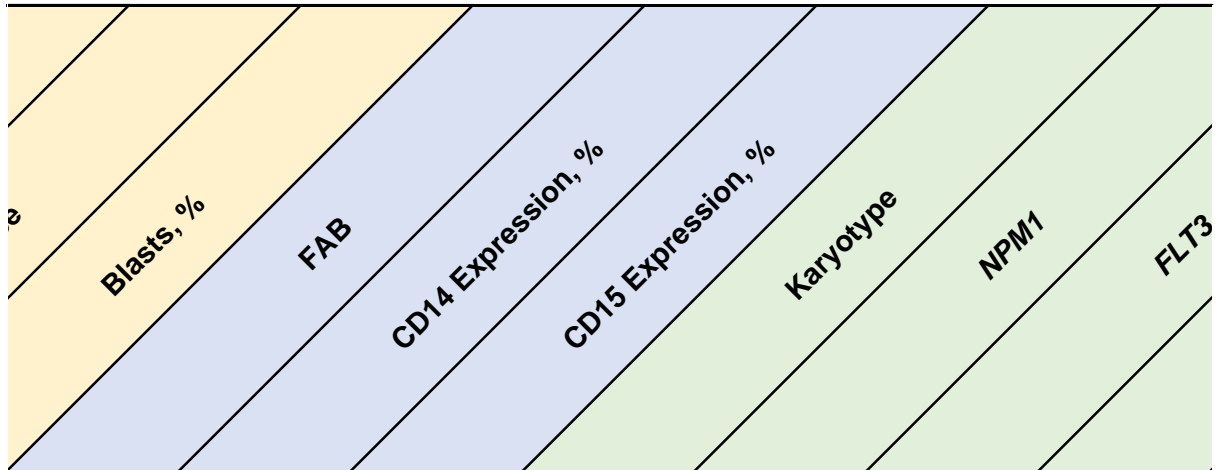


**Supplementary Table 1. Patients samples and metadata**

	Sex	Age, years	Stage	WBC, x10 <sup>9</sup> /L	Source	
UPN	Clinical					
SLS009	F	69	Diagnosis	1.5	BM	89
SLS014	F	56	Diagnosis	2.73	BM	60
SLS019	F	62	Diagnosis	35.9	BM	92
SLS020	F	28	Diagnosis	3.28	BM	63
SLS025	F	34	Diagnosis	4.2	BM	62
SLS032	M	70	Diagnosis	13.61	BM	68
SLS033	M	64	Diagnosis	68.01	BM	90
SLS036	M	29	Diagnosis	35.06	BM	46
SLS037	M	51	Relapse	0.31	BM	10
SLS041	F	59	Diagnosis	39	BM	93
SLS043	M	29	Diagnosis	39.8	BM	90
SLS048	F	46	Diagnosis	5.35	BM	41
SLS050	F	50	Diagnosis	142.6	BM	90
SLS058	F	75	Diagnosis	22	BM	65
SLS068	M	71	Diagnosis	96.73	BM	45
SLS070	M	35	Diagnosis	28.74	BM	73
SLS083	F	22	Diagnosis	20.47	BM	64
SLS085	F	60	Diagnosis	37	BM	90
SLS094	M	52	Relapse	1.2	BM	33
SLS095	F	46	Diagnosis	1.19	BM	7
SLS100	F	65	Diagnosis	107.4	PB	99
SLS107	M	22	Diagnosis	6.29	PB	63
SLS110	M	48	Diagnosis	16.39	BM	82
SLS134	M	60	Diagnosis	39.7	BM	67
SLS149	F	27	Diagnosis	21	BM	56
SLS150	F	76	Diagnosis	19.8	PB	19
SLS158	M	59	Diagnosis	4.1	BM	27
SLS174	F	52	Diagnosis	6.7	BM	74
SLS199	F	70	Diagnosis	97	PB	48
SLS244	M	50	Diagnosis	99.72	BM	80
SLS301	F	57	Relapse	4.41	PB	71
SLS302	F	59	Diagnosis	104.98	PB	79
SLS305	F	78	Relapse	11.29	PB	25
SLS306	F	47	Diagnosis	21.1	BM	73
SLS306R	F	47	Relapse	1.99	PB	64

SLS325	F	61	Diagnosis	78.7	BM	45
SLS327	M	64	Diagnosis	254.62	BM	92
SLS343	M	63	Diagnosis	88	PB	87
SLS345	F	25	Diagnosis	28.42	PB	59
SLS346	M	58	Diagnosis	81.26	BM	89
SLS351	F	16	Diagnosis	14.5	BM	60
SLS352	M	71	Diagnosis	4.2	BM	82
SLS353	F	78	Diagnosis	34	PB	69
SLS354	F	75	Diagnosis	117	PB	95
SLS355	M	70	Diagnosis	105.3	BM	26
SLS356	M	34	Diagnosis	125.7	BM	87
SLS357	M	56	Diagnosis	8.1	PB	47
SLS358	M	58	Diagnosis	88	BM	94
SLS359	M	41	Diagnosis	4.7	PB	20
SLS360	F	69	Diagnosis	39.7	PB	91
SLS361	M	55	Diagnosis	68.4	PB	82
SLS362	F	76	Diagnosis	69.7	PB	61
SLS363	M	72	Diagnosis	49	BM	77
SLS365	M	45	Diagnosis	53.4	BM	64
SLS366	F	20	Diagnosis	14.7	PB	58
SLS367	M	43	Diagnosis	59	BM	60
SLS370	M	51	Diagnosis	78	BM	81
SLS371	F	65	Diagnosis	23.5	PB	78
SLS372	M	73	Diagnosis	134	BM	48
SLS373	M	46	Diagnosis	19.8	BM	40
SLS374	M	60	Diagnosis	0.7	BM	20
SLS376	F	62	Diagnosis	136	PB	94
SLS378	M	68	Diagnosis	108	BM	94
SLS379	F	18	Diagnosis	37.7	BM	80
SLS380	F	37	Diagnosis	5.8	BM	48
SLS381	F	71	Diagnosis	49.01	BM	90
SLS382	F	78	Diagnosis	1.7	PB	43
SLS384	F	68	Diagnosis	64.7	BM	40
SLS388	F	69	Diagnosis	146	BM	97
SLS389	M	48	Diagnosis	27.6	BM	75
SLS390	F	64	Diagnosis	293	BM	81
SLS391	M	73	Diagnosis	143	PB	97
SLS392	M	54	Diagnosis	2.3	PB	28
SLS393	F	76	Diagnosis	120	BM	80



Differentiation Arrest			Genetic			
M1	0	37	46,XX	MUT	WT	NA
M2	0	13	46,XX,add(11)del(11)	WT	WT	
M1	0	11	46,XX	MUT	ITD	1
M2	0	26	46,XX,t(21)(q22;q22)	WT	WT	
M2	0	6	46,XX,t(6;9)(p22;p11)	WT	ITD	0.82
M0	0	1	46,XX,del(13)(q13)	WT	WT	
M5	20	43	46,XX,t(2;4)(q27;q27)	WT	ITD	0.3
M4Eo	3	8	46,XX,inv(16)(p13q22)	WT	WT	
NA	1	82	46,XY	WT	WT	
M5	5	87	46,XX	MUT	ITD	0.5
M1	0	11	46,XY	MUT	ITD & TKD	0.66
M4Eo	4	29	46,XX,inv(16)(p13q22)	WT	WT	
M1	0	60	46,XX	MUT	ITD	0.65
M2	0	8	46,XX,+4	MUT	WT	NA
M4	1	8	46,XY	WT	ITD	0.48
M4Eo	0	54	46,XY,inv(16)(p13q22)	WT	WT	
M4Eo	10	41	46,XX,inv(16)(p13q22)	WT	WT	
M5	44	87	46,XX	MUT	WT	NA
NA	2	42	46,XX,-17,+mar	WT	WT	
NA	2	9	NA	WT	WT	
M1	0	1	46,XX	MUT	WT	NA
M5	3	98	46,XX,der(9)t(2;9)(p11;p11)	WT	WT	
M1	0	97	46,XY	WT	WT	
NA	10	0	46,XY	WT	WT	
M4Eo	0	0	46,XX,inv(16)(p13q22)	WT	WT	
M4	0	0	46,XX	MUT	TKD	NA
M2	0	0	46,XY	WT	WT	NA
M1	0	0	46,XX	MUT	ITD	0.1
M1	0	0	46,XX	MUT	ITD	1.5
M5	0	0	46,XY	MUT	WT	
M5	0	0	46,XX,del(15)(q14)	MUT	WT	
M1	0	0	46,XX	MUT	WT	
M5	11	90	47,XX,+4	MUT	WT	
M2	0	0	46,XX	MUT	ITD	0.36
M1	0	0	46,XX,del(5)add(5)(p15)	MUT	ITD	8.7

M2	1	27	46,XX	MUT	WT	NA
M5	0	8	46,XY	MUT	ITD	0.49
M4	0	0	47XY, +8	MUT	ITD	0.58
M4	0	0	46,XX	MUT	ITD & TKD	0.05
M1	0	0	46,XX, del(20)(q11)	WT	ITD	0.19
M2	0	15	46XX, t(5;11)	WT	WT	NA
M4	18	60	46,XY	WT	WT	NA
M1	0	7	46XX, t(6;9)	MUT	WT	NA
M1	0	6	46,XX	MUT	ITD	0.86
M2	0	0	46,XY	WT	WT	NA
M5	0	0	46,XY	WT	ITD	0.6
M2	1	2	46,XY, t(6;21)(q24;q22)	WT	WT	NA
M5	15	53	46,XY, t(10;11); 47X	WT	WT	NA
M4	0	0	46,XY, del(7)(q3?2),-	WT	WT	NA
M1	0	0	46,XX	MUT	ITD	0.4
M2	1	0	46,XY	MUT	ITD	0.68
M4	0	0	46,XX	MUT	WT	NA
M1	1	21	46,XY	MUT	ITD	0.9
M4	0	26	46,XY	MUT	TKD	NA
M2	0	20	46,XX	MUT	WT	NA
M4	3	25	46,XY	MUT	WT	NA
M5	55	86	46XY, isoc 4p	MUT	TKD	NA
M2	0	5	46,XX	MUT	TKD	NA
M4	0	0	46,XY	MUT	WT	NA
M4	10	98	46,XY	MUT	WT	NA
M1	0	0	46XY, +Y	MUT	WT	NA
M1	0	0	46,XX	MUT	ITD	0.9
M1	0	0	46,XY	MUT	ITD	0.26
M5	2	35	46,XX	MUT	TKD	NA
M4	0	35	46,XX	MUT	WT	NA
M1	0	1	46,XX	MUT	WT	
M1	0	0	46,XX	MUT	WT	NA
M4	0	17	46,XX	MUT	WT	NA
M1	0	1	46,XX	MUT	ITD	0.55
M5	42	92	46,XY	MUT	WT	
M5	51	43	46,XX	MUT	WT	NA
M1	0	0	46,XY	MUT	ITD	0.02
M2	0	0	46XY, del17p	MUT	WT	NA
M4	NA	NA	46,XX	MUT	ITD	0.66

FLT3-ITD Allele Ratio	IDH1	IDH2	ELN 2017 Risk Category	EOI Evaluation	NPM1_MRD	EFS_Time /
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			Outcome			
WT	WT	Fav	CR	0.000036	1234	0
WT	WT	Int				
MUT	WT	Int	CR	0.0001	731	1
WT	WT	Fav				
WT	WT	Adv				
WT	WT	Int				
WT	WT	Int				
WT	WT	Fav				
WT	WT	Fav				
WT	WT	Int	CR	NA	546	0
WT	R140Q	Int	CR	0.000001	159	0
WT	WT	Fav				
WT	WT	Int	CR	0.0012	1158	0
WT	WT	Fav	CR	NA	1182	0
WT	WT	Int				
WT	WT	Fav				
WT	WT	Fav				
MUT	WT	Fav	CR	NA	999	1
WT	WT	Adv				
WT	WT	NA				
MUT	WT	Fav	ED	NA	2	1
WT	WT	Int				
WT	WT	Fav				
WT	WT	Fav				
WT	WT	Fav				
WT	WT	Fav	CR	0.000001	835	0
WT	R140Q	Adv	MLFS	NA	49	1
WT	R140Q	Int	PIF	NA	79	1
WT	WT	Int	PIF	NA	47	1
WT	WT	Fav				
WT	WT	Int				
WT	R140Q	Fav				
WT	WT	Fav				
WT	WT	Fav	CR	0.0043	159	1
WT	WT	Int				

WT	WT	Fav	CR	0.000061	290	1
NA	NA	Fav				
WT	WT	Int				
WT	WT	Fav				
WT	WT	Int				
WT	WT	Adv	PIF	NA	70	1
WT	R140Q	Adv	PIF	NA	42	1
WT	WT	Fav	PIF	NA	63	1
MUT	WT	Int	CR	0.000001	469	1
WT	WT	Adv	PIF	NA	52	1
WT	WT	Adv	PIF	NA	37	1
WT	WT	Int	ED	NA	20	1
WT	WT	Adv	ED	NA	20	1
WT	WT	Adv	PIF	NA	44	1
WT	WT	Int	ED	NA	30	1
WT	WT	Int	CR	0.000001	203	0
MUT	WT	Fav	CR	0.00032	852	1
MUT	WT	Int	CR	NA	378	1
MUT	WT	Fav	CR	0.00006	870	1
WT	WT	Fav	CR	0.000001	686	0
WT	WT	Fav	CR	0.0046	171	0
WT	WT	Fav	CR	0.0075	142	0
WT	WT	Fav	CR	NA	335	1
WT	WT	Fav	CR	0.000001	517	1
WT	WT	Fav	CR	0.0016	397	1
WT	WT	Fav	CR	0.0063	1219	0
WT	WT	Adv	CR	NA	632	1
WT	R140Q	Fav	CR	NA	849	1
MUT	WT	Fav	CR	0.07	179	1
WT	WT	Int	CR	0.000001	295	1
NA	NA	Fav				
MUT	WT	Fav	CR	0.000001	588	1
WT	R140Q	Fav	CR	NA	335	1
WT	WT	Int	ED	NA	15	1
NA	NA	Fav				
WT	WT	Fav	ED	NA	22	1
WT	R140Q	Fav	ED	NA	24	1
WT	WT	Int	CR	0.000001	125	0
WT	WT	Int				

(days)	EFS_event	LSC_count_ex_vivo	LTC-IC	drug_response_patterns	plasma_amino_acids	plasma_cytokines	conditioned_medium_ami	nick
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Experiments							
			X	X			
			X	X			
	X		X	X			
	X		X	X			
			X				
			X	X			
			X	X			
			X	X			
			X	X			
					X		
			X		X		
			X	X			
			X	X	X	X	
					X		
			X				
			X	X			
			X	X			
			X	X			
			X	X			
			X	X			
			X	X			
			X	X			
			X	X	X		
		X					
X							
		X					
		X					





amino_acids_cytokines
cell-like_components_mini-screen
DNA-Seq
RNA-Seq
sc-RNA-Seq
DNR-ARAC_Screen

			X
			X
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			X
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			X
		X	

**Supplementary Table 2. Gene m**

<b>UPN</b>	<b>GENE</b>
SLS361	<i>BRCC3</i>
SLS361	<i>NPM1</i>
SLS361	<i>TET2</i>
SLS361	<i>SRSF2</i>
SLS361	<i>PRPF8</i>
SLS380	<i>WT1</i>
SLS380	<i>WT1</i>
SLS380	<i>WT1</i>
SLS380	<i>FLT3</i>
SLS380	<i>NPM1</i>
SLS380	<i>DNMT3A</i>
SLS390	<i>NPM1</i>
SLS390	<i>RAD21</i>
SLS390	<i>DNMT3A</i>
SLS390	<i>CBL</i>
SLS325	<i>TET2</i>
SLS325	<i>SRSF2</i>
SLS325	<i>DNMT3A</i>
SLS325	<i>NRAS</i>
SLS325	<i>NPM1</i>
SLS325	<i>CEBPA</i>
SLS371	<i>SMC1A</i>
SLS371	<i>NPM1</i>
SLS371	<i>FLT3</i>
SLS373	<i>SMC3</i>
SLS373	<i>RIT1</i>
SLS373	<i>NPM1</i>
SLS352	<i>SRSF2</i>
SLS352	<i>IDH2</i>
SLS352	<i>ASXL1</i>
SLS367	<i>NRAS</i>
SLS367	<i>NPM1</i>
SLS370	<i>PTPN11</i>
SLS370	<i>TET2</i>
SLS370	<i>FLT3</i>
SLS370	<i>NPM1</i>
SLS384	<i>CEBPA</i>
SLS384	<i>NPM1</i>
SLS384	<i>IDH2</i>
SLS384	<i>SRSF2</i>
SLS379	<i>SMC3</i>
SLS379	<i>FLT3</i>
SLS379	<i>NPM1</i>
SLS379	<i>IDH1</i>
SLS376	<i>SMC1A</i>
SLS376	<i>TP53</i>
SLS376	<i>KRAS</i>

SLS305	<i>NPM1</i>
SLS009	<i>GATA2</i>
SLS009	<i>TET2</i>
SLS009	<i>TET2</i>
SLS009	<i>NPM1</i>
SLS354	<i>FLT3</i>
SLS354	<i>NPM1</i>
SLS354	<i>NF1</i>
SLS354	<i>DNMT3A</i>
SLS354	<i>IDH1</i>
SLS354	<i>KIT</i>
SLS014	<i>NO_MUTATION</i>
SLS019	<i>FLT3</i>
SLS019	<i>IDH1</i>
SLS019	<i>DNMT3A</i>
SLS019	<i>NPM1</i>
SLS019	<i>FLT3</i>
SLS020	<i>RAD21</i>
SLS020	<i>EZH2</i>
SLS020	<i>EZH2</i>
SLS020	<i>WT1</i>
SLS025	<i>FLT3</i>
SLS366	<i>WT1</i>
SLS366	<i>WT1</i>
SLS366	<i>NRAS</i>
SLS366	<i>NPM1</i>
SLS366	<i>TET2</i>
SLS032	<i>NRAS</i>
SLS032	<i>NRAS</i>
SLS032	<i>SF3B1</i>
SLS032	<i>EP300</i>
SLS032	<i>BCORL1</i>
SLS032	<i>STAG2</i>
SLS033	<i>DNMT3A</i>
SLS033	<i>FLT3</i>
SLS036	<i>NRAS</i>
SLS365	<i>PTPN11</i>
SLS365	<i>FLT3</i>
SLS365	<i>IDH1</i>
SLS365	<i>NPM1</i>
SLS041	<i>NPM1</i>
SLS041	<i>FLT3</i>
SLS041	<i>SF3B1</i>
SLS043	<i>FLT3</i>
SLS043	<i>NPM1</i>
SLS043	<i>IDH2</i>
SLS048	<i>NRAS</i>
SLS048	<i>WT1</i>
SLS050	<i>NPM1</i>
SLS050	<i>DNMT3A</i>

SLS351	<i>RUNX1</i>
SLS351	<i>PTPN11</i>
SLS058	<i>STAG2</i>
SLS058	<i>NPM1</i>
SLS058	<i>FLT3</i>
SLS357	<i>KRAS</i>
SLS357	<i>NRAS</i>
SLS357	<i>PTPN11</i>
SLS357	<i>SMC3</i>
SLS357	<i>PTPN11</i>
SLS357	<i>SF3B1</i>
SLS068	<i>FLT3</i>
SLS068	<i>DNMT3A</i>
SLS068	<i>SRSF2</i>
SLS083	<i>BCORL1</i>
SLS085	<i>FLT3</i>
SLS085	<i>KRAS</i>
SLS085	<i>PTPN11</i>
SLS085	<i>NF1</i>
SLS085	<i>IDH1</i>
SLS085	<i>DNMT3A</i>
SLS085	<i>NPM1</i>
SLS085	<i>RAD21</i>
SLS085	<i>DNMT3A</i>
SLS353	<i>NPM1</i>
SLS353	<i>TET2</i>
SLS353	<i>TET2</i>
SLS353	<i>DNMT3A</i>
SLS388	<i>FLT3</i>
SLS388	<i>NPM1</i>
SLS388	<i>TET2</i>
SLS100	<i>IDH1</i>
SLS100	<i>DNMT3A</i>
SLS100	<i>NPM1</i>
SLS107	<i>NO_MUTATION</i>
SLS374	<i>U2AF1</i>
SLS374	<i>BRAF</i>
SLS374	<i>NPM1</i>
SLS374	<i>STAG2</i>
SLS374	<i>PHF6</i>
SLS110	<i>TET2</i>
SLS110	<i>GATA2</i>
SLS110	<i>CEBPA</i>
SLS110	<i>CEBPA</i>
SLS363	<i>FLT3</i>
SLS363	<i>IDH1</i>
SLS363	<i>NPM1</i>
SLS363	<i>DNMT3A</i>
SLS358	<i>KRAS</i>
SLS358	<i>NRAS</i>

SLS134	<i>CEBPA</i>
SLS134	<i>TET2</i>
SLS134	<i>CEBPA</i>
SLS134	<i>CSF3R</i>
SLS378	<i>FLT3</i>
SLS378	<i>CSF3R</i>
SLS378	<i>SRSF2</i>
SLS378	<i>IDH2</i>
SLS378	<i>NPM1</i>
SLS149	<i>NRAS</i>
SLS149	<i>NRAS</i>
SLS150	<i>WT1</i>
SLS150	<i>FLT3</i>
SLS150	<i>FLT3</i>
SLS150	<i>NPM1</i>
SLS150	<i>DNMT3A</i>
SLS158	<i>DNMT3A</i>
SLS158	<i>IDH2</i>
SLS158	<i>SRSF2</i>
SLS158	<i>ASXL1</i>
SLS174	<i>FLT3</i>
SLS174	<i>NPM1</i>
SLS174	<i>IDH2</i>
SLS362	<i>PTPN11</i>
SLS362	<i>IDH1</i>
SLS362	<i>DNMT3A</i>
SLS362	<i>NPM1</i>
SLS382	<i>IDH1</i>
SLS382	<i>NPM1</i>
SLS392	<i>WT1</i>
SLS392	<i>PTPN11</i>
SLS392	<i>NPM1</i>
SLS392	<i>STAG2</i>
SLS199	<i>PHF6</i>
SLS199	<i>FLT3</i>
SLS199	<i>WT1</i>
SLS199	<i>NPM1</i>
SLS199	<i>FLT3</i>
SLS360	<i>FLT3</i>
SLS360	<i>RAD21</i>
SLS360	<i>EP300</i>
SLS360	<i>NPM1</i>
SLS360	<i>DNMT3A</i>
SLS356	<i>FLT3</i>
SLS356	<i>FLT3</i>
SLS356	<i>DNMT3A</i>
SLS356	<i>BCOR</i>
SLS359	<i>TP53</i>
SLS391	<i>NRAS</i>
SLS391	<i>FLT3</i>

SLS391	<i>FLT3</i>
SLS391	<i>NPM1</i>
SLS391	<i>SRSF2</i>
SLS391	<i>IDH2</i>
SLS355	<i>RUNX1</i>
SLS355	<i>EZH2</i>
SLS355	<i>SF3B1</i>
SLS355	<i>DNMT3A</i>
SLS355	<i>CBL</i>
SLS372	<i>CBL</i>
SLS372	<i>KRAS</i>
SLS372	<i>NPM1</i>
SLS372	<i>ASXL1</i>
SLS372	<i>TET2</i>
SLS372	<i>SRSF2</i>
SLS372	<i>TET2</i>
SLS372	<i>CBL</i>
SLS244	<i>EZH2</i>
SLS244	<i>PTPN11</i>
SLS244	<i>NRAS</i>
SLS244	<i>NPM1</i>
SLS244	<i>DNMT3A</i>
SLS306	<i>FLT3</i>
SLS306	<i>SMC3</i>
SLS306	<i>DNMT3A</i>
SLS306	<i>NPM1</i>
SLS302	<i>NPM1</i>
SLS302	<i>IDH2</i>
SLS306R	<i>FLT3</i>
SLS306R	<i>NPM1</i>
SLS306R	<i>SMC3</i>
SLS306R	<i>DNMT3A</i>
SLS070	<i>NO_MUTATION</i>
SLS037	<i>CEBPA</i>
SLS037	<i>CEBPA</i>
SLS095	<i>NO_MUTATION</i>
SLS094	<i>WT1</i>
SLS094	<i>WT1</i>
SLS094	<i>WT1</i>
SLS094	<i>NRAS</i>
SLS301	<i>RAD21</i>
SLS301	<i>CUX1</i>
SLS301	<i>NRAS</i>
SLS301	<i>DNMT3A</i>
SLS301	<i>KIT</i>
SLS301	<i>GATA2</i>
SLS301	<i>NPM1</i>
SLS343	<i>DNMT3A</i>
SLS343	<i>FLT3</i>
SLS343	<i>NPM1</i>

SLS345	<i>FLT3</i>
SLS345	<i>FLT3</i>
SLS345	<i>WT1</i>
SLS345	<i>FLT3</i>
SLS345	<i>NPM1</i>
SLS393	<i>TET2</i>
SLS393	<i>TET2</i>
SLS393	<i>DNMT3A</i>
SLS393	<i>FLT3</i>
SLS393	<i>NPM1</i>



**Mutations identified by targeted sequencing**

<b>MUTATION</b>
BRCC3:NM_024332:exon1:c.C47T:p.S16F
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
TET2:NM_001127208:exon3:c.C1648T:p.R550X
SRSF2:NM_003016:exon1:c.C284T:p.P95L
PRPF8:NM_006445:exon10:c.T1376C:p.L459P
WT1:NM_024426:exon1:c.C338T:p.A113V
WT1:NM_024426:exon1:c.G337C:p.A113P
WT1:NM_024426:exon1:c.322_334del:p.F108fs
FLT3:NM_004119:exon16:c.G1992T:p.M664I
NPM1:NM_002520:exon11:c.861_862insTGTA:p.L287fs
DNMT3A:NM_175629:exon19:c.C2309T:p.S770L
NPM1:NM_002520:exon11:c.861_862insTGTA:p.L287fs
RAD21:NM_006265:splice
DNMT3A:NM_175629:exon18:c.T2147A:p.V716D
CBL:NM_005188:exon8:c.T1139C:p.L380P
TET2:NM_001127208:exon6:c.A3656G:p.H1219R
SRSF2:NM_003016:exon1:c.C284A:p.P95H
DNMT3A:NM_175629:exon8:c.T887G:p.V296G
NRAS:NM_002524:exon2:c.G35A:p.G12D
NPM1:NM_002520:exon11:c.863_864insCATG:p.L287fs
CEBPA:NM_004364:exon1:c.751dupA:p.S251fs
SMC1A:NM_006306:exon13:c.2082_2117del:p.694_706del
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
FLT3:NM_004119:exon20:c.G2503T:p.D835Y
SMC3:NM_005445:exon15:c.1461_1463del:p.487_488del
RIT1:NM_001256820:exon3:c.G121A:p.A41T
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
SRSF2:NM_003016:exon1:c.C284A:p.P95H
IDH2:NM_002168:exon4:c.G419A:p.R140Q
ASXL1:NM_015338:exon12:c.2254dupG:p.V751fs
NRAS:NM_002524:exon2:c.G35T:p.G12V
NPM1:NM_002520:exon11:c.861_862insTGCA:p.L287fs
PTPN11:NM_002834:exon3:c.A182C:p.D61A
TET2:NM_001127208:exon3:c.1553dupT:p.I518fs
FLT3:NM_004119:exon20:c.G2503T:p.D835Y
NPM1:NM_002520:exon11:c.861_862insTGCA:p.L287fs
CEBPA:NM_004364:exon1:c.201_202insCTAC:p.I68fs
NPM1:NM_002520:exon9:c.761_771del:p.S254fs
IDH2:NM_002168:exon4:c.G419A:p.R140Q
SRSF2:NM_003016:exon1:c.C284G:p.P95R
SMC3:NM_005445:exon13:c.A1133C:p.K378T
FLT3:NM_004119:exon20:c.2502_2504del:p.834_835del
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
IDH1:NM_005896:exon4:c.G395A:p.R132H
SMC1A:NM_006306:exon4:c.G413A:p.G138D
TP53:NM_001126112:exon8:c.834_846delinsCTTTTCGC:p.278_282delinsPFR
KRAS:NM_033360:exon2:c.G35A:p.G12D

NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
GATA2:NM_032638:exon5:c.1096_1097insCCAACG:p.G366delinsANG
TET2:NM_001127208:exon3:c.1606_1607del:p.K536fs
TET2:NM_001127208:exon7:c.G3866A:p.C1289Y
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
3:NM_004119:exon14:c.1792_1793insGCCTTGATTTTCAGAGAATATG:p.E598delinsGLDFR
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
NF1:NM_001042492:exon42:c.C6247T:p.R2083C
DNMT3A:NM_022552:exon15:c.1742_1743delinsCT:p.W581S
IDH1:NM_005896:exon4:c.C394T:p.R132C
KIT:NM_000222:exon17:c.T2377A:p.L793M
NO_MUTATION
FLT3:NM_004119:exon20:c.2508_2510del:p.836_837del
IDH1:NM_005896:exon4:c.C394T:p.R132C
DNMT3A:NM_022552:intron19:c.2323-1G>C
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
FLT3:NM_004119:exon14:c.1770_196dup:p.591_599dup
RAD21:NM_006265:exon2:c.98_99insTCCCTTTT:p.F33fs
EZH2:NM_004456:exon6:c.C619T:p.R207X
EZH2:NM_004456:exon20:c.2229_2230insCCCGGC:p.I744delinsPGI
WT1:NM_024426:exon9:c.1371_1372insGGTTCCGTCGT:p.R458fs
FLT3:NM_004119:exon14:c.1783_1821dup:p.595_607dup
WT1:NM_024426:exon9:c.C1372T:p.R458X
WT1:NM_024426:intron7:c.1249+1G>A
NRAS:NM_002524:exon2:c.G38A:p.G13D
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
TET2:NM_001127208:exon3:c.C1648T:p.R550X
NRAS:NM_002524:exon2:c.G37C:p.G13R
NRAS:NM_002524:exon3:c.A182G:p.Q61R
SF3B1:NM_012433:exon15:c.C2098G:p.Q700E
EP300:NM_001429:exon26:c.T4242G:p.Y1414X
BCORL1:NM_021946:exon3:c.C2512T:p.Q838X
STAG2:NM_001042749:exon25:c.C2464T:p.Q822X
DNMT3A:NM_022552:exon23:c.C2644A:p.R882S
FLT3:NM_004119:exon14:c.1799_1800insCC:p.D600fs
NRAS:NM_002524:exon3:c.A183T:p.Q61H
PTPN11:NM_002834:exon3:c.A227G:p.E76G
FLT3:NM_004119:exon20:c.G2503T:p.D835Y
IDH1:NM_005896:exon4:c.G395A:p.R132H
NPM1:NM_002520:exon11:c.861_862insTGTA:p.L287fs
NPM1:NM_002520:exon11:c.861_862insTGCA:p.L287fs
3:NM_004119:exon14:c.1793_1794insCGTTGATTTTCAGAGAATATGA:p.E598delinsDVDFR
SF3B1:NM_012433:exon14:c.G1998T:p.K666N
GGAATGTGCCAAATGTTTCTGCAGCATTTCTTTCCATTGGAAAATCTTTAAAATGCACG
NPM1:NM_002520:exon11:c.860_863dup:p.W288fs
IDH2:NM_002168:exon4:c.G419A:p.R140Q
NRAS:NM_002524:exon2:c.G34A:p.G12S
WT1:NM_024426:exon7:c.C1105T:p.R369X
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
DNMT3A:NM_175629:exon23:c.G2645A:p.R882H

RUNX1:NM_001001890:exon6:c.1270_1271insGAACCAGAGCG:p.D424fs
PTPN11:NM_002834:exon13:c.C1520A:p.T507K
STAG2:NM_001042749:exon31:c.3391_3392del:p.R1131fs
NPM1:NM_002520:exon11:c.859_860insTTTG:p.L287fs
FLT3:NM_004119:exon14:c.A1718G:p.E573G
KRAS:NM_033360:exon2:c.G38A:p.G13D
NRAS:NM_002524:exon2:c.G38A:p.G13D
PTPN11:NM_002834:exon13:c.T1504C:p.S502P
SMC3:NM_005445:exon11:c.G931T:p.D311Y
PTPN11:NM_002834:exon3:c.A227G:p.E76G
SF3B1:NM_012433:exon15:c.A2098G:p.K700E
TACTTCTACGTTGATTTTCAGAGAATATGAATATGATCTCAAATGGGAGTTTCCAAGAGAA
DNMT3A:NM_175629:exon18:c.C2141G:p.S714C
SRSF2:NM_003016:exon1:c.C284T:p.P95L
BCORL1:NM_021946:exon6:c.3985_4010delinsAGACCAGGAAAA:p.K1328fs
FLT3:NM_004119:exon20:c.G2503T:p.D835Y
KRAS:NM_033360:exon2:c.G38A:p.G13D
PTPN11:NM_002834:exon3:c.G178C:p.G60R
NF1:NM_001042492:exon14:c.1561delA:p.S521fs
IDH1:NM_005896:exon4:c.G395A:p.R132H
DNMT3A:NM_175629:exon23:c.G2645A:p.R882H
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
RAD21:NM_006265:exon5:c.419delT:p.V140fs
DNMT3A:NM_175630:exon2:c.C55T:p.R19W
NPM1:NM_002520:exon9:c.758_771del
TET2:NM_001127208:exon3:c.2780dupT:p.V927fs
TET2:NM_001127208:exon3:c.1837dupG:p.P612fs
DNMT3A:NM_175629:exon18:c.C2099T:p.P700L
004119:exon14:c.1817_1818insTGAATATGATCTCAAATGGGAGTTTCC:p.P606delinsPEY
NPM1:NM_002520:exon11:c.860_863dup:p.W288fs
TET2:NM_001127208:exon3:c.971dupA:p.Q324fs
IDH1:NM_005896:exon4:c.C394T:p.R132C
DNMT3A:NM_175629:exon23:c.G2678C:p.W893S
NPM1:NM_002520:exon11:c.860_863dup:p.W288fs
NO_MUTATION
U2AF1:NM_001025203:exon6:c.G467A:p.R156H
BRAF:NM_004333:exon3:c.G475A:p.V159I
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
STAG2:NM_001042749:exon6:c.346_356delinsC:p.D116fs
PHF6:NM_032458:exon9:c.902dupA:p.Y301_H302delinsX
TET2:NM_001127208:exon6:c.G3782A:p.R1261H
GATA2:NM_032638:exon4:c.936_956dup:p.312_318dup□
CEBPA:NM_004364:exon1:c.C970G:p.L324V
CEBPA:NM_004364:exon1:c.939_940insAAG:p.V314delinsKV
FLT3:NM_004119:exon20:c.G2503T:p.D835Y
IDH1:NM_005896:exon4:c.G395A:p.R132H
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
DNMT3A:NM_175629:exon23:c.C2644T:p.R882C
KRAS:NM_033360:exon2:c.G35A:p.G12D
NRAS:NM_002524:exon3:c.A182G:p.Q61R

CEBPA:NM_004364:exon1:c.68_78del:p.P23fs
TET2:NM_001127208:exon7:c.A3907G:p.S1303G
CEBPA:NM_004364:exon1:c.A914C:p.Q305P
CSF3R:NM_156039:exon15:c.C1919A:p.T640N
_004119:exon14:c.1805_1806insTTTCAGAGAATATGAATATGATCTCAA:p.K602delinsNFR
CSF3R:NM_156039:exon17:c.2427dupC:p.S810fs
SRSF2:NM_003016:exon1:c.C283A:p.P95T
IDH2:NM_002168:exon4:c.G419A:p.R140Q
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
NRAS:NM_002524:exon2:c.G34A:p.G12S
NRAS:NM_002524:exon3:c.A182G:p.Q61R
WT1:NM_024426:exon9:c.C1393T:p.H465Y
FLT3:NM_004119:exon20:c.2508_2510del:p.836_837del
FLT3:NM_004119:exon16:c.A1988G:p.K663R
NPM1:NM_002520:exon11:c.860_863dup:p.W288fs
DNMT3A:NM_175629:exon7:c.C745T:p.Q249X
DNMT3A:NM_175629:exon22:c.A2525G:p.Q842R
IDH2:NM_002168:exon4:c.G419A:p.R140Q
SRSF2:NM_003016:exon1:c.C284A:p.P95H
ASXL1:NM_015338:exon12:c.1927dupG:p.G642fs
FLT3:NM_004119:exon14:c.1797_1798insCTTACCCAATATGAATAT:p.D600delinsLTQYEYI
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
IDH2:NM_002168:exon4:c.G419A:p.R140Q
PTPN11:NM_002834:exon3:c.A227G:p.E76G
IDH1:NM_005896:exon4:c.G395A:p.R132H
DNMT3A:NM_175629:exon23:c.G2645A:p.R882H
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
IDH1:NM_005896:exon4:c.C394T:p.R132C
NPM1:NM_002520:exon11:c.860_863dup:p.W288fs
WT1:NM_024426:exon7:c.1134delT:p.L378fs
PTPN11:NM_001330437:exon13:c.G1520A:p.G507E
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
STAG2:NM_001042749:intron17:c.1639-2A>G
PHF6:NM_032458:exon9:c.903delC:p.Y301fs
3:NM_004119:exon14:c.1773_1774insTCAGATAATGAGTACTTCTAC:p.V592delinsSDNEY
WT1:NM_024426:exon8:c.A1330T:p.R444X
NPM1:NM_002520:exon11:c.860_863dup:p.W288fs
FLT3:NM_004119:exon16:c.C2028A:p.N676K
M_004119:exon14:c.1793_1794insCTACGTTGATTTTCAGAGAATATGA:p.E598delinsDYVD
RAD21:NM_006265:exon12:c.1585_1586insGA:p.K529fs
EP300:NM_001429:exon31:c.A5372G:p.Y1791C
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
DNMT3A:NM_175629:exon23:c.C2644T:p.R882C
821_1822insAGGCTCAGAGAATATGAATATGATCTCAAATGGGAGTTTCCAAGA:p.E608c
n14:c.1783_1784insAGGGCTCCTCAGATAATGAGTACTTCTACGTTGATTTCA:p.R595delir
DNMT3A:NM_175629:exon23:c.C2644T:p.R882C
BCOR:NM_017745:exon14:c.4834dupC:p.L1612fs
TP53:NM_001126112:exon8:c.C916T:p.R306X
NRAS:NM_002524:exon2:c.G35A:p.G12D
FLT3:NM_004119:exon20:c.A2522T:p.N841I

FLT3:NM_004119:exon21:c.T2600G:p.I867S
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
SRSF2:NM_003016:exon1:c.C284G:p.P95R
IDH2:NM_002168:exon4:c.G419A:p.R140Q
RUNX1:NM_001001890:exon6:c.1075_1076insTACCTGCCGCCGCCCTACC:p.P359fs
EZH2:NM_004456:exon17:c.G1978A:p.G660R
SF3B1:NM_012433:exon15:c.A2098G:p.K700E
DNMT3A:NM_022552:exon23:c.C2644T:p.R882C
CBL:NM_005188:exon8:c.1134_1135delinsAA:p.378_379delinsLK
CBL:NM_005188:exon9:c.G1243A:p.G415S
KRAS:NM_033360:exon2:c.C53A:p.A18D
NPM1:NM_002520:exon11:c.862_863insGCAG:p.W288fs
ASXL1:NM_015338:exon12:c.1927dupG:p.G642fs
TET2:NM_001127208:intron4:c.3500+1G>A
SRSF2:NM_003016:exon1:c.C284G:p.P95R
TET2:NM_001127208:exon10:c.4452delC:p.N1484fs
CBL:NM_005188:exon8:c.T1139C:p.L380P
EZH2:NM_004456:exon18:c.G2069A:p.R690H
PTPN11:NM_002834:exon3:c.G179T:p.G60V
NRAS:NM_002524:exon2:c.G35C:p.G12A
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
DNMT3A:NM_022552:exon10:c.1160_1161insTG:p.C387fs
LT3:NM_004119:exon14:c.1807_1808insATGAATATGATCTCAAAT:p.W603delinsYEYDLK
SMC3:NM_005445:exon11:c.896_897insTAA:p.I299delinsIN
DNMT3A:NM_022552:exon23:c.G2645A:p.R882H
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
IDH2:NM_002168:exon4:c.G419A:p.R140Q
LT3:NM_004119:exon14:c.1807_1808insATGAATATGATCTCAAAT:p.W603delinsYEYDLK
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
SMC3:NM_005445:exon11:c.896_897insTAA:p.I299delinsIN
DNMT3A:NM_022552:exon23:c.G2645A:p.R882H
CEBPA:NM_004364:exon1:c.717_718insCGCGCCC:p.A240fs
CEBPA:NM_004364:exon1:c.939_940insAAG:p.V314delinsKV
WT1:NM_024426:exon7:c.1170_1171insCTGCCCC:p.F391fs
WT1:NM_024426:exon7:c.1109_1110insC:p.R370fs
WT1:NM_024426:exon7:c.1195_1196insCACTGCA:p.N399fs
NRAS:NM_002524:exon3:c.A182G:p.Q61R
RAD21:NM_006265:exon8:c.867_872del:p.289_291del
CUX1:NM_001913:exon11:c.A1049G:p.K350R
NRAS:NM_002524:exon2:c.G34A:p.G12S
DNMT3A:NM_022552:exon23:c.G2645A:p.R882H
KIT:NM_000222:exon9:c.A1526T:p.K509I
GATA2:NM_032638:exon5:c.G1085A:p.R362Q
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs
DNMT3A:NM_175629:exon23:c.G2645A:p.R882H
AGATAATGAGTACTTCTACGTTGATTTTCAGAGAATATGAATATGATCTCAAATGGGAGTT
NPM1:NM_002520:exon11:c.859_860insTCTG:p.L287fs

95_1796insGCTCCTCAGATAATGAGTACTTCTACGTTGATTTTCAGAGAATATGAAT:p.Y599
STACTTCTACGTTGATTTTCAGAGAATATGAATATGATCTCAAATGGGAGTTTCCAAGAGA/
NM_024426:exon7:c.1143_1144insTACGGTCG:p.A382fs
FLT3:NM_004119:exon20:c.G2503T:p.D835Y
NPM1:NM_002520:exon11:c.860_863dup:p.W288fs
TET2:NM_001127208:exon6:c.G3785A:p.R1262Q
T2:NM_001127208:exon3:c.2069delA:p.Q690fs,TET2:NM_017628:exon3:c.2069delA:p.Q69
DNMT3A:NM_153759:exon19:c.G2078A:p.R693H, DNMT3A:NM_022552:exon23:c.G2645A:p.F
91_1792insACCGGCTCCTCAGATAATGAGTACTTCTACGTTGATTTTCAGAGAATAT:p.E598
_199185:exon10:c.772_773insTCTG:p.L258fs,NPM1:NM_002520:exon11:c.859_860insTCT

<b>VAF</b>
4.01146
37.963
44.7989
44.9198
48.2759
4.24628
4.4586
4.73118
29.7333
38.7952
43.6594
42.3656
46.0459
48.6423
94.1019
41.8573
44.6367
44.6398
45.9821
46.6368
48.5584
24.1379
40.1042
42.3469
4.42177
15.6485
41.7513
38.2253
38.5475
40.2597
33.494
43.7282
7.17629
29.5608
32.6172
37.4257
6.77656
33.4016
44.27
45.0751
38.4314
42.7653
46.2185
48.0287
43.9
5
4.2

35.5491
43.6782
44.1319
45.5263
47.4227
20.5882
45.0704
45.5432
47
47.4783
49.6997
NA
2.52874
45.0397
46.4471
46.6981
NA
2.40964
3.90764
5.04386
13.3562
25
2.11726
22.043
23.9157
29.6296
63.6268
4.8474
37.7049
40.048
44.8161
84.6473
85.0622
48.6081
NA
43.1579
8.42857
30.2264
41.9134
46.114
33.7079
38
46.2209
22.4771
43.9394
46.5228
16.3265
41.5254
41.2698
48.324



34.7826
39.3417
41.9802
44.2029
48.6111
2.40964
2.88221
4.19162
5.9322
20.5607
43.2247
13.1868
46.8571
50
10
2.38636
9.40767
13.2836
23.0769
26.7068
43.4307
43.4944
44.9102
60
24
42.3423
43.6992
51.1364
9.45559
47.0199
92.8889
46.5753
48.9362
59.0361
NA
22.5191
36.7347
57.265
82
83.9695
14.0777
39
40.5
44.7205
10.3352
17.1233
41.5789
53.6388
7.10526
24.1379

40.3315
45.5587
46.2277
46.2633
3.61111
6.69856
46.6357
47.5709
48
2.01342
34.0659
9.25926
14.0496
25.8242
31.746
47.2527
3.15457
45.488
47.0588
49.1124
3.59589
44.6064
49.3506
33.8832
35.1082
39.071
43.9359
32.8947
33.8028
9.25926
10.5556
34.3066
75
13.3333
26.1905
36.5079
46.4789
57.9439
3.76884
43.7086
46.4164
47.1042
47.8088
30.0885
37.2093
43.75
88.7755
82.7119
3.58974
5.83153

18.4783
42.9658
47.5362
48.0851
16.4912
44.7423
51.3465
52.809
81
4.35897
6.86499
16.6667
39.6396
43.2494
45.5621
47.2477
80.5611
16.1426
16.3814
20.6823
43.9863
44.0129
14.8377
39.7541
46.2085
47.4048
43.0556
46.1219
39.2226
40.9836
41.8231
46.6667
33.333
13.0802
4.55635
16.338
36.4943
43.75
37.4408
52.6957
44.247
46.2704
2.28401
48.3333
46.9091
41.261
7.78626
43.4442

2.03095
8.0315
37.8534
8.79332
49.6552
46.1667
48.1918
42.8904
19.8895
41.9048

Drug	Provider	Catalog #	Acronym	Solvent
Azacitidine	Selleckchem	S1782	AZA	DMSO
Crenolanib	Selleckchem	S2730	CRENO	DMSO
Enasidenib	Selleckchem	S8205	AG221	DMSO
Venetoclax	MedChem Express	HY-15531	VEN	DMSO
MI-2	Selleckchem	S7618	MI-2	DMSO
Midostaurin	MedChem Express	HY-10230	MIDO	DMSO
Actinomycin D	MedChem Express	HY-17559	ActinoD	DMSO
Cytarabine	MedChem Express	HY-13605	AraC	DMSO
Daunorubicin	MedChem Express	HY-13062	DNR	DMSO
EPZ5676	Selleckchem	S7062	EPZ	DMSO
ATRA	SIGMA	R2625	ATRA	DMSO
Panobinostat	Selleckchem	S1030	PANO	DMSO
OTX015	MedChem Express	HY-15743	OTX015	DMSO
Arsenic Trioxyde	Sigma	72718	ATO	HCl 2%
Selinexor	Interchim	AG001ASN	SEL	DMSO
Idasanutlin	MedChem Express	HY-15676	IDASA	DMSO
Dactolisib	MedChemExpress	HY-50673	DACTO	DMSO
Uprosertib	MedChemExpress	HY-15965	UPRO	DMSO
Olaparib	MedChem Express	HY-10162	OLA	DMSO
Palbociclib	MedChemExpress	HY-50767	PALBO	H <sub>2</sub> O
Ulixertinib	MedChemExpress	HY-15816	ULIX	DMSO
Ruxolitinib	MedChemExpress	HY-50856	RUXO	DMSO
Dabrafenib	MedChemExpress	HY-14660	DABRA	DMSO
Gilteritinib	MedChem Express	HY-12432	GILTE	DMSO
S63845	MedChem Express	HY-100741	S63845	DMSO
Glasdegib	MedChem Express	HY-16391	GLASDE	DMSO
Ivosidenib	MedChem Express	HY-18767	IVO	DMSO

NR: not reached

\*arbitrary choice as PK data was not available and IC50 not reached in healthy CD34+ cells.

