*	3	0.033316932	-0.018002308	-0.006577861	NA
chr17	73761301	73761710	*	9	0.033323493	-0.02649213	-0.00546209	GALK1
chr7	27149139	27150403	*	5	0.033330975	0.027305897	0.01346367	HOXA3
chr10	105036495	105036863	*	8	0.033331061	0.008864659	-0.000156398	INA
chr11	108337942	108338461	*	10	0.03334832	-0.0116472	-0.002966107	C11orf65
chr10	3823790	3824555	*	7	0.03334832	0.018487117	0.010873415	KLF6
chr4	139345773	139345911	*	3	0.03334832	0.021184725	0.014205785	NA
chr17	80289437	80289701	*	5	0.033377844	0.023551132	0.014475124	SECTM1
chr12	48197060	48197491	*	3	0.033381285	-0.020954724	-0.016547803	HDAC7
chr16	69354837	69355091	*	5	0.033392185	0.01413665	0.007890717	VPS4A
chr22	41939981	41940480	*	5	0.033410441	-0.030956328	-0.003758143	POLR3H
chr4	83483483	83483735	*	5	0.033415608	0.011556689	0.001707628	TMEM150C
chr11	22696087	22696443	*	4	0.033453453	0.022600951	0.003125727	GAS2
chr8	41654331	41654557	*	3	0.033495921	0.022294392	0.014230371	ANK1
chr20	45179226	45179413	*	5	0.033522866	-0.013370147	-0.008482843	OCSTAMP
chr12	93963292	93963396	*	4	0.03355116	-0.030855695	-0.007538985	SOC32;SOC32-AS1
chr8	143210309	143210482	*	3	0.033552254	-0.023371334	-0.018626772	NA
chr1	109656145	109656325	*	4	0.033560883	0.019670595	0.003067586	C1orf194;ELAPORI
chr17	18163183	18163513	*	3	0.033566861	-0.010200092	-0.000505621	FLII;MIEF2
chr3	6003083	6003401	*	3	0.033598188	0.021458646	0.000607768	NA
chr2	74212731	74212961	*	3	0.033599797	-0.010393677	-0.005987409	TET3
chr18	47341300	47341307	*	3	0.033600662	-0.01487054	-0.01165083	ACAA2
chr10	114711288	114712217	*	5	0.033649612	-0.020274013	-0.007167963	TCF7L2
chr7	150872023	150872218	*	3	0.033649612	-0.029302973	-0.020509235	NA
chr15	76440405	76440448	*	3	0.033650295	-0.038916548	-0.022120532	TMEM266
chr6	32363121	32363268	*	4	0.033654471	-0.020512706	-0.005303117	BTNL2
chr21	46876385	46876904	*	3	0.033673455	0.027442978	0.009200032	COL18A1
chr2	234741670	234741841	*	3	0.033675342	0.024147213	0.015255563	NA
chr17	80809619	80809670	*	3	0.033698311	0.017700303	0.010581398	TBCD
chr2	130345044	130345405	*	4	0.033699129	-0.031422881	-0.020194978	NA
chr5	68788469	68788497	*	4	0.03370325	-0.010970489	-0.008061541	OCLN
chr7	157932168	157932715	*	4	0.033732755	-0.03276976	0.004004633	PTPRN2
chr17	71160748	71161160	*	5	0.033780323	-0.010167201	-0.00699832	SSTR2
chr19	37099006	37099702	*	4	0.033787769	-0.012530152	-0.004058204	ZNF382;ZNF529
chr5	76382539	76383494	*	12	0.033857849	-0.01217975	-0.001871147	ZBED3;ZBED3-AS1
chr17	2240844	2241027	*	4	0.033866535	-0.006961218	-0.003057638	SGSM2;TSR1
chr1	1689452	1689887	*	3	0.033866535	-0.028180615	-0.010058138	NADK
chr19	36499326	36499839	*	5	0.033868387	0.023123096	0.013912677	SYNE4

chr19	1287428	1287884	*	3	0.033868387	0.02628147	0.017964915	EFNA2
chr10	11047269	11047586	*	6	0.03390863	-0.029282379	-0.005132967	CELFP2
chr15	66546648	66546713	*	3	0.033922525	-0.011973978	-0.008323357	MEGF11
chr11	68768879	68769194	*	3	0.033923519	0.017912588	0.007486966	NA
chr6	150921939	150922227	*	4	0.033935481	0.007800496	0.004006551	PLEKHG1
chr17	1385559	1385822	*	3	0.033950387	0.01286082	0.004854165	MYO1C
chr4	54931064	54931210	*	4	0.033952915	-0.008932937	-0.004035985	CHIC2;PDGFRA
chr1	212606756	212607111	*	3	0.033957561	0.010881202	0.00717468	NENF
chr16	279345	279746	*	9	0.03395803	0.028301403	0.006849952	LUC7L
chr17	1478463	1479213	*	5	0.033973831	-0.016047354	-0.005455974	SLC43A2
chr11	130184747	130185384	*	9	0.034006286	0.031013168	0.001693557	ZBTB44
chr1	24974498	24974715	*	3	0.03401115	0.030067818	-0.000491292	SRRM1
chr2	7171869	7172297	*	7	0.034027447	-0.012077267	-0.003506177	RNF144A
chr8	144631524	144631921	*	6	0.034046555	0.027008864	0.017783008	GSDMD
chr1	154151169	154151980	*	5	0.034046555	0.030726322	0.015524666	TPM3
chr13	112720427	112720927	*	4	0.034060188	-0.006911178	-0.00077239	SOX1
chr12	31742448	31743367	*	7	0.034061562	-0.019739206	-0.007197851	DENND5B;DENND5B-AS1
chr8	52811707	52812171	*	10	0.034081565	0.00597347	0.000582498	PCMTD1
chr19	17559384	17559666	*	7	0.034114897	-0.016780646	-0.008648346	TMEM221
chr1	109506658	109506963	*	4	0.034115288	-0.020847655	-0.009283361	AKNAD1;CLCC1
chr14	93813495	93813777	*	5	0.034175987	0.023883697	0.013052708	COX8C;UNC79
chr18	47866348	47866831	*	6	0.034187498	0.021095508	0.009098701	NA
chr18	268031	268453	*	9	0.034193997	0.006577647	0.00135564	THOC1
chr10	5932453	5932700	*	3	0.034198204	-0.03173348	-0.020061614	ANKRD16;FBH1
chr20	4990973	4991394	*	3	0.034216352	0.020517076	0.017973112	SLC23A2
chr8	54164879	54165363	*	3	0.03423453	-0.024667279	-0.016233213	OPRK1
chr20	18122816	18123352	*	6	0.034236459	0.016031096	0.003575625	KAT14;PET117
chr16	48269424	48269819	*	4	0.034289759	0.022516935	0.006575337	ABCC11;MIR548AE2
chr10	118935095	118935377	*	3	0.034295232	-0.007149036	-0.002428187	NA
chr19	19026245	19026362	*	3	0.034295232	0.022627962	0.006132459	COPE;DDX49;HOMER3
chr17	4643257	4643401	*	6	0.034322252	0.027878222	0.007200809	CXCL16;ZMYND15
chr17	71189054	71189320	*	6	0.034322252	0.031051497	0.013415092	COG1
chr5	1556703	1556929	*	3	0.03433844	0.02111823	0.012637353	NA
chr2	110371593	110371903	*	11	0.034338997	-0.024313248	-0.012698151	SEPTIN10;SOWAHC
chr10	6245036	6245271	*	4	0.034354212	0.006938824	0.003405947	PFKFB3
chr2	131089926	131090346	*	4	0.034358891	-0.031535977	-0.014061915	NA
chr16	88941173	88941576	*	4	0.034369126	0.0230685	0.010829094	CBFA2T3
chr2	99771159	99771627	*	11	0.034400191	-0.008622308	-0.00186646	LIPT1;MRPL30;TSGA10
chr6	142409323	142409831	*	5	0.034429475	0.020092772	0.004458836	NMBR
chr17	71365482	71366201	*	5	0.034463255	-0.022123244	-0.004331205	SDK2
chr11	62539321	62539719	*	3	0.034488457	0.016730447	0.01001377	TAF6L
chr1	10363631	10364025	*	3	0.034501163	-0.020126839	-0.007881082	KIF1B
chr3	168865089	168865475	*	4	0.034501878	-0.023331771	-0.011698243	MECOM
chr6	12716655	12717192	*	6	0.034512562	-0.020461627	-0.000911256	PHACTR1
chr7	96635624	96636192	*	4	0.034528177	-0.01172691	-0.0081055	DLX6;DLX6-AS1
chr11	36296196	36296397	*	4	0.03453386	0.022195329	0.008781222	COMMD9
chr6	30094960	30095419	*	19	0.034539689	0.027461791	0.014957476	NA
chr9	109040403	109040631	*	4	0.034556152	0.024611843	0.007841506	NA
chr16	67427183	67427811	*	13	0.034569863	-0.020074078	-0.006487284	TPPP3
chr2	70528671	70529197	*	4	0.03457531	-0.029866479	-0.004753146	FAM136A
chr3	194304935	194305124	*	4	0.034578632	0.017582992	0.000737028	TMEM44-AS1
chr19	18901666	18902221	*	10	0.034580551	0.016273381	-0.004042353	COMP
chr9	92316223	92316413	*	3	0.03458333	0.007792879	0.001065904	UNQ6494
chr4	115519436	115519920	*	7	0.034605325	-0.017947249	-0.007698623	UGT8
chr11	65639579	65639869	*	3	0.034628385	0.015514264	0.011218007	EFEMP2
chr1	202857904	202858430	*	9	0.03464046	-0.010966572	-0.000756578	RAB1F
chr14	102695264	102695515	*	5	0.034649556	0.0207039	0.008064817	MOK
chr9	71940287	71940578	*	3	0.034650961	-0.008200627	-0.005417649	FAM189A2
chr2	217277275	217277648	*	8	0.034688316	0.013797453	0.001195219	SMARCAL1
chr3	178789226	178789848	*	10	0.034701332	-0.034327052	-0.005347467	ZMAT3
chr20	48658164	48658258	*	4	0.034754441	-0.01652776	-0.01018811	TRERNAI
chr19	35531150	35531417	*	7	0.034755595	-0.010601989	-0.005333176	HPN;SCN1B
chr4	6203560	6203869	*	4	0.034757075	-0.020129241	0.00395011	JAKMIP1;LINC02495
chr6	43251876	43252017	*	3	0.034768545	0.021728054	0.011818079	TTBK1
chr6	64308512	64308590	*	3	0.034780408	-0.011859268	-0.009081478	NA
chr8	145114875	145115260	*	3	0.034793277	0.036593828	0.026824094	OPLAH

chr1	10489962	10490346	*	9	0.034798849	0.03189052	0.00822146	CENPS:CENPS-CORT
chr6	33588875	33590458	*	10	0.034814199	0.019768548	0.000438635	ITPR3
chr10	1507138	1508061	*	3	0.034825588	-0.034038597	-0.001976043	ADARB2
chr20	44509606	44509853	*	9	0.034827411	-0.019814534	-0.007516642	ZSWIM1
chr22	45899292	45899736	*	3	0.034831596	0.015293529	0.011026696	FBLN1
chr9	91933073	91933654	*	8	0.034841776	0.007034089	-0.001589019	SECSBP2
chr10	1692910	1693107	*	3	0.034879398	-0.025814451	-0.009681801	ADARB2
chr6	32159527	32159607	*	3	0.034887265	0.023923915	0.014727447	GPSM3:PBX2
chr8	23540828	23541309	*	5	0.034901573	0.011510652	3.31E-05	NKX3-1
chr6	109169469	109169698	*	5	0.034905614	0.00759714	0.002461285	ARMC2
chr1	177134087	177134454	*	8	0.034925713	-0.021459633	-0.005815339	ASTN1
chr13	114311898	114312327	*	3	0.034945574	0.038928483	0.01619034	ATP4B
chr17	34957477	34957969	*	8	0.034951396	-0.010082446	-0.00270135	MRM1
chr17	80898525	80899158	*	5	0.035003328	0.026246739	0.011898921	TBCD
chr5	10251089	10251252	*	3	0.035023794	0.004475199	-0.000143412	ATP5CKMT:CCT5
chr7	2250248	2250448	*	3	0.035060278	-0.011588287	-0.000808657	MAD1L1
chr11	6592066	6592585	*	4	0.035060323	0.04489839	0.039528971	DNHD1
chr6	10723028	10723588	*	10	0.035066652	-0.007841981	-0.002477207	TMEM14C
chr2	27294264	27295120	*	9	0.035067952	-0.00768369	-0.003121762	OST4
chr1	181056912	181057362	*	4	0.035067952	0.023195367	0.011920802	IER5
chr19	36630557	36631318	*	11	0.035071429	-0.006970624	-0.000428136	CAPNS1
chr19	54368958	54369133	*	4	0.035109952	0.017438887	0.009664098	MYADM
chr2	121257646	121257734	*	3	0.035145893	0.016774076	0.011504554	NA
chr2	214148664	214149035	*	9	0.035173147	-0.014707615	-0.001101592	SPAG16:SPAG16-DT
chr20	34544049	34544356	*	4	0.035200375	0.023625009	0.005520503	SCAND1
chr5	137474700	137474905	*	3	0.035223395	-0.0237452	-0.013504239	NME5
chr4	3208639	3209105	*	3	0.035225095	0.01998449	0.008405128	HTT
chr10	126303604	126303795	*	3	0.035225219	0.036070239	0.019619438	NA
chr12	4417093	4417170	*	3	0.035242787	0.031931196	0.031843467	NA
chr20	62367108	62367632	*	4	0.035276202	-0.026454851	-0.00912489	LIME1:SLC2A4RG:ZGPAT
chr13	113803336	113803579	*	3	0.035283249	-0.015998867	0.000799309	F10
chr1	986560	987502	*	6	0.035286791	0.010969569	0.002162574	AGR1
chr2	200336014	200336200	*	4	0.035293459	-0.007041066	-0.00101874	SATB2:SATB2-AS1
chr17	38020599	38021496	*	5	0.035302436	0.027732045	0.003741104	IKZF3:ZBP2
chr7	75624427	75624848	*	5	0.035328208	0.02274275	0.009998919	TMEM120A
chr11	40315337	40315861	*	4	0.035340202	-0.034060722	-0.018763295	LRRC4C
chr10	125034571	125034818	*	3	0.035340202	-0.014143954	-0.011445446	NA
chr11	123986026	123986166	*	9	0.035343837	-0.011352545	-0.002440744	VWASA
chr8	1847999	1848614	*	4	0.035344524	-0.024547229	-0.015193665	ARHGEF10
chr7	4245377	4245514	*	3	0.035368176	-0.013473574	-0.004427342	SDK1
chr1	246859889	246860416	*	5	0.035368559	0.044586377	0.021667662	NA
chr1	16693479	16693683	*	8	0.035392487	0.015165648	0.001653893	SZRD1
chr4	157891938	157892087	*	3	0.035421546	-0.005727198	-0.004321825	PDGFC
chr1	104068093	104068301	*	6	0.035425005	-0.010999177	-0.006744231	RNPC3
chr14	21539025	21539444	*	7	0.035433965	0.030940122	0.002582058	ARHGEF40:NDRG2
chr3	194783274	194783413	*	5	0.035433965	0.016521073	0.007168374	NA
chr17	34087153	34087579	*	3	0.035447454	0.014367219	0.012622133	C17orf50:MMP28
chr6	100016130	100016838	*	10	0.035449628	-0.010840884	-0.002355626	CCNC:TSTD3
chr20	62439117	62439296	*	5	0.035457325	0.030109035	0.016225549	ZBTB46
chr7	1216824	1216933	*	3	0.035470037	-0.052435105	-0.034609304	NA
chr11	1229901	1230144	*	4	0.035520074	0.017697343	0.012608602	MUC5B
chr1	115824285	115824630	*	3	0.035526447	0.022653339	0.011204919	NA
chr17	37783220	37784024	*	7	0.035590389	0.011462848	-0.000425657	PPP1R1B
chr6	36561383	36561606	*	3	0.035610802	0.009933741	0.001398222	SRSF3
chr5	140571882	140572039	*	5	0.035613518	-0.023358136	-0.010118373	PCDH10
chr16	56224901	56225059	*	4	0.035632751	-0.01888388	-0.013919621	GNAO1:LOC283856
chr19	3720612	3721383	*	4	0.035643269	-0.026542461	-0.008969686	TIP3
chr11	1273661	1274140	*	4	0.035647742	0.020412121	0.012188679	MUC5B
chr4	76751599	76751767	*	3	0.035647742	-0.021547102	-0.005246575	NA
chr10	13771383	13771465	*	3	0.035707183	-0.013012982	-0.006620504	FRMD4A
chr12	7126735	7126979	*	3	0.035713061	0.021737195	0.001909673	C1S:LPCAT3
chr8	41507621	41508117	*	4	0.035714616	0.016909715	0.012721163	NKX6-3
chr14	54687160	54687202	*	3	0.035739903	-0.006212946	-0.004825191	NA
chr1	176998778	176999034	*	4	0.035764341	0.016482837	0.004461356	ASTN1:MIR488
chr7	152591581	152592038	*	6	0.035778056	-0.034431066	-0.003467763	NA
chr21	37757070	37757883	*	10	0.035781809	-0.021084523	-0.002390941	CHAF1B

chr9	112542443	112542779	*	4	0.035789457	0.024241895	0.001925971	PALM2AKAP2
chr13	45885891	45886303	*	3	0.035790202	-0.012744119	-0.008230611	NA
chr6	28792778	28793329	*	4	0.035798796	0.011136555	-0.000623326	NA
chr11	393648	394262	*	6	0.035820795	0.016299785	0.006441082	PKP3
chr1	78354224	78354382	*	4	0.035824109	-0.009180138	-0.006442231	NEXN
chr11	67007442	67007811	*	11	0.035826951	-0.020881006	-0.007891354	KDM2A
chr1	156828693	156829287	*	8	0.035857152	0.02269278	0.01086185	INSRR;NTRK1
chr8	67089388	67089599	*	3	0.035873755	-0.017883359	-0.013291496	CRH
chr1	3623102	3623605	*	4	0.035887896	0.019357298	0.012985115	TP73
chr2	231809311	231809697	*	5	0.035898325	-0.025404896	-0.001569988	GPR55
chr7	194861	195478	*	3	0.035898325	0.009265471	0.005453825	FAM20C
chr6	84569161	84569456	*	8	0.035903712	0.007470382	0.001022857	CYB5R4
chr11	111700061	111700634	*	3	0.035915338	0.013309487	0.003652924	ALG9
chr19	41304072	41304468	*	5	0.035916515	0.005267464	-0.00069074	EGLN2;RAB4B-EGLN2
chr11	63656088	63656342	*	4	0.035938015	-0.008913699	-0.005673842	MARK2
chr8	30891077	30891773	*	17	0.035944843	-0.017920558	-0.006402376	PURG;WRN
chr1	114522498	114522670	*	3	0.03597632	-0.01614182	-0.00747423	OLFML3
chr3	4534791	4535154	*	9	0.035979815	-0.014542472	-0.001624929	ITPR1
chr2	190526173	190526769	*	5	0.036007187	-0.005029545	-0.002880966	ASNSD1
chr9	112810400	112810803	*	5	0.036020503	0.010484564	0.002484217	PALM2AKAP2
chr12	16430768	16431562	*	5	0.036033283	-0.028784786	-0.002164935	SLC15A5
chr9	135465030	135465435	*	3	0.036041311	-0.017736345	-0.001740105	BARHL1
chr13	25745406	25745784	*	3	0.036054797	-0.010685948	-0.008277758	AMER2
chr11	69590282	69590332	*	4	0.036060716	-0.018873329	-0.009505968	FGF4
chr10	134956217	134956411	*	3	0.036096598	0.019391849	0.016555187	NA
chr6	136847105	136848313	*	9	0.036120983	-0.034200254	-0.009633014	MAP7
chr16	73092391	73093652	*	9	0.036170754	-0.014016527	0.000547918	ZFX3
chr8	10966192	10966251	*	3	0.036191093	-0.016682031	-0.006129888	XKR6
chr9	35102784	35103350	*	6	0.03619251	0.016410327	0.003772287	STOML2
chr12	12491411	12491924	*	4	0.03619251	0.014832149	-0.00153236	MANSC1
chr6	31599751	31600351	*	8	0.036199224	0.015661094	0.000216932	PRRC2A
chr9	129375812	129376185	*	4	0.036206423	-0.016868553	-0.006541065	LMX1B
chr3	11293681	11294225	*	5	0.036274062	0.035091051	0.022274804	HRH1
chr10	134222053	134222581	*	5	0.036286722	-0.01941357	-0.012341209	PWWP2B
chr13	53419596	53419729	*	3	0.036293393	0.024050506	0.014388008	PCDH8
chr5	443987	444228	*	3	0.036335382	-0.023327137	0.000327619	EXOC3;EXOC3-AS1
chr8	41556933	41557710	*	3	0.036354938	0.022326203	0.016856625	ANK1;NKG6-3
chr1	236306311	236306767	*	3	0.036380464	-0.007047128	-0.000799739	GPR137B
chr17	77766335	77766817	*	3	0.036382756	0.018851863	0.013790929	NA
chr12	4274034	4274683	*	4	0.036410815	0.013720722	0.00737194	NA
chr1	201708419	201708558	*	4	0.036413515	-0.027654112	-0.015500358	NAV1
chr7	123673679	123673926	*	5	0.036428761	-0.024290402	-0.010420956	TMEM229A
chr6	32157150	32157230	*	3	0.036431566	-0.013239187	-0.00927794	PBX2
chr17	30469102	30469339	*	8	0.03645618	-0.007916241	-0.000761421	RHOT1
chr2	2617199	2617432	*	3	0.036460196	-0.028843588	-0.015327968	NA
chr14	99707721	99708104	*	3	0.036496669	-0.030147778	-0.001808633	BCL11B
chr19	10514734	10515211	*	3	0.036526801	0.003615476	0.002757413	CDC37;MIR1181
chr17	38295894	38296698	*	10	0.036541002	-0.014174909	-0.004088793	CASC3
chr12	108954266	108954532	*	4	0.03655175	-0.003925679	-0.001609284	ISCU;SART3
chr8	70404514	70405008	*	8	0.036582802	-0.023677599	-0.00397529	SULF1
chr5	73928997	73929069	*	3	0.036582802	0.02101799	0.013574012	ENC1
chr1	201476557	201476775	*	5	0.03661608	0.015177405	0.003942416	CSRP1
chr5	149380656	149381021	*	6	0.036616425	-0.021934305	-0.005236682	HMGXB3;TIGD6
chr7	141438329	141438468	*	5	0.036622252	-0.013697995	-0.0069475	SSBP1;WEE2-AS1
chr17	263705	263921	*	4	0.036705926	-0.007680125	-0.0050688	C17orf97
chr11	57176211	57176720	*	3	0.036712192	0.02480505	0.014916832	PRG2;SLC43A3
chr17	72667005	72667394	*	8	0.03673148	-0.028341132	-0.015959782	RAB37
chr19	9731901	9732542	*	8	0.03673148	-0.031782717	-0.0063766	ZNF561;ZNF561-AS1
chr11	64851426	64851957	*	14	0.036733674	-0.027912699	-0.003147071	CDCAS;ZFP1
chr6	13574034	13574296	*	5	0.036737378	0.020065072	0.000202559	SIRT5
chr19	10370450	10370920	*	3	0.036778598	0.022666472	0.012842032	MRPLA
chr6	10882043	10882326	*	6	0.036828608	0.018241002	-0.00316279	GCM2;SYCP2L
chr2	157292764	157292955	*	6	0.036859061	-0.018341366	-0.010701888	GPD2
chr2	3699195	3699563	*	5	0.036871192	-0.034957004	-0.022503168	NA
chr6	160241519	160241556	*	3	0.036873313	-0.038729886	-0.036039607	PNLDC1
chr2	74880850	74881465	*	10	0.036878925	0.01429135	-0.00271514	SEMA4F

chr2	226264545	226264927	*	4	0.03688575	-0.032580819	-0.015482418	NYAP2
chr6	30594113	30595372	*	19	0.036895238	0.025799461	-0.001669698	ATAT1:MRPS18B
chr10	125617197	125618545	*	6	0.036895292	0.023764407	0.011735039	CPXM2
chr2	218770208	218770270	*	3	0.036905539	-0.011061681	-0.006800919	TNS1
chr12	57481609	57482022	*	4	0.036915666	-0.002980893	-0.00124671	NAB2
chr3	105085519	105086213	*	10	0.036916026	-0.014709871	-0.005137569	ALCAM
chr17	80255419	80256046	*	7	0.0369215	-0.03183407	-0.010485709	NA
chr7	98988566	98988729	*	3	0.036928208	0.018736907	0.005758331	ARPC1B
chr2	219866218	219866816	*	9	0.036939703	-0.030773039	-0.001867786	LOC100129175:MIR375
chr3	137483328	137483617	*	6	0.036942677	-0.017351803	-0.007858822	SOX14
chr1	59165685	59166243	*	6	0.036942677	-0.014689588	-0.004184715	MYSM1
chr2	28113213	28114044	*	16	0.03700742	0.013132473	0.000755084	BABAM2:BABAM2-AS1:RBKS
chr5	76114812	76114933	*	3	0.037037233	0.009316297	0.006753573	F2RL1
chr22	19691974	19692540	*	3	0.037048915	0.014397558	0.011843931	NA
chr1	115397374	115397616	*	8	0.03707538	0.046726639	0.020139012	SYCP1
chr1	49224754	49224970	*	7	0.037077132	0.016245845	0.010297357	AGBL4:BEND5
chr4	184679386	184679835	*	4	0.037119827	0.035123747	0.018179442	NA
chr17	77997198	77997453	*	3	0.0371376	0.011648113	0.003824371	TBC1D16
chr11	47546068	47546214	*	5	0.037162734	0.014038767	0.011668269	CELF1
chr17	77076092	77076219	*	3	0.037167448	-0.013392476	-0.000100689	ENGASE
chr12	32831002	32831428	*	3	0.037171018	0.015843407	-0.002243568	DNM1L
chr4	85419768	85420311	*	4	0.037191141	-0.010401692	-0.005096717	NKX6-1
chr17	41174035	41174642	*	7	0.037208933	0.018929597	-0.001276959	RND2:VAT1
chr15	59505941	59506153	*	3	0.037246599	0.030520797	0.004385428	MYO1E
chr3	126752841	126753478	*	4	0.037275623	0.019209509	0.015168811	PLXNA1
chr11	43604758	43604860	*	3	0.037275623	-0.018227704	-0.012351269	NA
chr6	138187482	138187594	*	3	0.037275623	0.007391444	0.004117893	TNFAIP3:WAKMAR2
chr8	145821975	145822119	*	3	0.037282357	-0.013933354	-0.002250844	ARHGAP39
chr22	23605330	23605797	*	5	0.037320259	0.025068901	0.010994312	BCR:FBXW4P1
chr5	137667061	137667555	*	7	0.037341403	-0.005328526	-0.002706958	CDC25C
chr6	166650317	166650404	*	3	0.037345403	-0.015757487	-0.013232869	NA
chr11	130079200	130079565	*	3	0.037345403	0.009370637	0.005586993	ST14
chr17	73584068	73584617	*	6	0.037383557	-0.013006204	-0.002595697	MYO15B
chr15	91259684	91260404	*	7	0.037389341	0.021715369	0.004377145	BLM
chr20	62436995	62437035	*	3	0.0374153	0.025886908	0.015391356	ZBTB46
chr3	126075894	126077046	*	10	0.037427278	0.011696444	-0.000579833	KLF15
chr11	33721903	33722598	*	9	0.037450584	0.017210358	0.004220539	C11orf91
chr19	58693874	58694300	*	3	0.037460613	-0.033415925	-0.013526516	ZNF274
chr11	129034245	129034338	*	3	0.037488827	0.02033089	0.00704237	ARHGAP32
chr18	55816295	55816677	*	3	0.037503481	0.026453151	0.009983188	NEDD4L
chr2	180137570	180137781	*	3	0.037508771	-0.016237459	-0.00982502	NA
chr1	201915757	201915999	*	7	0.037517414	-0.009131453	-0.004664506	LMOD1
chr6	962684	962950	*	3	0.037547269	0.014096747	0.003729113	LINC01622
chr14	51706162	51706980	*	9	0.037555068	0.017011749	-0.002805528	TMX1
chr14	21769105	21770255	*	5	0.037558505	0.022606631	0.000680242	RPGRI1
chr3	46621556	46621936	*	5	0.03756828	0.031174649	0.015985747	LRRC2:TDGF1
chr19	49122488	49123013	*	15	0.037596697	-0.015111036	-0.00298286	RPL18:SPHK2
chr12	52888292	52888480	*	3	0.037605691	-0.021040463	-0.015662297	KRT6A
chr10	133929461	133929736	*	3	0.037605691	0.01579746	0.007651549	JAKMIP3
chr7	79081807	79082417	*	6	0.037629048	-0.01294896	-0.005810011	MAGI2:MAGI2-AS3
chr5	73399492	73399693	*	3	0.037634601	-0.018269208	-0.013913952	NA
chr1	223883793	223884247	*	3	0.037651133	0.02525319	-0.001030928	NA
chr17	57784442	57784854	*	9	0.037664279	0.012879185	0.002609608	PTRH2:VMP1
chr6	19837350	19837743	*	3	0.037673518	-0.012837762	-0.007357873	ID4
chr9	138090360	138090903	*	3	0.037697432	-0.030062128	-0.002770672	NA
chr19	58609269	58610131	*	15	0.037707912	-0.022587863	-0.005323097	ZSCAN18
chr16	21608352	21608593	*	5	0.037710552	-0.028991396	-0.006505551	METTL9
chr7	27178861	27179432	*	5	0.037719578	0.018683235	0.009887425	HOXA-AS3
chr11	121028592	121028969	*	4	0.03772736	0.017675171	0.01282939	TECTA
chr2	113032661	113033173	*	8	0.037731024	-0.010012991	4.18E-05	ZC3H6
chr2	218809254	218810263	*	5	0.037741637	0.016859595	0.003488647	TNS1
chr7	156930564	156931170	*	3	0.037741637	-0.017973461	0.003136415	UBE3C
chr22	44576869	44577265	*	8	0.037748668	-0.015350811	-0.00723702	PARVG
chr7	158243369	158243632	*	3	0.037748668	-0.037118685	-0.018443973	PTPRN2
chr12	104990337	104990555	*	3	0.03777779	0.015352917	0.004386307	CHST11
chr17	80145540	80145575	*	3	0.03778094	0.023303731	0.020251332	CCDC57

chr9	132020949	132021283	*	4	0.037781177	-0.021478248	-0.009301359	NA
chr1	245533472	245533949	*	3	0.037799367	0.01896654	-3.79E-05	KIF26B
chr12	72332386	72332964	*	7	0.037827046	-0.029005023	-0.007282642	TPH2
chr4	110481083	110481312	*	7	0.037827046	0.006390043	0.00087271	MCUB
chr9	12775640	12776046	*	4	0.037827046	-0.012348222	-0.005839385	LURAP1L
chr4	83294070	83294407	*	3	0.03784496	-0.016652366	-0.009489328	HNRNPD
chr5	95768016	95768418	*	3	0.037866085	-0.013561913	-0.007728808	PCSK1
chr19	6590801	6591287	*	6	0.037891808	-0.006200027	-0.002503492	CD70
chr12	51567063	51567310	*	5	0.037891808	-0.027069536	-0.00815965	TFCP2
chr1	8394347	8394401	*	3	0.037899246	0.021138849	0.009167905	SLC45A1
chr7	107220372	107220760	*	5	0.037904708	-0.013911959	-0.004222502	BCAP29
chr20	1873496	1873877	*	3	0.037971031	0.016850485	0.007028727	SIRPA
chr22	19710386	19710712	*	3	0.037971031	0.014379959	0.007165199	SEPT5-GP1BB
chr8	144571936	144572413	*	3	0.037994794	0.021874225	0.012995008	ZC3H3
chr8	28242918	28243029	*	3	0.037997441	-0.028515914	-0.012763578	ZNF395
chr17	5372003	5372492	*	10	0.038071405	0.024330369	0.002380154	DHX33
chr12	104350630	104351390	*	11	0.038076174	0.013161164	-0.002701228	C12orf73
chr2	71503482	71504232	*	11	0.038097065	-0.009256445	-0.003270335	ZNF638
chr1	41847267	41847668	*	3	0.038137311	0.037337057	0.011616336	NA
chr6	30951917	30952175	*	4	0.038139403	0.025727122	0.00981226	MUC21
chr6	28887141	28887514	*	4	0.038191039	-0.015948508	-0.008503784	TRIM27
chr10	133918232	133918387	*	3	0.038248814	0.022351133	0.009173367	JAKMIP3
chr11	67120966	67121358	*	9	0.038261242	-0.00896685	-0.000930865	LOC100130987:POLD4
chr17	38118571	38118787	*	4	0.038288531	0.019410427	0.011758374	GSDMA
chr22	44350726	44350883	*	4	0.03830103	0.025053205	0.008467782	PNPLA3:SAMM50
chr14	24033018	24033309	*	3	0.038305243	-0.013865317	-0.000376516	APIG2
chr3	46718941	46719380	*	4	0.038305965	-0.019422834	-0.011406916	ALS2CL
chr3	49761723	49762132	*	3	0.038306082	-0.01288578	-0.005449991	AMIGO3:GMPBB:IP6K1
chr1	32403619	32404326	*	3	0.038309154	-0.010632326	0.001144596	PTP4A2
chr11	15672200	15672271	*	3	0.038315326	-0.02099884	-0.014180413	NA
chr12	1025772	1026392	*	5	0.038328205	0.015919716	0.005536547	RAD52
chr19	47217237	47217696	*	6	0.038331271	0.014724397	-0.000761236	MIR320E:PRKD2
chr10	71151778	71152020	*	3	0.038353657	0.022578426	0.01289217	HK1
chr5	81460188	81460226	*	3	0.038410662	-0.018685986	-0.006124744	ATG10
chr16	1358964	1359397	*	12	0.03842059	-0.020009376	-0.002358102	UBE2I
chr11	118272665	118273051	*	6	0.038427175	-0.008453142	-0.003993624	ATP5MG:LOC100131626
chr10	75384974	75385537	*	6	0.038438879	-0.021232721	-0.004345669	NA
chr21	35445161	35446012	*	11	0.038448175	-0.037000658	-0.011140844	MRPS6:SLC5A3
chr6	31748762	31749338	*	3	0.038488049	0.015970669	0.010902984	VARS1:VWA7
chr1	230468464	230468773	*	5	0.038488087	-0.035603638	-0.027382664	PGBD5
chr12	54379056	54379609	*	5	0.038488087	0.031336056	0.00275464	HOXC10
chr15	97862882	97863101	*	3	0.038495129	0.019865309	0.010577901	NA
chr5	157099032	157099197	*	3	0.038518307	0.027035068	0.017244717	C5orf52:SOX30
chr14	101005248	101005680	*	3	0.038521036	0.026342859	0.016156418	BEGAIN
chr17	1837588	1837848	*	6	0.038561202	0.024610415	0.014644439	NA
chr19	36132842	36132912	*	4	0.038638578	0.026418081	0.007184806	ETV2
chr6	17102310	17102678	*	6	0.038646665	-0.026781647	-0.011238093	STMND1
chr4	699224	699448	*	7	0.038690342	-0.037999822	-0.01259149	PCGF3
chr1	145027892	145028465	*	3	0.038703297	0.015662664	0.0052344	LOC653513:NBPF9:PDEADIP
chr17	57297306	57297815	*	11	0.038716395	-0.039821005	-0.00673633	GDDP1
chr1	226829496	226829776	*	5	0.038775753	0.015964481	0.002927792	ITPKB
chr20	18359238	18359605	*	4	0.038783981	0.032139427	0.018160148	LINC00851
chr12	124086193	124086477	*	6	0.038800782	-0.014954188	-0.003406045	DDX55
chr11	77921274	77921503	*	4	0.038824655	0.019390224	0.009719956	USP35
chr3	29322819	29323531	*	6	0.038844472	0.015894617	-0.000966125	RBMS3
chr4	41867178	41867562	*	6	0.038856345	-0.01478013	-0.006258818	NA
chr7	1163456	1163642	*	3	0.038856345	0.023418616	0.01857478	C7orf50
chr1	36306804	36307244	*	4	0.038892488	0.010463369	0.002588893	AGO4
chr11	102979833	102980466	*	12	0.038950058	-0.017410564	-0.004446497	DYNC2H1
chr17	72856825	72857154	*	5	0.038950058	0.015417288	0.006693591	GRIN2C
chr7	149112887	149113196	*	4	0.038950058	-0.03935054	-0.024040316	NA
chr6	28129313	28129656	*	8	0.038957568	-0.035388616	-0.010813477	ZNF192P1
chr5	49962509	49962613	*	3	0.038981332	0.007568618	0.003925007	PARP8
chr15	58723657	58724225	*	5	0.039061997	0.041441787	0.018287401	LIPC
chr8	1054048	1054717	*	4	0.039061997	0.017787949	0.009299432	NA
chr19	40889848	40890114	*	4	0.039163876	0.027979375	0.018863529	HIPK4

chr7	29185545	29186501	*	13	0.039167247	-0.022519209	-0.00482653	CHN2;CPVL
chr19	49964960	49965263	*	4	0.039190444	0.021599269	0.008051592	ALDH16A1
chr5	140012660	140012769	*	3	0.039190444	-0.024425932	-0.014509571	CD14
chr17	57918262	57918682	*	4	0.039218677	-0.021942606	-0.014946127	MIR21
chr7	20256996	20257420	*	4	0.039241779	0.016040606	0.000837905	MACC1
chr2	122547604	122547895	*	4	0.039266466	0.010240914	0.00823578	NA
chr20	62220778	62221039	*	3	0.039325628	0.013590585	0.005286342	GMEB2
chr7	2645542	2645764	*	3	0.039332934	0.020500589	0.010747256	IQCE
chr11	31841768	31841980	*	3	0.039337575	0.011869435	0.000286812	PAX6;PAX6-AS1;RCN1
chr7	102937535	102938279	*	9	0.039341422	-0.009895447	-0.000112002	PMPCB
chr19	4007529	4008018	*	6	0.039344002	-0.013848697	-0.00592429	PIAS4
chr11	86748738	86749237	*	7	0.039351124	-0.029121253	-0.005800806	TMEM135
chr6	33378502	33378912	*	3	0.039364566	0.015202657	0.000378459	PHF1
chr1	236046939	236047034	*	3	0.039405801	-0.028809159	-0.017294654	LYST
chr12	53835350	53835506	*	4	0.039563598	0.016797615	0.003344634	PCBP2;PRR13
chr9	706712	707166	*	5	0.039567069	-0.013489416	-0.007311275	KANK1
chr16	27413786	27414418	*	6	0.039591567	-0.014320216	-0.009549302	IL21R
chr5	50673730	50674203	*	5	0.039596471	-0.01307442	-0.010131664	ISL1;LOC642366
chr14	50778273	50778592	*	3	0.039596471	-0.012634226	-0.005168375	DMAC2L;L2HGDH
chr6	10419846	10420287	*	7	0.039613794	-0.013243616	-0.002319029	TFAP2A
chr17	7757933	7758256	*	10	0.039711234	0.020511883	0.005671886	CYB5D1;KDM6B;TMEM88
chr10	134527606	134528050	*	4	0.039711234	0.011577589	0.004516511	INPP5A
chr20	31171386	31172652	*	4	0.03971239	-0.015726372	-0.002308273	NOLAL;NOLAL-DT
chr18	29769532	29770081	*	3	0.039741285	0.020810398	-0.001714792	MEP1B
chr2	27071246	27071332	*	3	0.039744205	-0.026226588	-0.011066498	DPYSL5
chr10	6214016	6214079	*	3	0.039821396	-0.01971921	-0.019139466	PFKFB3
chr13	37633548	37634004	*	8	0.039906648	-0.010186474	-0.00164054	SUPT20H
chr16	89939442	89939812	*	9	0.039932741	0.005975401	0.000929159	TCF25
chr17	79615552	79615861	*	4	0.039932741	0.038683516	0.018356236	TSPAN10
chr19	41880968	41881163	*	3	0.039963691	0.021727697	0.006762161	BCKDHA;TMEM91
chr3	113465791	113465925	*	3	0.040010666	-0.00893973	-0.001892508	ATP6V1A;NAA50
chr6	26595975	26596088	*	3	0.040019106	-0.005377779	-0.002312844	ABT1
chr2	223916148	223916639	*	6	0.040060517	0.028294944	0.013167442	KCNE4
chr13	20702922	20703121	*	3	0.040060517	0.007083221	0.005980826	NA
chr1	36642995	36643743	*	3	0.040081837	0.040095582	0.021100854	MAP7D1
chr17	18918311	18918472	*	4	0.040117413	0.027477998	0.012190034	SLCSA10
chr11	63754305	63754708	*	3	0.040117569	0.029910282	0.006162648	OTUB1
chr12	6887543	6888116	*	4	0.040124207	0.025476033	0.00291413	LAG3
chr19	41902940	41903381	*	8	0.040128575	-0.007975464	-0.000986202	BCKDHA;EXOSC5
chr17	5322267	5322660	*	5	0.040138666	-0.005561583	-0.00049406	NUP88;RPAIN
chr17	48614046	48614436	*	3	0.040143296	0.012438315	0.010938865	EPN3
chr11	27384596	27385277	*	10	0.040146709	-0.014362182	-0.003965828	CCDC34
chr7	91510314	91510597	*	6	0.040175094	0.045395058	0.013000924	MTERF1
chr2	85107426	85107751	*	3	0.040194192	-0.007942925	-0.001588155	TRABD2A
chr19	35485361	35485586	*	4	0.040199287	-0.016456079	-0.00819769	GRAMD1A
chr3	44038869	44038990	*	3	0.040205614	-0.012523197	0.002331002	NA
chr10	665304	665510	*	3	0.040206679	0.016842337	0.011194184	DIP2C
chr22	46318765	46319013	*	3	0.040211541	0.020403306	0.019103739	WNT7B
chr14	52327240	52327486	*	6	0.040218637	-0.008319901	-0.004446574	GNG2
chr21	48018608	48018981	*	4	0.040222326	0.017500652	0.009650839	S100B
chr8	637468	637909	*	3	0.040227828	0.096584379	0.054484963	ERICH1
chr20	37554840	37555079	*	6	0.040244609	-0.014255205	-0.003419193	FAM83D
chr2	1858740	1859146	*	4	0.040248732	-0.032409383	-0.015068402	MYT1L
chr11	69468789	69468991	*	4	0.040260488	0.015052316	0.007129153	CCND1
chr1	160312929	160313075	*	5	0.040283185	-0.018648385	-0.00912176	COPA;NCSTN
chr6	28891358	28891843	*	9	0.040292568	0.015481339	-0.001450351	TRIM27
chr5	140709986	140710237	*	5	0.040322201	-0.021997573	-0.009661406	PCDHGA1
chr12	99039011	99039302	*	7	0.040353822	-0.010950848	-0.002280908	APAF1;IKBIP
chr19	37960306	37960542	*	5	0.040366614	-0.007023787	-0.00149338	ZNF569;ZNF570
chr11	67811114	67811641	*	4	0.040374947	-0.014255608	-0.000106822	TCIRG1
chr17	12569322	12569901	*	4	0.04039271	0.016067539	0.008179753	MYOCD
chr1	44870888	44871634	*	10	0.040403343	0.011930355	-6.11E-05	RNF220
chr19	5997013	5997434	*	4	0.04042102	0.03038116	0.010628083	LOC100128568;RFX2
chr1	201096289	201096354	*	3	0.040437947	0.020109199	0.011456396	NA
chr8	41655789	41656079	*	4	0.040450096	0.030770269	0.009362779	ANK1
chr1	39456490	39457270	*	12	0.040464584	-0.015294779	-0.002506846	AKR1N1

chr8	42249271	42249569	*	4	0.040482984	-0.010588696	-0.004707562	VDAC3
chr20	21492558	21492914	*	4	0.040485142	-0.016986389	0.001008235	NKX2-2
chr1	111991555	111991956	*	9	0.040486435	0.019177903	0.003080546	ATP5PB;WDR77
chr6	62996627	62996702	*	4	0.040491736	-0.011542779	-0.008428713	KHDRBS2
chr15	65321822	65322308	*	7	0.040496453	-0.018948145	-0.003658553	MTFMT
chr1	183155437	183155644	*	3	0.040505405	-0.01347395	-0.012991853	LAMC2
chr22	46409089	46409469	*	4	0.040529175	-0.01499206	-0.008019049	NA
chr11	6584886	6585323	*	5	0.040563978	0.018673836	0.008372323	DNHD1
chr19	860565	861071	*	3	0.040563978	0.025434989	0.018161861	CFD
chr16	49312033	49312560	*	3	0.040611782	-0.019548213	-0.008463418	CBLN1
chr19	2721800	2722300	*	3	0.040673482	0.027157126	0.00985797	DIRAS1
chr4	113441944	113442346	*	3	0.040673813	-0.009378528	-0.009015239	NEUROG2
chr2	55845619	55846091	*	5	0.040696912	0.01773513	0.003682299	PPP4R3B
chr22	50966077	50966123	*	3	0.040708523	0.014881232	0.011952708	SCO2;TYMP
chr11	66112695	66112880	*	4	0.040715573	0.014458571	0.000229755	B4GAT1;BRMS1
chr16	87445524	87445639	*	3	0.040749769	0.017057531	0.012868443	ZCCHC14
chr19	17728330	17728637	*	4	0.040769967	0.027635014	-0.001864026	UNC13A
chr2	177921240	177921624	*	4	0.040814456	0.017028942	0.002345527	NA
chr7	75676696	75676910	*	5	0.040817403	-0.006570729	-0.002396644	MDH2;STYXL1
chr1	31296597	31297444	*	10	0.040821168	-0.025788386	-0.005586844	NA
chr19	1812466	1812732	*	3	0.040829978	-0.025006806	-0.014685745	ATP8B3
chr12	56618626	56618648	*	3	0.040831274	-0.010078363	-0.007714287	NABP2;RNF41
chr9	125132413	125132716	*	4	0.040844151	0.015679974	0.002489268	PTGS1
chr2	98351769	98352002	*	3	0.040854961	0.020758742	0.011482405	ZAP70
chr4	3387281	3387341	*	3	0.040856169	0.011667964	0.005739365	RGS12
chr2	58655444	58655463	*	3	0.040888425	-0.011540225	-0.006817166	NA
chr10	3276519	3277192	*	6	0.040904676	0.015379672	-0.000822848	NA
chr5	138897043	138897583	*	4	0.040912777	0.015707417	0.008304342	NA
chr16	89283569	89283996	*	5	0.040920184	-0.007872719	-0.001670741	ZNF778
chr11	46402949	46403087	*	3	0.040924431	-0.038237268	-0.022782523	MDK
chr1	45120147	45120431	*	4	0.040935708	0.033076664	0.018786666	TMEM53
chr2	95992655	95992762	*	3	0.040938966	0.01896462	0.016937885	KCNIP3
chr7	158250469	158250978	*	3	0.040994455	-0.076269387	-0.024649367	PTPRN2
chr5	102455306	102455989	*	11	0.041018479	0.011181095	0.000607223	GIN1;PPP5K2
chr2	85842750	85843380	*	10	0.041031987	0.007921925	-0.000494098	C2orf68;USP39
chr15	102029948	102030215	*	3	0.041086312	0.034442108	0.014566088	PCSK6
chr17	76900295	76900812	*	3	0.041110179	0.024936697	0.01434235	CEP295NL;TIMP2
chr16	30996377	30996564	*	5	0.041132687	-0.024046598	-0.007727973	HSD3B7
chr9	136019673	136020089	*	4	0.041140521	-0.007713808	-5.47E-05	RALGDS
chr1	2115951	2116287	*	4	0.041145213	0.009625424	0.004328719	FAAP20;PRKCZ
chr2	70188512	70188691	*	3	0.041167474	0.025731566	0.015187526	ASPRV1
chr14	53258566	53258684	*	4	0.041172792	0.021437738	0.013580207	GPNAT1
chr1	36235406	36235882	*	14	0.041211207	-0.01045679	-0.000409469	CLSPN
chr11	66314196	66314378	*	8	0.041215386	0.039332099	0.007697353	ACTN3;ZDHC24
chr17	42988784	42989323	*	6	0.041216212	0.022891943	0.008720752	GFAP
chr16	3493423	3494094	*	12	0.041269157	0.020275518	-0.001087532	NAA60;ZNF597
chr6	7728888	7729080	*	4	0.041271635	-0.015736834	-0.004970426	BMP6
chr10	131361472	131361540	*	3	0.041277984	0.028750829	0.001968075	MGMT
chr9	107689793	107689848	*	3	0.041357352	0.006506877	-0.000886824	ABCA1
chr15	85258669	85258977	*	3	0.041395976	-0.005387759	-0.000273794	SEC11A
chr19	436541	437061	*	3	0.041395976	0.025184293	0.013251327	SHC2
chr19	3006438	3006720	*	3	0.04142955	0.037462663	0.023649914	TLE2
chr2	11273075	11273291	*	4	0.041449694	-0.009960204	-0.005145308	C2orf50;FLJ33534
chr2	159312599	159312727	*	3	0.041449694	-0.021280463	-0.015232812	CCDC148;PRK4
chr22	46647235	46647620	*	3	0.04145726	0.022367339	0.013994054	CDPF1
chr5	179588440	179588838	*	3	0.041482412	-0.036176918	-0.03253321	RASGEF1C
chr7	70597599	70598282	*	6	0.041489192	-0.016881235	-0.007074313	GALNT17
chr14	102172004	102172296	*	3	0.041489192	-0.023815783	0.001682194	NA
chr1	54665230	54665660	*	5	0.041504109	-0.003194599	-0.001542557	CYB5RL;MRPL37
chr11	1091487	1092321	*	5	0.041504109	0.018190014	0.000572416	MUC2
chr3	181441384	181441680	*	4	0.041515898	-0.011919218	-0.010016338	SOX2-OT
chr19	19569139	19569574	*	4	0.041530609	-0.024361446	-0.008947769	GATAD2A
chr16	83841105	83841755	*	10	0.041545661	-0.009386465	-0.000109075	HSBP1
chr6	27279917	27280423	*	9	0.041559751	0.014241379	0.000978037	POM121L2
chr6	31707151	31707667	*	17	0.041607087	0.01715528	0.000229773	CLIC1;MSH5-SAPCD1
chr7	6629350	6629457	*	3	0.041621699	0.010345171	0.002122513	C7orf26

chr6	133137810	133137893	*	3	0.041624244	0.017109199	0.008679424	RPS12;SNORA33
chr7	25893749	25894005	*	4	0.041643125	0.022919893	0.016213204	NA
chr2	39348512	39348582	*	3	0.041643125	0.005990127	0.00121524	SOS1
chr1	88928362	88928839	*	5	0.04165317	-0.024997766	0.000387812	NA
chr11	64793631	64793846	*	3	0.04167798	0.018787036	0.006040619	ARL2;SNX15
chr10	85761623	85761783	*	3	0.041685483	0.016758717	0.004624386	NA
chr11	115631143	115631452	*	4	0.04169008	0.013109574	0.002093735	LINC00900
chr3	11685307	11685606	*	6	0.041712901	-0.018122168	-0.008188536	VGLL4
chr4	6989536	6990245	*	3	0.041747371	0.012233906	0.002766998	TBC1D14
chr3	9291465	9291773	*	4	0.041768849	-0.014461571	-0.008785167	SRGAP3
chr19	41769929	41770192	*	9	0.041781741	-0.005697024	-0.000924027	HNRNPUL1
chr16	58914220	58914345	*	3	0.041785343	-0.023892277	-0.011599462	NA
chr4	184242831	184243024	*	4	0.041806986	0.027076543	0.006207725	CLDN22;CLDN24
chr1	2179352	2179933	*	3	0.041849855	0.014526116	0.007432149	SKI
chr2	9778653	9778812	*	3	0.041851266	0.018938343	0.00162913	NA
chr12	12715028	12715628	*	7	0.04186508	-0.008946312	-0.001474828	DUSP16
chr19	24097411	24097753	*	3	0.041891732	0.015266094	0.013612747	ZNF726
chr14	103989189	103989629	*	9	0.041894254	-0.011899836	-0.001556479	CKB
chr20	57765943	57766332	*	3	0.041894254	0.01317714	0.000649817	ZNF831
chr11	102496104	102496159	*	3	0.041908692	0.02132405	0.014585898	MMP20
chr2	172377981	172378036	*	3	0.041918479	0.021950104	0.005889092	CYBRD1
chr6	31047558	31047822	*	9	0.041926273	-0.013126144	-0.004011486	NA
chr6	32015635	32015773	*	5	0.041946871	0.020158358	0.006653808	TNXB
chr8	143535437	143535580	*	3	0.041967091	0.02595624	0.016335482	NA
chr1	222560672	222560921	*	4	0.041978039	0.02400142	-0.000527389	NA
chr4	185395852	185396180	*	9	0.041995069	0.005206899	0.001431179	IRF2
chr1	1663924	1664080	*	3	0.042008337	0.031583777	0.012496197	SLC35E2A;SLC35E2B
chr11	77899565	77900088	*	11	0.042029136	0.007373447	0.000501401	KCTD21;USP35
chr2	45168507	45168924	*	6	0.042046982	-0.005001618	-0.003147131	SIX3
chr4	141177756	141178298	*	3	0.04208711	0.01906357	0.010037399	SCOC
chr11	115044050	115044454	*	4	0.042089569	-0.027613396	-0.001684864	CADMI
chr16	68013968	68014374	*	5	0.042122677	0.031342434	0.02245363	DPEP3
chr8	144510753	144510966	*	3	0.042122677	0.025810035	0.004355851	MAFA
chr2	240142589	240142806	*	3	0.042217915	-0.026100789	-0.021806123	HDAC4
chr5	176295797	176295891	*	3	0.042234176	0.015854912	0.009009472	UNC5A
chr14	72703540	72703626	*	3	0.042378602	0.025053495	0.007206478	RGS6
chr1	212965581	212965701	*	3	0.042437091	-0.016550729	-0.005100965	NSLI;TATDN3
chr16	1764111	1764432	*	3	0.042437983	0.02652585	0.016808397	MAPK3IP3
chr5	86564371	86564790	*	9	0.042460348	0.00837339	-0.000963795	RASA1
chr15	52310788	52311136	*	4	0.042474701	-0.009083047	-0.005542963	MAPK6
chr14	106833861	106834320	*	3	0.04253249	-0.016469101	-0.003554149	NA
chr1	990293	990557	*	5	0.042583527	0.017855617	0.012231823	AGRN
chr11	112282121	112282390	*	8	0.042624736	0.007071493	-0.000183397	INKA2;INKA2-AS1
chr11	58949291	58949463	*	4	0.042630226	0.021080839	0.009422681	DTX4
chr19	6135505	6135519	*	3	0.042637732	0.017847294	0.009215385	ACSBG2
chr6	165241087	165241210	*	3	0.042658769	0.022215071	0.008672972	NA
chr14	23066421	23067088	*	6	0.042679942	-0.007847255	-0.003030314	ABHD4
chr20	48099146	48099479	*	6	0.04269719	0.014199592	0.004089447	KCNB1
chr20	48732460	48733074	*	9	0.042716221	-0.038101031	-0.009722309	PEDS1-UBE2V1;UBE2V1
chr16	85214676	85215140	*	3	0.042716221	0.020875426	0.014618721	NA
chr1	58525572	58525635	*	3	0.042772002	-0.025630439	-0.017949296	DAB1
chr17	38497494	38497627	*	3	0.042780246	-0.005697483	-0.000624229	RARA
chr3	156273277	156273486	*	5	0.042782121	-0.037016287	-0.022369535	SSR3
chr17	78755379	78755442	*	3	0.042782121	0.027551031	0.016867561	RPTOR
chr6	909612	909903	*	4	0.042786478	0.014488601	0.010632945	NA
chr3	42577680	42577884	*	4	0.042813599	0.023623788	0.010943401	VIPR1
chr16	22959819	22959875	*	3	0.042842909	-0.038175027	-0.024065377	NA
chr7	23053549	23053912	*	7	0.04290336	-0.029662174	-0.003308483	FAM126A
chr12	108732994	108733716	*	9	0.042933122	-0.013288739	-0.008001033	CMKLR1
chr19	50528391	50529485	*	16	0.042969808	-0.008769603	-0.002389184	VRK3;ZNF473
chr12	131590393	131590596	*	3	0.042989294	-0.016361523	-0.013407779	ADGRD1
chr5	180615482	180615650	*	3	0.043008398	0.016250678	0.003321958	NA
chr5	133860141	133860686	*	4	0.043018968	0.008680082	0.001429704	JADE2
chr2	10972607	10973007	*	6	0.043020044	-0.010358703	-0.006039865	PDIA6
chr14	89028798	89029076	*	4	0.043067434	0.018491835	0.005427555	ZC3H14
chr2	223521309	223521683	*	3	0.043075648	0.02172299	0.010606362	FARSB

chr6	30079090	30079280	*	8	0.043126389	-0.045817056	-0.02096631	TRIM31
chr9	137298339	137298390	*	4	0.043126929	0.022452009	0.010915654	RXRA
chr10	118900324	118900464	*	3	0.043222789	0.02437157	0.008628052	VAX1
chr5	11903441	11903681	*	4	0.043243943	-0.010302292	-0.004473938	CTNND2
chr2	179387456	179388064	*	4	0.043249622	-0.03307654	-0.017869025	MIR548N;TTN-AS1
chr3	11732893	11733395	*	3	0.043279234	-0.010223582	-0.003738523	VGLL4
chr9	99540324	99540647	*	9	0.04329621	0.009705591	0.002301218	ZNF510
chr5	43602380	43602519	*	3	0.04330046	0.008798647	0.002986251	NNT;NNT-AS1
chr2	10588825	10589054	*	5	0.043356672	0.005262304	0.001225021	ODC1;SNORA80B
chr7	142027996	142028043	*	3	0.043378242	-0.015674481	-0.013983083	NA
chr1	55247140	55247408	*	3	0.043381549	0.034412773	0.022580304	TTC22
chr20	31037186	31037515	*	3	0.043409175	-0.010783795	-0.007375906	NOL4
chr19	54290523	54290913	*	7	0.043419506	-0.02876966	-0.004348023	MIR371B;MIR372;MIR373
chr16	58425569	58425711	*	3	0.043469577	0.012673051	0.004102397	GINS3
chr14	67879101	67879385	*	5	0.04347015	0.040588798	0.018190306	PLEK2
chr3	49936552	49936623	*	3	0.043488197	0.015755904	0.011855622	MST1R
chr19	49956333	49956506	*	5	0.043491957	0.014626205	0.004398734	ALDH16A1;PIH1D1
chr2	74710205	74710667	*	13	0.043495348	0.011262059	-0.000411231	CCDC142;TTC31
chr16	1222028	1222626	*	4	0.043495348	0.016982683	0.010302722	CACNA1H
chr3	196750158	196750506	*	3	0.043577086	-0.028762981	-0.022721881	MELTF
chr11	622021	622229	*	3	0.043577086	0.024133197	0.014702073	CDHR5
chr2	75836347	75836410	*	3	0.043618452	-0.017485309	-0.011963938	NA
chr1	2159351	2159373	*	4	0.043620504	-0.008652506	-0.002850911	SKI
chr10	30024742	30024894	*	4	0.043635886	-0.019146389	-0.008617626	SVIL
chr16	79634410	79634708	*	4	0.043653269	-0.00308436	-0.001525782	MAF
chr18	44237619	44237801	*	3	0.043676597	0.024265939	0.016091964	LOXHD1
chr2	18252257	18252425	*	3	0.04368353	0.029722219	0.01822126	CERKL
chr7	158319029	158319204	*	3	0.043688735	0.025071634	0.019768536	PTRN2
chr14	23775663	23775794	*	5	0.043699773	-0.014670932	-0.008188166	BCL2L2;BCL2L2-PABPN1;PPP1R3E
chr3	33700962	33701166	*	4	0.043702487	-0.020032011	-0.014131117	CLASP2
chr19	4305072	4305239	*	3	0.043764542	0.027821069	0.025900214	FSD1;TMIGD2
chr4	8043170	8043258	*	3	0.043766734	0.029845775	0.018199987	ABLIM2
chr1	3191660	3191876	*	5	0.043777541	0.015692666	0.003474362	PRDM16
chr17	4074126	4074299	*	4	0.043777541	0.025293554	0.010687482	ANKFY1
chr6	14755099	14755359	*	3	0.043777945	0.025942623	0.012312201	NA
chr14	76127290	76127843	*	10	0.043785603	-0.015958958	-0.002896009	ERG28;TLL5
chr1	16062894	16063122	*	3	0.043792693	0.01567695	0.004315308	SLC25A34
chr8	85094842	85095275	*	3	0.043821947	-0.003629145	-0.002697073	RALYL
chr12	57881178	57881799	*	6	0.043838851	0.013372614	0.002258447	ARHGAP9;MARS1
chr19	1490414	1490631	*	6	0.043864165	-0.010817291	-0.000209574	PCSK4;REEP6
chr19	55580852	55581012	*	4	0.043864165	-0.014497617	-0.005560279	EPS8L1;RDH13
chr11	72065390	72065489	*	3	0.043898668	0.021109908	0.013864455	CLPB
chr16	90114063	90114307	*	6	0.043940868	-0.030203047	-0.019578943	URAHF
chr3	148721527	148721868	*	3	0.043955117	0.037478476	0.027590758	GYG1
chr2	207139066	207139471	*	12	0.043987662	0.013397998	0.001819055	ZDBF2
chr19	3135131	3135364	*	3	0.04401741	0.011762193	0.000972259	GNAI5
chr3	185407094	185407276	*	4	0.044039318	0.020072392	0.009648987	IGF2BP2
chr3	128273476	128273509	*	3	0.044048624	0.021336479	0.015330876	NA
chr11	74109674	74110145	*	6	0.044088378	0.021578988	0.002494614	PGM2L1
chr12	133417190	133417338	*	4	0.044115211	0.038846113	0.024621417	CHFR
chr9	2844149	2844396	*	6	0.044146852	-0.004827723	-0.002747422	PUM3
chr11	116706051	116706562	*	6	0.044204078	-0.029200083	-0.005716449	APOA1
chr1	156261200	156261403	*	6	0.044228653	0.033071614	0.012296068	TMEM79
chr22	41613692	41614127	*	4	0.044246489	-0.017535671	-0.011104743	L3MBTL2
chr12	53694011	53694132	*	4	0.044311482	-0.022752692	-0.002169381	MYG1
chr17	38804673	38805157	*	7	0.044317708	0.019870778	0.003969711	SMARCE1
chr1	203255843	203256315	*	5	0.044320227	-0.011430603	-0.007007755	NA
chr10	111682910	111683347	*	6	0.044342082	-0.005349437	-0.002668773	XPNPEP1
chr6	116989951	116990951	*	7	0.044343666	0.023223734	0.006107622	ZUP1
chr1	151805634	151805773	*	3	0.044364025	0.018604289	0.000777726	RORC
chr16	66876847	66876938	*	3	0.044368638	0.022929489	0.018323188	CA7
chr11	3400108	3400543	*	6	0.044410675	-0.011702953	-0.00014541	TSSC2;ZNF195
chr9	130829748	130830096	*	4	0.044445933	-0.0048728	-0.001093519	NAIFI;SLC25A25
chr19	19774756	19774961	*	4	0.044469767	-0.012842602	-0.004952224	ATP13A1;ZNF101
chr12	103351855	103352000	*	3	0.044476933	-0.010464664	-0.004832686	ASCL1
chr11	65337543	65338038	*	7	0.044508614	-0.00601561	-0.0009684	FAM89B;ZNRD2;ZNRD2-AS1

chr4	57976431	57976561	*	3	0.044585957	-0.016858064	-0.011900816	<i>IGFBP7;IGFBP7-AS1</i>
chr20	60119508	60119664	*	3	0.044600433	0.028418698	0.014240703	<i>CDH4</i>
chr2	24240148	24240246	*	3	0.044618356	0.016529835	0.011818516	<i>MFSD2B</i>
chr11	45737711	45737771	*	3	0.044636913	0.023795381	0.022739922	<i>NA</i>
chr17	47492263	47492548	*	10	0.044676009	-0.032829472	-0.009996867	<i>PHB</i>
chr13	95248638	95248771	*	5	0.04468196	0.014238632	0.002357735	<i>TGDS</i>
chr11	48001761	48001954	*	4	0.044690047	-0.03402126	-0.00441092	<i>PTPRJ</i>
chr6	30698584	30698843	*	8	0.044700407	-0.029691403	-0.010700956	<i>FLOT1</i>
chr12	107974139	107974453	*	7	0.044700407	0.03587105	0.015284991	<i>BTBD11</i>
chr12	46660255	46660338	*	3	0.044700407	0.029314029	0.016243091	<i>SLC38A1</i>
chr5	76787720	76788595	*	11	0.044734744	-0.024761531	-0.00529113	<i>WDR41</i>
chr5	79551031	79551238	*	3	0.044768694	-0.006579534	-0.004069444	<i>SERINC5</i>
chr2	240505261	240505399	*	3	0.04477554	0.018262707	0.012489381	<i>NA</i>
chr7	116859066	116859594	*	3	0.044781265	0.019032006	0.006269847	<i>ST7</i>
chr1	111307148	111307245	*	3	0.044830761	0.030601205	0.01705927	<i>NA</i>
chr2	8818884	8819227	*	6	0.04483109	0.012766449	0.005044818	<i>ID2</i>
chr11	57078976	57079362	*	5	0.044842583	-0.01406064	-0.007200272	<i>TNKS1BP1</i>
chr14	70233693	70233918	*	5	0.044848303	-0.010506517	-0.001595659	<i>LOC100289511;SRSF5</i>
chr19	40732784	40732902	*	4	0.044848303	0.022375255	0.004090995	<i>CCNP</i>
chr19	39616041	39616465	*	9	0.044905955	-0.011426244	-0.002822803	<i>PAK4</i>
chr3	121468645	121468984	*	8	0.04494649	-0.022491428	-0.005439506	<i>GOLGB1</i>
chr1	109585022	109585161	*	4	0.044952625	-0.011200108	-0.004195452	<i>WDR47</i>
chr20	23077706	23077908	*	3	0.044953601	-0.015148027	-0.004838594	<i>NA</i>
chr3	38663937	38664174	*	3	0.044953601	0.017049272	0.007529966	<i>SCN5A</i>
chr3	33839997	33840313	*	8	0.04495473	-0.006994336	-0.000472691	<i>PDCD6IP</i>
chr17	41909601	41909716	*	4	0.04496648	0.01727926	0.010539829	<i>MPP3</i>
chr20	30865285	30865674	*	8	0.044979022	-0.003930215	-0.001627227	<i>KIF3B</i>
chr20	8638980	8639258	*	4	0.04499396	-0.018326671	-0.000507752	<i>PLCB1</i>
chr17	64575563	64575592	*	3	0.04499396	-0.013334678	-0.01165192	<i>PRKCA</i>
chr10	134943246	134943309	*	3	0.045005326	-0.042040222	-0.021650158	<i>ADGRA1</i>
chr6	170408355	170408669	*	3	0.04500588	-0.01776162	0.00218355	<i>NA</i>
chr12	108079012	108079950	*	14	0.045038401	-0.009439431	-0.001383987	<i>PWP1</i>
chr2	200189694	200189929	*	3	0.045078407	0.018738996	0.004083941	<i>SATB2</i>
chr1	31190863	31191003	*	4	0.045112079	-0.020580001	-0.010850925	<i>MATN1;MATN1-AS1</i>
chr18	47808805	47809075	*	3	0.045121269	0.025576605	0.015439535	<i>CXXC1;MBD1</i>
chr11	8285724	8286017	*	3	0.045136028	-0.015183458	-0.00541699	<i>LMO1</i>
chr6	57181701	57181802	*	3	0.045137188	-0.023675625	-0.007202224	<i>PRIM2</i>
chr3	125677491	125677724	*	3	0.045192411	0.032534752	0.026372597	<i>NA</i>
chr1	228112806	228113207	*	5	0.04522103	0.022957627	0.016713922	<i>WNT9A</i>
chr8	22500401	22500482	*	3	0.045228473	-0.017488014	-0.012115232	<i>BIN3;BIN3-IT1</i>
chr19	16284242	16284421	*	5	0.045248261	0.019813442	0.003196952	<i>CIB3</i>
chr19	13207239	13207602	*	4	0.045296362	0.015601322	0.001284153	<i>NFIX</i>
chr1	61548115	61548309	*	5	0.045298664	-0.015075982	-0.002928877	<i>NFIA</i>
chr13	112733670	112733739	*	3	0.0454913	-0.031083442	-0.021470204	<i>NA</i>
chr5	173488447	173488460	*	3	0.045513658	0.029614922	0.020603133	<i>NSG2</i>
chr8	142377303	142378116	*	10	0.045517356	-0.016658181	-0.006511329	<i>GPR20</i>
chr6	31940522	31940855	*	10	0.045538851	-0.022299826	-0.004990818	<i>DXO;STK19</i>
chr3	193808583	193808625	*	3	0.045544518	0.01406055	0.00911988	<i>NA</i>
chr2	45150055	45150218	*	3	0.04564963	-0.023104932	-0.000960485	<i>NA</i>
chr6	126660245	126660315	*	3	0.04570955	0.014166291	0.00619049	<i>CENPW</i>
chr11	71163853	71164189	*	5	0.045738953	-0.007037004	-0.003470826	<i>DHCR7;NADSYN1</i>
chr20	30619244	30619522	*	4	0.045750274	-0.010561129	-0.003905951	<i>CCM2L</i>
chr3	171528273	171528828	*	5	0.045751478	0.024159774	-0.001037799	<i>PLD1</i>
chr19	2650727	2650951	*	5	0.045774234	0.025150471	0.011277568	<i>GNG7</i>
chr3	194795378	194795573	*	3	0.04578152	0.018236379	0.012811796	<i>XXYL1</i>
chr13	41345183	41345689	*	12	0.045838374	-0.004701264	-0.000340756	<i>MRPS31</i>
chr1	174967663	174968015	*	3	0.045843116	0.020127593	0.013229388	<i>CACYBP</i>
chr19	41836950	41837123	*	3	0.045868437	0.020626779	0.016316419	<i>TGFB1</i>
chr2	98329942	98330493	*	4	0.045878107	-0.010799347	-0.007278064	<i>ZAP70</i>
chr19	52005153	52005188	*	3	0.045944023	-0.012102958	-0.005880624	<i>SIGLEC12</i>
chr19	35992791	35992835	*	3	0.045960096	0.025810858	0.018952163	<i>DMKN</i>
chr15	75119018	75119335	*	3	0.046017094	-0.025921405	-0.017170704	<i>CPLX3;LMAN1L</i>
chr3	116164242	116164576	*	5	0.046031971	-0.01860319	-0.009465541	<i>LSAMP</i>
chr16	89977652	89977815	*	3	0.04605974	0.008450682	0.006361185	<i>TCF25</i>
chr20	57226061	57226202	*	4	0.046097128	-0.009944485	-0.003550436	<i>STX16</i>
chr1	876249	876551	*	5	0.046113833	0.017547941	0.004545351	<i>SAMD11</i>

chr19	46389466	46389607	*	7	0.046170634	0.005170721	0.001499673	<i>IRF2BP1</i>
chr6	31865084	31865118	*	4	0.046188504	-0.011155955	-0.00388585	<i>C2:EHMT2</i>
chr12	56660626	56660921	*	5	0.046244563	-0.006795771	-0.001141829	<i>COQ10A</i>
chr17	9548019	9548120	*	3	0.046244563	-0.00542131	-0.002697652	<i>USP43</i>
chr11	1380305	1380355	*	3	0.046296372	0.013517353	0.007899203	<i>NA</i>
chr14	105750359	105750676	*	3	0.046318823	-0.014889103	-0.01026285	<i>BRF1</i>
chr17	47270388	47270556	*	3	0.046327705	-0.005296212	-0.002942239	<i>NA</i>
chr9	102668802	102669115	*	6	0.046327824	-0.013950474	0.000109564	<i>STX17;STX17-AS1</i>
chr15	41708908	41709156	*	6	0.046332613	0.009950184	-0.00029168	<i>RTF1</i>
chr6	30313517	30313742	*	3	0.046337778	-0.013134659	-0.01097087	<i>RPP21;TRIM39-RPP21</i>
chr19	50250529	50250595	*	3	0.04638561	0.016295109	0.011212988	<i>TSKS</i>
chr17	10741601	10742003	*	4	0.046442279	-0.010555503	-0.006502292	<i>PIRT</i>
chr1	197744516	197744787	*	8	0.046473181	0.017840913	0.000751056	<i>DENND1B</i>
chr18	31158234	31158549	*	7	0.046478114	-0.019520779	-0.006976343	<i>ASXL3</i>
chr6	163612896	163613008	*	3	0.04647853	-0.021749212	-0.012730399	<i>PACRG</i>
chr10	43277745	43277913	*	5	0.046487214	-0.019980149	-0.001330764	<i>BMS1</i>
chr14	77786981	77787055	*	4	0.046607721	-0.015302482	-0.007917654	<i>GSTZ1;POMT2</i>
chr8	48744522	48744602	*	3	0.04664893	0.022297792	0.013118874	<i>PRKDC</i>
chr6	33160869	33161148	*	8	0.046682272	0.014769325	-0.000363257	<i>COL11A2</i>
chr4	3449663	3449904	*	3	0.046706383	0.018601872	0.012791019	<i>HGFAC</i>
chr17	72580567	72581014	*	4	0.046767268	0.021826724	0.012989341	<i>C17orf77;CD300LD</i>
chr15	42387193	42387290	*	3	0.046814533	0.019089914	0.007890921	<i>PLA2G4D</i>
chr6	30293841	30294255	*	13	0.046876019	-0.012222471	-0.001973708	<i>HCG17;HCG18;TRIM39;TRIM39-RPP21</i>
chr21	43735412	43735760	*	5	0.046954058	0.016939391	0.001956454	<i>TFE3</i>
chr13	36045352	36045633	*	4	0.046967308	0.025024963	0.009979487	<i>NBEA</i>
chr13	111090669	111090821	*	3	0.047044244	0.019600135	0.008288627	<i>COL4A2</i>
chr11	2165425	2165656	*	3	0.047106171	-0.014381142	-0.009597226	<i>IGF2;IGF2-AS;INS-IGF2</i>
chr12	7260546	7260877	*	6	0.04716395	0.016335342	0.001973679	<i>CIRL;CIRL-AS1</i>
chr17	1090809	1090905	*	3	0.047238822	0.012129026	0.007197664	<i>ABR</i>
chr19	39421606	39421969	*	7	0.047249748	-0.01580336	-0.006666233	<i>MRPS12;SARS2</i>
chr7	28220498	28220533	*	4	0.047259122	0.005293812	0.0026241	<i>JAZF1;JAZF1-AS1</i>
chr3	197239184	197239698	*	3	0.047365669	0.018721289	0.009296704	<i>BDH1</i>
chr5	145317340	145317425	*	3	0.047407063	0.042580091	0.015585704	<i>SH3RF2</i>
chr9	117150236	117150495	*	4	0.04741385	-0.012196253	-0.009146297	<i>AKNA</i>
chr14	58765243	58765609	*	3	0.047458822	-0.006853802	-0.003050376	<i>ARID4A;ARMH4;PSMA3-AS1</i>
chr8	1304855	1305125	*	3	0.047503286	0.014627665	-0.001269905	<i>NA</i>
chr5	133305347	133305704	*	4	0.04758472	0.030679527	0.01854528	<i>C5orf15</i>
chr15	79383385	79383644	*	6	0.047806731	0.010973043	0.001307268	<i>RASGRF1</i>
chr21	45079144	45079336	*	6	0.048004176	0.016193996	0.000366877	<i>HSF2BP;RRP1B</i>
chr14	105452552	105452712	*	4	0.048006978	0.010430482	-0.000149178	<i>CLBA1</i>
chr17	78925172	78925278	*	3	0.048010974	0.012873287	0.006965867	<i>RPTOR</i>
chr7	149559370	149559471	*	3	0.048040963	0.012573554	0.007299955	<i>ZNF862</i>
chr6	36842801	36842865	*	3	0.048048273	-0.004521313	-3.09E-05	<i>C6orf89;PPIL1</i>
chr11	62192276	62192381	*	3	0.048071178	-0.023327387	-0.016754082	<i>NA</i>
chr17	40995321	40995583	*	3	0.0480717	-0.01912736	-0.008146057	<i>AOC2;PSME3</i>
chr16	10837597	10837677	*	5	0.048146546	-0.015367427	-0.012022918	<i>NUBP1</i>
chr11	1848691	1848742	*	3	0.048167515	0.018477096	0.013817109	<i>SYT8</i>
chr1	2518104	2518194	*	4	0.04829853	-0.025373989	-0.016307391	<i>PRXL2B</i>
chr20	62680986	62681064	*	5	0.048398386	-0.03876124	-0.026460766	<i>SOX18</i>
chr19	45150513	45150725	*	4	0.048435053	0.023526003	0.01589017	<i>PVR</i>
chr11	915093	915440	*	8	0.048490661	-0.02067467	-0.001161107	<i>CHD1</i>
chr21	27945413	27945542	*	3	0.048492151	-0.023779446	-0.015630847	<i>CYR1</i>
chr12	103358649	103358708	*	3	0.048674044	-0.0094215	-0.006918751	<i>NA</i>
chr1	156265275	156265456	*	4	0.048777936	-0.014557783	-0.009034689	<i>GLMP</i>
chr5	132202169	132202281	*	4	0.048829896	0.0054486	-2.32E-05	<i>GDF9;UQCRQ</i>
chr6	33422516	33422529	*	3	0.048897806	-0.020785648	-0.004329101	<i>ZBTB9</i>
chr6	42749794	42749811	*	3	0.04901293	-0.022623761	-0.008332268	<i>BICRAL</i>
chr16	1265487	1265606	*	3	0.049085364	0.028088424	0.007409778	<i>CACNA1H</i>
chr20	61754869	61755045	*	3	0.049107194	0.037717139	0.019239472	<i>NA</i>
chr4	42659286	42659458	*	5	0.049118333	-0.005976617	-0.001070897	<i>ATPSA1</i>
chr6	85474188	85474313	*	3	0.049235898	-0.008027972	-0.004611179	<i>TBX18</i>
chr3	61547104	61547211	*	5	0.049285746	-0.016616711	-0.005991205	<i>PTPRG</i>
chr5	80256738	80256867	*	3	0.049312579	0.015568483	0.008956073	<i>RASGRF2</i>
chr17	73569211	73569370	*	3	0.049438397	0.026175562	0.013594608	<i>LLGL2</i>
chr19	41869688	41869719	*	3	0.049487122	0.010985649	0.00158734	<i>B9D2;TMEM91</i>

Supplemental Table 5 - Lifestyle specific KEGG pathway enrichment analysis

ID	Description	Gene ratio	Bg ratio	P-value	FDR	q-value	Gene ID	Count	Fold enrichment
hsa04724	Glutamatergic synapse	43/1682	114/8105	2.12E-05	0.00691	0.00564	CACNA1D/GNG7/ADCY7/GRIN2A/SHANK2/ITPR1/GRIK4/PRKCA/GRIK1/GRM3/HOMER3/GRIK5/S LC38A1/PLA2G4D/GRM2/PLCB1/GRIN2D/GNAQ/GNG11/GRM6/GNAO1/GRIN2C/GRM1/GRK3/SLC38A2/GNG2/SLC1A7/JMJD7-PLA2G4B/GNG12/ADCY1/GNG13/DLGAP1/GRIN2B/PLD1/SLC1A6/GLUL/PRKCG/GRIK2/GRM4/ITPR3/PLCB3/GRIA4/GNAS	43	1.817567849
hsa04360	Axon guidance	58/1682	182/8105	0.00025135	0.03105	0.02536	SEMA7A/SEMA4B/BMP7/WNT5B/PLCG1/EPHB4/PLCG2/RGMA/PLXNA1/SEMA4C/PLXNB2/DPYSL2/PRKCA/MYL5/RAC2/SEMA4A/EFNA2/SEMA5B/SRGAP3/PIK3R1/RGS3/PARD6G/PAK1/DPYSL5/SEMA4G/LRRC4C/ABLIM2/SEMA6C/ROBO3/PIK3CB/UNC5A/PRKCZ/RHOD/EPHB2/UNC5C/NCK2/SEMA3F/LIMK1/SEMA3D/MET/BOC/SEMA6D/EFNA1/CAMK2D/TRPC3/WNT5A/MYL12B/NFATC2/NTNG2/ROBO1/SEMA4F/SEMA3A/EPHB3/RASA1/EPHA5/PAK4/SLIT2/KRAS	58	1.535619553
hsa05226	Gastric cancer	49/1682	149/8105	0.00032806	0.03105	0.02536	WNT5B/TGFB2/AXIN1/FGF5/AKT3/CTNNA2/SOS1/WNT7B/SHC2/DVL1/TGFB1/FGFR2/SMAD3/PIK3R1/WNT11/FGF4/CCND1/FGF9/JUP/TCF7L2/APC2/LRP5/PIK3CB/WNT1/FGF3/MUC2/RXRA/CDKN1B/SMAD2/WNT9A/MET/HGF/TERT/WNT5A/WNT2B/POLK/GADD45A/TCF7/SHC4/FGF17/FGF23/GRB2/RARB/RXRG/CDKN1A/APC/ABCB1/KRAS/RXR	49	1.584662714
hsa04550	Signaling pathways regulating pluripotency of stem cells	47/1682	143/8105	0.00043666	0.03105	0.02536	WNT5B/IGF1R/KLF4/AXIN1/MYF5/AKT3/FGFR3/WNT7B/PCGF3/INHBA/DVL1/FGFR2/SMAD3/PIK3R1/WNT11/PCGF1/ZFH3/DLX5/BMP4/JARID2/APC2/SMAD1/PAX6/PIK3CB/WNT1/OTX1/SMAD2/MEIS1/WNT9A/ACVR1/FGFR1/ISL1/INHBB/ID4/WNT5A/ACVR1B/WNT2B/REST/ID2/TCF7/BMI1/COMMD3-BMI1/GRB2/PCGF5/APC/KRAS/MAPK14	47	1.583758097
hsa05225	Hepatocellular carcinoma	53/1682	168/8105	0.00059792	0.03105	0.02536	WNT5B/PLCG1/IGF1R/TGFB2/PLCG2/AXIN1/AKT3/PHF10/IGF2/SOS1/PRKCA/BCL2L1/WNT7B/SHC2/DVL1/TGFB1/SMAD3/DPF1/PIK3R1/CDK6/WNT11/CCND1/TCF7L2/APC2/LRP5/PIK3CB/WNT1/SMAD2/DPF3/SMARCA4/WNT9A/MET/HGF/TERT/ARID1B/GSTM3/KEAP1/WNT5A/WNT2B/POLK/CDKN2A/GADD45A/TCF7/SHC4/NFE2L2/SMARCE1/PRKCG/GRB2/TXNRD2/CDKN1A/APC/KRAS/CDK4	53	1.520175103

hsa05202	Transcriptional misregulation in cancer	59/1682	192/8105	0.00064011	0.03105	0.02536	PBX3/CEBPE/ETV6/IGF1R/PTCRA/PPARG/ASPSCR1/RARA/BCL2L1/CCNT2/RUNX1/CD14/ZBTB16/PAX8/JUP/PAX5/SMAD1/RUNX1T1/BCL11B/IL6/H3C10/RXRA/ELK4/SLC45A3/MAF/CDKN1B/MEIS1/WT1/DEFA4/NFKB1/MET/ETV4/NTRK1/H3C3/DEFA6/MDM2/CD40/POLK/ID2/GADD45A/TRAF1/SIX1/NFKBIZ/CCNA1/DUSP6/BMI1/COMMD3-BMI1/HMGA2/LDB1/CDK14/JMJD1C/SPINT1/RXRG/HOXA10/CDKN1A/RUNX2/HOXA9/RXRB/HOXA11	59	1.480736598
hsa04935	Growth hormone synthesis, secretion and action	40/1682	119/8105	0.00068867	0.03105	0.02536	CACNA1D/PLCG1/ADCY7/SOCS3/PLCG2/IRS1/AKT3/ITPR1/SOS1/PRKCA/SHC2/CREBBP/PIK3R1/SSTR2/MAP2K3/CREB3L3/PLCB1/GNAQ/SSTR5/PIK3CB/SOCS2/SOCS1/SST/IRS2/CRKL/ADCY1/MAPK8/SHC4/JUNB/STAT1/MAP2K6/GHR/PRKCG/GRB2/ITPR3/PLCB3/GNAS/KRAS/MAPK14/ATF6B	40	1.619720421
hsa05223	Non-small cell lung cancer	27/1682	72/8105	0.00077671	0.03105	0.02536	PLCG1/PLCG2/KIF5C/AKT3/SOS1/PRKCA/PIK3R1/CDK6/CCND1/PIK3CB/RXRA/MET/HGF/RASSF5/ALK/POLK/CDKN2A/GADD45A/KIF5B/PRKCG/GRB2/RARB/RXRG/CDKN1A/KRAS/CDK4/RXRB	27	1.807000595
hsa04015	Rap1 signaling pathway	63/1682	210/8105	0.00085717	0.03105	0.02536	F2RL3/PLCG1/ADCY7/VEGFC/IGF1R/GRIN2A/VAV2/RAP1A/ADORA2B/FGF5/AKT3/EVL/PRKCA/FGFR3/RAC2/EFNA2/THBS1/FGFR2/PIK3R1/SKAP1/PARD6G/FGF4/ADORA2A/CTNND1/ITGB2/FGF9/MAP2K3/PDGFR/PLCB1/ITGAL/GNAQ/PIK3CB/FGF3/PRKCZ/RALGDS/GNAO1/VASP/PDGFC/FGFR1/VEGFA/LCP2/PRKD2/PFN1/MET/HGF/VAV3/EFNA1/RAP1GAP/RASSF5/CRKL/ADCY1/GRIN2B/MAGI2/FGF17/FGF23/MAP2K6/KITLG/PRKCG/PLCB3/GNAS/KRAS/RAPGEF3/MAPK14	63	1.445600476

Supplemental Table 7 - Lifestyle specific Differentially Methylated Regions (DMRs) after smoking adjustment