Stock Concentration (mM)	Pharmacokinetics Data		Healthy CD34	
	C <sub>max</sub> (μM)	Reference (PMID or DOI)	Top tested concentration (μM)	IC <sub>50</sub> (μM)
100	3.1	15831784	3	NR
100	0.48	10.1182/blood.V126	0.5	NR
100	27.5	29320949	30	NR
100	2.1	28100580	3	0.31
100	N/A	N/A	10	NR
100	3.8	15345597	4	NR
100	0.16	24968986	0.2	0.041
100	55.13	23919448	10	2.73
100	0.19	27738808	4	0.19
100	N/A	N/A	10	NR
100	8	10388008	8	NR
100	0.29	25939707	0.3	0.015
20	0.274	26341814	1	0.2
5	4.56	28462082	5	0.66
100	2	28336527	2	NR
10	0.24	23808545	3	NR
20	1.7	28357727	1	NR
80	0.7	23795919	1	NR
100	0.06	30324586	1	NR
25	0.1	27402157	1	NR
100	2.79	29470718	10	NR
100	1.29	29162613	10	NR
50	7.56	27058232	10	NR
10	0.51	FDA	5	NR
10	N/A	N/A	10	0.029
10	3.03	29463550	30	1.038
100	1.69	30758648	20	NR

+ assay		Drug Response Pattern (Figure 2) Concentration ( $\mu\text{M}$ )	Niche Component Screen (Figure 3) Concentration ( $\mu\text{M}$ )	DNR-AraC S
IC <sub>40</sub> ( $\mu\text{M}$ )	IC <sub>10</sub> ( $\mu\text{M}$ )			Concentration ( $\mu\text{M}$ )
NR	NR	3	50	-
NR	NR	0.5	-	0.1
NR	NR	30	-	6
0.2	0.034	0.2	0.5	0.04
NR	NR	10	-	2
NR	NR	4	20	0.8
0.027	0.004	0.03	-	0.004
1.8	0.3	2	20	40
0.12	0.021	0.1	2	2
NR	NR	10	-	2
NR	NR	8	10	1.6
0.01	0.002	0.01	0.02	0.002
0.13	0.02	0.15	-	0.02
0.44	0.073	0.4	25	-
NR	NR	-	2	0.4
NR	NR	-	-	0.048
NR	NR	-	-	0.34
NR	NR	-	-	0.14
NR	NR	-	-	0.012
NR	NR	-	-	0.02
NR	NR	-	-	0.56
NR	NR	-	-	0.26
NR	NR	-	-	1.5
NR	NR	-	-	0.1
0.019	0.0034	-	-	0.0034
0.019	0.01	-	-	0.01
NR	NR	-	-	0.34

**Screen (Figure 5)**

<b>Justification</b>
-
20% of Cmax
20% of Cmax
IC10
arbitrary*
20% of Cmax
IC10
arbitrary
20:1 AraC/DNR ratio
arbitrary*
20% of Cmax
IC10
IC10
-
20% of Cmax
20% of Cmax
20% of Cmax
20% of Cmax
20% of Cmax
20% of Cmax
20% of Cmax
20% of Cmax
20% of Cmax
20% of Cmax
20% of Cmax
IC10
IC10
20% of Cmax



**Supplementary Table 5. Amino acid and hexose concentrations ( $\mu\text{M}$ ) in patients bone m**

<b>UPN</b>	<b>Sample</b>	<b>Ala</b>	<b>Arg</b>	<b>Asn</b>	<b>Asp</b>
SLS009	PLASMA	370	98.7	60	29.9
SLS014	PLASMA	459	85	70.4	4.63
SLS019	PLASMA	180	20	27.4	5.1
SLS020	PLASMA	425	77.2	56.7	22.1
SLS025	PLASMA	384	32.7	32.8	46.1
SLS032	PLASMA	292	62.2	33.1	13.3
SLS033	PLASMA	291	60.1	46.2	11
SLS036	PLASMA	76.6	13.5	11.8	10.2
SLS037	PLASMA	229	39.7	32.5	3.15
SLS043	PLASMA	428	62.1	53.8	117
SLS048	PLASMA	139	37.6	28.6	7.61
SLS050	PLASMA	434	139	55.2	75.2
SLS068	PLASMA	298	14.4	26.7	51.5
SLS070	PLASMA	172	78.8	37.6	5.33
SLS083	PLASMA	428	25.4	30.2	12.9
SLS085	PLASMA	287	95.8	41.1	25.2
SLS094	PLASMA	244	27.7	44.1	51.6
SLS095	PLASMA	551	46.9	69.6	47.8
SLS107	PLASMA	157	82.8	29.8	3.03
SLS110	PLASMA	274	34.3	31.9	6.7
SLS134	PLASMA	213	5.55	29	4.41
SLS149	PLASMA	218	24.6	22.9	16.5
SLS150	PLASMA	594	78.4	53.5	29.3
SLS158	PLASMA	563	18.3	48.1	47.9
SLS041	MSC w/AML CM	365	390	192	177
SLS043	MSC w/AML CM	375	363	209	213
SLS050	MSC w/AML CM	461	411	217	203
SLS058	MSC w/AML CM	456	457	210	213
SLS085	MSC w/AML CM	371	473	205	181
N/A	MSC w/o AML CM (ref.)	381	350	211	217

narrow plasma samples, MSC with or without AML co-culture

Cit	Gln	Glu	Gly	His	Ile	Leu
38.4	601	213	433	80.9	87	184
27.4	743	19.7	440	103	90	181
9.23	352	22.1	277	38.5	30.5	74.2
20.9	736	208	292	99	94.1	182
20.2	457	347	349	73.4	60.4	140
34.4	500	160	263	58.1	51.9	115
13.9	452	124	253	73.3	108	229
16.8	247	88.8	212	38.7	26.1	66.7
11.5	388	13.2	125	50.1	74.5	155
21	569	468	439	93.3	70.4	198
11.1	394	62.2	331	54.2	51.5	104
21.9	756	361	506	86.5	103	242
25.4	440	410	358	58.4	27.9	66.8
16.3	569	49	290	71.3	71.2	153
10.8	429	103	318	65.3	58.5	103
27.7	523	89.9	364	51	89.4	167
19.6	297	284	324	59	90	212
23.2	601	172	480	91.7	50.3	140
16.4	470	57	202	61	74.3	189
14.6	470	44.1	181	47.9	64.9	115
22.2	435	72.5	166	53.3	30	64.7
15	376	141	455	62	26.7	80.7
26.6	694	125	399	76.4	68.8	154
29	267	509	465	87.9	128	229
21.8	1580	609	618	138	285	347
23.3	1400	624	610	140	320	388
26.4	1410	609	705	158	347	443
26.3	1470	583	737	162	341	418
22.7	1570	657	689	153	348	418
23.4	1340	568	603	141	319	397

<b>Lys</b>	<b>Met</b>	<b>Orn</b>	<b>Phe</b>	<b>Pro</b>	<b>Ser</b>	<b>Thr</b>
275	22.8	144	73.6	245	133	137
295	32.1	126	74.3	310	127	168
117	12.4	84.8	67.7	152	60.2	44.2
236	30	95	77.2	278	133	139
218	20.9	135	78	245	112	121
169	12.4	98.8	53.7	176	59.6	109
215	36.7	129	142	109	59.5	85.2
69.4	6.52	70.7	51.6	93.3	22.8	51.9
132	20.3	147	152	161	65.6	59.7
340	29.2	197	134	265	128	106
149	10.5	48.1	32.4	110	78.4	57.2
332	29.6	176	114	241	167	139
140	8.39	88.3	72.3	131	13.7	74.3
187	18.9	80.2	60.4	150	88.1	87.5
163	13	88	57.4	185	33.6	84.1
322	30.1	113	62.9	184	77	113
219	22.9	109	73.1	161	120	95.9
193	27.7	128	86.3	510	177	150
151	15.2	84.5	91.2	138	119	78.5
112	10.2	102	98.3	164	63.5	53.9
109	9.68	99.7	68	119	29	46.9
113	7.73	69.3	45	130	26.4	53.7
224	17.5	123	97.7	334	79	107
291	32.8	109	92.9	351	106	124
331	60.2	50.3	149	281	203	294
348	63.5	57.6	153	279	217	319
378	73.8	85.9	182	341	255	329
353	74.1	84.9	182	351	240	318
347	68.6	54.6	166	313	229	311
367	66.1	54.6	152	296	228	325

<b>Trp</b>	<b>Tyr</b>	<b>Val</b>	<b>Hexoses</b>
67.5	84.1	264	5887
69.1	83.6	261	5423
46.1	64	130	6599
73.5	78.2	272	5818
56.6	78.5	233	4280
29.1	47.7	209	6062
61.6	89.6	282	3022
47.6	36.6	138	7332
43.3	70.3	269	8144
65	63.2	236	5254
48	30.3	176	5744
55.5	72.5	349	11364
32.6	46.6	135	3636
33.9	50.6	206	5495
48.3	50.1	221	3613
46.3	66.2	261	6365
27.5	62.3	255	3096
54.5	63.4	219	6257
44.7	51.2	275	6293
43.9	44.9	186	6786
52	49.1	133	5933
39.2	33	131	2571
52.1	66.5	265	7553
53.6	86.4	281	667
41	142	329	3562
38.7	148	343	5092
49.9	169	386	6417
53.4	168	400	6624
47.5	162	364	4592
45	148	346	5619

**Supplementary Table 6. Cytokine concentrations (pg/mL) in patients bone marrow plasma**

<b>UPN</b>	<b>Sample</b>	<b>SCF</b>	<b>TPO</b>	<b>M-CSF</b>	<b>IL-6</b>
SLS009	PLASMA	166.67	1783.69	15.69	14.41
SLS014	PLASMA	213.90	645.51	6.71	0.36
SLS019	PLASMA	133.60	2146.91	4.16	17.44
SLS020	PLASMA	130.75	334.86	10.97	0.08
SLS032	PLASMA	155.20	428.57	12.75	1.98
SLS033	PLASMA	107.84	4345.05	26.08	10.66
SLS036	PLASMA	112.01	1034.08	6.57	2.79
SLS037	PLASMA	130.75	2553.45	24.20	58.73
SLS048	PLASMA	126.63	524.13	2.74	0.45
SLS050	PLASMA	134.13	1007.57	15.05	0.27
SLS070	PLASMA	139.29	710.62	4.75	1.35
SLS083	PLASMA	145.50	959.54	4.92	1.39
SLS085	PLASMA	165.13	964.15	6.08	1.68
SLS094	PLASMA	153.62	266.74	18.92	31.77
SLS095	PLASMA	154.36	1091.52	10.45	2.08
SLS107	PLASMA	136.02	2330.95	15.59	4.36
SLS110	PLASMA	153.05	641.32	29.71	19.55
SLS134	PLASMA	132.19	326.31	7.51	5.64
SLS149	PLASMA	111.40	1145.63	5.33	4.67
SLS150	PLASMA	151.22	274.32	8.28	2.11
SLS158	PLASMA	92.08	178.12	16.85	641.73
SLS041	MSC w/AML CM	371.52	33.02	4.34	4954.19
SLS043	MSC w/AML CM	547.41	86.44	22.98	4877.97
SLS050	MSC w/AML CM	336.94	16.51	3.69	424.66
SLS058	MSC w/AML CM	321.79	16.51	1.52	335.24
SLS085	MSC w/AML CM	335.98	158.68	15.61	5120.21
N/A	MSC w/o AML CM (ref.)	638.89	16.51	2.40	213.33

**sma samples, MSC with or without AML co-culture**

<b>IL-3</b>	<b>GM-CSF</b>	<b>G-CSF</b>	<b>FLT3-L</b>	<b>EPO</b>
10.74	1.96	26.12	11.53	3102.79
9.02	0.06	14.57	56.83	448.83
0.53	0.56	46.26	2.54	5295.89
0.53	0.05	3.62	40.92	894.58
0.53	0.16	40.58	6.02	1666.10
0.53	0.11	81.97	1.73	285.71
8.11	0.25	6.41	2.20	3832.85
0.53	0.71	2751.97	344.55	4201.56
0.53	0.14	8.18	14.21	1603.22
4.62	0.01	19.26	4.71	473.80
29.96	0.47	14.41	1.70	9474.90
6.12	0.21	20.39	2.12	1480.91
10.18	0.11	14.62	118.73	101.77
0.53	0.11	17.92	49.96	336.82
18.44	0.30	6.73	95.98	144.15
0.53	0.06	22.92	3.75	2641.16
9.61	1.07	163.23	2.74	19817.46
0.53	0.01	17.97	7.84	280.62
0.53	0.08	1.30	3.31	633.83
5.01	0.15	18.12	5.20	2788.55
0.53	0.02	15.93	2.58	385.63
0.54	4.83	224.69	1279.48	31.84
0.54	102.80	584.14	1415.06	36.63
0.54	8.56	1.30	914.46	22.20
0.54	5.09	1.30	323.99	21.13
18.66	1195.44	9458.90	1556.85	37.73
0.54	9.69	1.30	1749.51	34.36

Supplementary Table 7. Comparison of reference and plasma-like medium	MW	MEM $\alpha$ (Cat #22571)	
		mg/L	mM
<b>Anorganic salts</b>			
Calcium Chloride (CaCl <sub>2</sub> -2H <sub>2</sub> O)	147	264	1.796
Magnesium Sulfate (MgSO <sub>4</sub> ) (anhyd.)	120	97.67	0.814
Potassium Chloride (KCl)	75	400	5.333
Sodium Bicarbonate (NaHCO <sub>3</sub> )	84	2200	26.190
Sodium Chloride (NaCl)	58	6800	117.241
Sodium Phosphate monobasic (NaH <sub>2</sub> PO <sub>4</sub> -H <sub>2</sub> O)	138	140	1.014
<b>Other components</b>			
D(+)-Glucose anhydrous	180	1000	5.556
Lipoic acid	206	0.2	0.001
Phenol Red	376.4	10	0.027
Sodium Pyruvate	110	110	1.000
<b>Vitamines</b>			
Ascorbic Acid	176	50	0.284
Biotin	244	0.1	0.000
Choline chloride	140	1	0.007
D-Calcium pantothenate	477	1	0.002
Folic Acid	441	1	0.002
myo-Inositol	180	2	0.011
Niacinamide	122	1	0.008
Pyridoxal hydrochloride	204	1	0.005
Riboflavin	376	0.1	0.000
Thiamine hydrochloride	337	1	0.003
Vitamin B12	1355	1.36	0.001
<b>Ribonucleosids</b>			
Adenosine	267	10	0.037
Cytidine	243	10	0.041
Guanosine	283	10	0.035
Uridine	244	10	0.041
<b>Deoxy-ribonucleosids</b>			
2'-Deoxyadenosine x H <sub>2</sub> O	251	10	0.040
2'-Deoxycytidine x HCl	264	11	0.042
2'-Deoxyguanosine	267	10	0.037
2'-Deoxythymidine	242	10	0.041
<b>Amino acids</b>			
Glycine	75	50	0.667
L-Alanine	89	25	0.281
L-Arginine hydrochloride	NA	0	0.000
L-Arginine	211	105	0.498
L-Asparagine-H <sub>2</sub> O	150	25	0.167
L-Aspartic acid	133	30	0.226
L-Cysteine hydrochloride-H <sub>2</sub> O	176	100	0.568
L-Cystine	313	31	0.099
L-Glutamic Acid	147	75	0.510
L-Glutamine	146	292	2.000
L-Histidine hydrochloride-H <sub>2</sub> O			
L-Histidine	155	31	0.200

L-Isoleucine	131	52.4	0.400
L-Leucine	131	52	0.397
L-Lysine hydrochloride			
L-Lysine	183	73	0.399
L-Methionine	149	15	0.101
L-Phenylalanine	165	32	0.194
L-Proline	115	40	0.348
L-Serine	105	25	0.238
L-Threonine	119	48	0.403
L-Tryptophan	204	10	0.049
L-Tyrosine	181	36	0.199
L-Valine	117	46	0.393
<b>Dialyzed FBS</b>		25%	
<b>Cytokines</b>		ng/ml	
TPO		0	
EPO		0	



**Plasma-like Medium**

mg/L	mM
264.92	1.802
97.67	0.814
400	5.333
2200	26.188
6300	107.188
140	1.015
1000	5.556
0.2	0.001
10	0.027
110	1.000
50	0.284
0.1	0.000
1	0.007
1	0.002
1	0.002
2	0.011
1	0.008
1	0.005
0.1	0.000
1	0.003
1.33	0.001
10	0.038
10	0.041
10	0.035
10	0.041
10	0.040
11	0.042
10	0.038
10	0.041
32	0.430
22	0.250
0	0.000
35	0.160
8	0.050
8	0.060
100	0.570
31	0.100
33	0.220
144	0.990
0	0.000
18	0.120

19	0.140
25	0.190
0	0.000
45	0.240
6	0.040
20	0.120
30	0.260
12	0.120
20	0.170
11	0.050
19	0.100
33	0.280

25%

ng/ml

1

2.5

**Supplementary Table 8. Variants and primers for targeted sequencing of primary samples a**

UPN	Target	VariantCaller	Chr	Pos	REF
SLS356	BCOR_p.L1612fs	Varscan	chrX	40053925	A
SLS356	DNMT3A_p.R882C	Varscan	chr2	25234374	G
SLS356	FLT3_p.E608ITD	Pindel	chr13	28034097	C
SLS352	ASXL1_p.V751fs	Varscan	chr20	32434965	T
SLS352	CEBPA_p.P197delinsHPP	Varscan	chr19	33301825	G
SLS352	IDH2_p.R140Q	Varscan	chr15	90088702	C
SLS352	SRSF2_p.P95H	Varscan	chr17	76736877	G
SLS353	NPM1_p.A253fs	Pindel	chr5	171405390	ATAGAAAAA
SLS353	TET2_p.P612fs	Varscan	chr4	105235778	T
SLS353	TET2_p.V927fs	Varscan	chr4	105236721	G
SLS158	ASXL1_p.G642fs	Varscan	chr20	32434638	A
SLS158	DNMT3A_p.Q842R	Varscan	chr2	25235779	T
SLS158	IDH2_p.R140Q	Varscan	chr15	90088702	C
SLS158	SRSF2_p.95H	Varscan	chr17	76736877	G
SLS325	DNMT3A_p.V296G	Varscan	chr2	25247718	A
SLS325	NRAS_p.G12D	Varscan	chr1	114716126	C
SLS325	SRSF2_p.P95H	Varscan	chr17	76736877	G
SLS325	TET2_p.H1219R	Varscan	chr4	105243631	A
SLS351	PTPN11_p.T507K	Varscan	chr12	112489096	C
SLS351	RUNX1_p.D424fs	Varscan	chr21	34792226	T
SLS355	CBL_p.378_379delinsLK	Varscan	chr11	119278204	CC
SLS355	DNMT3A_pR882C	Varscan	chr2	25234374	G
SLS355	EZH2_p.G660R	Varscan	chr7	148810384	C
SLS355	RUNX1_p.P359fs	Varscan	chr21	34792421	G
SLS355	SF3B1_p.K700E	Varscan	chr2	197402110	T

ind residual cells after standard or niche-like culture

ALT	Forward Primer	Reverse Primer
AG	AGGACCAGAAGACCAGGATGA	GCATTGTGTGAGGTTTCGTGG
A	CCTGCTGTGTGGTTAGACGG	CGCAAATACTCCTTCAGCGG
GAGATCAT	AAAGCCAGCTACAGATGGTACA	TCCATAAGCTGTTGCGTTCA
TG	ACAGAGGGCTACAGTTGGACT	GTGGTGCCAGACTCACATTCA
GGCGGGT	CGCTGGTGATCAAGCAGGA	TTGTCCACCGACTTCTTGGC
T	GCTGCAGTGGGACCACTATT	CAAGAGGATGGCTAGGCGAG
T	TTCGCCTTCGTTTCGCTTTCA	CCCCTCAGCCCCGTTTACC
CGT	TCAGGGACAAGAATCCTTCAAGA	CAGTGCACTACGTTCCCTTGC
TG	CTCGTTTTACCAAGCGGAAT	TTGGGACTGCCCTTGATTCAT
GT	GCAAGATCTTCTTCACAGGTGC	GTGTGACTTCTCCCTGGTC
AG	CGAGAGGTCACCACTGCCATA	AGGATAAGGCGGCAGTAGTTG
C	TGGTAGACGCATGACCAGTGT	GCACAGCAATCAGAACAGCC
T	GCTGCAGTGGGACCACTATT	CAAGAGGATGGCTAGGCGAG
T	TTCGCCTTCGTTTCGCTTTCA	CCCCTCAGCCCCGTTTACC
C	TCGTCTCCCCGATTTTGCT	TGAGAATTTGCCGTCTCCGAA
T	AAGTACTGTAGATGTGGCTCGC	TCCGACAAGTGAGAGACAGGAT
T	TTCGCCTTCGTTTCGCTTTCA	CCCCTCAGCCCCGTTTACC
G	ATGGAATGGTGATCCACGCAG	AAGTGACGCTGAACTCTCTT
A	TTCGTAGGTGTTGACTGCGA	CCTGCTCAAAGGAGAGCGT
GCTCTGGT	GGCTCCTACCAGTTCTCCATG	CTCAGTAGGGCCTCCACAC
AA	TGGAGCTTAAAATAGGACCCAGA	GCTGTTTAGATCCGTACCTGC
A	CCTGCTGTGTGGTTAGACGG	CGCAAATACTCCTTCAGCGG
T	TCACTCTGTGCGCTTTTGTG	TCTGGTCACCTCACTGACCT
GGCGGCGC	CCCCCGCATGCACTATCC	CCCACCATGGAGAACTGGTA
C	GCTGACAGGCTATGGTTCATGT	GTTGGCGGATACCCTTCCATA

PRIMARY_VAF	STANDARD_CULTURE_VAF	ICHE-LIKE_CULTURE_VAF
0.93	0.89	0.38
0.49	0.44	0.22
0.19	0.09	0.07
0.43	0.39	0.23
0.36	0.03	0.30
0.45	0.39	0.21
0.42	0.39	0.22
0.02	0.03	0.03
0.40	0.33	0.28
0.38	0.27	0.27
0.30	0.20	0.21
0.07	0.06	0.06
0.49	0.29	0.34
0.47	0.32	0.32
0.26	0.39	0.34
0.45	0.40	0.30
0.49	0.41	0.33
0.44	0.41	0.31
0.35	0.34	0.34
0.28	0.27	0.26
0.83	0.88	0.72
0.48	0.46	0.38
0.34	0.38	0.34
0.12	0.11	0.08
0.48	0.45	0.37

Supplementary Table 9. Gene signatures for leukemic states.

VANGALEN_GMP_LIKE	VANGALEN_HSC_LIKE	VANGALEN_PROGENITOR_LIKE	VANGALEN_T
PRTN3	NPTX2	CDK6	DEFB1
MPO	H1FO	HSP90AB1	RNASE2
CALR	EMP1	SPINK2	MS4A3
CLEC5A	MEIS1	EEF1B2	SERPINB10
ELANE	CALCRL	PCNP	SESN3
POU4F1	TPSD1	TAPT1-AS1	ZFR
TRH	TPT1	HINT1	MRPL33
TSPOAP1	CRHBP	LRRC75A-AS1	CTSG
CEBPE	CLNK	DSE	SLC44A1
LINC01835	TSC22D1	PEBP1	SLPI
NUCB2	DST	LOC107984974	FUT4
CSF3R	NRIP1	H2AFY	SRGN
RUNX1T1	ABCB1	EEF1A1	CD70
CD38	GABRA4	SMIM24	PRLR
PLPPR3	ZBTB20	PSME1	PLD3
IGFBP2	ABCA9	SOX4	LPL
PRRT4	TPSB2	LINC01623	RETN
SNHG5	KMT2A	EEF1G	TP53INP2
FABP5	FAM30A	EBPL	HSPA5
LOC100419170	MEF2C	EIF4B	RNASE3
CLEC11A	TMEM74	PARP1	CCL23
SERPINB1	PDZRN4	MEST	EMB
AZU1	ST3GAL1	TMEM70	ATP8B4
FBN2	XIRP2	TFDP2	CLU
HNRNPDL	RBPMS	ATP5G2	FAM107B
HSPB1	TMEM25	NAP1L1	KBTBD11
RNA5-8S	C20orf203	MSI2	CSTA
THSD7A	GNG11	TPM4	ANKRD28
C12orf57	SLC6A13	SPN	PIWIL4
FGFR1	HOPX	SELL	RNVU1-6
LPO	CMTM2	RACK1	F13A1
MGST1	HIST1H2BK	CTSC	PROK2
C1QTNF4	NPDC1	PRDX6	IL31RA
HMGN1	SCRN1	EGFL7	PLAC8
SIPA1L2	MECOM	SNHG6	ELF1
DDOST	CXCL2	NOP53	EP400NL
PTGIR	CCS	MRPL57	EAF2
GATM	FAM74A4	SELENOP	RFX8

<i>VAMP8</i>	<i>UMODL1-AS1</i>	<i>CCDC152</i>	<i>PTGFR</i>
<i>FAM46A</i>	<i>CCDC18-AS1</i>	<i>SRSF6</i>	<i>JUN</i>
<i>VAMP5</i>	<i>TTLL10</i>	<i>SNHG8</i>	<i>FRMD3</i>
<i>STAR</i>	<i>CFAP61</i>	<i>B4GALT6</i>	<i>HOXB-AS3</i>
<i>ANKRD18A</i>	<i>PLCB4</i>	<i>HNRNPA1</i>	<i>PHACTR3</i>
<i>TM7SF3</i>	<i>SPON1</i>	<i>KIF2A</i>	<i>AK2</i>
<i>CCND1</i>	<i>LINC01770</i>	<i>HSH2D</i>	<i>ECRP</i>
<i>ROBO1</i>	<i>CACNB4</i>	<i>PTPRCAP</i>	<i>DDIT3</i>
<i>GFI1</i>	<i>CCDC144NL-AS1</i>	<i>NACA2</i>	<i>RFLNB</i>
<i>DEFA4</i>	<i>RNF217</i>	<i>PDLIM1</i>	<i>FEZ1</i>
<i>CERS6</i>	<i>ZBPB</i>	<i>CPA3</i>	<i>SERPINB2</i>
<i>PTMA</i>	<i>MPPED2</i>	<i>GNPTAB</i>	<i>CDKN2A</i>

PROMONOCYTE\_LIKE

VANGALEN\_MONOCYTE\_LIKE

VANGALEN\_CDC\_LIKE

<i>FCN1</i>	<i>MRC1</i>
<i>S100A12</i>	<i>HLA-DRB5</i>
<i>MAFB</i>	<i>CST3</i>
<i>VCAN</i>	<i>SAMHD1</i>
<i>S100A9</i>	<i>NAPSB</i>
<i>PLBD1</i>	<i>FCER1A</i>
<i>SERPINA1</i>	<i>HLA-DRB1</i>
<i>BCL2A1</i>	<i>JAML</i>
<i>THBS1</i>	<i>PKIB</i>
<i>PSAP</i>	<i>HLA-DRA</i>
<i>S100A8</i>	<i>HLA-DRB6</i>
<i>FPR1</i>	<i>CPVL</i>
<i>C5AR1</i>	<i>HLA-DPB1</i>
<i>CD14</i>	<i>HLA-DQA1</i>
<i>NAMPT</i>	<i>HLA-DPA1</i>
<i>VNN2</i>	<i>CLEC4A</i>
<i>CTSS</i>	<i>TMSB10</i>
<i>DUSP1</i>	<i>CAP1</i>
<i>CEBPB</i>	<i>HLA-DQB1</i>
<i>CR1</i>	<i>CRIP1</i>
<i>NFKBIA</i>	<i>CLEC10A</i>
<i>SLC11A1</i>	<i>GPX1</i>
<i>LILRB3</i>	<i>ITGB7</i>
<i>BCL6</i>	<i>HLA-DQB2</i>
<i>CYP1B1</i>	<i>DBI</i>
<i>TNFAIP2</i>	<i>FTH1P3</i>
<i>MS4A10</i>	<i>ACTB</i>
<i>AQP9</i>	<i>HLA-DQA2</i>
<i>TLR4</i>	<i>S100B</i>
<i>APOBEC3A</i>	<i>ALDH2</i>
<i>LRRK2</i>	<i>GABARAP</i>
<i>CD163</i>	<i>LY86</i>
<i>LRP1</i>	<i>IGSF6</i>
<i>S100A10</i>	<i>HLA-DPB2</i>
<i>CD68</i>	<i>CD74</i>
<i>MEGF9</i>	<i>PAK1</i>
<i>NCF2</i>	<i>LGALS2</i>
<i>LOC643802</i>	<i>CSF1R</i>



<i>IFNGR1</i>	<i>PALLD</i>
<i>FTL</i>	<i>CCR2</i>
<i>SLC24A4</i>	<i>GPR183</i>
<i>CD300E</i>	<i>GRB2</i>
<i>CXCL8</i>	<i>EPS8</i>
<i>CLEC7A</i>	<i>COTL1</i>
<i>NEAT1</i>	<i>DHRS9</i>
<i>CLEC4E</i>	<i>HLA-DMB</i>
<i>CRISPLD2</i>	<i>HLA-DMA</i>
<i>MEFV</i>	<i>PYCARD</i>
<i>ACSL1</i>	<i>LOC644936</i>
<i>NCF1</i>	<i>SH3BGRL3</i>

**Supplementary Table 10. Differential gene expression averaged across 500 progenitor ce**

<b>Gene</b>	<b>log2FC</b>	<b>FDR q-value</b>
ANXA1	-2.6974206	0
CD99	-2.2820004	0
MYADM	-2.733183	0
TAGLN2	-1.9249345	0
TSC22D3	-2.9993758	0
VIM	-3.6780996	0
LMNA	-3.6389994	4.10E-302
CRIP1	-4.0560232	1.92E-286
TUBA1A	-2.5670584	1.48E-269
RPS10	1.09409307	4.08E-252
RGCC	-3.3617637	3.69E-251
ADGRE5	-1.9630999	1.72E-245
EIF1	-1.2130854	1.46E-239
ATP2B1	-2.0437947	1.43E-237
UBC	-1.4030298	9.65E-216
RPS29	0.73806574	2.43E-215
JUND	-1.5843134	1.31E-213
RPL38	0.86553586	1.06E-207
AC020916.1	-2.0424889	3.84E-205
EMP3	-1.8603933	6.30E-203
TUBB4B	-1.6948327	1.23E-201
PLCG2	1.73889251	1.58E-201
TPSAB1	3.14224632	9.83E-194
MTRNR2L12	1.32960747	1.06E-189
LTC4S	1.45301171	2.62E-186
AHNAK	-2.0062326	9.35E-180
EMP1	-1.9737394	1.77E-179
RPS27	0.66449818	2.45E-179
TGFB1	-1.3589861	4.55E-178
CLIC1	-1.0599698	1.49E-177
CD44	-1.4139905	4.04E-177
SAT1	-1.810989	2.29E-174
MGST1	1.63918342	5.11E-173
CYTL1	2.30323256	7.35E-172
LRRFIP1	-1.3394138	3.80E-171
RPL31	0.73453269	2.51E-170
UCP2	-1.5624121	1.03E-169
MCL1	-1.5763477	1.50E-165
IRF1	-1.4870665	1.00E-154
SLC40A1	1.54519055	2.25E-152
SNHG6	0.96096112	7.02E-148
RTN4	-1.1290849	2.98E-145
MYL6	-0.9907065	3.40E-144
KLF6	-1.6926249	5.53E-144
CALM1	-1.3234723	3.69E-142
RPL37	0.58034541	2.06E-140
RAB11FIP1	-1.2910544	7.12E-140

PPP1R15A	-1.1996037	4.28E-129
TUBB6	-1.032931	3.49E-127
MMP2	1.04829923	1.03E-126
APOC2	1.29550691	2.08E-126
ANPEP	1.01018428	2.76E-122
GNA15	-1.0148793	4.63E-122
EFHD2	-1.036381	5.46E-122
RARA	-0.9494113	4.89E-119
PER1	-0.8811781	7.47E-119
HSPA5	-1.9722822	1.37E-118
PDLIM1	-0.9238836	5.95E-118
ORA1	-0.9288289	1.88E-116
MAP2K3	-1.1052079	3.96E-116
CD52	-1.2972961	5.63E-116
ANKRD28	-1.0756378	9.73E-116
MIDN	-1.0952485	3.53E-114
MYB	1.00199086	8.06E-114
MYC	1.0027345	6.77E-113
TNFRSF12A	-0.9224185	1.37E-112
ZFAS1	0.86367636	2.31E-112
UQCR10	0.83424068	1.79E-109
CREB5	-0.9755295	4.24E-109
RPL39	0.49607268	9.89E-109
ZFP36	-1.3358433	1.07E-108
TPM4	-1.177647	1.47E-108
RPS9	-0.5469057	2.21E-108
SLC44A1	0.90458732	4.28E-108
GLIPR2	-0.8639548	1.15E-107
AIF1	-0.8685854	4.49E-107
SOX4	1.37021265	6.13E-107
CTSD	0.88867636	9.14E-107
VSIR	-1.1052289	1.23E-106
AKAP13	-1.0324252	3.71E-106
MT-ND4L	0.8833201	1.18E-105
JUNB	-1.4384736	3.23E-104
CRIP2	-0.7457232	7.85E-103
ZBTB7A	-0.9192055	8.75E-103
RPL34	0.49323596	7.91E-102
RPS20	0.65462472	9.50E-101
SEPTIN11	-0.9636516	1.23E-100
PLK3	-0.8735534	2.24E-100
S100A11	-1.3080064	3.09E-100
PWWP3A	0.57170648	2.47E-99
RASL10A	-0.6764697	2.78E-99
AL355922.1	0.7595787	4.44E-99
CIRBP	-0.8388411	1.10E-98
MTURN	-0.8639262	1.92E-98
H1FX	-1.6938784	2.86E-98
GABPB1-AS	1.05327393	4.17E-98
IDS	-0.9510931	5.98E-98

SORL1	1.03587789	2.43E-97
SH3BGRL3	-0.8522189	3.86E-97
H3F3A	-0.5900456	5.36E-97
PABPC1	0.74131603	5.87E-97
MT-ATP8	0.90572535	1.11E-96
BCL2	0.62212086	7.21E-96
FOSB	-1.1492029	9.80E-96
RPL35A	0.46701293	3.66E-95
LST1	-0.9579725	5.16E-95
NAIP	0.56997162	6.45E-95
LYN	-0.8471912	4.38E-94
PRR7	-0.6654126	2.45E-93
CDKN1A	-0.7299736	5.06E-93
KIT	0.79256751	8.91E-93
HES1	-1.1910289	1.69E-91
DSTN	-0.8761812	2.06E-91
LINC01226	0.57150607	2.09E-91
PRXL2C	-0.8187203	2.47E-91
RAP1B	-0.8573844	3.60E-91
TSC22D1	-1.1306032	4.85E-91
ICAM3	-0.7675359	2.86E-90
RASGRP3	0.81424717	5.62E-90
HMG1	0.62865292	5.79E-88
LARS	0.73186766	7.66E-88
PHLDA2	-0.7588794	1.27E-87
CITED2	0.7934308	2.88E-87
RNASE2	1.12106751	6.84E-87
TXN	-0.8186493	4.64E-86
MIS18BP1	0.79515337	5.70E-86
FYB1	0.79924071	7.54E-86
KCTD9	-0.9768716	5.60E-85
HSD17B4	0.66595974	1.30E-84
ST8SIA6	0.68871887	2.59E-84
SLC9A3R1	-0.8955429	3.19E-84
SPIN4	0.61577528	7.29E-84
PCBP2	0.6507924	1.27E-83
RPS17	0.62535002	1.42E-83
PNP	-0.8954521	1.45E-83
ITGA5	-0.7613676	1.55E-83
LINC01268	0.62351376	1.97E-83
DNAJB6	-0.8460499	2.62E-83
ST3GAL6	0.43242129	2.86E-83
KMT2E	-0.7563822	3.49E-83
ANGPT1	0.98621889	5.80E-83
RBM38	-0.8088177	6.79E-83
MYCN	0.61163652	6.81E-83
AC245060.5	0.81220073	8.41E-83
CAPG	0.78009752	2.39E-82
CXXC5	-0.9560445	3.92E-82
PPIL4	-0.7341789	4.85E-82