Chromosome	Start	End	Number CpGs	Min smoothed FDR	Max difference	Mean difference	UCSC RefGene name
chr6	30038254	30039801	32	1.48E-12	0.26301652	0.101195725	<i>RNF39</i>
chr6	32134461	32135326	28	0.011804642	0.135533373	0.032421836	<i>EGFL8;PPT2-EGFL8</i>
chr20	57426264	57427103	28	0.018207343	-0.115194403	-0.030073591	<i>GNAS;GNAS-AS1</i>
chr12	133065724	133066762	27	0.00896172	-0.136345843	-0.035270375	<i>FBRS1</i>
chr6	28863910	28864787	27	0.019442551	-0.052088872	-0.014174769	NA
chr10	135050619	135052004	24	0.015354912	0.111711963	0.039816501	<i>VENTX</i>
chr6	28890322	28891121	24	0.028139573	-0.048208715	0.00178324	<i>TRIM27</i>
chr17	46679361	46683120	23	1.84E-07	-0.20272025	-0.117526339	<i>HOXB-AS3;HOXB6</i>
chr11	2721610	2722713	22	0.005101391	-0.136214077	-0.018553555	<i>KCNQ1;KCNQ1OT1</i>
chr7	95025514	95026672	21	0.003688009	-0.145534461	-0.043021568	<i>PON1;PON3</i>
chr6	31854757	31855914	20	0.017286655	-0.099036495	0.000225499	<i>EHMT2</i>
chr12	47472317	47474055	20	0.033287493	-0.063795483	-0.017388384	<i>AMIGO2;PCED1B</i>
chr6	32016100	32016690	18	0.021795963	-0.097851478	-0.034476894	<i>TNXB</i>
chr7	86781154	86782128	17	0.004331321	-0.078566984	-0.005844292	<i>DMTF1</i>
chr4	1004609	1005405	17	0.009441084	0.091996236	-0.010027755	<i>FGFR1</i>
chr19	42348327	42349472	17	0.011483672	0.177121094	0.041453065	<i>DMRTC2;LYPD4</i>
chr17	6543784	6544903	17	0.013600728	-0.049809311	-0.008881663	<i>KIAA0753;TXNDC17</i>
chr3	186524196	186525224	17	0.013910837	-0.062590463	-0.012125617	<i>RFC4</i>
chr2	27434127	27435253	17	0.015617619	-0.085943385	-0.025127007	<i>ATRAID;SLC5A6</i>
chr10	25463757	25464719	16	0.001821993	0.076189181	0.030642284	<i>GPRI58;GPRI58-AS1</i>
chr22	38141419	38143168	15	0.000173663	-0.109242447	-0.027101608	<i>TRIOBP</i>
chr5	135415258	135416613	15	0.002724331	-0.259045721	-0.17280631	<i>VTRNA2-1</i>
chr9	131084212	131085041	15	0.005481906	0.054454204	-0.002562696	<i>COQ4;TRUB2</i>
chr16	82659960	82660873	15	0.0068722	0.147339978	0.02169774	<i>CDH13</i>
chr1	27709634	27710270	15	0.010775673	-0.132045484	-0.035718048	<i>CD164L2</i>
chr8	144653962	144655679	14	4.29E-12	-0.170012208	-0.048003983	<i>MROH6</i>
chr6	142621875	142623767	14	0.0015424	0.14468528	0.066123508	<i>ADRG6</i>
chr10	63808314	63809170	14	0.001707112	-0.079018856	-0.0486046	<i>ARIS5B</i>
chr18	3450921	3451750	14	0.004196944	-0.03711323	-0.006142553	<i>TGIF1</i>
chr14	23298687	23299469	14	0.037205795	0.070843983	0.001816313	<i>MRPL52</i>
chr12	47219626	47220197	13	2.27E-05	-0.243884576	-0.121496601	<i>SLC38A4</i>
chr1	59042745	59044110	13	0.000190224	-0.366686331	-0.112687749	<i>TACSTD2</i>
chr8	144659831	144661051	13	0.000902352	-0.172569917	-0.086241001	<i>MROH6;NAPRT</i>
chr2	198649443	198650603	13	0.000923399	0.111795599	0.066728329	<i>BOLL</i>

chr14	33403060	33404466	13	0.001707112	0.108578924	0.032048617	NPAS3
chr17	8065842	8067323	13	0.001796119	-0.171974667	-0.058444662	VAMP2
chr2	21266500	21267334	13	0.001933556	0.163174972	0.08376975	APOB
chr10	22604699	22605708	13	0.008434456	-0.060620269	-0.020742989	M11;COMMD3;COMMD3-BMI1
chr18	11908329	11909634	13	0.008850963	0.095565042	-0.008341645	MPPE1
chr11	62495049	62495981	13	0.009990775	0.053981081	0.001539719	NPUL2;HNRNPUL2-BSCL2;TTC9C
chr6	143998869	143999715	13	0.013896562	-0.102846483	0.017201106	PHACTR2
chr19	55994506	55996566	13	0.015558243	0.093634347	0.012465281	NAT14;SSCS5D;ZNF628
chr14	74317981	74318586	13	0.015713405	0.082251142	0.02625064	PTGR2;ZNF410
chr13	31505976	31507139	13	0.018249798	-0.13977654	-0.064390807	TEX26;TEX26-AS1
chr4	87515184	87515704	13	0.020334008	0.14067437	0.015465099	MAPK10;PTPN13
chr5	133561934	133562604	13	0.020787079	-0.086709733	-0.018200012	CDKL3;PPP2CA
chr12	48152355	48152951	13	0.025514214	0.091642192	0.004969382	RAPGEF3
chr5	132201840	132202607	13	0.02851886	-0.075294802	-0.007129017	GDF9;UQCRCQ
chr14	24898818	24899306	13	0.038139446	-0.073873007	-0.01324127	CBLN3;KHNYN
chr1	247275326	247276552	13	0.038876963	0.09995177	0.001564908	C1orf229
chr14	104551481	104552397	12	0.003378588	-0.114166856	-0.049895178	ASPG
chr19	33622563	33623230	12	0.006066932	0.102073377	0.057204463	WDR88
chr15	75018774	75019376	12	0.006305067	0.209134372	0.082134572	CYP11A1
chr11	2017939	2018724	12	0.008850963	0.112997602	0.050331891	H19;MIR675
chr15	73925257	73926085	12	0.009141693	-0.099204931	-0.026888671	NFTN
chr17	26971809	26972805	12	0.009756918	-0.064198316	-0.021010878	KIAA0100
chr20	33999761	34000519	12	0.009952802	-0.162313354	-0.059114786	GDF5;UQCC1
chr10	82115885	82116608	12	0.015139172	0.084435685	-0.007453005	DYDC1;DYDC2
chr6	29600108	29600642	12	0.021774764	-0.102675431	-0.025608405	GABBR1
chr7	75677153	75677766	12	0.026635647	-0.046409798	-0.00549369	MDH2;STYXL1
chr16	67203406	67204807	12	0.028503168	-0.070655549	-0.025724664	HSF4;NOL3
chr6	167412518	167413049	12	0.028503168	-0.047998634	-0.02194048	CCR6;CEP43;MIR3939
chr18	21718735	21719352	12	0.031406099	-0.100019923	-0.0266002	CABYR
chr2	55459394	55459861	12	0.038706554	-0.055183402	0.000640702	CLHC1;RPS27A
chr3	149375789	149376317	12	0.041485731	-0.07138728	-0.006345137	WWTR1;WWTR1-AS1
chr17	17942359	17942860	12	0.043121913	-0.057355415	-0.009696483	ATPAF2;GID4
chr11	2398327	2398587	12	0.045182833	-0.083928559	-0.027174465	CD81
chr6	28601271	28601519	11	2.86E-05	0.254357604	0.157070528	NA

chr1	55180710	55181852	11	0.002932471	0.077539821	-3.37E-05	<i>MROH7-TTC4:TTC4</i>
chr9	6412836	6413591	11	0.00955437	-0.061795266	-0.004635054	<i>UHRF2</i>
chr1	120254177	120255104	11	0.011702783	0.053260704	0.010795672	<i>PHGDH</i>
chr1	1356442	1357361	11	0.015873226	0.098316524	-0.010499811	<i>ANKRD65:TMEM88B</i>
chr4	78978537	78979207	11	0.015965145	-0.05766692	0.004153634	<i>FRAS1</i>
chr6	111136363	111136979	11	0.017844614	-0.099311799	-0.028952637	<i>AMD1;CDK19</i>
chr3	35720482	35721284	11	0.018569178	-0.180130237	-0.031102335	<i>ARPP21</i>
chr18	48085453	48086416	11	0.021087391	0.08943874	-0.000958752	<i>MAPK4</i>
chr11	57434942	57435627	11	0.021120397	-0.070473237	-0.013518406	<i>ZDHHC5</i>
chr3	126242808	126243401	11	0.021287941	0.08803036	0.022313838	<i>CHST13</i>
chr19	38396943	38397769	11	0.022808182	-0.070288937	-0.002966208	<i>SIPAL3;WDR87</i>
chr11	67120966	67121634	11	0.023126666	-0.048066771	-0.01252725	<i>LOC100130987;POLD4</i>
chr6	30483837	30484429	11	0.024512983	0.039246155	0.002292975	<i>NA</i>
chr4	25235280	25235765	11	0.031661094	0.091701542	0.001092065	<i>PI4K2B</i>
chr1	1850733	1851165	11	0.033109138	0.057473738	-0.004041445	<i>TMEM52</i>
chr6	30294441	30294980	11	0.033389391	-0.104449827	-0.024241452	<i>17;HCG18;TRIM39;TRIM39-RPP21</i>
chr6	32975702	32976131	11	0.035004938	0.101091499	0.037900362	<i>HLA-DOA</i>
chr3	43731886	43732329	11	0.044622546	-0.052645856	-0.010326288	<i>ABHD5</i>
chr7	19156902	19157739	10	5.62E-05	0.090539765	0.016232795	<i>TWIST1</i>
chr7	123672780	123673926	10	0.000926147	0.072183541	0.027866358	<i>TMEM229A</i>
chr7	45960243	45961126	10	0.00351408	0.09706264	0.026614423	<i>IGFBP3</i>
chr6	34433139	34433789	10	0.004237731	0.097806496	0.023051143	<i>PACSN1</i>
chr12	119419106	119419786	10	0.004796315	0.082392967	0.021206573	<i>SRRM4</i>
chr1	113051315	113052167	10	0.008985777	0.049679554	-0.003342945	<i>WNT2B</i>
chr13	27334723	27335542	10	0.009952802	-0.066917678	-0.007038999	<i>GPR12</i>
chr8	74206178	74206966	10	0.010934322	-0.109073169	-0.029651936	<i>RDH10;RPL7</i>
chr11	6947552	6948211	10	0.012585344	-0.078745837	-0.014774358	<i>ZNF215</i>
chr15	43476923	43477701	10	0.015712425	-0.094750832	-0.017182787	<i>CCNDBP1;TMEM62</i>
chr10	43892412	43893073	10	0.01623815	-0.099142707	-0.040102676	<i>HNRNPF</i>
chr13	98794353	98795021	10	0.02157135	-0.065115039	-0.021924104	<i>FARP1</i>
chr11	110167556	110167871	10	0.025514214	-0.069428206	-0.018568867	<i>RDX</i>
chr15	83952309	83953068	10	0.025612292	-0.067226892	-0.017991285	<i>BNC1</i>
chr4	171010728	171011502	10	0.028608668	0.056658159	0.020890815	<i>AADAT</i>
chr21	34443443	34444245	10	0.03054632	0.076630332	0.014907633	<i>OLIG1</i>

chr5	114937648	114938277	10	0.030584774	0.0724346	0.041821949	<i>TICAM2;TMED7-TICAM2</i>
chr16	30124803	30125403	10	0.032424872	0.07287271	-0.003825376	<i>BOLA2;GDPD3</i>
chr4	7044595	7044990	10	0.036046772	-0.054010136	-0.024867009	<i>CDC96;LOC100129931;TADA2B</i>
chr6	33160604	33161107	10	0.036502674	0.06941348	-0.009643855	<i>COL11A2</i>
chr11	61129344	61129696	10	0.039639971	-0.08923759	-0.01801855	<i>CYB561A3;TMEM138</i>
chr8	101224915	101225902	9	4.91E-06	-0.172220748	-0.10332275	<i>SPAG1</i>
chr6	31238388	31239411	9	5.10E-05	0.308505733	0.09685245	<i>HLA-B;HLA-C</i>
chr12	104608583	104609980	9	0.002307101	-0.062680604	-0.012487484	<i>TXNRD1</i>
chr11	94134015	94134756	9	0.005789294	0.076191152	0.021323954	<i>GPR83</i>
chr6	28979210	28979498	9	0.009302724	0.137506691	0.029835735	<i>NA</i>
chr6	31587470	31588053	9	0.0098945	-0.106398279	-0.011865661	<i>PRRC2A;SNORA38</i>
chr22	17488875	17489367	9	0.011264759	0.154522481	0.068590701	<i>GAB4</i>
chr3	113160490	113161177	9	0.012876563	0.111240084	0.072405584	<i>CFAP44</i>
chr7	100171610	100172801	9	0.013805048	0.109651623	0.056723712	<i>LRCH4;SAP25</i>
chr7	95401695	95402528	9	0.016522733	0.093825475	0.002086164	<i>DYNC111</i>
chr12	130821962	130822674	9	0.017165502	0.216725374	0.131503087	<i>PIWIL1</i>
chr1	242011104	242011587	9	0.020631027	-0.045996923	-0.002199165	<i>EXO1</i>
chr20	39765363	39765965	9	0.023163098	0.035628935	-0.005564896	<i>PLCG1</i>
chr14	71276348	71277192	9	0.029182312	-0.103872823	-0.046029856	<i>MAP3K9</i>
chr7	11012871	11013450	9	0.031262096	0.094839711	-0.012659232	<i>PHF14</i>
chr20	19866743	19867423	9	0.033183289	-0.073500786	-0.003342623	<i>RIN2</i>
chr17	46507705	46508105	9	0.033911991	-0.066215853	-0.030013996	<i>SKAP1</i>
chr8	74791016	74791574	9	0.037071973	0.040484535	0.003297309	<i>UBE2W</i>
chr6	31869518	31869588	9	0.041659012	0.028521283	-0.0107471	<i>C2;EHMT2;ZBTB12</i>
chr1	27114317	27114614	9	0.046948015	-0.100967558	-0.042147058	<i>PIGV</i>
chr1	159869902	159870326	8	0.001707112	-0.118826456	-0.05231167	<i>CFAP45</i>
chr4	146401747	146402992	8	0.004019554	0.104284553	0.013129813	<i>SMAD1</i>
chr2	731073	731594	8	0.004196944	0.278170015	0.209350176	<i>NA</i>
chr16	3155859	3156779	8	0.006442768	-0.135976093	-0.019294934	<i>NA</i>
chr16	49888100	49889831	8	0.010775673	-0.091088029	-0.021390446	<i>ZNF423</i>
chr2	231728721	231729329	8	0.014793022	-0.171368827	-0.060842406	<i>ITM2C</i>
chr22	43040446	43041232	8	0.017844614	-0.119540479	-0.049693223	<i>ATP5MGL;CYB5R3</i>
chr4	154387421	154388378	8	0.018708085	-0.061215416	-0.027982417	<i>TMEM131L</i>
chr20	17206529	17206999	8	0.019247515	0.062946951	0.019893576	<i>PCSK2</i>

chr18	51884797	51885214	8	0.024222294	-0.082634984	-0.020073707	<i>C18orf54;STARD6</i>
chr15	90319155	90319680	8	0.02647946	0.076412592	0.036178563	<i>MESF2</i>
chr14	21152452	21152897	8	0.030847998	-0.032396742	0.00617328	<i>ANG;RNASE4</i>
chr8	810529	811351	8	0.031613936	-0.082368081	-0.005259187	NA
chr2	241497412	241497727	8	0.033183289	-0.192827962	-0.080325561	<i>ANKMY1;DUSP28</i>
chr19	50879393	50879698	8	0.035555939	0.053633483	0.003563446	<i>NR1H2</i>
chr17	35767072	35767582	8	0.036508753	-0.059482547	-0.00810474	<i>ACACA;TADA2A</i>
chr17	53828263	53828610	8	0.036682975	-0.058499237	-0.033279795	<i>PCTP</i>
chr5	43483681	43484146	8	0.037071973	-0.066316387	-0.006491104	<i>TMEM267</i>
chr19	663093	663602	8	0.03763049	-0.056848611	-0.031823062	<i>RNF126</i>
chr2	74375128	74375507	8	0.042494977	0.086600113	-0.012003317	<i>BOLA3;BOLA3-AS1</i>
chr3	12837899	12838266	8	0.043842809	0.035396297	0.009083647	<i>CAND2</i>
chr5	42423228	42424075	7	7.77E-05	0.094547178	0.030842479	<i>GHR</i>
chr1	161049147	161050227	7	0.000624399	0.210309215	0.067863023	<i>NECTIN4</i>
chr19	10712866	10713543	7	0.001175357	0.111891561	0.038247547	<i>SLC44A2</i>
chr19	1465962	1467032	7	0.001176746	-0.180770992	-0.099097318	<i>APC2;C19orf25</i>
chr4	1496334	1497223	7	0.005787251	-0.130725142	0.00334205	NA
chr19	39402823	39403373	7	0.010661068	-0.13675817	-0.074851436	<i>CCER2</i>
chr8	95274566	95274933	7	0.010808047	-0.118547535	-0.026024397	<i>GEM</i>
chr12	6976655	6977392	7	0.013138205	-0.03633027	-0.014748903	<i>TP11</i>
chr7	16505094	16505664	7	0.015364516	-0.172379547	-0.10633277	<i>SOSTDC1</i>
chr16	31119067	31119650	7	0.018319418	-0.159229681	-0.044900986	<i>BCKDK</i>
chr4	122854168	122854532	7	0.01861181	-0.191767291	-0.044647897	<i>TRPC3</i>
chr1	3774827	3775206	7	0.019129526	-0.130708007	-0.082782716	<i>CEP104;DFFB</i>
chr19	42894425	42894906	7	0.020127952	-0.109667812	-0.058800536	<i>CNFN</i>
chr18	21977798	21978109	7	0.020614918	-0.096043681	-0.028976106	<i>OSBPL1A</i>
chr2	101223069	101223620	7	0.021120397	-0.114685953	-0.058700076	NA
chr9	108005984	108006799	7	0.022844274	0.109088342	-0.015263414	<i>SLC44A1</i>
chr17	40428024	40428759	7	0.027378875	-0.086317359	-0.054441294	<i>STAT5B</i>
chr20	11871282	11871743	7	0.028373534	0.168045916	0.070976842	<i>BTBD3</i>
chr11	107729641	107730039	7	0.031798627	-0.066994979	-0.017970957	<i>SLC35F2</i>
chr2	144694581	144695257	7	0.03217355	-0.051798085	-0.011130018	NA
chr11	126225276	126225951	7	0.032216587	-0.075056175	-0.017910727	<i>GSEC;ST3GALA</i>
chr6	124124875	124125371	7	0.033183289	-0.061951499	-0.013263551	<i>NKAIN2</i>

chr5	111092139	111093469	7	0.033295077	0.083558587	-0.01052088	<i>NREP</i>
chr8	120428418	120428898	7	0.034815718	-0.058296848	-0.007742598	<i>CCN3</i>
chr20	35807377	35807784	7	0.03745477	-0.061370229	-0.017688034	<i>MROH8;RPN2</i>
chr4	83719895	83720102	7	0.042923074	-0.109267576	-0.006166339	<i>SCD5</i>
chr14	102771505	102771717	7	0.043746698	-0.090091205	-0.011626841	<i>MOK</i>
chr7	92219279	92219567	7	0.045090688	-0.062780979	-0.016675099	<i>FAM133B</i>
chr8	55533655	55534103	7	0.044631935	0.113555013	0.053733301	<i>RP1</i>
chr11	626729	627612	6	4.94E-05	0.127867502	0.061457867	<i>CDHR5;SCT</i>
chr17	79503292	79504180	6	0.001796119	-0.24227794	-0.082873607	<i>FSCN2</i>
chr10	34061313	34062018	6	0.002002334	-0.142265158	-0.092242859	<i>LINC00838</i>
chr13	19918525	19919394	6	0.003205348	0.202793383	0.106115539	<i>ANKRD26P3;LINC00421</i>
chr16	69154611	69155483	6	0.005741612	0.101070672	0.02097762	<i>CHTF8</i>
chr10	15210662	15211442	6	0.007996067	-0.131241521	-0.061463584	<i>NMT2</i>
chr3	173113110	173113910	6	0.008940976	0.054709444	0.0210243	<i>NLGN1</i>
chr5	112770203	112770721	6	0.008945805	-0.066228884	-0.018254742	<i>MCC;TSSK1B</i>
chr7	4456202	4456592	6	0.010494913	0.182850555	0.114367948	<i>NA</i>
chr2	121301692	121302460	6	0.010757056	-0.136051961	-0.053202384	<i>NA</i>
chr15	39871808	39872186	6	0.010775673	-0.226183866	-0.139496903	<i>THBS1</i>
chr1	40105664	40106248	6	0.012484492	0.120222411	0.038991082	<i>HEYL</i>
chr7	43797547	43798207	6	0.013937261	-0.081812312	-0.036936732	<i>BLVR4</i>
chr7	158059704	158060136	6	0.015225012	0.098852582	0.057342987	<i>PTPRN2</i>
chr7	87257767	87258443	6	0.015712425	0.094253478	0.019687971	<i>ABCY1;RUND3B</i>
chr4	2060934	2061512	6	0.017165502	-0.03294622	0.006149591	<i>NAT8L</i>
chr3	158450208	158450833	6	0.017346598	0.106590183	0.059150488	<i>RARRES1</i>
chr1	40098595	40099015	6	0.018295584	-0.169632011	-0.090756521	<i>HEYL</i>
chr12	109162390	109162748	6	0.019008503	0.077690511	0.019288393	<i>NA</i>
chr1	228657536	228658646	6	0.020687083	0.160739709	0.087891002	<i>NA</i>
chr3	185080816	185081403	6	0.020777476	-0.044487008	-0.007359844	<i>MAP3K13</i>
chr3	195622281	195622940	6	0.021795963	-0.062628141	-0.03194915	<i>TNK2</i>
chr17	1613239	1613880	6	0.024209174	0.046033889	0.016804802	<i>TLCD2</i>
chr6	111303269	111303792	6	0.02783686	-0.086061107	-0.015599693	<i>RPF2</i>
chr6	111195301	111195812	6	0.029360815	-0.081797585	-0.017730802	<i>AMD1</i>
chr13	110521956	110522572	6	0.030341948	0.257310941	0.134976998	<i>NA</i>
chr16	1495040	1495835	6	0.031262096	0.112592576	0.071655672	<i>CCDC154;CLCN7</i>

chr18	59992252	59992517	6	0.03217355	-0.053439806	-0.009230285	TNFRSF11A
chr12	54359712	54360262	6	0.032559751	0.095181277	-0.005147779	HOTAIR
chr19	30303131	30303674	6	0.032993029	-0.045795357	-0.03381184	CNNE1
chr17	46659751	46660002	6	0.033183289	0.09274303	0.044423817	HOXB3;HOXB4;MIR10A
chr17	1958851	1959132	6	0.033617505	-0.064722785	-0.028806801	HIC1
chr7	105264417	105264836	6	0.035203428	0.083246217	0.027758094	ATXN7L1
chr1	111743200	111743537	6	0.036205443	-0.074810336	-0.047639161	DENND2D
chr9	116102304	116102562	6	0.036343346	-0.09243328	-0.033977341	WDR31
chr6	33378502	33379050	6	0.036502674	-0.064512876	-0.024446075	PHF1
chr15	57210395	57210921	6	0.037090817	0.039321129	-0.001436146	LOC145783;TCF12;ZNF280D
chr6	110300099	110300308	6	0.038819353	0.089155299	0.048124021	GRP6
chr20	62439117	62439544	6	0.038930097	0.088135791	0.057128324	ZBTB46
chr3	71633196	71633604	6	0.039490364	0.050381725	0.015612789	FOXP1
chr7	94138547	94138947	6	0.041182301	-0.036324952	-0.006218044	CASD1
chr6	105584691	105585184	6	0.041195903	0.054965288	0.013809348	BVES;BVES-AS1
chr1	109585022	109585487	6	0.042367687	0.061432481	0.010113494	WDR47
chr8	59572451	59572638	6	0.042923074	0.026313188	0.003755562	NSMAF
chr13	78272372	78272443	6	0.043012622	-0.035322594	-0.021968589	MIR3665;SLAIN1
chr7	123389157	123389366	6	0.044434161	-0.071502893	-0.028045936	WASL
chr2	85811236	85811471	6	0.045879721	-0.062942059	-0.040838129	VAMP5
chr6	44310005	44310331	6	0.047115557	-0.060670247	-0.004155439	SPATS1
chr17	55173075	55173766	5	0.000508871	-0.111234013	-0.017476135	AKAP1
chr2	185463209	185463674	5	0.001742829	0.068821733	0.024308036	ZNF804A
chr16	15488936	15489794	5	0.004107446	0.084063346	0.037941491	MPV17L
chr1	246859889	246860416	5	0.007371134	0.209774278	0.101812804	NA
chr17	35656660	35657046	5	0.008685202	-0.119575976	-0.069619925	ACACA
chr16	88821234	88821905	5	0.00966866	-0.151580883	0.010657882	PIEZO1
chr11	64146487	64146871	5	0.010775673	-0.100085576	-0.046382962	NA
chr19	46801193	46801672	5	0.010991402	-0.177158599	-0.111982635	HIF3A;RNU6-66P
chr19	49176277	49176399	5	0.012759079	-0.081218805	-0.050998253	NTN5;SEC1P
chr8	144222015	144222455	5	0.013498256	-0.164914748	-0.122093527	NA
chr13	111521981	111522651	5	0.013875455	-0.118603002	-0.100180248	PRECSIT
chr22	23605330	23605797	5	0.014180864	-0.096450389	0.023792074	BCR;FBXW4P1
chr16	89114613	89114919	5	0.017844614	-0.101490115	-0.088256412	NA

chr15	99408958	99409506	5	0.018358131	-0.138217802	-0.105134899	<i>IGF1R</i>
chr1	209798721	209799353	5	0.018634554	0.076163497	0.040836585	<i>LAMB3;MIR4260</i>
chr18	9101864	9102421	5	0.018728525	0.028194066	0.006420702	<i>NDUFV2</i>
chr6	7142024	7142638	5	0.021336037	0.108040666	0.06717488	<i>RREB1</i>
chr8	106330881	106331317	5	0.021936409	0.110986467	0.0368343	<i>ZFPM2</i>
chr12	52346851	52347184	5	0.023781168	-0.107233405	-0.064031967	<i>ACVR1B</i>
chr17	14207530	14207968	5	0.024512983	0.102073203	0.065144126	<i>HS3ST3B1;MGC12916</i>
chr14	105154557	105154994	5	0.026676169	-0.07816756	-0.049710645	<i>INF2</i>
chr1	202778443	202778869	5	0.027271834	0.177972258	0.091092009	<i>KDM5B;PCAT6</i>
chr6	157931791	157932180	5	0.027920357	0.133915992	0.072288308	<i>ZDHHC14</i>
chr7	102937535	102937788	5	0.028213508	-0.087045186	-0.016756116	<i>PMPCB</i>
chr16	5008216	5008608	5	0.028540655	0.09777836	-0.029406353	<i>SEC14L5</i>
chr17	73824354	73824897	5	0.030772274	-0.151021044	-0.07842078	<i>UNC13D</i>
chr3	87039900	87040452	5	0.031053025	0.0486657	0.028772879	<i>VGLL3</i>
chr3	118865365	118865927	5	0.031798627	-0.066569202	-0.002948711	<i>IGSF11;TEX55</i>
chr11	43333502	43333988	5	0.031958419	0.031369706	-0.003442522	<i>API5</i>
chr10	105428385	105428818	5	0.032156601	-0.123385458	-0.088987174	<i>SH3PXD2A</i>
chr4	1322681	1323433	5	0.032194122	0.110628313	0.057803891	<i>MAEA</i>
chr12	132269563	132269737	5	0.032993029	0.0937075	0.03523455	<i>SFSWAP</i>
chr6	32187918	32188404	5	0.033183289	0.076148398	-0.019737207	<i>NOTCH4</i>
chr6	170337747	170338591	5	0.0335179	0.122554543	0.078656319	<i>NA</i>
chr1	805102	805746	5	0.034399618	-0.116311535	-0.015339412	<i>FAM41C</i>
chr7	158741284	158741817	5	0.035208803	-0.191507887	0.004247693	<i>NA</i>
chr12	56236845	56237315	5	0.035936273	0.12160083	0.021249624	<i>MMP19</i>
chr5	63461566	63461930	5	0.036202459	0.178244781	0.07584025	<i>RNF180</i>
chr16	67966314	67966621	5	0.036682975	0.125530833	0.024963174	<i>CTRL;PSMB10</i>
chr19	10823679	10823913	5	0.037205795	0.077925383	0.054120536	<i>DNM2;QTRT1</i>
chr5	178368071	178368185	5	0.038282955	0.065546581	0.036944951	<i>ZNF454</i>
chr8	4852424	4852654	5	0.039311212	0.074501133	0.034213467	<i>CSMD1</i>
chr11	19262474	19262624	5	0.039826819	-0.026156169	-0.005999187	<i>E2F8</i>
chr6	31895240	31895598	5	0.040739387	-0.083760309	-0.049591313	<i>C2;CFB</i>
chr17	71160864	71161178	5	0.041076	0.106542376	-0.002684612	<i>SSTR2</i>
chr3	140770013	140770345	5	0.041076	0.044174232	0.012101214	<i>SPSB4</i>
chr11	125366499	125367112	5	0.041650715	-0.080117922	-0.015395577	<i>FEZ1</i>

chr3	129147230	129147577	5	0.042133543	0.133986494	0.056296258	<i>EFCAB12</i>
chr19	6333547	6333701	5	0.043608533	-0.076133339	-0.027987433	<i>ACER1</i>
chr7	135194977	135195151	5	0.044900253	0.035515681	0.00265417	<i>CNOT4</i>
chr5	6633481	6633577	5	0.045729919	-0.052139982	-0.006448026	<i>NSUN2;SRD5A1</i>
chr15	74466794	74467158	5	0.045746992	0.167323881	0.080038638	<i>ISLR</i>
chr19	57630446	57630596	5	0.047115557	0.102696399	0.07937893	<i>USP29</i>
chr19	12876846	12877188	4	2.96E-05	-0.613005342	-0.49721534	<i>HOOK2</i>
chr12	125465188	125465696	4	0.001821993	0.101947027	0.041933572	<i>DHX37</i>
chr5	145215445	145215784	4	0.002307101	-0.106678072	-0.069131916	<i>PRELID2</i>
chr6	30525527	30526487	4	0.003028065	-0.083116079	-0.03498628	<i>GNLI;PRR3</i>
chr18	72916012	72916776	4	0.004072894	0.214897568	0.157737259	<i>ZADH2</i>
chr4	184243582	184243754	4	0.004107446	-0.068361824	-0.041951332	<i>CLDN22;CLDN24</i>
chr2	183387885	183388632	4	0.004930342	-0.153479383	-0.0819455	<i>PDE1A</i>
chr7	2124459	2125029	4	0.005462329	0.107986736	0.067972251	<i>MAD1L1</i>
chr1	58716532	58717107	4	0.005744929	0.128776329	0.028764476	<i>DAB1</i>
chr12	2031262	2031922	4	0.005789294	0.255029956	0.13053044	<i>CACNA2D4</i>
chr21	16436121	16436497	4	0.010777842	0.037359403	0.018537103	<i>NRIP1</i>
chr13	114053863	114054286	4	0.011315933	0.100846557	0.030155368	<i>NA</i>
chr12	86658268	86659008	4	0.011318983	0.194435373	0.098590925	<i>MGAT4C</i>
chr3	49170498	49170794	4	0.012378905	-0.194277805	-0.139046303	<i>LAMB2</i>
chr1	26490540	26491047	4	0.013805048	-0.111103722	-0.091513427	<i>NA</i>
chr7	1961785	1962389	4	0.013902841	0.171232219	0.083642807	<i>MAD1L1</i>
chr7	102715559	102716072	4	0.015364516	-0.038253225	-0.016803391	<i>ARMC10;FBXL13</i>
chr17	43508250	43508894	4	0.015712425	-0.10174792	-0.055466505	<i>ARHGAP27</i>
chr11	126294215	126294752	4	0.016862521	-0.084280222	-0.010371504	<i>KIRREL3;ST3GALA</i>
chr1	159435469	159436015	4	0.017346327	-0.100515627	0.009585296	<i>NA</i>
chr7	100304043	100304693	4	0.017765518	0.071411563	-0.00323373	<i>POP7</i>
chr12	1753440	1754299	4	0.017852799	-0.147519269	-0.105024046	<i>WNT5B</i>
chr10	11485460	11485771	4	0.018207705	0.067743333	0.039098865	<i>NA</i>
chr16	87492138	87492801	4	0.020770083	0.0620845	0.016828856	<i>ZCCHC14</i>
chr14	24583056	24583689	4	0.02157135	-0.074686284	-0.015209254	<i>DCAF11;NRL</i>
chr5	307591	307899	4	0.022400932	-0.051077497	-0.030631722	<i>AHRR;PDCD6</i>
chr17	7233150	7234027	4	0.023201933	-0.157589383	-0.064895397	<i>NEURL4</i>
chr10	112836688	112837240	4	0.026836527	0.02931908	0.014555425	<i>ADRA2A</i>

chr9	127054095	127054510	4	0.027559543	0.07937333	0.009171466	NEK6
chr10	75911181	75911703	4	0.028373534	-0.059206656	-0.007912137	ADK;AP3M1
chr16	15702153	15702420	4	0.028438037	-0.115168064	-0.058874553	MARF1
chr19	40948296	40948697	4	0.029071873	0.037452821	0.016820711	SERTAD3
chr12	56638534	56638934	4	0.029182312	-0.111865663	-0.03824832	ANKRD52
chr16	50186775	50186996	4	0.029416592	-0.078441215	-0.050361612	TENT4B
chr16	31117067	31117318	4	0.030371363	0.076271896	0.023177095	BCKDK
chr15	91414797	91415532	4	0.030772274	0.119649514	0.02465318	FURIN
chr4	103266893	103267084	4	0.031613936	-0.047313965	-0.007770001	SLC39A8
chr19	12846438	12846841	4	0.031613936	-0.091238696	0.01678708	GET3;TRIR
chr1	92946700	92947332	4	0.033331197	-0.143583145	-0.094310337	GFII
chr1	160313545	160314350	4	0.033389391	-0.049734414	-0.009588829	COPA;NCSTN
chr12	133417190	133417338	4	0.034494267	0.124188144	0.097224365	CHFR
chr21	45662262	45662813	4	0.035060658	0.061461321	-0.004259087	ICOSLG
chr19	54668230	54668565	4	0.035289159	-0.098408519	-0.049998916	LENG1;TMC4
chr2	239139911	239140182	4	0.036343346	-0.115202709	-0.089349127	LINC02610;TARDBPP3
chr19	49223814	49224033	4	0.036685234	-0.108860551	-0.085803428	MAMSTR;RASIP1
chr19	45457189	45457300	4	0.036869736	-0.053163624	-0.03417238	CLPTM1
chr13	114927579	114927854	4	0.038067836	-0.04846147	-0.029507056	NA
chr6	29895175	29895260	4	0.038346575	-0.27947107	-0.200954025	HCG4B;HLA-G;HLA-H;HLA-J
chr9	130742860	130743022	4	0.038706554	-0.074636514	-0.04388924	FAM102A
chr19	1815917	1816196	4	0.038790556	0.089400713	0.043502618	ATP8B3;MIR1909;REXO1
chr19	2588227	2588479	4	0.03887293	0.12101908	0.006464013	GNMG
chr13	21348012	21348215	4	0.03891868	0.089896473	0.010411149	EEF1AKMT1
chr16	30042330	30042541	4	0.039639971	-0.045665902	-0.026469998	BOLA2;TLCD3B
chr1	15763737	15764095	4	0.039731824	0.047722324	0.003555558	CTRC
chr3	113466193	113466425	4	0.040206122	-0.046826389	-0.034024179	ATP6V1A;NAA50
chr6	109787078	109787360	4	0.040379765	-0.060313711	-0.019149001	MICAL1;ZBTB24
chr14	100842311	100842590	4	0.042380333	-0.034745427	-0.015745906	WARS1;WDR25
chr7	5413872	5414174	4	0.042486297	0.104380585	0.086295672	TNRC18
chr18	55288998	55289231	4	0.042731413	-0.061594277	-0.029449876	NARS1
chr19	8454846	8454938	4	0.043608533	0.023140539	0.002050953	MIR4999;RAB11B;RAB11B-AS1
chr14	94640029	94640495	4	0.044900253	-0.070822956	-0.016024214	PPP4R4
chr22	30116319	30116489	4	0.045117929	-0.087550232	-0.014887881	CABP7

chr2	39351390	39351696	4	0.045726881	-0.032272667	0.002782603	<i>SOS1</i>
chr11	62066533	62066669	4	0.046005284	-0.131623578	-0.073396409	<i>SCGB1D4</i>
chr8	73449506	73449524	4	0.046319335	-0.061384166	-0.034573656	<i>KCNB2</i>
chr7	151574492	151574642	4	0.046888849	-0.050289678	-0.011719877	<i>PRKAG2;PRKAG2-AS1</i>
chr2	176995076	176995088	4	0.046922832	0.075277097	0.059609881	<i>HOXD8</i>
chr6	28497278	28497378	4	0.04718463	-0.122851728	-0.061701655	<i>GPX5</i>
chr5	6868355	6868585	4	0.047689373	0.12411153	0.008522964	<i>NA</i>
chr19	49220102	49220235	4	0.048132553	-0.085253927	-0.059800222	<i>MAMSTR</i>
chr2	102314462	102314495	4	0.048580985	-0.054230157	-0.013451885	<i>MAP4K4</i>
chr17	29649427	29650042	3	0.000607878	-0.115478141	-0.000843546	<i>EV12A;NF1</i>
chr7	2143507	2143942	3	0.001160691	-0.130653602	-0.088760616	<i>MAD1L1</i>
chr20	61448534	61449152	3	0.001999273	-0.123871015	-0.057419568	<i>COL9A3</i>
chr19	13125726	13125988	3	0.00200662	-0.16356157	-0.089476076	<i>NFIX</i>
chr1	58898552	58898793	3	0.003205348	-0.248731165	-0.211267445	<i>DAB1</i>
chr7	1233192	1233469	3	0.003643757	-0.175779877	-0.104069623	<i>NA</i>
chr1	58525572	58525635	3	0.006305067	-0.139067934	-0.091193059	<i>DAB1</i>
chr19	23445741	23446001	3	0.007364431	0.080007874	0.071197034	<i>NA</i>
chr18	47429208	47429391	3	0.009952802	0.10640461	0.005862874	<i>MYO5B</i>
chr11	115266354	115266960	3	0.011804642	-0.088175312	-0.013929197	<i>CADMI</i>
chr20	47364640	47365070	3	0.012838218	0.207486184	0.149866637	<i>PREX1</i>
chr15	48253631	48254179	3	0.013220712	0.165488875	0.077579317	<i>NA</i>
chr19	44861370	44861706	3	0.013612977	0.141712304	0.107297182	<i>ZNF112</i>
chr18	24443262	24443344	3	0.015208609	0.065894759	0.045167163	<i>AQP4;AQP4-AS1</i>
chr17	48207508	48207662	3	0.01549907	0.033544198	0.002285202	<i>SAMD14</i>
chr6	151668632	151668841	3	0.015712425	-0.113604856	-0.072493817	<i>AKAP12</i>
chr11	70395310	70395513	3	0.015859785	-0.057264338	-0.031148783	<i>SHANK2</i>
chr12	117100401	117100900	3	0.017241849	-0.088924509	-0.068088066	<i>NA</i>
chr7	38903039	38903457	3	0.01728052	0.077174788	-0.015531632	<i>VPS41</i>
chr3	124777406	124777847	3	0.018317067	0.076257915	-0.003054701	<i>HEG1</i>
chr12	10183850	10184399	3	0.018634554	0.070712844	-0.011943016	<i>CLEC9A</i>
chr10	71243495	71243993	3	0.019094061	-0.076566247	-0.029848723	<i>TSPAN15</i>
chr2	9778653	9778812	3	0.019445134	-0.070669019	-0.034623412	<i>NA</i>
chr20	3063586	3064015	3	0.019923194	-0.038456271	-0.003726242	<i>AVP</i>
chr13	114886883	114887369	3	0.020172484	0.093726599	0.034423835	<i>RASA3</i>

chr17	78472016	78472290	3	0.02154484	-0.112367856	-0.096362986	NA
chr6	79943498	79943796	3	0.022468249	0.030377039	-0.000914654	<i>HMGN3;HMGN3-AS1</i>
chr19	19016467	19016789	3	0.023349981	0.093593286	0.053878263	<i>COPE</i>
chr12	132979486	132979749	3	0.024041264	-0.190276719	-0.064884185	NA
chr12	56754826	56755270	3	0.024926536	-0.116755209	-0.029446609	<i>APOF;STAT2</i>
chr9	99212660	99213506	3	0.025091416	0.022858556	0.010690206	<i>HABP4</i>
chr3	128590524	128590658	3	0.025602428	0.083291748	0.022482346	<i>LOC653712</i>
chr4	3322285	3322833	3	0.025797209	0.125221133	0.035317628	<i>RGS12</i>
chr15	34502580	34502993	3	0.027723753	-0.089733117	-0.034860922	<i>KATNB1</i>
chr9	137519102	137519225	3	0.028095708	0.082546408	0.024354329	NA
chr7	157130291	157130686	3	0.02841223	-0.133562583	-0.091265657	<i>DNAJB6</i>
chr14	21483525	21483641	3	0.028620418	-0.087295261	-0.020627785	NA
chr6	45905338	45905524	3	0.029337458	-0.073179958	-0.039156022	<i>CLIC5</i>
chr16	616827	616935	3	0.03054632	-0.061808266	-0.04703937	<i>NHLRC4;PIGQ</i>
chr6	36515445	36515856	3	0.031661094	-0.067516981	-0.034501581	<i>STK38</i>
chr10	114712217	114712695	3	0.032464046	-0.044715479	-0.040463571	<i>TCF7L2</i>
chr12	53887752	53887964	3	0.032701752	0.067875469	0.057644945	<i>MAP3K12</i>
chr13	86373320	86373792	3	0.032996682	-0.088666048	-0.081677841	<i>SLITRK6</i>
chr12	20962210	20962423	3	0.033617505	-0.082132157	-0.026389446	<i>SLCO1B3</i>
chr12	101869976	101870079	3	0.035208803	0.190057228	0.033726114	<i>SPIC</i>
chr4	180980155	180980552	3	0.035208803	0.035465438	0.034542923	NA
chr13	114830713	114831142	3	0.035598923	-0.032487458	-3.12E-05	<i>RASA3</i>
chr13	103425389	103425346	3	0.035633936	-0.025919158	-0.013482388	<i>TEX30</i>
chr1	22378412	22378629	3	0.036273689	0.08491239	0.042432508	<i>CDC42</i>
chr13	53775035	53775410	3	0.036685234	0.119360605	0.054501328	NA
chr17	47296912	47297130	3	0.036685234	0.110592896	0.075231312	<i>ABI3</i>
chr17	60783129	60783200	3	0.037205795	-0.095984852	-0.011804001	<i>MARCH10</i>
chr1	160160670	160160766	3	0.037274147	-0.072794864	-0.039422974	<i>CASQ1</i>
chr3	143692255	143692356	3	0.037687516	0.01791929	0.013161978	<i>DIPK2A</i>
chr17	74274956	74275137	3	0.038241185	0.070755635	0.0125242	<i>QRICH2</i>
chr10	126308381	126308552	3	0.03843711	-0.138563398	-0.076473217	<i>FAM53B</i>
chr14	102230231	102230722	3	0.03843711	-0.085615885	-0.075626588	<i>PPP2R5C</i>
chr19	58143734	58144245	3	0.038636358	0.119352345	0.063482587	<i>ZNF211</i>
chr17	4901392	4901584	3	0.038876963	-0.028893756	-0.005701415	<i>INCA1;KIF1C</i>

chr1	153589781	153590243	3	0.039028691	0.493781568	0.184059643	<i>S100A14;S100A16</i>
chr12	54347057	54347286	3	0.03982194	0.06159129	0.052733529	<i>HOXC12</i>
chr10	682449	682693	3	0.039987891	-0.107153054	-0.036906692	<i>DIP2C</i>
chr4	99917544	99917608	3	0.040196119	-0.079776075	-0.026283354	<i>METAP1;MIR3684</i>
chr3	43121422	43121668	3	0.040530154	0.071271704	0.049877835	<i>POMGNT2</i>
chr2	230787137	230787493	3	0.040762442	-0.043862649	-0.016638213	<i>FBXO36;TRIP12</i>
chr10	6472750	6472833	3	0.041171693	-0.070338085	-0.040887871	<i>PRKCQ</i>
chr17	27939261	27939327	3	0.041195903	0.057384342	0.002018358	<i>ANKRD13B</i>
chr7	93519220	93519473	3	0.041284085	0.070432762	0.014751347	<i>GNMT1;TFPI2</i>
chr17	77834118	77834299	3	0.041297389	-0.081522356	-0.013590732	<i>NA</i>
chr6	147828624	147828810	3	0.041329653	0.01881004	0.009182121	<i>SAMD5</i>
chr19	35306283	35306369	3	0.041521462	-0.054052665	0.002139337	<i>NA</i>
chr15	60690826	60690974	3	0.042012553	0.042273508	-0.00158534	<i>ANXA2</i>
chr4	38524849	38524875	3	0.042137903	-0.095100843	-0.065287402	<i>NA</i>
chr5	3736618	3736816	3	0.042184045	0.141003266	0.076945392	<i>NA</i>
chr16	49666012	49666504	3	0.042322181	0.128032585	0.093709838	<i>ZNF423</i>
chr7	1894300	1894688	3	0.042417701	0.113599211	0.066653701	<i>MAD1L1</i>
chr8	142310691	142311034	3	0.042494977	0.12170078	0.052673747	<i>NA</i>
chr12	10331894	10332199	3	0.043068273	0.10312795	0.081803516	<i>TMEM52B</i>
chr5	41968376	41968459	3	0.043608533	0.178475916	0.121705667	<i>NA</i>
chr12	656423	656757	3	0.043687895	-0.09655995	-0.044727502	<i>B4GALNT3</i>
chr3	189348936	189349021	3	0.04397688	-0.140939681	-0.117293266	<i>TP63</i>
chr15	69605276	69605418	3	0.044214906	-0.043317952	-0.032267657	<i>PAQR5</i>
chr1	45671987	45672074	3	0.044214906	-0.060476221	-0.027686252	<i>ZSWIM5</i>
chr8	142221164	142221243	3	0.044214906	0.077221351	0.035241952	<i>SLC45A4</i>
chr6	1615992	1616430	3	0.044548534	-0.145224074	-0.110172293	<i>NA</i>
chr20	20036632	20036684	3	0.044578385	-0.154860885	-0.100148811	<i>CFAP61;CRNKL1</i>
chr17	1465813	1466142	3	0.045227113	-0.054111956	-0.029164373	<i>PITPNA</i>
chr14	102484795	102484867	3	0.045227113	0.052919837	0.023933222	<i>DYNC1H1</i>
chr1	109969527	109969611	3	0.04534577	0.043761299	0.003102453	<i>PSMA5</i>
chr12	6473299	6473444	3	0.0458537	-0.092677396	-0.072324217	<i>SCN11A</i>
chr5	134181742	134181967	3	0.04612551	-0.068855514	-0.055821058	<i>C5orf24</i>
chr11	1773018	1773219	3	0.046270631	-0.092302649	-0.077609294	<i>IFTM10;MOB2</i>
chr16	8963642	8963860	3	0.046313053	0.053857473	0.038819204	<i>CARHSP1</i>

chr19	5507274	5507344	3	0.046319335	0.077588733	0.063324737	NA
chr2	231085667	231085735	3	0.046948015	0.10096481	0.019884529	<i>SP110;SP140</i>
chr3	127872092	127872147	3	0.046961223	-0.033390996	-0.017303099	<i>EEFSEC;RUVBL1</i>
chr8	68644689	68644801	3	0.047277315	-0.085614515	-0.009617727	<i>CPA6</i>
chr18	43547530	43547701	3	0.047722262	-0.030553	-0.013626945	<i>EPG5</i>
chr17	76836799	76836835	3	0.04882849	-0.064314042	-0.029184464	<i>USP36</i>
chr12	62653704	62653866	3	0.048993504	0.009867213	0.001174514	<i>TAF12;USP15</i>
chr5	139027535	139027722	3	0.049339429	-0.094095068	-0.026819562	<i>CXXC5</i>
chr9	130487227	130487287	3	0.049383583	-0.101120025	-0.088909339	<i>PTRH1;TTC16</i>