IFITM10	0.35016314	5.28E-82
TPM3	-0.7436446	8.89E-82
MPC2	-0.6974314	1.40E-81
MAT2A	0.72902563	1.69E-81
HERC2	0.61914715	1.73E-81
IFT57	-0.7068963	2.74E-81
GTF2I	0.74163734	4.26E-81
MRC2	0.44876069	4.30E-81
TMSB10	-0.7078046	8.42E-81
JCHAIN	-1.7196723	1.49E-79
RGS18	0.57428502	1.81E-79
LRPAP1	0.77416893	4.56E-79
RASGEF1B	-0.6713388	5.58E-79
HIF1A	-0.8312706	5.67E-79
ACSM3	1.02637586	6.80E-79
URI1	0.69362026	9.82E-79
FAM30A	-0.9955689	6.08E-78
SERBP1	0.64884815	1.55E-77
TREM1	-0.7788406	2.15E-77
LMNB1	0.51367311	4.74E-77
KLF3	-0.8282717	7.83E-77
VMP1	-0.7918617	1.89E-76
RELB	-0.7677596	3.12E-76
FSCN1	-0.8029673	5.30E-76
NFATC1	-0.7100713	6.83E-76
KNOP1	0.52762706	1.62E-75
RPL37A	0.42703289	1.96E-75
MT-ND6	0.78521975	3.89E-75
PHF20	-0.7523418	1.02E-74
NDUFV2	-0.6473749	1.32E-74
HTRA3	0.45983633	1.92E-74
AL627171.2	0.67263484	1.99E-74
MBOAT7	-0.7476926	2.16E-74
NACA	0.43246715	4.73E-74
FRY	0.48752687	8.07E-74
YBX3	-0.8703873	2.60E-73
IRF2BP2	0.80679355	9.83E-73
NEAT1	-1.0198013	1.92E-72
KRAS	-0.7066414	2.10E-72
ARID4B	-0.7861258	2.24E-72
NDUFB1	0.64379731	2.44E-72
LY6E	-0.8388744	1.17E-71
MBP	-0.7438181	1.24E-71
DDAH2	-0.7432204	1.31E-71
S100A6	-1.1242583	2.74E-71
PIM3	-0.7530294	8.69E-71
RPS11	0.45045669	1.70E-70
TOP2B	0.74092227	1.87E-70
UBE2B	-0.6639425	1.88E-70
ID1	-1.4815564	2.06E-70

MEX3B	0.37006259	2.12E-70
HMGB1	0.64721509	7.19E-70
CD74	-0.8991125	9.00E-70
HLA-A	-0.6939658	9.34E-70
MANF	-0.7347408	9.71E-70
RALGDS	-0.7934938	1.05E-69
YPEL5	-0.8759533	1.90E-69
MRPL33	0.67135685	3.15E-69
YWHAZ	-0.8238131	3.22E-69
ARF6	-0.6964692	7.73E-69
PRKDC	0.6614071	9.53E-69
NARS	0.60693795	9.83E-69
CBX3	0.62336677	1.17E-68
VAMP8	0.60132389	1.37E-68
RNASE3	0.45055065	1.46E-68
R3HDM4	-0.6018552	1.57E-68
AL034397.3	0.58162962	1.58E-68
GAPT	0.66349024	1.96E-68
HCST	-0.9391117	2.78E-68
RSL1D1	0.61595434	3.22E-68
RPS28	0.3603081	3.37E-68
CSNK1A1	-0.6782394	4.31E-68
SH2B3	-0.5997514	4.85E-68
FBXO34	-0.7169805	6.23E-68
CD38	0.57689345	1.07E-67
CAT	0.67701936	2.16E-67
TMEM161B-	0.72449433	2.35E-67
RALGAPA2	0.51707777	3.00E-67
BPTF	0.72538398	3.28E-67
RAC1	-0.5856071	5.32E-67
NAP1L1	0.69496898	8.50E-67
LINC02470	0.49777902	9.24E-67
C11orf54	0.42373154	1.32E-66
SERF2	-0.4831417	1.62E-66
ATP8B4	0.77213898	3.73E-66
CTR9	0.74448095	4.17E-66
TENT5A	0.55034298	8.85E-66
EZR	-0.8644081	2.20E-65
TP53	0.38162827	2.22E-65
SYNJ2	-0.7996188	5.34E-65
CD84	0.57809704	7.37E-65
CBX1	0.37186455	8.43E-65
RHOA	-0.6580268	1.31E-64
CYTH4	-0.7010823	1.51E-64
TIPARP	-0.815914	1.66E-64
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OMA1	0.31449344	2.92E-64
JUN	-1.193584	4.58E-64
LSP1	-0.7621611	4.64E-64
ALOX5AP	-0.7016797	5.32E-64

CDH26	0.31467911	9.20E-64
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MZB1	-0.7643753	2.25E-63
PLXDC2	0.57189016	2.78E-63
SGMS2	-0.5241783	3.20E-63
MT-ND3	0.55997443	3.22E-63
GNAI2	-0.6346656	3.71E-63
SPINK2	-0.754124	4.91E-63
TPPP	-0.4170585	6.53E-63
JMJD1C	-0.7956556	6.82E-63
RIPOR2	-0.6633149	7.30E-63
ZSCAN18	-0.558345	1.04E-62
ZNF66	0.3753942	1.09E-62
UPP1	-0.6251533	1.26E-62
C16orf54	-0.5636699	1.39E-62
DYNLT1	-0.591388	1.52E-62
AC244502.1	0.98911547	1.69E-62
CENPJ	0.47801633	2.14E-62
S100A10	-1.1494807	3.20E-62
PLP2	-0.6809263	5.29E-62
MAP7D1	-0.6241055	5.78E-62
SAMHD1	-0.5664814	6.33E-62
NPDC1	-0.6359328	7.79E-62
PPP3CA	0.5219	8.21E-62
GATD3A	0.40600984	8.86E-62
CMTM3	-0.6813344	1.11E-61
EXOSC5	0.38911419	1.54E-61
ACTN1	0.56560175	3.07E-61
RCS1	0.50855888	3.53E-61
NINJ1	-0.6921484	3.89E-61
ELMSAN1	-0.7213132	5.39E-61
CD96	0.69873204	8.66E-61
YWHAQ	-0.5296341	9.98E-61
CYTH1	-0.7096039	1.06E-60
PNISR	0.59964212	1.12E-60
GSN	-0.6471872	1.57E-60
RBM12B	0.42491705	2.31E-60
NOL8	0.52921155	3.92E-60
ODF3L1	-0.3295742	4.26E-60
RELL1	-0.7014424	5.09E-60
LGALS1	-1.559372	5.31E-60
CHCHD2	-0.5033848	6.09E-60
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CYTOR	-0.7095258	7.99E-60
HIPK1	-0.6285611	8.86E-60
RPL41	0.32568444	1.10E-59
KLF13	-0.6685914	1.18E-59
TMOD3	-0.5456386	1.46E-59

STAT1	0.41928879	1.52E-59
RHOG	-0.6499176	3.47E-59
THEMIS2	-0.6086422	3.78E-59
SPART	0.71432075	4.51E-59
PTP4A3	-0.5558287	4.95E-59
MTSS1	-0.4117939	7.44E-59
RPL15	-0.3880319	8.41E-59
PIM1	-0.7360319	1.24E-58
CFL1	-0.5908045	1.25E-58
CDC42	-0.5538094	1.31E-58
H3F3B	-0.8404185	1.45E-58
BCL3	-0.5968088	1.63E-58
ZNRF1	0.44115441	1.76E-58
HSP90B1	-1.086205	2.08E-58
SNX2	-0.6194247	2.10E-58
ARL4A	-0.6485114	2.47E-58
CYTIP	-0.6309972	3.71E-58
RPL23	0.50649505	4.70E-58
G3BP2	-0.63612	4.78E-58
CSRNP1	-0.5374179	4.90E-58
IFFO2	-0.4990381	5.05E-58
ASAH1	0.77253679	6.03E-58
TRIM73	0.46514366	6.36E-58
SET	0.54756166	6.72E-58
FTX	0.70136687	8.59E-58
MFSD1	0.54961003	1.02E-57
SRSF3	0.61357772	1.08E-57
ETF1	-0.6783039	1.64E-57
PPP1R18	-0.5680168	2.06E-57
GAS2L1	-0.3380015	2.07E-57
MDK	-0.7215902	2.30E-57
TUBB	-0.7745298	3.01E-57
GNAI3	-0.5423482	3.24E-57
PLPPR3	0.62929609	3.66E-57
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ZBTB43	-0.5822644	3.85E-57
TSEN34	-0.5627648	5.40E-57
SMC2	0.44501494	6.40E-57
TASOR	0.42759447	1.79E-56
CAPZA2	-0.5965556	1.92E-56
RILPL2	-0.6670998	2.40E-56
RPLP2	0.31362797	2.91E-56
RPL30	0.32799883	3.31E-56
MTRNR2L8	0.51873569	3.44E-56
ZBTB44	0.56359957	4.58E-56
NPTX2	-0.427179	4.84E-56
TMBIM4	0.5720632	5.74E-56
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NPC2	0.54679448	6.21E-56
NCF4	0.61980701	8.55E-56



SRSF7	0.67928953	1.03E-55
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C16orf74	0.33429027	1.44E-55
CFD	1.44848675	1.83E-55
AHR	-0.6304411	1.98E-55
IL1RAP	-0.6602295	3.01E-55
PARP4	0.44837764	3.07E-55
MTIF3	0.54576627	3.56E-55
TSTD1	-0.6180974	6.18E-55
WTAP	-0.6237599	6.91E-55
RPS21	0.34874188	7.29E-55
APAF1	0.34386366	8.34E-55
BIN1	-0.5183095	9.35E-55
SIK3	-0.5600025	9.40E-55
HIST1H4C	0.45046912	1.72E-54
LUC7L3	0.56820822	1.81E-54
WASHC1	0.44051304	1.99E-54
TTC3	0.68332996	2.79E-54
CDKN2D	-0.6083945	2.91E-54
WDFY2	-0.6644279	3.74E-54
ANTXR2	-0.63814	5.61E-54
PIGM	0.35370937	5.69E-54
KPNA4	-0.4954174	7.00E-54
UBE2N	-0.4696156	8.78E-54
NAMPT	-0.7531864	1.37E-53
ADAM17	-0.6651494	1.70E-53
SOCS3	-0.5223127	1.71E-53
IL1B	0.37911173	2.78E-53
TLE5	-0.547993	3.02E-53
EGFL7	-0.7117309	3.96E-53
KLF10	-0.6854863	4.13E-53
FCER1G	-0.6932999	4.59E-53
MAFF	-0.6196221	5.02E-53
DEPTOR	0.25036107	5.35E-53
GOLGA8R	0.30916071	6.19E-53
CCND3	-0.6159351	7.73E-53
SRSF5	0.50068455	7.96E-53
ARHGDI A	-0.5144051	8.01E-53
DBI	-0.6885679	8.66E-53
KDM6B	-0.6870278	8.93E-53
GOLGA8N	0.35684623	1.50E-52
SAP18	-0.6685033	1.57E-52
DLD	-0.4572061	2.00E-52
COX6B1	0.52557609	2.33E-52
FAM217B	0.33396983	2.50E-52
H19	-0.8199189	2.85E-52
CARD19	-0.5233279	4.93E-52
ZNF737	0.3537126	5.00E-52
PTPRC	-0.6716935	5.17E-52
RABAC1	-0.5387286	6.21E-52

TTC17	0.43976063	6.66E-52
TRAF4	-0.5701537	6.67E-52
WDR12	0.36695977	1.39E-51
SLC35E4	-0.5299522	1.79E-51
PTPRE	-0.7021456	2.22E-51
AC096667.1	0.29770173	2.60E-51
ETFB	-0.527388	2.66E-51
TFG	-0.4429358	2.85E-51
LAMP2	0.53438312	5.13E-51
GAS5	0.53242848	5.21E-51
RBBP4	0.51282673	6.39E-51
Z97192.3	0.38236176	6.43E-51
ATRX	0.66256601	7.17E-51
ASCL2	0.2387863	7.30E-51
RIOK3	-0.5773867	8.29E-51
STK17B	-0.6039626	1.03E-50
PPP4R3B	0.46142831	1.07E-50
PDCD11	0.33297852	1.12E-50
PRDX3	0.44743326	1.39E-50
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TNFRSF1A	-0.4975975	1.92E-50
CNR2	0.30066005	1.97E-50
CNST	-0.6364985	2.98E-50
LMO4	0.53268735	5.87E-50
EDEM3	0.45931444	6.03E-50
TSPAN2	-0.4070613	6.73E-50
TIMP1	-0.6795239	8.26E-50
CITED4	0.30662019	1.11E-49
OIP5-AS1	0.55201478	2.20E-49
BCO2	-0.4905713	2.33E-49
ZNF680	0.27056724	2.40E-49
TMEM63A	-0.4840842	2.75E-49
PSMD12	-0.4424931	2.91E-49
LDHA	-0.6109836	3.41E-49
SMC4	0.66597704	3.83E-49
FUCA1	0.358464	4.02E-49
MAP3K8	-0.6038392	5.84E-49
CKAP2	0.36649424	7.30E-49
ARGLU1	0.60377438	9.29E-49
AGO2	-0.5488434	9.63E-49
TTC1	0.41651919	9.69E-49
UBE2D2	-0.542855	1.00E-48
ARL8A	-0.4502618	1.29E-48
GPR183	-0.8403182	1.52E-48
SPNS3	-0.5352891	1.58E-48
TSG101	-0.4130362	2.13E-48
GOLIM4	0.50064067	2.54E-48
DUSP6	-1.0025327	2.82E-48
H2AFJ	-0.5145425	3.29E-48
HNRNPUL1	-0.5233577	4.79E-48

LRRFIP2	-0.5866882	4.89E-48
CLEC2D	0.22140046	5.20E-48
MRPL34	0.43819287	5.74E-48
GAPDH	-0.4235196	6.88E-48
LRRK1	0.30239198	7.72E-48
S100A4	-1.0603466	7.98E-48
GCSH	0.37322959	8.66E-48
PAK2	0.46190937	8.89E-48
ITM2C	-0.6717356	1.10E-47
HCG18	0.49188063	1.15E-47
CHST12	0.40403766	1.38E-47
ITGA4	0.65000853	1.60E-47
TARBP1	0.47029131	1.63E-47
SYAP1	-0.7814528	2.13E-47
MIB1	0.42092073	2.29E-47
PTPN1	-0.5537686	2.42E-47
AL354733.3	0.24003295	2.66E-47
SETDB2	0.42995777	2.71E-47
CLEC2B	-0.5994896	3.15E-47
DENND11	0.37379695	3.54E-47
ARL4C	-0.4895534	4.17E-47
CYB5A	0.27974532	4.50E-47
AC104083.1	0.2336449	5.16E-47
RARA-AS1	-0.3833336	5.50E-47
ETV6	0.4963417	5.95E-47
RBM28	0.37269078	6.02E-47
PSTPIP2	0.46449906	6.51E-47
GMCL1	0.45857491	8.37E-47
HSPE1	0.61375354	9.33E-47
UBR5-AS1	0.44258269	9.86E-47
EHMT2	0.31182651	1.01E-46
ATM	0.45056494	1.06E-46
YWHAH	-0.5310725	1.20E-46
SOS1	0.36619817	1.71E-46
PRKD2	-0.362484	1.99E-46
VEGFB	0.33615326	2.13E-46
IQGAP1	-0.5555608	2.47E-46
RNASEH2B	0.61057672	2.50E-46
GALNT1	0.44026083	2.51E-46
FCHSD2	0.34337515	2.81E-46
IQCH-AS1	0.24880903	3.08E-46
LINC00342	0.62301144	3.60E-46
PLEC	-0.5899258	4.28E-46
PYGL	0.46206589	5.43E-46
ARHGAP27	-0.5310192	5.50E-46
YTHDC1	0.49210656	5.62E-46
TMA16	0.42855115	7.27E-46
CSNK1D	-0.4662808	9.16E-46
HLTF	0.35097218	1.07E-45
ZNF804A	0.25273918	1.27E-45

PPP1CB	-0.5835629	1.32E-45
SLC20A1	-0.5792477	1.33E-45
TWF2	-0.5166929	1.50E-45
CFP	-0.4207009	1.59E-45
SLC39A3	0.50341361	1.68E-45
PER2	-0.4463266	1.85E-45
EVI2B	0.54100643	2.53E-45
BAIAP2	-0.4504845	2.93E-45
ELF1	-0.6370083	3.03E-45
DENND4A	-0.5484726	3.27E-45
ARHGAP4	-0.4362004	3.89E-45
ST13	0.47253387	4.63E-45
RAD50	0.42476636	4.70E-45
NSA2	0.54919554	5.01E-45
EXOSC6	0.39798891	5.66E-45
LFNG	-0.4825168	5.94E-45
GARS-DT	0.36512357	6.21E-45
KCNE3	0.34876854	6.72E-45
YPEL3	0.48394051	7.10E-45
SUB1	-0.4933681	7.84E-45
SGO2	0.29419454	7.85E-45
GPATCH2	-0.468366	8.24E-45
RHOC	-0.5157534	1.10E-44
SEC61B	-0.4970211	1.12E-44
MRPS26	0.30750467	1.19E-44
AGL	0.26365403	1.24E-44
ACOT7	-0.3457832	1.26E-44
ZMYM4	0.3865584	1.26E-44
SLBP	-0.4115055	1.38E-44
S1PR4	-0.3699272	1.40E-44
PCF11	0.53140737	1.60E-44
ENSA	-0.4515399	1.64E-44
FDX1	-0.423047	2.20E-44
AC092683.1	0.40576851	2.23E-44
TNRC18	0.48907638	2.25E-44
TMX4	-0.6913336	2.34E-44
SPOP	-0.3752171	2.35E-44
IMPA2	0.25708345	3.07E-44
NR3C1	-0.4928003	3.50E-44
ST6GALNAC	-0.4003238	3.53E-44
MAN1A1	0.41704904	3.62E-44
CHD1	-0.6001375	3.80E-44
MITD1	0.38143262	3.98E-44
BOD1L1	0.57391623	4.00E-44
BAALC	-0.5821022	4.20E-44
ARID5A	-0.5085851	4.33E-44
RPL36A	0.3541521	4.95E-44
ADI1	0.41385641	5.75E-44
ARMCX3	-0.5998741	5.93E-44
STRAP	-0.449987	6.54E-44

MCRIP2	0.28436743	8.05E-44
SRSF6	0.58993264	8.64E-44
CASP8	-0.532206	9.40E-44
NDE1	-0.4160869	9.78E-44
TOMM7	0.42823291	1.05E-43
RAB1A	-0.4013122	1.05E-43
IGSF10	0.32240576	1.17E-43
COMMD6	0.43005374	1.25E-43
GPSM2	0.31160773	1.34E-43
JUP	-0.4751726	1.51E-43
TMX1	0.37365041	1.61E-43
TMCC1-AS1	0.31554746	1.69E-43
BMP2K	0.45696776	1.74E-43
SERTAD1	-0.5083785	1.89E-43
SFXN3	-0.4395623	2.00E-43
ZC3H8	0.30529221	2.12E-43
RBM14	-0.497172	2.22E-43
MAP1LC3B	-0.5329168	2.32E-43
TMEM173	-0.4706775	2.34E-43
MOB3A	-0.4640523	3.58E-43
AL021368.2	0.41010532	3.98E-43
ALG8	0.18011692	4.20E-43
HES4	-0.5224448	4.32E-43
LEPROTL1	-0.500181	4.51E-43
ZNF141	0.34656477	5.15E-43
CA5B	-0.4325605	5.30E-43
RPL13A	0.28380308	6.36E-43
HIC1	-0.4334861	6.49E-43
TPPP3	-0.3319023	6.61E-43
TNFRSF4	-0.7147495	7.29E-43
HSPD1	0.58782727	7.35E-43
PRR12	0.23987254	8.61E-43
DMAC1	0.31352167	9.24E-43
HOXA3	0.34674397	9.25E-43
PCMTD2	0.24595919	9.35E-43
PTER	0.21450207	1.29E-42
GOLGA8O	0.23032033	1.43E-42
LRMDA	0.3431264	1.45E-42
ATP2A2	-0.4184103	1.47E-42
APOLD1	0.28482292	1.60E-42
PLCB1	-0.5146646	1.63E-42
PPP6R1	-0.4225643	1.65E-42
AGPAT4	-0.5129637	1.82E-42
LPCAT2	0.6242482	2.16E-42
PRH1	0.22148805	2.49E-42
SARAF	-0.4983728	3.27E-42
HERPUD1	-0.5052043	4.65E-42
CMSS1	0.36216204	4.78E-42
SLC35A1	0.22855832	5.33E-42
NUDT1	-0.4458739	5.48E-42

KANK1	0.22195006	7.15E-42
CYBA	-0.499297	7.69E-42
VPS13C	0.52905761	8.55E-42
C15orf39	-0.4372682	9.69E-42
TNFRSF18	-0.4633804	1.02E-41
PPA2	0.33699615	1.04E-41
PHLDA1	-0.6597785	1.13E-41
CD37	-0.5559847	1.17E-41
POGLUT1	0.25382378	1.56E-41
BUD31	-0.3919105	1.90E-41
PNPT1	0.30150857	2.01E-41
AZU1	1.07642114	2.28E-41
SUDS3	0.22808034	2.34E-41
ARMC10	0.3296715	2.51E-41
NCL	0.52797347	2.72E-41
ABCA1	-0.3865762	2.77E-41
NRDC	0.47666865	2.82E-41
RXYLT1	0.3470553	2.93E-41
P2RY8	0.41477776	3.18E-41
HAT1	-0.3859598	3.70E-41
DAAM1	-0.5628998	3.82E-41
UBE2H	-0.5357236	4.08E-41
ABCC4	0.46339905	4.25E-41
RHOF	-0.457836	4.34E-41
ZSWIM7	0.34758384	5.14E-41
ANXA11	-0.4027883	5.59E-41
SPNS2	-0.4957706	7.44E-41
PHF14	0.4297929	7.65E-41
NUP42	0.30592131	8.46E-41
DLEU1	0.27177388	9.11E-41
ISOC2	0.25245273	9.42E-41
PPM1F	-0.3911713	1.02E-40
PCNA	0.06907133	1.07E-40
BRD7	0.45819573	1.18E-40
RRAGC	-0.394476	1.19E-40
RPL18A	-0.4424739	1.23E-40
AHSA1	0.29068033	1.25E-40
GPR27	0.30405613	1.29E-40
STOML3	-0.2589197	1.41E-40
LYRM7	0.40563125	1.56E-40
OCLN	0.29572835	1.74E-40
AK2	0.4740107	1.75E-40
HLA-C	-0.5735943	2.27E-40
SLC9A3R2	-0.5888081	2.50E-40
STAB1	0.43521658	2.53E-40
DUSP14	-0.4205599	2.81E-40
STARD4-AS	0.23804696	3.48E-40
LINC00926	0.21654448	3.75E-40
MT-ND2	0.44750305	3.79E-40
ACADM	0.42734197	4.03E-40

LINC00996	0.27359048	4.44E-40
OPN3	0.24525757	4.79E-40
MDN1	0.35446382	5.83E-40
CD300A	-0.4311023	6.41E-40
CMTM6	-0.4812539	7.33E-40
HLA-B	-0.5731347	7.80E-40
MANBA	0.36488385	8.02E-40
NT5C	-0.4187658	8.48E-40
PA2G4	0.52517069	8.58E-40
NUFIP2	0.50541541	8.99E-40
CKS2	0.28555584	1.05E-39
NSF	0.24976174	1.23E-39
HTR1F	0.24101942	1.41E-39
ZNF706	-0.4085254	1.45E-39
NEK9	0.1984628	1.50E-39
ATF3	-0.4680496	1.51E-39
CREB1	0.36159664	2.15E-39
CREBZF	0.32468376	3.01E-39
TMEM106B	0.31459987	3.11E-39
MRPS34	0.37378815	3.12E-39
BCL7B	-0.384161	3.70E-39
N4BP3	-0.3030482	3.96E-39
MTAP	0.2906581	4.39E-39
PDGFA	-0.3851197	4.63E-39
SVIL	-0.6000259	5.47E-39
VPS37B	-0.4500636	5.95E-39
UBAC1	0.21321365	6.23E-39
DENND6B	-0.429822	6.62E-39
UBE2D1	-0.4743703	6.80E-39
INKA1	-0.4596347	7.19E-39
PPP1R3E	0.34331282	7.50E-39
PDCD10	-0.4033523	7.74E-39
FAM177A1	-0.3571264	8.44E-39
RHEX	0.65824893	8.92E-39
TRA2B	0.54254375	1.02E-38
RNF126	-0.3392245	1.08E-38
TESPA1	0.45452135	1.15E-38
R3HDM2	0.4423998	1.18E-38
CKS1B	0.08918227	1.19E-38
GGCT	0.38186069	1.33E-38
PCBP1-AS1	0.29963527	1.34E-38
LACC1	0.32429495	1.49E-38
POLR2H	0.23621401	1.53E-38
AC005670.3	0.32926382	1.53E-38
DPYSL3	-0.2732731	1.67E-38
ZNF302	0.31489457	1.82E-38
TNFAIP2	-0.595829	2.19E-38
NREP	0.39705834	2.32E-38
LINC01409	0.24068514	3.33E-38
SLC35E2A	0.25565156	3.73E-38

TXNDC5	0.39224502	3.73E-38
CKLF	-0.7040361	3.79E-38
REXO2	0.31581939	4.12E-38
POLR3K	0.20973095	4.30E-38
CCN3	-0.3017872	4.44E-38
PSMG4	0.20287828	4.59E-38
PPP2CA	-0.3768363	4.88E-38
PDLIM2	-0.3746072	5.08E-38
AGPAT2	-0.3210446	5.12E-38
SDHAF3	0.2192507	5.14E-38
HOMER3	0.37014346	6.68E-38
TRIM25	0.23748351	7.59E-38
NOP56	0.46980239	8.15E-38
ZBTB20	0.54936087	8.48E-38
SMC1A	0.32176078	8.70E-38
MALT1	-0.3993893	9.38E-38
IL2RA	-0.5217613	9.38E-38
CD81	0.41563816	1.06E-37
ZNF891	0.28172164	1.09E-37
TNFRSF1B	-0.4179556	1.20E-37
EGR1	0.50730669	1.24E-37
DCTN6	-0.394063	1.26E-37
CDK6	0.4928239	1.26E-37
RSRC2	-0.5012935	1.42E-37
SKAP2	0.49767185	1.50E-37
PDXK	-0.3385889	1.54E-37
WDR3	0.22885903	1.55E-37
SNAI3	-0.4394156	1.65E-37
NOLC1	0.31664472	1.93E-37
ADPRHL2	-0.2363282	1.94E-37
CIAO2A	0.30283292	1.94E-37
SERPINE1	-0.3970334	2.26E-37
WDR70	0.35114716	2.29E-37
CFAP126	-0.2004369	2.48E-37
HSP90AB1	0.39234963	2.55E-37
KIF9	-0.4027681	2.57E-37
DDX10	0.30610775	2.64E-37
NTPCR	0.26630125	2.68E-37
CREG1	0.48957062	2.72E-37
UBE2V2	0.2836283	2.91E-37
CORO1C	-0.4508069	2.94E-37
FAM111A	0.31626877	3.43E-37
UQCRFS1	-0.3986275	3.49E-37
AKIRIN2	-0.4039419	3.50E-37
PSMB1	-0.4196938	3.68E-37
SUMO3	0.3005875	4.03E-37
ZFPM1	0.18218738	4.20E-37
HLA-DPA1	-0.5966477	4.58E-37
RRP12	-0.5146275	4.90E-37
RPL12	0.30303527	4.98E-37



ECHDC1	0.28485595	5.57E-37
ZMAT5	0.25247846	5.76E-37
HIST2H2BE	-0.5064936	6.15E-37
ME2	0.35116188	6.44E-37
XYLT1	0.22486037	7.32E-37
EIF5	-0.5187415	7.35E-37
SNHG25	0.35050672	7.66E-37
FMC1	0.28276665	7.69E-37
RBM17	-0.38888	1.04E-36
WASF2	-0.4788275	1.05E-36
NR1H2	-0.3434461	1.09E-36
EPM2AIP1	0.39005169	1.20E-36
PRKCQ-AS1	0.26760023	1.32E-36
POLE3	0.30884911	1.50E-36
MAPKAPK3	-0.3687337	1.93E-36
PRRG4	0.28161311	2.10E-36
WRNIP1	0.25427347	2.11E-36
MCPH1	0.21791065	2.27E-36
EMC3	-0.375686	2.33E-36
TOP1MT	0.30274538	2.65E-36
ARL5A	0.31922137	2.65E-36
LRRC75A	0.84821096	3.35E-36
FRAT2	0.21517789	3.63E-36
HDDC2	0.2777385	3.67E-36
CCDC6	-0.3550793	4.05E-36
FAM120A	0.37284104	4.06E-36
ENDOG	0.24530389	4.09E-36
CD302	0.4675068	4.11E-36
CAPNS1	-0.3705517	4.21E-36
ARL6IP1	0.43563402	4.54E-36
RPL22	0.25366721	4.70E-36
KCNK17	-0.3737008	4.88E-36
ABRAXAS1	0.25293721	4.89E-36
TMEM131	0.34286397	5.12E-36
ERGIC1	-0.3525549	5.19E-36
KAT6B	0.36277255	5.64E-36
PDCD4	0.50955304	5.72E-36
ADRB1	0.25455865	5.81E-36
ALDOA	0.33823301	6.12E-36
ARG2	-0.2440479	6.37E-36
UTP3	0.32554615	6.46E-36
DDIT4	-0.7759737	7.03E-36
IGHM	-0.6262608	8.20E-36
INKA2	-0.3167789	8.26E-36
PCYOX1	0.20583877	9.01E-36
TNFAIP8	0.55662482	9.49E-36
DNMT1	0.32415907	9.76E-36
FMNL1	-0.4057882	9.98E-36
DCTN3	-0.278569	1.27E-35
TERF2	-0.3107813	1.28E-35

DDX18	0.44697212	1.38E-35
TMX3	0.25807634	1.41E-35
CRLS1	0.16384256	1.42E-35
SMIM12	-0.2530326	1.50E-35
ACIN1	0.34186429	1.56E-35
HADHA	0.39176053	1.57E-35
TFAP4	0.16836993	1.67E-35
TNFSF13B	0.51630848	1.73E-35
CELF1	-0.4424132	1.96E-35
SEC14L1	-0.3666834	2.05E-35
PTPRA	0.36662341	2.16E-35
ZNF605	0.23181741	2.17E-35
GRK2	0.33028611	2.29E-35
PRKACB	0.5552489	2.31E-35
BRI3BP	0.38409632	2.35E-35
AC007384.1	-0.3740951	2.40E-35
LTB	-0.6495926	2.44E-35
TBCA	0.4796246	2.54E-35
CCDC66	0.25684431	2.56E-35
FAM122C	-0.3569966	2.72E-35
NT5DC1	0.20197131	2.77E-35
KRCC1	0.32101114	2.87E-35
AC026471.4	0.16500295	3.00E-35
POP5	0.26597297	3.11E-35
SLC39A10	0.40458712	3.27E-35
AKIRIN1	-0.3374896	3.66E-35
PIN4	0.27142341	3.86E-35
PAXIP1-AS1	0.20226124	4.05E-35
NDUFAF2	0.26687245	4.13E-35
RNF130	0.48371972	4.51E-35
ZNF770	0.25253931	4.72E-35
ADGRG1	-0.4810001	5.13E-35
TRADD	0.14185026	5.50E-35
ATF4	-0.4789425	5.50E-35
NCOA4	0.49209658	5.54E-35
SKI	0.21727344	5.59E-35
NOP14	0.27536444	5.76E-35
HIST1H1C	-0.9008035	6.18E-35
USP14	-0.4029549	6.47E-35
VPS41	0.25268461	7.31E-35
AGPAT5	0.32947276	8.50E-35
ZNF431	0.51454309	8.63E-35
PIK3CB	0.29206809	8.67E-35
SUPT16H	0.42354614	8.98E-35
CAMKK2	0.28936824	1.19E-34
SAMD9	0.2436484	1.20E-34
SDCBP	-0.4361988	1.21E-34
FAHD2A	0.17371829	1.21E-34
GRN	0.42787836	1.26E-34
WDR1	-0.4055254	1.30E-34

CFAP36	0.49193838	1.33E-34
MAT2B	0.30157585	1.33E-34
TNFRSF14	0.26873099	1.44E-34
CD2BP2	-0.2686509	1.49E-34
ALDH3B1	0.2377579	1.54E-34
SPINT2	-0.434893	1.59E-34
FIRRE	0.24985275	1.76E-34
EVA1B	-0.533964	1.77E-34
SMIM26	0.44019779	1.80E-34
MORF4L2	-0.3918882	1.81E-34
MIR22HG	-0.3768916	1.87E-34
APEX1	0.44178425	2.04E-34
SMIM19	0.26275469	2.08E-34
TMUB1	-0.2367677	2.57E-34
EIF2S3	0.45918726	2.58E-34
PARN	0.18933497	2.80E-34
TPCN1	0.19840403	2.80E-34
PPP4C	-0.2610316	3.18E-34
MAP1S	-0.3603957	3.40E-34
SMAD3	-0.4106882	3.59E-34
CYHR1	0.1453335	3.61E-34
VPS36	0.39832443	3.81E-34
SSH2	-0.3186235	4.07E-34
GOLGA8M	0.1241868	4.09E-34
RUNX3	-0.6649249	4.14E-34
C1orf162	0.44215448	4.16E-34
THYN1	0.24227594	4.48E-34
RPL36	0.27760395	4.80E-34
FKBP1A	-0.401556	5.09E-34
TREML2	-0.2266026	5.10E-34
THUMPD1	0.43378318	5.34E-34
VPS53	0.19126208	5.34E-34
TCF7L2	-0.421613	5.42E-34
BHLHE40	-0.5708044	5.71E-34
MTMR6	-0.3454016	5.91E-34
TBCB	-0.2628773	6.02E-34
WASIR1	0.14716291	6.07E-34
CLPTM1L	0.21718809	6.07E-34
METTL7A	0.2691589	6.41E-34
FAM216A	0.25248891	6.51E-34
ZNF493	0.35133005	6.52E-34
EIF2AK1	0.38082218	6.90E-34
MRPL15	-0.3093799	7.03E-34
NFKBID	-0.4253665	7.73E-34
MGA	0.34338199	8.32E-34
Z83843.1	0.3125532	9.56E-34
PSMA6	-0.4205256	1.01E-33
NPIP4	0.18598702	1.11E-33
PAQR8	-0.3492511	1.15E-33
MSI2	0.62573365	1.16E-33

CEP63	0.37416927	1.35E-33
CSK	-0.3032555	1.41E-33
SBDS	-0.4051082	1.42E-33
VPS26A	-0.2822762	1.50E-33
QSOX1	0.24270244	1.52E-33
DBP	0.18345905	1.55E-33
CCDC144A	0.31530889	1.61E-33
KANSL1L	0.22063195	1.79E-33
KCNN4	-0.3887418	1.88E-33
APBB1IP	0.37897039	1.99E-33
AC090559.1	0.43237744	2.05E-33
U2SURP	0.4266526	2.18E-33
DHX40	0.21314231	2.23E-33
NHLRC2	0.31662362	2.40E-33
H6PD	0.17616428	2.40E-33
RNF7	-0.4078129	2.55E-33
GSEC	0.16318806	2.78E-33
SLC25A19	0.18721822	2.86E-33
DDX55	0.23412796	2.95E-33
STXBP4	0.18601866	2.97E-33
NFKBIA	-0.9491557	3.24E-33
RNF44	0.22944686	3.25E-33
GUK1	-0.3377141	3.91E-33
TACC3	0.24275695	4.00E-33
EMID1	0.20404658	4.12E-33
CDK9	-0.3380903	4.20E-33
AL450998.2	0.21274402	4.54E-33
GRK3	0.21586572	4.64E-33
SMAD5	0.27293334	4.67E-33
RGS19	-0.4948077	6.06E-33
UBE2A	-0.3286283	6.13E-33
DDX46	0.42422281	6.44E-33
SMARCAD1	0.25115275	7.14E-33
SRM	0.40466855	7.27E-33
TCAIM	0.24371247	7.30E-33
COPRS	0.1888101	7.48E-33
GLUL	-0.6454601	7.50E-33
SLC39A11	0.16720177	7.60E-33
TSSC4	-0.2049183	8.96E-33
TMEM251	0.16903598	9.85E-33
PAFAH1B2	-0.3253229	1.01E-32
CCDC12	-0.3762214	1.08E-32
NMI	0.36006278	1.12E-32
ATP2B4	0.26504365	1.13E-32
ZNF138	0.2235286	1.22E-32
ZRANB2	0.48473157	1.24E-32
USP4	-0.2833463	1.28E-32
TRAF5	-0.4160838	1.41E-32
SLC25A46	0.24268075	1.55E-32
OSER1	-0.241347	1.56E-32

OTUD6B-AS	0.30045076	1.62E-32
PTPN6	-0.4976453	1.64E-32
METAP2	0.4152693	1.82E-32
GTF2H2C	0.17766929	1.92E-32
ITGB1	0.25865716	1.94E-32
PIGF	0.22481742	1.95E-32
HP1BP3	0.41095963	2.03E-32
ARF1	-0.452891	2.08E-32
SPAG9	-0.4298882	2.20E-32
CD58	-0.4388751	2.20E-32
ARHGAP30	-0.411339	2.33E-32
RAB5A	-0.3548939	2.34E-32
MLF2	-0.3107131	2.78E-32
DNTTIP1	-0.2466679	3.04E-32
MRPL3	0.35253679	3.25E-32
XAF1	0.35361211	3.31E-32
PSMG1	0.15161963	3.61E-32
NMNAT3	0.16788638	3.72E-32
TTC14	0.38175541	3.72E-32
DOCK10	0.26132662	3.81E-32
DGKD	-0.3417781	3.87E-32
BLOC1S2	-0.2817986	4.05E-32
GNL3L	0.23122531	4.22E-32
ATIC	0.28483086	4.27E-32
MRPS31	0.29786647	4.40E-32
NXT2	0.23573053	4.56E-32
ARID3B	-0.3370941	5.06E-32
CNBP	0.38799433	5.15E-32
ATG101	-0.2778418	5.20E-32
ANO6	0.2009318	5.30E-32
PYURF	0.35992703	5.94E-32
ACTR1B	-0.3327144	7.02E-32
C11orf68	-0.2171116	7.65E-32
SCAND1	-0.3540333	7.79E-32
DDX1	0.30188381	8.57E-32
ARL11	0.25359929	8.67E-32
MYCBP2	0.4601664	9.00E-32
CENPX	0.19990258	9.25E-32
M6PR	0.37823952	9.30E-32
ADK	0.35750719	9.67E-32
KRT10	0.3390173	9.85E-32
SLC30A9	0.21905017	9.97E-32
TBC1D5	0.33563182	1.04E-31
NUDT4	0.18286428	1.12E-31
GRK6	-0.268668	1.12E-31
SELENOK	-0.2646196	1.14E-31
ALG3	0.13714574	1.22E-31
PPIB	-0.4526098	1.24E-31
FLYWCH2	0.16169244	1.27E-31
KRIT1	0.14906725	1.31E-31

SOD2	-0.5318999	1.39E-31
TTF2	0.20715632	1.40E-31
NSD1	0.26699321	1.43E-31
PET117	0.15099008	1.45E-31
TRIB1	-0.3645136	1.45E-31
SLC39A4	0.22104948	1.47E-31
TMEM80	0.16714081	1.50E-31
ATP6V0A2	0.3868928	1.50E-31
DNAJB11	-0.3075516	1.53E-31
TMA7	0.33995114	1.55E-31
SIGIRR	-0.3009514	1.62E-31
RAB14	-0.398415	1.63E-31
UBE2J1	-0.4419185	1.64E-31
RUVBL1	0.25413241	1.64E-31
GNG7	0.1802829	1.93E-31
CPSF2	0.27029075	1.95E-31
FAM228B	0.2126751	2.00E-31
ENTPD1-AS	0.16133921	2.04E-31
ARPC1A	-0.2686188	2.26E-31
COX15	0.13590214	2.42E-31
RRP9	0.14539807	2.51E-31
OCEL1	0.1871114	2.53E-31
SH3BP2	-0.4741738	2.67E-31
FAM210B	0.25770258	3.11E-31
GPATCH11	-0.4148099	3.28E-31
ATRN	0.16226595	3.73E-31
SLC43A3	-0.3552513	4.19E-31
TMCO1	0.39910732	4.23E-31
NRROS	0.06516747	4.48E-31
COMMD9	0.233016	4.48E-31
MRPL54	-0.2545425	4.60E-31
GLB1	0.1598275	4.61E-31
SYNE3	-0.4356416	4.72E-31
TMPO	0.30735745	4.81E-31
FHL1	-0.2860961	4.92E-31
IL12A-AS1	0.31823052	4.96E-31
CTNNB1	-0.4820023	4.99E-31
ZBTB16	0.44106187	5.20E-31
DEAF1	0.22445211	5.26E-31
HSD17B12	0.32218421	5.32E-31
SMIM8	0.24056646	5.36E-31
COA6	0.25654162	5.78E-31
THOC3	0.21734721	6.02E-31
ZNF480	0.22569096	6.35E-31
RNF11	-0.3204718	6.37E-31
ZMPSTE24	0.14418485	6.99E-31
CETN3	0.15066779	7.04E-31
CD53	-0.4659003	7.37E-31
VASP	-0.5096073	7.88E-31
RSAD1	0.14505582	8.15E-31

CARNMT1	0.23130069	8.21E-31
ASRGL1	0.22102529	8.32E-31
LY75	0.37342636	8.90E-31
N4BP2	-0.4326062	9.15E-31
SEH1L	0.2102059	9.35E-31
HCG11	0.21499849	9.39E-31
MCEE	0.14167312	1.03E-30
TARSL2	0.24877616	1.05E-30
GUCY1A1	0.45198963	1.12E-30
ANXA6	-0.2981276	1.15E-30
LZIC	0.19878461	1.17E-30
MAPRE1	-0.2623923	1.18E-30
OSBPL1A	0.22089058	1.20E-30
TES	-0.5489501	1.24E-30
SNRPE	0.38544699	1.25E-30
MRPS5	0.27555693	1.28E-30
TMEM192	0.25169203	1.32E-30
ARF3	-0.2863478	1.46E-30
MPV17L	0.15676584	1.55E-30
CBR1	0.23466982	1.60E-30
NPIP5	0.20038006	1.61E-30
DCP1A	-0.3339461	1.63E-30
ELP4	0.13963194	1.70E-30
LSM1	-0.1958749	1.72E-30
PCID2	0.23525844	1.78E-30
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EHD1	-0.4275444	1.86E-30
SATB1-AS1	0.28222589	1.94E-30
ORMDL2	-0.3014493	1.94E-30
CSTB	-0.364303	2.07E-30
AC092747.4	0.24717893	2.25E-30
ZDHHC21	0.2782662	2.26E-30
LINC01355	0.17459916	2.42E-30
LINC01252	0.14679125	2.68E-30
TRIM8	-0.390283	2.69E-30
NRX1	-0.4439204	2.74E-30
TOX4	-0.3028705	2.78E-30
RIPK2	-0.3962663	2.81E-30
STX17	0.26275073	2.83E-30
C9orf139	0.39675624	2.88E-30
NUCB2	0.53232084	2.89E-30
PPT1	0.31112455	2.97E-30
CLEC12A	0.29753642	3.08E-30
CTNBL1	0.20639487	3.33E-30
ENTR1	0.22062829	3.76E-30
HOXA6	0.18799357	3.85E-30
AGGF1	0.19596874	3.95E-30
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LAIR1	0.43745806	4.21E-30
PTPN2	0.33432792	4.32E-30

GLUD1	-0.2667669	4.32E-30
DDX39A	0.19224445	4.52E-30
RHOT1	0.24020175	4.52E-30
EIF4A2	0.3733174	4.64E-30
POLR2J3	0.42301056	4.83E-30
EMD	-0.2671798	4.92E-30
NDUFV3	0.28708183	5.01E-30
MCM3AP-AS	0.1555578	5.28E-30
CEBPA	0.51440765	5.35E-30
NAA38	0.35147025	5.57E-30
RECQL	0.24499381	5.82E-30
KTN1	0.44885748	5.88E-30
TFEC	0.37373748	6.10E-30
MFSD14C	0.19485191	6.22E-30
SH3YL1	0.18118204	6.25E-30
QKI	0.36420142	6.39E-30
IDH1	0.30466422	6.87E-30
C1GALT1C1	0.20013205	7.02E-30
INTS8	0.17678257	8.08E-30
TST	0.22796363	8.97E-30
SPG21	0.18030904	8.98E-30
TRIM28	0.17377228	9.47E-30
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SPG11	0.28297474	9.80E-30
LINC00665	0.23542832	9.93E-30
PMS1	0.1960397	9.95E-30
SF3B5	-0.3513859	9.99E-30
MRPS9	0.15243872	1.02E-29
OARD1	0.21512321	1.08E-29
CMPK1	0.27840592	1.08E-29
PLEKHO2	-0.3747331	1.12E-29
SNCA	0.19982107	1.18E-29
MAPKAP1	0.19296056	1.24E-29
OAZ2	-0.3392456	1.25E-29
AC016831.5	-0.3582611	1.26E-29
ANKRD27	0.19999606	1.28E-29
JAML	-0.3330054	1.30E-29
ZNF638	0.38503587	1.30E-29
NFATC2	-0.3131696	1.35E-29
SERINC1	-0.3599892	1.36E-29
ATP6V0C	-0.4408289	1.37E-29
RABEPK	0.12554757	1.40E-29
FOPNL	0.19956506	1.44E-29
APOL1	0.11625287	1.46E-29
HEXD	0.18553887	1.55E-29
TSC22D4	0.08691065	1.59E-29
METAP1D	0.13729962	1.75E-29
BRD3	0.18965078	1.75E-29
PYCR2	0.16696151	1.90E-29
EIF4G3	0.22799937	1.92E-29



NSUN6	0.17557685	1.94E-29
CYB5R3	-0.2808014	1.97E-29
MAPK1IP1L	-0.3836732	2.00E-29
STAU2	0.15268189	2.42E-29
IFITM3	-0.4200258	2.43E-29
MIER1	-0.403308	2.47E-29
PACSIN2	-0.3346349	2.51E-29
AIMP1	0.36013001	2.52E-29
ATG14	0.12883993	2.56E-29
HNRNPA1	-0.3843186	2.57E-29
ZNF117	0.23606841	2.78E-29
PUS7L	0.28044103	2.79E-29
TBCK	0.20435905	2.85E-29
RTF2	-0.2879348	2.88E-29
NDUFA13	-0.3681043	3.03E-29
LLPH	0.29585822	3.07E-29
BMI1	0.29543308	3.14E-29
CORO1A	-0.4596609	3.15E-29
CRTAP	0.27069672	3.26E-29
PBDC1	-0.334966	3.45E-29
MPHOSPH8	0.36723779	3.68E-29
COG2	0.16887414	3.91E-29
EEF1AKNM1	0.17646236	3.93E-29
ZNF708	0.22669362	3.94E-29
GGNBP2	-0.3391014	4.12E-29
CHIC2	-0.2971546	4.66E-29
ATP5ME	0.39144272	4.67E-29
IMP3	0.36064104	4.68E-29
GPX4	0.3619734	4.69E-29
ZNF322	0.17681241	4.71E-29
CSF2RB	0.56270538	4.73E-29
CEP290	0.38259095	4.83E-29
ZCCHC7	0.2986809	4.84E-29
PRKAA1	-0.3965226	5.19E-29
ZNF487	-0.306268	5.60E-29
VPS72	0.11610762	5.66E-29
SAMD1	0.17398517	5.81E-29
GPR132	-0.2941709	5.92E-29
PTPN22	0.21909319	6.02E-29
DEDD2	-0.3523087	6.11E-29
MARCKSL1	-0.5381294	6.13E-29
SNHG30	0.18494092	6.41E-29
MTHFD1	0.14597722	6.42E-29
THOC1	0.24826101	6.71E-29
MCM3	0.07971219	6.79E-29
DGCR6L	0.12924523	6.88E-29
SELENOW	-0.3926889	6.97E-29
PIGN	0.16618978	7.05E-29
ERCC6L2	0.21369078	7.07E-29
ZBTB21	-0.3205534	7.35E-29

FAM174C	0.23694098	7.52E-29
MFSD6	-0.391697	7.54E-29
ACTL6A	0.19633983	7.68E-29
KANTR	0.18191493	7.82E-29
AC025040.1	0.15731482	9.33E-29
REXO4	0.25057285	9.49E-29
TLN1	0.3810722	9.61E-29
SCAMP1-AS	0.14106403	9.77E-29
MPC1	0.22661555	1.05E-28
CD83	-0.4175293	1.06E-28
AC104041.1	0.11628115	1.06E-28
GLMN	0.21205777	1.08E-28
AC068587.4	0.26410398	1.09E-28
IRAK3	0.41699248	1.29E-28
PTPMT1	0.23547308	1.35E-28
FADD	-0.2642832	1.37E-28
THOC7	0.37346427	1.39E-28
PGM2	0.20572925	1.42E-28
BCLAF1	0.35103277	1.45E-28
CCDC107	-0.2466851	1.51E-28
BCKDHB	0.153623	1.52E-28
ABHD10	0.08538558	1.56E-28
PRMT3	0.15774348	1.82E-28
MTR	0.29876936	1.84E-28
SCAMP1	0.18318156	1.88E-28
DNPB1	0.32288829	1.94E-28
IPO8	0.2151322	1.99E-28
NFE2L2	-0.3737442	2.07E-28
NCBP2	0.32502507	2.19E-28
FKBP2	0.15802719	2.23E-28
CEBPG	-0.3195527	2.31E-28
SEC22B	0.24527071	2.33E-28
NFYB	0.22481053	2.41E-28
C15orf61	0.10833529	2.46E-28
EIF3I	-0.3821379	2.46E-28
EIF3E	0.34227199	2.48E-28
MGRN1	-0.2171695	2.65E-28
SCARB1	0.16932413	2.67E-28
KCNAB2	0.338701	2.78E-28
FKBP4	0.24519543	2.80E-28
EGLN2	-0.2591941	2.81E-28
SRBD1	0.22649854	2.87E-28
PPWD1	0.27599366	2.89E-28
CARF	0.18242557	2.95E-28
ARL2	0.19072806	2.95E-28
DPYD	0.1729577	3.13E-28
MTX2	0.16923194	3.20E-28
ARHGEF6	0.30147505	3.26E-28
TOB2	-0.3607305	3.28E-28
AC019205.1	0.14846977	3.29E-28

STX12	-0.2596322	3.40E-28
TXNDC9	-0.1865364	3.48E-28
PPP1R16B	-0.2528423	3.55E-28
TAF12	0.23816561	3.61E-28
TCTN3	0.15782682	3.64E-28
GTPBP10	0.16650379	3.77E-28
SPTSSA	0.20526657	3.82E-28
PM20D2	0.21421826	3.83E-28
SRP9	0.27871436	3.91E-28
SRPRB	0.17183681	4.07E-28
ORC2	0.16459697	4.32E-28
IFITM2	-0.3781125	4.35E-28
NECAP2	-0.273872	4.38E-28
RCN2	0.20161119	4.45E-28
RNF144A	0.2021617	4.89E-28
RPL36AL	-0.3300227	4.92E-28
PGM2L1	-0.328158	5.05E-28
PBXIP1	-0.2851914	5.05E-28
ABRACL	0.43462913	5.09E-28
TNNI2	-0.281252	5.58E-28
AHI1	0.20874833	5.78E-28
CDC42SE1	-0.3502598	5.86E-28
BRD8	0.28987694	5.89E-28
NSUN2	0.07572752	6.29E-28
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FASTKD1	0.21697684	6.55E-28
CDK11A	0.16095939	6.72E-28
MGAT1	-0.3385451	6.78E-28
OSGIN2	-0.3469419	6.96E-28
BAHCC1	0.38849137	7.02E-28
COA3	0.22804776	7.04E-28
ARFGAP2	-0.222146	7.13E-28
ATE1	0.1760175	7.26E-28
FAH	0.2452088	7.63E-28
THOC2	0.37043755	7.72E-28
SLC3A2	-0.3386881	8.13E-28
CCT5	0.36536667	8.28E-28
CDYL	0.23139559	8.73E-28
EAPP	-0.3041257	8.74E-28
RNF19B	-0.3022346	8.80E-28
TRUB2	0.16192076	9.56E-28
PLEKHF1	-0.2850341	9.63E-28
GFI1	0.2596344	1.09E-27
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SSBP3	0.264116	1.15E-27
ITGB3BP	0.23733206	1.17E-27
PIBF1	0.20315581	1.18E-27
FBXO9	0.2152357	1.21E-27
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PDCD6IP	0.34813116	1.30E-27

ELL2	-0.3327745	1.34E-27
TMEM14C	0.37121397	1.35E-27
CDC42EP3	-0.4422119	1.37E-27
PMVK	0.16593916	1.41E-27
C5orf24	0.23989095	1.42E-27
HUWE1	0.26553819	1.43E-27
MIA3	0.27083139	1.50E-27
TMEM189	-0.2049936	1.50E-27
ERMP1	0.18996647	1.51E-27
PPCDC	-0.2837469	1.65E-27
INTS10	0.21874849	1.65E-27
IAH1	-0.2713603	1.68E-27
WDR36	0.1676739	1.71E-27
MAPK1	-0.3534432	1.72E-27
POLR2F	0.26728655	1.75E-27
NUDCD2	0.24461899	1.75E-27
TRPS1	-0.3604156	1.85E-27
USP48	0.32889516	1.89E-27
FAM214B	-0.304161	2.01E-27
HLA-E	-0.4377006	2.02E-27
DUSP23	0.24555851	2.10E-27
CEP41	0.17662495	2.18E-27
SRSF1	0.30814129	2.40E-27
CALM3	-0.2679272	2.52E-27
SLC16A3	-0.3943807	2.67E-27
ASPSCR1	0.12370157	2.69E-27
LRIF1	0.24115076	2.69E-27
STK40	-0.30092	2.74E-27
NBPF19	0.19616831	2.75E-27
PAFAH1B1	-0.3169558	2.89E-27
CWC25	-0.2816155	2.93E-27
TTC37	0.33117218	2.99E-27
IFT27	0.13174274	3.14E-27
RNFT1	0.16416411	3.37E-27
EPRS	0.30558435	3.44E-27
ZMYM3	0.12467729	3.61E-27
DNAJA2	-0.3294618	3.62E-27
CHD2	-0.5046702	3.65E-27
FOSL1	-0.2468022	3.81E-27
PRKAG2-AS	0.15615789	3.94E-27
ACO1	0.14564138	3.94E-27
STAG3	0.12707878	3.96E-27
SLC33A1	0.16740341	3.97E-27
HIKESHI	0.24979082	4.03E-27
CDK2AP2	-0.0869448	4.20E-27
RPL28	-0.2694285	4.38E-27
EHMT1	0.24512621	4.42E-27
MFSD14A	-0.2252297	4.53E-27
ZNF121	0.19089171	4.57E-27
MCM7	-0.0438841	4.57E-27

UBE2L3	-0.3608081	4.63E-27
IRF5	0.15327948	4.68E-27
DPY19L4	0.22222626	4.91E-27
WASHC5	0.14447611	4.93E-27
ADGRA3	0.11514962	5.08E-27
CDS2	-0.2838769	5.17E-27
ZNF397	0.22260458	5.43E-27
PHKB	0.28404035	5.43E-27
ZNF780B	0.16959589	5.44E-27
ZNF622	-0.1918225	5.45E-27
RELT	-0.3372461	5.45E-27
DCXR	0.27401963	5.59E-27
NFKB1	-0.2933622	5.64E-27
FBRS	-0.2079029	5.68E-27
OCIAD1	0.35641981	5.75E-27
AKAP8L	-0.2621665	5.82E-27
RBM27	-0.3165796	5.86E-27
RALY	-0.2685076	5.89E-27
ZNF253	0.18342556	5.91E-27
HENMT1	0.19436105	5.98E-27
ZEB2	0.53770624	6.00E-27
STARD3NL	-0.2106993	6.60E-27
AC005261.1	0.16992995	6.70E-27
GFOD1	-0.422092	6.84E-27
GNS	0.17794184	7.01E-27
STXBP5	0.37395612	7.09E-27
ZNF718	0.14008174	7.39E-27
MAPRE2	-0.3341586	7.54E-27
CDK4	0.17582915	7.59E-27
IER2	-0.6213645	7.68E-27
NRG4	0.27886337	8.23E-27
BAIAP2-DT	-0.2246948	8.23E-27
DHPS	0.17023419	8.61E-27
PLXNC1	0.27741057	8.93E-27
C22orf34	0.13261186	9.66E-27
EXOSC2	0.12570261	9.78E-27
ATR	0.3387435	9.84E-27
STIM2	-0.2393211	9.92E-27
URM1	-0.158088	1.04E-26
TM9SF2	0.26629028	1.10E-26
LDHB	0.35677221	1.11E-26
ITPR2	0.33291618	1.19E-26
RHEB	-0.2653882	1.20E-26
RAB32	0.5259165	1.23E-26
MINCR	0.18264609	1.23E-26
PSMB8-AS1	0.15221293	1.23E-26
TM7SF3	0.44419647	1.26E-26
UQCC2	0.20120612	1.27E-26
SKA2	0.20592345	1.31E-26
MCOLN1	0.12429653	1.40E-26

ADRM1	-0.2021471	1.41E-26
HIBADH	0.16765498	1.43E-26
NSRP1	0.38325866	1.44E-26
CDK19	0.18572173	1.44E-26
DOK2	-0.3818436	1.48E-26
TMEM11	-0.1337068	1.49E-26
GADD45B	-0.4481215	1.53E-26
mars-02	0.09868124	1.53E-26
ACADVL	-0.2313394	1.59E-26
CAMLG	0.45372283	1.61E-26
ACOT13	0.21564325	1.67E-26
DIMT1	0.20998891	1.68E-26
ACOX1	0.12934168	1.70E-26
LNPEP	0.30536971	1.74E-26
NDUFB6	0.28290419	1.76E-26
IGFLR1	0.2344407	1.80E-26
PCMT1	0.28610306	1.83E-26
HDAC3	0.01084095	1.91E-26
SYNC	0.18989854	1.91E-26
PSMF1	-0.1502123	1.94E-26
ZNF511	-0.1442019	1.97E-26
GART	0.26831953	2.01E-26
HELB	0.22577874	2.02E-26
ZNF248	0.16826501	2.06E-26
EFTUD2	0.10881153	2.09E-26
XPOT	0.27764714	2.17E-26
FAM83G	-0.2137313	2.19E-26
PIN1	-0.1438636	2.22E-26
NCKAP1L	0.31236549	2.47E-26
PNMA1	-0.3009372	2.63E-26
SELENOF	0.26461864	2.65E-26
FKBP8	-0.3110841	2.66E-26
AIP	0.01556304	2.69E-26
PIGP	0.2297636	2.74E-26
SAMD4B	-0.21835	2.89E-26
LCOR	-0.2846748	2.91E-26
NBPF14	0.15223684	2.91E-26
STAMBP	0.16853311	2.99E-26
GNA12	0.29506593	2.99E-26
ACTG1	-0.3614134	3.04E-26
RUFY1	0.24982127	3.13E-26
RPARP-AS1	0.28276702	3.17E-26
ATG7	0.15592883	3.19E-26
ZNF26	0.26382218	3.27E-26
NUDCD1	0.16708363	3.28E-26
RAB8B	-0.3674627	3.36E-26
DCTN2	-0.2007948	3.46E-26
SLC5A3	-0.4041046	3.47E-26
CBL	-0.261548	3.49E-26
R3HDM1	0.22839607	3.62E-26

SMIM27	0.27217718	3.63E-26
SH3BP5	-0.2903014	3.74E-26
TIMMDC1	0.23938903	3.77E-26
WASHC2C	0.21486022	3.82E-26
MTIF2	0.2397714	3.89E-26
RPS27L	0.38637934	3.91E-26
TIA1	0.3241025	3.93E-26
N4BP2L2	0.4338013	4.07E-26
NARS2	0.13060118	4.31E-26
TCP1	-0.2593767	4.34E-26
SNRPD3	0.30682948	4.51E-26
TTN	0.10563367	4.59E-26
FAM172A	0.14107829	4.62E-26
PGRMC2	0.21877663	4.72E-26
GRPEL1	0.1555833	4.98E-26
DPH5	0.13405421	5.12E-26
ZNF439	0.17737254	5.18E-26
PECAM1	0.29617178	5.21E-26
MTHFS	0.17693646	5.27E-26
PLEKHJ1	-0.1827706	5.48E-26
PAM16	0.22153709	5.52E-26
ZMYM1	0.13367611	5.78E-26
PMS2	0.18460576	6.04E-26
FOXO3	-0.2936881	6.34E-26
EIF4H	-0.3212471	6.35E-26
SF3B3	0.19084631	6.68E-26
TCAF1	0.21946675	6.80E-26
TFPI	-0.4659557	6.83E-26
MRPS33	0.34336986	6.88E-26
ZNF814	0.19749205	6.92E-26
ABCG1	-0.2948183	7.01E-26
TUBGCP4	0.18483218	7.13E-26
ALPK1	0.15165445	7.39E-26
PRMT2	-0.2807796	7.41E-26
TNIP2	-0.1871373	7.41E-26
PPIL3	0.09847601	7.55E-26
LDLR	-0.3360241	7.84E-26
BDH2	0.15939491	8.03E-26
ARL17A	0.1376122	8.03E-26
TAF1	0.15692332	8.23E-26
CHROMR	0.24612376	8.30E-26
FES	0.1655555	8.37E-26
GCA	0.19092103	9.04E-26
SMIM30	0.19124556	9.06E-26
SELENOT	-0.2868267	9.46E-26
ARF4	-0.3444468	9.48E-26
TMEM245	0.20880135	9.49E-26
TINF2	-0.2506078	9.81E-26
IFNGR2	-0.1772552	1.04E-25
NPTN	0.09002395	1.06E-25

ERV3-1	0.24700038	1.06E-25
PRPF8	0.27501636	1.07E-25
SEC23IP	0.17087817	1.14E-25
ACY2	0.15960254	1.18E-25
DERA	0.10257973	1.21E-25
IP6K2	-0.286738	1.32E-25
POLR3H	0.12876592	1.34E-25
CCM2	-0.3043813	1.35E-25
FAM207A	0.08412288	1.45E-25
LAP3	0.14464657	1.51E-25
PHF7	0.17599582	1.54E-25
UGGT1	0.17261267	1.58E-25
NDUFAF8	0.26103755	1.69E-25
LNPK	0.16503997	1.71E-25
AGTRAP	0.20011487	1.72E-25
NOTCH2	0.19161022	1.74E-25
MTOR	0.09489735	1.76E-25
ARL6IP6	0.06712474	1.78E-25
COA1	0.20084513	1.79E-25
ATF1	0.12992406	1.83E-25
IFRD2	0.15938805	1.85E-25
ERLIN1	0.25924646	1.85E-25
MCM3AP	0.19802909	1.91E-25
PHACTR2	0.26666271	1.92E-25
UTP18	0.17274651	1.92E-25
NEDD9	-0.3941597	1.92E-25
ODC1	-0.301421	2.04E-25
ANAPC13	0.16488874	2.06E-25
WIPI2	-0.2163534	2.15E-25
SCP2	0.3351521	2.22E-25
EIF4EBP1	0.01531633	2.26E-25
JOSD1	-0.2269994	2.29E-25
EBNA1BP2	0.22047883	2.30E-25
PIGX	0.19719209	2.33E-25
ZEB1	-0.3817869	2.36E-25
LINC00667	0.16971881	2.36E-25
EBAG9	0.15059281	2.40E-25
C6orf226	-0.2662763	2.58E-25
PRDM16	0.23250818	2.59E-25
TRMT13	0.22628158	2.67E-25
DHRX	0.12430861	2.67E-25
ADAT2	0.14369239	2.84E-25
SNRNP40	0.1253528	2.97E-25
AC142472.1	0.15469071	3.04E-25
TMEM168	0.18127699	3.11E-25
ERAP1	0.15762097	3.13E-25
ABHD14A	0.12222193	3.15E-25
COX4I1	-0.363456	3.26E-25
MRPL57	-0.4090102	3.32E-25
POLR3GL	0.26333706	3.45E-25



LARP1	0.32405545	3.49E-25
NUDT16L1	-0.2869501	3.55E-25
DMTF1	-0.2256145	3.67E-25
GAS7	-0.2979246	3.71E-25
ZNF32	0.15299997	3.76E-25
TSGA10	0.18197664	3.81E-25
ARHGEF2	-0.27632	3.84E-25
GANAB	0.15896353	3.90E-25
ANXA2	-0.4344336	3.93E-25
NGDN	-0.028588	3.95E-25
SCNM1	-0.0339888	4.08E-25
ZNF83	0.16342699	4.22E-25
KIAA0100	0.20193736	4.30E-25
SNHG20	0.18181041	4.32E-25
MAN1A2	0.31339442	4.34E-25
CLCN7	0.20658343	4.50E-25
INPP5B	0.0507805	4.76E-25
EXOSC8	0.15515095	4.96E-25
RBIS	0.36694704	5.03E-25
ALAD	0.13590258	5.16E-25
C12orf45	0.30788435	5.30E-25
HBP1	-0.2811482	5.32E-25
SREBF1	-0.261431	5.35E-25
SMC6	0.19033394	5.37E-25
STRBP	0.2502546	5.45E-25
DHRS4	0.1235995	5.46E-25
MED10	-0.276387	5.49E-25
ILF3-DT	0.19046659	5.67E-25
SUCLG2	0.16763259	5.87E-25
RPL8	-0.3297323	5.96E-25
UBE3D	0.14585401	6.52E-25
HNRNPUL2	0.21588526	6.56E-25
RNF145	-0.2353054	6.56E-25
FBXW11	-0.183737	6.63E-25
NLN	0.16879102	6.64E-25
RTCA-AS1	0.25365158	6.69E-25
THAP5	0.22133055	6.89E-25
PNPLA8	-0.2704047	7.11E-25
LINC01278	0.14273525	7.12E-25
REPIN1	-0.1941257	7.20E-25
NDUFB3	0.27095477	7.21E-25
ARFGAP3	-0.3082867	7.23E-25
ADGRE2	-0.4104027	7.30E-25
LIAS	0.1530208	7.34E-25
MYL12A	-0.373	7.35E-25
TAF9	-0.4629003	7.36E-25
VPS33A	0.04203095	7.36E-25
USP6NL	-0.3712143	7.48E-25
MAPKAPK2	-0.2454257	7.59E-25
TEX30	-0.2725737	7.81E-25

CD68	-0.3591056	8.39E-25
FBXO25	0.16954278	8.40E-25
BLOC1S5	0.1902547	8.94E-25
CHCHD7	0.29873604	9.12E-25
TMEM208	-0.2280039	9.56E-25
PSMD7	-0.2778321	9.68E-25
PML	-0.1723306	9.74E-25
YPEL2	-0.2970527	9.77E-25
PIGS	0.13033935	1.02E-24
PDCD2	0.2624543	1.02E-24
FBXO11	-0.2437538	1.03E-24
YRDC	0.14010104	1.05E-24
SSR1	0.34309147	1.13E-24
HDAC2	0.28419358	1.17E-24
CDC123	-0.2573966	1.19E-24
EIF3B	0.23469343	1.20E-24
GSK3B	0.16983727	1.21E-24
HIST1H2BC	-0.349951	1.22E-24
PDCL3	0.17051241	1.23E-24
SNHG32	0.41293842	1.27E-24
ADD1	-0.3348678	1.29E-24
MKNK2	-0.3401718	1.30E-24
LINC01410	0.11419461	1.31E-24
ZC3H4	0.19137273	1.35E-24
PIGBOS1	0.20021163	1.38E-24
DIPK2A	0.13392104	1.42E-24
LARP4	0.16798762	1.45E-24
CBWD1	0.15037086	1.49E-24
IRF9	-0.2638109	1.50E-24
HIBCH	0.12610746	1.50E-24
INSR	0.15910853	1.55E-24
AC015813.1	0.17914111	1.55E-24
ARID3A	-0.3490397	1.63E-24
NDUFAF4	0.11723868	1.63E-24
MAN2B2	0.1453692	1.68E-24
TCOF1	0.21041009	1.73E-24
CTSC	0.41232767	1.73E-24
MNS1	-0.3101884	1.75E-24
ARRB2	-0.3330224	1.77E-24
AAMP	0.04005911	1.79E-24
STK11	0.09458564	1.85E-24
SRP14-AS1	0.1391694	1.88E-24
MSRB3	0.32726659	1.88E-24
SMIM20	0.14418381	1.90E-24
CPT1A	0.30238983	1.92E-24
DLST	-0.1556169	2.05E-24
FBL	0.33183045	2.09E-24
B3GALNT2	0.14940018	2.14E-24
BMS1	0.18071641	2.16E-24
NUDT7	0.10686133	2.21E-24

BRIX1	0.1523754	2.21E-24
ELP3	0.08645615	2.24E-24
ZMYND11	0.17820499	2.26E-24
PSMD9	-0.1152654	2.30E-24
MBD4	0.28898323	2.32E-24
TANK	-0.3103029	2.37E-24
CCDC91	0.19605256	2.52E-24
RNF20	0.19905199	2.54E-24
SS18L2	0.06647949	2.64E-24
CYLD	-0.3280029	2.65E-24
ATXN7L1	0.13689927	2.68E-24
FLT3	0.51331079	2.76E-24
IVD	0.20671867	2.77E-24
MRPL19	0.1922484	2.79E-24
AC004918.1	0.09214825	2.82E-24
PSMD11	-0.2210862	2.84E-24
ARID1B	0.43455957	2.85E-24
SNHG4	0.20714443	2.86E-24
SSBP4	-0.2217003	2.87E-24
SNRPC	-0.1058177	2.89E-24
CHMP6	-0.226852	3.04E-24
TRIM27	0.22184178	3.13E-24
CD46	0.34863864	3.25E-24
DUSP1	-0.5791203	3.38E-24
MRE11	0.25157657	3.43E-24
DHX37	0.16413676	3.51E-24
NAB2	-0.2536502	3.54E-24
LINC02245	0.12803876	3.57E-24
CUTC	0.09703205	3.64E-24
ICE2	0.19654157	3.74E-24
POLR2G	0.18083596	3.86E-24
DOK3	0.14555561	3.97E-24
CDC34	-0.1338445	4.10E-24
CEP44	0.14638693	4.13E-24
MKKS	0.17075523	4.14E-24
EWSR1	-0.3066314	4.15E-24
DYNC1LI1	-0.2687406	4.16E-24
ACBD3	-0.3406646	4.45E-24
TMEM41B	-0.179296	4.53E-24
TP53BP2	-0.2926484	4.73E-24
RNMT	-0.2861271	4.74E-24
ATP5PD	0.3695989	4.78E-24
MLH3	0.21202481	4.79E-24
SPAG7	-0.1800468	4.83E-24
ZNF514	0.11307103	4.85E-24
RPP40	0.10131002	4.85E-24
SIVA1	-0.1420813	4.87E-24
ABTB1	0.10526923	4.95E-24
TAS2R14	0.10286945	5.07E-24
TVP23B	0.08399509	5.11E-24

BLVRB	0.264667	5.23E-24
SH3KBP1	0.39044536	5.36E-24
LINC01089	0.08875565	5.43E-24
APMAP	0.12413722	5.59E-24
COQ8A	0.14648732	5.69E-24
CUL1	0.15341837	5.89E-24
SLC38A10	0.20520551	5.97E-24
ISG15	-0.3152387	6.12E-24
TOPBP1	0.2057664	6.22E-24
SLC36A4	0.17055423	6.29E-24
CHPT1	0.18466981	6.40E-24
RBM39	-0.4265455	6.61E-24
UBR2	0.09366971	6.67E-24
SULT1A1	0.15967091	6.69E-24
RAD51C	0.06263608	6.86E-24
GLYR1	0.24602762	7.04E-24
RANGRF	0.13752904	7.11E-24
SOS2	0.23323269	7.35E-24
DYNC1I2	0.28155723	7.35E-24
ZNHIT6	0.28673323	7.47E-24
ZNF609	0.22878251	7.77E-24
CCDC125	0.22984393	7.78E-24
EHBP1L1	-0.2963025	7.78E-24
NFKBIL1	0.0453498	7.79E-24
ARL17B	0.08963017	7.87E-24
TMUB2	-0.1779235	7.99E-24
TMEM150A	0.10524732	8.01E-24
SLC39A6	0.14910162	8.09E-24
UBA2	0.18035263	8.18E-24
ACADSB	0.14540235	8.22E-24
NSFL1C	-0.179474	8.29E-24
PRMT5	0.14684357	8.60E-24
MRPL1	0.18236073	8.67E-24
TRPV2	-0.1916616	9.10E-24
FOSL2	-0.4201222	9.33E-24
TMEM35B	0.19525855	9.61E-24
GBGT1	0.11877746	9.69E-24
PAXIP1-AS2	0.13705419	1.01E-23
UBE2M	0.18484366	1.02E-23
JMJD6	-0.1428812	1.05E-23
SKIDA1	0.19843522	1.06E-23
ANAPC5	0.37237488	1.07E-23
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MCM5	-0.118994	1.21E-23
NDUFA3	0.35593124	1.22E-23
ANKRD10-IT	0.16817958	1.23E-23
CCDC18	0.1764958	1.29E-23
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VPS51	-0.0862983	1.30E-23
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AC090630.1	0.14901012	1.33E-23
MED30	0.03855029	1.36E-23
VWA5A	0.17234939	1.39E-23
ZNF69	0.14450457	1.39E-23
CMIP	0.20987721	1.44E-23
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SNRPA1	-0.2489403	1.49E-23
IDI1	-0.3469948	1.50E-23
TSPAN3	0.23544082	1.50E-23
MNAT1	0.11861773	1.56E-23
TP53I13	-0.1820718	1.57E-23
TMED3	0.17702439	1.60E-23
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CAMTA1	-0.2268994	1.66E-23
SGTA	-0.2603048	1.68E-23
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SURF6	0.16691227	1.72E-23
NHLRC3	0.1396925	1.79E-23
ZBTB8OS	0.13082022	1.81E-23
RPUSD3	0.14441151	1.86E-23
CHMP1A	-0.1644501	1.86E-23
CFAP20	-0.1913999	1.92E-23
KLF2	-0.4368644	2.05E-23
SUMO1	-0.2551113	2.06E-23
CNOT6	0.12146291	2.09E-23
MSH3	0.22601874	2.12E-23
AL157392.3	0.12504205	2.12E-23
RTN3	0.32316288	2.15E-23
HACD3	0.15395367	2.16E-23
PDE4DIP	0.18344377	2.18E-23
NFYC	0.0634133	2.19E-23
AC104530.1	0.18062539	2.24E-23
ARID4A	-0.3925024	2.29E-23
JKAMP	0.20555025	2.41E-23
SLC46A3	0.13185564	2.43E-23
CACYBP	0.28716456	2.44E-23
GLT8D1	0.11506356	2.67E-23
CNTRL	0.34565754	2.73E-23
DTYMK	0.12608947	2.75E-23
CCDC149	0.16434849	2.77E-23
LSM6	0.13528277	2.80E-23
RPS24	0.21629608	2.94E-23
PPP1R35	-0.2004975	2.96E-23
UBA1	0.12479116	3.01E-23
LINC00623	0.13771102	3.05E-23
UNG	0.06521848	3.07E-23
ERH	0.32007425	3.19E-23

GNPTG	0.20375574	3.25E-23
TESC	0.30871963	3.40E-23
SAR1A	-0.207081	3.42E-23
VPS11	0.10170898	3.47E-23
GTF2H3	0.14059003	3.48E-23
UBE2F	0.27160088	3.50E-23
GARS	-0.2637057	3.55E-23
PMF1	-0.2362399	3.55E-23
DHFR	0.01078737	3.61E-23
FBXL3	-0.2696633	3.67E-23
NOG	0.15392018	3.70E-23
METRNL	-0.2999763	3.74E-23
RPA3	-0.0068413	3.75E-23
UXS1	0.15426998	3.77E-23
CCDC14	0.25150092	3.89E-23
ITFG1	0.1125952	3.89E-23
GSAP	0.11285109	3.96E-23
DDA1	-0.1721253	4.00E-23
FARSA	0.28538465	4.01E-23
SLIRP	0.27204139	4.01E-23
ZXDC	0.1091913	4.10E-23
PDHA1	0.11892929	4.12E-23
C17orf67	0.18699435	4.16E-23
TIMP2	0.21218779	4.22E-23
SQOR	0.2766006	4.27E-23
RBL2	0.18738566	4.38E-23
CHCHD3	0.13226091	4.48E-23
HMGB2	-0.3950338	4.51E-23
SMIM29	-0.1533403	4.55E-23
PIIP5K2	0.3071251	4.57E-23
ZNF433-AS1	0.20660741	4.59E-23
SNRNP27	0.18592511	4.64E-23
AC007566.1	0.12118867	4.65E-23
ITGAX	-0.3127187	4.68E-23
NAPEPLD	0.16695622	4.92E-23
PRPF19	0.04083862	5.10E-23
FTH1	-0.4447276	5.11E-23
EEF1E1	0.18750385	5.24E-23
MEF2C	-0.4976114	5.27E-23
TUBA1C	-0.278717	5.43E-23
ITFG2	0.129853	5.46E-23
SESN1	-0.2510622	5.47E-23
ANAPC16	0.26410212	5.49E-23
SMAP2	-0.2923134	5.61E-23
OSGEP	-0.122676	5.75E-23
EEF1AKMT1	0.12580101	5.78E-23
LYPLA2	-0.1176565	5.84E-23
RBM4	-0.2752564	5.88E-23
API5	0.13188903	5.89E-23
UBA6	-0.2590357	5.95E-23

DPY30	0.14239334	6.02E-23
STK24	-0.3093684	6.08E-23
GNL1	-0.2514515	6.08E-23
HEBP2	-0.295338	6.22E-23
ARMC1	0.11019015	6.35E-23
CTDSPL2	-0.0708106	6.35E-23
AC009061.2	0.11592479	6.56E-23
PDCD5	0.29387515	6.74E-23
PLPBP	0.14421412	6.83E-23
PUS7	0.16774924	7.16E-23
LATS2	-0.3238896	7.29E-23
ALYREF	0.15176113	7.50E-23
PCNX4	0.34606713	7.66E-23
PKD2	0.21090979	7.69E-23
MRPL39	-0.1233388	7.72E-23
KDM5C	-0.0277981	7.75E-23
FAM32A	0.03197545	7.86E-23
ICAM1	-0.2673737	7.89E-23
N4BP1	-0.2688434	8.47E-23
CBWD2	0.14417675	8.66E-23
RBM6	0.1862261	8.66E-23
PSMC5	-0.0808497	8.69E-23
PRELID3B	-0.0876709	8.80E-23
HMGCL	0.05066793	8.80E-23
POLI	0.10329538	8.92E-23
QPRT	0.39918818	9.37E-23
PITHD1	-0.1157225	9.42E-23
GAB3	0.05454866	9.45E-23
MON1B	0.14177865	9.57E-23
BTN3A2	0.15335006	9.59E-23
FBH1	0.11463531	9.65E-23
DHX8	-0.0071585	9.68E-23
MRPS22	-0.2241185	9.72E-23
PAAF1	0.20065903	9.76E-23
TIMM17A	-0.2016424	9.78E-23
TSPO	-0.364696	9.81E-23
DNAJC10	0.35572545	9.93E-23
ARHGEF7	-0.3250664	9.98E-23
PIGK	0.14188171	1.01E-22
TMC6	-0.2899753	1.02E-22
PIK3C3	0.26134668	1.03E-22
MAP1LC3A	-0.2671704	1.03E-22
PDCD6	0.32214854	1.03E-22
TRAPPC3	0.15193314	1.04E-22
CPSF7	-0.1592396	1.06E-22
NISCH	0.10501497	1.15E-22
ERG28	0.02518303	1.16E-22
RMND1	0.15717406	1.17E-22
PRKCQ	0.09204326	1.17E-22
LRRC28	0.09024035	1.17E-22

AC026124.1	0.15127181	1.18E-22
RPP21	0.12624843	1.19E-22
CBX4	0.06504144	1.20E-22
PSMB7	-0.1521052	1.22E-22
RBPMS	-0.2858719	1.22E-22
FCF1	0.14026053	1.24E-22
FOS	-0.6056705	1.30E-22
TDRD3	0.15392838	1.37E-22
TIMM17B	-0.0104146	1.41E-22
PSMB2	-0.2195563	1.42E-22
KLHDC3	0.08094776	1.47E-22
BAZ2A	-0.2810468	1.51E-22
XRRA1	0.13717805	1.52E-22
SMARCC1	0.40646971	1.54E-22
ZNF276	-0.2431609	1.57E-22
CD244	0.12585747	1.59E-22
SAMM50	0.05059361	1.60E-22
B3GNTL1	0.16260994	1.60E-22
GCLC	0.16852522	1.63E-22
C1orf50	-0.1148676	1.64E-22
PPP1R10	0.19080654	1.64E-22
SHPRH	0.18281685	1.64E-22
RAB11A	-0.1646349	1.64E-22
FAM49B	-0.3003519	1.65E-22
KRT18	-0.4796737	1.65E-22
SPIDR	0.18527018	1.66E-22
POLR3A	0.11675252	1.79E-22
GLO1	0.19338996	1.79E-22
HILPDA	0.11265662	1.80E-22
APOOL	0.14543436	1.85E-22
ZNF790-AS1	0.12083673	1.88E-22
DPH7	0.12098976	2.00E-22
UBE2D3	-0.3533047	2.02E-22
PHF5A	0.06429132	2.04E-22
TMEM126B	0.21828264	2.05E-22
TPRKB	0.1410728	2.06E-22
DARS	0.31236279	2.07E-22
LASP1	-0.2322283	2.08E-22
NEU4	-0.24255	2.12E-22
ZC3H6	0.19888393	2.18E-22
EEF2K	0.07892121	2.19E-22
ZNF664	0.12741181	2.21E-22
WDR61	0.22741236	2.24E-22
TFAM	-0.3266154	2.27E-22
PRR11	0.1590856	2.28E-22
EMC2	0.15462711	2.28E-22
PLAUR	-0.3534428	2.28E-22
PCMTD1	0.25944285	2.32E-22
GNA13	-0.245019	2.33E-22
MACF1	0.433657	2.34E-22



MYBBP1A	0.12642333	2.36E-22
GMPR	0.20659203	2.40E-22
ROCK2	0.2813396	2.50E-22
ARSD	0.28188902	2.51E-22
CHID1	0.01405954	2.52E-22
F8A3	0.13114383	2.54E-22
DPM2	0.09843596	2.54E-22
KDM2A	-0.1783169	2.57E-22
NUP43	0.09690802	2.57E-22
NT5M	0.14913045	2.59E-22
AC006480.2	0.11877208	2.60E-22
YARS	0.03135156	2.66E-22
TGIF2	-0.2165386	2.66E-22
PYM1	-0.2244312	2.67E-22
RNF213	0.19672347	2.70E-22
PRKAG2	0.10020878	2.73E-22
IGFBP2	0.44646952	2.75E-22
NUP153	-0.0993949	2.79E-22
TRIP11	0.30615636	2.79E-22
TMEM218	0.21214722	2.82E-22
TUT7	0.19636384	2.86E-22
KPNA2	-0.1480509	2.90E-22
ZNF429	0.18019246	2.97E-22
FAM106A	0.06758413	3.07E-22
ST3GAL1	-0.2988476	3.10E-22
RUNX1	0.35930107	3.15E-22
ELOC	-0.1656151	3.22E-22
FUT10	0.05884309	3.23E-22
ECM1	-0.1923731	3.33E-22
RFLNB	0.39675266	3.33E-22
STAT2	0.21451538	3.34E-22
ZNFX1	-0.2808825	3.43E-22
LMO7	0.13219134	3.49E-22
ZNF518A	0.22660072	3.50E-22
PLBD2	0.07457198	3.57E-22
EMG1	-0.119765	3.62E-22
CIZ1	0.12379091	3.64E-22
RFX2	-0.2891605	3.70E-22
IMMP1L	0.1272376	3.71E-22
ZC3H7B	0.12535367	3.71E-22
ZNF714	0.1452296	3.84E-22
ZMYND19	0.10438777	3.96E-22
AFG3L2	0.18496512	4.03E-22
ZYX	-0.3193021	4.11E-22
RRAGA	-0.1567269	4.14E-22
CHST13	0.11960443	4.16E-22
GTF2H5	0.19559296	4.20E-22
G6PD	-0.2309914	4.27E-22
THAP6	0.10737114	4.27E-22
HNRNPAB	0.38088085	4.27E-22