Supplemental Table 8 - All lifestyle specific Differentially Methylated Positions (DMPs)

Log fold change	Average Expression	t-value	P-value	Adj. P-value	B-value	Chromosom	Position	Strand	CpG-Name	UCSC RefGene name
0.193803612	0.681740677	9.33022951	3.34E-15	2.49E-09	23.6715178	chr5	373378	+	cg05575921	AHRR
0.089458236	0.502052675	8.74263182	6.29E-14	2.34E-08	20.7513917	chr19	17000585	-	cg03636183	F2RL3
0.062807746	0.693318329	8.30515271	5.52E-13	1.37E-07	18.5921592	chr19	16998668	+	cg21911711	F2RL3
0.083336995	0.62903076	7.8434826	5.36E-12	7.99E-07	16.3349804	chr2	233284661	-	cg21566642	-
0.07293225	0.467577109	7.86701589	4.78E-12	7.99E-07	16.4493822	chr2	233284934	-	cg01940273	-
0.082181848	0.281667406	7.78234353	7.24E-12	8.91E-07	16.0381351	chr11	86513429	+	cg14391737	PRSS23
0.078959254	0.30069194	7.75257702	8.37E-12	8.91E-07	15.8938087	chr17	38477572	-	cg17739917	RARA
0.041664418	0.686417226	6.66924222	1.51E-09	0.000141032	10.7517395	chr13	30694031	+	cg23508991	-
0.046269909	0.427775422	6.57601105	2.34E-09	0.000193907	10.3215448	chr11	86510915	+	cg11660018	PRSS23
0.043914978	0.409300335	6.30203529	8.33E-09	0.00062081	9.07134284	chr5	369969	+	cg01899089	AHRR
-0.030493525	0.387702544	-6.1894747	1.40E-08	0.000944988	8.56417525	chr5	169144438	-	cg04730794	DOCK2
0.031079071	0.421104216	6.15967141	1.60E-08	0.000992306	8.43055635	chr15	74724918	-	cg00310412	SEMA7A
-0.08590341	0.611707079	-5.9981559	3.32E-08	0.001904	7.71147126	chr15	90345999	-	cg06344992	ANPEP
0.03256167	0.69207816	5.66391498	1.47E-07	0.007827339	6.2523093	chr3	47054668	-	cg18704979	LOC100129354
-0.058856163	0.721651694	-5.6412621	1.62E-07	0.008069468	6.15491762	chr15	90346094	-	cg23432008	ANPEP
-0.026479401	0.829494564	-5.5078207	2.91E-07	0.012223739	5.58530531	chr4	17277892	+	cg09568924	-
-0.031123313	0.822418962	-5.5042503	2.95E-07	0.012223739	5.57016236	chr1	108581659	-	cg12754019	-
-0.076464321	0.588248951	-5.5231184	2.72E-07	0.012223739	5.65024464	chr15	90346089	-	cg02008229	ANPEP
0.057960459	0.560933206	5.47153733	3.40E-07	0.013342801	5.43166212	chr14	77248049	+	cg10387007	VASH1
0.02695419	0.7906757	5.446428	3.79E-07	0.01412785	5.325652	chr14	105859135	+	cg25112002	PACS2
-0.078774849	0.42479436	-5.4310114	4.05E-07	0.014379921	5.26069405	chr3	22412124	+	cg05529343	-
0.021272448	0.856615124	5.39148139	4.81E-07	0.014914567	5.09458632	chr22	18436985	+	cg15991089	MICAL3
0.017024484	0.869007409	5.39466251	4.74E-07	0.014914567	5.10792928	chr15	102196103	+	cg13151645	TARSL2
0.02604807	0.6333338	5.40228	4.59E-07	0.01491457	5.139898	chr1	17914803	+	cg26224358	ARHGEF10L
0.043368153	0.479191092	5.36636878	5.35E-07	0.015946256	4.98940362	chr1	111218287	+	cg07421287	KCNA3
0.02638869	0.6789015	5.3429208	5.92E-07	0.016951385	4.89143542	chr20	3718325	-	cg07888289	HSPA12B
-0.052549464	0.527230073	-5.3154695	6.65E-07	0.018353374	4.77704043	chr17	73824354	-	cg12407791	UNC13D
-0.032732513	0.759185943	-5.2894959	7.43E-07	0.019768027	4.66910369	chr12	113502194	-	cg16719605	DTX1
0.04777264	0.1050803	5.264262	8.27E-07	0.01991374	4.564524	chr22	51066394	+	cg25575065	ARSA
0.036103536	0.633064288	5.27139601	8.02E-07	0.019913743	4.59406096	chr9	130660890	+	cg10529558	ST6GALNAC6
0.0265421	0.297246858	5.25632625	8.55E-07	0.019913743	4.53169085	chr4	1858883	+	cg02481307	LETM1
-0.018442432	0.116163028	-5.2625915	8.33E-07	0.019913743	4.55760901	chr3	27772705	-	cg05583831	-
0.028341888	0.421004434	5.19880539	1.09E-06	0.021387415	4.29455036	chr14	74227875	+	cg13976502	C14orf43
-0.006444261	0.0372681	-5.2070065	1.05E-06	0.021387415	4.32827091	chr19	58962884	+	cg05500574	ZNF324B
-0.014244634	0.078078116	-5.2208377	9.94E-07	0.021387415	4.38520872	chr8	26371428	-	cg09656164	DPYSL2
-0.041665076	0.825712262	-5.2239772	9.81E-07	0.021387415	4.39814467	chr13	40171521	-	cg13714636	LHFP
-0.060472705	0.627160734	-5.2165828	1.01E-06	0.021387415	4.36768357	chr16	70838524	+	cg16450432	-

0.02387941	0.7519493	5.201488	1.08E-06	0.02138742	4.305579	chr8	11308943	+	cg24453881	<i>FAM167A</i>
0.024704979	0.129183752	5.18136473	1.17E-06	0.021867346	4.22294021	chr1	236559595	-	cg15677293	<i>EDARADD</i>
-0.044899983	0.258387701	-5.1843353	1.16E-06	0.021867346	4.23512754	chr7	71868412	+	cg19757435	<i>CALN1</i>
-0.027972017	0.827843678	-5.1727355	1.22E-06	0.022122919	4.18755991	chr1	153722267	-	cg04893758	<i>INTS3</i>
0.045352991	0.622877226	5.15832063	1.29E-06	0.022945143	4.1285334	chr1	4193806	-	cg04902529	-
0.031357207	0.282793655	5.13704294	1.41E-06	0.023415339	4.04157748	chr18	2907322	-	cg06856216	<i>EMILIN2</i>
-0.039263812	0.685254024	-5.13781	1.41E-06	0.023415339	4.04470881	chr4	144206970	+	cg15348902	-
-0.051711729	0.664475164	-5.1451912	1.37E-06	0.023415339	4.07485279	chr17	73824760	-	cg23470227	<i>UNC13D</i>
0.023183388	0.694339982	5.12870568	1.46E-06	0.02372057	4.0075619	chr16	85123342	-	cg07714420	<i>KIAA0513</i>
0.02344066	0.731106266	5.09842949	1.66E-06	0.026349178	3.88430532	chr16	67879671	+	cg16436566	<i>CENPT</i>
-0.018586938	0.098087663	-5.0884001	1.73E-06	0.02663562	3.8435683	chr18	3594243	+	cg06879567	<i>DLGAP1</i>
-0.062518007	0.406780726	-5.0858506	1.75E-06	0.02663562	3.83322023	chr17	73824396	-	cg07010633	<i>UNC13D</i>
0.02393518	0.7399326	5.008159	2.42E-06	0.02906683	3.519343	chr22	25390937	+	cg24930618	-
0.01692666	0.1180891	5.036858	2.15E-06	0.02906683	3.634955	chr22	42679444	+	cg25219329	-
-0.02297482	0.2473052	-5.015708	2.34E-06	0.02906683	3.549717	chr6	5507831	+	cg25781385	<i>FARS2</i>
0.055033991	0.313881153	5.01740648	2.33E-06	0.029066833	3.55655354	chr1	16554984	+	cg11211795	-
0.04861469	0.480699429	5.01445368	2.36E-06	0.029066833	3.54466736	chr16	86155905	+	cg19472984	-
0.030526302	0.736591647	5.05500538	1.99E-06	0.029066833	3.70826463	chr22	37750979	-	cg09474699	<i>ELFN2</i>
0.030123419	0.721488765	5.00838203	2.42E-06	0.029066833	3.52023957	chr22	43044387	+	cg20950843	<i>CYB5R3</i>
0.026450953	0.717258033	5.01053839	2.40E-06	0.029066833	3.52891316	chr5	130598541	+	cg17896976	<i>CDC42SE2</i>
-0.019092657	0.268081941	-5.0154754	2.35E-06	0.029066833	3.54877954	chr1	221924858	+	cg09341616	-
-0.02114592	0.820590203	-5.014144	2.36E-06	0.029066833	3.54342115	chr17	39184878	+	cg19691337	<i>KRTAP1-5</i>
-0.031796079	0.328280819	-5.0401893	2.12E-06	0.029066833	3.64840225	chr10	125754900	+	cg23414330	-
-0.032119434	0.198569088	-5.0090378	2.41E-06	0.029066833	3.52287692	chr1	9488706	+	cg03605773	-
-0.047072886	0.662397401	-5.0594496	1.96E-06	0.029066833	3.7262408	chr4	58027287	-	cg20538211	-
0.086788359	0.554523661	4.99547598	2.55E-06	0.030145161	3.4683736	chr1	92947588	+	cg09935388	<i>GFII</i>
-0.010405455	0.064253414	-4.9881334	2.63E-06	0.030587613	3.43890116	chr18	31802530	-	cg00443596	<i>NOLA</i>
0.022667082	0.759221354	4.97389013	2.79E-06	0.031939289	3.38180378	chr18	42467626	+	cg07864342	<i>SETBP1</i>
-0.047021896	0.384872426	-4.9647843	2.89E-06	0.032657665	3.34535188	chr10	134650743	-	cg21073126	<i>CFAP46</i>
0.052120714	0.482779856	4.95548951	3.01E-06	0.032933064	3.30818513	chr8	144798877	-	cg23562538	<i>MAPK15</i>
0.021714884	0.289181234	4.95658248	2.99E-06	0.032933064	3.31255341	chr15	91416060	+	cg10698959	<i>FURIN</i>
0.052023185	0.444211256	4.94038157	3.20E-06	0.034041537	3.24786242	chr11	86437953	-	cg05533761	-
-0.02230238	0.090044353	-4.9408938	3.19E-06	0.034041537	3.24990582	chr13	46424943	+	cg10775278	<i>SIAH3</i>
0.026986798	0.22417467	4.93550404	3.26E-06	0.034240914	3.22841117	chr12	52416600	-	cg04416566	<i>NR4A1</i>
-0.02919867	0.1679837	-4.922392	3.44E-06	0.0350718	3.17618	chr5	191492	+	cg24696500	<i>LRRC14B</i>
0.016616236	0.126115661	4.92189207	3.45E-06	0.035071804	3.17418878	chr19	52901431	-	cg03478398	<i>ZNF528</i>
-0.01900867	0.865099396	-4.9162887	3.53E-06	0.035071804	3.15189436	chr9	38443393	-	cg13910489	-
-0.019712252	0.132077031	-4.9163415	3.53E-06	0.035071804	3.15210456	chr19	45909670	+	cg03658716	<i>CD3EAP</i>
0.060416895	0.182824945	4.90843922	3.65E-06	0.035276471	3.12068915	chr19	14591033	+	cg20742389	<i>GIPCI</i>
-0.01366479	0.055355175	-4.9093077	3.63E-06	0.035276471	3.12414007	chr10	25171393	+	cg21757973	<i>PRTFDC1</i>

0.023405719	0.869513933	4.90226913	3.74E-06	0.0357144	3.09618141	chr15	40699950	-	cg05294459	<i>IVD</i>
0.022086271	0.794667936	4.89901114	3.79E-06	0.035735197	3.08324816	chr12	104074804	+	cg08230697	<i>STAB2</i>
0.027282517	0.676969134	4.89060791	3.92E-06	0.036070367	3.04991392	chr20	61161073	+	cg07915635	<i>C2orf166</i>
-0.013945602	0.11356745	-4.8911248	3.91E-06	0.036070367	3.0519633	chr6	166402753	+	cg09830769	<i>LINC00473</i>
0.024409999	0.767887174	4.88525817	4.01E-06	0.036417334	3.02871048	chr1	14128574	+	cg14947200	<i>PRDM2</i>
0.021411367	0.779853681	4.87714108	4.14E-06	0.036747315	2.99656577	chr3	148711966	+	cg074447194	<i>GYG1</i>
-0.058989842	0.656861761	-4.8799319	4.10E-06	0.036747315	3.007614	chr17	73824620	-	cg23891399	<i>UNC13D</i>
0.019369773	0.741862081	4.87094811	4.25E-06	0.036810458	2.97206275	chr17	78651438	-	cg23700649	<i>RPTOR</i>
-0.02132483	0.8718184	-4.872456	4.22E-06	0.03681046	2.978027	chr1	160624409	+	cg25307255	-
0.04074803	0.8060288	4.867141	4.32E-06	0.03695619	2.957009	chr2	223435533	+	cg25817435	-
0.029737783	0.148385881	4.85719597	4.49E-06	0.038045951	2.91771925	chr7	1068125	+	cg20007465	<i>C7orf50</i>
-0.055549608	0.643279716	-4.8518896	4.59E-06	0.038439331	2.89677534	chr4	72119734	+	cg13530673	<i>SLC4A4</i>
0.030786978	0.558873864	4.83115243	5.00E-06	0.040453885	2.81506273	chr1	46770585	-	cg16906929	<i>UQCRH</i>
0.024977972	0.329377279	4.83501396	4.92E-06	0.040453885	2.83026241	chr19	1265877	+	cg09834951	-
-0.03070516	0.163641573	-4.8329502	4.96E-06	0.040453885	2.82213825	chr5	191500	+	cg00607051	<i>LRRC14B</i>
-0.05865088	0.2639215	-4.825085	5.12E-06	0.04057961	2.791195	chr2	241976080	-	cg26718213	<i>SNED1</i>
-0.022699236	0.104400362	-4.8270427	5.08E-06	0.040579612	2.79889433	chr14	38064493	-	cg10323697	<i>FOXA1</i>
-0.058146578	0.501398588	-4.8222174	5.18E-06	0.040621906	2.77992157	chr1	14928945	-	cg08538034	<i>KIAA1026</i>
0.038734568	0.643903036	4.80796872	5.49E-06	0.041099286	2.72396487	chr1	17766917	+	cg23913963	<i>RCC2</i>
0.029414423	0.648001847	4.80666593	5.52E-06	0.041099286	2.71885376	chr14	93552128	-	cg05284742	<i>ITPK1</i>
0.023897695	0.698646096	4.81610055	5.31E-06	0.041099286	2.75588721	chr3	157019345	-	cg17717930	<i>VEPH1</i>
-0.031500298	0.087688318	-4.8101776	5.44E-06	0.041099286	2.7326326	chr1	209979470	+	cg22442454	<i>IRF6</i>
0.04623477	0.7450017	4.81024	5.44E-06	0.04109929	2.732878	chr6	30720203	-	cg24859433	-
0.022945495	0.771003193	4.80251092	5.61E-06	0.041382061	2.70255846	chr1	144996134	+	cg23306824	<i>NBPF20</i>
-0.025163753	0.426907653	-4.7917445	5.86E-06	0.042692025	2.66037474	chr15	86315211	-	cg06527213	<i>KLHL25</i>
-0.031130891	0.715690528	-4.785502	6.01E-06	0.042692025	2.63594333	chr20	58940540	+	cg17748896	-
-0.044638855	0.425580238	-4.7851832	6.02E-06	0.042692025	2.63469619	chr7	148001779	-	cg09981964	<i>CNTNAP2</i>
-0.02819161	0.4080928	-4.789436	5.92E-06	0.04269203	2.651339	chr10	102760784	+	cg24760467	<i>LZTS2</i>
0.03851188	0.651752266	4.78229265	6.09E-06	0.042785444	2.62339029	chr16	11681482	-	cg02051924	<i>LITAF</i>
0.02969938	0.7928065	4.777865	6.20E-06	0.0431493	2.606082	chr14	74224613	-	cg25845814	<i>ELMSAN1</i>
-0.017271339	0.169131283	-4.7725434	6.33E-06	0.043676875	2.5852896	chr6	12750392	+	cg04950301	<i>PHACTR1</i>
0.031621893	0.668710168	4.7699933	6.40E-06	0.043723158	2.57533163	chr20	741937	+	cg00432454	<i>C2orf54</i>
0.036838547	0.345553371	4.75938712	6.68E-06	0.045145278	2.53395084	chr11	86510998	-	cg23771366	<i>PRSS23</i>
0.02694408	0.445236764	4.75581082	6.77E-06	0.045145278	2.52001062	chr19	3698926	-	cg15200445	<i>PIP5K1C</i>
0.026508739	0.468576894	4.75491054	6.80E-06	0.045145278	2.51650242	chr3	39193251	-	cg00501876	<i>CSRNP1</i>
0.02650368	0.641597	4.752916	6.85E-06	0.04514528	2.508732	chr7	45120098	+	cg25308878	<i>NACAD</i>
0.0211127	0.7754874	4.750896	6.91E-06	0.04514528	2.500862	chr1	155534509	-	cg27628839	-
0.054587653	0.409719017	4.72478889	7.67E-06	0.045637169	2.3993645	chr15	75350380	+	cg18110140	-
0.034586699	0.552575139	4.71755855	7.90E-06	0.045637169	2.37131658	chr1	206224334	-	cg08709672	<i>AVPR1B</i>
0.031136263	0.722051718	4.73617987	7.33E-06	0.045637169	2.44360716	chr11	126422954	-	cg00524887	<i>KIRREL3</i>

0.025381296	0.777768716	4.74018682	7.21E-06	0.045637169	2.45918606	chr2	99439997	+	cg08517455	<i>C2orf55</i>
0.014376437	0.256984094	4.72288926	7.73E-06	0.045637169	2.39199286	chr4	25865291	-	cg19488028	<i>SEL1L3</i>
-0.008146577	0.041832833	-4.7335157	7.41E-06	0.045637169	2.43325361	chr17	5095455	-	cg17047734	<i>ZNF594</i>
-0.016435216	0.132590975	-4.7321727	7.45E-06	0.045637169	2.42803546	chr15	93388263	-	cg22365178	-
-0.017092821	0.264517177	-4.7328914	7.43E-06	0.045637169	2.43082787	chr2	8007099	-	cg10394117	-
-0.0177893	0.350553495	-4.7312431	7.48E-06	0.045637169	2.42442451	chr4	2691863	-	cg20691469	<i>FAM193A</i>
-0.022893892	0.687464108	-4.7181876	7.88E-06	0.045637169	2.37375571	chr4	37841179	+	cg15217637	<i>PGM2</i>
-0.0269065	0.787251752	-4.7329523	7.42E-06	0.045637169	2.43106442	chr9	118501562	-	cg20074929	-
-0.02879091	0.84264371	-4.7173847	7.90E-06	0.045637169	2.37064243	chr2	150920147	+	cg13823511	-
-0.02926766	0.184451279	-4.7242309	7.69E-06	0.045637169	2.39719908	chr13	24626904	-	cg14814637	<i>SPATA13</i>
-0.030880981	0.837363199	-4.7405193	7.20E-06	0.045637169	2.46047899	chr8	125953232	-	cg02315696	<i>LOC157381</i>
-0.030997127	0.4176583	-4.7269997	7.60E-06	0.045637169	2.40794593	chr2	103423288	+	cg19412959	<i>TMEM182</i>
0.014299298	0.152601433	4.71173694	8.08E-06	0.045967973	2.34875309	chr17	77816034	+	cg14970515	-
-0.014191343	0.194066784	-4.7133374	8.03E-06	0.045967973	2.35495429	chr15	70929081	-	cg01251686	<i>SALRNA2</i>
0.042685712	0.55232304	4.70872914	8.18E-06	0.046172024	2.33710229	chr6	32118312	-	cg08123207	<i>PRRT1</i>
0.036113706	0.796693763	4.70282897	8.38E-06	0.046514646	2.31426148	chr10	101914678	+	cg18786841	<i>ERLIN1</i>
-0.029639655	0.723986625	-4.7012596	8.43E-06	0.046514646	2.30818906	chr12	131715773	+	cg09717146	-
-0.01756749	0.1048627	-4.704248	8.33E-06	0.04651465	2.319752	chr8	53478706	-	cg26021627	<i>FAM150A</i>
0.02698857	0.6825783	4.695248	8.63E-06	0.04729492	2.284942	chr13	111227596	-	cg24670947	-
-0.015899956	0.083717347	-4.6928341	8.72E-06	0.047404507	2.27561056	chr14	38064490	-	cg03026462	<i>FOXA1</i>
0.049126206	0.643459049	4.67767456	9.26E-06	0.048501959	2.21708681	chr5	399360	-	cg21161138	<i>AHRR</i>
0.026553897	0.83922332	4.68014061	9.17E-06	0.048501959	2.22659889	chr12	105420356	-	cg16527105	<i>ALDH1L2</i>
0.018424213	0.806549702	4.67843098	9.23E-06	0.048501959	2.22000415	chr15	78381084	-	cg20001830	-
-0.013513887	0.060036022	-4.6763497	9.31E-06	0.048501959	2.2119778	chr3	157261086	-	cg06827247	<i>C3orf55</i>
-0.028142673	0.701805483	-4.6816021	9.12E-06	0.048501959	2.23223781	chr8	49607937	-	cg05151268	<i>LOC101929268</i>
-0.035385689	0.455754817	-4.6824087	9.09E-06	0.048501959	2.23535015	chr11	62344917	+	cg16107565	<i>TUT1</i>
0.027551943	0.692360701	4.67446707	9.38E-06	0.048527775	2.20471965	chr7	75891115	+	cg11145108	<i>SRRM3</i>
0.013745456	0.854736143	4.66838956	9.61E-06	0.049373737	2.1813013	chr17	25819427	-	cg16465695	<i>KSRI</i>

Supplemental Table 9 – Lifestyle-specific Differentially Methylated Positions (DMPs) correlation analysis
 Correlation analysis top DMPs - obesity specific phenotypes and scores (*p*-values, correlation coefficient *r*)
 total discovery cohort

UCSC RefGene name	CpG-name	Age (years)		HbA1c (%)		HDL (mmol/l)		LDL (mmol/l)		Apolipoprotein A1 (g/dl)		Triglycerides (mmol/l)		Glucose (mmol/l)		Insulin (µmol/l)		BMI (kg/m ²)		Waist circumference (cm)		WHR		Diet score		Physical activity score		Smoking score		Alcohol score		Lifestyle score	
		<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>		
-	cg1940273	0.72766168	-0.03619589	0.197400656	-0.13342198	0.013415853	0.25286733	0.38309221	-0.09051148	0.029975437	0.2282204	0.003423	-0.30764741	0.089637399	-0.17511058	0.027159674	-0.2267028	0.156247708	-0.14661729	0.003255692	-0.29891718	8.25E-05	-0.39278045	1.87E-08	-0.53811408	3.69E-11	-0.61394682	2.90E-13	-0.66162598	0.020386197	-0.23766721	2.50E-12	-0.64143973
<i>ANPEP</i>	cg20280229	0.032231335	-0.00884157	0.390394702	-0.089125787	0.033439955	-0.21736434	0.33132667	0.100788239	0.058473721	-0.19484284	0.004068452	0.29222754	0.34722728	0.12308254	0.13493991	0.154671214	0.117721007	0.161587614	0.059403189	0.194142667	0.043123689	0.207983471	4.58E-05	-0.405459172	5.02E-06	0.4489945	1.47E-07	0.308152416	0.007662448	0.272086615	4.27E-07	0.491392465
<i>F2RL3</i>	cg18361883	0.070191362	0.030885256	0.075791342	-0.18389802	0.02467201	-0.230417366	0.038678208	-0.22164738	0.02408192	0.231177249	0.07145212	-0.21430441	0.807380056	-0.02534563	0.166425157	-0.14313571	0.539099967	0.063807738	0.042295446	-0.20879745	0.030691822	-0.29511057	1.61E-11	-0.62770097	1.93E-10	-0.59560370	2.22E-16	-0.71992288	0.003246008	-0.2960653	3.66E-14	-0.67964869
	cg05529343	0.752148561	0.03282702	0.544378134	-0.06296721	0.207078469	-0.12413477	0.022988043	0.231505115	0.22743616	-0.1250295	0.104500631	0.167977227	0.165739965	-0.14348888	0.47360111	0.074407923	0.242258891	-0.03418334	0.495878883	0.070699858	0.059485776	0.194080887	9.63E-05	0.389150534	1.19E-05	0.432734616	3.00E-08	0.531465757	0.058271775	0.194996173	7.01E-07	0.481322094
<i>AHR</i>	cg05575921	0.65918099	0.045833139	0.32445274	-0.10218403	0.03915435	0.212008949	0.16553494	-0.14343384	0.058578607	0.194763759	0.005661684	-0.28181664	0.179942819	-0.03726549	0.240664424	-0.121543	0.666993705	-0.0471541	0.087462347	-0.17629106	0.005618064	-0.28210362	5.52E-11	-0.6099851	1.07E-11	-0.62699583	0	-0.75112225	0.00602232	-0.2773724	2.66E-15	-0.7037046
<i>ANPEP</i>	cg06344992	0.644613318	0.047913413	0.059274313	0.194239212	0.009819608	-0.26370382	0.08441189	0.177986749	0.03155802	-0.22077485	0.001861981	0.315217178	0.059138468	0.194236116	0.220674057	0.12682628	0.03855998	0.19477771	0.015091232	0.248693086	0.08002104	0.27499151	2.38E-05	0.41895768	1.34E-06	0.472449653	8.75E-08	0.515935197	0.003030662	0.30108384	1.34E-07	0.509563061
<i>UNC13D</i>	cg07010633	0.907040001	0.02139753	0.624376119	0.049417491	0.697202753	-0.04116725	0.033095964	0.21888728	0.025088961	-0.00499817	0.006505032	0.192312802	0.302064184	0.10699492	0.81554703	0.02451145	0.655661447	-0.04633837	0.611519342	0.052772324	0.308197894	0.105654	0.025878163	0.22858244	2.41E-06	0.462290795	1.42E-05	0.429250399	0.018339348	0.48186757	1.39E-05	0.429744827
<i>KIAA1026</i>	cg08538034	0.08230376	0.187889317	0.025496929	0.227719511	0.04745129	-0.2039166	0.015221031	0.483831921	0.061700633	-0.0240957	0.017912183	-0.243970466	0.536609964	0.066807623	0.72423161	0.09233835	0.272771601	-0.11280958	0.56585557	0.059645291	0.05756259	0.281244013	0.00392139	0.356436851	2.94E-05	0.422133312	2.83E-06	0.49392925	0.108265483	0.0582817	7.87E-06	0.4406245
<i>GFI1</i>	cg09935388	0.775827301	0.02960323	0.186312066	-0.13676244	0.05766648	0.195458364	0.110579773	-0.1647646	0.014553049	0.249994158	0.024735473	-0.23032657	0.144613003	-0.15081137	0.030075068	-0.22269649	0.158382685	-0.14587326	0.040871132	-0.21022798	0.020887352	-0.23711769	3.74E-05	-0.40970906	0.00010383	-0.38767077	9.24E-08	-0.1511535	0.016145622	-0.24625649	1.79E-06	-0.46747212
<i>VASH1</i>	cg10887007	0.293833838	-0.0882228	0.037620985	-0.21365568	0.059599376	0.193727952	-0.223409524	-0.12608402	0.064644267	0.190353729	0.046173366	-0.2030951	0.47734759	0.07378074	0.39291137	-0.08865528	0.984746521	-0.00198784	0.044753124	-0.20641988	4.07E-05	-0.40798423	3.51E-05	-0.41103268	1.37E-06	-0.47209768	3.33E-09	-0.56112085	0.000215445	-0.37005077	2.57E-08	-0.53362862
<i>MLLAA</i>	cg12530673	0.199729436	0.132737734	0.599319124	0.0109110241	0.010705387	-0.26975281	0.06239465	0.189901152	0.014258956	-0.25072287	0.19296654	0.134852084	0.673590221	0.044777053	0.397773225	0.08751373	0.55316865	0.061571226	0.26123951	0.11641391	0.026777761	0.22735344	1.95E-05	0.422983106	1.35E-05	0.4320212	1.81E-05	0.42898394	0.008614202	0.28119698	3.82E-06	0.454003477
<i>FRS32</i>	cg14391737	0.85711741	0.019175715	0.172010882	-0.144129159	0.073240438	0.184641453	0.363861218	-0.04008649	0.114057386	0.163398242	0.01236217	-0.33661498	0.10472164	-0.12665331	0.207066917	0.13861888	0.721351082	0.03707006	0.064494984	-0.0045876	0.00069708	-0.3421013	3.41E-07	0.40497987	1.83E-10	0.60276713	1.84E-12	-0.6443385	0.001708336	-0.34333978	5.99E-12	-0.63387047
<i>RARA</i>	cg17739917	0.204029227	-0.13148927	0.062346615	-0.19198278	0.040875242	0.210223794	0.264638108	-0.11589355	0.056300309	0.196360132	0.026223879	-0.25744512	0.680012816	-0.05329174	0.296043951	-0.13091077	0.9920258035	-0.00103795	0.06038017	-0.19341627	0.000220471	-0.37056104	8.52E-08	-0.51633116	2.30E-09	-0.5688489	1.18E-13	-0.66963994	0.003472951	-0.2697244	1.02E-11	-0.62738651
<i>GIP1</i>	cg20742489	0.52046166	-0.08824283	0.395106573	-0.08824633	0.833495956	0.018666571	0.500852917	0.06993699	0.022845048	0.01069716	0.17435762	-0.14053144	0.416790125	0.084277035	0.749726086	-0.03315873	0.486254391	0.07230232	0.71602034	0.03774352	0.026293857	-0.22796379	6.15E-05	-0.39915523	4.22E-06	-0.45218685	4.03E-06	0.45301054	0.299914272	-0.1083572	4.25E-06	-0.45205315
<i>EP300</i>	cg21166642	0.887238831	0.01742904	0.88415902	-0.08987353	0.08313249	0.17316445	0.559844994	-0.04950876	0.04088212	0.202835262	0.05337341	-0.28380828	0.23157882	0.12390235	0.069627929	0.18697563	0.18547809	-0.1369979	0.000868738	-0.2167068	0.000348097	-0.5930983	5.90E-08	-0.52414161	7.52E-10	-0.57963439	2.70E-12	-0.64088112	0.000398404	-0.35616917	8.92E-12	-0.62784225
<i>F2RL3</i>	cg21911711	0.120067258	-0.16057636	0.00768342	-0.27206938	0.081837109	0.179456313	0.010171008	-0.26250618	0.145973385	0.160308174	0.030700876	-0.29504598	0.25716053	-0.08277431	0.297680297	-0.10796408	0.721384507	-0.03706542	0.04983652	-0.20182761	0.000351686	-0.53911839	4.66E-10	-0.58530667	1.71E-11	-0.62205608	1.05E-13	-0.67061387	0.018368516	-0.24154007	4.59E-13	-0.65744559
<i>ANPEP</i>	cg23432008	0.97715927	0.176880431	0.13914635	0.081203569	0.17982251	0.572588625	0.058616298	0.057877018	-0.19529715	0.034667694	0.216992455	0.051531153	0.300832708	0.10001201	0.169630036	0.028438971	0.2348994	0.020273628	0.237874404	0.03164658	0.221403689	0.00012705	-0.38312861	1.83E-05	0.42424633	2.67E-07	0.498868281	0.000859243	0.346055319	7.97E-07	0.481198887	
<i>UNC13D</i>	cg23891399	0.945339637	-0.00712842	0.684639063	-0.04220938	0.322999824	-0.10249003	0.029408224	0.223578031	0.547982057	-0.06240543	0.062001848	0.192231421	0.57690438	0.057897909	0.565254459	-0.05973881	0.587724086	-0.05632353	0.599807564	0.054512347	0.070994758	0.186141737	0.003032876	0.301036438	2.23E-05	0.420339256	0.000173284	0.376002977	0.001416334	0.322878644	3.32E-05	0.412153395
<i>SNEI1</i>	cg26718213	0.197696047	-0.13333487	0.907100857	0.012132163	0.15296801	-0.147775718	0.609446461	0.053076552	0.14355197	-0.15120632	0.203090999	0.131524789	0.34993339	0.09695745	0.328519524	0.101331492	0.695808214	0.040635598	0.319216888	0.103288179	-0.1308622	0.156110308	8.49E-05	0.392130334	4.25E-05	0.40701809	3.97E-05	0.40848263	0.187385843	0.136433376	2.59E-05	0.417261854

Supplemental Table 10 - Differentially Methylated Regions (DMRs) of the healthy living subjects

Chromosome	Start	End	Number CpGs	Min smoothed FDR	Max difference	Mean difference	UCSC RefGene name
chr11	368351	369810	22	6.64E-18	0.065163213	0.023335767	<i>B4GALNT4</i>
chr7	27142100	27144595	25	4.49E-13	-0.081273886	-0.031216228	<i>HOXA2</i>
chr5	1724892	1726753	11	2.45E-12	-0.071439316	-0.048098768	NA
chr2	70311984	70313833	12	1.22E-11	0.075512447	0.028335816	<i>PCBP1;PCBP1-AS1</i>
chr3	148803510	148805294	30	5.92E-10	-0.050393453	-0.007758352	<i>HLTF;HLTF-AS1</i>
chr8	143545390	143546893	10	3.95E-09	-0.066684942	-0.030342854	<i>ADGRB1</i>
chr16	302852	304120	5	8.07E-09	0.077970945	0.049768236	<i>FAM234A;LUC7L</i>
chr4	5021111	5022001	9	1.44E-08	-0.078323055	-0.03084229	<i>CYTL1</i>
chr4	74718978	74719306	6	1.79E-08	-0.079009565	-0.046120369	<i>PF4V1</i>
chr16	102920	104661	15	2.05E-08	-0.022923118	-0.011465236	<i>POLR3K;SNRNP25</i>
chr18	47019331	47019823	3	2.05E-08	0.247069267	0.082244409	<i>RPL17;RPL17-C18orf32;SNORD58A;SNORD58B;SNORD58C</i>
chr17	40949811	40950659	4	3.72E-08	-0.058045636	-0.021454985	<i>CNTD1;COA3</i>
chr17	73823769	73825227	7	5.32E-08	-0.066076979	-0.036474972	<i>UNC13D</i>
chr1	89459504	89459897	4	7.95E-08	-0.092231368	-0.065402236	<i>KYAT3;RBMXL1</i>
chr16	85368682	85369142	4	1.19E-07	0.081358412	0.067701301	NA
chr16	1185381	1186286	7	1.22E-07	0.071358273	0.021455503	NA
chr13	96204854	96206104	12	1.49E-07	-0.103001215	-0.016609448	<i>CLDN10</i>
chr8	49426532	49427684	5	1.62E-07	-0.161721055	-0.093448573	NA
chr6	33043138	33044345	7	1.62E-07	-0.035486502	-0.013521517	<i>HLA-DPA1;HLA-DPB1</i>
chr15	22833149	22833975	12	1.78E-07	-0.049684644	-0.024253755	<i>TUBGCP5</i>
chr11	2292361	2293665	34	2.27E-07	-0.05826388	-0.011684735	<i>ASCL2</i>
chr17	81060149	81060259	3	6.42E-07	-0.181799916	-0.156378516	NA
chr11	44331978	44333192	37	7.87E-07	0.030608729	0.006881931	<i>ALX4</i>
chr10	123356926	123357993	8	8.70E-07	0.046117035	0.011791043	<i>FGFR2</i>
chr4	54965109	54965829	3	8.81E-07	0.025923365	0.005993457	<i>GSX2;PDGFRA</i>
chr16	90015428	90016551	6	9.41E-07	0.095910751	0.051408837	<i>DEF8</i>
chr17	55962155	55963458	7	2.06E-06	-0.089775517	-0.043770979	<i>CUEDC1</i>
chr16	54227790	54228582	8	2.28E-06	-0.063343598	-0.031653407	NA
chr1	152595322	152596177	8	3.43E-06	0.05777368	0.007426018	<i>LCE3A</i>
chr1	203198757	203199023	3	3.49E-06	0.062061134	0.035564294	<i>CHIT1</i>
chr16	75299270	75300795	13	3.52E-06	-0.024622473	0.004142489	<i>BCAR1</i>
chr6	168630207	168630378	3	3.67E-06	-0.039912491	-0.028450128	NA
chr5	54281198	54281733	9	4.27E-06	-0.058174811	-0.036360656	<i>ESM1</i>
chr11	72533202	72533664	4	4.31E-06	0.080214369	0.052971526	<i>ATG16L2</i>
chr12	122018375	122020205	21	4.46E-06	0.029845887	0.009664682	<i>KDM2B</i>
chr16	2042310	2043558	5	4.69E-06	-0.057586683	-0.011061699	<i>SYNGR3</i>
chr13	111267397	111268714	19	4.70E-06	-0.04827911	-0.012207826	<i>NAXD</i>
chr10	42862876	42863594	8	4.72E-06	-0.085822439	-0.074968077	<i>LOC441666</i>
chr11	65313608	65315284	11	4.86E-06	-0.084298445	-0.034713301	<i>LTBP3</i>
chr1	167090618	167091161	7	4.91E-06	-0.055826538	-0.020475337	<i>STYXL2</i>
chr6	32976131	32977412	12	5.06E-06	-0.059793051	-0.010832415	<i>HLA-DOA</i>
chr5	76010472	76011428	8	5.65E-06	-0.038035938	-0.007838482	<i>F2R</i>
chr4	184908254	184909509	12	5.74E-06	-0.055417802	-0.025960326	<i>STOX2</i>
chr20	3073301	3074231	4	5.81E-06	0.052221009	0.026487131	NA
chr11	76749893	76751369	7	5.93E-06	-0.076634895	-0.026654733	<i>B3GNT6</i>
chr6	31583231	31584941	8	6.25E-06	0.067538738	0.032452513	<i>AIF1;PRRC2A</i>