HEATR3	0.10904095	4.32E-22
LRRRC59	-0.1707486	4.34E-22
NOMO1	0.08410639	4.36E-22
ITGAE	0.2723992	4.39E-22
HMOX2	-0.1094048	4.41E-22
SDHAF2	-0.1918064	4.49E-22
SEC13	-0.0059498	4.51E-22
SMIM7	0.05361325	4.61E-22
CSF3R	0.43246885	4.66E-22
KDELR2	-0.1531186	4.68E-22
SDK2	0.08445554	4.86E-22
YIPF3	-0.1359299	4.93E-22
NUMB	-0.1891051	4.95E-22
TRMT10C	0.32275609	5.02E-22
XPC	0.18158191	5.06E-22
DOK1	-0.1719708	5.10E-22
LYSMD2	0.16553646	5.17E-22
TCF12	0.07675161	5.21E-22
DGLUCY	0.23174768	5.33E-22
ALDH6A1	0.14194795	5.35E-22
CMC1	0.17456702	5.62E-22
VEZT	-0.2343091	5.67E-22
ZNF529	0.11164469	5.79E-22
KCNMB3	0.10572743	6.28E-22
EXTL2	0.14518801	6.53E-22
HAUS1	0.13072606	6.66E-22
SARS	0.16715838	6.73E-22
CTSW	-0.3955029	6.73E-22
NDUFAF6	0.16363773	6.80E-22
MOSPD2	0.11187001	6.95E-22
SLC16A7	0.19034754	7.03E-22
TLR2	0.18386458	7.09E-22
GPR174	0.19808974	7.19E-22
MAP7	0.35448486	7.22E-22
CDCA7L	0.15825492	7.23E-22
MTA2	0.02025959	7.26E-22
NUP107	0.15476433	7.40E-22
CGGBP1	0.24575225	7.41E-22
HDAC7	-0.1769857	7.76E-22
F11R	-0.3078638	7.92E-22
HEBP1	0.19179433	8.06E-22
LIX1L	0.11883543	8.06E-22
MRPL47	-0.1925098	8.06E-22
NSMAF	0.14039582	8.12E-22
RAD17	0.15085537	8.35E-22
CNOT11	0.07368387	8.46E-22
ELMO1	-0.2630366	8.76E-22
BZW2	0.2959525	8.80E-22
LYAR	0.17323712	9.03E-22
TCEA2	-0.2559969	9.06E-22

HADH	0.13705956	9.19E-22
NAA50	-0.1782235	9.21E-22
MXI1	0.14665834	9.39E-22
CDKN1B	0.03753593	9.51E-22
DNAJC19	0.21682228	9.51E-22
MBD2	0.11276057	9.55E-22
SCAMP3	0.13664881	9.55E-22
RPP25L	0.11259469	9.68E-22
NARF	0.10082446	9.76E-22
CEP152	0.17276996	9.80E-22
TMEM41A	0.12682531	9.88E-22
ZC3H15	-0.3775468	9.93E-22
PFN1	-0.4545221	9.99E-22
XPNPEP3	0.09990353	1.05E-21
GLRX	-0.1301879	1.05E-21
ZNF652	0.15280221	1.09E-21
AP002748.4	0.07309481	1.09E-21
MFN1	0.09284482	1.11E-21
SHFL	-0.2206199	1.11E-21
NRAS	-0.2195358	1.11E-21
FMNL3	0.10054352	1.12E-21
TSEN2	0.12891419	1.12E-21
KIDINS220	0.13856229	1.14E-21
TRIM44	0.26576621	1.18E-21
GOSR1	-0.1639631	1.20E-21
ZNF785	0.17517207	1.20E-21
C2CD2	0.08682272	1.22E-21
HSPB11	0.10338493	1.27E-21
KAT7	0.10505045	1.32E-21
MRPL11	-0.0253093	1.34E-21
NDUFAF3	-0.0503098	1.34E-21
PSMA5	0.24680187	1.36E-21
ZNF181	0.12461986	1.37E-21
HYPK	0.09343755	1.37E-21
RASA4	0.11033725	1.37E-21
LTN1	0.18529515	1.38E-21
TMED10	-0.229669	1.38E-21
COL24A1	0.2436248	1.39E-21
KDM4A	0.20849547	1.39E-21
AL138756.1	0.13004712	1.39E-21
HOXB2	-0.3278537	1.41E-21
SLCO3A1	0.14196587	1.42E-21
GSPT2	0.16027079	1.43E-21
ING1	0.0379008	1.44E-21
ELMOD2	0.131175	1.45E-21
MRPL22	-0.1800743	1.52E-21
INTS6	-0.3701456	1.53E-21
MRPL50	0.11791001	1.54E-21
WDR41	0.00146593	1.54E-21
NUDCD3	0.12319491	1.55E-21

ALDH5A1	0.14315623	1.59E-21
ITGB1BP1	-0.1695358	1.59E-21
GPR108	0.06287469	1.61E-21
TTN-AS1	0.20146754	1.63E-21
NOC3L	0.24540415	1.65E-21
SMIM10L1	0.15460625	1.67E-21
SDHAF1	0.12854836	1.70E-21
DPPA4	0.29391763	1.71E-21
IFIH1	0.18851268	1.72E-21
ORC3	0.10214875	1.73E-21
PSMC4	-0.1356128	1.80E-21
ATG3	-0.2002368	1.81E-21
COG3	-0.2433897	1.83E-21
NAXE	0.12932352	1.88E-21
AL390728.6	0.16698824	1.91E-21
NDUFA8	0.13516337	1.91E-21
FUOM	-0.2207648	1.96E-21
UNC50	0.10438453	1.97E-21
DTX3L	0.14615295	1.98E-21
AHDC1	-0.3338153	1.99E-21
IRAK1	0.01596535	2.00E-21
DPF2	-0.0757249	2.03E-21
GLOD4	0.21100748	2.04E-21
UBAC2	0.05285023	2.12E-21
PPP1R12B	0.15848772	2.12E-21
CMBL	0.17788259	2.13E-21
C16orf58	0.05387277	2.14E-21
ACLY	0.1775366	2.15E-21
FRG1	0.33115543	2.16E-21
COMMD4	0.1287278	2.17E-21
UBALD2	-0.1932867	2.21E-21
FAN1	0.08207007	2.24E-21
ELAC2	0.07592457	2.24E-21
LINC01184	0.1373629	2.29E-21
KLHL18	-0.2523813	2.29E-21
ANKRD13D	-0.1610486	2.30E-21
HPRT1	-0.1557966	2.34E-21
ZNF224	0.03875749	2.36E-21
PPP1R21	0.14111741	2.38E-21
RNPEPL1	0.02928339	2.41E-21
C1orf174	0.0810125	2.43E-21
TMEM30A	0.11513957	2.46E-21
DCTPP1	0.0953315	2.50E-21
GPAT3	-0.3351894	2.56E-21
RAB2A	-0.3083416	2.59E-21
POLG2	0.10185933	2.68E-21
UBQLN1	-0.1941381	2.73E-21
THRA	0.05689324	2.78E-21
NME1	0.29096998	2.79E-21
BFAR	-0.1904729	2.84E-21

UMPS	0.02033302	2.86E-21
CYBRD1	0.11440444	2.86E-21
RBM8A	-0.3243903	2.88E-21
ZNRF2	0.09674686	2.93E-21
INTS11	-0.0392431	2.95E-21
GOLT1B	-0.0835071	2.99E-21
MRPS2	0.02681244	3.03E-21
METTL8	0.17034986	3.11E-21
NIPAL2	0.13852054	3.14E-21
AP3S1	-0.2002183	3.19E-21
AC097448.1	0.10492931	3.28E-21
TIMM9	0.2255444	3.30E-21
ERI2	0.12049093	3.30E-21
NEDD8	0.28045021	3.30E-21
CBWD5	0.15797631	3.34E-21
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ARRDC1	-0.0114279	3.46E-21
PPM1K	0.23890902	3.49E-21
MLEC	0.29132748	3.51E-21
RIDA	0.12700854	3.53E-21
RFC4	0.04620582	3.56E-21
LONP2	0.1630158	3.57E-21
RPGR	-0.3653573	3.57E-21
ADSS	0.1785548	3.57E-21
EEF1D	-0.282698	3.61E-21
SNTB1	0.12282211	3.62E-21
NCK1	-0.2059905	3.64E-21
TNRC6B	0.3222898	3.64E-21
FAM89B	-0.1104839	3.65E-21
SNRNP200	0.22263147	3.67E-21
ZNF37A	0.23428479	3.73E-21
GAS6-AS1	0.18784062	3.74E-21
TMEM248	-0.0048154	3.77E-21
GET1	-0.1444614	3.88E-21
TECR	0.03129803	3.89E-21
XXYLT1	0.10985448	3.92E-21
MCFD2	-0.2112815	3.99E-21
AC010883.3	0.13701424	3.99E-21
HMG20B	0.04207584	4.00E-21
NAGK	-0.0392446	4.03E-21
TRAPPC11	0.17198979	4.09E-21
EVI5	0.17728293	4.12E-21
GRAMD1A	-0.153612	4.19E-21
PHF6	0.20023225	4.21E-21
RNF13	0.149369	4.22E-21
GNL2	0.08325359	4.27E-21
ATP6V1B2	-0.1858346	4.28E-21
GIGYF2	0.11685194	4.37E-21
EIF4EBP2	0.17641023	4.39E-21
CEP57	0.19183547	4.46E-21

POLR2C	0.01284641	4.47E-21
ARPC5	0.22657403	4.52E-21
CEBPZOS	0.17154733	4.65E-21
TMEM209	0.12118368	4.67E-21
UHMK1	0.21363031	4.83E-21
AC004540.2	0.24587994	4.87E-21
LIG3	0.1323323	4.93E-21
PPP6R3	-0.2444663	4.96E-21
STX8	0.10673641	4.98E-21
PPP6R2	0.10185873	5.07E-21
MFSD3	0.10616554	5.20E-21
RCC2	0.1865898	5.33E-21
SUSD1	0.16000536	5.34E-21
SP1	0.1397442	5.37E-21
CD34	-0.2039321	5.44E-21
KDM1A	0.21111643	5.45E-21
SRRM1	0.32363521	5.49E-21
SENP7	0.16311934	5.50E-21
AC105285.1	0.12274403	5.57E-21
NOL12	0.01296683	5.71E-21
LIPT1	0.13841876	5.93E-21
OTUB1	0.02379627	5.94E-21
ORC4	0.08708927	5.97E-21
DTD2	0.12510848	6.05E-21
EPG5	0.09237027	6.07E-21
IFT122	0.0819314	6.11E-21
CTPS1	0.15341577	6.22E-21
P2RX4	0.11847495	6.27E-21
EXOC3	0.17612427	6.28E-21
YBX1	-0.3648213	6.28E-21
MAGOH	-0.1141486	6.31E-21
IARS	0.20448955	6.31E-21
SNHG9	0.16612749	6.39E-21
ATP6V1F	0.36460111	6.41E-21
ELP5	-0.1431722	6.43E-21
AUP1	-0.1441707	6.49E-21
GON7	0.1568704	6.53E-21
PLA2G12A	0.06221242	6.54E-21
C1D	-0.0309504	6.65E-21
TMEM97	0.11207123	6.76E-21
ALKBH3	0.08631312	6.77E-21
ACOT11	0.16504634	6.80E-21
TSPYL4	-0.0665622	7.09E-21
PLEKHM1	-0.1640074	7.14E-21
B3GALT6	0.09083608	7.17E-21
ADAL	0.13797741	7.51E-21
USF2	0.25059456	7.67E-21
SYNJ2BP	0.15552097	7.92E-21
RNF168	-0.3188537	8.01E-21
LRRC8C	-0.3685916	8.01E-21

UBE2G2	0.23440926	8.10E-21
ARV1	0.13249458	8.17E-21
ARHGAP15	0.18732727	8.19E-21
AC004951.1	0.1377092	8.33E-21
LAMP1	0.24405116	8.35E-21
NSD2	-0.0753468	8.61E-21
ERCC3	0.05530755	8.77E-21
ADIPOR1	-0.1043682	8.77E-21
DUS1L	0.14383909	8.88E-21
CZIB	0.10347435	8.92E-21
AP1G1	-0.2701343	9.09E-21
HRAS	-0.2144771	9.13E-21
HAX1	0.00447116	9.18E-21
TAB2	-0.0240807	9.20E-21
ZSWIM6	-0.2885376	9.24E-21
STARD7	0.17993987	9.26E-21
FER	0.13025483	9.46E-21
YES1	-0.1814721	9.49E-21
ARRDC5	0.09619235	9.52E-21
OSTM1	0.12698612	9.53E-21
DNAAF2	0.14660659	9.57E-21
RNF181	-0.1969818	9.70E-21
BAK1	-0.1759026	9.86E-21
AFTPH	-0.2048088	9.95E-21
JPX	0.39515667	1.02E-20
VPS8	0.08792867	1.03E-20
RC3H2	-0.2041722	1.04E-20
HMGA1	-0.4457159	1.04E-20
EAF1	-0.2124421	1.05E-20
MPHOSPH9	0.19942672	1.05E-20
EIF2B1	0.15676013	1.06E-20
CPTP	-0.1631902	1.09E-20
MRPL27	-0.1194402	1.11E-20
NFAT5	-0.1573219	1.12E-20
ZNF33A	0.22865223	1.13E-20
SAFB	0.18124113	1.15E-20
USP33	0.22108151	1.16E-20
ZNF587B	0.10484781	1.17E-20
ADH5	0.17768542	1.19E-20
BEND6	0.16333621	1.22E-20
ADD3	0.23234011	1.23E-20
COPS2	-0.2869119	1.25E-20
PWWP2B	-0.2154491	1.27E-20
KIF5B	-0.1945279	1.27E-20
RBX1	0.33899431	1.28E-20
TIMM44	0.05495218	1.32E-20
RNF5	0.15531839	1.32E-20
YLPM1	0.18663761	1.33E-20
AL513128.2	0.10842175	1.33E-20
GCN1	0.09291228	1.34E-20

HPCAL1	-0.1695912	1.34E-20
PLRG1	0.16144044	1.35E-20
TRABD	-0.1204821	1.37E-20
AC022087.1	0.07347173	1.39E-20
MRPL30	0.16872969	1.39E-20
EMC4	0.10495157	1.41E-20
SLC25A38	0.09716485	1.43E-20
CDC5L	-0.1180233	1.43E-20
LMAN2	-0.1771959	1.46E-20
C12orf66	0.10052442	1.49E-20
RNF169	0.12359737	1.50E-20
PPM1B	-0.1755773	1.51E-20
RRP7A	-0.0927551	1.52E-20
RNF216	0.06911827	1.54E-20
PPCS	0.34191732	1.57E-20
RNF125	-0.2762091	1.58E-20
EIF4E2	-0.0793507	1.59E-20
HDHD2	0.15553716	1.60E-20
PACC1	0.0778633	1.61E-20
AC099518.5	0.04294369	1.61E-20
PDIA4	0.11166322	1.69E-20
DOCK11	0.14641103	1.73E-20
CEP192	0.15817955	1.73E-20
CLPB	0.16181558	1.76E-20
ANKAR	0.08247169	1.76E-20
PIGC	0.16907665	1.82E-20
RNF114	-0.2080213	1.84E-20
FNDC3A	0.09103369	1.85E-20
FADS1	0.26989119	1.85E-20
EIF2B2	-0.2161235	1.85E-20
ARHGAP11A	0.1594309	1.87E-20
IMPACT	0.23188149	1.92E-20
CEP128	0.14083108	1.93E-20
ABT1	-0.1446481	1.94E-20
HS2ST1	0.12685352	1.96E-20
CXorf21	0.22868596	1.96E-20
APLP2	0.47636249	1.97E-20
SEPTIN9	-0.1658791	1.97E-20
UTP14A	0.2156935	2.10E-20
PHF23	-0.1666595	2.11E-20
PABPC4	0.28984793	2.11E-20
DIS3L	0.14647966	2.24E-20
NIF3L1	0.09177333	2.26E-20
RNF166	-0.2334611	2.26E-20
GATAD1	0.28961956	2.27E-20
MAGT1	-0.1622115	2.27E-20
WDR75	0.0851994	2.28E-20
MLLT1	0.16095847	2.29E-20
STX10	0.04288447	2.30E-20
RPRD1A	0.07207299	2.34E-20



TMEM242	-0.1229316	2.36E-20
RNF4	-0.1539846	2.37E-20
UBE2G1	-0.077867	2.39E-20
PAN3	0.09343541	2.40E-20
BAG6	-0.0330689	2.44E-20
B4GALT1	-0.1429815	2.45E-20
PRPF6	0.20536948	2.47E-20
MGMT	-0.1315551	2.53E-20
METTL15	0.11881907	2.57E-20
BCL7C	-0.1382373	2.57E-20
UBN2	0.20469717	2.57E-20
SLC39A8	0.14499467	2.59E-20
LIMD1	-0.1652297	2.60E-20
BCCIP	0.15202268	2.62E-20
KIF1BP	-0.228454	2.65E-20
PGP	0.14076518	2.76E-20
IFT52	0.09054578	2.78E-20
RABGAP1	0.19520819	2.82E-20
KIAA1143	0.1944679	2.85E-20
PLEKHA3	0.05396352	2.91E-20
SPATA13	-0.219856	2.95E-20
EMC7	-0.1762621	2.96E-20
CCNY	0.18378987	2.97E-20
RPAIN	0.19746944	2.97E-20
ICOSLG	-0.2141947	3.02E-20
L3HYPDH	0.08632219	3.14E-20
ALG6	0.08927206	3.16E-20
UBE2S	-0.2245021	3.16E-20
CALCOCO1	0.0158474	3.17E-20
BOLA2B	0.11482804	3.17E-20
ZNF844	0.09794288	3.18E-20
GGPS1	0.14598382	3.18E-20
VKORC1L1	0.06884409	3.24E-20
GMPS	0.00073859	3.26E-20
SNRPA	-0.1991579	3.28E-20
ISOC1	0.06169258	3.32E-20
DLG1	0.12496052	3.40E-20
PRPS2	0.08814131	3.40E-20
NUDT6	0.15183927	3.43E-20
ROBO3	-0.1929639	3.44E-20
THUMPD2	0.14948186	3.45E-20
BLMH	0.09091686	3.49E-20
DRAM2	0.10099667	3.53E-20
GALNT7	0.2712981	3.53E-20
SLC43A1	0.12343721	3.56E-20
KHNYN	-0.221171	3.58E-20
TIFA	0.10733612	3.61E-20
PFDN6	0.14455783	3.64E-20
VRK3	-0.040908	3.65E-20
TM9SF4	0.09137884	3.69E-20

HDAC8	0.19706074	3.71E-20
DCTN5	0.03969715	3.72E-20
SH3GL1	-0.1595951	3.81E-20
SRSF4	-0.2068775	3.81E-20
GPI	0.17030678	3.82E-20
RIN3	-0.2474251	3.82E-20
IVNS1ABP	-0.2752349	3.86E-20
AC138649.1	0.12893339	3.86E-20
ACAT1	0.16848092	3.89E-20
TMEM69	0.06517557	3.89E-20
PLAU	-0.3335107	3.96E-20
TXNDC17	-0.1467141	3.97E-20
CSPP1	-0.2682046	3.98E-20
SNRNP25	0.11178997	4.05E-20
ASPH	0.19228362	4.09E-20
CCL5	-0.5850506	4.15E-20
FAM13A	0.01779094	4.21E-20
FBXL20	0.1167149	4.22E-20
RPS19BP1	-0.1634733	4.27E-20
KANSL2	0.03549829	4.29E-20
POLR1B	0.10762169	4.30E-20
CEBPZ	0.24857512	4.36E-20
CACUL1	-0.2034311	4.42E-20
SYK	0.18955626	4.49E-20
GNB2	-0.1729874	4.50E-20
CCDC102B	0.14715344	4.53E-20
TBC1D10B	-0.1395407	4.54E-20
FERMT3	-0.2555725	4.57E-20
CYB5R4	0.17568622	4.60E-20
COMMD10	0.08629712	4.63E-20
UBASH3B	-0.2531059	4.65E-20
TRAPPC4	-0.1795738	4.70E-20
CAPN2	-0.2178505	4.88E-20
IDE	0.13940399	4.92E-20
COX18	0.1488021	4.95E-20
RPL27	0.18468795	4.95E-20
ZC3HAV1L	0.07505022	4.98E-20
STX1A	-0.1481038	5.00E-20
HCFC1R1	-0.0694191	5.06E-20
AL109811.2	0.11308917	5.10E-20
PTDSS1	0.14310961	5.25E-20
NIFK-AS1	0.11551835	5.26E-20
RNF113A	0.10860158	5.30E-20
ZNF43	0.22416433	5.31E-20
NOTCH3	-0.1786949	5.41E-20
PLEKHM3	0.13131791	5.54E-20
ZNF490	0.12010659	5.56E-20
METTL4	0.10386625	5.57E-20
SNX18	0.11935758	5.62E-20
WDR89	0.08719585	5.68E-20

LINC02256	0.27840931	5.71E-20
SSRP1	0.09845125	5.73E-20
OSGEPL1	0.12254511	5.79E-20
PSAP	0.1612718	5.81E-20
NCOA3	-0.3448999	5.86E-20
MAP3K4	0.1664489	5.93E-20
FKBP5	-0.1855132	5.99E-20
DCTD	0.0132194	5.99E-20
C1orf56	-0.1930371	6.00E-20
GPALPP1	0.19880997	6.14E-20
GDF11	0.19793582	6.14E-20
RBM4B	0.05625267	6.19E-20
TMEM259	-0.1421672	6.22E-20
UBAP1	-0.1994785	6.29E-20
MAGOHB	0.11411207	6.41E-20
RRP36	-0.0859247	6.43E-20
CD300LF	0.05391879	6.58E-20
MSH2	0.15343937	6.65E-20
GLI4	0.10884223	6.80E-20
SACM1L	0.0085069	6.83E-20
UBE2Z	-0.3211069	6.87E-20
PPP6C	-0.227053	6.88E-20
CLASP2	0.13635072	6.90E-20
DLGAP4	-0.2173727	7.03E-20
UBL7	0.09873721	7.03E-20
NDFIP1	-0.2756995	7.05E-20
CTNS	0.09434396	7.18E-20
NCOA1	0.16595854	7.21E-20
HMG3	0.3001399	7.22E-20
KDM6A	-0.1310638	7.29E-20
THAP11	-0.1000756	7.34E-20
RRP15	0.18386455	7.42E-20
WDSUB1	0.15023219	7.43E-20
NELFA	-0.0388531	7.59E-20
CTSA	0.24891262	7.62E-20
ZNF146	0.16061534	7.64E-20
SGK3	0.29241955	7.64E-20
DERL2	-0.1740941	7.81E-20
RNF138	-0.1787193	7.90E-20
LIPA	0.05545403	7.96E-20
XBP1	-0.4362229	8.00E-20
SLC30A5	0.04223066	8.06E-20
VDAC1	0.34891984	8.06E-20
WDR13	-0.2082666	8.14E-20
AC079781.5	0.10614216	8.16E-20
THAP12	-0.1566267	8.24E-20
ZBTB46	-0.2067821	8.29E-20
RPUSD4	0.0777405	8.61E-20
SZRD1	-0.2217361	8.94E-20
MGAT2	0.04564773	8.95E-20

EMC6	-0.1098076	8.97E-20
TOR1AIP1	0.20511127	8.98E-20
STMN1	-0.1120732	9.07E-20
RAPGEF1	0.09582265	9.17E-20
PIH1D1	-0.0633832	9.17E-20
RPL7L1	0.22873404	9.27E-20
LAGE3	0.12334846	9.31E-20
SDF2L1	-0.0243498	9.55E-20
IL27RA	-0.3132657	1.00E-19
PSMD6	-0.2332477	1.00E-19
MRPL32	0.11140584	1.01E-19
HEATR1	0.13765573	1.05E-19
CLTB	-0.1084042	1.05E-19
PPP2R2A	-0.2469305	1.06E-19
CAPN1	-0.224428	1.06E-19
POLDIP3	-0.0874604	1.08E-19
POU2F2	-0.3314734	1.10E-19
RPF2	0.19131266	1.10E-19
POLR2E	-0.0893064	1.11E-19
LRIG2	0.06820264	1.11E-19
DTNBP1	0.123619	1.13E-19
EDC4	-0.0613526	1.15E-19
CLDND1	-0.3511057	1.17E-19
PREPL	0.15432542	1.17E-19
CD2AP	-0.3280308	1.18E-19
SPNS1	-0.01358	1.18E-19
MSL3	0.04861882	1.18E-19
TRIM38	0.24294274	1.19E-19
RNF214	0.14124584	1.20E-19
ANKRD49	0.12896172	1.20E-19
NOP10	-0.3217244	1.21E-19
SLC35C2	0.0867018	1.21E-19
FANCA	0.09188049	1.23E-19
SLC26A2	0.25904392	1.24E-19
C6orf89	0.03309752	1.27E-19
GORASP2	-0.1778622	1.28E-19
MAPKAPK5-	0.08612202	1.28E-19
ING4	0.14900458	1.31E-19
EIF3J-DT	0.1611829	1.32E-19
QARS	0.08622088	1.33E-19
ZNF169	0.06822564	1.33E-19
RUNX2	0.1562863	1.36E-19
RB1	0.19552192	1.37E-19
RPL29	-0.2830992	1.38E-19
GCFC2	0.1073461	1.39E-19
CDKN2AIPN	0.04866869	1.40E-19
N6AMT1	0.08691208	1.41E-19
DUSP10	-0.2029874	1.43E-19
MRPS28	0.10329993	1.44E-19
SLU7	-0.2153877	1.45E-19

RFNG	0.09774799	1.47E-19
TMEM128	0.07806876	1.48E-19
CSGALNAC <sup>-</sup>	-0.2181765	1.48E-19
CNOT2	-0.2477321	1.48E-19
NXT1	-0.0976961	1.48E-19
AP1AR	0.14055475	1.50E-19
AL096870.8	0.13923119	1.52E-19
DERL1	-0.2189093	1.55E-19
KYAT3	0.09313314	1.55E-19
ZNF675	0.10843986	1.56E-19
NPRL2	0.14854995	1.58E-19
MGST2	0.19346445	1.59E-19
NUDT9	0.07424199	1.60E-19
MPLKIP	0.17073491	1.61E-19
ZNF106	0.26623035	1.63E-19
PARG	0.06923013	1.65E-19
ZNF667	-0.2917871	1.65E-19
AC246817.1	0.12558239	1.65E-19
SIN3A	-0.1257667	1.65E-19
SLC22A16	0.10502461	1.67E-19
COA4	0.26179635	1.68E-19
MYNN	-0.0296254	1.69E-19
DCAF17	0.10989408	1.70E-19
ERP44	-0.211355	1.70E-19
USP11	0.08320235	1.74E-19
UVRAG	0.03599057	1.74E-19
RGL4	-0.2016449	1.77E-19
ERCC5	0.19927	1.81E-19
SETD5	-0.15903	1.82E-19
SNX17	-0.0638398	1.82E-19
DNAJC3	-0.2606061	1.83E-19
NUCKS1	0.31344637	1.86E-19
PLGLB2	0.10929548	1.89E-19
PTTG1IP	0.24283159	1.89E-19
ZNF573	0.07832628	1.90E-19
HSPH1	0.20982202	1.92E-19
TBC1D1	0.12347657	1.94E-19
AAMDC	0.12905892	1.94E-19
RPA2	0.2147492	1.96E-19
RIPOR1	-0.2548153	2.01E-19
MANEA	0.11493438	2.02E-19
MTMR12	-0.2538777	2.03E-19
PDE3B	0.16553587	2.05E-19
FUCA2	0.15216042	2.05E-19
IST1	-0.2096276	2.06E-19
SPRYD7	0.10681721	2.06E-19
TEX264	0.04501026	2.07E-19
L3MBTL2	0.08774243	2.09E-19
NBR2	0.09536598	2.11E-19
CEP78	0.16554762	2.11E-19

C20orf27	0.06875556	2.15E-19
GPR89A	0.08413944	2.20E-19
IBTK	0.15831592	2.21E-19
PIKFYVE	0.24833615	2.24E-19
UROD	0.06727977	2.24E-19
NRBP1	-0.1510029	2.26E-19
COQ5	0.06691472	2.26E-19
SERPINB9	-0.3004108	2.27E-19
NUP133	0.10329146	2.27E-19
PDAP1	0.16858438	2.30E-19
ALKBH4	0.05497265	2.30E-19
METAP1	0.12732339	2.33E-19
TRIO	0.03986631	2.34E-19
KIAA1109	0.13841044	2.36E-19
TRIAP1	0.06400342	2.37E-19
C11orf98	0.09474551	2.39E-19
CBFB	0.12331518	2.40E-19
U2AF2	0.11952567	2.40E-19
SDC4	-0.1783187	2.44E-19
KLF4	-0.1945662	2.47E-19
CBFA2T2	0.13054669	2.49E-19
PAXBP1	0.27018793	2.49E-19
PTK2B	-0.095395	2.51E-19
WDR48	-0.1437887	2.53E-19
AC018638.7	0.06888721	2.56E-19
CYTH2	-0.217852	2.60E-19
AK6	-0.0038332	2.63E-19
HECA	-0.1443647	2.65E-19
DCP2	0.16492233	2.68E-19
MRS2	0.10490012	2.68E-19
SP110	0.11084889	2.69E-19
DCPS	0.11814968	2.70E-19
BRMS1	-0.0042382	2.74E-19
METTL5	0.16501622	2.76E-19
B4GALT6	0.13477419	2.84E-19
ZNF24	-0.0610079	2.85E-19
KTI12	0.08245111	2.91E-19
MRFAP1L1	0.10368735	2.91E-19
DDOST	-0.1434527	2.91E-19
ZNF524	0.05703094	2.93E-19
MLX	-0.1097378	2.93E-19
TAMM41	0.0679023	2.98E-19
CCDC28A	0.03063118	3.00E-19
BCAS3	0.10071648	3.01E-19
RCN1	0.20263653	3.06E-19
RFXANK	0.04580164	3.07E-19
SPATA2L	-0.2028571	3.12E-19
SNUPN	0.18333078	3.16E-19
LZTS2	-0.0900868	3.19E-19
CWF19L2	0.19405039	3.19E-19

DOCK2	0.30688264	3.20E-19
FHL3	-0.2157501	3.20E-19
ZNF195	0.20251196	3.22E-19
TBP	0.06150874	3.22E-19
EHBP1	0.10281152	3.26E-19
LYPLAL1	0.11966817	3.29E-19
SCLT1	0.09112642	3.31E-19
SHOC2	-0.2466472	3.32E-19
CAPRIN1	0.28525418	3.37E-19
SERPING1	-0.239881	3.41E-19
IFT172	0.06857906	3.42E-19
DCAF12	0.08365335	3.42E-19
RAE1	-0.1594258	3.43E-19
AP3B1	0.16176656	3.45E-19
DYRK1B	-0.2193499	3.46E-19
HDAC6	0.10276217	3.47E-19
SLC35A3	0.10678424	3.48E-19
QSER1	0.09509181	3.50E-19
PGAM5	0.07510468	3.53E-19
PIP4K2B	0.12970693	3.54E-19
ZNF124	0.11171216	3.58E-19
RNF34	-0.1654844	3.58E-19
COPB1	-0.1859447	3.60E-19
TMEM14B	0.30084722	3.62E-19
RPIA	0.14289645	3.63E-19
SNHG1	0.18490934	3.63E-19
SSU72	0.24983521	3.65E-19
ANXA4	0.16059216	3.68E-19
TOMM6	0.30360752	3.71E-19
TRAPPC12	0.11707439	3.71E-19
SOCS7	0.07735641	3.75E-19
COMMD1	0.07230135	3.81E-19
XPO1	0.27801984	3.85E-19
NNT	0.17828552	3.86E-19
C21orf91	0.14248763	3.91E-19
ZNF512	0.13564456	3.92E-19
CDIPT	0.01303064	3.94E-19
HCFC1	0.07333687	3.98E-19
CCDC117	0.14096258	4.01E-19
S100A9	-0.3500587	4.07E-19
MICU1	0.13614424	4.10E-19
SH3TC1	-0.1966903	4.14E-19
FAF2	-0.1856381	4.32E-19
TRIM5	0.16124546	4.34E-19
RIT1	-0.2441739	4.35E-19
TMEM59	-0.3215659	4.38E-19
SDHB	0.03070258	4.39E-19
RBM26-AS1	0.10201362	4.47E-19
HIF1AN	0.02249214	4.48E-19
PDS5B	0.12309595	4.53E-19

STK32C	0.17950169	4.53E-19
MRPL14	0.07858781	4.58E-19
KAT8	0.07430856	4.62E-19
TOMM40	0.10545	4.66E-19
TUBGCP3	0.09868503	4.66E-19
JPT1	-0.1611854	4.71E-19
BUD23	-0.0034841	4.71E-19
ILF2	-0.3288369	4.75E-19
MATR3.1	0.1506435	4.79E-19
SMARCAL1	0.09138827	4.79E-19
DNM1L	0.01007693	4.82E-19
MTREX	0.08593793	4.84E-19
ZC3H7A	0.078956	4.86E-19
BX890604.2	0.26565553	4.94E-19
APIP	0.17037641	4.95E-19
GFM1	0.0901554	4.98E-19
RNF40	0.01190697	5.02E-19
AL356599.1	0.09872471	5.03E-19
ATMIN	0.07405872	5.03E-19
PCNT	0.1623192	5.05E-19
FBXL15	0.06072222	5.12E-19
IL16	0.1657568	5.22E-19
USP3	-0.1567693	5.35E-19
AC123768.4	0.06143831	5.47E-19
TNIP1	-0.2129506	5.48E-19
GPR146	-0.2935092	5.51E-19
SLC37A1	-0.0818648	5.52E-19
BLCAP	-0.1219317	5.55E-19
ZNF618	0.11767396	5.78E-19
DENND3	-0.2697113	5.84E-19
SETD1B	-0.0375152	5.89E-19
WDR26	-0.0665944	5.89E-19
NSMCE3	0.08192672	5.99E-19
SRF	-0.0503964	6.02E-19
IKBKB	0.05240234	6.05E-19
MAPK9	0.14540013	6.10E-19
ALG10B	0.1380086	6.14E-19
USP22	-0.176238	6.15E-19
NR1D2	0.15531255	6.16E-19
PPIH	0.03629628	6.22E-19
RTN4R	-0.2144186	6.27E-19
HIST1H2AC	-0.2183726	6.43E-19
SLC50A1	-0.2094851	6.45E-19
ERVK3-1	-0.1591942	6.52E-19
ALAS1	-0.2058132	6.55E-19
YIF1A	-0.0909108	6.57E-19
MTCH1	-0.2072283	6.57E-19
CTCF	-0.0489108	6.59E-19
DENND1B	0.20698423	6.60E-19
MIR17HG	0.08699515	6.62E-19



PJA2	-0.2899329	6.63E-19
WASHC4	0.19577786	6.70E-19
COIL	0.07891048	6.72E-19
ECPAS	0.11223373	6.86E-19
ST3GAL4	0.15307786	6.90E-19
TFCP2	0.14374164	6.90E-19
SDHAF4	0.11533283	6.95E-19
NINJ2	0.12931762	6.96E-19
UPF3A	0.26703306	6.97E-19
LENG8	-0.2070491	7.01E-19
CISD1	0.08355526	7.16E-19
VIRMA	0.003402	7.19E-19
AGPS	0.10275545	7.27E-19
MID1IP1	-0.2153277	7.28E-19
C2orf69	0.12606083	7.29E-19
ZFP14	0.15112484	7.31E-19
IDH2	-0.1571242	7.34E-19
GATC	0.12359485	7.36E-19
EIF1B-AS1	0.11826637	7.39E-19
NCF2	-0.2743797	7.40E-19
RAB4B	0.12651989	7.42E-19
LINC00205	0.12442833	7.52E-19
GNB4	-0.2084001	7.60E-19
FAM76B	0.10246948	7.65E-19
RC3H1	-0.244934	7.70E-19
CTSZ	-0.1770404	7.81E-19
GNPDA2	0.08842858	7.86E-19
VPS26C	-0.208907	8.06E-19
SNAP29	-0.1971523	8.08E-19
CHMP2B	-0.2291924	8.12E-19
COPE	-0.2854619	8.13E-19
DPM1	-0.1945483	8.14E-19
DTWD2	0.10134686	8.15E-19
TSHZ1	0.06837751	8.18E-19
AASDH	0.09472683	8.23E-19
ACTR10	-0.0929773	8.29E-19
SFT2D1	0.02113812	8.30E-19
ZNF727	0.16535761	8.33E-19
ZNF101	0.08616199	8.41E-19
AQR	0.15129065	8.41E-19
TCF15	0.09832779	8.42E-19
ARMCX6	-0.1670753	8.44E-19
IP6K1	-0.1952223	8.47E-19
NELFE	-0.0336041	8.47E-19
PPTC7	-0.1924132	8.51E-19
FAM192A	0.18675449	8.59E-19
TOR1AIP2	-0.043332	8.70E-19
KBTBD7	0.10740468	8.71E-19
SART1	-0.0065867	8.94E-19
MSRB1	-0.0205236	9.06E-19

OGA	-0.2360231	9.09E-19
TMED8	0.05241199	9.12E-19
RAB22A	-0.2585552	9.13E-19
TOR4A	-0.1606238	9.19E-19
TAPT1	-0.1970934	9.25E-19
ADAM15	-0.196911	9.47E-19
EML3	0.06622805	9.55E-19
SETD3	0.03432924	9.55E-19
NANS	-0.0984274	9.87E-19
SMAP1	0.13439844	1.02E-18
ACTR1A	-0.2352921	1.02E-18
ATP11A	0.09995623	1.02E-18
CLTC	-0.1307152	1.03E-18
PDCL	0.10859807	1.03E-18
MMACHC	0.09484415	1.03E-18
LRCH4	-0.1023716	1.04E-18
PFKFB3	-0.2948193	1.08E-18
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ATP6V1D	-0.1550487	1.09E-18
NOL10	0.09062428	1.10E-18
PDLIM7	-0.0599799	1.12E-18
LIG4	0.13967389	1.13E-18
ZNF681	0.18631677	1.13E-18
ARPC4	-0.1464992	1.13E-18
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NDUFAB1	0.1457379	1.18E-18
CSNK2A2	0.03150964	1.18E-18
CAST	-0.3503422	1.18E-18
RHOH	-0.2014369	1.19E-18
MRFAP1	-0.0716678	1.19E-18
SAFB2	0.10483492	1.20E-18
TWNK	0.13127717	1.20E-18
PLXNB2	-0.226373	1.22E-18
CHPF2	-0.125578	1.27E-18
KLHL24	0.27619794	1.28E-18
PHTF1	-0.1288862	1.28E-18
SHKBP1	-0.1668155	1.31E-18
UBE2R2	-0.2343177	1.32E-18
MYPOP	0.0780871	1.32E-18
TMEM43	-0.1774446	1.33E-18
PDXDC1	0.08261833	1.35E-18
GMFB	-0.1449101	1.35E-18
PELP1	0.10006352	1.40E-18
AGK	0.10260263	1.40E-18
ALCAM	0.24956189	1.42E-18
TAF2	0.05690013	1.42E-18
MYO9A	0.14542823	1.43E-18
VRK2	0.15124588	1.43E-18
LSG1	0.13612609	1.43E-18
CHST14	0.08358106	1.43E-18

NOSIP	0.0356124	1.44E-18
EIF3M	0.26339228	1.49E-18
MDM1	0.12901623	1.50E-18
CYSLTR1	0.16034598	1.50E-18
EPN1	-0.1944036	1.51E-18
TMEM273	-0.2502519	1.53E-18
TRPM7	0.16181895	1.54E-18
MMP24OS	-0.1330411	1.55E-18
NUP54	-0.1047896	1.56E-18
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ITSN2	-0.3035324	1.59E-18
TSR3	-0.0865885	1.59E-18
TET1	0.08585043	1.59E-18
COLGALT1	0.09983203	1.60E-18
SLC25A40	0.10217929	1.61E-18
GPBP1	-0.1912368	1.61E-18
TRPM2	0.10807692	1.61E-18
GBP4	0.21663377	1.62E-18
RELA	-0.1856384	1.63E-18
IRF2BP1	-0.0079175	1.63E-18
AMPD3	0.08115745	1.65E-18
ATP10D	0.17330729	1.68E-18
DNAJC24	0.10725948	1.70E-18
DTWD1	0.23644085	1.72E-18
CDK11B	0.11944533	1.73E-18
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PDLIM4	-0.1929052	1.75E-18
FECH	0.10527672	1.76E-18
CCDC86	0.07681339	1.76E-18
TSN	0.12212923	1.76E-18
EEF1AKMT4	0.08983779	1.78E-18
RAB6A	-0.1751836	1.78E-18
C1GALT1	0.00354339	1.79E-18
PPM1A	-0.1342257	1.79E-18
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STAT6	0.0935229	1.81E-18
CPNE8	0.1622085	1.83E-18
KCTD20	0.09325532	1.83E-18
TXNIP	-0.4732926	1.84E-18
STK10	-0.1904172	1.87E-18
SPATC1L	0.138341	1.88E-18
NSUN3	0.10042173	1.91E-18
TIAL1	0.28261026	1.92E-18
CBFA2T3	-0.0739155	1.94E-18
PHF21A	0.09652227	1.94E-18
ETFRF1	-0.2189487	1.95E-18
MCTS1	0.20938742	1.99E-18
ZNF808	0.05881858	2.00E-18

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TSNAX	0.19940843	2.06E-18
TUFM	-0.2031393	2.08E-18
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NUTF2	-0.1550117	2.12E-18
ABCF2	0.08989843	2.15E-18
FBXL12	-0.1647826	2.16E-18
SCRN3	0.08269712	2.18E-18
METTL23	0.0452888	2.18E-18
LMBRD2	0.10771343	2.19E-18
ATP23	0.12496751	2.23E-18
ACTN4	-0.2649568	2.24E-18
ZNF362	0.07688069	2.25E-18
NMRAL1	0.04703636	2.26E-18
SLC35E2B	0.04516109	2.27E-18
RABL2A	0.0889695	2.28E-18
MAD2L1	0.10628681	2.31E-18
C1orf43	-0.1097668	2.33E-18
MRPS27	0.08729384	2.33E-18
FDX2	-0.1511603	2.36E-18
CARD6	0.13568921	2.36E-18
RBM41	0.17926201	2.37E-18
ERI3	0.0563437	2.37E-18
CAPN7	0.13773492	2.37E-18
CDC37	-0.1429994	2.38E-18
SEMA4D	0.0566722	2.38E-18
VBP1	0.08556268	2.43E-18
DHODH	0.1020816	2.43E-18
GNAQ	0.29730427	2.44E-18
NUDC	-0.0955269	2.48E-18
DMXL1	0.15139065	2.49E-18
CASP1	0.03155451	2.50E-18
ANKRD40	-0.0523746	2.50E-18
TESK2	0.09894792	2.52E-18
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WASHC3	0.07687054	2.53E-18
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ALS2	0.20484348	2.64E-18
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YY1AP1	-0.2034082	2.66E-18
GDE1	0.03062698	2.69E-18
MTFR1	0.08069893	2.71E-18
DIP2A	0.10305133	2.72E-18
GTPBP4	-0.253799	2.75E-18
FADS2	0.08123571	2.77E-18
ATG12	0.22145592	2.79E-18
RRP1	0.06713597	2.81E-18
GDI2	0.34120762	2.83E-18
FXN	0.13106925	2.83E-18

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TRMT10B	0.15061956	2.86E-18
AUH	0.07285387	2.87E-18
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RAD23B	0.12999206	2.94E-18
MAP3K5	0.04183259	2.96E-18
DNAJC11	0.06200161	3.03E-18
MAPK12	0.11152621	3.07E-18
C1orf131	0.11894189	3.10E-18
MGST3	-0.2420339	3.13E-18
AUXG01000	0.11626061	3.13E-18
ZNF280D	0.20292459	3.14E-18
GINM1	-0.2406146	3.15E-18
METTL2B	0.09769739	3.17E-18
LDLRAD4	0.15477765	3.18E-18
MTRF1	0.10098449	3.18E-18
MRPS10	0.07225329	3.19E-18
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NDUFA5	0.11113131	3.22E-18
TMEM60	0.1196011	3.23E-18
PNKP	-0.1404021	3.26E-18
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BCKDHA	0.11921824	3.30E-18
CPSF4	0.06203357	3.31E-18
HACL1	0.09880224	3.31E-18
COPS5	0.1430862	3.34E-18
UCHL5	0.16099237	3.39E-18
NT5C3B	0.08111403	3.41E-18
NXPE3	0.11052167	3.46E-18
PAGR1	0.01536438	3.46E-18
PPP1CC	-0.0089989	3.46E-18
AC083798.2	0.07950013	3.48E-18
CTBP1	0.25869751	3.49E-18
CXorf56	0.029139	3.55E-18
MRPS30	0.1777208	3.67E-18
MPST	0.17646731	3.68E-18
NR2C1	0.01850097	3.68E-18
UTP6	0.19043051	3.70E-18
MRTO4	0.16525594	3.72E-18
AGFG1	0.07454774	3.73E-18
ZCCHC8	0.03519561	3.73E-18
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MRPL44	-0.0176934	3.75E-18
C3	0.10275865	3.84E-18
GABARAPL2	0.21257421	3.90E-18
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CCDC30	0.14192275	3.93E-18
MOSMO	0.10631819	3.94E-18
CLK1	-0.3031525	4.00E-18

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C19orf25	-0.0335185	4.06E-18
RAB37	0.20342287	4.08E-18
FAM120AOS	-0.1064731	4.11E-18
POMGNT1	0.06184018	4.13E-18
DDX56	-0.0605702	4.18E-18
EXOC4	0.07621785	4.21E-18
TMEM165	0.13290902	4.24E-18
SURF1	-0.0001133	4.28E-18
STOML2	-0.0210417	4.29E-18
CALHM2	-0.2075263	4.31E-18
CCNK	-0.1305215	4.33E-18
CERK	-0.1180696	4.34E-18
ELP1	0.0916707	4.35E-18
CHD4	0.32139124	4.37E-18
KMT2B	0.07663759	4.38E-18
MRPL10	-0.1451578	4.38E-18
COL9A2	0.07858497	4.48E-18
GNL3	0.1758943	4.50E-18
SLC6A6	-0.2055884	4.50E-18
TYW1	0.11290916	4.55E-18
GTF3C1	-0.0082427	4.57E-18
HEATR5B	-0.1104767	4.59E-18
RFX7	0.08038592	4.63E-18
AHCY	0.00216558	4.67E-18
AL138963.4	0.06393578	4.67E-18
MOK	-0.1687636	4.68E-18
YTHDF3	0.01556108	4.68E-18
EIF4E	-0.1260542	4.76E-18
RSRC1	0.18533739	4.77E-18
ZNF566	0.14556732	4.79E-18
IFT20	-0.0831466	4.80E-18
EFR3A	-0.040349	4.83E-18
CHTOP	-0.0492089	4.85E-18
TMEM156	0.14316975	4.85E-18
P4HA1	0.19888219	4.93E-18
ARID2	0.02777836	4.95E-18
SUCNR1	0.41617177	4.97E-18
RASAL3	0.16550579	5.00E-18
ATP5MPL	0.33555147	5.03E-18
SLC29A1	0.12363313	5.05E-18
AASDHPPT	0.02021863	5.11E-18
AGO1	0.12497327	5.13E-18
ARCN1	-0.0235499	5.19E-18
MAF1	-0.1411756	5.21E-18
TNFAIP8L1	-0.1286218	5.23E-18
AC138150.1	0.10681893	5.24E-18
PLD3	-0.1178028	5.26E-18
ALDH9A1	0.03511962	5.27E-18
FAM50B	0.062639	5.29E-18

NOTCH1	-0.2419003	5.31E-18
ALG11	0.09709956	5.33E-18
UAP1	-0.0452793	5.36E-18
STXBP3	0.20051266	5.36E-18
USO1	0.21241832	5.41E-18
MARCH3	0.11726063	5.47E-18
SNX13	0.05197226	5.53E-18
PDHX	-0.0053278	5.55E-18
GPN1	-0.0342716	5.70E-18
CCS	-0.0899174	5.71E-18
AP2B1	0.09471519	5.73E-18
WARS2-AS1	0.10714477	5.77E-18
C6orf62	0.1511343	5.82E-18
SAP30BP	-0.2048105	5.82E-18
ATP8B2	-0.2342259	5.94E-18
TMEM220	0.19241002	6.08E-18
TNPO3	-0.0396606	6.10E-18
USP28	0.11013653	6.12E-18
TRMT61B	0.0605163	6.41E-18
DNASE2	0.12352168	6.46E-18
SUPT20H	0.15519476	6.52E-18
AHCYL1	0.16790245	6.53E-18
C3orf38	0.00411355	6.54E-18
AC060780.1	0.2265475	6.60E-18
CASP2	0.17725095	6.65E-18
LENG1	-0.1011314	6.71E-18
ITPRID2	-0.2580989	6.72E-18
SHISA5	-0.0875448	6.87E-18
CIITA	0.2098754	6.88E-18
C16orf87	0.08628148	6.98E-18
C1RL	0.10798558	7.10E-18
PTGER2	-0.2551558	7.22E-18
RCOR1	0.07581485	7.39E-18
DHX33	0.14184276	7.50E-18
NUP50	0.0397835	7.51E-18
RNF19A	-0.2075167	7.55E-18
CBLB	-0.2060866	7.61E-18
RIOK2	0.05391701	7.62E-18
TGIF1	5.9487E-05	7.67E-18
HMGXB4	-0.136771	7.79E-18
GNPTAB	0.3400728	7.80E-18
SLC43A2	-0.3030415	7.84E-18
CKAP5	0.10046525	7.94E-18
MED27	-0.0568558	7.96E-18
IK	-0.0011118	7.98E-18
PHYKPL	-0.162003	8.08E-18
SCAMP4	-0.0271268	8.13E-18
NQO2	0.04524015	8.15E-18
UBE2W	0.06686307	8.16E-18
KDM3B	0.10227171	8.21E-18

UFD1	-0.0272735	8.22E-18
MRPL21	-0.1274457	8.23E-18
ATXN2L	-0.0313136	8.24E-18
TALDO1	0.29881937	8.25E-18
ADAMTSL4	-0.2222042	8.39E-18
GPS2	0.09326814	8.42E-18
EMC8	-0.1703719	8.44E-18
CPD	0.11253425	8.50E-18
SNAP23	0.22044044	8.87E-18
NSMCE1	0.09534531	8.91E-18
MR1	0.09538074	8.93E-18
NBAS	0.0748058	8.94E-18
LRRC8A	-0.2979917	8.96E-18
DGKA	-0.2389339	9.11E-18
PDHB	0.03747842	9.12E-18
BAD	0.03317902	9.14E-18
ZNF746	0.01570632	9.32E-18
CEP76	0.10699964	9.44E-18
C12orf10	-0.1485279	9.49E-18
AC025171.2	0.22665257	9.53E-18
FANCF	0.08532842	9.54E-18
TMEM131L	-0.2173726	9.54E-18
FAAP20	-0.0264889	9.66E-18
ZBTB1	0.15547187	9.68E-18
WEE1	-0.2157368	9.73E-18
COQ9	0.0681723	9.77E-18
TRPC4AP	-0.1250034	9.83E-18
COL4A5	0.16629609	9.87E-18
AL499604.1	0.07728617	1.01E-17
ZMAT3	0.10478971	1.02E-17
PHF1	-0.1704464	1.02E-17
KIAA1586	0.09835586	1.03E-17
PRKX	0.04494007	1.04E-17
STOM	-0.2308605	1.05E-17
CD99L2	0.08017717	1.05E-17
DAZAP2	0.18603366	1.06E-17
PCBP1	0.24431065	1.07E-17
MCM6	-0.0433094	1.07E-17
CCDC71L	-0.0731832	1.07E-17
PNPO	0.06218081	1.08E-17
CPSF3	0.13057602	1.09E-17
MPV17	0.10866761	1.09E-17
MOB4	-0.0592753	1.10E-17
MGLL	0.01088101	1.10E-17
RGS16	0.15837737	1.11E-17
ATG4C	0.13728082	1.13E-17
CCZ1	-0.0075033	1.13E-17
ADRB2	0.20717823	1.13E-17
POLR2I	0.13654946	1.14E-17
NDUFS2	0.19531461	1.16E-17



TGFBR2	-0.1335017	1.17E-17
NCSTN	0.07859905	1.17E-17
WBP11	-0.2188635	1.17E-17
TM4SF1	-0.2358781	1.18E-17
C20orf96	0.08345179	1.18E-17
BTBD2	0.06325174	1.19E-17
MAZ	0.27839034	1.20E-17
CERS2	0.1608052	1.20E-17
CRYL1	0.10944398	1.21E-17
YIPF6	-0.079047	1.22E-17
PAQR3	0.08503764	1.23E-17
NFIL3	0.14871603	1.23E-17
MTX1	-0.1396118	1.23E-17
SPTLC1	0.10448359	1.23E-17
SNRK	-0.0463948	1.23E-17
ANGEL2	0.18259623	1.24E-17
TBC1D8	0.07082158	1.24E-17
HSDL2	0.15587013	1.26E-17
WDR46	0.09761397	1.27E-17
CDK7	0.01064245	1.27E-17
CSKMT	0.17927123	1.29E-17
MAFK	-0.1814283	1.30E-17
PFDN1	0.08562171	1.30E-17
MIS18A	0.10036956	1.31E-17
NUP155	0.09618203	1.32E-17
NFIC	0.22605435	1.34E-17
PXK	0.25990186	1.35E-17
GTPBP6	0.11631475	1.35E-17
CDC42EP2	-0.1459412	1.35E-17
NKIRAS2	-0.108147	1.35E-17
NAGPA	0.09362442	1.35E-17
DEF6	-0.0385568	1.36E-17
TAP1	0.00635639	1.37E-17
ADGRG6	0.15833569	1.37E-17
LSM14B	-0.0228691	1.37E-17
PLEKHA5	0.19504683	1.38E-17
LINC01684	0.17425668	1.38E-17
ORMDL1	0.33563991	1.38E-17
PKD1	0.07768789	1.39E-17
PXN	-0.162602	1.41E-17
SPPL3	-0.1836573	1.41E-17
S100PBP	0.16041297	1.43E-17
EEF1A1	-0.2558085	1.43E-17
NTMT1	-0.1218875	1.43E-17
HK2	0.09667166	1.44E-17
PAXX	-0.0543782	1.45E-17
ZNF585A	0.05703916	1.45E-17
PWWP2A	0.0963281	1.47E-17
SF3B4	-0.0930923	1.49E-17
SLC35B3	0.12229535	1.53E-17

MAP3K12	0.07927674	1.57E-17
ATP6V1A	-0.1670351	1.58E-17
UPF2	0.28786267	1.59E-17
ZNF91	0.23126145	1.59E-17
EBPL	0.26922426	1.59E-17
ZNF346	0.05719883	1.60E-17
ARPP19	-0.2639029	1.60E-17
ZNF667-AS1	-0.0919715	1.61E-17
EIF2AK4	0.14305006	1.61E-17
HSPB1	-0.2639556	1.62E-17
RCBTB1	0.15478139	1.62E-17
RAD54L2	0.04206881	1.63E-17
MRPS14	0.04515367	1.65E-17
INTS13	0.11040141	1.66E-17
FAM222B	-0.0901272	1.68E-17
TMEM42	0.14941703	1.72E-17
HDLBP	0.16471442	1.76E-17
DMAC2L	0.19511496	1.76E-17
ZSCAN16-AS1	0.22022797	1.80E-17
ABHD17B	0.06164458	1.83E-17
SOX12	0.09761862	1.84E-17
KIAA2013	0.12674638	1.87E-17
PSMB9	-0.0486252	1.88E-17
TXNDC12	0.1600748	1.88E-17
NSMCE4A	0.02460034	1.89E-17
DFFB	0.10397506	1.90E-17
AC004540.1	0.12281927	1.91E-17
PLSCR1	-0.0034995	1.92E-17
SPECC1	0.21054162	1.94E-17
LTBP3	-0.1852152	1.95E-17
COPA	-0.1661254	1.96E-17
RPS6KA4	-0.1128405	1.97E-17
FAM136A	0.19037508	1.98E-17
SNX19	0.04136277	1.98E-17
MYDGF	-0.0917016	1.99E-17
MBNL3	0.16032807	2.00E-17
ZNF598	-0.155901	2.00E-17
CCDC106	0.09545263	2.02E-17
MFAP1	-0.1312312	2.03E-17
PPP1R7	0.11338914	2.03E-17
ATP6AP2	0.07311831	2.04E-17
DYRK3	-0.2716847	2.06E-17
KIAA1958	0.15465299	2.08E-17
DDX23	0.16341738	2.11E-17
SNX27	0.11068402	2.14E-17
XPO5	0.10488649	2.14E-17
CFL2	0.10403856	2.16E-17
EPHB6	0.09914491	2.17E-17
TMEM258	0.27936667	2.21E-17
SLC2A4RG	0.13429902	2.22E-17

UIMC1	-0.1308326	2.24E-17
PSMA4	0.25763454	2.24E-17
TTBK2	0.17395663	2.24E-17
TGFBR1	-0.1632704	2.26E-17
RPL11	0.16235664	2.27E-17
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CRLF3	0.07538147	2.29E-17
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MCUR1	0.05649275	2.30E-17
DAP3	0.08526021	2.30E-17
FTSJ3	0.10189577	2.31E-17
ADAM10	0.17420268	2.32E-17
CD63	-0.3128594	2.32E-17
NR2C2	0.01205595	2.32E-17
HIST1H4E	0.1565309	2.33E-17
SUPT5H	0.03629234	2.33E-17
TM2D1	0.18029333	2.34E-17
ALDH3A2	0.10138739	2.36E-17
PSMB6	-0.13957	2.36E-17
TFB2M	-0.0388409	2.37E-17
CSNK1G3	-0.1670012	2.37E-17
VAMP5	0.14163567	2.40E-17
AFF4	-0.1620474	2.40E-17
AC012615.1	0.06514685	2.40E-17
PPFIBP1	0.08239513	2.41E-17
CASD1	0.0907238	2.41E-17
IFNAR2	0.14940751	2.42E-17
CFLAR	0.33904266	2.44E-17
MCRIP1	-0.1418618	2.45E-17
SF3A3	0.05076501	2.47E-17
VAPA	-0.3585618	2.50E-17
C11orf1	0.17290293	2.50E-17
ARRB1	0.22028307	2.52E-17
ASH2L	0.12419974	2.53E-17
ZADH2	0.08511201	2.54E-17
GPATCH4	0.21632522	2.55E-17
DESI2	-0.0981696	2.56E-17
SLC25A39	-0.1050769	2.57E-17
LACTB	-0.1862526	2.61E-17
DBT	0.17036883	2.72E-17
KLHL9	-0.0705902	2.72E-17
SIPA1	0.05699067	2.72E-17
C7orf50	0.1160351	2.76E-17
CLNS1A	0.3062549	2.76E-17
MRPL28	-0.034205	2.81E-17
TSR1	0.10731689	2.85E-17
NADK2	0.13553278	2.89E-17
HSF1	-0.1343543	2.91E-17
ARRDC2	-0.1963049	2.91E-17

DBNL	-0.0852171	2.94E-17
RNPC3	0.19101141	2.96E-17
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PHKG2	0.05961416	3.00E-17
FUT4	0.15075675	3.00E-17
CHMP2A	-0.1976796	3.08E-17
RASSF5	-0.1385004	3.08E-17
ITGB2	-0.2701459	3.12E-17
NUP58	-0.0082618	3.12E-17
TMEM230	0.20508584	3.15E-17
HARS	-0.000572	3.16E-17
B3GAT3	-0.0456169	3.16E-17
SAT2	0.01567687	3.17E-17
LIME1	-0.284138	3.21E-17
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WDR83	0.06294583	3.23E-17
TMEM170B	0.09438521	3.25E-17
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CREB3L2	0.12750408	3.31E-17
ZDHHC2	0.09376586	3.32E-17
LSM4	0.0502598	3.35E-17
HPS6	-0.0786214	3.38E-17
AC015802.6	0.08488573	3.41E-17
VSIG10	0.03406707	3.41E-17
VWF	0.32999698	3.44E-17
TSFM	0.04868088	3.44E-17
EFCAB14	0.16989442	3.45E-17
NEK7	0.09622174	3.47E-17
NDUFV1	-0.1323811	3.49E-17
UQCC3	0.08066175	3.53E-17
ALKBH5	0.09046522	3.55E-17
RO60	-0.0874499	3.58E-17
AL022311.1	0.01349357	3.61E-17
FRYL	0.12754209	3.62E-17
PPM1H	0.11586438	3.63E-17
RNF135	0.07616757	3.64E-17
COPZ1	-0.0626944	3.65E-17
MAP3K1	-0.2445479	3.66E-17
SMPD2	-0.1667492	3.68E-17
RCHY1	-0.1330317	3.70E-17
ICAM2	-0.1699702	3.87E-17
ZNF830	0.21060088	3.88E-17
ZNF333	0.05392392	3.90E-17
STT3A	0.11561908	3.90E-17
ZNF414	-0.1400228	3.90E-17
TOR1A	0.04094501	3.91E-17
CYP4V2	0.09280725	3.93E-17
CCDC90B	0.03585528	3.94E-17
GPN3	0.04708852	3.99E-17
EXOC2	0.09325791	4.03E-17

TARS	-0.1182525	4.04E-17
RPL26L1	0.13035008	4.09E-17
HEMK1	0.10969733	4.11E-17
CMPK2	0.11698144	4.13E-17
WDR74	0.0910495	4.15E-17
C5orf63	0.1181828	4.20E-17
C21orf62-AS	0.12944998	4.21E-17
TBC1D15	-0.1492884	4.21E-17
HIVEP1	-0.2920864	4.27E-17
RPL24	0.17697574	4.30E-17
HERC4	0.22303149	4.31E-17
DLG5	0.05960062	4.32E-17
BMF	-0.1699014	4.32E-17
BUB3	0.11446205	4.37E-17
PPP2R2D	0.00518974	4.39E-17
CNOT9	-0.0923263	4.43E-17
C14orf119	-0.0667592	4.45E-17
TRPT1	0.12759187	4.46E-17
CRKL	-0.0588665	4.46E-17
ATG16L2	0.05319809	4.49E-17
PLEKHA2	-0.0835368	4.49E-17
TPP1	0.12262112	4.52E-17
SON	0.24771987	4.53E-17
HPF1	0.18290226	4.58E-17
OSCAR	-0.2002884	4.66E-17
CCP110	-0.0055511	4.68E-17
ANKRD17	0.20042258	4.68E-17
FAM76A	-0.1646215	4.69E-17
ADO	0.03773414	4.71E-17
CSNK1E	-0.1030229	4.83E-17
PPP2CB	-0.1033395	4.83E-17
MAP10	0.07208945	4.84E-17
RHBDF2	-0.2313485	4.91E-17
CCDC61	0.05446678	4.91E-17
SERGEF	0.06513876	4.92E-17
PIGL	0.06794535	4.92E-17
RAF1	-0.0690791	4.94E-17
MORC2	0.1858589	4.96E-17
DNAJC4	-0.0113909	5.03E-17
SEPHS2	0.12184654	5.03E-17
NUP160	0.04874038	5.05E-17
MZT1	0.07199507	5.10E-17
MAPK6	0.09824411	5.17E-17
MCM4	-0.0300262	5.17E-17
PLIN3	-0.2369003	5.17E-17
MIIP	0.06206574	5.19E-17
CFAP97	0.2282173	5.19E-17
AC005332.6	0.06686327	5.20E-17
C17orf80	0.09566188	5.24E-17
CTU1	0.00236809	5.24E-17

PRSS21	-0.1624209	5.29E-17
SLC35E3	0.20890993	5.32E-17
POLR1A	0.10270315	5.33E-17
KCMF1	-0.2494449	5.34E-17
BRD9	-0.0103453	5.35E-17
MKRN1	-0.1203428	5.36E-17
PINK1	0.0547981	5.37E-17
TM9SF1	-0.1067748	5.38E-17
C19orf48	-0.0079314	5.39E-17
SERTAD2	-0.1434673	5.40E-17
NUP85	0.07578868	5.43E-17
SERINC5	0.1546483	5.46E-17
UTP20	0.14881254	5.46E-17
DHRS7B	0.05588463	5.52E-17
POC5	0.11458725	5.53E-17
SELENOO	-0.0092056	5.62E-17
SCO2	-0.1367031	5.64E-17
RDH14	-0.0520074	5.69E-17
RANBP6	0.11562529	5.69E-17
SPON2	-0.1319138	5.75E-17
PSMD14	-0.0901895	5.75E-17
TTC32	0.10154485	5.79E-17
PPP1R9B	0.02645237	5.83E-17
ATP5PF	0.27802891	5.84E-17
GYG1	0.00868273	5.96E-17
ALKBH2	0.09522968	5.97E-17
MARC2	0.07125261	6.03E-17
ASXL2	0.07829559	6.03E-17
TIMM23	-0.1074313	6.05E-17
CLN8	-0.1607016	6.06E-17
EDEM2	0.1198707	6.09E-17
NUTM2A-AS	0.17347483	6.12E-17
PPP2R5D	0.05974913	6.14E-17
THOC6	0.10058877	6.25E-17
IL4I1	-0.1592196	6.25E-17
NELFB	-0.0049584	6.32E-17
RBCK1	-0.1397994	6.32E-17
DGKE	0.19589327	6.36E-17
SAR1B	0.06391213	6.37E-17
OSBPL5	0.09785951	6.40E-17
RTCB	-0.0626774	6.43E-17
USP39	0.03149524	6.45E-17
RCC1	0.06203394	6.49E-17
CDKL3	0.07627298	6.52E-17
FAM92A	0.12093486	6.57E-17
RFFL	0.06621901	6.61E-17
GIGYF1	0.04292768	6.66E-17
B9D2	-0.1446241	6.66E-17
MSRA	-0.0615231	6.73E-17
CUL4B	0.14256523	6.78E-17

TMTC4	0.04273588	6.85E-17
COA5	0.11023509	6.86E-17
NLRP2	0.06972265	6.90E-17
STRADB	0.10166111	7.03E-17
AL355488.1	0.07420886	7.17E-17
BTN3A1	0.07912014	7.22E-17
SLC30A1	-0.2138863	7.26E-17
INTS3	0.04286374	7.29E-17
DNAH14	0.13459639	7.34E-17
CCDC58	0.1149338	7.36E-17
SIPA1L3	0.10864025	7.36E-17
AC009107.2	0.04563396	7.49E-17
EIF4A3	0.06279136	7.49E-17
RPS6KA5	-0.2703403	7.55E-17
SLC30A7	0.09029228	7.55E-17
KHSRP	0.14256534	7.67E-17
ALKBH7	0.36222556	7.67E-17
UBXN6	-0.0230023	7.73E-17
MBTD1	0.14365136	7.73E-17
LINC00909	0.17760322	7.80E-17
SLC30A6	0.07953169	7.81E-17
EIF2D	0.01702263	7.89E-17
RFX8	0.08906864	7.95E-17
CARD9	0.11222223	7.97E-17
UPK3BL1	0.00034121	8.13E-17
RRS1	0.13726386	8.13E-17
TRRAP	0.11112437	8.16E-17
ASB16-AS1	0.09007626	8.28E-17
SDE2	-0.2197634	8.28E-17
USP36	-0.0809491	8.39E-17
PCIF1	-0.2406183	8.46E-17
CDADC1	0.12609881	8.47E-17
OXLD1	0.01531825	8.68E-17
AFMID	0.14199787	8.71E-17
TOR2A	-0.0438754	8.71E-17
MTRES1	0.0536907	8.78E-17
ZNF226	0.06288815	8.78E-17
DUSP18	-0.2347388	8.87E-17
ERAP2	0.0925745	8.87E-17
MYO15B	-0.0954061	8.94E-17
USP47	-0.1828539	8.99E-17
MGAT4A	0.05534209	9.04E-17
ATXN3	0.11296062	9.07E-17
FLI1	0.06059594	9.07E-17
PRPF18	0.09124246	9.10E-17
EIF2A	0.22459931	9.11E-17
TNFSF14	0.07575928	9.15E-17
NDUFS1	0.19765765	9.23E-17
TBL1XR1	0.20484993	9.30E-17
C12orf65	-0.2036137	9.30E-17

CDK14	0.12309234	9.32E-17
TAPBP	-0.2670678	9.32E-17
DNAJC9	-0.0579654	9.35E-17
COPB2	0.03205804	9.36E-17
MOSPD1	0.04710588	9.38E-17
POLR2D	0.14393969	9.38E-17
TRAPPC6A	0.09900673	9.50E-17
ARNT	0.05570614	9.57E-17
GET3	-0.0091753	9.59E-17
MARS	-0.1773252	9.77E-17
RPL22L1	0.36822357	9.86E-17
PDIK1L	0.06976968	9.93E-17
VAMP3	-0.0945796	9.93E-17
STRN4	-0.1178589	1.00043E-16
USP15	-0.3244444	1.00578E-16
WRN	0.13141102	1.01721E-16
BCAP31	-0.2365327	1.02264E-16
SASH3	-0.1057925	1.03538E-16
UBA3	0.16468198	1.04603E-16
TRAPPC8	0.01154945	1.0502E-16
DNAJC21	0.22083412	1.07184E-16
IREB2	-0.0161584	1.07248E-16
LMAN1	0.15604357	1.08942E-16
SLC10A3	-0.1497645	1.09854E-16
CAP1	-0.3227314	1.10262E-16
CNPPD1	-0.0635328	1.10329E-16
TCP11L2	-0.2909254	1.10462E-16
TMEM87B	0.03135882	1.12842E-16
EEA1	0.21741892	1.12911E-16
NDUFA10	0.06842883	1.13102E-16
AC036176.1	0.0577031	1.14016E-16
TPST2	-0.1831059	1.14183E-16
MED6	-0.1083777	1.14196E-16
C19orf12	-0.1291266	1.14764E-16
PPP1CA	-0.1546844	1.15922E-16
PEF1	-0.1961253	1.161E-16
GLRX3	0.10577109	1.16423E-16
GABPA	0.10274318	1.16762E-16
GOPC	0.12398484	1.17411E-16
BLOC1S4	0.00864722	1.18088E-16
PAIP2	-0.3411229	1.18986E-16
PGBD4	0.1072056	1.19103E-16
PTBP1	0.0220207	1.21907E-16
PTMA	0.24871891	1.2232E-16
WDR73	-0.0956035	1.25719E-16
UBE2Q2	-0.2306744	1.28869E-16
SLC35B1	-0.1059468	1.30055E-16
APEH	0.09783722	1.30253E-16
BCL2L12	0.03806651	1.33574E-16
TBC1D2B	-0.0802371	1.33601E-16



NDUFA9	-0.0825037	1.34024E-16
INPP4A	-0.0482881	1.35535E-16
MED21	0.12855842	1.35734E-16
SNX20	0.05462602	1.35984E-16
LCP2	-0.0045349	1.36434E-16
NUP98	-0.1650544	1.37393E-16
YWHAG	-0.2618268	1.38027E-16
CCDC115	0.10863049	1.39204E-16
AC026471.1	0.05861392	1.39231E-16
ELP2	0.1216542	1.40608E-16
AC005562.1	-0.0149206	1.42186E-16
CFAP44	0.09393224	1.42573E-16
CHMP4B	0.01613122	1.42782E-16
TERF1	0.12472111	1.43021E-16
PITPNA-AS1	0.01985326	1.44428E-16
ATAD1	-0.0032182	1.46183E-16
SIRT7	-0.0621453	1.46445E-16
SFT2D3	0.04971294	1.47088E-16
GPSM1	-0.1513654	1.47418E-16
PLA2G4A	-0.0884414	1.47531E-16
TTC5	0.10922595	1.48268E-16
TIMM13	0.24959047	1.4838E-16
NNT-AS1	0.14678724	1.48865E-16
TPT1-AS1	0.09810161	1.51691E-16
ERF	-0.255667	1.51856E-16
TENT4B	-0.0146265	1.53086E-16
SLC2A3	-0.2950955	1.53963E-16
SMARCA5	0.25970332	1.55101E-16
CEPT1	0.08998547	1.57753E-16
SYMPK	0.02072501	1.58709E-16
TTC28-AS1	0.10231907	1.59148E-16
EBLN3P	0.12530791	1.59262E-16
SCARB2	-0.204654	1.62521E-16
HDAC1	0.16201558	1.64268E-16
LEMD3	-0.0886608	1.64762E-16
CHML	0.25073382	1.68008E-16
RASA2	-0.2176007	1.68144E-16
CBR4	0.13085633	1.69798E-16
BRCC3	0.12777948	1.70825E-16
CDCA4	-0.1628419	1.73027E-16
CXXC1	0.11579858	1.73347E-16
SLC17A5	-0.1692437	1.74847E-16
ANKRD10	0.0734108	1.79084E-16
FBXO42	-0.0192173	1.7962E-16
DROSHA	0.06623665	1.79645E-16
SENP5	-0.0569881	1.7989E-16
SOCS5	0.05814537	1.80744E-16
GIMAP2	0.06007246	1.80931E-16
TTLL3	0.00415128	1.8116E-16
GOLGA8A	0.10881629	1.81301E-16

TXLNG	0.05051185	1.82556E-16
TLNRD1	-0.1827147	1.84342E-16
HADHB	0.04918564	1.85191E-16
RETREG2	0.11771108	1.86927E-16
LEO1	0.02814103	1.88321E-16
ZBTB38	0.13290338	1.8885E-16
TLK2	-0.0110324	1.90108E-16
MRPL9	-0.0494898	1.90744E-16
DKC1	0.22556759	1.93553E-16
C12orf29	0.11475695	1.94618E-16
PRRC2A	0.04998571	1.94673E-16
FAM219B	-0.1550321	1.94742E-16
ACO2	-0.0087163	1.95275E-16
TAGAP	-0.1350771	1.96475E-16
RAB5C	-0.2444686	1.97259E-16
SAC3D1	0.13545862	1.98218E-16
HAUS4	0.0333947	1.99837E-16
SUPT7L	-0.0760341	2.00175E-16
RAB1B	-0.0452366	2.0252E-16
LRRRC41	-0.0352931	2.0376E-16
PLEKHH3	-0.1618151	2.04939E-16
RPE	0.10864172	2.06629E-16
POLR2B	-0.0623001	2.08032E-16
PAN3-AS1	0.14257006	2.09324E-16
DDX19A	0.07434368	2.09586E-16
CASP7	-0.1565091	2.11941E-16
BACE1-AS	0.08912617	2.12847E-16
SPRTN	0.07291879	2.13029E-16
SGPL1	-0.1480652	2.15326E-16
ERVK13-1	0.04993084	2.16128E-16
DRG1	-0.0053769	2.18395E-16
LINC02693	0.07255777	2.20788E-16
RAD51-AS1	0.0956303	2.21201E-16
EEFSEC	0.10274867	2.21421E-16
MAP7D3	0.13849414	2.22385E-16
VPS45	0.10169997	2.26794E-16
DCUN1D4	0.03111362	2.27723E-16
CCNC	-0.0488208	2.28914E-16
HINT3	0.08319856	2.29339E-16
KDM5B	-0.3669082	2.31759E-16
FRA10AC1	0.15122497	2.32077E-16
TMC3-AS1	0.07819651	2.36642E-16
MRPL16	0.10043602	2.3784E-16
PEX3	0.04307563	2.39196E-16
MRPL41	-0.0862053	2.40255E-16
ZDHHC3	0.02442431	2.40565E-16
CPNE3	0.2150852	2.41132E-16
THAP4	-0.0115183	2.43192E-16
PUF60	-0.1570228	2.43663E-16
SERPINB1	0.35377559	2.46172E-16

RASSF2	-0.1351193	2.46718E-16
SUZ12	0.1315651	2.51054E-16
PARP8	0.03263057	2.51405E-16
RLIM	-0.2189729	2.54444E-16
PAXIP1	0.06044301	2.5517E-16
USP19	0.06751086	2.55232E-16
SPIN1	0.14502845	2.5721E-16
RNF10	-0.2544743	2.59757E-16
PAPSS1	0.09691034	2.61245E-16
PRSS2	-0.7246676	2.61487E-16
FIP1L1	-0.0922302	2.63782E-16
ALG13	0.11841122	2.64126E-16
ERICH1	0.15280777	2.65322E-16
MRPS12	0.18503872	2.66465E-16
TMED1	-0.0533575	2.66583E-16
GLTP	-0.147258	2.6758E-16
ANKIB1	0.13536276	2.69099E-16
PPP1R8	-0.0669048	2.73831E-16
CNOT1	-0.1103463	2.73961E-16
DHX15	-0.0671503	2.76733E-16
MRPS18A	-0.1273038	2.79163E-16
CASC3	0.02192075	2.79851E-16
NAF1	0.02378634	2.80332E-16
TFDP1	0.08208455	2.81648E-16
AC093673.1	-0.1345516	2.81714E-16
LETM1	0.07228694	2.81929E-16
L2HGDH	0.11844394	2.82627E-16
TBC1D20	0.02223437	2.89617E-16
SMARCB1	0.03616815	2.89659E-16
MRPL40	0.13693736	2.90697E-16
ZNF639	0.06765057	2.91943E-16
MAPKAPK5	0.03676948	2.94427E-16
GUCY1B1	0.12651216	2.95208E-16
SKP2	0.07858885	2.96424E-16
TBRG4	-0.0410986	2.97973E-16
CNPY3	-0.235001	2.97975E-16
FAM91A1	0.00479607	3.0237E-16
YBEY	0.06336426	3.03929E-16
ZNF350	-0.0079385	3.04193E-16
LDAH	0.11643578	3.10921E-16
TMED9	-0.0530749	3.11573E-16
C5orf15	0.0125614	3.12252E-16
ZNF428	-0.1126536	3.12652E-16
LANCL1	0.035534	3.13091E-16
MED8	-0.149841	3.16909E-16
FAM20B	0.13349045	3.17391E-16
PHACTR1	0.15363785	3.19218E-16
JAK1	0.16263668	3.22862E-16
ZBTB11	0.00612653	3.25586E-16
EIF2S1	-0.1504777	3.27101E-16

ISCA1	-0.0957329	3.27975E-16
RP2	-0.1507405	3.37261E-16
CRK	-0.2556508	3.3785E-16
KAT14	0.10361379	3.39423E-16
GPAA1	-0.0820215	3.46493E-16
PAQR7	0.08046927	3.50357E-16
MPHOSPH10	0.1463003	3.52403E-16
DEXI	-0.0122114	3.54331E-16
DPY19L2	0.13963926	3.56779E-16
IL6R	-0.1950104	3.58992E-16
RABGEF1	-0.2114532	3.62264E-16
INAFM2	0.0928818	3.6571E-16
METTL3	0.06407283	3.66419E-16
GCNT1	0.22210206	3.66557E-16
ZNF410	-0.1475417	3.67296E-16
ADNP2	-0.2172654	3.70643E-16
KLHL23	0.05596606	3.74845E-16
CORO7	-0.1785223	3.76813E-16
ANGPTL6	0.07366121	3.79774E-16
C5orf51	0.0298635	3.80227E-16
LRG1	0.09786556	3.84477E-16
CFAP298	-0.0193124	3.86421E-16
RRP1B	0.14307928	3.86443E-16
TATDN1	0.22350815	3.93221E-16
PACRGL	0.0847678	4.00607E-16
CLK4	-0.0713075	4.01673E-16
HPS3	0.11767533	4.04599E-16
RBM22	-0.1205435	4.07432E-16
WDTC1	0.0521769	4.07497E-16
ACBD6	0.12052046	4.07826E-16
SCFD1	-0.1372464	4.09543E-16
UBAP2L	0.08823441	4.1024E-16
OTUD4	-0.0390095	4.12886E-16
SLC35F2	0.05808546	4.13624E-16
PIWIL4	0.09817537	4.17419E-16
RASA3	0.16302243	4.1823E-16
HTATSF1	-0.0963548	4.20679E-16
TMEM9B	-0.0092606	4.24039E-16
NASP	0.19850689	4.24388E-16
CISD2	0.12870178	4.34539E-16
SIGMAR1	0.09904888	4.36102E-16
RIC8A	-0.1066197	4.37042E-16
COPS3	-0.1130556	4.38935E-16
MACROD1	0.05901191	4.40659E-16
ATG10	0.08668518	4.4698E-16
SCHIP1	0.15248493	4.47942E-16
PPP3R1	-0.2425951	4.52229E-16
GM2A	0.15545637	4.52581E-16
GUF1	0.10373154	4.52697E-16
LETMD1	0.11029028	4.54471E-16

HSPA14.1	0.05796238	4.54521E-16
RANBP2	-0.2539788	4.5601E-16
SLC25A33	-0.0121418	4.62366E-16
CEP170	-0.2768373	4.62802E-16
MED12L	0.10611221	4.65714E-16
PPP4R2	-0.2284523	4.69727E-16
LARP4B	0.09836673	4.72101E-16
RAB3GAP2	-0.005836	4.7631E-16
ANTKMT	0.04651767	4.81034E-16
CAAP1	0.11002784	4.85174E-16
RIOX2	0.17787535	4.86509E-16
IRF3	0.1365526	4.87296E-16
CHKA	0.078507	4.89265E-16
VPS13B	0.11038712	4.91248E-16
ACBD5	0.06667934	4.93294E-16
AC245297.3	0.18514894	4.94011E-16
ZNF766	0.14527599	4.96287E-16
POLD2	0.09708823	4.98114E-16
CLIP2	-0.0741743	4.98505E-16
GNPAT	-0.0211632	4.99112E-16
TMEM18	0.16712372	5.00147E-16
PIP4P1	-0.1394474	5.0185E-16
PTGES2	0.00024864	5.04344E-16
SLC52A2	-0.0487569	5.0519E-16
ATP9B	0.08750974	5.09368E-16
ZNF260	0.09080998	5.10527E-16
TEX10	0.08754466	5.14172E-16
FHOD1	-0.015937	5.14625E-16
NOP2	0.07793534	5.20909E-16
GCSAML	0.22065949	5.23908E-16
GLG1	0.09807629	5.25836E-16
DGKZ	-0.127744	5.30692E-16
CNIH4	-0.1367355	5.37466E-16
RAP1A	-0.2616625	5.38992E-16
PRPSAP2	0.05669918	5.41031E-16
TMEM68	0.07961864	5.41693E-16
PNPLA4	0.08274676	5.49285E-16
RSPRY1	-0.1216006	5.49759E-16
ZBTB26	0.04253049	5.54675E-16
FOXK1	-0.0099557	5.55635E-16
PEPD	0.07406672	5.56195E-16
AC006504.5	0.12755866	5.60802E-16
CEP162	0.17502582	5.61575E-16
ATXN10	0.07803449	5.62529E-16
KATNA1	-0.1579643	5.66121E-16
C1orf109	0.07758151	5.70138E-16
TAPBPL	-0.1676687	5.70894E-16
SRP68	-0.0232138	5.74727E-16
TPD52L2	-0.0319599	5.84387E-16
CASC4	0.09813696	5.89359E-16