chr5	176151771	176153865	9	6.75E-06	-0.053137077	-0.018473544	NA
chr4	154178264	154179401	4	6.94E-06	-0.058934143	-0.039394613	TRIM2
chr16	877559	878753	6	6.94E-06	-0.040776112	-0.011231069	NA
chr16	12183789	12185012	10	6.99E-06	-0.050259685	-0.018176721	SNX29
chr16	6105700	6106292	3	6.99E-06	-0.060137698	0.001190084	RBFOX1
chr5	150004235	150004918	6	1.03E-05	-0.039031406	-0.016991107	SYNPO
chr1	110081045	110082294	6	1.07E-05	-0.031892266	-0.005970586	GPR61
chr16	90143751	90144788	6	1.11E-05	-0.069894321	-0.050060912	PRDM7
chr17	38464730	38465510	10	1.31E-05	0.023706778	0.01345011	RARA
chr10	101280750	101283090	15	1.52E-05	-0.097771333	-0.012942116	NA
chr11	14993818	14995167	27	1.65E-05	0.044231492	0.008426364	CALCA
chr12	14926317	14927542	14	1.70E-05	-0.068710764	-0.022709198	H2AJ;H4-16
chr15	44092166	44093429	16	1.70E-05	0.021488169	0.002283906	ELL3;HYPK;SERF2-C15ORF63;SERINC4
chr12	131400857	131402040	10	1.76E-05	0.10481621	0.01864437	NA
chr5	135415693	135416613	14	1.76E-05	-0.119506699	-0.069593095	VTRNA2-1
chr2	21266500	21268152	15	1.83E-05	-0.087105736	-0.034723271	APOB
chr4	11369007	11370015	4	1.83E-05	-0.061433354	-0.028134622	MIR572
chr2	32491644	32491994	4	1.83E-05	0.03269225	0.011633954	NLRC4
chr11	65153757	65154388	11	1.94E-05	-0.01092507	0.000918099	FRMD8;SLC25A45
chr2	201828496	201829669	10	2.32E-05	-0.045341695	-0.010204489	ORC2
chr17	16472123	16473468	12	2.33E-05	-0.03815289	-0.003654633	ZNF287
chr5	176011567	176011783	3	2.34E-05	0.02802341	0.002421465	CDHR2
chr21	40823279	40824019	7	2.37E-05	-0.039286756	-0.021056335	SH3BGR
chr4	185018391	185019116	4	2.49E-05	-0.098239599	-0.058499666	ENPP6
chr21	27106248	27107101	9	2.59E-05	-0.047541296	-0.007298684	ATP5PF;GABPA
chr18	74799250	74800080	7	2.63E-05	0.101677456	0.052222941	MBP
chr11	32458656	32459428	8	2.65E-05	0.023184776	0.002402127	WT1;WT1-AS
chr1	24644925	24646205	17	2.75E-05	0.019744332	0.009527373	GRHL3
chr19	41255304	41256395	7	2.76E-05	-0.025011045	-0.013571488	C19orf54;SNRPA
chr19	19772686	19773068	3	2.85E-05	-0.02118906	-0.009393532	ATP13A1
chr6	27521330	27521477	3	2.93E-05	0.045496843	0.0389347	NA
chr8	62199810	62200689	8	2.97E-05	0.09220422	0.024464328	CLVS1
chr13	96296708	96297326	11	3.16E-05	0.064597374	0.014049346	DZIFI
chr3	126911277	126912011	11	3.24E-05	-0.048020133	-0.02330443	NA
chr12	125019756	125020479	8	3.30E-05	-0.026228668	-0.002092329	NCOR2
chr10	2978126	2978687	5	3.40E-05	-0.049514601	-0.037195269	NA
chr14	102963178	102964872	10	3.70E-05	-0.030427566	-0.009334554	TECPR2
chr2	220282281	220283442	9	3.84E-05	-0.050850949	-0.019541439	DES
chr2	190743462	190744385	6	3.86E-05	-0.079702648	-0.02314512	NA
chr6	32144667	32146071	27	4.32E-05	-0.020854478	0.002313041	AGPAT1;RNF5
chr16	80966033	80966860	9	4.34E-05	-0.084897175	-0.023599603	NA
chr14	105619511	105620358	4	4.41E-05	-0.049594125	-0.035505112	JAG2
chr14	101495758	101496410	9	4.65E-05	0.035728481	0.001794361	MIR1193;MIR494;MIR495;MIR543
chr12	71113067	71113529	4	5.09E-05	-0.06529439	-0.044576144	PTPRR
chr19	14229237	14229581	4	5.54E-05	0.019542954	0.00928279	PRKACA
chr1	162335982	162337375	9	5.54E-05	0.046462439	0.020464423	NOSIAP
chr16	87780848	87782144	6	5.54E-05	0.070114488	0.028467647	KLHDC4
chr17	59533081	59534102	4	5.62E-05	0.049398674	0.012467179	TBX4
chr1	4714974	4715615	8	5.65E-05	-0.0160571	0.000834912	AJAP1

chr8	27467783	27469338	10	6.52E-05	0.028415475	0.013984612	<i>CLU</i>
chr7	2018435	2018520	4	6.73E-05	-0.025541481	-0.013596861	<i>MAD1L1</i>
chr7	157853843	157854772	7	6.92E-05	-0.036783762	0.005659179	<i>PTPRN2</i>
chr11	123985614	123986166	10	7.53E-05	0.019300968	0.002903184	<i>VWA5A</i>
chr12	99139301	99139867	5	7.56E-05	-0.024925148	-0.010535133	<i>ANKS1B</i>
chr2	239047774	239048579	4	7.87E-05	-0.054954241	-0.034166874	<i>KLHL30</i>
chr17	79668348	79669841	6	7.95E-05	-0.037486354	-0.011569457	<i>HGS;MRPL12;SLC25A10</i>
chr19	613111	613818	3	8.31E-05	-0.117824751	-0.110563755	<i>HCN2</i>
chr1	152506173	152506922	3	8.36E-05	-0.059220539	-0.021772006	<i>NA</i>
chr15	101389272	101390350	13	8.41E-05	-0.064277235	-0.027205728	<i>NA</i>
chr19	49339789	49340765	6	8.74E-05	-0.061270659	-0.037598869	<i>HSD17B14;PLEKHA4</i>
chr9	139980676	139982149	8	8.82E-05	0.007760766	0.000496341	<i>MAN1B1;MAN1B1-DT</i>
chr1	235805286	235806070	6	8.85E-05	-0.063209969	-0.035602373	<i>GNM4</i>
chr1	201687738	201688419	3	9.67E-05	-0.098055875	-0.031050433	<i>MIR5191;NAV1</i>
chr4	1686288	1686736	3	0.000109114	0.078850969	0.027990228	<i>FAM53A</i>
chr19	51524249	51524763	5	0.000113324	-0.052155534	-0.02605052	<i>KLK10</i>
chr3	194867861	194868843	8	0.000116986	0.041390664	0.016211163	<i>XXYLT1;XXYLT1-AS2</i>
chr6	87965764	87966747	3	0.000121626	-0.070043264	-0.021641325	<i>ZNF292</i>
chr11	65429275	65429987	3	0.00012895	0.057746409	0.024403152	<i>RELA</i>
chr19	12443716	12445173	11	0.00013561	0.02044112	0.006528592	<i>ZNF563</i>
chr12	118574730	118575033	3	0.0001419	-0.030581455	-0.012939604	<i>PEBP1</i>
chr1	37325001	37325677	3	0.000151008	-0.054163673	-0.023332257	<i>GRIK3</i>
chr16	88767068	88768194	4	0.000151448	0.035315621	0.021158699	<i>CTU2;RNF166</i>
chr2	55746015	55746328	5	0.000154185	-0.059294106	-0.020845493	<i>CFAP36</i>
chr16	19896317	19897093	9	0.000154565	0.047895694	0.014202769	<i>GPRC5B</i>
chr12	54451877	54452069	3	0.000157087	-0.069587506	-0.047086226	<i>FLJ12825</i>
chr8	143324660	143324994	4	0.000185197	-0.08543437	-0.027050448	<i>TSNARE1</i>
chr1	178455607	178456270	5	0.000185306	-0.060714974	-0.041268205	<i>NA</i>
chr4	183721183	183721778	5	0.000212981	-0.099206235	-0.044084404	<i>TENM3</i>
chr9	136149908	136150361	4	0.000215694	-0.088490704	-0.062976756	<i>ABO</i>
chr11	1650595	1650863	3	0.000215694	0.07156859	0.046430557	<i>KRTAP5-5;MOB2</i>
chr2	2295451	2295969	7	0.000218057	-0.06029634	-0.03176046	<i>MYT1L</i>
chr8	96085249	96085994	6	0.000226731	-0.072668009	-0.032969847	<i>MIR3150B;NDUFAF6</i>
chr15	67144403	67145855	4	0.000227895	-0.026941768	-0.011439697	<i>NA</i>
chr6	36355127	36356244	13	0.000234997	-0.043584108	-0.015032645	<i>ETV7</i>
chr3	44802754	44804219	15	0.000239702	0.013689228	0.00316573	<i>KIAA1143;KIF15</i>
chr14	100402775	100403675	4	0.000242932	0.034259728	0.004812265	<i>EMLI</i>
chr4	6107021	6107791	8	0.000243536	0.077530622	0.028797539	<i>JAKMIP1</i>
chr11	267613	268116	3	0.000244002	0.021378695	0.016958221	<i>NA</i>
chr11	14280333	14281157	6	0.000245283	-0.071920879	-0.043680974	<i>SPON1</i>
chr22	22901145	22902237	15	0.000249875	-0.029990762	-0.015169137	<i>LL22NC03-63E9.3;PRAME</i>
chr6	31803718	31804883	7	0.000250313	-0.037493735	-0.018120953	<i>SNHG32;SNORD52</i>
chr2	27371537	27372132	8	0.000250313	-0.023184524	-0.008384218	<i>TCF23</i>
chr16	1728898	1729252	3	0.000252132	-0.023091901	-0.003488497	<i>CRAMP1;JPT2</i>
chr13	110438256	110439234	10	0.000253501	0.025203726	0.012706608	<i>IRS2</i>
chr19	611107	611506	4	0.000276301	-0.05956778	-0.048901087	<i>HCN2</i>
chr2	3605983	3606561	11	0.000276361	0.012484432	0.001832791	<i>RNASEH1;RNASEH1-AS1</i>
chr10	6190408	6191207	4	0.0002801	0.02219635	0.009277035	<i>MIR3155A;PFKFB3</i>
chr3	38060265	38060691	4	0.000280572	0.0278808	0.009611868	<i>PLCD1</i>

chr17	46755422	46756094	6	0.000284657	-0.04527134	-0.012735655	NA
chr17	6678929	6679564	11	0.000293813	0.046886522	0.016261681	<i>FBXO39;XAF1</i>
chr13	27998168	27999546	13	0.000302893	0.064505125	0.019590198	<i>GTF3A</i>
chr1	231376203	231377187	16	0.000303656	-0.014523175	-0.000406571	<i>C1orf131;GNPAT</i>
chr12	121533475	121533833	4	0.000309113	-0.066654002	-0.013758723	NA
chr5	1875548	1876719	9	0.000317707	0.029855246	0.013000563	NA
chr4	155702069	155703987	18	0.000320328	0.070442779	0.017414598	<i>RBM46</i>
chr7	29844982	29846259	8	0.000327961	-0.038658066	-0.013032312	<i>WIPF3</i>
chr16	58533743	58534708	9	0.000337226	-0.079139721	-0.055643319	<i>NDRG4</i>
chr15	93580022	93580846	7	0.000340737	0.065520393	0.028778062	NA
chr6	33375357	33375711	4	0.000375101	0.031475943	0.014437144	<i>KIFC1;PHF1</i>
chr10	106099036	106100036	4	0.000386808	-0.053136143	-0.028266884	<i>ITPRIP</i>
chr8	145652729	145654565	12	0.000402757	0.022062732	0.000702762	<i>TONSL;VPS28</i>
chr7	44365023	44366202	13	0.000402757	0.020756784	0.005552571	<i>CAMK2B</i>
chr4	47032325	47033423	11	0.00040927	-0.048484976	-0.016570199	<i>GABRB1</i>
chr8	95961754	95962463	12	0.000419249	-0.055540436	-0.023548512	<i>TP53INP1</i>
chr5	141094626	141095628	4	0.000419249	0.044317635	0.000975492	NA
chr6	40400230	40400462	3	0.000419324	-0.034720848	-0.015080491	<i>LRFN2</i>
chr1	110949563	110950345	8	0.000459147	-0.036914556	-0.007382054	<i>LAMTOR5;LAMTOR5-AS1</i>
chr16	71927972	71928946	13	0.000470799	-0.037779679	-0.00284114	<i>IST1</i>
chr19	35530755	35532097	13	0.000470799	0.025941821	0.009712071	<i>HPN;SCN1B</i>
chr18	111676	112528	4	0.000470799	0.044406623	0.028283228	<i>ROCK1P1</i>
chr5	115697214	115697696	4	0.000470799	0.046194623	0.03585366	NA
chr19	42070397	42071240	10	0.000488507	0.027666806	0.013014159	<i>CEACAM21</i>
chr17	40550057	40550525	3	0.000488946	-0.031414926	-0.009103201	NA
chr19	36119199	36119666	4	0.000488946	0.043028319	0.02078672	<i>RBM42</i>
chr15	74423308	74424054	6	0.000506587	0.018975057	0.011072455	<i>ISLR2;LOC283731</i>
chr2	109402797	109403565	14	0.000514502	-0.014195331	-0.001670947	<i>CCDC138</i>
chr1	26503623	26504548	8	0.000522616	-0.055777289	-0.028496787	<i>CNKSR1</i>
chr15	99789622	99791525	16	0.000527156	-0.063848252	-0.026696002	<i>LRRC28;TTC23</i>
chr7	36067955	36068970	3	0.000538979	-0.053188734	-0.027366632	NA
chr1	845311	846742	6	0.000538979	-0.054745691	-0.026593173	NA
chr20	821388	822499	8	0.000538979	0.029891449	0.01229957	<i>FAM110A</i>
chr11	133788233	133789946	5	0.00056698	-0.093222033	-0.047853821	<i>IGSF9B</i>
chr7	29184994	29187019	18	0.00056698	0.041961147	0.010071981	<i>CHN2;CPVL</i>
chr1	11714784	11715247	5	0.000569658	-0.010833709	-0.000817975	<i>FBXO2;FBXO44</i>
chr5	172710360	172711094	6	0.00057149	0.036427697	0.01242455	NA
chr10	50649723	50650248	4	0.000577186	-0.059770382	-0.049454152	NA
chr1	3563415	3564676	6	0.000585679	0.040254553	0.017681217	<i>TP73;WRAP73</i>
chr7	751009	751833	5	0.000596812	0.061452832	0.027141645	<i>PRKAR1B</i>
chr3	192958565	192959762	9	0.000598181	0.03108194	0.012157954	<i>MGC2889;PLAAT1</i>
chr1	2106222	2106732	5	0.000606967	-0.048739489	-0.035280774	<i>PRKCZ</i>
chr16	62070219	62071419	13	0.000606967	0.033163893	0.00220867	<i>CDH8</i>
chr5	172385451	172387101	22	0.000617248	-0.048406446	-0.005730407	<i>LOC100268168;RPL26L1</i>
chr1	15130959	15131772	3	0.000617248	0.033298351	-0.005123772	<i>KAZN</i>
chr9	132020061	132021167	7	0.000621328	0.046437461	0.009048076	NA
chr10	89263578	89264513	10	0.000629394	0.062264041	0.018288872	<i>MINPP1;MIR4678</i>
chr22	39709853	39710068	5	0.000635108	-0.035761966	-0.010737155	<i>RPL3</i>
chr17	79465866	79466438	4	0.000674098	-0.075172806	-0.045716682	NA

chr8	1764878	1766281	15	0.000680348	0.029395981	0.014041858	MIR596
chr15	79851166	79852078	3	0.000680348	0.032538995	0.020326536	NA
chr2	240301504	240302888	7	0.000682487	0.04343189	0.011285594	HDAC4
chr5	140561239	140563400	15	0.000696283	0.085143436	0.025479001	PCDHB16
chr3	195578011	195578280	5	0.000697885	0.054451472	0.020429483	NA
chr1	16011710	16012588	3	0.000702141	0.035187896	0.010639714	PLEKHM2
chr1	220863127	220864321	16	0.000705297	0.031888864	0.008498706	C1orf115
chr4	81117853	81119473	13	0.000714125	0.054309156	0.028698208	PRDM8
chr15	29562049	29562542	8	0.000719969	0.015944747	0.003648847	FAM189A1;NSMCE3
chr7	35735019	35735464	4	0.000720625	-0.099111387	-0.025905038	HERPUD2
chr8	145925258	145926766	11	0.000738013	0.044993871	0.015247443	NA
chr1	161368787	161369277	5	0.000742747	-0.088613928	-0.041433866	NA
chr5	175995592	175995896	3	0.000742747	-0.042743653	-0.018869938	CDHR2
chr6	32380937	32381888	7	0.000742747	0.023006705	0.004941644	NA
chr12	124985272	124986124	4	0.000742747	0.044999791	0.018468598	NCOR2
chr19	4607057	4607540	7	0.000762382	-0.029367236	-0.009917319	NA
chr5	180631001	180631909	4	0.00077512	-0.019529501	-0.004360844	TRIM7
chr5	138210550	138211909	15	0.000791555	0.031751142	0.017297474	CTNNA1;LRRTM2
chr11	45671015	45671369	4	0.000793662	-0.079946665	-0.05179087	CHST1
chr16	66953825	66954273	4	0.000797506	-0.034996529	-0.032578881	CDH16
chr7	32338542	32339497	12	0.000801148	-0.043487316	-0.021383745	PDE1C
chr22	32058214	32058810	9	0.000827073	-0.053496038	-0.015903577	PISD
chr11	120254723	120255253	3	0.000831392	0.036562367	0.000585692	ARHGEF12
chr1	204226218	204226671	3	0.000839828	-0.02793239	-0.020560395	PLEKHA6
chr1	22137435	22138381	4	0.000850195	0.042839695	-0.004014872	LDLRAD2
chr11	43902062	43902786	8	0.000857998	0.034548965	0.015830268	ALKBH3
chr15	42565651	42566390	18	0.000863212	0.019187913	0.003874243	GANC;TMEM87A
chr7	6615984	6616677	5	0.000865786	-0.11456779	-0.036469312	ZDHH4
chr16	1094653	1096754	8	0.000867732	0.06370825	0.012991511	NA
chr21	16435593	16436713	6	0.000879131	0.020628745	0.007941477	NRIP1
chr5	161494015	161494810	12	0.000884394	0.064291335	0.013699324	GABRG2
chr8	49493865	49494724	3	0.00090067	-0.067589524	-0.030812037	NA
chr5	64064244	64065454	13	0.00090623	0.019690402	0.004292871	CWC27;SREKIIP1
chr13	111521981	111522932	7	0.00090623	0.048131832	0.010888404	PRECSIT
chr4	2277157	2278261	7	0.000917011	0.030040715	0.003957573	ZFYVE28
chr18	21718735	21719568	17	0.000927844	-0.048429847	-0.013251299	CABYR
chr7	27203430	27204663	8	0.000928485	0.021092874	0.009885148	HOXA10-AS;HOXA10-HOXA9;HOXA9
chr1	29101609	29102153	5	0.000950003	0.068609948	0.026202974	NA
chr11	126172682	126174329	19	0.000954592	-0.04986137	-0.011945608	DCPS
chr12	10182372	10183850	9	0.000985456	0.051227582	0.026084571	CLEC9A
chr5	173068163	173068482	3	0.000999032	-0.025336206	-0.013134467	NA
chr3	10370264	10370704	3	0.001002893	-0.045738927	-0.040445047	ATP2B2
chr18	7566258	7566781	5	0.001009216	-0.017245905	-0.000832405	PTPRM
chr17	3819880	3820910	7	0.001037481	0.023230213	0.009328253	P2RX1
chr9	96337635	96338308	4	0.00104871	0.048198183	0.01887848	PHF2
chr22	20130190	20130698	3	0.001053287	-0.036993476	-0.011985885	ZDHH8
chr3	149094653	149095283	5	0.001058728	-0.098890248	-0.070030312	TM4SF1
chr19	52956310	52957180	11	0.001060825	0.049908019	0.011289647	ZNF578
chr9	139590572	139591234	3	0.001066035	0.045913517	-0.001331713	NA

chr6	117923272	117924280	13	0.00107335	0.035363114	0.009387588	<i>GOPC</i>
chr11	5617367	5618408	8	0.001088852	0.081689817	0.059771534	<i>HBG2;TRIM6;TRIM6-TRIM34</i>
chr1	177139933	177140609	12	0.001102312	0.020923518	0.006064163	<i>BRINP2</i>
chr11	70961596	70962357	6	0.001111247	-0.033682388	-0.009204182	<i>NA</i>
chr1	60391699	60392933	14	0.00111231	-0.037363813	-0.016157505	<i>CYP2J2</i>
chr17	47840643	47841033	5	0.001129537	-0.008584237	-0.000938637	<i>FAM117A</i>
chr19	40732113	40732902	12	0.001129537	0.028131602	0.009266668	<i>CCNP</i>
chr15	27127627	27129196	7	0.001130454	-0.026229881	-0.015874937	<i>GABRA5;GABRB3</i>
chr12	117317770	117318832	6	0.001130454	0.018569523	0.011933802	<i>HRK</i>
chr14	93214468	93215468	12	0.001133307	0.028022854	0.007564009	<i>LGMIN</i>
chr4	111532679	111533951	10	0.001137943	0.031099841	0.008635239	<i>NA</i>
chr17	7283578	7284662	13	0.001153081	-0.061975512	-0.012010693	<i>TNK1</i>
chr15	41060822	41062224	11	0.001153081	0.024745236	0.01219701	<i>C15orf62;DNAJC17</i>
chr2	242648422	242648761	6	0.001186978	0.039093245	0.003679026	<i>ING5</i>
chr1	111742914	111743537	9	0.00119088	0.028731691	0.015504187	<i>DENND2D</i>
chr10	129705415	129706313	4	0.001194062	-0.018508233	-0.006230621	<i>PTPRE</i>
chr6	33084479	33085063	14	0.001194062	0.070689818	0.030941262	<i>HLA-DPB2</i>
chr7	98579466	98579722	4	0.001200851	-0.022814584	-0.007066747	<i>TRRAP</i>
chr21	44593642	44593766	3	0.001209692	-0.046808937	-0.027449082	<i>NA</i>
chr16	12188962	12189875	5	0.0012164	0.019239541	0.012300341	<i>SNX29</i>
chr14	35838051	35838977	5	0.001243266	-0.063159116	-0.031024559	<i>NA</i>
chr16	17405193	17406298	3	0.001243266	-0.030466548	-0.021723083	<i>XYLT1</i>
chr16	68770944	68772469	15	0.001243266	0.045170495	0.010984283	<i>CDH1</i>
chr15	82339920	82340505	5	0.001245845	0.014145559	0.007333251	<i>MEX3B</i>
chr11	20625992	20627597	7	0.001248911	0.036748008	0.023880226	<i>SLC6A5</i>
chr11	250601	251223	7	0.001249397	0.03175696	0.017833049	<i>PSMD13</i>
chr3	71179796	71180415	9	0.001253813	0.021535466	0.011758525	<i>FOXP1</i>
chr19	49249932	49250688	9	0.001257384	0.017012078	0.007962556	<i>IZUMO1</i>
chr19	55586493	55587193	8	0.001276713	-0.130557883	0.003613019	<i>EPS8L1</i>
chr9	4489544	4490325	9	0.001318726	0.074295698	0.01007862	<i>SLC1A1</i>
chr6	151646300	151647133	11	0.001318726	0.059713318	0.026168837	<i>AKAP12</i>
chr14	105104536	105105634	6	0.001323095	-0.035331525	-0.020090974	<i>NA</i>
chr12	110764188	110764634	3	0.001328607	-0.037320923	-0.011115936	<i>ATP2A2</i>
chr10	661009	661730	6	0.001343277	0.035682931	-0.000901839	<i>DIP2C</i>
chr1	9969424	9970993	17	0.001363066	0.021780164	0.001910691	<i>CTNNBIP1</i>
chr5	80594700	80595354	3	0.001364962	-0.033660471	-0.013679408	<i>CKMT2-AS1;RNU5E-1;ZCCHC9</i>
chr5	118691007	118692011	13	0.001372127	-0.030669991	-0.010884137	<i>TNFAIP8</i>
chr19	17439877	17440072	3	0.001395867	-0.021347187	-0.016886374	<i>ANO8</i>
chr4	7638050	7638280	3	0.001402182	-0.025603948	-0.005161488	<i>SORCS2</i>
chr11	7041080	7042754	21	0.001417994	0.031085386	0.008154249	<i>NLRP14;ZNF214</i>
chr11	32452038	32452839	10	0.001437694	0.034065762	0.015738453	<i>WT1;WT1-AS</i>
chr11	17794478	17795033	3	0.001455079	-0.031037868	-0.019858425	<i>KCNC1</i>
chr5	140501277	140501812	10	0.00145596	0.044914491	0.022367149	<i>PCDHB4</i>
chr8	1320786	1321883	6	0.001471933	-0.095063642	-0.059084693	<i>NA</i>
chr1	152485511	152485838	3	0.001479477	-0.025101508	0.001399371	<i>CRCT1</i>
chr19	8428144	8429166	12	0.001507038	0.044517797	0.006899286	<i>ANGPTL4</i>
chr5	78365647	78366302	8	0.001516028	0.046171115	0.033246165	<i>BHMT2;DMGDH</i>
chr1	159915569	159916472	6	0.001541847	-0.035156309	-0.01127555	<i>IGSF9</i>
chr19	51917852	51918667	3	0.001549108	-0.029636881	-0.0205819	<i>SIGLEC10;SIGLEC10-AS1</i>

chr1	228402036	228402696	3	0.001554646	0.085664851	0.018426752	<i>OBSCN;OBSCN-AS1</i>
chr1	20569408	20569715	4	0.001563115	-0.080549439	-0.058098005	NA
chr7	149128631	149129312	3	0.001580447	-0.021475404	-0.008590441	<i>ZNF777</i>
chr11	45743599	45743936	7	0.001589389	-0.044915667	-0.02143135	<i>LOC100507384</i>
chr6	30104295	30104916	8	0.001596261	-0.055779428	-0.020352771	<i>TRIM40</i>
chr5	140624586	140625389	12	0.001601501	0.038820961	0.014835788	<i>PCDHB15</i>
chr9	134881994	134882463	3	0.001604418	0.065020492	0.030764996	<i>MED27</i>
chr16	84327245	84328719	13	0.00162585	-0.022362967	0.000349595	<i>WFDC1</i>
chr8	11141355	11141680	4	0.001632438	-0.062878349	-0.042228296	<i>MTMR9</i>
chr1	3163341	3164431	7	0.001639848	-0.039660593	-0.02327215	<i>PRDM16</i>
chr5	126408756	126409553	13	0.001646382	-0.093147382	-0.040405777	<i>C5orf63</i>
chr3	194756646	194757099	4	0.001660021	-0.027794106	-0.025593652	NA
chr1	91182215	91182989	9	0.001667798	0.028653038	0.007748176	<i>BARHL2</i>
chr20	61001775	61004551	14	0.001677344	-0.048286256	-0.020421233	<i>RBBP8NL</i>
chr11	14665739	14666839	7	0.001701595	0.008157008	0.001371377	<i>PDE3B;PSMA1</i>
chr8	1496052	1497307	8	0.001716825	-0.055428041	-0.019408406	<i>DLGAP2</i>
chr7	101006963	101007603	3	0.001716825	0.042942368	0.01822064	<i>COL26A1</i>
chr4	39183160	39183765	4	0.001718108	-0.046261747	-0.018767559	<i>WDR19</i>
chr1	19669159	19669527	3	0.001720816	-0.013306625	-0.000705805	<i>CAPZB</i>
chr19	58868256	58869424	8	0.001737199	0.043109995	0.021076581	<i>A1BG;ZNF497</i>
chr10	84573500	84574204	3	0.001739866	-0.044464398	-0.022427103	<i>NRG3</i>
chr10	88294689	88296809	11	0.001750842	-0.021983898	-0.00775802	NA
chr17	4486580	4487606	8	0.001754684	-0.090840695	-0.025276342	<i>SMTNL2</i>
chr12	6604039	6605071	3	0.001770552	0.048789781	0.038379008	<i>MRPL51;NCAPD2</i>
chr4	493489	493833	4	0.001778136	0.062546546	0.025316641	<i>PIGG;ZNF721</i>
chr3	122296027	122296613	8	0.001816	-0.02467532	-0.010322068	<i>PARP15</i>
chr7	5518392	5519576	5	0.00182064	0.029716171	0.012244613	<i>FBXL18</i>
chr16	75241914	75242114	3	0.001824262	-0.049510946	-0.033102665	<i>CTRB2</i>
chr15	85177401	85177792	5	0.001878072	0.108014004	0.042748182	<i>SCAND2P</i>
chr10	99337734	99338240	6	0.001878334	-0.085936804	-0.045350381	<i>ANKRD2</i>
chr6	32972492	32973306	3	0.001884134	-0.026934063	-0.013105409	<i>HLA-DOA</i>
chr11	121526264	121526840	5	0.001884134	0.013144484	0.00356213	NA
chr18	77838622	77839582	3	0.001897468	0.040688745	0.019948627	<i>RBFA;RBFADN</i>
chr16	69353295	69354291	4	0.001900217	-0.029110787	-0.005303071	<i>VPS4A</i>
chr17	79950061	79950366	3	0.001907436	-0.030988059	-0.014156942	<i>ASPSCR1</i>
chr12	119346746	119347628	6	0.001942179	-0.046723065	-0.009935769	NA
chr17	4389722	4389857	5	0.001953314	0.026111188	0.015535389	<i>SPNS3</i>
chr6	41715166	41715593	5	0.001966307	-0.024872923	-0.011769477	<i>PGC</i>
chr16	70780647	70780947	4	0.001988531	-0.027372925	0.004313405	<i>VAC14</i>
chr4	57332196	57333859	14	0.00199873	0.034431596	0.00897944	<i>SRP72</i>
chr12	115111557	115112225	3	0.002012181	-0.052455353	-0.039896017	<i>TBX3</i>
chr7	45431741	45431891	3	0.002018239	-0.074423894	-0.059182159	NA
chr17	19883326	19883716	4	0.00203766	-0.076741563	-0.047474884	<i>AKAP10</i>
chr6	31648146	31649638	33	0.002040718	-0.050842321	0.002515958	<i>LY6G5C</i>
chr11	4928572	4928760	3	0.002045707	-0.031998507	-0.01593919	<i>OR51A7</i>
chr14	77492788	77494451	7	0.002049864	0.023314934	0.008091811	<i>IRF2BPL</i>
chr11	117071224	117072280	3	0.002050233	0.064936569	0.028484211	<i>LOC100652768;TAGLN</i>
chr3	18391029	18391232	3	0.002050468	0.052997647	0.004060534	<i>SATB1</i>
chr6	36953694	36954415	15	0.002065572	-0.007888502	-0.001338873	<i>MTCH1</i>

chr6	170589530	170590694	6	0.002087911	-0.087571833	-0.050086546	NA
chr7	1362568	1363124	4	0.002089617	-0.043060833	-0.030525251	NA
chr2	54949722	54951670	10	0.002117578	0.013102823	0.00248224	EML6
chr2	142888868	142889683	9	0.002123649	-0.046981885	-0.017809343	LRP1B
chr5	179220545	179221090	6	0.002133156	0.026435678	0.00969012	LTC4S;MAML1
chr2	102866879	102867826	5	0.002155469	-0.054397542	-0.024465791	NA
chr7	1781918	1782572	6	0.002163865	-0.036220915	-0.022520865	ELFN1
chr1	99728691	99730224	13	0.002186804	-0.030506588	-0.006169618	PLPPR4
chr3	37494602	37495806	4	0.002190568	0.064009497	0.028554409	ITGA9
chr5	1503259	1503979	5	0.002200468	0.023196528	0.013211333	LPCAT1
chr17	46799845	46801314	17	0.002250791	-0.026805771	0.001097912	PRAC1;PRAC2
chr3	138665654	138666885	16	0.002311434	0.029944443	0.005260513	FOXL2;FOXL2NB
chr12	1906835	1906917	3	0.002318874	0.050506493	0.03084608	CACNA2D4
chr16	87866696	87866833	3	0.002354426	0.028280383	0.025247623	SLC7A5
chr7	42005232	42006120	5	0.002368106	0.041430608	-0.001240974	GLI3
chr4	89641534	89642483	3	0.00237717	-0.024620618	-0.01476934	FAM13A-AS1
chr18	30352297	30353289	11	0.002389582	0.037248837	0.009405153	KLHL14
chr7	7142996	7143299	3	0.002394875	-0.041653245	-0.023100124	NA
chr4	1957019	1957864	8	0.002408165	-0.027733054	-0.005596601	NSD2
chr4	108745279	108746407	14	0.002431079	-0.019682963	-0.000650699	SGMS2
chr16	71264282	71265020	10	0.00246605	0.043570391	-0.001114092	HYDIN
chr9	34662773	34663048	4	0.002495743	-0.030415227	-0.012161588	CCL27
chr1	184020263	184021360	13	0.002506107	0.017304859	-0.001154007	TSEN15
chr12	107381075	107381862	6	0.002523663	-0.042674641	-0.01377838	MTERF2
chr7	28530206	28530724	5	0.002523663	-0.024851504	-0.007643879	CREB5
chr19	58125386	58126053	15	0.002523663	-0.021767054	-0.00045875	ZNF134
chr17	33759512	33760819	14	0.00253227	-0.061075502	-0.033207477	SLFN12
chr15	33487289	33487681	4	0.002536214	-0.081399452	-0.052479103	FMN1
chr6	74103959	74105065	13	0.002553005	-0.062963695	-0.019460486	DDX43;OEEP
chr6	106035279	10603528	4	0.002568784	-0.039063244	-0.019882899	NA
chr9	14346276	14346834	3	0.002568784	-0.037172128	-0.011359188	NFIB
chr2	70322323	70322659	4	0.002568784	0.020058998	0.009792506	NA
chr10	35102505	35103615	4	0.002577536	0.018435627	0.001148596	PARD3
chr3	184971652	184972683	10	0.002579487	0.039299528	0.016326984	EHHADH
chr15	27113322	27113913	4	0.002579487	0.063871275	0.023539822	GABRA5;GABRB3
chr3	185911208	185911885	6	0.002613129	0.060760176	0.022498292	DGKG
chr1	234040765	234041845	6	0.002616569	-0.050642386	-0.00847548	SLC35F3
chr12	49391363	49392438	6	0.002623057	0.010821612	-0.00065394	DDN
chr16	4103161	4103533	5	0.002624403	0.037020938	0.007489774	ADCY9
chr8	144098507	144099299	5	0.002635355	-0.074100443	-0.020161407	LY6E;LY6E-DT
chr11	17740977	17741925	7	0.00264705	0.021855978	0.015045084	MYOD1
chr1	180202256	180202784	3	0.002652502	0.035000405	-0.000671264	LHX4
chr1	179544476	179545091	5	0.002676805	-0.051758503	-0.016883734	NPHS2
chr16	31499479	31500246	5	0.002703545	0.037171419	0.021594685	SLC5A2
chr4	6152248	6152765	6	0.002750165	0.027528217	0.00142923	JAKMIP1
chr2	242051650	242052583	8	0.00275143	-0.029936475	-0.015155449	PASK
chr14	102705529	102705945	3	0.002770743	0.059298628	0.053823493	MOK
chr6	149806273	149806659	7	0.002787686	-0.051098521	-0.03077694	ZC3H12D
chr3	42121652	42121982	3	0.002788661	-0.062039564	-0.043794602	NA

chr12	133344446	133345322	5	0.002813161	0.017463009	0.013880908	NA
chr1	175161785	175162553	15	0.002854544	-0.03157119	-0.009448434	KIAA0040
chr19	39997622	39998290	5	0.002866178	-0.072860783	-0.050773067	DLL3
chr9	37651177	37651660	3	0.00286852	-0.039109787	-0.015340723	FRMPD1
chr13	65532581	65533139	5	0.002875524	-0.024941991	-0.016220884	NA
chr19	50372937	50373420	4	0.002875524	0.008289635	-0.000198575	AKT1S1;PNKP
chr3	170137240	170138205	6	0.002897129	-0.035207675	-0.010550451	CLDN11
chr2	3646077	3646196	3	0.002898292	0.045316141	0.038271285	COLEC11
chr8	65290848	65292217	12	0.002898443	0.029720691	0.000398324	MIR124-2;MIR124-2HG
chr11	890192	890505	4	0.002976531	0.106259545	0.023511924	CHID1
chr8	65489554	65490343	10	0.003004525	0.013017972	0.004399113	BHLHE22;LOC401463
chr19	17411666	17412305	5	0.003006734	-0.025796937	-0.007928678	ABHD8;MRPL34
chr5	88178977	88179867	16	0.003018479	-0.020952961	0.003801565	MEF2C
chr5	95066236	95066845	10	0.003043629	0.046874701	0.00626219	RHOBTB3
chr4	142053623	142054254	5	0.003053176	0.009581354	0.006798507	RNF150
chr6	28583655	28584464	14	0.00306135	-0.045641836	-0.02152185	NA
chr3	30936070	30936955	11	0.003066031	0.033844485	0.004999254	GADL1
chr16	10912331	10912718	5	0.003086984	-0.054164406	-0.025788253	TVP23A
chr19	51357343	51357857	4	0.003102889	-0.063073745	-0.013893822	KLK3
chr3	12597236	12598043	5	0.003123489	-0.051563	-0.019747092	MKRN2
chr10	121651945	121652836	11	0.003163557	0.025912423	0.001690502	SEC23IP
chr16	3136857	3137690	5	0.003184304	0.041154758	0.022083672	NA
chr6	116381904	116382179	5	0.003194724	-0.044808982	-0.035183201	FRK
chr6	13614902	13616043	12	0.003202223	0.018179154	-1.09E-05	NOL7;SIRT5
chr15	64680186	64680904	3	0.003226168	-0.01793594	-0.002972235	TRIP4
chr1	50573970	50574837	9	0.003237914	-0.03230689	-0.01796085	ELAVL4
chr19	2546598	2547067	4	0.003406341	0.055456339	0.032472557	GNG7
chr9	130860206	130860839	7	0.003443369	0.028573755	0.015608212	SLC25A25
chr9	27529519	27530279	4	0.00349332	0.027615796	0.007079247	MOB3B
chr17	38231199	38231228	3	0.003517339	-0.01760121	0.001649538	THRA
chr10	99330963	99331808	5	0.003583543	-0.018700832	-0.010774525	ANKRD2
chr3	26665477	26666855	7	0.003584525	-0.038348595	-0.008544736	LRRC3B
chr7	107770791	107771214	5	0.003594348	-0.029990151	0.004813952	LAMB4
chr19	15197635	15198451	4	0.003595514	-0.027706224	-0.007921118	OR111
chr11	43603572	43604219	4	0.003652476	0.036642728	0.01580651	NA
chr1	11561489	11562134	7	0.003652936	-0.061594065	-0.033587914	DISP3
chr2	95536859	95537475	7	0.0036952	-0.069979661	-0.035950232	LOC442028;TEKT4
chr2	85554513	85555559	10	0.003706117	-0.019746039	0.00187171	TGOLN2
chr11	64691547	64692208	13	0.003717165	0.020373975	0.002532005	PPP2R5B
chr10	124638756	124639782	15	0.003812861	0.0498565	0.016000113	C10orf88B;FAM24B;FAM24B-CUZD1
chr4	644572	644973	3	0.003812861	0.047764147	0.023940578	PDE6B
chr16	86958417	86959212	3	0.003865907	-0.01717986	0.000422619	NA
chr11	128554586	128555529	8	0.003869365	0.029598278	0.01950198	FLI1
chr17	72462417	72463080	9	0.003876678	0.033966784	0.019183738	CD300A
chr16	88769854	88770361	7	0.003907436	0.009222582	0.004587498	CTU2;RNF166
chr20	21377671	21378074	4	0.00394394	0.047083951	0.027139874	NKX2-4
chr19	49576955	49577303	5	0.003964147	-0.044339038	-0.026621625	KCNA7
chr7	1051703	1052392	3	0.003986234	-0.095240725	-0.064662071	C7orf50
chr18	31803067	31804000	11	0.004008932	0.024733603	0.010416823	NOLA

chr2	242710665	242711599	6	0.004008932	0.091587079	0.038733586	<i>GAL3ST2</i>
chr14	65005951	65006359	10	0.004009524	-0.043468002	-0.011212329	<i>HSPA2</i>
chr4	1041664	1042767	4	0.004030686	-0.042002251	-0.017103511	NA
chr19	54566838	54567279	6	0.004052166	0.058215176	0.033963481	<i>VSTM1</i>
chr8	6663401	6664281	6	0.004083566	-0.023555624	-0.006704318	NA
chr1	23695347	23696579	15	0.004097561	0.020788375	0.004374452	<i>ZNF436;ZNF436-AS1</i>
chr1	220445206	220446194	12	0.004114438	-0.026362913	-0.010749176	<i>AURKAP1;RAB3GAP2</i>
chr11	71951714	71952431	4	0.004117251	0.017336578	0.007040154	<i>PHOX2A</i>
chr17	1618295	1619022	4	0.004171027	-0.040526323	-0.008814815	<i>MIR22;MIR22HG;TLCD2;WDR81</i>
chr1	108743318	108743879	7	0.004177908	0.017091611	0.008251629	<i>SLC25A24</i>
chr12	91331583	91332479	6	0.004190962	-0.017986572	0.001778265	<i>LINC00615</i>
chr11	315751	316339	5	0.004215875	-0.043915868	-0.034649014	NA
chr1	1982434	1983033	4	0.004215875	-0.059490018	-0.033915493	<i>PRKCZ</i>
chr10	83636072	83636782	5	0.004254915	0.013803638	0.003229175	<i>NRG3</i>
chr14	64804611	64804911	3	0.004274143	0.022924336	0.010826088	<i>ESR2</i>
chr11	366307	366487	4	0.004309681	-0.042498177	-0.021908206	<i>B4GALNT4</i>
chr5	52775681	52776694	9	0.004309681	-0.024535669	-0.000858046	<i>FST</i>
chr14	23291485	23292648	11	0.004342542	0.054978476	0.005600843	<i>SLC7A7</i>
chr5	140762229	140762582	7	0.004361268	-0.042796212	-0.022490183	<i>DHGA4;PCDHGA5;PCDHGA6;PCDHGA7;PCDHGA8;PCDHGB1;PCDHGB2;PCDHGB3;PCDHGB4</i>
chr2	240698166	240698489	3	0.004376293	-0.024867589	-0.01182142	<i>LOC150935</i>
chr3	186284448	186285036	5	0.004376293	0.007976935	0.001550201	<i>DNAJB11;TBCCD1</i>
chr12	65562873	65563900	10	0.004376802	0.010332217	-3.92E-05	<i>LEMD3</i>
chr6	134373485	134373925	6	0.004383722	0.011210654	0.006041139	<i>SLC2A12</i>
chr9	139877234	139878174	6	0.004387693	-0.021283662	-0.011799128	<i>LCNLI</i>
chr4	103997887	103998717	11	0.004387693	-0.051891655	-0.009225944	<i>SLC9B2</i>
chr4	99064102	99064603	6	0.004395668	-0.081138918	-0.027481411	<i>STPG2</i>
chr17	50237205	50237844	15	0.00442872	0.044866384	0.016865056	<i>CA10</i>
chr20	44803246	44803633	3	0.004445931	-0.02702401	-0.008209174	<i>CDH22</i>
chr2	183731407	183732357	10	0.004453116	0.020805806	0.000707076	<i>FRZB</i>
chr20	2632942	2633873	12	0.004454235	-0.058745536	-0.003657654	<i>MIR1292;NOP56;SNORA51;SNORD110</i>
chr17	72731453	72731753	3	0.004456989	0.036880802	0.029296701	<i>RAB37</i>
chr1	233463492	233464510	7	0.004466128	0.009839634	0.003222927	<i>MAP3K21</i>
chr1	154842717	154843314	9	0.004471851	0.019142879	0.00574382	<i>KCNN3</i>
chr12	82153008	82153736	11	0.004476132	0.058978858	0.01303392	<i>PPFIA2</i>
chr14	52183331	52183988	5	0.004481274	-0.039103153	0.004076741	<i>FRMD6</i>
chr2	84743142	84743935	12	0.004504197	-0.035550187	-0.018328035	<i>DNAH6</i>
chr11	2210061	2210306	3	0.004514061	0.023059414	0.01763325	NA
chr8	132052044	132053262	10	0.004515912	0.031486449	0.014680511	<i>ADCY8</i>
chr1	1003126	1003851	6	0.004534368	-0.053735469	-0.028303476	NA
chr5	140220032	140221364	10	0.004549587	0.060112406	0.027888149	<i>1;PCDHA2;PCDHA3;PCDHA4;PCDHA5;PCDHA6;PCDHA7;PCDHA8</i>
chr6	10320036	10320712	3	0.004651092	-0.025212357	-0.018124946	NA
chr19	33716915	33718148	8	0.004687001	0.032211368	0.007164889	<i>SLC7A10</i>
chr21	45758982	45759752	13	0.004706744	-0.022968222	0.000135186	<i>CFAP410</i>
chr7	97755534	97755792	6	0.004721056	0.031414966	0.021053046	<i>LMTK2</i>
chr16	30006637	30007613	16	0.004725405	0.02080049	0.001724967	<i>BOLA2;HIRIP3;INO80E</i>
chr3	102474183	102474265	3	0.004741578	-0.029204002	-0.016863738	NA
chr15	89904655	89905516	8	0.004786496	0.057353734	0.010029496	NA
chr6	50803820	50804174	6	0.004818141	0.018408365	0.013944767	<i>TFAP2B</i>
chr8	11557217	11557906	3	0.004837798	0.030963021	0.012765526	<i>GATA4</i>