C4orf46	0.08655594	5.90738E-16
MCCC2	0.11332646	5.9092E-16
USP20	0.07322946	5.9994E-16
PHC2	-0.039205	6.07919E-16
HAUS3	0.08182413	6.07945E-16
BAG2	0.11478479	6.09349E-16
SLAIN2	-0.0289775	6.09508E-16
KAT6A	-0.2305938	6.1404E-16
MAP4	-0.061268	6.21191E-16
TBC1D10C	-0.1221669	6.26974E-16
ZNF587	0.09655416	6.53743E-16
WAC-AS1	0.2257366	6.58195E-16
VPS4A	-0.075159	6.58225E-16
TIMM10	0.02714123	6.63167E-16
ZNF720	0.14295729	6.6602E-16
TRIM24	-0.0062911	6.68567E-16
GALK1	0.07434895	6.68576E-16
GAPVD1	-0.0100386	6.69666E-16
KDSR	0.13036936	6.74385E-16
MRPS11	0.13052122	6.8979E-16
FGFRL1	0.03418373	7.03177E-16
CD164	0.3743306	7.04966E-16
RALB	-0.0817665	7.07985E-16
RABL6	0.05661807	7.14116E-16
DNMT3A	0.13567855	7.14801E-16
MRPS16	0.00144485	7.16436E-16
EVL	-0.0828714	7.18901E-16
ANKLE1	0.1034054	7.20659E-16
SAP30L	0.01299559	7.26788E-16
RHOQ	-0.0990309	7.31587E-16
CCDC82	-0.1624481	7.3193E-16
ATP11B	-0.0755755	7.34354E-16
CREB3	-0.167579	7.38039E-16
AL135925.1	0.07341328	7.39464E-16
EPB41L4A-A	0.20053677	7.39915E-16
PGS1	0.10073393	7.40044E-16
LARP1B	0.08589331	7.49427E-16
PHACTR4	0.14065757	7.50223E-16
AP2S1	0.04604549	7.58621E-16
ADPRM	0.07409233	7.72641E-16
C4orf48	-0.2866492	7.73036E-16
AC092329.4	0.02115051	7.75965E-16
RB1CC1	-0.282056	7.77167E-16
ALG2	-0.1375711	7.80505E-16
DNAJB4	0.09534944	7.87304E-16
BABAM1	-0.0033417	7.91102E-16
ILK	-0.0414786	7.98229E-16
RASSF1	-0.0385537	8.03281E-16
RAB11B	-0.0570944	8.04048E-16
SCAI	0.12824115	8.06581E-16

MED12	0.11377559	8.07966E-16
TFE3	-0.1013102	8.11888E-16
GTF3C3	0.07263725	8.1316E-16
ZNF519	0.0887622	8.14289E-16
ATL2	0.11859864	8.19302E-16
DEGS1	-0.1665675	8.24176E-16
ETFA	0.08319163	8.30682E-16
PAICS	0.16644051	8.44966E-16
ELK4	0.0197088	8.45685E-16
MTMR9	-0.1297285	8.51522E-16
DCAF8	0.06325762	8.52196E-16
BCAS2	-0.1590043	8.54068E-16
JARID2	-0.1568585	8.55369E-16
SEC22C	-0.1643233	8.56587E-16
RSAD2	0.09615348	8.59315E-16
ELOF1	-0.0860309	8.66549E-16
SH3BP1	-0.1356337	8.75557E-16
NOA1	0.09736982	8.81235E-16
ERGIC2	0.08833368	8.81543E-16
PRPSAP1	0.1348705	8.88561E-16
ZNF600	0.03290971	8.89796E-16
ATP2A3	0.15613696	8.90388E-16
TMEM33	0.06898521	8.93783E-16
MVB12A	0.02883585	8.95463E-16
BTD	0.07674387	9.02701E-16
COA7	0.0784205	9.03752E-16
FBXW7	-0.1603895	9.06723E-16
PTBP2	-0.1991708	9.16916E-16
NCBP2AS2	0.13013754	9.31086E-16
PITRM1	0.05639827	9.32643E-16
GGA2	0.10659058	9.40288E-16
ZBTB37	0.16233054	9.45068E-16
PSEN1	-0.0839123	9.48726E-16
LGALS3BP	-0.2492657	9.69135E-16
LATS1	0.05971495	9.7075E-16
COMMD2	-0.0223467	9.80811E-16
AARSD1	0.03216169	9.89431E-16
ZNF761	0.08796834	9.94283E-16
ZNF551	0.06589817	1.00662E-15
CEP104	0.10650878	1.00685E-15
CCDC18-AS	0.17361094	1.00977E-15
CLPTM1	-0.035599	1.01171E-15
REEP4	-0.0312215	1.01697E-15
RNF141	-0.0082572	1.02654E-15
GALNT4	-0.2047301	1.0295E-15
TRAPPC2	0.059584	1.04409E-15
FAM89A	0.0794064	1.04483E-15
BIRC2	0.0649387	1.04831E-15
SSNA1	0.00396443	1.05577E-15
KLHDC1	0.08191699	1.06087E-15

ID3	-0.2619272	1.06426E-15
MMAB	0.07792401	1.06932E-15
AGO4	0.05803536	1.08734E-15
MFF	0.05772579	1.09E-15
NFATC2IP	-0.0403145	1.09854E-15
AF117829.1	0.10264977	1.1076E-15
WBP1L	-0.1547889	1.11294E-15
RUFY3	-0.01842	1.12523E-15
TRIM4	0.08671061	1.13419E-15
NCAPD3	0.07985583	1.13452E-15
ZBED1	0.11588248	1.13588E-15
GCDH	0.06631214	1.14456E-15
TJAP1	0.00923281	1.14639E-15
ARFGEF1	0.06078401	1.14692E-15
NOL6	0.08135185	1.14698E-15
GMNN	-0.0596528	1.14793E-15
SLC66A2	-0.1207974	1.15491E-15
CSF1R	0.12773984	1.16917E-15
DNAJB12	-0.0948985	1.17114E-15
ADARB1	0.10321234	1.17194E-15
SMIM24	0.41996367	1.17715E-15
PRPF4	-0.0414824	1.1776E-15
IRAK4	0.16133194	1.18019E-15
C8orf33	0.11276939	1.18112E-15
USP10	-0.0219159	1.18205E-15
MTHFD1L	0.09682004	1.18652E-15
GTF3C6	-0.100717	1.18807E-15
ADSL	0.07949761	1.19435E-15
ACAD8	0.03038144	1.19457E-15
ARL6IP4	-0.2974512	1.20317E-15
KIAA2026	0.10072229	1.20786E-15
MRPL12	0.09153424	1.20916E-15
ABCB7	0.13367768	1.21309E-15
TAF7	0.29720349	1.21652E-15
DDX52	0.0348418	1.21686E-15
CTDSP1	-0.085777	1.22029E-15
NMT1	0.06494948	1.23361E-15
UCHL3	-0.0180909	1.23767E-15
C22orf39	0.00200545	1.23987E-15
SNHG15	-0.2056157	1.24914E-15
UBR5	-0.188365	1.25584E-15
CHP1	0.01806849	1.25652E-15
AKAP1	0.13161151	1.26069E-15
ARSB	0.08948305	1.26196E-15
SOAT1	0.12495336	1.2641E-15
AAK1	0.21928497	1.26672E-15
PAK1IP1	0.1735383	1.27065E-15
CUX1	0.24062381	1.27183E-15
NSUN5	0.10553078	1.28123E-15
NFATC3	0.08793653	1.29447E-15



CHAMP1	-0.1085899	1.29522E-15
GTF2E2	0.06051915	1.29782E-15
PARL	0.09503005	1.31297E-15
HDHD3	0.00721934	1.31607E-15
STAU1	-0.1339726	1.32872E-15
FAM214A	-0.0222594	1.33568E-15
ZNHIT3	-0.018792	1.35708E-15
RSRP1	0.32942683	1.36667E-15
SMARCC2	0.23205447	1.36972E-15
SMYD3	0.15908857	1.37176E-15
GOT2	0.05214001	1.4011E-15
STN1	-0.026654	1.40493E-15
PDRG1	-0.1498175	1.41543E-15
MAN2C1	-0.0490377	1.41671E-15
DNPEP	0.07481631	1.41719E-15
EA2F2	-0.1930962	1.41976E-15
GMDS-DT	0.11794454	1.43729E-15
DPY19L3	0.12783204	1.44823E-15
CLK2	0.02717078	1.45224E-15
ARIH1	-0.1678491	1.45241E-15
AIFM1	0.14428996	1.45617E-15
CD151	-0.2070876	1.46562E-15
CTNND1	0.13696499	1.50037E-15
MFSD12	-0.1283639	1.50113E-15
RNF149	-0.2251094	1.50827E-15
PLIN2	0.1650069	1.50854E-15
ZFP64	0.06784733	1.51084E-15
ST8SIA4	0.0482048	1.5204E-15
TNPO1	0.09592795	1.53156E-15
SDF2	-0.0616464	1.53574E-15
MKRN2	-0.091975	1.54264E-15
NCK1-DT	0.14238102	1.54815E-15
ZBED3	0.00596232	1.55206E-15
EIF3G	-0.329236	1.55619E-15
TMCC1	0.0590354	1.55982E-15
CNP	0.07393117	1.56658E-15
UBE2L6	-0.0250272	1.56871E-15
AL009179.2	0.1011555	1.57117E-15
STAT3	-0.1590523	1.57152E-15
ZNF546	0.08828265	1.57175E-15
CLUAP1	-0.0190772	1.5982E-15
RICTOR	-0.211511	1.60858E-15
KMT2C	-0.0934119	1.62112E-15
MVP	-0.1805818	1.63243E-15
LAT2	0.31911498	1.63723E-15
XPO4	0.03732921	1.65532E-15
HNRNPH2	-0.1379052	1.66735E-15
CTSB	0.06064241	1.67007E-15
RASAL2	0.11475962	1.68996E-15
PAF1	-0.2207017	1.69592E-15

CES2	0.04555534	1.69895E-15
RABGGTB	0.10177728	1.6993E-15
UPF3B	0.18036006	1.69993E-15
SPSB3	-0.0616081	1.70283E-15
NIN	0.1867412	1.70431E-15
OTUD5	-0.1098538	1.71374E-15
MRPL24	0.16630823	1.71471E-15
KCNQ5	0.13718661	1.73609E-15
NPEPPS	-0.2211563	1.7532E-15
FTCDNL1	0.1138686	1.75356E-15
CRCP	0.02706825	1.75442E-15
ENDOV	-0.0966677	1.75479E-15
AC090825.1	0.08710884	1.76292E-15
KIAA1549	0.07376052	1.76307E-15
MIF4GD	0.06372019	1.76323E-15
SLF2	0.09400423	1.78424E-15
MIGA1	0.0066945	1.78675E-15
ZCCHC17	-0.0212836	1.8248E-15
ANAPC1	0.09925183	1.82924E-15
ITCH	-0.1349411	1.83115E-15
ZNF70	0.07528493	1.83254E-15
CPOX	0.06352032	1.83489E-15
PBX3	-0.2634824	1.83519E-15
S100A1	-0.264238	1.83541E-15
MYL6B	-0.0509238	1.8406E-15
SNX15	0.04558605	1.86952E-15
MRPL36	0.02538488	1.87576E-15
SFSWAP	-0.0321684	1.87705E-15
ZNF738	0.03559894	1.90027E-15
TEN1	-0.054084	1.91031E-15
FARSB	0.12374495	1.91764E-15
CCDC126	0.06802659	1.9368E-15
CREBBP	0.0101399	1.94318E-15
FBXO3	-0.0801224	1.94763E-15
ARHGEF9	0.05463422	1.96917E-15
TLR4	0.08698294	2.02367E-15
AATF	-0.0004605	2.02452E-15
PPP2R3C	0.0778472	2.02494E-15
C1orf52	-0.1268395	2.0276E-15
GALT	0.0397844	2.0322E-15
MGME1	0.05863956	2.03805E-15
FAM118A	-0.1206563	2.05087E-15
HACD2	0.09125615	2.06028E-15
DNMT3B	-0.0685212	2.06653E-15
HCCS	-0.1340697	2.07025E-15
FBXO22	0.23463008	2.08585E-15
C2orf74	0.12142164	2.1115E-15
SNAPC3	0.09791024	2.13341E-15
SMG7	-0.0742711	2.14391E-15
LIN7C	0.09607692	2.16451E-15

TAF15	0.21900334	2.17025E-15
SRGN	0.69685572	2.1777E-15
NLK	0.15983414	2.1812E-15
LAMTOR3	-0.054192	2.18316E-15
OBI1	0.06673638	2.18894E-15
ABHD13	0.10704978	2.20483E-15
FLOT2	-0.0424801	2.20875E-15
BCOR	-0.2319799	2.22133E-15
DPAGT1	0.06110948	2.22502E-15
UQCRC1	-0.0729858	2.2554E-15
AP1B1	0.00496353	2.2601E-15
MIEN1	0.05745282	2.27272E-15
BCL11A	0.27962981	2.28236E-15
PPIF	-0.2344733	2.301E-15
OAF	-0.1688434	2.30159E-15
HLA-DRA	-0.3623848	2.37376E-15
TRA2A	0.00038463	2.39595E-15
NOB1	0.1401348	2.40882E-15
MRRF	0.06837364	2.41495E-15
PIGH	0.07714122	2.44189E-15
SDAD1	0.12932446	2.45964E-15
CELF2	0.32567993	2.46039E-15
MCM2	-0.0135475	2.47507E-15
KIAA0586	0.12574618	2.4842E-15
NDUFA6	-0.20295	2.50363E-15
TMEM256	0.15651503	2.50948E-15
VDAC3	0.16512338	2.51263E-15
MAP4K3-DT	-0.0373232	2.51738E-15
COPG1	0.03853701	2.53356E-15
ARID5B	0.13006099	2.55634E-15
ABHD8	0.09343494	2.58845E-15
IPO5	0.10231171	2.59246E-15
ERCC6	0.09812002	2.59476E-15
TMEM50B	-0.034574	2.60966E-15
HIVEP2	-0.2223518	2.62349E-15
COPS7A	-0.0170141	2.62484E-15
TMEM127	-0.0742271	2.63737E-15
UBQLN2	0.07870699	2.65156E-15
CCNT2	-0.0721677	2.67199E-15
TOMM20	0.2921861	2.68336E-15
FAM43A	0.21648394	2.70195E-15
MRPL58	0.03761822	2.70357E-15
PIAS2	0.17091339	2.706E-15
SDHC	0.21833863	2.71154E-15
TMEM144	0.08152278	2.72493E-15
GPSM3	-0.3211325	2.7568E-15
BAG4	-0.011689	2.794E-15
EXOC7	0.01567086	2.80072E-15
LSM2	0.27129038	2.80319E-15
PRICKLE1	-0.0749864	2.83194E-15

SPAST	0.08354966	2.83937E-15
HIST2H2AC	0.12866771	2.85073E-15
RIOK1	0.05106246	2.86037E-15
RNF2	-0.1473924	2.88794E-15
SCOC-AS1	0.12426232	2.90659E-15
GGA1	-0.1497647	2.92951E-15
INTS4	0.06554295	2.93141E-15
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GPX7	0.04373848	2.98941E-15
SRC	-0.2180757	2.99653E-15
CYB5D2	0.09560572	3.00666E-15
PIEZO1	-0.0704804	3.01429E-15
SCAP	0.07065431	3.0464E-15
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COMMD8	0.14341102	3.07728E-15
DENND10	-0.0016321	3.11196E-15
SNHG10	0.04478924	3.12327E-15
TMEM184C	0.10152626	3.13269E-15
SEC23B	0.03792301	3.1491E-15
ISCA2	-0.0226995	3.16447E-15
MBLAC2	0.07788401	3.17155E-15
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EXOSC10	0.05283832	3.20035E-15
COX11	0.11484451	3.22122E-15
MEA1	0.03128567	3.22197E-15
MTF2	-0.1451638	3.23634E-15
UHRF2	-0.0967791	3.25247E-15
PLEKHB2	-0.0649044	3.25401E-15
CTDNBP1	-0.0430702	3.28486E-15
TIMM8B	0.18314647	3.29321E-15
PBX2	0.03362997	3.29433E-15
ACYP1	0.00036218	3.30916E-15
ZFX	0.15620017	3.32349E-15
AC092069.1	0.12273134	3.35571E-15
CNPY2	0.20116282	3.35633E-15
RING1	0.02486205	3.37677E-15
COMMD7	-0.2594583	3.37801E-15
DDX60L	0.14443729	3.38541E-15
ZNF800	-0.1586216	3.42402E-15
MRPS15	0.1121011	3.43577E-15
IFNGR1	-0.2050331	3.45024E-15
ZNF561-AS1	0.10359067	3.48731E-15
ABHD3	0.03719689	3.49118E-15
SIRPA	0.09893393	3.52494E-15
RFC2	-0.0386914	3.53878E-15
ETHE1	-0.1378695	3.56714E-15
RAB3D	-0.0243167	3.56728E-15
CTNBP1	-0.0011007	3.57104E-15
BIN3	-0.1617549	3.60724E-15
AC007262.2	0.09867323	3.63088E-15

CHMP4A	0.14349702	3.64256E-15
PNPLA6	-0.116731	3.64352E-15
VTI1A	-0.0613278	3.65544E-15
METTL25	0.09026324	3.66807E-15
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TET3	0.06258763	3.68576E-15
WWC3	0.09296179	3.69172E-15
GTF2B	-0.1047104	3.71518E-15
CCZ1B	0.06580897	3.71774E-15
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FBXO4	0.07054208	3.79773E-15
MFSD4B	0.18095824	3.80163E-15
TMEM260	0.15025395	3.85207E-15
TWF1	0.02984551	3.87252E-15
CLK3	-0.1672582	3.89815E-15
RMI1	0.11358034	3.95219E-15
PSMG3	-0.0183381	3.95298E-15
PTCD3	0.15045396	3.95591E-15
RPN2	-0.1099206	3.95606E-15
KLHDC4	0.03101053	3.96052E-15
NDC1	0.07680411	3.96913E-15
USP7	-0.0562338	3.96996E-15
SRFBP1	-0.0303498	3.98435E-15
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B3GNT8	-0.2010102	4.08388E-15
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NBDY	-0.209663	4.10304E-15
TMEM177	0.06087129	4.11185E-15
FUBP3	0.08589914	4.12465E-15
AP002449.1	0.05929646	4.13414E-15
ARHGEF19	0.06545344	4.14489E-15
MXRA7	0.06678534	4.15089E-15
SMU1	0.06006404	4.15761E-15
MIRLET7BH	-0.1470407	4.18113E-15
ROCK1	-0.3477789	4.1868E-15
NFE2L3	0.18277185	4.2424E-15
PURB	-0.0148992	4.24289E-15
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KANSL1	-0.0427281	4.28806E-15
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DOCK5	-0.1364162	4.32441E-15
CASS4	-0.1896211	4.35766E-15
HIST1H2AK	0.11205501	4.35786E-15
DOCK1	-0.1857668	4.38357E-15
ADAM28	0.33330774	4.38864E-15
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RPL9	0.16300865	4.43018E-15
THUMPD3-A	-0.1932895	4.45506E-15
LYRM2	0.07775448	4.47911E-15

HOXA7	0.00659614	4.52865E-15
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ANKLE2	-0.1504545	4.57599E-15
YEATS4	0.00755367	4.59358E-15
MPDU1	-0.0980249	4.59557E-15
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DR1	-0.0155011	4.67815E-15
SLC2A5	0.11158551	4.69213E-15
DMAC2	0.04073743	4.72462E-15
PRKAG1	0.04180446	4.75783E-15
COG5	0.09160063	4.80805E-15
WDR45	-0.035145	4.82191E-15
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TNFRSF25	-0.1848212	4.85322E-15
ZBTB40	0.09211831	4.90986E-15
ARL16	-0.0596814	4.92952E-15
ANP32E	0.24729398	4.93558E-15
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DMAP1	-0.0016586	4.98454E-15
ACADS	-0.0190595	5.04034E-15
GID8	-0.0417267	5.09412E-15
GAK	-0.0204535	5.10256E-15
ZNF579	-0.1790186	5.11077E-15
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PNKD	0.17125214	5.18882E-15
CDC42SE2	-0.2422183	5.19951E-15
EXOC5	-0.0550918	5.25527E-15
RFXAP	0.0820963	5.25675E-15
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CARD16	-0.016626	5.41623E-15
FAM122B	0.04126515	5.42255E-15
NUCB1	-0.1055229	5.42761E-15
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CYP7B1	0.12341853	5.49772E-15
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NEK6	0.0676805	5.52913E-15
C9orf43	0.06681382	5.55581E-15
WHRN	-0.0884413	5.5596E-15
ZNF506	0.20857591	5.57644E-15
HAVCR2	-0.0662762	5.5831E-15
TMEM134	-0.0473338	5.61934E-15
GID4	0.0859174	5.62184E-15
UBE2E3	-0.0236527	5.65527E-15
SMCR8	0.08690653	5.68024E-15
COA8	-0.0037771	5.76555E-15
UBALD1	-0.0664166	5.7977E-15
TRANK1	0.15843092	5.88601E-15
MED4	-0.1123761	5.94962E-15
CCDC127	-0.1593701	5.97296E-15

CTBP1-DT	0.10610804	6.01377E-15
CXCR4	0.16384154	6.07745E-15
SPN	0.33622112	6.07957E-15
MPG	-0.2200888	6.08155E-15
ARL1	0.03703389	6.12291E-15
RGS14	-0.1636345	6.15423E-15
RAD51D	0.07591938	6.15962E-15
CCDC22	-0.0021097	6.16485E-15
TMEM19	0.08383097	6.18017E-15
PTCD1	0.063687	6.19521E-15
PPFIA1	0.10591813	6.19753E-15
NAA10	-0.1043634	6.24387E-15
HBS1L	0.038469	6.2507E-15
LONRF1	-0.2173031	6.25181E-15
HAUS2	-0.1510977	6.37248E-15
TCFL5	0.08093901	6.37865E-15
CDK10	0.00130923	6.38396E-15
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BIN2	0.1421532	6.49077E-15
ZNF74	0.09953003	6.51355E-15
MBIP	-0.0150075	6.53559E-15
WDR82	-0.1007275	6.53893E-15
EFCAB2	-0.0021696	6.55156E-15
PDE6D	0.06555307	6.5752E-15
RNASEL	0.10606332	6.60528E-15
STX4	-0.0694921	6.61463E-15
HESX1	0.07699747	6.61746E-15
FANCB	0.03849233	6.62916E-15
RBM34	0.05200672	6.69429E-15
FBXW5	-0.0447579	6.70931E-15
PTGES3	0.2840756	6.72757E-15
MAPKBP1	-0.2465089	6.74303E-15
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GPS1	-0.0062861	6.86863E-15
TAF4	0.02799587	6.92589E-15
AC027601.6	-0.1638127	6.97814E-15
THUMPD3	-0.0401499	6.98013E-15
MRNIP	-0.0052528	6.98503E-15
GTF2IRD2	0.07387915	6.98573E-15
SHARPIN	-0.0206376	7.0011E-15
SNF8	-0.0487898	7.05558E-15
NKX2-3	0.05534973	7.12078E-15
PIK3CD	0.06484539	7.15024E-15
AKR1A1	0.01378477	7.17652E-15
COX7C	0.20850406	7.42884E-15
TMEM203	0.06847118	7.43874E-15
ST6GALNAC	-0.1462343	7.44079E-15
KLC1	-0.1312799	7.45256E-15
ENG	0.08366902	7.53256E-15

AKT1	-0.0029444	7.6053E-15
NUP62	-0.0693298	7.63819E-15
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WDR81	0.01853248	7.77337E-15
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FAM117A	0.25944431	7.8596E-15
EPC2	0.0626933	7.88789E-15
RNF167	-0.1217714	7.89208E-15
GDAP2	0.00587583	7.8938E-15
ERO1A	-0.0185992	8.05801E-15
RFK	-0.0554872	8.09636E-15
LINC01138	0.08428139	8.10957E-15
ANAPC7	0.06047262	8.12541E-15
CYB561A3	-0.0029274	8.22133E-15
ANKHD1	0.15550696	8.22686E-15
TMEM216	-0.0255998	8.24496E-15
PHKG1	0.09651651	8.28111E-15
CSTF2T	0.0857424	8.28742E-15
POT1	0.0819316	8.31472E-15
SNRNP70	0.06414584	8.35768E-15
SMCHD1	0.23321483	8.43905E-15
IMP4	-0.0217839	8.48581E-15
STX5	-0.1273414	8.57567E-15
PDIA3	-0.2592972	8.57789E-15
RIC8B	0.06282914	8.77725E-15
ABI2	-0.2247831	8.80577E-15
SS18	-0.0493491	8.81268E-15
SLA2	-0.0312018	8.82088E-15
NECAP1	0.01375348	8.87218E-15
FOXJ3	-0.0732275	8.88223E-15
BAG1	0.15912662	8.89839E-15
AKT2	-0.0713284	8.92706E-15
CCDC174	-0.1304888	8.96591E-15
SERTAD3	-0.2137333	8.99052E-15
CNN2	-0.0718581	9.23757E-15
SF3A1	0.02481169	9.25073E-15
BUD13	-0.0721525	9.25354E-15
KIF22	0.08691993	9.27082E-15
VAPB	-0.0896866	9.37815E-15
RMND5A	0.04122951	9.39493E-15
USP12	-0.2377196	9.46629E-15
HINT2	0.01068595	9.47014E-15
NUP93	0.00328902	9.4716E-15
GOLGA7	0.07281613	9.5097E-15
WDFY1	0.16420037	9.51098E-15
TAZ	-0.1412146	9.51312E-15
CSNK1G2	0.07491505	9.53567E-15
FZR1	-0.2105781	9.54751E-15
APPBP2	-0.1027108	9.56362E-15



RPN1	0.01414314	9.59923E-15
MAPK14	-0.0084975	9.62473E-15
TTC21B	0.05263756	9.64787E-15
VAMP4	0.08627831	9.68449E-15
PSMC6	-0.0700914	9.75599E-15
RILP	-0.0083888	9.75621E-15
PPP2R5A	0.0172357	9.78092E-15
CSNK2B	-0.2412857	9.84303E-15
SRRT	0.0622498	9.85057E-15
NFKBIE	-0.1140984	9.91752E-15
MBD5	0.03626073	1.01119E-14
SDHD	0.15080563	1.01857E-14
OSTF1	0.10676152	1.01929E-14
CNOT7	0.14833103	1.02092E-14
ABCD4	-0.045217	1.03101E-14
TXNDC15	0.04343948	1.03211E-14
ZNF557	0.0768493	1.03379E-14
IER3	-0.4788171	1.04403E-14
PTPN11	0.02034211	1.04525E-14
USP9X	-0.1481521	1.04558E-14
ZNF48	-0.1509467	1.04562E-14
GCH1	-0.2835053	1.04848E-14
TMEM106A	0.03825144	1.06988E-14
RRM1	0.07299171	1.08451E-14
TRIQK	0.07930377	1.08554E-14
TMEM147-A	0.1064527	1.08571E-14
DNAJC13	0.1380103	1.08775E-14
NAPG	-0.1933475	1.09292E-14
PACS1	0.02603938	1.101E-14
ZBTB33	0.09858904	1.11136E-14
SIKE1	0.05299031	1.11525E-14
HOOK2	0.0380028	1.11631E-14
RAP2C	-0.0377697	1.11778E-14
CCNH	-0.0109747	1.13995E-14
SORD	0.15785269	1.14372E-14
HINFP	0.01113353	1.14688E-14
WDR18	-0.041943	1.14853E-14
KPNA6	-0.1635268	1.15079E-14
TMSB4X	0.37834258	1.15744E-14
PTEN	0.27166731	1.16631E-14
TBC1D9B	0.11259185	1.1754E-14
WASIR2	0.05763862	1.19058E-14
ZNRD2	-0.085198	1.20335E-14
AC016831.1	-0.1832734	1.20544E-14
NHP2	0.22693723	1.22205E-14
SMIM1	0.1016845	1.22266E-14
ENOSF1	0.19530033	1.2273E-14
MIEF1	0.08797759	1.23197E-14
SIL1	-0.1711724	1.24087E-14
TMEM147	0.14874997	1.24227E-14

ELOVL1	-0.0714646	1.24238E-14
WWP1	0.06255574	1.2501E-14
PDIA6	-0.0936062	1.25272E-14
RBM42	-0.1257726	1.25378E-14
EIF2B3	0.10789576	1.25549E-14
NSL1	0.08501854	1.27356E-14
ARHGEF1	-0.1358918	1.29057E-14
MDC1	0.02304134	1.30904E-14
GSK3A	-0.1306777	1.32489E-14
NPM1	0.26037806	1.33236E-14
BOP1	0.0356915	1.34271E-14
TFPT	0.05982347	1.34515E-14
MED1	0.0389618	1.34583E-14
ANKRD39	0.04079364	1.35492E-14
SPRED2	-0.1602572	1.35802E-14
EIF2B5	0.02572028	1.35806E-14
TDG	0.12426284	1.35896E-14
NCKAP5L	-0.1487018	1.37693E-14
POM121	0.0382422	1.37728E-14
BNIP2	-0.2479391	1.37758E-14
CUEDC2	0.0148135	1.38707E-14
DPY19L1	0.10542661	1.39551E-14
DCUN1D1	0.08200133	1.39558E-14
RARS2	-0.0230908	1.40655E-14
LINC00339	0.07796273	1.41044E-14
GOLPH3	-0.1276406	1.42404E-14
GPRC5D-AS	0.05395322	1.43382E-14
BDH1	0.12576046	1.45076E-14
RNF123	0.07259642	1.45359E-14
LINC00662	0.1078284	1.45988E-14
SH2D2A	-0.2217536	1.46653E-14
AC006213.2	0.0788914	1.47604E-14
ATP6V0D1	-0.1415161	1.48194E-14
LINC02802	0.11262089	1.48349E-14
SMNDC1	0.12121343	1.48932E-14
ARMC5	0.08183466	1.49445E-14
BTBD6	0.06138201	1.49632E-14
DNAJC5	-0.1287997	1.50199E-14
APH1A	-0.1182226	1.51143E-14
MYLK-AS1	0.07642811	1.51205E-14
MRPL52	0.07533608	1.52137E-14
DCK	0.17673966	1.53609E-14
CNNM3	0.09379903	1.53746E-14
PRKAR1A	-0.1436694	1.55344E-14
CDC16	0.09052919	1.55559E-14
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DNAJB14	-0.1568336	1.56041E-14
NF2	0.05355373	1.5708E-14
RPA1	0.11303342	1.57825E-14
EPB41L3	0.08703813	1.60115E-14

RAD18	0.09529391	1.60845E-14
DGKQ	0.09585343	1.61658E-14
TUG1	0.04201691	1.63352E-14
CD109	-0.2912889	1.63699E-14
PATZ1	0.0612569	1.6477E-14
STK38	0.12169162	1.66493E-14
TNK2	-0.1203372	1.66868E-14
HGS	-0.1374631	1.68048E-14
CEP70	0.10962116	1.68526E-14
ZNF182	0.04817278	1.69785E-14
YTHDF2	-0.0089654	1.70724E-14
RABEP1	0.05208007	1.72344E-14
ZNF426	-0.002462	1.72942E-14
MAST3	0.08828882	1.74139E-14
ZDHHC20	0.05755423	1.75561E-14
BCKDK	-0.0863734	1.76136E-14
ATG4B	-0.039157	1.76901E-14
RNF187	0.12598443	1.81287E-14
AMN	-0.1870232	1.8145E-14
C1orf122	-0.0696437	1.81909E-14
GIT1	-0.006652	1.82255E-14
CHST11	-0.1111635	1.82358E-14
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PRPF31	0.04865086	1.83145E-14
RBM23	0.10535674	1.84206E-14
TCEAL9	0.16875696	1.84737E-14
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BOD1	0.0510392	1.85398E-14
ACTR6	0.11623656	1.87392E-14
VPS13B-DT	0.07579823	1.88693E-14
BTK	0.16786529	1.88877E-14
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ENOPH1	0.06477817	1.96331E-14
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SIN3B	0.04141118	2.03891E-14
CARD8-AS1	-0.0046523	2.04358E-14
PLPP5	0.02462762	2.04516E-14
CPXM1	-0.1356161	2.05426E-14
PPIE	0.09177305	2.05675E-14
PRORP	-0.0985719	2.0689E-14

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FBXW8	0.05911571	2.13416E-14
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FIS1	-0.1454596	2.16101E-14
COX10-AS1	0.06668509	2.17705E-14
COASY	0.04149464	2.18719E-14
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PRKCD	-0.101366	2.25631E-14
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FLYWCH1	0.06769496	2.28422E-14
TXK	0.07032233	2.29216E-14
CLPP	-0.0282854	2.30111E-14
UCK2	-0.0478709	2.3096E-14
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NABP2	0.07739256	2.76439E-14

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PLAA	-0.0590619	2.79126E-14
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WDPCP	0.11242342	2.86076E-14
MNDA	0.11622948	2.86134E-14
WDR92	0.06558923	2.86461E-14
PADI2	0.06209169	2.87818E-14
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TRAP1	0.06616149	2.96573E-14
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PRR13	0.21319225	2.98168E-14
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SVIP	-0.0679829	3.00398E-14
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SPTAN1	-0.2129856	3.11808E-14
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PARP11	0.11915408	3.15315E-14
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CRTC2	-0.1419735	3.16796E-14
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GRASP	-0.1832118	3.21381E-14
PI4KB	-0.0939688	3.22332E-14
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NAA20	-0.030894	3.32687E-14
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ACAP2	-0.0692559	3.46179E-14
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GAMT	-0.0682526	4.32755E-14
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STRIP1	-0.0243765	4.46474E-14

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MAGED1	-0.1052919	4.59366E-14
UQCC1	0.07880172	4.59675E-14
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KIAA0930	0.16452403	4.64148E-14
PSMB5	0.02813864	4.67063E-14
SCO1	0.08507809	4.69883E-14
SQSTM1	-0.4424014	4.72285E-14
SP3	-0.035326	4.74349E-14
HELQ	0.0749995	4.8021E-14
ERLIN2	0.04878224	4.81746E-14
DUSP11	-0.0957229	4.82453E-14
SPATA5	0.1111282	4.83686E-14
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MAP3K11	-0.2185657	4.87607E-14
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TM2D3	-0.1204722	4.91911E-14
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TYMS	-0.3073828	4.97532E-14
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KAT5	-0.127501	5.0836E-14
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C5orf56	0.03418375	5.14574E-14
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CYB5B	-0.0358482	5.20639E-14
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WBP2	-0.0240841	5.22086E-14
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GALNT11	0.1433823	5.2855E-14
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CUL5	-0.1390596	5.29369E-14
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CYFIP1	0.1251749	5.38193E-14
CHMP1B	0.01064091	5.38725E-14
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CCL1	-0.2017087	5.44234E-14

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TOR3A	0.0323122	5.67644E-14
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CATSPER2	0.11415573	5.75837E-14
RHOT2	-0.0282407	5.79637E-14
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SYTL1	-0.1782685	6.01605E-14
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TSTA3	-0.1149344	6.06684E-14
STIP1	0.06955209	6.08079E-14
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VAV3	0.01317523	6.12799E-14
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PREP	0.09550642	6.23403E-14
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PUS3	0.11787122	6.37753E-14
PSMD10	0.02428974	6.38542E-14
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TOP3B	0.03523551	6.51696E-14
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TATDN3	-0.0173177	6.60676E-14
NAP1L4	0.1086972	6.68902E-14
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DELE1	0.04711097	6.77908E-14
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COX16	0.16388024	6.78948E-14
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GDI1	-0.1288736	6.81048E-14
HK1	-0.1394437	6.85793E-14
PRR14	-0.0888918	6.88841E-14
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CD47	-0.2727573	7.0788E-14
CYSTM1	-0.2230952	7.17963E-14
BRAP	-0.049566	7.22475E-14
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NAT14	-0.1147698	7.29876E-14
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GUSB	-0.10623	7.42172E-14
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DDB1	0.01216512	7.47117E-14
ELOA-AS1	0.06196235	7.49527E-14
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TUBB2A	-0.1456387	7.51801E-14
AP2A1	0.01918083	7.64329E-14
EXT2	0.02539983	7.69842E-14
TXLNA	0.0509899	7.71566E-14
STUB1	0.0344558	7.73705E-14
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KXD1	0.06523355	7.86355E-14
ZKSCAN2-D	0.09588723	7.87543E-14
CERT1	-0.2421775	7.88009E-14
LMF2	-0.1509284	7.88581E-14
RAI1	-0.1056638	7.90223E-14
PKP4	0.12624074	7.90837E-14
DDX49	-0.0400504	7.91777E-14
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VAMP2	-0.0545024	7.97624E-14
ZNF92	0.10865776	7.97872E-14
SETMAR	0.06069647	7.98822E-14
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PAIP1	0.06981658	8.04352E-14
PREX1	0.05054531	8.05257E-14
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RNASEH1	-0.0501736	8.09377E-14
PARP1	0.21631186	8.10117E-14
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PSMC2	-0.031146	8.14356E-14
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RNF41	-0.0719049	8.23227E-14
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VEZF1	-0.1824548	8.30279E-14
LGALS9	0.09458835	8.31256E-14

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NDRG3	0.04406375	8.54539E-14
ZNF354B	0.09145872	8.5618E-14
IFNAR1	-0.0079087	8.60368E-14
SDHA	0.02374873	8.64646E-14
USP53	-0.0490212	8.65174E-14
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SMG6	-0.0106946	8.72354E-14
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NUSAP1	0.05853321	8.80643E-14
PGBD2	0.06030515	8.86361E-14
TNPO2	0.03686445	8.88651E-14
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CBLL1	0.01741071	9.2461E-14
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ZNF606	0.06423472	9.28334E-14
HLA-DMA	-0.2477491	9.30062E-14
SRA1	-0.1647808	9.46318E-14
BCAP29	0.02252752	9.54104E-14
MARCH5	-0.0277123	9.59159E-14
ILVBL	0.01641888	9.6854E-14
MED15	-0.1367073	9.69728E-14
SURF4	-0.0801247	9.81052E-14
HIF1A-AS3	0.06752033	9.826E-14
PRRC1	0.01146169	9.8366E-14
AC011043.1	0.08132531	9.92191E-14
GNG10	-0.0082227	1.0132E-13
P2RY11	0.04903044	1.01505E-13
SCAF1	-0.0594768	1.01773E-13
FAM234A	0.06406135	1.01814E-13
AK9	0.12555768	1.02161E-13
JPT2	-0.0376191	1.02553E-13
NUDT14	0.112541	1.02635E-13
BICRAL	0.11330217	1.03093E-13
ARIH2	0.0105484	1.03607E-13
OSTC	0.22582381	1.03901E-13
CARHSP1	-0.1671726	1.05029E-13
MT1X	0.05214465	1.05733E-13
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HECTD4	0.0374082	1.08539E-13
SNHG19	0.109259	1.09185E-13
TOLLIP	-0.1028748	1.0945E-13

TUBA1B	-0.5753349	1.10063E-13
ARHGEF40	0.03143339	1.10091E-13
FDPS	0.05131494	1.10201E-13
NDST2	-0.1632286	1.10313E-13
AC118549.1	0.11191957	1.11734E-13
MTFR1L	0.05654245	1.11793E-13
SYNGR2	0.10765651	1.12047E-13
PPP2R5C	-0.0526194	1.12579E-13
CPVL	0.26837848	1.13411E-13
E2F4	0.02414028	1.13798E-13
SNRNP35	-0.0421066	1.15843E-13
AL354740.1	0.08029869	1.15875E-13
OXNAD1	0.06639756	1.16265E-13
PARP10	0.04451666	1.1668E-13
NOM1	0.07204193	1.16737E-13
BNIP3L	-0.1452091	1.17127E-13
PRIMPOL	0.09719379	1.17685E-13
FOXRED1	0.0305463	1.17719E-13
TCERG1	0.08838957	1.18027E-13
RAP2B	0.0117344	1.19191E-13
ATF2	-0.0719995	1.19399E-13
ZNF528-AS1	0.11911773	1.19403E-13
CBWD3	0.09472143	1.20296E-13
SPEN	-0.0244304	1.20358E-13
METTL21A	-0.0097947	1.20414E-13
LDLRAD2	-0.2065411	1.20677E-13
ZNF594	0.0786962	1.20717E-13
CCDC124	-0.0160375	1.21022E-13
ACAP3	-0.1335732	1.21369E-13
SIRT2	-0.1207895	1.22132E-13
IDH3B	-0.0418917	1.22603E-13
TOMM70	0.06696637	1.2328E-13
SEC63	0.13046869	1.23659E-13
REX1BD	-0.0625362	1.2381E-13
PRMT7	0.0900009	1.24595E-13
PCYT2	0.08106948	1.25337E-13
CENPW	-0.0405913	1.2573E-13
SASS6	0.13199536	1.25767E-13
SUGT1	0.13111934	1.26274E-13
DCAF16	0.03364603	1.29415E-13
TSPAN32	-0.169367	1.30389E-13
ZNF274	-0.0606997	1.30425E-13
SPRYD4	0.07122819	1.317E-13
FUNDC2	0.0327637	1.31821E-13
SF3B1	-0.2952477	1.32568E-13
GABPB1-IT1	0.0165011	1.32594E-13
ATP6AP1	-0.0157152	1.33334E-13
SCARF1	-0.1321504	1.33671E-13
POLR2M	0.04405368	1.34593E-13
TEX2	0.05512818	1.35039E-13