chr6	32375672	32376095	3	0.004838997	-0.108409285	-0.073937555	<i>BTNL2</i>
chr5	149889677	149890075	3	0.004860068	-0.045695361	-0.009101225	<i>NDST1</i>
chr21	45594765	45595361	3	0.004871492	-0.037780979	-0.029393884	NA
chr4	71493251	71494332	4	0.004909623	-0.043748134	-0.012038553	<i>ENAM</i>
chr8	1588618	1589365	5	0.004982806	-0.034457675	-7.30E-05	<i>DLGAP2</i>
chr2	242448543	242449352	12	0.00499031	0.035228203	0.010287472	<i>STK25</i>
chr4	9382765	9383381	3	0.005020852	-0.064145684	-0.02924268	NA
chr4	165304259	165304531	6	0.00502775	0.016246327	0.004301536	<i>MARCHF1</i>
chr17	76354621	76355288	6	0.005058801	-0.060648509	-0.020873668	<i>SOCS3</i>
chr15	67706106	67706575	3	0.005059265	0.027431134	0.006947341	<i>IQCH;IQCH-AS1</i>
chr8	110703888	110704800	9	0.005087341	0.046838364	0.017403339	<i>SYBU</i>
chr4	55967	56185	4	0.005103273	0.041469809	0.029241498	<i>ZNF595;ZNF718</i>
chr2	241807859	241808757	8	0.00511816	-0.035852353	-0.014899495	<i>AGXT</i>
chr18	66381343	66381799	3	0.005131028	-0.037727289	-0.021878348	<i>CCDC102B;TMX3</i>
chr22	41215824	41216528	6	0.005135055	-0.025500509	-0.002368177	<i>SLC25A17</i>
chr13	107026684	107027491	3	0.00513818	-0.027180011	-0.006983413	<i>LINC00460</i>
chr15	45670478	45671347	15	0.005165023	-0.031133945	-0.012667997	<i>GATM</i>
chr6	32904074	32904889	6	0.00517994	0.049714925	0.027762702	<i>HLA-DMB</i>
chr19	47017048	47017629	3	0.005192812	-0.043291309	-0.026549693	<i>PPP5D1</i>
chr20	48701877	48702589	3	0.005192812	-0.025928419	0.002761461	<i>PEDS1-UBE2V1;UBE2V1</i>
chr20	3219539	3220034	4	0.00521412	-0.014907	-0.002732856	<i>SLC4A11</i>
chr14	70883772	70884256	8	0.00521412	-0.016239706	0.001655373	<i>SYNJ2BP;SYNJ2BP-COX16</i>
chr6	74354803	74355165	3	0.005234063	-0.040420801	-0.027303246	<i>SLC17A5</i>
chr12	89744150	89745673	16	0.005255055	0.034803223	0.006669881	<i>DUSP6</i>
chr6	33135269	33137260	18	0.005266361	0.044738538	-0.004743933	<i>COL11A2</i>
chr5	140419819	140420926	8	0.005286084	0.044494447	0.022082951	NA
chr8	4849827	4851008	5	0.005311281	0.034284116	0.009857911	<i>CSMD1</i>
chr18	77138860	77139296	5	0.00533352	-0.054848703	-0.028153853	NA
chr10	3456947	3457368	4	0.005341226	0.030548862	-0.000150283	NA
chr6	168814631	1688154615	4	0.005377696	-0.024584427	-0.017568257	NA
chr1	173174650	173174920	6	0.005428215	0.01881669	0.011989063	<i>TNFSF4</i>
chr2	172377802	172378791	11	0.005486443	0.037624317	0.012982898	<i>CYBRD1</i>
chr13	84456127	84457882	15	0.005489511	0.065601981	0.008012915	<i>SLITRK1</i>
chr15	25326233	25326510	3	0.005509707	-0.035983871	-0.009290716	<i>PW;SNORD116-15;SNORD116-16;SNORD116-18;SNORD116-19</i>
chr2	239072961	239073223	3	0.00551389	0.041206592	0.027531741	NA
chr11	60679546	60681709	17	0.005583394	0.034517054	0.006013295	<i>TMEM109</i>
chr11	2889875	2891118	32	0.005590722	0.052979793	0.012448706	<i>KCNQ1DN</i>
chr15	66790643	66791435	3	0.005608234	-0.032270484	-0.008341683	<i>SNAPC5</i>
chr1	25756455	25757604	15	0.005624996	0.008595257	0.002390471	<i>MACO1;RHCE</i>
chr5	161277234	161277813	3	0.005672956	0.052645254	0.027278376	<i>GABRA1</i>
chr6	31689459	31689996	3	0.005676964	-0.031006414	-0.020223107	<i>LY6G6C;MPIG6B</i>
chr20	238136	238452	4	0.005681791	-0.066365835	-0.019784762	<i>DEFB132</i>
chr2	105655035	105655370	5	0.005710882	-0.024056264	-0.010241168	<i>MRPS9</i>
chr1	45671361	45671665	3	0.005796373	0.035628491	0.011760024	<i>ZSWIM5</i>
chr1	100434874	100436069	21	0.00581573	0.032783374	-0.002431447	<i>SLC35A3</i>
chr2	172955512	172955930	3	0.00581573	0.037162953	0.017429808	NA
chr1	214158373	214159589	8	0.005819828	-0.022799782	-1.78E-05	<i>PROX1</i>
chr7	107301566	107302364	6	0.005831466	-0.017102524	-0.002554516	<i>SLC26A4;SLC26A4-AS1</i>
chr4	57371022	57372597	10	0.00587179	-0.035265391	-0.013632803	<i>ARL9</i>

chr6	33970123	33970919	3	0.005898216	0.049961865	0.028963591	<i>MIR1275</i>
chr1	175712871	175713248	4	0.005930363	-0.081148933	-0.01897398	<i>TNR</i>
chr19	45898849	45899615	4	0.006017028	0.049807267	0.022210629	<i>PPP1R13L</i>
chr6	108439752	108440339	3	0.006042206	0.015620156	-0.002639939	<i>NA</i>
chr8	144161874	144162802	4	0.006055441	0.030823897	0.02258749	<i>NA</i>
chr14	77193902	77194291	3	0.006068875	-0.055972883	-0.014502957	<i>NA</i>
chr5	170288255	170289430	14	0.006098111	0.0066969839	0.018759563	<i>RANBP17</i>
chr3	183897878	183898017	3	0.006138724	-0.027762518	-0.009520148	<i>AP2M1</i>
chr16	30381677	30382569	6	0.00617204	0.012151426	0.003609281	<i>MYLPF;TBC1D10B</i>
chr8	52811374	52812185	12	0.006271688	-0.007818582	0.000932948	<i>PCMTD1</i>
chr4	113970506	113971324	8	0.006271688	0.05731554	0.019197927	<i>ANK2</i>
chr6	110720501	110721629	6	0.00628265	-0.117068834	-0.060612752	<i>DDO;METTL24</i>
chr19	6590801	6591674	8	0.006290099	0.045351389	0.009261382	<i>CD70</i>
chr1	86621931	86622737	7	0.006370148	0.017211316	0.001201046	<i>COL24A1</i>
chr3	149052364	149053027	4	0.006392388	-0.032930607	-0.017506719	<i>TM4SF18</i>
chr6	32054561	32055146	13	0.006396527	0.043888213	0.009446402	<i>TNXB</i>
chr22	27620801	27621065	3	0.006421511	-0.067126449	-0.048630375	<i>NA</i>
chr4	109540778	109542144	16	0.006421511	-0.026888884	-0.000596232	<i>RPL34;RPL34-DT</i>
chr1	2138953	2139657	7	0.00644383	0.020332909	-0.002610524	<i>FAAP20</i>
chr12	13196820	13197550	10	0.006474826	-0.067462656	-0.018505793	<i>FAM234B</i>
chr11	74950764	74951359	4	0.006484558	-0.032204574	-0.025957283	<i>TPBGL</i>
chr14	51562097	51563131	13	0.006490729	-0.018956419	0.004581761	<i>TRIM9</i>
chr1	244541634	244541771	3	0.006495434	-0.030164992	-0.008893449	<i>C1orf100</i>
chr5	77142469	77143258	3	0.006499626	-0.123445602	-0.097823751	<i>NA</i>
chr6	32940489	32943025	28	0.006541649	0.036214195	0.008551458	<i>BRD2</i>
chr7	79083054	79084166	16	0.006562045	0.029192154	0.006160508	<i>MAGI2;MAGI2-AS3</i>
chr2	189434064	189434667	3	0.006583822	0.035977892	0.010756981	<i>GULP1</i>
chr1	110090242	110091625	17	0.006590537	-0.01062039	-0.001033664	<i>GNAI3</i>
chr3	113234510	113235258	4	0.006618541	-0.073530954	-0.052235463	<i>SPICE1</i>
chr14	67655758	67656241	4	0.006618541	0.043519492	0.030081512	<i>FAM71D</i>
chr16	1251787	1252484	6	0.006647928	-0.040933623	-0.00972918	<i>CACNA1H</i>
chr21	40751816	40753285	14	0.006650921	-0.038995194	0.004115166	<i>GET1</i>
chr3	101220713	101220960	3	0.006663196	-0.148146899	-0.066753757	<i>SEN7</i>
chr12	132588323	132588637	4	0.006677384	0.033015274	0.001481158	<i>EP400P1</i>
chr10	32218901	32219402	3	0.00668813	0.014188392	0.00946163	<i>ARHGAP12</i>
chr5	143978290	143978703	3	0.006695377	-0.058581316	-0.037606546	<i>NA</i>
chr3	190610335	190611184	4	0.006702772	-0.02435468	-0.013923838	<i>NA</i>
chr7	4456202	4456592	6	0.006726474	-0.061570074	-0.037827576	<i>NA</i>
chr8	145011406	145012068	3	0.006732496	-0.031574798	-0.012371998	<i>PLEC</i>
chr11	76838498	76838787	6	0.006735704	0.024242395	0.012743628	<i>MYO7A</i>
chr19	8650112	8650523	3	0.006751258	-0.021172488	-0.003909626	<i>ADAMTS10</i>
chr19	47922909	47923683	5	0.006820446	0.015573656	0.009047243	<i>MEIS3</i>
chr1	1897585	1897785	3	0.006821158	-0.043205244	-0.034129611	<i>CFAP74</i>
chr12	120031637	120033155	12	0.006837354	0.027773847	0.00767214	<i>TMEM233</i>
chr17	34841934	34842453	9	0.006910765	0.015721642	0.002355346	<i>ZNHIT3</i>
chr14	75761849	75762018	3	0.006950146	0.012661214	0.00922658	<i>LINC01220</i>
chr17	684490	685151	5	0.006954041	-0.024740021	-0.002657617	<i>GL0D4;MRM3</i>
chr19	1174154	1175076	10	0.006962104	0.037417903	0.008741477	<i>SBNO2</i>
chr6	28549832	28550437	6	0.006962471	0.045059567	0.00505332	<i>ZBED9</i>

chr16	89283569	89284213	8	0.006966781	-0.011703005	-0.001344257	ZNF778
chr2	119067579	119068497	7	0.006980591	-0.052992321	-0.00644702	NA
chr17	35014412	35014676	4	0.006990471	0.01367516	0.000877834	NA
chr12	47219626	47220197	13	0.006995976	-0.066429753	-0.033130735	SLC38A4
chr1	214776286	214776904	11	0.007027542	-0.022844092	-0.008724308	CENPF
chr4	141294522	141295361	12	0.007027542	0.014920616	0.001611148	SCOC;SCOC-ASI
chr17	77375343	77375711	4	0.007041813	-0.03969181	-0.024896794	RBFOX3
chr18	20839953	20840464	3	0.007067553	0.015435061	0.013473234	CABLES1;TMEM241
chr5	172198876	172199667	16	0.007092013	0.012289409	0.001232242	DUSP1
chr7	95225339	95225681	3	0.007105052	-0.040672315	-0.02989576	PDK4
chr3	46918266	46918866	3	0.007108622	-0.027814951	-0.024826294	PTH1R
chr17	42467199	42468131	5	0.007144335	-0.044023589	-0.012525804	ITGA2B
chr14	77925696	77925988	4	0.007173674	0.024595503	0.012604911	AHSA1;VIPAS39
chr10	115311837	115312553	4	0.007181405	-0.050938071	-0.015106717	HABP2
chr17	27920051	27920934	11	0.007185449	-0.019600148	-0.00453838	ANKRD13B;GIT1
chr16	2770814	2771425	5	0.007186416	0.026949326	0.007327735	PRSS27
chr13	95086046	95086170	4	0.007198065	-0.060388775	-0.038905364	NA
chr17	19619905	19620595	5	0.007198065	-0.0314185	-0.014389828	SLC47A2
chr3	193852690	193853465	16	0.007198065	0.020899197	0.001752382	HES1
chr11	128562003	128562408	7	0.007198065	-0.028371339	0.004777096	FLI1;SENCR
chr2	102927278	102927898	5	0.007242051	0.028558027	0.016871457	IL18R1;IL1RL1
chr16	88738320	88738418	3	0.007264418	-0.033312325	-0.003132671	SNAI3-ASI
chr17	43098904	43099567	5	0.007276817	0.042636215	0.007754218	NA
chr10	636076	636090	4	0.007334214	-0.030318028	-0.014719459	DIP2C
chr4	2061325	2061930	7	0.007334214	-0.020687651	-0.007004789	NAT8L
chr6	5145569	5146008	3	0.007363238	0.049203057	0.021878645	LYRM4
chr10	25239164	25239957	4	0.007370663	0.029373979	-0.003311175	PRTFDC1
chr7	73921925	73922494	4	0.007458279	-0.031366561	-0.012379605	GTF2IRD1
chr13	50702410	50703026	7	0.007467181	-0.033421664	-0.01833188	DLEU1;DLEU2
chr8	145638434	145639181	6	0.007555007	-0.040444903	-0.029975849	CPSF1;SLC39A4
chr9	116263261	116263669	4	0.007616366	0.041295797	0.011802043	RGS3
chr4	57522094	57523055	10	0.007619505	0.020789395	0.001476444	HOPX
chr12	46663407	46664096	5	0.007742665	-0.053845595	-0.030892415	SLC38A1
chr8	8859549	8860465	11	0.007742665	-0.036094604	-0.008578133	ERII
chr9	114359776	114360581	3	0.007742665	0.035233697	0.011929221	PTGR1
chr15	85201039	85201545	5	0.007798484	-0.053147654	-0.010465225	NMB;WDR73
chr17	7350001	7350413	4	0.007799936	0.033047113	0.02750645	CHRNBI
chr3	63087235	63087266	3	0.007811409	-0.038811079	-0.012561661	LINC00698
chr10	134116395	134116651	4	0.007811409	-0.025403973	0.000935354	STK32C
chr14	105864312	105864896	8	0.007824226	0.013689141	0.001276876	PACS2;TEX22
chr2	177012117	177012562	5	0.007832782	0.025002623	0.015626947	HOXD4;MIR10B
chr1	879375	879958	4	0.007862775	-0.033930356	-0.014483998	NOC2L;SAMD11
chr17	1733433	1733982	5	0.007893587	0.025977235	0.009624899	RPAL1;SMYD4
chr16	2535757	2536153	3	0.007917915	0.021780756	0.008074512	TBC1D24
chr10	28784890	28785155	4	0.007958826	-0.058116499	-0.031497726	NA
chr1	114696350	114697113	14	0.008072158	0.015831444	0.004603126	SYT6
chr2	171674179	171675106	11	0.008109807	0.022623758	0.007963071	GAD1
chr17	45855265	45855739	3	0.008112544	-0.030965828	-0.020276865	NA
chr17	27333108	27333769	13	0.008201845	0.030160075	0.010886274	SEZ6

chr17	76100646	76101391	7	0.008203637	-0.029813631	-0.013399489	<i>TNRC6C</i>
chr11	107583339	107583988	4	0.008265063	-0.074982764	-0.021792016	<i>SLN</i>
chr1	67395544	67396577	11	0.008265063	-0.01406583	0.000702571	<i>DNAI4;MIER1</i>
chr9	86151648	86152249	3	0.008365529	0.037926763	0.010678453	<i>FRMD3</i>
chr3	125690774	125691192	3	0.008378925	0.023008607	0.012009073	<i>ROPN1B</i>
chr17	77710631	77710872	3	0.008384552	-0.028688027	-0.018441304	<i>ENPP7</i>
chr1	170501645	170501864	4	0.008388362	0.034921968	0.011543347	<i>GORAB</i>
chr10	129923959	129924922	12	0.008417638	0.017531545	0.001866695	<i>MKI67</i>
chr1	2250136	2250860	5	0.008429912	-0.026929741	-0.010190902	<i>NA</i>
chr2	74006665	74007064	6	0.008454113	0.019731387	0.004174873	<i>C2orf78;DUSP11</i>
chr8	20054372	20054715	12	0.008551663	0.048215446	0.009263481	<i>ATP6V1B2</i>
chr2	106015518	106016014	9	0.008557799	0.041743193	0.011785218	<i>FHL2</i>
chr11	68181218	68181383	3	0.008574902	-0.023178523	-0.009533803	<i>LRP5</i>
chr6	41068553	41069048	6	0.008589893	-0.112143281	-0.0678435	<i>ADCY10P1;NFYA</i>
chr19	36499326	36499721	3	0.00861381	-0.032475749	-0.021025015	<i>SYNE4</i>
chr22	42828125	42828447	6	0.008746821	0.018397292	0.010579405	<i>NFAM1</i>
chr11	116969404	116970002	7	0.00876941	-0.033830626	-0.004695877	<i>SIK3</i>
chr22	44394166	44394903	6	0.008815437	-0.017414146	-0.000662331	<i>PARVB</i>
chr4	178363522	178364342	7	0.008815437	0.030570228	0.007022384	<i>AGA</i>
chr10	134983383	134984329	6	0.008826052	-0.039175805	-0.025669852	<i>KNDC1</i>
chr8	11664134	11664728	4	0.008826052	-0.070292649	-0.012709491	<i>FDFT1</i>
chr18	77905298	77905947	8	0.008827479	0.067158985	0.046388903	<i>PARD6G-AS1</i>
chr1	38230948	38231980	7	0.008899921	0.017826307	0.004492959	<i>EPHA10</i>
chr16	55357253	55357776	5	0.008930842	0.045770328	0.01033432	<i>IRX6</i>
chr19	4455316	4456134	7	0.008961835	0.032583413	-3.61E-05	<i>UBXN6</i>
chr3	126134977	126135211	3	0.008965786	-0.058647566	-0.042257145	<i>CFAP100</i>
chr8	82542806	82543618	6	0.009107319	0.015286997	-0.001204227	<i>NA</i>
chr1	18432400	18433192	4	0.009112341	0.038772446	0.01754024	<i>IGSF21</i>
chr8	126479070	126479143	3	0.009186772	0.065862825	0.030800754	<i>NA</i>
chr19	39523158	39524492	8	0.0092096	-0.041696455	-0.020908411	<i>FBXO27</i>
chr17	46711035	46711341	3	0.0092096	-0.067493666	-0.019296673	<i>MIR196A1</i>
chr16	52641156	52641952	4	0.009223835	-0.041942587	-0.008790756	<i>CASC16</i>
chr15	49338748	49339393	11	0.009232217	-0.033398521	-0.003906749	<i>SECISBP2L</i>
chr5	1241224	1241958	5	0.009411134	0.041001849	0.017223429	<i>SLC6A18</i>
chr16	85045118	85045600	9	0.009433081	-0.02216418	-0.001591457	<i>ZDHHC7</i>
chr10	104181982	104182490	3	0.009433081	0.023923019	0.014874846	<i>FBXL15;PSD</i>
chr17	26699169	26699551	4	0.009569837	-0.027674031	-0.011870997	<i>SARM1;VTN</i>
chr1	16302707	16303299	5	0.00958539	-0.055747359	-0.017935787	<i>ZBTB17</i>
chr4	41306412	41306578	3	0.009601541	0.06504899	0.024118394	<i>NA</i>
chr4	128553912	128554327	8	0.009604976	0.011809563	0.003916146	<i>INTU</i>
chr11	9780844	9781231	3	0.009619987	-0.0500783	-0.026293673	<i>LINC02709;SBF2-AS1</i>
chr10	118030848	118031654	6	0.009619987	0.026378052	0.008334862	<i>GFRA1</i>
chr19	45664198	45664763	5	0.009622222	-0.041377343	-0.018658825	<i>NKPD1</i>
chr1	10270439	10270735	7	0.00964953	0.02469445	0.000655343	<i>KIF1B</i>
chr1	55229957	55230822	12	0.009682823	-0.051601506	-0.002553655	<i>PARS2</i>
chr3	111717557	111718457	13	0.009691659	0.03281121	0.010744028	<i>TAGLN3</i>
chr4	81109888	81110459	3	0.009695461	0.040545418	0.035019003	<i>PRDM8</i>
chr17	39471940	39472552	8	0.009698844	0.030438724	0.003945027	<i>KRTAP17-1</i>
chr11	61129864	61130361	7	0.009750703	-0.011294401	0.002583849	<i>CYB561A3;TMEM138</i>

chr1	234367145	234367586	5	0.009770654	-0.084701222	-0.058233636	<i>SLC35F3</i>
chr9	123605229	123606119	9	0.00979805	-0.040929159	-0.023044857	<i>CUTALP;PSMD5</i>
chr19	56098480	56098985	5	0.009833376	-0.015019094	-0.003073738	NA
chr16	29821029	29821173	3	0.009851787	-0.030875229	-0.015267295	<i>BOLA2;MAZ;PRRT2</i>
chr2	38603378	38603784	7	0.009855689	-0.008885176	0.000385589	<i>ATL2</i>
chr6	29944403	29945728	19	0.009862828	-0.033496424	-0.00577272	<i>HCG9;HLA-G;HLA-H;HLA-J</i>
chr19	40909588	40910138	5	0.009869125	-0.026180962	-0.00443123	<i>PRX</i>
chr4	39529342	39530224	13	0.009869125	0.016707911	0.00287834	<i>UGDH;UGDH-AS1</i>
chr6	170554795	170555276	4	0.009870671	-0.048895717	-0.040768462	NA
chr10	134755955	134756707	6	0.009892213	0.037908745	0.024897675	<i>CFAP46</i>
chr1	29448625	29449513	8	0.009895761	-0.02685944	-0.00697139	<i>TMEM200B</i>
chr7	99953465	99954465	6	0.009915429	0.02089436	0.010134323	<i>PILRB</i>
chr12	117593468	117593728	4	0.009942132	-0.026912178	-0.008586821	<i>FBXO21</i>
chr22	51176117	51176734	7	0.009973586	-0.026169564	-0.010545283	<i>ACR</i>
chr16	29973734	29973951	4	0.010011235	0.012312301	0.000952311	<i>BOLA2;TMEM219</i>
chr7	96632294	96633060	6	0.01001561	0.0197594	0.009066553	<i>DLX6;DLX6-AS1</i>
chr2	71221537	71222556	15	0.010057563	-0.015522503	4.00E-05	<i>TEX261</i>
chr11	111848326	111848638	3	0.010086145	0.029228729	0.020642746	<i>DIXDC1</i>
chr2	154336045	154336401	5	0.010090827	-0.044318261	-0.026242754	<i>RPRM</i>
chr14	105707628	105708255	3	0.010100826	0.042149375	0.006359199	<i>BRF1</i>
chr7	946657	947151	3	0.010249903	-0.041437874	-0.019272074	<i>ADAPI</i>
chr16	78179497	78179640	4	0.010258443	-0.026623207	-0.00777838	<i>WWOX</i>
chr9	123964477	123964904	7	0.010266638	-0.034532206	-0.010796552	<i>GSN;RAB14</i>
chr3	42726640	42727489	9	0.010266638	-0.039336452	0.000364685	<i>KLHL40</i>
chr15	89902185	89902570	3	0.01028954	-0.029413948	-0.010083903	NA
chr6	168785320	168785970	8	0.010351399	0.03496718	0.008525825	NA
chr16	84177597	84178213	4	0.010392524	0.013238461	0.006432043	<i>DNAAF1;HSDLI</i>
chr10	133204161	133204297	3	0.010424619	-0.011062142	-0.005211896	NA
chr16	17107610	17107812	3	0.010488997	0.020233766	0.014322843	NA
chr12	131142316	131142708	4	0.010507192	-0.06076567	-0.022254011	<i>RIMBP2</i>
chr3	191216647	191217102	5	0.010571556	0.025598011	-0.005306925	NA
chr11	78285542	78286346	12	0.010633132	0.021637751	0.00618006	<i>NARS2</i>
chr13	26042382	26043165	6	0.010675761	-0.031263694	0.002778829	<i>ATP8A2</i>
chr17	80875493	80876372	6	0.010696619	0.039417749	0.015387103	<i>TBCD</i>
chr16	85397637	85398190	3	0.010698032	-0.032249342	-0.009472887	NA
chr12	103358649	103358881	5	0.010713598	0.023648649	0.010368554	NA
chr14	26674046	26674563	7	0.010778599	-0.010978425	-0.00038186	NA
chr7	4901337	4902050	10	0.010778599	0.048442841	0.024197348	<i>PAPOLB;RADIL</i>
chr4	84519218	84519514	4	0.010847985	-0.029237137	-0.004164346	<i>GPAT3</i>
chr6	43483382	43483748	4	0.010912605	0.03582175	0.013443802	<i>POLR1C;YIPF3</i>
chr1	15885816	15886024	4	0.010922952	0.033783607	-0.000974769	<i>DNAJC16</i>
chr5	1814073	1814816	5	0.010925406	0.022898137	0.00839021	<i>NDUF56</i>
chr11	62160859	62161093	3	0.011006786	-0.122379125	-0.070518037	<i>ASRGL1</i>
chr1	8585852	8586297	4	0.011058359	0.020058144	0.013477052	<i>RERE</i>
chr1	235814009	235814814	11	0.011094562	0.031176951	0.010694585	<i>GNG4</i>
chr3	40279793	40280043	5	0.011097183	-0.038802134	0.003677484	<i>EIF1B-AS1;MYRIP</i>
chr11	126151328	126151408	3	0.011097266	-0.035593378	-0.02217521	<i>TIRAP</i>
chr10	129979292	129979375	3	0.011146205	0.017403023	0.009001187	NA
chr1	182573613	182574609	9	0.011301715	0.019714976	0.001199086	<i>RGS16</i>

chr19	24187194	24187558	4	0.011370022	-0.045335358	-0.011698919	NA
chr13	76054909	76055293	3	0.011383832	-0.012989111	0.001298015	TBC1D4
chr3	156878512	156879083	9	0.011412289	-0.055257526	-0.014437024	CCNL1
chr17	46806445	46806935	6	0.011448614	0.011048925	0.005764849	HOXB13;MIR3185
chr7	127291364	127291658	4	0.011469347	0.05319719	0.022033964	SND1
chr2	285979	286383	3	0.011502017	0.025456179	0.014620799	ALKAL2
chr10	98135085	98135209	4	0.011522124	0.007099631	0.005644886	TLL2
chr3	169782040	169782135	3	0.011522124	0.051629098	0.018315575	GPR160
chr14	104263779	104264228	3	0.011538176	0.033419829	0.014581753	PPP1R13B
chr22	50946582	50947305	5	0.01154242	-0.032415786	-0.010308814	LMF2;NCAPH2
chr19	46498049	46498695	10	0.01154242	0.020683676	0.008371279	CCDC61
chr22	42765436	42765727	4	0.011569531	0.018367555	0.008443816	NA
chr4	680656	681509	6	0.011656135	0.027843782	0.011985039	SLC49A3
chr11	128557265	128557589	3	0.011670913	0.01815361	0.003732451	FLI1
chr11	111411756	111412172	4	0.011697327	0.028872018	0.007760243	LAYN
chr11	47447843	47448534	12	0.011760429	-0.011298674	0.00264638	PSMC3
chr5	90675774	90676249	6	0.011760429	0.023027893	0.005443098	ARRDC3;ARRDC3-AS1
chr16	27241517	27242311	4	0.01177587	0.027756023	0.013792344	NSMCE1
chr7	588478	590098	9	0.011795051	-0.026959893	-0.001487873	PRKAR1B
chr12	54446019	54446308	7	0.011832155	-0.053570633	-0.025240372	HOXC4
chr17	72208322	72208788	4	0.011832155	-0.021411963	-0.006127151	MGC16275;TTYH2
chr6	154677972	154678593	4	0.011860688	0.049867273	0.025630856	IPCEF1
chr3	138668931	138669434	5	0.011864343	0.016756105	0.009199046	FOXL2;FOXL2NB
chr22	37584018	37584441	3	0.011895504	-0.043270624	-0.02715658	C1QTNF6
chr17	66288529	66288795	3	0.011917613	0.013391899	0.003095969	ARSG;SLC16A6
chr1	3620638	3621445	5	0.011921465	-0.046788216	-0.024721096	TP73
chr1	215740071	215740424	3	0.011967432	-0.030424033	-0.017506268	KCTD3
chr6	54130745	54131366	3	0.011980278	-0.03040524	-0.01410755	MLIP
chr2	33823673	33825072	16	0.011995173	-0.023411923	-0.000391422	FAM98A
chr16	89619402	89620236	4	0.011995173	0.01911306	0.002621401	SPG7
chr4	159131393	159132240	8	0.012033408	-0.022835502	0.008116148	TMEM144
chr11	326987	327178	3	0.01209012	0.015347998	0.008041941	NA
chr11	3817692	3818253	4	0.012126098	0.027415038	0.016453621	NUP98;PGAP2
chr11	47587410	47587672	4	0.012203672	0.007798073	0.001876923	NDUFS3;PTPMT1
chr15	25334879	25334988	3	0.01220938	-0.038535116	-0.027805439	IPW;SNORD116-22;SNORD116-23;SNORD116-24
chr1	18959268	18959891	5	0.012278513	-0.018121785	-0.007620429	PAX7
chr12	48577213	48578223	7	0.01233234	0.032491936	0.002973932	CCDC184
chr16	23724428	23724901	8	0.012336161	-0.050109733	-0.009497878	ERN2
chr4	185317908	185318230	3	0.012336161	0.023373302	0.008256745	IRF2
chr3	66311011	66311429	3	0.012347686	-0.031487539	-0.020314921	SLC25A26
chr20	13201193	13201844	15	0.01236167	0.013091614	0.005456837	ISM1
chr11	113844828	113846017	8	0.012417302	-0.032736449	-0.017161531	HTR3A
chr2	2829723	2829759	3	0.012449107	-0.02950197	-0.007682313	NA
chr1	38260810	38261401	7	0.012449107	0.042035882	0.019142792	MANEAL
chr6	31145302	31146471	7	0.012503031	-0.049941892	-0.017793537	PSORS1C3
chr6	33561099	33561449	7	0.012503357	-0.058793156	-0.022375067	LINC00336
chr8	145725402	145726136	5	0.012525591	-0.031035299	-0.023784194	GPT;PPP1R16A
chr5	14440757	14441074	4	0.012542877	0.036176787	0.027817987	TRIO
chr6	112374876	112375870	10	0.012544933	0.045147591	-0.000585219	CCN6

chr3	191046380	191047058	9	0.012560936	0.029552364	0.010884359	<i>CCDC50;UTS2B</i>
chr11	115630531	115631600	13	0.012573604	0.023653049	0.000841578	<i>LINC00900</i>
chr4	15657657	15657883	3	0.012573604	0.048259782	0.024503613	<i>FBXL5</i>
chr14	77767644	77767800	4	0.012620914	0.042197706	0.023640212	<i>POMT2</i>
chr1	223565773	223566794	11	0.012652392	0.057635429	0.024391796	<i>CCDC185</i>
chr14	86000942	86001111	3	0.012652765	0.025077769	0.017603144	<i>FLRT2</i>
chr2	134785392	134786158	5	0.012670692	-0.044654707	-0.020200535	NA
chr7	158550241	158550318	3	0.012670692	0.017941173	0.004639828	<i>ESYT2</i>
chr11	64057807	64058325	3	0.012686091	-0.025960728	-0.018149863	<i>KCNK4</i>
chr13	100641243	100641900	7	0.01272936	-0.030574291	-0.00047517	NA
chr12	72148251	72148853	10	0.012742923	-0.040707708	-0.009139982	<i>RAB21</i>
chr19	17516282	17517008	9	0.012761472	0.009991082	0.005228258	<i>BST2</i>
chr12	46660255	46660338	3	0.012806374	-0.031384217	-0.027936592	<i>SLC38A1</i>
chr12	110316883	110317274	3	0.012875769	-0.02867265	-0.02347919	<i>GLTP</i>
chr15	72598286	72599028	6	0.012875769	-0.02908465	-0.014217706	<i>CELF6</i>
chr12	50419238	50420033	13	0.012900231	-0.019179382	-0.002275536	<i>RACGAP1</i>
chr8	681212	681730	10	0.012942749	-0.018801236	-0.004345281	<i>ERICH1</i>
chr11	2323247	2324005	9	0.012942749	0.026040888	0.010302423	<i>C11orf21;TSPAN32</i>
chr3	155838317	155838625	3	0.012954024	-0.064337375	-0.047782146	<i>KCNAB1</i>
chr22	30901249	30901707	5	0.012954024	-0.027823352	-0.018913983	<i>SEC14L4</i>
chr3	108836912	108837661	8	0.013001293	-0.020434421	-0.007640182	<i>MORC1</i>
chr10	104613613	104614136	9	0.013063828	0.04250503	0.014846236	<i>BORCS7;BORCS7-ASMT</i>
chr11	1216305	1217528	6	0.013114445	-0.039759741	-0.00524022	<i>MUC5B</i>
chr4	1367596	1367848	3	0.013147592	0.01633355	0.003757582	<i>UVSSA</i>
chr15	25929201	25929574	3	0.013224475	-0.025208071	-0.014702136	<i>ATPI0A</i>
chr10	63808748	63809170	13	0.013252159	-0.024860724	-0.016338315	<i>ARID5B</i>
chr4	87812668	87813594	6	0.013270587	0.009653996	0.003431289	<i>C4orf36</i>
chr20	34286194	34286564	3	0.013308328	0.011056633	0.000469189	<i>NFS1;ROMO1</i>
chr6	39758343	39758998	3	0.013343576	-0.021930709	-0.016649843	<i>DAAM2</i>
chr3	112929672	112930438	5	0.013379215	0.020099089	0.008359667	<i>BOC</i>
chr17	40170084	40170622	3	0.013379215	0.046231678	0.026342975	<i>DNAJC7;NKIRAS2</i>
chr2	242749271	242750355	13	0.013383398	0.092695566	0.007035317	<i>NEU4</i>
chr9	107688675	107690075	8	0.01338728	-0.054829485	-0.003709594	<i>ABCA1</i>
chr2	130940427	130940706	3	0.013409765	-0.035141168	-0.021148141	<i>MZT2B;SMPD4</i>
chr6	89791122	89792677	6	0.013443993	0.048495271	0.015299443	<i>PNRC1</i>
chr5	176304609	176305077	3	0.01345495	-0.049153241	-0.006007873	<i>UNC5A</i>
chr2	106681998	106682888	6	0.013479257	-0.043076489	-0.0028979	<i>ECRG4</i>
chr12	16499963	16500795	5	0.013485294	0.042546982	0.022030956	<i>MGST1</i>
chr12	72058171	72058809	6	0.013505458	0.009440806	0.00438656	<i>THAP2;ZFC3H1</i>
chr9	128819840	128819969	3	0.013524061	0.037395262	0.01316392	NA
chr16	712818	713101	5	0.013570177	-0.024315205	0.002245963	<i>RHOT2;WDR90</i>
chr3	122746985	122748086	5	0.013615311	-0.034864926	-0.004386045	<i>SEMA5B</i>
chr7	99775043	99775862	13	0.01362466	0.040304899	0.012961666	<i>GPC2;STAG3</i>
chr5	4230502	4230872	6	0.013691436	-0.029408612	-0.017751308	NA
chr10	116636356	116637130	5	0.013715881	0.06924653	0.03437035	<i>FAM160B1</i>
chr16	28996021	28997041	12	0.013763029	-0.012034847	0.00189143	<i>LAT;SPNS1</i>
chr21	44898090	44898596	5	0.013768591	-0.034273806	-0.020872099	<i>LINC00313</i>
chr13	41593385	41593582	4	0.013788699	-0.02232408	0.001023429	<i>ELF1</i>
chr2	177015812	177016490	8	0.013866233	0.045421686	0.015770118	<i>HOXD4</i>

chr7	94294798	94295390	4	0.013886287	-0.021999013	-0.004991646	<i>PEG10</i>
chr7	27207996	27208347	6	0.013918117	0.022905712	0.008972068	<i>HOXA10-AS;HOXA10-HOXA9;HOXA9</i>
chr7	126988120	126988783	6	0.013920621	0.037512145	-0.000331431	<i>NA</i>
chr9	77230369	77230509	3	0.013925184	0.035281476	0.011109394	<i>RORB</i>
chr4	6299306	6300073	4	0.013946927	0.027960601	0.00582873	<i>WFS1</i>
chr11	66335975	66336293	7	0.013969384	-0.020323435	-0.003849984	<i>CTSF</i>
chr1	42921356	42921931	9	0.013997213	-0.021615367	-0.005859202	<i>PPCS;ZMYND12</i>
chr12	52346851	52347184	5	0.014054947	0.042151822	0.017976943	<i>ACVR1B</i>
chr13	100740707	100741197	10	0.01408501	0.019184639	0.000481188	<i>PCCA</i>
chr6	33400021	33401542	11	0.014090964	0.038510492	0.018661097	<i>MIR5004;SYNGAP1</i>
chr7	91763433	91764605	18	0.014096873	-0.017435482	-0.003201755	<i>CYP51A1</i>
chr19	863054	863244	4	0.014107091	-0.053768882	-0.042317621	<i>CFD</i>
chr16	34979252	34979671	3	0.014130377	0.060390596	0.035918397	<i>LINC02167;RNA5SP411</i>
chr19	30432806	30433293	7	0.014151363	0.01107599	0.004397474	<i>UR11</i>
chr11	122848098	122848518	4	0.014203236	0.018704739	0.002769937	<i>BSX</i>
chr17	43339476	43340243	8	0.014253378	0.021553471	-0.002929467	<i>MAP3K14-AS1;SPATA32</i>
chr4	76911810	76912761	12	0.014392145	0.023296359	0.000757902	<i>SDAD1</i>
chr12	69201477	69202047	8	0.01451669	-0.015995538	-0.002621793	<i>LOC100130075;MDM2</i>
chr13	50707937	50708420	3	0.01451669	-0.018824907	-0.002367893	<i>DLEU1</i>
chr3	137717665	137718043	3	0.014542084	-0.033720614	-0.003369611	<i>CLDN18</i>
chr6	32164927	32165321	4	0.014542705	-0.030059467	-0.021018207	<i>GPSM3;NOTCH4</i>
chr12	131616937	131617481	5	0.014567791	-0.034478469	-0.021784856	<i>ADGRD1</i>
chr16	50321678	50322156	5	0.014575248	0.029749175	0.019790011	<i>ADCY7</i>
chr16	1257807	1257884	3	0.014650769	-0.035957253	-0.001727394	<i>CACNA1H</i>
chr4	109087419	109088046	7	0.014724516	-0.030402065	-0.009682269	<i>LEF1;LEF1-AS1</i>
chr3	10182524	10183112	6	0.014754266	-0.035477898	-0.011197035	<i>VHL</i>
chr6	131571435	131571669	4	0.014865391	0.033006698	0.015403202	<i>AKAP7</i>
chr16	89381904	89382370	5	0.014922321	0.026915888	0.014138152	<i>ANKRD11</i>
chr2	170681271	170682287	9	0.014953815	-0.013200369	0.003150609	<i>METTL5;UBR3</i>
chr16	2314361	2314929	4	0.014963368	-0.022967259	-0.009057282	<i>RNPS1</i>
chr7	98099806	98100419	6	0.014963368	-0.044403246	0.000949976	<i>NA</i>
chr14	38724255	38724945	5	0.015049598	0.038130254	0.01235018	<i>CLEC14A</i>
chr5	140551968	140552600	8	0.015057402	0.065302666	0.016751129	<i>PCDHB7;PCDHB8</i>
chr11	2150902	2151349	4	0.015105789	0.035626754	-0.000332991	<i>IGF2;INS-IGF2</i>
chr3	42306737	42307193	4	0.015115706	0.020490911	0.015882477	<i>CCK</i>
chr8	143330497	143331321	3	0.015152819	-0.024820883	-0.023117002	<i>TSNARE1</i>
chr9	87282548	87283470	8	0.015160876	0.02025282	0.005970286	<i>NTRK2</i>
chr8	80679670	80680899	7	0.01516332	0.021468211	0.00357273	<i>HEY1</i>
chr12	122461295	122461621	3	0.015229998	0.019442688	0.011544787	<i>BCL7A</i>
chr20	34204831	34205488	8	0.015263245	-0.034549462	-0.00306093	<i>SPAG4</i>
chr10	73849124	73849626	4	0.015272798	-0.03613183	-0.010142265	<i>ANAPC16;SPOCK2</i>
chr2	241562424	241562757	5	0.015284112	-0.054140085	-0.034141902	<i>GPR35</i>
chr19	1568534	1569132	5	0.015320628	0.068770167	0.019744886	<i>MEX3D</i>
chr12	77155453	77156412	4	0.015414444	-0.016688732	-0.005219129	<i>ZDHHC17</i>
chr18	44777736	44778021	3	0.015497839	0.044992377	0.022025861	<i>SKOR2</i>
chr11	61891341	61891725	5	0.015523596	0.007407603	-0.000978097	<i>INCENP</i>
chr20	44650062	44650449	9	0.015547779	0.033356821	0.011881369	<i>SLC12A5</i>
chr12	6898500	6898975	5	0.015553208	-0.014565806	0.000593989	<i>CD4</i>
chr12	69604618	69605100	3	0.015575945	0.06021789	0.022339553	<i>NA</i>

chr11	15962841	15963167	5	0.01565407	0.063679907	0.024997066	NA
chr5	3597311	3597760	4	0.015678111	0.030511289	0.007231099	IRX1
chr12	16108919	16109561	4	0.015766804	-0.023333025	-0.004795467	DERA
chr1	182361557	182362757	5	0.015781113	0.058443805	0.002799107	GLUL
chr14	23775663	23776482	7	0.015842387	0.017410025	0.009989892	BCL2L2;BCL2L2-PABPN1;PPP1R3E
chr11	124709577	124709925	4	0.01584788	0.009078193	0.004299894	NA
chr1	113161296	113161717	5	0.015927763	0.017028412	0.004457933	CAPZA1;ST7L
chr6	18122474	18123305	13	0.015936075	-0.047361592	-0.00982758	NHLRC1
chr19	33210464	33210851	9	0.015970017	-0.034816273	-0.001846558	TDRD12
chr8	1860385	1861136	5	0.016074916	-0.068535659	-0.031911664	ARHGEF10
chr9	78504994	78506294	9	0.016077241	0.011028104	0.004869508	PCSK5
chr5	37837463	37837788	3	0.016309819	-0.015773317	-0.014015803	GDNF;GDNF-AS1
chr18	24443729	24444196	4	0.016333599	-0.036108964	-0.006265339	AQP4;AQP4-AS1
chr12	95867190	95867833	12	0.016347296	-0.018005434	-0.000815514	METAP2
chr9	124133073	124133556	4	0.016383762	-0.050126728	-0.031421481	STOM
chr19	12941257	12941875	11	0.016409971	0.024898462	0.003342547	RTBDN
chr19	1752160	1752327	4	0.016466639	0.00905398	0.001775513	ONECUT3
chr13	33859636	33860133	10	0.016492228	0.024175787	0.009345467	STARD13
chr1	247511364	247511469	3	0.016495597	-0.034865011	-0.034125733	NA
chr7	73507241	73507610	7	0.016506676	0.016588752	0.009464845	LIMK1
chr11	31822243	31822341	3	0.016541219	0.045678459	0.019112698	PAX6
chr18	7116421	7116977	4	0.016655152	0.020846948	0.006475401	LAMA1
chr20	58514201	58514806	4	0.016700038	-0.024378445	0.004582785	FAM217B;PPP1R3D
chr5	1201033	1201978	12	0.016734506	-0.041258616	-0.01797588	SLC6A19
chr14	78708634	78709039	4	0.016744444	-0.0277212	-0.015567325	NRXN3
chr1	161337679	161337828	3	0.016778338	-0.041296214	-0.030380846	CFAP126
chr17	19551345	19551893	7	0.016801947	0.01147914	0.001472109	ALDH3A2
chr13	95358476	95358924	4	0.016801947	0.020895137	0.013359023	NA
chr2	38301143	38301756	3	0.016829253	0.019570317	0.010826673	CYP11B1
chr1	28241317	28241765	10	0.016892099	0.030585435	0.00469611	RPA2
chr2	150443536	150444173	7	0.016892705	0.016123947	0.006121105	MMADHC
chr17	4642047	4642647	4	0.016907797	-0.011097559	-0.004386192	CXCL16;ZMYND15
chr16	18813117	18813519	6	0.016931069	-0.016086451	-0.000153658	ARL6IP1
chr12	6960214	6960807	8	0.016939233	0.015213101	0.004816559	CDCA3;USP5
chr12	79257496	79258313	8	0.016957039	0.022804353	0.004288395	SYT1
chr6	32765117	32765402	6	0.016957617	0.018038318	0.008210196	NA
chr6	169351108	169351479	3	0.01703575	-0.024983235	-0.013252172	NA
chr2	24397539	24398170	9	0.017050777	0.060172517	0.022787265	FAM228A;FAM228B
chr5	13944491	13945371	5	0.017090779	-0.050810006	-0.016839704	DNAH5
chr16	25702044	25702614	4	0.017118897	-0.047330155	-0.018655762	HS3ST4
chr1	155239301	155239493	6	0.017118897	-0.030207191	-0.002849294	CLK2
chr1	151512592	151513502	11	0.017217051	0.026441653	0.003808439	MIR554;TUFT1
chr1	6303728	6304499	8	0.017287514	0.028683416	0.015026332	HES3
chr9	131579977	131580113	3	0.017332261	-0.018348417	-0.009455061	ENDOG
chr13	28498384	28499045	6	0.017365737	0.024877662	0.011697577	PDX1
chr4	80329284	80329633	10	0.01744074	-0.031322663	-0.000942135	GK2
chr6	136611553	136611664	3	0.017496784	0.011142114	0.004380516	BCLAF1
chr1	111991797	111992392	10	0.017496784	0.02157396	0.005563106	ATP5PB;WDR77
chr17	73266070	73266642	4	0.017522193	0.019281759	0.007790055	LOC100287042;MIF4GD

chr11	968423	969000	6	0.017607033	0.034947087	0.017324155	AP2A2
chr22	44463707	44464536	3	0.017609212	-0.018544232	0.002534878	PARVB
chr1	181451906	181452048	4	0.017638287	0.019903678	0.00928045	CACNA1E
chr6	170452864	170453283	3	0.017742453	-0.105735517	-0.059487427	NA
chr12	52915214	52915646	3	0.017766562	-0.046565639	-0.01911449	KRT5
chr6	28540442	28541039	5	0.017771632	-0.039892522	-0.008953316	ZBED9
chr7	150721518	150721864	3	0.017799663	-0.031238529	-0.015974283	ABCB8;ATG9B
chr6	100841663	100842099	3	0.017899038	0.01632085	0.005368959	SIMI
chr11	47436290	47436675	3	0.017907771	-0.022467213	-0.016616789	SLC39A13
chr17	73873529	73873924	4	0.017928263	0.017576032	0.009190842	TRIM47
chr3	190580898	190581232	3	0.017958577	0.024340517	0.003645673	GMNC
chr15	30918595	30919020	3	0.017977693	0.02739236	0.01109468	ARHGAP11B
chr11	64563983	64564322	4	0.018032606	0.021009124	0.011083116	MAP4K2
chr17	51900238	51900887	3	0.018086843	-0.020110336	-0.005221338	KIF2B
chr16	5117386	5117565	3	0.01812555	-0.023035118	-0.018926807	ALG1;C16orf89
chr10	88730324	88730946	5	0.018163925	0.043837546	0.020852333	ADIRF;AGAP11
chr7	922165	923365	9	0.018168318	0.036213457	0.007557154	GET4
chr16	86610230	86611049	3	0.018173421	-0.027010088	-0.008168326	FOXL1
chr2	11809997	11810683	10	0.018210583	-0.051796222	0.008867958	NTSR2
chr13	52769289	52769951	5	0.018212197	-0.064852447	-0.025203641	MRPS31P5
chr7	12726089	12726431	7	0.01823128	-0.020838051	-0.005789851	ARL4A
chr15	91498953	91499023	3	0.018260091	-0.044851463	-0.038727031	RCCD1
chr7	64407275	64407743	3	0.018268252	-0.046982651	-0.026630535	NA
chr20	61590751	61591209	4	0.018268252	0.111568374	0.060161573	SLC17A9
chr7	155369184	155369424	3	0.018480252	-0.042403162	-0.006481922	NA
chr1	227071861	227072161	3	0.018562573	0.031789039	0.018656445	PSEN2
chr5	146258354	146259003	12	0.01869486	0.018799074	0.005186449	PPP2R2B
chr5	2642885	2643299	5	0.018708626	-0.047818203	-0.024041555	NA
chr11	65194933	65195039	4	0.018708626	0.03129381	0.023479017	NEAT1
chr8	144635316	144635610	6	0.018708626	0.040001192	0.024293841	GSDMD
chr6	170730413	170730693	3	0.018761766	-0.036066788	-0.023814564	NA
chr2	171570700	171571151	5	0.018767964	0.008332572	-0.000198671	LINC01124;SP5
chr3	194836302	194836847	3	0.01878098	0.073082439	0.029822016	XXYL1
chr10	98946778	98946943	3	0.018807837	-0.032738282	-0.021027563	ARHGAP19;SLIT1;SLIT1
chr6	167189543	167190226	4	0.018815135	0.040445847	0.023201789	RPS6KA2
chr7	135346500	135347371	12	0.018834693	-0.062878604	-0.009145929	STMP1
chr11	74022326	74023050	11	0.018834693	0.024066469	-0.000812873	P4HA3
chr2	1711759	1711966	3	0.018834693	0.031846737	0.027618157	PXDN
chr3	192289245	192289293	3	0.01889601	-0.072383518	-0.06539587	FGF12
chr14	53418316	53419010	5	0.01889601	0.025359172	0.00438134	FERMT2
chr2	176950273	176950736	3	0.018904926	-0.031958044	-0.014567913	EVX2
chr11	59323070	59323620	5	0.018916918	-0.039455567	-0.02404128	NA
chr9	27297089	27297406	3	0.018989306	-0.059844413	-0.027017093	EQTN
chr15	101418967	101419518	13	0.019026747	-0.039925477	0.00322313	ALDH1A3
chr2	66803345	66804145	5	0.019045482	-0.00900993	-0.002642612	NA
chr8	22091132	22091294	3	0.01904579	-0.020555649	-0.014957053	PHYHIP
chr6	138725069	138725799	8	0.019105854	0.014098709	0.002015568	HEBP2
chr1	20208405	20208636	4	0.019125843	0.018009937	0.006046708	OTUD3
chr8	23100643	23101221	4	0.019125843	0.034385945	0.020399271	CHMP7

chr8	1649853	1650172	4	0.019152837	-0.04872224	-0.032825357	<i>DLGAP2</i>
chr2	129659018	129659946	6	0.019225106	-0.043447769	-0.035159392	NA
chr6	26987575	26987810	3	0.019225752	-0.038654526	-0.021408158	<i>LINC00240;LOC100270746</i>
chr4	153699460	153700211	3	0.019225752	-0.028492673	-0.001081499	<i>ARFIP1;TIGD4</i>
chr15	85923174	85923765	7	0.01925728	0.009563377	0.001389125	<i>AKAP13</i>
chr5	8786239	8786867	3	0.019305562	0.018419011	0.005957576	NA
chr2	131673771	131674494	11	0.019310284	-0.052622248	-0.01839003	<i>ARHGFE4</i>
chr10	85974018	85974172	4	0.019348165	-0.049788244	-0.043910902	<i>CDHR1</i>
chr22	21984177	21984483	6	0.019395288	0.00676693	-0.000897164	<i>CCDC116;YDJC</i>
chr12	110778514	110778935	4	0.019508543	-0.021368742	-0.005292355	<i>ATP2A2</i>
chr14	75981868	75981936	3	0.019536274	-0.054773922	-0.047180009	NA
chr18	47013515	47014260	9	0.019536274	-0.041628538	-0.011024448	<i>C18orf32;MIR1539;RPL17-C18orf32</i>
chr18	28681689	28682497	8	0.019536274	0.019510887	0.004422898	<i>DSC2</i>
chr6	168841257	168841574	4	0.019571666	0.03900033	0.02285801	<i>SMOC2</i>
chr6	168613889	168614227	3	0.019607965	-0.041805644	-0.020682735	NA
chr12	108078821	108079012	3	0.019631076	-0.078375328	-0.051430055	<i>PWPI</i>
chr11	32008659	32009163	5	0.019631076	0.03914099	0.01036314	<i>RCN1</i>
chr3	61550379	61550635	3	0.019638134	0.033364006	0.022534342	<i>PTPRG</i>
chr17	32483640	32484259	12	0.019663103	0.023480259	0.007448043	<i>ASIC2</i>
chr17	48242355	48242743	5	0.019711515	-0.017464493	-0.013820871	<i>SGCA</i>
chr2	196933266	196934154	10	0.019770336	0.065327646	0.011790485	<i>DNAH7</i>
chr8	22550720	22551274	9	0.019770729	0.013710523	0.003930715	<i>EGR3</i>
chr13	113739251	113739577	4	0.019772045	-0.022703172	-0.007159556	<i>MCF2L</i>
chr1	159556946	159557632	4	0.019834125	-0.035221474	-0.019101247	<i>APCS</i>
chr14	94546481	94546857	3	0.01987795	-0.016720813	-0.000606241	<i>DDX24;IFI27L1</i>
chr2	171782647	171783942	3	0.019903524	0.031055663	-0.000447773	<i>GORASP2</i>
chr7	157293538	157293606	3	0.019904981	-0.040798581	-0.022217928	NA
chr1	228195522	228195794	3	0.019933544	-0.022942088	-0.009429453	<i>WNT3A</i>
chr5	43191672	43192025	6	0.019944773	0.049592105	0.014624864	<i>NIM1K;ZNF131</i>
chr5	171594998	171595487	4	0.019969259	0.028195604	0.016667813	<i>STK10</i>
chr1	156047061	156047509	5	0.019976405	0.025089682	0.010881224	<i>LMNA;MEX3A</i>
chr5	1183037	1183424	4	0.01999664	-0.033177734	-0.011879911	NA
chr3	195488725	195489306	3	0.020128512	0.057311711	0.039006333	<i>MUC4</i>
chr8	82643667	82644012	3	0.020191286	-0.038026676	-0.02548643	<i>CHMP4C</i>
chr14	93388800	93389249	7	0.020191286	-0.031989453	-0.011988399	<i>CHGA</i>
chr1	9258678	9259066	5	0.020220158	-0.02812446	-0.013593748	NA
chr2	236619445	236619825	5	0.020239149	0.03713291	0.007881352	<i>AGAP1</i>
chr6	99396000	99396345	8	0.020276865	0.048138254	0.011762623	<i>FBXL4</i>
chr11	3121024	3121590	5	0.020287685	0.031158132	0.00924909	<i>OSBPL5</i>
chr17	73780035	73780729	11	0.020386629	0.026943982	-0.000245312	<i>H3-3B;MIR4738;UNK</i>
chr1	38471336	38472003	7	0.020406812	0.020441063	0.010352916	<i>FHL3</i>
chr12	54133422	54133730	5	0.020441454	0.01958574	0.004026022	NA
chr13	79234144	79234435	4	0.020482526	0.080294363	0.055252153	<i>OBI1</i>
chr2	105858730	105859083	4	0.020530939	-0.029828845	-0.006836562	<i>GPR45</i>
chr11	2161846	2162363	6	0.020618043	-0.021528498	-0.005000539	<i>IGF2;IGF2-AS;INS-IGF2</i>
chr17	78962984	78963290	4	0.020641081	-0.070397791	-0.031300911	<i>CHMP6</i>
chr3	197475824	197476591	14	0.020720756	0.012298156	0.003086592	<i>FYTTD1;RUBCN</i>
chr17	20799408	20799532	5	0.020725226	0.074583058	0.047950841	<i>CCDC144NL</i>
chr12	113787113	113787384	3	0.020732983	-0.047829967	-0.042656959	NA

chr16	28986645	28986829	4	0.020770554	0.027567142	0.012953397	<i>SPNS1</i>
chr14	61113963	61114476	3	0.020775267	-0.031673198	-0.012940558	<i>SIX1</i>
chr17	202588	203392	8	0.020790578	0.036582546	0.0076714	<i>RPH3AL</i>
chr9	130540941	130541531	6	0.020888727	0.017614949	0.007732008	<i>SH2D3C</i>
chr7	70597351	70598282	10	0.021047784	-0.016584387	0.002310025	<i>GALNT17</i>
chr11	126453681	126453743	3	0.021177659	0.030652279	-0.000769003	<i>KIRREL3</i>
chr20	57463572	57464002	18	0.021185132	-0.03310932	-0.010875921	<i>GNAS</i>
chr5	3285935	3286296	6	0.021208298	-0.046933947	-0.010268744	NA
chr13	33112842	33113343	10	0.021228336	0.025277579	0.008658923	<i>N4BP2L2</i>
chr14	104019386	104019746	4	0.021228336	0.021578602	0.009239658	NA
chr8	143086298	143086459	3	0.021229227	0.023994407	0.00837839	NA
chr12	118541055	118541585	4	0.021255866	0.007013155	0.002502063	<i>VSIG10</i>
chr3	123603316	123603624	6	0.021264899	0.028900048	0.010032683	<i>MYLK</i>
chr15	96868430	96869220	10	0.021278748	-0.023197358	0.005403233	<i>NR2F2;NR2F2-AS1</i>
chr8	145580712	145581006	6	0.021323875	-0.030606044	-0.010396294	<i>FBXL6;SLC52A2;TMEM249</i>
chr17	19651983	19652535	5	0.021344859	-0.030092283	-0.011634153	<i>ALDH3A1</i>
chr11	93430585	93430980	3	0.021402912	0.042151902	0.017476278	<i>CEP295</i>
chr5	31193844	31194749	9	0.021411174	-0.013236796	0.002777589	<i>CDH6</i>
chr10	11784058	11784473	7	0.021548434	0.016445743	0.005279311	<i>ECHDC3</i>
chr12	132303409	132303735	4	0.021548771	-0.034102327	-0.006245412	NA
chr21	43528205	43528868	4	0.021560694	0.078280575	0.020528533	<i>UMODL1;UMODL1-AS1</i>
chr22	18592265	18592555	3	0.021584878	-0.026493255	-0.010679312	<i>TUBA8</i>
chr22	39745530	39746054	7	0.021740192	0.020277219	0.00835966	<i>SYNGR1;TAB1</i>
chr1	155053851	155054210	3	0.021752524	-0.016070586	-0.005386751	<i>EFNA3</i>
chr18	5197327	5197632	8	0.021806644	0.025729495	0.012127394	<i>AKAIN1</i>
chr16	85393998	85394259	3	0.021815162	-0.024740848	-0.01520611	NA
chr2	121791173	121792073	3	0.021823735	0.024051688	0.004724195	NA
chr1	205391381	205391881	4	0.021857008	-0.031872158	-0.016281468	<i>LEMD1</i>
chr14	24777708	24778279	6	0.021863135	-0.028554685	-0.014226357	<i>CIDEB;LTB4R;LTB4R2</i>
chr12	50306291	50306547	3	0.021863135	0.025068531	0.002039659	<i>LINC02396</i>
chr6	111888446	111888870	6	0.02187874	0.019131408	0.011662572	<i>TRAF3IP2;TRAF3IP2-AS1</i>
chr22	37266498	37266803	4	0.022001593	-0.025245128	-0.014053075	<i>NCF4</i>
chr1	160642715	160642975	3	0.022028049	-0.049576111	-0.03356809	NA
chr12	52399713	52400663	8	0.022124239	-0.037529971	-0.002333639	<i>TAMALIN</i>
chr10	135090997	135091571	4	0.022125074	0.041008677	0.016472813	<i>ADAM8</i>
chr17	7328520	7328921	7	0.022129147	0.034355615	0.003254353	<i>SPEM2</i>
chr12	13363855	13364374	5	0.02214266	0.064381225	-0.004179311	<i>EMPI</i>
chr21	34305156	34305354	3	0.022249822	-0.035209985	-0.017552127	NA
chr2	24712657	24713283	4	0.022249822	0.054204326	0.022710488	NA
chr12	56881865	56882535	9	0.022443542	-0.014225834	0.003398976	<i>GLS2</i>
chr19	49296684	49296857	5	0.022598541	0.045336673	-0.000311653	NA
chr20	1471884	1472419	6	0.022679169	0.021884	0.011208665	<i>SIRPB2</i>
chr15	25123287	25123688	4	0.022691805	0.057994045	0.036139917	<i>SNRPN</i>
chr4	158142677	158142891	5	0.022707336	0.01940577	0.008425743	<i>GRIA2</i>
chr20	33033099	33033157	3	0.02272061	0.025116997	0.02322378	<i>ITCH</i>
chr15	72667883	72668275	7	0.022726354	0.010772704	0.001525627	<i>CELF6;HEXA;HEXA-AS1</i>
chr14	23835870	23836047	3	0.022731236	-0.043409534	-0.011338528	<i>EF3</i>
chr8	496128	4961739	6	0.02275252	-0.034214706	-0.002950077	<i>TDRP</i>
chr11	116661043	116661678	5	0.022762862	-0.038199235	-0.020768039	<i>APOA5;ZP1</i>

chr15	29213736	29213860	3	0.022762862	0.028183811	0.021407833	APBA2
chr11	404596	404762	3	0.022813436	-0.019447911	-0.01456826	PKP3
chr16	52108906	52109206	3	0.022817156	-0.023655107	0.003895725	C16orf97
chr8	101965385	101965903	10	0.022863394	-0.009678475	0.000325887	YWHAZ
chr17	16118138	16118806	4	0.022875297	0.011830731	0.004757439	NCOR1;PIGL
chr11	125133120	125133668	5	0.022899434	-0.022657776	0.000365521	PKNOX2
chr4	105411270	105411756	3	0.022905494	-0.048522119	-0.034182578	CXXC4
chr6	52110012	52110447	3	0.022918434	0.020478818	0.011484165	IL17F
chr17	74911940	74912348	3	0.022980137	-0.04640207	-0.015488787	MGAT5B
chr14	65409452	65410479	8	0.022995695	0.019007929	0.004094588	CHURC1-FNTB;GPX2
chr9	19464676	19465241	3	0.023079217	0.042619423	0.023995942	NA
chr19	46170845	46171507	8	0.023115806	0.014834267	0.006228901	GIPR
chr9	97402555	97403129	3	0.02314294	-0.024695078	-0.021684236	FBP1
chr2	44587949	44588074	4	0.023225857	0.0217331	0.014296306	CAMKMT;PREPL
chr12	12185594	12186137	4	0.023243395	-0.01208105	0.000354224	ETV6
chr6	32178017	32178603	5	0.023266676	-0.018276763	-0.011363245	NOTCH4
chr14	89016862	89017615	5	0.023348745	0.033515943	-0.003354923	PTPN21
chr19	52598653	52599329	9	0.023373546	0.029027302	0.00970716	ZNF841
chr7	106508373	106508732	3	0.023400687	-0.017445262	-0.015185591	PIK3CG
chr1	39492366	39492570	4	0.023406072	0.007008673	0.003377416	NDUFS5
chr5	125935836	125936553	11	0.023532654	0.025986287	0.006059819	ALDH7A1;PHAX
chr6	167317118	167317799	4	0.023564465	-0.043101109	-0.020642761	NA
chr16	1464758	1465405	6	0.023564465	0.017749618	0.006211646	UNKL
chr1	1261040	1261485	4	0.023649141	-0.026023616	-0.01656113	CPTP;INTS11
chr2	176947764	176947940	3	0.023674895	0.020364621	0.006114645	EVX2
chr2	45168507	45168924	6	0.023683999	-0.007801087	-0.001222593	SIX3
chr20	17822840	17823154	4	0.023693464	-0.046464128	-0.002018904	NA
chr12	54943700	54943915	6	0.023711605	0.028062217	0.011552395	PDE1B
chr1	83450735	83450929	3	0.023713827	0.021810324	0.004219194	NA
chr10	16478471	16479192	11	0.023754407	-0.037196429	-0.001791577	PTER
chr19	4636208	4636457	3	0.023836196	-0.015030853	-0.002141031	TNFAIP8L1
chr5	141016102	141016960	9	0.023851437	-0.01236553	-0.003091708	HDAC3;RELL2
chr8	144451413	144451924	5	0.023878133	0.029806916	0.01472412	RHPNI;RHPNI-AS1
chr1	23888963	23889092	3	0.023896949	0.025652412	0.016534971	ID3
chr6	170249394	170249553	3	0.023998131	-0.022627538	-0.016335257	NA
chr14	104394430	104394831	6	0.024019313	0.089471006	0.036537013	TDRD9
chr6	33039396	33039500	5	0.024058589	-0.037796361	-0.021043238	HLA-DPA1;HLA-DPB1
chr1	203317248	203317913	7	0.024092207	0.030135337	0.00032323	FMOD
chr15	92612836	92613280	3	0.024098082	-0.033647209	-0.007819202	SLCO3A1
chr19	28237512	28237993	3	0.024120822	0.057346622	0.04544144	NA
chr11	125496092	125496752	7	0.024159204	0.021980646	0.006678548	CHEK1
chr22	36011843	36012221	4	0.024285242	0.026117115	0.015427575	MB
chr1	110752047	110752307	4	0.024286671	-0.078972663	-0.037325465	KCNC4
chr19	38924045	38924436	10	0.024286671	0.011466878	0.005161612	RYR1
chr5	34657262	34657458	3	0.024345737	-0.016202052	-0.008558062	RAI14
chr1	47010056	47010223	3	0.024345737	0.029854663	0.009030805	MKNK1-AS1
chr3	52719141	52719354	4	0.024436017	0.020467557	0.006408857	GNL3;PBRM1;SNORD19
chr11	103766022	103766274	3	0.024466681	-0.030581463	-0.015776525	NA
chr17	37921981	37922420	3	0.02451487	-0.02100726	-0.001453977	IKZF3

chr8	38853964	38854671	11	0.02451487	0.009027686	0.00159969	ADAM9;TM2D2
chr1	161184305	161185092	7	0.02451487	0.031936457	0.014176873	FCER1G
chr12	114842700	114845223	18	0.024591482	0.048781914	0.003902481	TBX5;TBX5-AS1
chr6	24646676	24647210	5	0.024650081	0.099228194	0.043088854	KIAA0319
chr17	35084975	35085134	3	0.024655108	0.034097	0.021352108	NA
chr13	112721712	112721950	7	0.024662474	0.015758581	0.009592974	SOX1
chr14	95429455	95429455	3	0.024677834	-0.028502528	-0.015300771	NA
chr5	37952598	37953410	4	0.024746792	-0.042873331	-0.027041366	NA
chr2	182547401	182548308	7	0.024752211	0.017032391	0.007770214	CERKL;NEUROD1
chr5	32099080	32099275	3	0.024766582	0.01942187	0.012061164	PDZD2
chr5	119798890	119799531	3	0.024880928	-0.056879743	-0.017131867	PRR16
chr1	165512980	165513361	6	0.024884072	0.022397583	0.012432044	LRRCS2;LRRCS2-AS1
chr5	140515039	140515675	5	0.024916363	0.061011817	0.006644391	PCDHB5
chr7	131377001	131377089	3	0.024927178	0.016180235	0.008902132	NA
chr6	71276074	71276807	11	0.024927301	0.022741616	0.006311998	SDHAF4
chr8	143824243	143824586	4	0.025017228	-0.030013331	-0.008547401	SLURP1
chr9	100850334	100850391	3	0.025017228	0.045672215	0.038316006	TRIM14
chr5	6411286	6411510	3	0.025032372	-0.032656339	-0.016572113	NA
chr11	32450244	32450692	4	0.025120186	0.024028611	0.017250414	WT1
chr22	46449981	46450707	7	0.025160502	-0.040170169	-0.016098671	MIRLET7BHG;PRR34;PRR34-AS1
chr6	30313380	30313742	8	0.025184088	0.028525862	0.005430512	RPP21;TRIM39-RPP21
chr15	25522119	25522378	3	0.025226568	0.057388763	0.014609246	SNORD109B
chr11	12695497	12695578	3	0.02527706	0.013056382	0.004072279	TEAD1
chr5	124043109	124043436	3	0.025315783	0.033143796	0.006538068	ZNF608
chr15	40846077	40846513	4	0.025335158	0.038675377	0.011567243	CCDC32
chr8	142437128	142437236	4	0.025410364	-0.014984974	-0.010747116	PTP4A3
chr2	27072271	27072641	5	0.025416615	0.01601962	0.008407228	DPYSL5
chr3	142666108	142666759	5	0.025431932	-0.05223753	-0.040759409	NA
chr9	4299861	4300432	7	0.025431932	0.019734734	0.003296244	GLIS3
chr4	6998522	6998625	4	0.025551261	-0.01680152	-0.007015803	TBC1D14
chr9	21974871	21975497	10	0.02556429	0.010285324	0.004653956	CDKN2A;MTAP
chr1	61547131	61547758	8	0.025575738	-0.024327743	-0.008121035	NFIA
chr6	5132887	5133630	7	0.025593667	0.034169191	0.015205004	LYRM4
chr10	75119387	75119844	4	0.02559934	-0.020951259	-0.01481073	CFAP70
chr18	55108852	55109254	5	0.025624932	0.020217626	0.006203969	ONECUT2
chr6	28641651	28642279	10	0.025648535	0.014627668	0.00620672	NA
chr15	91642909	91643381	11	0.02572656	-0.027098222	-0.002171689	SV2B
chr1	217310572	217311014	3	0.025785077	0.01661747	0.009532718	ESRRG
chr2	3698421	3698862	4	0.025785077	0.019339039	0.011915336	NA
chr1	26735606	26736154	8	0.025820322	0.016014874	0.004300058	LIN28A
chr11	74424489	74424521	3	0.025836647	-0.022538949	-0.013075695	CHRD12
chr1	76251537	76252291	10	0.025876342	0.014538526	0.002960669	RABGGTB;SNORD45A;SNORD45B;SNORD45C
chr20	17206529	17206999	8	0.025895299	0.021829044	0.003923424	PCSK2
chr22	50984767	50985117	3	0.025979439	-0.050474164	-0.032078622	KLHDC7B
chr22	50353996	50354243	6	0.026043279	-0.009681924	-0.002981231	PIM3
chr15	45003321	45003957	12	0.026091059	0.017633964	0.003561171	B2M;PATL2
chr4	85416865	85417312	4	0.026119239	0.023095438	0.011582708	NKX6-1
chr22	19136844	19137222	3	0.02613693	0.040896533	0.021104974	ESS2;GSC2
chr1	2574031	2574349	3	0.026268762	0.006080382	0.004791678	TTC34

chr11	2011341	2012180	5	0.026291223	-0.022978672	-0.004223189	<i>MRPL23-AS1</i>
chr15	28341714	28342256	6	0.026291223	0.009525506	0.004057453	<i>OCA2</i>
chr2	180130081	180130591	3	0.026341532	-0.034036101	-0.01849387	<i>SESTD1</i>
chr9	112213987	112214232	3	0.026341532	0.054679894	0.024633835	<i>PTPN3</i>
chr15	85525384	85525744	4	0.026368502	0.017262609	0.00738586	<i>PDE8A</i>
chr9	35096622	35096980	7	0.026392458	0.041568991	0.002595048	<i>PIGO</i>
chr3	55515017	55515232	4	0.026411637	-0.036233227	-0.014323345	<i>WNT5A</i>
chr15	29967531	29968195	6	0.026527108	-0.054312737	-0.030798082	<i>NA</i>
chr1	3059626	3059826	4	0.026551097	-0.013027713	-0.00353888	<i>PRDM16</i>
chr14	105070998	105071714	4	0.026602183	0.014988288	0.010854215	<i>TMEM179</i>
chr6	64346520	64346784	3	0.026618316	0.007833165	0.006343505	<i>PHF3</i>
chr6	170581690	170581971	3	0.026672527	-0.018557991	-0.005403425	<i>NA</i>
chr1	48176494	48176755	3	0.026707951	-0.018820214	-0.010828987	<i>NA</i>
chr6	30122388	30123034	6	0.026779227	0.057411012	0.028195137	<i>TRIM10</i>
chr1	7074500	7074719	3	0.026798878	-0.026452575	-0.004427897	<i>CAMTA1</i>
chr11	66085250	66085453	3	0.026853216	0.01545596	0.008081731	<i>CD248</i>
chr12	57943007	57943421	5	0.02687898	-0.029214225	-0.010227936	<i>DCTN2;KIF5A</i>
chr9	5811764	5812604	3	0.026914375	-0.046796259	-0.022903236	<i>ERMP1</i>
chr5	140479979	140480770	8	0.026914375	0.056735988	0.023927405	<i>PCDHB3</i>
chr3	11079491	11079879	4	0.026978592	-0.040531897	-0.018589551	<i>SLC6A1</i>
chr6	27342941	27343415	3	0.026985882	0.038424501	0.019754972	<i>ZNF204P</i>
chr10	30724020	30724374	4	0.026987792	0.011854131	0.003745507	<i>MAP3K8</i>
chr8	25316023	25316123	4	0.02699685	0.011985539	0.005693529	<i>CDCA2;KCTD9;PPP2R2A</i>
chr2	132439921	132440047	3	0.02699685	0.058074186	0.032634191	<i>NA</i>
chr16	2008723	2009157	4	0.027034581	0.034369142	0.019874673	<i>NDUFB10;RPL3L</i>
chr2	236961065	236961189	3	0.027060999	-0.028070156	-0.005062193	<i>AGAP1</i>
chr10	12110577	12110799	7	0.027074058	-0.028558716	-0.003236898	<i>DHTKD1</i>
chr10	127512288	127512596	3	0.027179236	0.006331234	0.000928336	<i>BCCIP;UROS</i>
chr16	31054328	31054411	3	0.027198657	-0.016523414	-0.00754951	<i>NA</i>
chr1	110420044	110420800	3	0.027211809	0.034268241	0.011590246	<i>NA</i>
chr19	46318918	46319398	4	0.027221056	0.018325299	0.012533421	<i>RSPH6A;SYMPK</i>
chr17	81041756	81042023	4	0.027287295	-0.032012312	-0.00697	<i>METRNL</i>
chr1	222011091	222011349	4	0.027287295	0.025607738	0.015653393	<i>NA</i>
chr15	81426347	81426820	9	0.027288752	-0.046884841	-0.023041827	<i>CFAP161</i>
chr7	1265635	1266180	3	0.027293356	-0.038750906	-0.02760816	<i>NA</i>
chr3	40519358	40519626	3	0.027360656	-0.035568749	-0.017526059	<i>ZNF619</i>
chr16	66955873	66956242	6	0.027388639	0.054524555	0.031340158	<i>CDH16;RRAD</i>
chr6	31855906	31856502	14	0.027405142	-0.018528863	-0.004760602	<i>EHMT2</i>
chr1	145610622	145611278	17	0.027405142	-0.008697759	-0.000337869	<i>NBPF10;NBPF20;POLR3C;RNF115</i>
chr14	24520788	24521326	4	0.027405142	0.01511479	0.007347077	<i>CARMIL3</i>
chr3	113615491	113616031	3	0.027444433	-0.051079851	-0.012781113	<i>GRAMD1C</i>
chr17	48280257	48280432	4	0.02752504	-0.037499484	-0.017148691	<i>COL1A1</i>
chr8	140643119	140643434	3	0.027541398	0.035004235	0.017289078	<i>KCNK9</i>
chr12	64238325	64238719	9	0.027738897	0.008904474	0.003094841	<i>SRGAP1</i>
chr9	100617710	100618115	4	0.027738897	0.039175613	0.017452089	<i>FOXE1</i>
chr8	22799470	22799734	3	0.027747836	-0.023451685	-0.016321841	<i>NA</i>
chr1	21501248	21501736	7	0.027780678	-0.042314639	-0.017035453	<i>EIF4G3</i>
chr11	72294904	72295168	3	0.027868195	-0.029061897	-0.007055535	<i>PDE2A</i>
chr4	3735966	3736042	3	0.027894434	-0.050198335	-0.015859668	<i>NA</i>

chr22	38241182	38241410	3	0.027904789	0.03328146	0.000575852	<i>ANKRD54;EIF3L;MIR658</i>
chr11	76849101	76849564	4	0.027937139	-0.029968382	-0.023470762	<i>MYO7A</i>
chr16	89100786	89100903	3	0.027959647	0.024864664	0.001230378	NA
chr4	7195002	7195466	3	0.027982094	-0.038297471	-0.014963624	<i>SORCS2</i>
chr6	170102889	170103058	3	0.028055734	-0.01387047	-0.010915622	<i>C6orf120;WDR27</i>
chr1	53308654	53309019	4	0.028055734	0.02948447	0.0188387	<i>ZYG11A</i>
chr15	57998371	57998781	10	0.028068001	-0.056553833	-0.008237595	<i>GCOM1;MYZAP;POLR2M</i>
chr17	36105029	36105517	9	0.028073981	0.026962804	0.005926166	<i>HNF1B</i>
chr5	41509849	41510325	5	0.028081176	-0.066076662	-0.03800563	<i>PLCXD3</i>
chr14	81999463	81999924	3	0.028081176	-0.045160235	-0.01363466	<i>SEL1L</i>
chr8	97247529	97248129	11	0.02830311	-0.02553003	0.000417901	<i>UQCRB</i>
chr3	182971025	182971663	7	0.028487964	-0.007650609	-0.000657622	<i>B3GNT5;MCF2L2</i>
chr2	217658323	217658498	3	0.028630089	-0.021304179	0.000336495	NA
chr2	185462847	185463218	6	0.028669336	-0.017084556	0.00029003	<i>ZNF804A</i>
chr15	89911148	89911317	3	0.028689048	0.012820907	0.009718586	<i>MIR9-3;MIR9-3HG</i>
chr1	19991237	19992024	5	0.028702277	0.021850802	-0.004224142	<i>HTR6</i>
chr1	53792560	53792939	3	0.028718332	0.005950184	0.002744323	<i>LRP8</i>
chr17	76713041	76713517	7	0.028718332	0.028804223	0.021711862	<i>CYTH1</i>
chr6	163746145	163746319	3	0.028767448	0.039324607	0.027523046	<i>PACRG-AS1</i>
chr19	37328842	37328990	3	0.028773429	0.010310071	0.006507676	<i>ZNF790</i>
chr6	150219292	150219675	3	0.028977372	-0.033334848	-0.019643023	<i>RAET1E;RAET1E-AS1</i>
chr3	193973035	193973521	3	0.029027313	0.010354607	0.004387213	NA
chr11	124311399	124311550	4	0.029138269	-0.023279658	-0.002776575	<i>OR8B8</i>
chr1	53579371	53579547	3	0.029232361	-0.024357588	-0.013161679	<i>SLC1A7</i>
chr6	24774713	24775047	6	0.02927862	-0.048254325	-0.014160241	<i>GMNN</i>
chr17	79094415	79094934	3	0.02931293	-0.02078737	-0.008889646	<i>AATK;MIR3065</i>
chr17	78774609	78774723	3	0.029352618	-0.014187866	-0.010935132	<i>RPTOR</i>
chr6	30139686	30140231	9	0.029375403	-0.027781867	-0.011924865	<i>TRIM15</i>
chr20	43439545	43439706	3	0.029385697	-0.074181254	-0.046454932	<i>RIMS4</i>
chr5	159626770	159627003	3	0.029392427	0.026905169	0.021201041	<i>FABP6</i>
chr4	57396219	57396890	11	0.029410415	0.034895586	0.005754488	<i>THEGL</i>
chr4	53728923	53729461	4	0.029451498	0.027379096	0.015911458	<i>RASL11B</i>
chr19	52205761	52206258	4	0.029473847	0.039475047	0.015769342	<i>SPACA6</i>
chr5	2537496	2537834	6	0.029473847	0.069772198	0.040276609	NA
chr12	125023590	125023878	4	0.02948424	0.04595523	0.012809122	<i>NCOR2</i>
chr8	104512877	104513083	4	0.029487563	0.012649762	0.006217775	<i>RIMS2</i>
chr2	227700114	227700467	5	0.02952953	0.035842736	0.02201009	<i>RHBDD1</i>
chr17	37123638	37123949	9	0.029547441	-0.060652729	-0.029859439	<i>FBXO47</i>
chr6	31852503	31852982	8	0.029686912	-0.030452792	-0.003562915	<i>EHMT2</i>
chr6	31112957	31113086	4	0.02971155	-0.024485805	-0.014296999	<i>CCHCR1</i>
chr1	203097234	203097628	7	0.029737275	0.026516028	0.006904199	<i>ADORA1</i>
chr17	7452043	7452343	7	0.029745328	-0.008683564	-0.000147404	<i>TNFSF12;TNFSF12-TNFSF13</i>
chr8	514736	514821	3	0.029786733	-0.036088087	-0.031581865	NA
chr6	25218855	25219327	5	0.029793703	0.051038129	0.012767096	NA
chr22	25201812	25202086	7	0.029801017	-0.024945537	-0.009811597	<i>SGSM1</i>
chr15	70390440	70391035	6	0.029828889	-0.026045407	-0.002799787	<i>TLE3</i>
chr4	128651206	128651707	10	0.029892799	-0.028323731	-0.005522235	<i>SLC25A31</i>
chr2	121107018	121107495	4	0.029905695	0.073126976	0.022386841	<i>INHBB</i>
chr6	53530503	53530944	7	0.029954055	-0.044409666	0.013368806	<i>KLHL31</i>

chr1	34643098	34643124	3	0.029960342	0.035080042	0.020846612	<i>Clorf94</i>
chr4	1504989	1505266	4	0.030009683	-0.031011779	-0.019280728	NA
chr5	63258311	63258592	3	0.030069762	0.031545908	0.020687242	<i>HTR1A</i>
chr12	54393442	54393980	13	0.030112232	-0.024113011	0.00325911	<i>HOXC9</i>
chr21	22368940	22369485	3	0.030123185	-0.023699921	-0.017094397	<i>NCAM2</i>
chr2	128051708	128051925	5	0.030217453	-0.01451796	-0.003875827	<i>ERCC3</i>
chr11	7695165	7695528	8	0.030306072	-0.032282688	-0.008909062	<i>CYB5R2</i>
chr7	81400307	81400745	3	0.030309811	-0.029162117	0.00328892	<i>HGF</i>
chr12	51449781	51450025	3	0.030405659	-0.019362349	-0.012337065	<i>LETMD1</i>
chr9	131181156	131181539	4	0.030429538	0.016697993	0.006751288	<i>CERCAM</i>
chr19	5978140	5978790	12	0.030467025	0.01471788	0.00298657	<i>LOC100128568;RANBP3</i>
chr1	179555635	179555662	3	0.030471879	0.042255652	0.015454922	NA
chr2	241171798	241172573	5	0.030473538	0.038232537	0.003193304	NA
chr8	57232395	57232898	5	0.030512084	0.033436624	0.017071524	<i>SDR16C5</i>
chr5	172572037	172572253	5	0.030526861	0.015335984	0.008798657	<i>BNIP1</i>
chr2	86038423	86038802	4	0.03055858	-0.043388234	-0.024938758	<i>LOC284950</i>
chr5	102201490	102202139	9	0.030574679	0.026244809	0.010049167	<i>PAM</i>
chr13	47125801	47126551	5	0.03058409	-0.038270152	-0.019618308	<i>LRCH1</i>
chr2	9865047	9865477	3	0.030619694	0.023219212	0.002474584	NA
chr13	46038653	46039090	7	0.030699699	0.035013058	0.006187605	<i>COG3</i>
chr13	112627458	112627641	3	0.030717904	0.080638075	0.034899903	NA
chr2	11101549	11102598	6	0.030747967	-0.045235488	-0.020633385	NA
chr12	123756720	123756791	4	0.0308123	0.010183554	0.002534152	<i>CDK2AP1</i>
chr5	19988501	19988944	11	0.030843842	0.046654817	0.004827582	<i>CDH18</i>
chr15	27109950	27110089	3	0.030858243	0.010608039	0.006067718	<i>GABRA5;GABRB3</i>
chr6	114177341	114178220	4	0.030939783	0.009897668	0.001963638	<i>MARCKS</i>
chr5	172185151	172185217	3	0.030981986	-0.034074553	-0.020697977	NA
chr10	4193830	4194452	6	0.03099637	-0.025261539	-0.009166583	NA
chr8	117768886	117769417	3	0.031034208	-0.047946275	-0.021239177	<i>EIF3H</i>
chr3	16524387	16524574	4	0.031173299	0.027019691	0.018551076	<i>RFTN1</i>
chr17	56744069	56744413	5	0.031206347	-0.050082492	-0.022719932	<i>TEX14</i>
chr7	157932715	157932971	4	0.031289132	-0.07007438	-0.032669172	<i>PTPRN2</i>
chr14	51940694	51940935	3	0.031290197	-0.05607325	-0.031752352	<i>FRMD6-AS2</i>
chr2	148602793	148602993	3	0.031303238	-0.013173545	-0.001966569	<i>ACVR2A</i>
chr3	54154438	54154926	5	0.031363269	-0.030798144	-0.020729189	<i>CACNA2D3</i>
chr12	54346784	54347286	5	0.031363269	0.043958534	0.021365457	<i>HOXC12</i>
chr2	119916431	119916807	7	0.031382396	0.033143823	0.002272945	<i>C1QL2</i>
chr7	6413861	6414209	7	0.031412714	-0.023075961	-0.003675847	<i>RAC1</i>
chr6	134272191	134272463	3	0.031421582	0.034551034	-0.004214901	<i>TBPL1</i>
chr22	42378942	42379527	3	0.031435867	0.03418586	0.025663254	<i>SEPTIN3</i>
chr13	27316791	27317381	3	0.03153374	-0.081423203	-0.052120528	NA
chr22	31500397	31500940	3	0.03153374	-0.034030727	-0.026371139	<i>INPP5J;SELENOM;SMTN</i>
chr1	47081524	47082039	3	0.031651632	0.034959822	0.022938741	<i>MKNK1;MOB3C</i>
chr17	75494607	75494669	4	0.031739758	-0.029850326	-0.007365919	<i>SEPTIN9</i>
chr10	124913209	124913724	8	0.031757103	0.024908509	0.004126251	<i>BUB3</i>
chr5	10306947	10307744	5	0.031758248	-0.014938632	-0.000177154	<i>CMBL</i>
chr1	155107462	155108011	8	0.031829614	-0.037282777	-0.006854194	<i>SLC50A1</i>
chr11	31848828	31849262	6	0.031880329	0.020477892	0.009729607	<i>PAX6-AS1;RCNI</i>
chr1	201508712	201509415	6	0.031912674	0.025519602	0.006064861	NA

chr10	64578186	64578476	3	0.031915411	-0.036380766	-0.015964249	<i>EGR2</i>
chr7	73731621	73732108	5	0.031915411	-0.024386174	-0.007467202	<i>CLIP2</i>
chr15	66084798	66085298	8	0.031929705	-0.015982077	-0.00255147	<i>DENND4A</i>
chr22	46372501	46372744	5	0.031934739	-0.029992554	-0.008215118	<i>WNT7B</i>
chr4	175132842	175133103	3	0.031954547	0.012651967	0.011331164	<i>NA</i>
chr8	18577100	18577488	3	0.031993981	0.030513771	-0.001734622	<i>PSD3</i>
chr20	50349254	50349428	4	0.032012049	0.030984959	0.016098575	<i>ATP9A</i>
chr14	72053146	72053361	4	0.032048302	0.044717787	0.030619992	<i>SIPAIL1</i>
chr8	27449907	27450279	5	0.03213529	-0.016254534	-0.000966914	<i>NA</i>
chr6	27533825	27534346	4	0.03214867	0.034564978	0.009139847	<i>NA</i>
chr7	106808956	106809324	7	0.032149906	0.007003254	0.001507164	<i>HBP1</i>
chr19	4102976	4103401	5	0.032197917	-0.025092806	-0.014245852	<i>MAP2K2</i>
chr16	75252355	75252973	8	0.032450983	-0.040654233	-0.012427958	<i>CTRB1</i>
chr5	125757888	125758506	3	0.032472475	-0.030663964	-0.022376966	<i>GRAMD2B</i>
chr3	128204813	128205496	7	0.032476857	0.02749941	0.013119154	<i>GATA2</i>
chr6	156718177	156718546	5	0.032708223	0.042763904	0.029497265	<i>NA</i>
chr1	153940985	153941285	3	0.032868271	0.046519325	0.02727012	<i>CREB3L4;SLC39A1</i>
chr17	7487593	7487853	3	0.032987522	-0.045557073	-0.019688357	<i>MPDU1</i>
chr10	134226361	134226547	3	0.033058242	0.035604183	0.021037948	<i>PWWP2B</i>
chr3	36756049	36756085	3	0.033070964	-0.02654684	0.002612309	<i>DCLK3</i>
chr19	59069988	59070754	11	0.033102862	-0.011297057	-0.000920556	<i>CHMP2A;MZFI-AS1;UBE2M</i>
chr20	44098223	44098724	7	0.033123884	-0.032772241	-0.004932198	<i>WFDC2</i>
chr6	30884915	30885205	5	0.033257518	0.02170076	0.00253642	<i>VARS2</i>
chr16	77270057	77270312	3	0.033262521	-0.023119003	-0.006358761	<i>NA</i>
chr10	97453638	97454076	10	0.033321177	-0.018125501	-0.003851481	<i>TCTN3</i>
chr4	84035891	84036081	3	0.033321177	0.012320453	0.009071478	<i>PLAC8</i>
chr13	41556498	41556827	3	0.03333674	0.032608694	0.023678669	<i>ELF1</i>
chr12	54329854	54330354	5	0.033369543	0.042294608	0.015971427	<i>HOXC13;HOXC13-AS</i>
chr6	10425553	10425648	3	0.033466602	0.020562479	0.014320902	<i>NA</i>
chr20	45279985	45280466	9	0.033556618	0.048402106	0.007611352	<i>SLC13A3</i>
chr20	62205530	62205981	8	0.033618675	0.015781389	0.003298557	<i>HELZ2</i>
chr19	31842873	31843396	3	0.03364172	0.023872244	0.014718548	<i>TSHZ3</i>
chr1	107682283	107682504	3	0.033720758	0.017590275	0.014139746	<i>NTNG1</i>
chr8	144328500	144328928	4	0.033854685	-0.014368791	0.001585159	<i>ZFP41</i>
chr3	48263670	48264021	4	0.03385559	-0.015997802	-0.013359976	<i>CAMP</i>
chr13	113121107	113121280	3	0.03385559	-0.017710355	-0.004500661	<i>NA</i>
chr12	12849443	12850082	5	0.033863793	-0.019441492	-0.015697684	<i>GPR19</i>
chr12	104680384	104681435	10	0.03387988	0.013673776	-0.001919241	<i>TXNRD1</i>
chr4	66535655	66535890	5	0.033924739	0.02396325	0.007207766	<i>EPHA5;EPHA5-AS1</i>
chr1	38412519	38412711	4	0.03394875	0.018173837	0.014430627	<i>INPP5B</i>
chr6	17393365	17393825	9	0.034003367	0.048311058	0.013889945	<i>CAP2</i>
chr5	68485177	68485690	8	0.034010711	0.012064064	0.002079929	<i>CENPH</i>
chr3	147131146	147131617	5	0.034137195	0.021251098	0.011123481	<i>ZIC1</i>
chr11	6291447	6291927	5	0.034153507	-0.063907877	-0.042852241	<i>CCKBR</i>
chr11	66488638	66489022	7	0.034191101	-0.022309187	-0.002879784	<i>SPTBN2</i>
chr2	150176791	150177277	4	0.034201271	-0.053523858	-0.033373302	<i>NA</i>
chr5	74162771	74162924	6	0.034243176	-0.025233654	0.000982657	<i>FAM169A</i>
chr11	8710564	8710910	5	0.034303305	-0.010314017	-0.004718268	<i>RPL27A</i>
chr10	50747578	50747793	6	0.034303305	0.007205017	0.003654319	<i>ERCC6</i>

chr13	61989597	61990113	11	0.034310049	-0.027984275	-0.000649389	<i>PCDH20</i>
chr5	174159294	174159705	3	0.034323416	-0.026125551	-0.015464155	NA
chr2	191085958	191086075	3	0.034379517	-0.022786258	-0.01271785	<i>HIBCH</i>
chr1	229568930	229569101	4	0.034379517	0.051386991	0.026510666	<i>ACTA1</i>
chr10	134504552	134504836	3	0.034536011	-0.017735227	-0.001813493	<i>INPP5A</i>
chr15	89630450	89630886	3	0.034576789	-0.01424676	-0.013078736	<i>ABHD2</i>
chr17	17464853	17465476	7	0.034578891	0.031852756	0.021715009	<i>PEMT</i>
chr6	100911526	100912168	8	0.034583305	0.038500069	0.005639505	<i>SIMI</i>
chr8	15096560	15096879	3	0.034601896	-0.036286362	-0.025705126	<i>SGCZ</i>
chr7	128469741	128469891	4	0.03464205	-0.037721931	-0.007140058	<i>FLNC</i>
chr17	72848535	72848918	3	0.03464205	0.021450388	0.011425534	<i>GRIN2C</i>
chr10	81074718	81075165	4	0.0347151	-0.023185771	-0.001592317	<i>ZMIZ1</i>
chr17	41607535	41608535	9	0.034743082	0.023260266	0.013161255	<i>ETV4</i>
chr18	23805713	23806263	6	0.034905313	-0.024379671	-0.002064749	<i>TAF4B</i>
chr4	175443752	175444181	6	0.034935875	0.010933081	0.003583708	<i>HPGD</i>
chr6	41336966	41337238	3	0.034952062	0.011490235	0.009467983	NA
chr19	58095011	58095206	3	0.034952062	0.023301388	0.012349036	<i>ZIK1;ZNF416</i>
chr2	39351157	39351732	6	0.034994475	-0.011012987	0.000214776	<i>SOS1</i>
chr16	30034426	30034487	3	0.035043225	-0.024019425	-0.015312365	<i>BOLA2;C16orf92</i>
chr17	59478953	59479139	3	0.035136788	0.022678949	0.016016157	<i>TBX2</i>
chr6	33216195	33216663	15	0.035152274	0.028303132	0.003196379	<i>HCG25</i>
chr9	95838464	95838971	3	0.035232425	0.018252706	0.001299167	<i>SUSD3</i>
chr8	55370171	55370407	5	0.035250412	-0.025786588	-0.010702467	<i>SOX17</i>
chr5	50674729	50675114	3	0.035259207	0.015133364	0.007705621	<i>ISL1;LOC642366</i>
chr1	8485376	8485666	4	0.035432327	-0.028606052	0.002621052	<i>RERE</i>
chr8	33864284	33864644	3	0.035471558	0.028712045	-0.003196618	NA
chr12	50504698	50505163	3	0.035513388	0.021513171	0.005044514	<i>COX14;GPD1</i>
chr2	85838476	85838835	5	0.035564637	0.037052954	0.009031413	<i>C2orf68;USP39</i>
chr16	27215225	27215372	4	0.035584804	-0.022615705	-0.005821004	<i>KDM8</i>
chr19	375831	376532	7	0.035599845	-0.039760274	-0.008223149	<i>THEG</i>
chr8	82598608	82598903	6	0.035654923	0.021742384	0.006190213	<i>IMPA1</i>
chr12	132841141	132841405	3	0.035676326	-0.044302713	-0.027911904	<i>GALNT9</i>
chr5	122425156	122425425	4	0.035685286	0.017734628	0.004453786	<i>PRDM6</i>
chr13	114890016	114890416	4	0.035696067	0.015163525	0.010864777	<i>RASA3</i>
chr2	242628842	242629078	3	0.035830337	-0.04833677	-0.041877452	<i>DTYMK</i>
chr7	101754758	101755186	4	0.035855196	-0.021352509	0.002257869	<i>CUX1</i>
chr1	3567550	3568004	9	0.035961826	0.022710786	0.010300147	<i>TP73;WRAP73</i>
chr16	48201121	48201296	4	0.035977388	-0.021290263	-0.000616059	<i>ABCC11</i>
chr14	74486312	74486664	4	0.036135089	0.021066516	0.004811677	<i>BBOF1;ENTPD5</i>
chr17	8378756	8379225	5	0.036146011	0.021463545	0.000200315	<i>MYH10</i>
chr16	10775706	10775897	3	0.036168541	0.044175612	0.008725337	<i>TEKT5</i>
chr9	140095212	140095555	7	0.036314395	0.009313549	0.003652914	<i>NDOR1;TPRN</i>
chr1	27560800	27560916	7	0.036330429	0.007459802	0.000853216	<i>WDTC1</i>
chr22	46637754	46638155	3	0.036330429	0.034708457	0.019006338	<i>PPARA</i>
chr21	46340905	46341304	6	0.036392815	0.019941608	0.009447747	<i>ITGB2;ITGB2-AS1</i>
chr18	35065040	35065386	3	0.036392815	0.030441902	0.019086841	<i>CELF4</i>
chr5	150827158	150827728	6	0.036413102	0.007131406	0.000312844	<i>SLC36A1</i>
chr2	183943319	183943938	9	0.036570281	0.021589578	0.010944602	<i>DUSP19</i>
chr4	147034625	147034848	3	0.036722731	-0.023669822	-0.01470599	<i>LINC01095</i>

chr7	123198173	123198553	7	0.036726581	0.043604769	0.012668596	<i>NDUFA5</i>
chr12	48722474	48722754	4	0.036768419	0.021582024	0.008471835	<i>HI-7</i>
chr1	228346181	228346347	3	0.036810837	-0.026999911	-0.00818036	<i>GJC2</i>
chr9	18472617	18473018	4	0.036834193	-0.04134545	-0.014884036	<i>ADAMTSL1</i>
chr1	99470550	99470801	5	0.036860459	0.017486104	0.007574696	<i>LOC100129620;PLPPR5</i>
chr6	33288180	33288599	8	0.036905033	-0.023148767	-0.006443934	<i>DAXX;ZBTB22</i>
chr20	33734751	33735232	9	0.036982035	0.008959429	0.002876244	<i>EDEM2</i>
chr4	185329653	185329758	3	0.036984354	-0.014718264	-0.008696671	<i>IRF2</i>
chr3	160475035	160475336	5	0.037038036	-0.035518574	-0.017487363	<i>PPM1L</i>
chr10	6962119	6962454	6	0.037084948	0.028521908	0.008902593	<i>NA</i>
chr12	56551917	56552132	8	0.037117736	-0.011771426	0.002761995	<i>MYL6</i>
chr17	48912591	48912952	5	0.037149923	-0.041666324	-0.014926964	<i>WFIKN2</i>
chr1	157811303	157811905	5	0.037149923	-0.018418552	-0.012614678	<i>CDSL</i>
chr8	135725535	135725874	3	0.037152474	-0.003624629	0.000736032	<i>ZFAT</i>
chr3	69134395	69134502	3	0.037198404	0.005491167	0.002751335	<i>ARL6IP5;UBA3</i>
chr3	129261686	129262055	5	0.037217159	-0.020378118	-0.009759591	<i>HI-8</i>
chr3	180042484	180042726	3	0.037234371	-0.03229245	-0.019600869	<i>NA</i>
chr9	38392470	38393112	7	0.037234371	0.013570941	0.003973544	<i>ALDH1B1</i>
chr5	7816713	7817324	3	0.037268868	0.022209047	0.005657694	<i>ADCY2</i>
chr14	70833186	70833404	3	0.037283695	0.031113185	-0.003227934	<i>SYNJ2BP;SYNJ2BP-COX16</i>
chr19	50379397	50379958	8	0.037283695	0.009941519	0.001550408	<i>AKT1S1;TBC1D17</i>
chr21	47456404	47456916	5	0.037366146	-0.026756968	-0.007221897	<i>NA</i>
chr10	13769634	13770043	4	0.037488219	-0.022593042	-0.010580865	<i>FRMD4A</i>
chr11	76368494	76368694	3	0.037488219	0.111725438	0.081328998	<i>LRRC32</i>
chr22	40573054	40573204	3	0.037505203	-0.028068345	-0.015338885	<i>TNRC6B</i>
chr18	48346448	48346843	9	0.037512369	0.023964124	0.005986008	<i>MRO</i>
chr16	57770483	57770866	3	0.037575782	0.013021776	0.006375881	<i>KATNB1</i>
chr2	71211940	71212157	4	0.037587362	0.035584468	0.024125619	<i>ANKRD53</i>
chr20	31823137	31823545	4	0.037604217	-0.033961804	-0.004530169	<i>BPIFA1</i>
chr1	102462590	102463043	9	0.037609867	0.042261348	0.008682328	<i>OLFM3</i>
chr17	71258589	71259141	6	0.037719518	0.028954331	0.00921535	<i>CPSF4L</i>
chr7	38948782	38949140	4	0.037734909	0.024665446	0.011036741	<i>VPS41</i>
chr22	50524374	50524691	4	0.037802018	0.032003735	0.011411943	<i>MLC1;MOV10L1</i>
chr1	161136002	161136321	9	0.037831207	-0.005304305	0.000102093	<i>PPOX</i>
chr20	22564325	22564947	3	0.037831207	0.015241147	0.005297566	<i>FOXA2</i>
chr16	56672387	56672722	7	0.038179052	0.026269511	0.008969595	<i>MT1A;MT1DP</i>
chr7	1952518	1952807	3	0.038321748	0.048255358	0.0279387	<i>MAD1L1</i>
chr6	37474771	37474946	3	0.038340402	-0.022099494	0.001054151	<i>NA</i>
chr8	37553131	37553339	7	0.038360492	-0.017214013	-0.001893439	<i>ZNF703</i>
chr1	35324574	35324844	5	0.038360492	0.022069672	0.009363129	<i>SMIM12</i>
chr6	34003954	34004360	3	0.038415014	-0.026039277	-0.005693867	<i>GRM4</i>
chr5	178772203	178772390	4	0.038627165	-0.016959241	-0.01035634	<i>ADAMTS2</i>
chr5	95767724	95767946	5	0.03866162	0.02655554	0.011911912	<i>PCSK1</i>
chr11	2321770	2322050	8	0.038687647	0.023356101	0.009058778	<i>C11orf21;TSPAN32</i>
chr11	59522279	59523399	14	0.038737669	0.00985826	0.003039315	<i>STX3</i>
chr14	23352029	23352504	5	0.038760452	-0.046577336	-0.027413854	<i>REM2</i>
chr10	27547436	27547704	4	0.038760452	-0.028615731	-5.10E-05	<i>NA</i>
chr7	157451243	157451363	3	0.038760452	0.03612822	0.020491898	<i>PTPRN2</i>
chr16	72821353	72821665	4	0.038830847	0.023874194	0.005897535	<i>ZFHX3</i>

chr1	201252324	201252974	9	0.038872544	-0.021252763	-0.001327358	<i>PKP1</i>
chr18	60264247	60264554	3	0.038907159	-0.024762794	-0.011050641	<i>NA</i>
chr22	18258244	18258664	3	0.038934777	0.019766614	0.014173041	<i>BID</i>
chr13	40107605	40107878	3	0.039040086	0.022066989	-0.003428105	<i>LHFPL6</i>
chr13	111973089	111973143	3	0.039183406	-0.057218602	-0.0471512	<i>TEX29</i>
chr17	17603531	17603837	4	0.03921204	-0.042215911	-0.022749296	<i>RAI1</i>
chr19	14671371	14671512	3	0.03921204	0.033179643	0.012986166	<i>TECR</i>
chr21	44720919	44721077	3	0.039385668	-0.030218498	-0.021790395	<i>NA</i>
chr1	18700891	18700971	3	0.039481849	0.056399554	0.031365786	<i>IGSF21</i>
chr6	105584551	105584780	5	0.039658571	0.022509711	0.012042588	<i>BVES;BVES-AS1</i>
chr7	99102011	99102090	3	0.039779536	0.025886537	0.0072533	<i>ZKSCAN5;ZNF394</i>
chr9	138966848	138967347	4	0.03992751	-0.028124043	-0.022356401	<i>NACC2</i>
chr6	31554558	31554946	4	0.039977425	0.01569364	0.006283799	<i>LST1;LTB</i>
chr5	149669194	149669368	3	0.040159208	-0.036572524	-0.033694864	<i>CAMK2A</i>
chr3	126423056	126423272	7	0.040203367	-0.009268911	0.000597946	<i>CHCHD6</i>
chr16	69965257	69965788	5	0.040239321	0.027174159	0.008523406	<i>MIR140;WWP2</i>
chr17	80747189	80747240	3	0.040266715	-0.024539285	-0.008443056	<i>TBCD</i>
chr14	70655803	70656116	8	0.040277645	-0.017887987	-0.000437896	<i>SLC8A3</i>
chr17	13210168	13210241	3	0.04044504	-0.05232048	-0.004464018	<i>NA</i>
chr4	863878	864100	3	0.04044504	0.042554465	0.017730088	<i>GAK</i>
chr4	8359269	8359499	3	0.040454203	-0.031119808	-0.029498668	<i>NA</i>
chr1	160854954	160855200	4	0.040840743	0.028496815	0.023308137	<i>ITLN1</i>
chr17	17184440	17184692	7	0.040890687	0.013065481	0.003405474	<i>COPS3</i>
chr2	149895023	149895553	4	0.040947057	0.013803451	-0.000396689	<i>LYPD6B</i>
chr1	159796231	159796434	3	0.040970529	0.016057995	0.010573356	<i>SLAMF8</i>
chr20	60582478	60582830	4	0.041094323	-0.026304412	-0.007722361	<i>TAF4</i>
chr12	132905735	132906010	3	0.041400903	-0.024760322	-0.000349538	<i>GALNT9</i>
chr11	45939458	45939543	3	0.041657131	-0.011591138	-0.000801236	<i>LARGE2;PEX16</i>
chr16	73093296	73093652	4	0.041788727	-0.018758623	0.003826829	<i>ZFH3</i>
chr20	62318426	62318588	5	0.041817162	0.022488356	0.011910319	<i>RTEL1;RTEL1-TNFRSF6B</i>
chr2	12858298	12859103	7	0.04182885	0.023081192	0.000943224	<i>TRIB2</i>
chr19	39440462	39440924	6	0.041879328	0.045486357	0.011436177	<i>FBXO17;SARS2</i>
chr9	6565526	6565777	3	0.041919731	-0.020873956	0.006416565	<i>GLDC</i>
chr19	39369277	39369353	3	0.041969591	0.019796273	0.014687098	<i>RINL;SIRT2</i>
chr6	17281483	17281626	5	0.042073599	0.018564994	0.007074832	<i>RBM24</i>
chr8	142427930	142428240	3	0.042155774	-0.01264932	-0.006552417	<i>PTP4A3</i>
chr2	233246136	233246568	3	0.042238149	-0.06955283	-0.044345428	<i>ALPP</i>
chr6	33130918	33131336	5	0.042296519	-0.019515682	-0.004780677	<i>COL11A2</i>
chr5	10413341	10413382	3	0.042361363	0.02693549	0.01401922	<i>MARCHF6</i>
chr14	94595914	94596337	9	0.042388697	0.007546754	0.003754979	<i>IFI27L2</i>
chr8	125985352	125985468	3	0.0424692	0.015225543	0.006797513	<i>ZNF572</i>
chr17	46816036	46816347	3	0.042473292	0.018555749	0.015954742	<i>NA</i>
chr1	61542546	61542979	11	0.042509787	0.029796029	0.00293844	<i>NFIA</i>
chr10	37940493	37940899	3	0.042725259	-0.052806269	-0.047970414	<i>NA</i>
chr12	51566569	51566914	7	0.043219104	-0.022011053	-0.002870736	<i>TFCP2</i>
chr4	111480175	111480200	3	0.043254351	-0.014982227	-0.005722105	<i>ENPEP</i>
chr1	1296956	1297240	5	0.043321194	0.045920491	0.030291177	<i>MXRA8</i>
chr20	23113228	23113340	3	0.043520932	0.033740281	0.022326245	<i>LINC00656</i>
chr14	34077052	34077154	3	0.043566592	-0.03961816	-0.021001846	<i>NPAS3</i>

chr17	18854560	18854799	5	0.043630302	-0.017232879	-0.001709554	<i>SLC5A10</i>
chr1	179335022	179335216	4	0.043642125	-0.008278479	0.001321418	<i>AXDND1</i>
chr9	139247370	139247436	3	0.043676695	-0.03712294	-0.019264869	<i>GP5M1</i>
chr1	151763981	151764147	3	0.043901881	-0.031324845	-0.022644543	<i>TDRKH</i>
chr2	97427027	97427102	3	0.044186986	-0.011029679	-0.008175425	<i>CNNM4</i>
chr12	89413599	89413666	3	0.044280541	0.061629098	0.030846927	<i>LINC02458</i>
chr2	1859035	1859146	3	0.04437071	-0.039501635	-0.031838752	<i>MYT1L</i>
chr1	76080684	76081039	4	0.04444906	-0.024085177	-0.003971611	<i>SLC44A5</i>
chr1	2082315	2082848	5	0.044459845	0.018822929	0.003507067	<i>PRKCZ</i>
chr10	80961305	80961382	4	0.04447365	0.022689399	0.004049222	<i>ZMIZ1</i>
chr12	32111257	32111398	3	0.044511835	-0.047408506	-0.012279591	<i>RESF1</i>
chr10	70847350	70847430	3	0.0445715	0.006415038	0.002624074	<i>SRGN</i>
chr12	120907301	120907610	4	0.04473103	-0.009008605	-0.003018768	<i>DYNLL1;SRSF9</i>
chr20	11873064	11873102	3	0.044855569	0.007854351	-0.000587084	<i>BTBD3</i>
chr8	55243060	55243181	3	0.04489513	-0.028888327	-0.005044687	NA
chr12	109569059	109569180	5	0.044897988	0.039552511	0.022180523	<i>ACACB</i>
chr10	11934150	11934469	5	0.044940881	0.032414207	0.011016736	<i>PROSER2-AS1</i>
chr6	887704	887821	3	0.045098182	-0.06840693	-0.044008675	NA
chr7	27225058	27225342	10	0.045166551	-0.010173318	-0.003632867	<i>HOXA11;HOXA11-AS</i>
chr3	47517621	47517819	4	0.045166838	-0.027828351	-0.014987758	<i>SCAP</i>
chr17	33913801	33913985	4	0.045166838	0.051161095	0.016597199	<i>AP2B1</i>
chr8	56056357	56056609	3	0.045314378	0.029161224	0.027256249	<i>XKR4</i>
chr11	10750870	10750973	3	0.045330043	-0.039634431	-0.019675708	NA
chr12	10955358	10955577	4	0.045510057	0.042043913	0.003379491	<i>TAS2R7</i>
chr13	112553087	112553309	3	0.045746781	-0.027971709	-0.007736589	NA
chr6	139116947	139117182	4	0.045781249	-0.035292968	-0.022556062	<i>ECT2L</i>
chr15	63334937	63335016	3	0.045844556	-0.009658461	-0.005192043	<i>TPM1</i>
chr2	198268382	198268478	3	0.045958727	-0.038822601	-0.028769419	<i>SF3B1</i>
chr11	18610297	18610557	8	0.045958727	-0.019424327	-0.00285955	<i>UEVLD</i>
chr4	57688173	57688337	4	0.046005233	0.020310929	0.007998607	<i>SPINK2</i>
chr9	99540614	99540647	3	0.046284601	0.03108417	0.018053428	<i>ZNF510</i>
chr6	30419051	30419135	5	0.046331026	-0.02571422	-0.001561038	NA
chr16	2031324	2031785	3	0.046416314	-0.029132505	-0.008667477	<i>GFER;NOXO1</i>
chr10	23216299	23216695	3	0.046416314	-0.016022731	0.000940879	<i>ARMC3</i>
chr8	67405257	67405484	4	0.04648175	0.035524511	0.002932097	<i>VXN</i>
chr6	31940467	31940692	8	0.046595211	0.024735602	0.004789512	<i>DXO;STK19</i>
chr1	185014181	185014395	7	0.046733784	0.016314977	-0.002060273	<i>RNF2</i>
chr7	910388	910479	3	0.047008079	0.011671693	0.009722705	<i>GET4;SUN1</i>
chr3	197676952	197677174	6	0.047048145	0.032822823	0.01670325	<i>IQCG;RPL35A</i>
chr10	111682808	111682948	4	0.047055301	-0.006879082	0.00102742	<i>XPNPEP1</i>
chr17	79895300	79895532	9	0.047065369	0.013353905	0.00279911	<i>PYCR1</i>
chr4	53588360	53588397	3	0.047129054	-0.018759225	-0.00745573	NA
chr11	117134326	117134453	3	0.047196406	-0.038809889	-0.007064357	<i>RNF214</i>
chr5	175793484	175793541	3	0.047196406	0.021335136	-0.003060352	<i>ARL10;KIAA1191</i>
chr2	220119321	220119493	4	0.047611147	-0.009197379	-0.004171225	<i>TUBA4A;TUBA4B</i>
chr6	84419189	84419360	7	0.047681779	0.020764516	0.013098188	<i>SNAP91</i>
chr11	1954966	1955023	3	0.047742101	0.021270573	-0.000505863	<i>TNNT3</i>
chr10	6263432	6263606	3	0.047876055	0.016165533	0.008904962	<i>PFKFB3</i>
chr18	28622912	28623090	6	0.048189261	0.038149175	0.004074731	<i>DSC3</i>

chr10	44071073	44071220	3	0.048399782	-0.030098104	-0.007098963	<i>ZNF239</i>
chr7	151565595	151565731	4	0.048423474	-0.02326405	-0.009956314	<i>PRKAG2</i>
chr14	95047591	95047616	3	0.048510248	0.025942151	0.014066735	<i>SERPINA5</i>
chr15	41624609	41624823	5	0.048690825	0.011575209	0.003602943	<i>NUSAPI;OIP5</i>
chr2	10545728	10545842	3	0.048762059	0.018359589	0.002600169	<i>HPCALI</i>
chr16	56623105	56623215	5	0.048894263	-0.020369158	-0.003100256	<i>MT3</i>
chr11	112096999	112097073	5	0.049287294	0.006195493	0.002279008	<i>PTS</i>

Supplemental Table 11 - Differentially Methylated Regions (DMRs) of the unhealthy living subjects

Chromosome	Start	End	Number CpGs	Min smoothed FDR	Max difference	Mean difference	UCSC RefGene name
chr19	55972504	55973879	14	2.87E-10	0.070785226	0.033558233	<i>ISOC2</i>
chr3	195538675	195539463	13	1.10E-09	0.056128467	0.018726509	<i>MUC4</i>
chr6	33047944	33049360	18	1.16E-06	0.072196942	0.045654839	<i>HLA-DPA1;HLA-DPB1</i>
chr11	287938	290447	11	2.55E-06	0.147092657	0.009104691	<i>PGGHG</i>
chr18	23713407	23714084	12	9.91E-06	-0.061564222	-0.02995451	<i>PSMA8</i>
chr19	51017311	51018414	9	1.01E-05	0.047387994	0.028508778	<i>ASPDH;JOSD2</i>
chr20	13975439	13976782	16	1.51E-05	0.071706685	0.022461694	<i>MACROD2;SELIL2</i>
chr8	49825415	49826049	3	2.77E-05	-0.046066582	-0.033946588	NA
chr17	37893638	37894413	10	3.94E-05	0.05012333	0.01612182	<i>GRB7</i>
chr7	39170497	39171113	6	5.87E-05	0.088542102	0.07574728	<i>POU6F2</i>
chr19	44083688	44084933	7	0.000164183	-0.035675122	-0.016062865	<i>PINLYP;XRCC1</i>
chr2	157183755	157184978	10	0.000208432	0.034798967	0.021531783	<i>NR4A2</i>
chr1	175162044	175163165	14	0.000334664	0.047428479	0.015933478	<i>KIAA0040</i>
chr2	97536097	97536620	4	0.000370904	-0.015103046	-0.00294426	<i>SEMA4C</i>
chr10	81964234	81964782	6	0.000385096	0.028486452	0.015714829	<i>ANXA11;LINC00857</i>
chr10	816636	817083	3	0.000548282	0.040113087	0.03263143	NA
chr19	55660514	55661387	9	0.00111322	-0.066084531	-0.03607225	<i>TNNT1</i>
chr4	74847100	74848392	9	0.001216075	-0.084619386	-0.041157753	<i>PF4</i>
chr5	148928885	148929352	4	0.00128476	-0.04970126	-0.028365955	<i>CSNK1A1</i>
chr1	152161237	152162025	7	0.001516235	0.109763198	0.063258436	NA
chr3	57112957	57113767	8	0.001516235	-0.027971517	-0.012507132	<i>ARHGEF3</i>
chr6	100915395	100915805	3	0.002225024	0.026908364	0.021342066	<i>SIMI</i>
chr17	42733368	42733994	11	0.002225024	-0.036122312	-0.014453254	<i>MEIOC</i>
chr2	9613721	9614225	6	0.002225024	-0.039489736	-0.028153718	<i>IAH1</i>
chr13	27999177	27999546	4	0.002225024	-0.056829261	-0.044608354	<i>GTF3A</i>
chr10	133796164	133796559	6	0.002479151	-0.038966559	-0.018949861	<i>BNIP3</i>
chr19	17905332	17905966	8	0.002490081	0.098576262	0.034064315	<i>B3GNT3</i>
chr14	34420102	34421172	14	0.002621856	0.036159802	0.004122311	<i>EGLN3</i>
chr5	172710181	172710766	4	0.00285111	0.055943695	0.028399881	NA
chr20	36148375	36149455	33	0.002975425	0.038587855	0.02264364	<i>BLCAP;NNAT</i>
chr17	7253189	7253720	8	0.004836382	0.053859024	0.033659823	<i>ACAPI;KCTD11;TMEM95</i>
chr2	20870812	20871401	6	0.005134558	0.098580662	0.077144573	<i>GDF7</i>
chr22	51016386	51016703	7	0.005217864	-0.064737215	-0.040599729	<i>CHKB-CPT1B;CHKB-DT;CPT1B</i>
chr15	42566151	42566390	9	0.005570324	-0.04710759	-0.011768291	<i>GANC;TMEM87A</i>
chr10	104613613	104614136	9	0.00677745	-0.050440385	-0.016587167	<i>BORCS7;BORCS7-ASMT</i>

chr15	49716247	49716645	3	0.007232806	0.061602889	0.048002674	<i>FAM227B;FGF7</i>
chr11	69001490	69001551	3	0.008479918	0.038011612	0.025970061	NA
chr16	85699435	85699754	3	0.008599968	0.01981288	0.01377646	<i>GSE1</i>
chr6	38682982	38683221	5	0.009159337	0.051039721	0.02107384	<i>DNAH8</i>
chr16	85813931	85814166	3	0.009159337	0.038375739	0.017853698	<i>EMC8</i>
chr6	6007259	6007523	4	0.009159337	-0.025391706	-0.001366854	<i>NRN1</i>
chr16	3114847	3115286	6	0.009563444	-0.033192361	-0.020138715	<i>IL32</i>
chr3	48694246	48695065	6	0.010108117	-0.065221325	-0.036217824	<i>CELSR3</i>
chr19	59084588	59085030	9	0.011066527	0.021712096	-0.000633246	<i>CENPBD1P1;MZF1;MZF1-AS1</i>
chr6	31683051	31683352	6	0.011270643	0.035220869	0.023491502	<i>ABHD16A;LY6G6D;LY6G6E;LY6G6F</i>
chr7	5646827	5647332	4	0.012006205	0.027548471	0.014094085	NA
chr15	69744390	69744850	6	0.012076657	-0.057497918	-0.038431003	<i>RPLP1</i>
chr19	55549414	55549907	9	0.012076657	-0.066246498	-0.03962099	<i>GP6;RDH13</i>
chr20	49609650	49609852	3	0.012143799	-0.065363796	-0.03890605	NA
chr7	4746131	4746462	3	0.01292798	0.048130549	0.026962852	<i>FO XK1</i>
chr5	1849983	1850261	3	0.014001454	0.082060281	0.057560399	NA
chr20	39995539	39995782	7	0.014001454	0.019203519	0.00214305	<i>EMILIN3</i>
chr22	22090796	22090816	3	0.014001454	-0.048570568	-0.044953063	<i>YPEL1</i>
chr5	176754987	176755542	5	0.016117543	-0.048916036	-0.034284864	NA
chr21	43655256	43655919	3	0.016141899	0.029192007	0.023415273	<i>ABCG1</i>
chr14	32029920	32030686	11	0.018788863	-0.032984941	-0.003535851	<i>NUBPL</i>
chr11	31825756	31826272	5	0.018788863	-0.051037036	-0.018543277	<i>PAX6</i>
chr9	34370781	34371380	5	0.018925854	0.072310563	0.039149332	<i>MYORG</i>
chr1	160254873	160255036	4	0.020523063	-0.015646648	-0.008981092	<i>DCAF8;PEX19</i>
chr10	29697905	29698462	8	0.021618425	-0.042020791	-0.019079925	<i>PTCHD3P1</i>
chr7	27204005	27204349	4	0.022844831	0.026624772	0.011267243	<i>HOXA10-AS;HOXA10-HOXA9;HOXA9</i>
chr1	230404249	230404313	3	0.023356295	0.023797847	0.007858082	<i>GALNT2</i>
chr1	159869902	159870326	8	0.024154007	0.041232843	0.026256937	<i>CFAP45</i>
chr8	109094793	109095264	3	0.024201371	0.018786655	0.008494278	<i>RSPO2</i>
chr5	137224904	137225509	8	0.024880325	-0.029378903	-0.018093596	<i>PKD2L2</i>
chr1	154475068	154475173	3	0.025495774	0.033931174	0.016525354	<i>SHE;TDRD10</i>
chr6	31734106	31734580	9	0.027889161	0.056075982	0.031970956	<i>VWA7</i>
chr17	72948349	72948705	3	0.028326213	0.054681263	0.042170405	<i>HID1</i>
chr5	133702676	133702899	7	0.029310762	-0.029101329	0.001947841	<i>CDKL3;UBE2B</i>
chr3	195578011	195578280	5	0.029657503	0.058899581	0.023622064	NA
chr15	45028083	45028595	5	0.029802042	0.041972964	0.024322363	<i>TRIM69</i>
chr12	4380586	4381019	6	0.031264055	0.041843822	-0.003207697	<i>CCND2</i>
chr19	55314542	55314972	5	0.033793329	-0.045333659	-0.017791801	<i>KIR2DL4;KIR2DS4;KIR3DL1</i>

chr20	388519	388903	10	0.034081645	-0.055622439	-0.013765744	<i>RBCK1</i>
chr21	34185960	34186122	4	0.037943435	0.028312462	0.016198014	<i>C21orf62</i>
chr16	68003120	68003289	3	0.037943435	-0.007586598	-0.003268796	<i>SLC12A4</i>
chr18	60052048	60052464	4	0.038197296	0.044848129	0.039709693	<i>TNFRSF11A</i>
chr9	138628212	138628332	6	0.040127203	-0.021185058	-0.001987984	<i>KCNT1</i>
chr12	110888828	110888956	3	0.040553074	0.033732267	0.025298139	<i>ARPC3</i>
chr11	68607622	68607737	4	0.04102295	-0.013757161	-0.009294782	<i>CPT1A</i>
chr14	75746793	75747047	3	0.043191832	0.045599914	0.035002417	<i>FOS</i>
chr6	30882994	30883074	3	0.043191832	0.048439031	0.033092494	<i>VAR2</i>
chr8	101224915	101225361	7	0.043191832	0.072738476	0.027808064	<i>SPAG1</i>
chr16	20085047	20085214	4	0.043905228	0.035853591	0.020077634	<i>GPRI39</i>
chr3	6902824	6902845	3	0.045287758	0.059436076	0.029474252	<i>GRM7</i>

Supplemental Table 12 - KEGG pathway enrichment analysis of the healthy living subjects

ID	Description	Gene ratio	Bg ratio	P-value	FDR	q-value	Gene ID	Count	Fold enrichment
hsa05032	Morphine addiction	20/564	91/8105	3.09E-06	0.00098	0.000837	PRKACA/GNG4/GNG7/GABRA1/GABRA5/GABRB3/PDE2A/ADCY2/ADCY9/PDE8A/ADCY7/PDE3B/PDE1B/ADORA1/ADCY8/GABRB1/PDE1C/GABRG2/GNAI3/GNAS	20	3.158366456
hsa04727	GABAergic synapse	19/564	89/8105	8.56E-06	0.00135	0.001158	PRKACA/SLC38A1/GNG4/GNG7/GABRA1/GABRA5/GABRB3/SLC6A1/ADCY2/ADCY9/GLUL/ADCY7/ADCY8/GABRB1/GLS2/SLC12A5/GABRG2/GAD1/GNAI3	19	3.067873934
hsa05414	Dilated cardiomyopathy	17/564	96/8105	0.0002926	0.03082	0.026389	ITGA9/CACNA2D4/PRKACA/ATP2A2/ADCY2/ADCY9/LAMA1/SGCA/ADCY7/ITGA2B/DES/CACNA2D3/TPM1/LMNA/ADCY8/SLC8A3/GNAS	17	2.544787973
hsa04261	Adrenergic signaling in cardiomyocytes	22/564	150/8105	0.0006539	0.04361	0.037335	ATP2B2/CACNA2D4/PRKACA/ATP2A2/PIK3CG/PPP2R2A/CAMK2A/CREB5/CREB3L4/ADCY2/ADCY9/ADCY7/CACNA2D3/TPM1/ADCY8/SCN1B/CAMK2B/SLC8A3/PPP2R2B/PPP2R5B/GNAI3/GNAS	22	2.107683215
hsa00410	beta-Alanine metabolism	8/564	30/8105	0.0007774	0.04361	0.037335	HIBCH/ALDH3A1/ALDH1B1/ALDH3A2/EHHADH/GADL1/GAD1/ALDH7A1	8	3.8321513
hsa04724	Glutamatergic synapse	18/564	114/8105	0.0008281	0.04361	0.037335	GRIK3/PRKACA/SLC38A1/GNG4/GNG7/SLC1A7/GRIN2C/ADCY2/ADCY9/GLUL/GRM4/ADCY7/GRIA2/SLC1A1/ADCY8/GLS2/GNAI3/GNAS	18	2.269036954
hsa04713	Circadian entrainment	16/564	97/8105	0.0009817	0.04432	0.037941	PRKACA/GNG4/GNG7/CACNA1H/GRIN2C/CAMK2A/ADCY2/ADCY9/ADCY7/NOS1AP/GRIA2/ADCY8/CAMK2B/RYR1/GNAI3/GNAS	16	2.370402866
hsa04020	Calcium signaling pathway	30/564	240/8105	0.0011929	0.04712	0.040338	PDGFRA/ATP2B2/PRKACA/ATP2A2/PLCD1/CACNA1H/GDNF/FGFR2/GRIN2C/CAMK2A/F2R/HGF/ADCY2/CACNA1E/ADCY9/ADCY7/P2RX1/MYLK/LTB4R2/CCKBR/PDE1B/NTRK2/HTR6/ADCY8/PDE1C/CAMK2B/SLC8A3/RYR1/SLC25A31/GNAS	30	1.796320922

Supplemental Table 13 - Expression Quantitative Trait Methylation Analysis (cis-eQTM)

	DMP ID	Probe ID	t-value	P-value	FDR	Beta	DMP chromosom	DMP_position	DMP_strand	DMP UCSC RefGene name	Probe annotation	Probe chromosom	Probe start	Probe end
Total discovery set (N=48)	cg23432008	ILMN_1763837	4.011366462	0.000219916	0.016053858	3.045970198	chr15	90346094	-	ANPEP	ANPEP	chr15	90328125	90358083
	cg02008229	ILMN_1763837	3.538783851	0.000931759	0.034009196	2.298813443	chr15	90346089	-	ANPEP	ANPEP	chr15	90328125	90358083
	cg15677293	ILMN_1761820	-2.723482443	0.009098786	0.166052839	-1.32954999	chr1	236559595	-	EDARADD	EDARADD	chr1	236557679	236648007
	cg06344992	ILMN_1763837	2.781392138	0.007820373	0.166052839	1.618370612	chr15	90345999	-	ANPEP	ANPEP	chr15	90328125	90358083
	cg05500574	ILMN_1700766	2.539852299	0.014532508	0.212174618	2.862360519	chr19	58962884	+	ZNF324B	ZNF324B	chr19	58962970	58969199
	cg05529343	ILMN_1710268	-2.46303655	0.017579474	0.213883595	-0.411070474	chr3	22412124	+	NA	ZNF385D	chr3	21459910	22414131
	cg09981964	ILMN_1690223	2.141502188	0.037563297	0.3865465	1.958751849	chr7	148001779	-	CNTNAP2;MIR548T	CNTNAP2	chr7	145813298	148118089
	cg13976502	ILMN_2412922	2.088016709	0.04236126	0.3865465	0.968230859	chr14	742227875	+	C14orf43	ELMSAN1	chr14	74181824	74256987
Healthy subgroup (N=25)	cg09981964	ILMN_1690223	2.619851078	0.01531306	0.489471819	3.145442891	chr7	148001779	-	CNTNAP2;MIR548T	CNTNAP2	chr7	145813298	148118089
	cg19757435	ILMN_1778121	-2.497260403	0.02011528	0.489471819	-2.258203853	chr7	71868412	+	CALN1	CALN1	chr7	71244475	71969255
	cg23771366	ILMN_1797776	-2.638485037	0.014684931	0.489471819	-4.058361065	chr11	86510998	-	PRSS23	PRSS23	chr11	86502100	86663951
	cg03636183	ILMN_2127298	2.177470156	0.039957348	0.729221606	0.883490511	chr19	17000585	-	F2RL3	F2RL3	chr19	16999670	17003410
Unhealthy subgroup (N=23)	cg16436566	ILMN_1655046	2.633294959	0.015538127	0.338539797	3.624340089	chr16	67879671	+	CENPF;NUTF2	NUTF2	chr16	67880634	67906469
	cg05500574	ILMN_1700766	2.240017298	0.03603567	0.338539797	3.746437312	chr19	58962884	+	ZNF324B	ZNF324B	chr19	58962970	58969199
	cg07421287	ILMN_1702604	-2.58906758	0.017120763	0.338539797	-0.555528047	chr1	111218287	+	KCNA3	KCNA3	chr1	111196181	111217654
	cg05529343	ILMN_1710268	-2.225951704	0.037100252	0.338539797	-0.702050446	chr3	22412124	+	NA	ZNF385D	chr3	21459910	22414131
	cg00310412	ILMN_1756312	-2.253220952	0.035061806	0.338539797	-1.068893382	chr15	74724918	-	SEMA7A	SEMA7A	chr15	74701624	74726299
	cg15677293	ILMN_1761820	-2.288662004	0.032565701	0.338539797	-2.16095061	chr1	236559595	-	EDARADD	EDARADD	chr1	236557679	236648007
	cg25817435	ILMN_1765696	2.307248943	0.031322836	0.338539797	1.353367121	chr2	223435533	+	NA	FARSB	chr2	223436161	223521073
	cg00443596	ILMN_2087629	-2.531491732	0.019408678	0.338539797	-2.122845202	chr18	31802530	-	NOLA	NOLA	chr18	31431063	31804920