HSPBAP1	0.06434027	1.35735E-13
ZNF717	0.06960577	1.36589E-13
TRIM11	-0.0713315	1.37156E-13
CDC27	-0.0876762	1.38771E-13
HTRA2	-0.0015093	1.3891E-13
CNOT10	-0.0110994	1.4114E-13
KMT5B	-0.0423354	1.41244E-13
CDK12	-0.0529024	1.41672E-13
RAB8A	-0.0093265	1.41783E-13
GPANK1	-0.0144007	1.41992E-13
CAB39	-0.0418895	1.42159E-13
SDCCAG8	0.23329529	1.4357E-13
MCTP2	-0.0600767	1.43852E-13
CDK13	0.15700316	1.44046E-13
MIB2	-0.0282416	1.44065E-13
ZNF654	-0.0253317	1.44142E-13
MAVS	-0.0674561	1.45451E-13
ISY1	0.04691047	1.46077E-13
DGUOK	-0.0272739	1.46289E-13
KIFAP3	-0.0588313	1.47609E-13
PTCD2	0.07859295	1.47849E-13
ACAA1	-0.1128119	1.47959E-13
ZNF394	-0.1246398	1.48149E-13
NBEAL1	0.08624582	1.4824E-13
POC1B	-0.0759025	1.49481E-13
IRAK2	-0.1412225	1.50149E-13
ZNF529-AS1	0.07149698	1.51002E-13
AZIN1	0.00759966	1.51258E-13
CTSF	0.03320955	1.52159E-13
TIPRL	-0.022093	1.53004E-13
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SMYD4	0.07535861	1.53962E-13
NIPSNAP3A	0.02696425	1.54417E-13
VPS25	0.03060371	1.56734E-13
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GLRX2	-0.0737724	1.57933E-13
TFB1M	0.04031263	1.58055E-13
MOB2	-0.0703059	1.5866E-13
NEDD1	-0.0013105	1.59755E-13
CERS5	-0.0167198	1.6112E-13
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AC016747.1	-0.1409826	1.65328E-13
ELAVL1	-0.0279689	1.65383E-13
LIN54	-0.0005573	1.65535E-13
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CRELD2	-0.1236213	1.6737E-13
ELOA	0.02359925	1.68043E-13
FUNDC1	0.10043108	1.69225E-13

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OCIAD2	-0.1319563	1.73026E-13
COPS7B	0.00221927	1.73416E-13
COX19	-0.0608811	1.74079E-13
DSTYK	-0.2288822	1.74195E-13
TRIOBP	-0.0929805	1.78434E-13
TMEM159	0.09406658	1.78572E-13
UGGT2	0.06379277	1.78612E-13
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HELLPAR	0.15336909	1.79614E-13
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CTBP2	-0.1030832	1.84734E-13
USPL1	0.06427595	1.85332E-13
CHMP3	-0.0238271	1.86658E-13
ZNF345	0.06592154	1.88363E-13
TMC8	0.0867055	1.89079E-13
TCEAL1	0.1176391	1.89261E-13
RAB11FIP2	0.11830057	1.90065E-13
IDNK	0.14606689	1.90168E-13
ABHD17A	-0.1846955	1.90572E-13
ELF4	-0.1781763	1.90958E-13
ZNF395	-0.1983623	1.90998E-13
GLE1	0.07664445	1.91135E-13
GSDMD	0.0148063	1.94375E-13
MAP2K5	0.03564526	1.94858E-13
THADA	0.15089595	1.96451E-13
RAB9A	0.07690665	1.97335E-13
SRPK2	0.10176923	1.98159E-13
JAGN1	-0.0795786	1.99871E-13
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ST3GAL2	-0.0154231	2.01831E-13
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HMBOX1	0.08334949	2.0523E-13
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PHC3	0.04113897	2.07578E-13
SARNP	-0.1402836	2.08337E-13
SUN2	0.00195103	2.09303E-13
WIZ	0.01294986	2.09643E-13
EEF1AKMT3	0.06750803	2.10127E-13
CROT	0.10870158	2.10725E-13
PQBP1	0.12658412	2.11455E-13
CDK5	0.04850318	2.12956E-13
RFWD3	0.01497084	2.13535E-13

GPBP1L1	-0.0817599	2.14525E-13
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LRRCC1	0.13285812	2.16133E-13
YKT6	-0.037974	2.16921E-13
WDR43	0.25511194	2.17103E-13
SUPV3L1	-0.0894474	2.17562E-13
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NUDT5	-0.0274482	2.18562E-13
CINP	0.00524002	2.18828E-13
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DYM	0.10614087	2.22113E-13
DNM2	-0.0006657	2.23796E-13
ACSL5	0.09390898	2.24479E-13
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TCHP	0.08378256	2.2583E-13
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STK26	0.22705579	2.30574E-13
ADPGK	0.02819132	2.31347E-13
USP34	0.16145876	2.34451E-13
AEBP2	-0.0214758	2.34452E-13
NIP7	-0.0520945	2.34938E-13
NDST1	0.06567016	2.35452E-13
TIMM50	-0.0018558	2.35817E-13
MBD6	-0.0040261	2.40102E-13
MACO1	-0.0409716	2.40368E-13
PIGU	0.04685892	2.44164E-13
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AP2M1	-0.1553241	2.51774E-13
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CWC22	-0.1197953	2.53817E-13
MBD3	0.09408287	2.55163E-13
FAM120C	0.04639872	2.55861E-13
PSENN	0.02247019	2.56036E-13
TUBD1	0.03258084	2.56661E-13
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GAR1	0.1277519	2.58207E-13
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HDAC10	-0.0021462	2.59475E-13
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POP7	-0.0074898	2.70251E-13
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AKAP7	0.10244196	2.70423E-13
LTBP4	0.08448457	2.71283E-13
BRD2	-0.1154625	2.71526E-13
ELP6	0.05179232	2.72816E-13
PMPCA	-0.064367	2.73863E-13
RPP38	-0.0526904	2.76935E-13
JDP2	-0.0036327	2.79387E-13
ZFAND1	0.15027563	2.85299E-13
IMPDH1	0.00857822	2.87409E-13
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TRAPPC2L	0.03589096	2.89911E-13
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WBP1	-0.1071128	2.92934E-13
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PLTP	-0.1349272	2.98785E-13
PINX1	0.09814375	2.99313E-13
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COX17	0.06748085	3.00404E-13
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ABRAXAS2	-0.1171004	3.04031E-13
GATM	0.06662142	3.05425E-13
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NOL9	0.03763649	3.09321E-13
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DHRS4-AS1	0.08985817	3.15559E-13
CAPRIN2	0.07920386	3.19903E-13
ZFR	-0.1549881	3.22235E-13
HSCB	0.14915918	3.22983E-13
ETNK1	0.1555098	3.24387E-13
ATP6V1H	-0.0308567	3.25734E-13
EFNB1	-0.1366007	3.258E-13
MXD1	0.14769825	3.27247E-13
AP3D1	0.05424363	3.28577E-13
ADAR	0.00163464	3.30514E-13
HSPA4	0.00678785	3.3107E-13
RNF217	0.06087523	3.33922E-13
ZNF567	0.05487024	3.349E-13
SNU13	-0.2280901	3.36081E-13
ELMOD3	0.06496818	3.38103E-13
YIPF5	-0.0767781	3.40115E-13
PKN2	-0.1512533	3.404E-13
GBF1	0.00525252	3.42554E-13

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PTS	-0.1756516	3.45602E-13
CUL9	0.01770918	3.46544E-13
MLLT6	0.06832346	3.46822E-13
SNHG17	0.11095618	3.51705E-13
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BX664615.2	0.04800197	3.555E-13
TIMM29	-0.0102203	3.57478E-13
BBS10	0.06086794	3.59381E-13
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PLD1	0.13236187	3.62168E-13
CSTF3	0.07578777	3.63257E-13
TSEN15	0.05197386	3.64586E-13
MBTPS1	0.09729588	3.68466E-13
AC005921.2	-0.002752	3.68482E-13
AIMP2	0.06305163	3.71449E-13
DRG2	0.05921594	3.73698E-13
LPIN1	-0.1515989	3.74199E-13
LPCAT4	0.03291032	3.74686E-13
CUTA	0.23005028	3.76314E-13
TPRG1L	-0.0754272	3.79851E-13
TMEM101	0.09656255	3.81664E-13
ESF1	0.22906277	3.82836E-13
TMED4	-0.1053412	3.82974E-13
CAMK2G	0.03645795	3.83639E-13
HAUS7	0.07545208	3.84549E-13
AAAS	0.04899442	3.88655E-13
RBM15B	-0.0861156	3.89193E-13
TRIM47	-0.1007209	3.90507E-13
RAB35	-0.1223225	3.92151E-13
IER5	-0.2323981	3.94535E-13
PSMD3	0.00794696	3.98897E-13
PIGT	-0.1245349	4.04231E-13
PRKCB	-0.0547827	4.05261E-13
N4BP2L2-IT2	0.07409724	4.05753E-13
GABARAPL1	-0.1083877	4.0707E-13
KCNC4	0.13476909	4.07796E-13
SETX	-0.0778135	4.08617E-13
SUPT6H	-0.0993565	4.09981E-13
RAB27A	0.20424564	4.12799E-13
TGS1	0.02450256	4.14844E-13
ZDHHC24	-0.011168	4.15059E-13
VHL	-0.0141478	4.15799E-13
YIPF2	-0.0436423	4.17685E-13
THOC5	0.06667455	4.23349E-13
TAS2R4	0.09523177	4.23785E-13
CD55	-0.2511275	4.29943E-13
NAGLU	0.01488465	4.32139E-13



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PRDM16-DT	0.05783883	4.36309E-13
CCDC32	0.01774153	4.44533E-13
GOLGA3	0.06699591	4.45935E-13
MTERF1	0.06949672	4.5002E-13
BORCS5	0.08411627	4.50381E-13
POLR2J	0.09538313	4.512E-13
MRPS7	-0.0445162	4.51829E-13
NEPRO	0.06543582	4.53661E-13
TMEM179B	0.02558369	4.62947E-13
DDRKG1	-0.0375277	4.6377E-13
ZNHIT1	0.1433248	4.64658E-13
ICE1	0.00035538	4.65566E-13
KLHDC2	-0.0283151	4.66618E-13
SMDT1	-0.1020753	4.76245E-13
MINPP1	0.08860504	4.76897E-13
MYCBP	0.09370102	4.7842E-13
HMG4	-0.0442823	4.80462E-13
BMT2	0.03299747	4.84321E-13
ANKS1A	-0.0510949	4.88374E-13
FOXK2	0.02254798	4.90973E-13
ALG10	0.05267261	4.91419E-13
PEX1	0.06889594	4.96257E-13
LUC7L2	-0.1404276	4.98114E-13
PAPOLG	-0.0011523	5.17587E-13
DDX59	0.00631003	5.17977E-13
PDE4D	-0.0643748	5.18129E-13
ZDHHC4	0.05669549	5.22214E-13
NEMP1	0.0920509	5.22862E-13
FBXL4	0.07243602	5.33776E-13
POLR2J2	0.03321479	5.3513E-13
PIK3CA	-0.1694777	5.36291E-13
PARVB	-0.1445637	5.39901E-13
COQ7	0.01712495	5.39922E-13
FBXO7	-0.1506696	5.40908E-13
TCF3	0.09416529	5.45898E-13
FBXO38	-0.0522426	5.45958E-13
GGA3	0.02182192	5.46782E-13
VMA21	0.10796972	5.46855E-13
SNHG5	0.25310934	5.47236E-13
KIN	-0.0282447	5.48216E-13
NAA60	-0.100602	5.49613E-13
TYK2	0.00690631	5.49649E-13
ATP7A	0.12685822	5.50019E-13
MXD4	-0.2064178	5.53801E-13
EPDR1	-0.0351694	5.54403E-13
FIG4	0.07359565	5.54866E-13
FAM162A	0.15216601	5.58063E-13
RPP30	0.03045499	5.58576E-13

POLG	-0.0095758	5.59819E-13
PDXP	0.08035536	5.61538E-13
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ZFPL1	-0.0254608	5.63418E-13
FASTK	-0.0814034	5.63949E-13
ZDHHC7	-0.0930272	5.65406E-13
SNIP1	-0.0289151	5.66626E-13
HDDC3	0.08419336	5.73587E-13
GRAMD4	0.06870772	5.77356E-13
EPC1	0.12282513	5.82727E-13
MPRIP	0.05802476	5.85961E-13
PALB2	0.07145098	5.86793E-13
FPGS	-0.0364712	5.91588E-13
NKAP	0.09354424	5.9214E-13
TCEANC2	0.13211597	5.95025E-13
DFFA	0.13906161	5.9698E-13
CCDC138	0.0437054	5.9711E-13
CCDC180	0.07863539	5.97121E-13
LINC01500	0.05725514	5.99072E-13
AC093227.1	0.0583501	6.14376E-13
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GATAD2B	0.02505537	6.19522E-13
SIRT5	0.08371604	6.21402E-13
POLR2K	0.03843679	6.23961E-13
CHORDC1	0.07470471	6.26382E-13
TRIM65	0.05105401	6.28648E-13
FAM114A2	0.10993851	6.38775E-13
TRMT1	0.00494319	6.40757E-13
PTPN18	0.08262347	6.40838E-13
MROH6	0.07149969	6.43493E-13
ZFAND2B	0.02992377	6.44968E-13
FSD1L	-0.180001	6.46501E-13
TMEM250	-0.0407684	6.46603E-13
FBXO45	-0.040176	6.52225E-13
CCDC173	-0.1349127	6.53341E-13
TEDC1	-0.1554658	6.53562E-13
EI24	-0.0359646	6.56645E-13
BCR	-0.0625734	6.58438E-13
CLSTN3	-0.023463	6.62555E-13
SWI5	0.06793983	6.64658E-13
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GLCE	0.08560877	6.69699E-13
LEMD2	-0.0181138	6.71866E-13
LPCAT1	0.07885061	6.76943E-13
IFT43	-0.0400869	6.78493E-13
SLC25A13	0.00762784	6.81112E-13
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MDM2	0.09299944	6.8644E-13

C12orf75	-0.2448742	6.87139E-13
ING2	-0.018416	6.92989E-13
STX18	0.03101304	6.93507E-13
CLASP1	0.0973771	6.95263E-13
PXN-AS1	0.07745539	6.96885E-13
MRPS35	0.00246038	6.98057E-13
TRIM33	-0.1021364	6.99674E-13
MYO1F	-0.0955477	7.01261E-13
LSM12	-0.0587999	7.06156E-13
GATB	0.05304898	7.09633E-13
CHMP5	0.22623867	7.10937E-13
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FAS	-0.1468085	7.14667E-13
HYAL3	0.09998423	7.15056E-13
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SCCPDH	0.19818953	7.18915E-13
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MHENCN	-0.1278709	7.3208E-13
COX5B	-0.2255594	7.37484E-13
LNX2	-0.0723078	7.39684E-13
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ANKRD16	0.08946153	7.46978E-13
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ERGIC3	0.05810161	7.53485E-13
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METTL18	0.13151955	7.89229E-13
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TRAF6	-0.0741835	7.98613E-13
TAF8	-0.002892	8.09289E-13
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COX14	-0.0580379	8.50597E-13
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FRMD4B	-0.2555382	8.55423E-13
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FKBP7	0.06206835	8.71334E-13
ISYNA1	-0.0650138	8.71777E-13
DDX60	0.07000053	8.72879E-13
ATP5PB	-0.2250561	8.77353E-13
COPS6	-0.0995433	8.82601E-13
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MGAT4B	-0.168622	8.85738E-13
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DDX41	0.07415858	9.04286E-13
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UBL3	-0.0378328	9.29855E-13
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CLIC4	-0.1645161	9.37591E-13
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ETAA1	0.08066665	1.01659E-12
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RAB5B	0.0381868	1.03531E-12
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ARHGAP45	-0.0834669	1.042E-12
EDRF1	0.05988546	1.04584E-12
MOAP1	-0.0603723	1.0478E-12
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SLK	-0.1072003	1.05303E-12
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XAB2	-0.1023194	1.08056E-12
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INTS14	-0.0065098	1.30581E-12
MAP2K7	0.01312346	1.31055E-12
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HELZ	-0.1447394	1.32819E-12
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MPV17L2	0.03215068	1.3491E-12
GOLGA5	-0.0043884	1.3493E-12
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DAXX	-0.0884645	1.39602E-12
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KLF3-AS1	-0.1791326	1.49549E-12
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TAX1BP3	0.09505311	1.55476E-12

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SCAF4	-0.0662846	1.59455E-12
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LITAF	-0.1628837	1.62338E-12
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TEFM	0.09045557	1.63375E-12
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DNAAF5	0.07021451	1.65487E-12
GVQW3	-0.0107002	1.65737E-12
TARS2	0.09711589	1.67193E-12
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CNOT3	-0.0158332	1.68282E-12
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LGALS8	0.09258845	1.71616E-12
BACH1	0.00577711	1.71957E-12
HGSNAT	0.01380205	1.72966E-12
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YARS2	-0.0355795	1.78643E-12
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ERLEC1	0.06243631	2.07593E-12
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ANKRA2	0.06606251	2.23256E-12
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SUCLA2	0.03584076	2.68544E-12
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PROSER1	0.01480098	2.78066E-12
VPS29	-0.0444334	2.79263E-12
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P4HB	-0.1108083	2.82564E-12
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ATP11C	0.08608749	2.86542E-12
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YTHDF1	-0.0218871	2.87873E-12
ZBTB25	0.01872696	2.91562E-12
ATP2C1	0.13702631	2.92226E-12

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LENG9	0.09344461	3.03434E-12
BCL2A1	-0.1131524	3.05938E-12
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ZER1	-0.0361493	3.09209E-12
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VPS16	0.01147284	3.13065E-12
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FOXN3	-0.0302392	3.17487E-12
MIR222HG	-0.0237594	3.17551E-12
SH2D3C	-0.1801148	3.19457E-12
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CRYZ	0.05002253	3.22859E-12
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LHPP	-0.0348309	3.37646E-12
ZNF257	0.08088623	3.39202E-12
RITA1	0.07850924	3.39563E-12
FBXO28	-0.0838872	3.39818E-12
MPPE1	0.13881293	3.40611E-12
VPS39	0.02438239	3.41447E-12
CNOT8	-0.0028163	3.44055E-12
PIK3IP1	0.05695922	3.48348E-12
TRNT1	0.00830407	3.48926E-12
EFHC1	-0.0076768	3.50937E-12
CSTF1	0.01930753	3.51069E-12
SGSM3	-0.0540022	3.53953E-12
BTBD1	0.04221767	3.5427E-12
TASP1	-0.0643154	3.57963E-12
MOCS2	0.09129075	3.58195E-12
YDJC	0.00827079	3.58951E-12

TSIX	0.08950785	3.5946E-12
SAMD11	0.06988164	3.61301E-12
DOCK8	0.13881477	3.61739E-12
MIPEP	0.07161615	3.6614E-12
TAF11	-0.0789493	3.66514E-12
MED17	-0.0329777	3.70334E-12
ZNF33B	0.15711944	3.72863E-12
PRPS1	-0.0478423	3.74792E-12
PSMC3	-0.0327929	3.74897E-12
ZNF213-AS1	0.09453689	3.75155E-12
GLRX5	0.03452988	3.76117E-12
GTF2F1	-0.0682219	3.76459E-12
COQ6	0.02412182	3.80125E-12
MSL2	0.11961383	3.82913E-12
AIDA	-0.1326028	3.85724E-12
IQCB1	-0.0857125	3.87882E-12
EIF6	-0.0954496	3.88834E-12
ACSS1	-0.052532	3.9208E-12
PEX26	0.14011034	3.92919E-12
ETV3	-0.0310126	3.9311E-12
CCDC136	0.1169537	3.93267E-12
DDX54	0.04772746	3.93716E-12
TMEM123	0.24336853	3.9468E-12
GHDC	0.10321215	3.95314E-12
GRIPAP1	-0.0842645	3.96649E-12
PHF8	0.05375051	3.98497E-12
NRIP1	-0.0360262	4.00137E-12
PIAS1	-0.0967785	4.01366E-12
PRPF39	0.0460687	4.02221E-12
ENOX2	0.10545662	4.04797E-12
CCDC97	-0.121427	4.05908E-12
TMEM161B	0.07894954	4.07623E-12
CDC40	-0.0985545	4.11113E-12
UNKL	0.06385772	4.11287E-12
LSM5	0.1619734	4.13094E-12
VPS50	0.0732099	4.13825E-12
CCDC88C	-0.1412485	4.19318E-12
MAML1	0.06389914	4.19907E-12
MRTFA	-0.1452873	4.20451E-12
MYSM1	0.13401564	4.21328E-12
PDGFC	-0.0817973	4.25839E-12
ZBED5	0.03760204	4.26138E-12
ZNF701	0.04351478	4.26403E-12
TMEM107	0.00853588	4.27012E-12
WDFY4	0.09509889	4.27415E-12
TUT4	0.17971513	4.27724E-12
SNX10	-0.1528859	4.28655E-12
NME6	0.04408519	4.29193E-12
LAMTOR2	0.1125787	4.29779E-12
XIAP	-0.042615	4.30918E-12

VPS18	-0.0482776	4.31637E-12
CCDC25	0.09615632	4.31881E-12
NUFIP1	0.06572602	4.33192E-12
LYSMD3	0.03183192	4.35884E-12
CCDC7	0.05498295	4.39411E-12
STIMATE	-0.0394362	4.40196E-12
ZNF441	0.04096533	4.41767E-12
C6orf120	-0.0423388	4.42118E-12
SLC2A1	-0.2321485	4.42597E-12
RNF6	0.0139763	4.45053E-12
ZNF593	0.07637309	4.45234E-12
AC007038.2	0.08848751	4.47395E-12
DDX28	-0.0118268	4.4913E-12
DYSF	-0.0568704	4.50582E-12
CWC27	0.10699907	4.55637E-12
MSANTD4	0.07282887	4.59285E-12
YOD1	0.09392925	4.60966E-12
METTL16	0.00285137	4.63193E-12
COX7A2L	0.17744535	4.6779E-12
MKNK1	-0.0537058	4.69671E-12
PSMC1	-0.1008205	4.70814E-12
DGKG	0.03782658	4.7237E-12
HERPUD2	-0.0651492	4.74904E-12
ZNF326	-0.205078	4.79569E-12
DENND5A	-0.0145152	4.83753E-12
EID2	0.05800429	4.87543E-12
MTM1	0.09938988	4.89186E-12
PDPK1	-0.0507465	4.93468E-12
MSRB2	0.17646832	4.94124E-12
AL391069.2	0.1382753	4.97503E-12
DYNLRB1	0.20586102	5.03801E-12
DCAF13	0.04851766	5.07017E-12
USE1	0.0426216	5.11014E-12
CCNT1	-0.0366932	5.12753E-12
LINC01637	0.09031133	5.14434E-12
ASXL1	0.08522821	5.15057E-12
ADCY7	-0.0811228	5.15393E-12
C19orf18	0.05818434	5.17288E-12
RESF1	0.14163428	5.22199E-12
FUT11	0.00620268	5.22984E-12
MAN2A2	0.14641026	5.2805E-12
ATAD2B	-0.0440356	5.28894E-12
NCOR2	0.06559986	5.30641E-12
CAPZB	-0.2033666	5.36138E-12
CHEK2	0.09720118	5.36636E-12
CYCS	-0.0738962	5.43303E-12
SEC23A	-0.0566128	5.43342E-12
SLC12A7	-0.1899085	5.46228E-12
BANF1	0.13282742	5.48402E-12
ZNF564	0.03954806	5.4951E-12

RCE1	-0.0779853	5.5189E-12
AC016876.1	0.04576822	5.58773E-12
ZNF550	0.05431254	5.65204E-12
ADIPOR2	-0.1046135	5.67682E-12
TRIM22	0.11626579	5.68964E-12
KBTBD2	-0.1378503	5.74732E-12
RPL10	-0.1897156	5.82036E-12
EED	-0.0344294	5.84905E-12
SLC25A30	0.04342799	5.88986E-12
BIK	0.06180862	5.89498E-12
CRIP1	0.07604054	5.89884E-12
SMARCA4	0.10631023	5.9084E-12
MYO5A	0.06842173	5.91491E-12
PIK3C2A	0.06080584	5.95453E-12
C15orf40	0.12831039	5.98858E-12
CEBPB	-0.1146623	6.00176E-12
NUP205	0.03790243	6.06603E-12
AVL9	-0.0427491	6.09184E-12
ILF3	0.04005423	6.1628E-12
THEM6	0.07146282	6.18276E-12
EIF4E3	0.13954526	6.19813E-12
SPATS2	0.10684129	6.20209E-12
WASL	-0.0213568	6.2257E-12
PTRH2	0.08770182	6.25653E-12
BLZF1	-0.0934412	6.28633E-12
ANKMY2	-0.0455979	6.30862E-12
USP32	-0.0314609	6.34932E-12
POLK	-0.1306165	6.35104E-12
SDF4	-0.0562575	6.38447E-12
ZFAND5	0.07819263	6.46995E-12
RPAP3	0.07634255	6.5011E-12
RAB2B	-0.0031251	6.50594E-12
VCP	-0.1763884	6.53919E-12
MRPL37	-0.1041322	6.54145E-12
RER1	-0.0043508	6.54426E-12
CARS2	0.04684545	6.56442E-12
ZNF736	0.06315265	6.59533E-12
MAD2L2	-0.0408913	6.60666E-12
CDT1	-0.2642342	6.6569E-12
NAPRT	-0.1170793	6.69217E-12
LINC01341	0.05278222	6.71376E-12
IARS2	0.03971916	6.76617E-12
TENT2	-0.0051448	6.76937E-12
RYBP	-0.1203357	6.82998E-12
DNAJC16	0.10110291	6.90904E-12
ZNF577	0.08303286	6.97993E-12
SLC27A5	0.06447421	6.98891E-12
HSPG2	-0.0712245	6.99167E-12
ZNF623	0.04169481	7.02245E-12
TMED7	-0.0042958	7.02773E-12

ASB3	0.05110737	7.0282E-12
AL390728.5	0.06116953	7.04242E-12
LINC00685	0.05840699	7.0848E-12
DDX50	0.1292742	7.08909E-12
MIR762HG	0.05779467	7.12568E-12
CDKN2AIP	0.04496211	7.19053E-12
AL035530.2	0.07656734	7.20172E-12
CYFIP2	-0.1913802	7.31955E-12
ZNF888	-0.0606912	7.33734E-12
UBA7	-0.0812413	7.37688E-12
CXorf38	-0.0562589	7.4062E-12
SUOX	0.05274862	7.43404E-12
LCORL	0.15069001	7.46065E-12
PPDPF	-0.2253554	7.46517E-12
TIMM23B	-0.06108	7.53169E-12
KIZ	0.08169593	7.5444E-12
TMEM87A	-0.0083028	7.63803E-12
LINC00847	0.00158243	7.65157E-12
PLEKHA8	0.06215118	7.6712E-12
PARP14	0.01559352	7.71084E-12
MIA2	0.13766472	7.72513E-12
PLPP6	0.05377338	7.82256E-12
TRNAU1AP	-0.0942872	7.90232E-12
AC119396.1	0.03431147	7.91922E-12
DPM3	0.12147087	7.93116E-12
AC096711.2	0.04533056	7.93628E-12
DENND4B	-0.0166282	7.93838E-12
GRWD1	-0.0082677	7.94757E-12
AC108863.2	0.04083705	8.09741E-12
WWP2	-0.0152713	8.14911E-12
EEF2	0.20637158	8.152E-12
C16orf72	-0.1260468	8.15394E-12
SPATA33	-0.099279	8.1803E-12
PPP4R3A	0.0776245	8.19618E-12
ADNP	0.05523487	8.29991E-12
GPT2	-0.0570673	8.30686E-12
CD82	-0.2563206	8.3178E-12
MITF	0.08774614	8.31831E-12
ZNF234	0.05036417	8.33271E-12
PITPNB	-0.0114068	8.39203E-12
SPPL2A	-0.0870296	8.3926E-12
SLC9A3-AS1	0.04495941	8.45817E-12
AC044849.1	-0.1877788	8.48457E-12
A1BG	-0.2212501	8.51831E-12
ZNF263	0.00224719	8.64075E-12
NDUFS4	0.15302446	8.66419E-12
GRHPR	-0.1499192	8.71337E-12
ULK1	-0.0263372	8.79431E-12
DHRS1	-0.0394395	8.79597E-12
MANBAL	-0.0903773	8.81365E-12

UBA6-AS1	0.06844199	8.82015E-12
MESP1	0.07771744	8.84557E-12
GMIP	-0.0618283	8.86629E-12
BABAM2	0.01646412	8.98897E-12
PCLAF	-0.4395713	8.99436E-12
MCCC1	0.03337058	9.04654E-12
ZBTB41	0.08410362	9.12955E-12
ANKRD46	0.09240477	9.16348E-12
FAM135A	0.09379348	9.28598E-12
UBXN4	-0.2109829	9.3083E-12
HAGH	0.07654858	9.36442E-12
ARID1A	0.01912467	9.37081E-12
INTS6-AS1	0.07313508	9.4138E-12
ANKRD13A	0.03578091	9.4826E-12
SF3B6	-0.2291002	9.49413E-12
ATP1A1	-0.0982421	9.55244E-12
SQLE	-0.1882582	9.57196E-12
AC211476.6	0.05197836	9.57465E-12
KDM1B	0.05789258	9.716E-12
AURKAIP1	0.1005424	9.74787E-12
BTBD8	0.05419951	9.82677E-12
FH	0.06779022	9.84188E-12
TPRA1	0.03900507	9.8918E-12
MT-CO3	-0.2081649	1.00453E-11
CMC2	0.01328916	1.00665E-11
PRMT1	0.00625878	1.00885E-11
NAAA	-0.1318499	1.01761E-11
TFRC	-0.2237818	1.02E-11
POLR3D	0.09545356	1.02462E-11
CAVIN1	-0.1608341	1.03719E-11
AC104825.1	0.03630602	1.04075E-11
C9orf78	0.1314214	1.04505E-11
MRPS25	0.11653042	1.05033E-11
LHFPL2	-0.0803727	1.05584E-11
NAT10	0.13351353	1.05915E-11
WDR34	-0.0699697	1.06701E-11
BX284668.5	0.07723867	1.07123E-11
FOXN2	-0.1221735	1.07275E-11
AC016831.7	-0.1417277	1.07317E-11
PPP1R26	0.05318474	1.07337E-11
ZNF268	0.03512809	1.07675E-11
NOTCH2NL/	0.04183997	1.0787E-11
AC008969.1	0.11945683	1.08778E-11
SAMD8	-0.1334185	1.0886E-11
POLE4	0.04650778	1.09204E-11
MRPS6	-0.093777	1.09313E-11
RASSF7	-0.0318765	1.09428E-11
TMEM38B	-0.0760831	1.10571E-11
BRAT1	0.01809372	1.1076E-11
CASP8AP2	0.09010896	1.11314E-11

DYNC2LI1	0.06570512	1.12242E-11
CENPH	0.0074018	1.13234E-11
OSBPL8	0.24928597	1.13402E-11
DHX38	0.02320519	1.13802E-11
BISPR	0.07196123	1.15751E-11
CASP3	-0.158339	1.16113E-11
LMBRD1	0.0460522	1.16233E-11
MARCH7	-0.0008465	1.16277E-11
LRP5	0.07559371	1.16887E-11
GNB5	0.10060734	1.17729E-11
REL	-0.0817994	1.19433E-11
CMTR1	0.03733705	1.19541E-11
KDM4B	0.0247742	1.19594E-11
KATNB1	-0.1055776	1.19899E-11
COQ2	0.06372878	1.19914E-11
ZNF783	0.05796769	1.21036E-11
WDR45B	0.14103655	1.21384E-11
PIP5K1A	-0.0316108	1.21424E-11
NCBP3	0.17535025	1.2228E-11
Z99127.4	0.03100599	1.22699E-11
ECHDC2	-0.0054396	1.22923E-11
ANAPC15	-0.0890244	1.23138E-11
ZC3H11A	0.05630759	1.23218E-11
ZNF417	0.07188763	1.23981E-11
DDX20	-0.0438073	1.24199E-11
PEX16	-0.0859392	1.24322E-11
TRIM21	-0.0193873	1.24869E-11
NSUN4	0.01841323	1.25082E-11
NUP37	0.06773573	1.26259E-11
POFUT1	0.0857913	1.27646E-11
ARSA	-0.0799617	1.28854E-11
C16orf91	-0.0075767	1.29003E-11
OBSCN	0.04764035	1.29095E-11
TIMM8A	0.02530373	1.29584E-11
APOBEC3C	0.09934821	1.29874E-11
MEGF8	0.07328754	1.29941E-11
CCDC85B	0.16531519	1.31256E-11
RAMAC	0.02675268	1.31555E-11
ENTPD3-AS	0.0582913	1.32282E-11
GOLGA8Q	0.07377703	1.32542E-11
RNF115	-0.0009749	1.32675E-11
AHCTF1	-0.016774	1.33368E-11
CRYZL1	-0.0518113	1.33592E-11
PROK2	0.07446069	1.34808E-11
C1QBP	0.27674558	1.35117E-11
TEX261	0.0202933	1.37478E-11
PRKCSH	0.03298036	1.37575E-11
PLCXD1	-0.0145129	1.3759E-11
LINC01215	-0.1505312	1.39019E-11
SLC19A1	0.04898475	1.39621E-11



ANKRD26	0.12903149	1.39779E-11
RAP1GDS1	0.01252587	1.39888E-11
BCS1L	0.01956689	1.40111E-11
KBTBD3	0.05683923	1.40966E-11
TCIRG1	-0.1221001	1.4103E-11
PPP2R5E	0.05097674	1.41506E-11
UBR7	0.00969051	1.41575E-11
BTBD3	-0.0472533	1.41864E-11
KIF9-AS1	0.00819533	1.41901E-11
PDK3	0.03568817	1.46759E-11
STXBP2	-0.0435893	1.47218E-11
ERCC2	0.0631004	1.47551E-11
MTRR	0.04039683	1.48591E-11
RRM2B	0.0413072	1.4862E-11
TICAM1	-0.1716846	1.48774E-11
SMN1	0.06258113	1.49003E-11
SCRN1	-0.2032488	1.49171E-11
ZNF765	0.07927751	1.49448E-11
RBM48	0.01378275	1.49574E-11
MRPL4	0.07673541	1.50568E-11
SAMSN1	0.17772758	1.50773E-11
TRIM37	0.04633964	1.52656E-11
EIF4EBP3	0.1154105	1.52669E-11
CANT1	-0.0432486	1.54369E-11
GPATCH8	-0.0313898	1.54451E-11
ZMYM6	0.0829051	1.55089E-11
APPL2	0.03616575	1.5515E-11
DYRK4	0.03362514	1.55397E-11
SLC41A3	-0.0126448	1.55555E-11
NBR1	0.1291348	1.55715E-11
ZNF93	0.11125897	1.56886E-11
EHD4	-0.1356477	1.57257E-11
SYNE1	0.08160628	1.58621E-11
TRIM58	0.00599771	1.58871E-11
PSMD13	-0.1057701	1.59604E-11
MOCS3	0.01768667	1.59732E-11
TRAF3	-0.1491836	1.60392E-11
L3MBTL1	0.0673098	1.60773E-11
FAR2	0.01599504	1.61504E-11
MOGS	0.03990843	1.63296E-11
WAC	-0.1575979	1.63418E-11
SNN	-0.1492956	1.64973E-11
FAM53B	0.07767878	1.66738E-11
NAPA	-0.1027425	1.67421E-11
SLC35A4	-0.0122739	1.67775E-11
MTMR4	0.05810467	1.68665E-11
SYT11	-0.1978197	1.68723E-11
REPS1	0.0496679	1.71056E-11
MAMDC2	-0.1315375	1.71396E-11
SPHK1	-0.1458265	1.7277E-11

REEP3	0.08105054	1.74658E-11
LINC00476	0.10489091	1.75049E-11
MTA1	-0.0256126	1.75539E-11
RAB7A	-0.1033296	1.75668E-11
RERE	-0.0216243	1.75906E-11
ACPP	0.00610392	1.77657E-11
ZNF548	0.0361149	1.80172E-11
GPD2	0.0522661	1.80798E-11
ZFP90	0.06731918	1.83252E-11
AL031595.3	-0.1357874	1.88189E-11
GTF2F2	0.00659955	1.88235E-11
GCAT	0.0781692	1.88308E-11
WAPL	-0.0264367	1.89334E-11
TBC1D2	0.03397397	1.89699E-11
CR381653.1	0.04527767	1.89893E-11
COPS9	0.23057624	1.934E-11
MROH1	0.05513363	1.95036E-11
PLEKHM2	-0.0107691	1.9511E-11
NGRN	-0.1363052	1.95152E-11
MADD	0.0478206	1.9557E-11
MEX3C	-0.0976862	1.96497E-11
NCOA7	-0.0006572	1.96868E-11
DUSP22	-0.0076553	1.9687E-11
SENP2	-0.0390864	1.96885E-11
VOPP1	0.01345322	1.96979E-11
FIGNL1	0.0595734	1.98559E-11
TBCE	0.01781331	1.98571E-11
RASGRP2	-0.1095976	1.99494E-11
NAA30	-0.0042316	2.00945E-11
CFDP1	0.22255325	2.0101E-11
UBE2K	0.01467283	2.02038E-11
FAM3C	-0.0688058	2.03903E-11
AC008124.1	-0.0076303	2.04275E-11
ATG5	-0.0603553	2.08564E-11
DEDD	-0.1551847	2.09729E-11
CYBC1	0.04164241	2.10026E-11
FAM41C	0.03319573	2.12091E-11
LRMP	0.00905503	2.12346E-11
SPECC1L	0.0500783	2.13159E-11
CHCHD4	0.05903389	2.13978E-11
CCND2	0.00396443	2.15762E-11
PUM1	-0.1552451	2.17268E-11
SAP130	0.05834166	2.18059E-11
IRAK1BP1	0.06480417	2.1824E-11
LRP10	-0.1964051	2.19029E-11
GPKOW	-0.0316516	2.20675E-11
GEMIN5	0.07594673	2.22258E-11
P4HTM	-0.0773061	2.2274E-11
PICALM	-0.0372883	2.24483E-11
SCRN2	-0.0258764	2.2503E-11

EEF1AKMT2	0.0682202	2.25078E-11
BAZ1B	0.04033026	2.25881E-11
TMEM126A	0.02836254	2.26845E-11
RALA	-0.1286017	2.26942E-11
SLC25A15	0.04467431	2.27034E-11
VTI1B	0.04073639	2.27486E-11
FASTKD3	0.04787517	2.2844E-11
SHMT1	0.07300478	2.2865E-11
PRTN3	0.31154861	2.29243E-11
NCOA6	0.08968284	2.30635E-11
SEL1L	-0.0411092	2.31288E-11
FAM122A	0.02114556	2.33096E-11
CHD6	0.04885351	2.36342E-11
NDUFS6	0.17650052	2.36414E-11
DEGS2	0.057246	2.3715E-11
RNF24	0.18276143	2.39116E-11
CRACR2A	0.04580464	2.4238E-11
TBK1	0.00118572	2.44435E-11
CHRAC1	0.03739748	2.44691E-11
SMAD7	0.01481793	2.44947E-11
BATF	0.02478772	2.47374E-11
TSPAN33	-0.0277122	2.47884E-11
UNC5B	-0.0412579	2.48096E-11
PSPH	0.07215564	2.48565E-11
OGFOD3	0.05344636	2.48901E-11
PSMG2	-0.086481	2.50037E-11
ZNF544	0.10235779	2.52162E-11
VMAC	-0.0255564	2.52798E-11
CLPX	0.07067393	2.52945E-11
TMED5	-0.0633134	2.55119E-11
IMMT	0.06327568	2.55191E-11
IFIT3	0.05961756	2.56123E-11
IMMP2L	0.06993099	2.5619E-11
CAPN10	-0.0450229	2.57733E-11
PTK7	0.04267359	2.58348E-11
H2AFZ	-0.1605948	2.58365E-11
STX3	-0.1270109	2.59929E-11
ATP13A3	0.00255697	2.60022E-11
TNFSF13	-0.1179819	2.61225E-11
IFT74	0.13658634	2.62167E-11
KARS	0.0768396	2.63161E-11
UMAD1	0.05246434	2.63202E-11
BRF2	-0.0096943	2.66546E-11
ZFP62	0.06214621	2.67508E-11
BROX	0.14177507	2.68713E-11
NAA15	-0.0731883	2.68946E-11
USP1	-0.0381171	2.70212E-11
FO393401.1	0.02388591	2.74688E-11
MYH11	0.063115	2.77435E-11
TNRC6A	-0.0293612	2.78678E-11

LINC01578	-0.2367868	2.80932E-11
RTN2	0.06718085	2.81122E-11
RNH1	0.08268716	2.83762E-11
MRPS18B	0.02571498	2.83804E-11
AKAP11	0.09092796	2.85969E-11
TRAPPC2B	-0.0379881	2.87074E-11
ABITRAM	0.04676279	2.87274E-11
SNAPC4	0.0663436	2.88236E-11
CDC73	-0.0868499	2.89009E-11
GATAD2A	-0.0803358	2.89572E-11
DIS3	-0.0467781	2.95884E-11
CCDC137	-0.0836169	2.98275E-11
MTPAP	0.03842669	2.99511E-11
SHLD2	0.0081896	2.99928E-11
LENG8-AS1	0.0950686	3.00163E-11
RBM12	-0.0519081	3.0114E-11
ELK1	-0.0304383	3.01299E-11
TADA2A	0.06550961	3.04151E-11
D2HGDH	-0.0450239	3.06107E-11
ERC1	0.04994348	3.07597E-11
APOL6	-0.1200125	3.09063E-11
OPA3	0.01401934	3.11851E-11
WDR33	0.0190096	3.13365E-11
TOMM5	0.21774659	3.15774E-11
ADCY3	0.04445786	3.16266E-11
TIGD5	0.00805085	3.1714E-11
ZNF581	-0.0479214	3.18582E-11
NIPSNAP2	0.10283934	3.19238E-11
MFSD5	-0.0399274	3.20038E-11
HEIH	-0.0439486	3.21105E-11
VPS26B	0.03317834	3.24443E-11
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HYMAI	-0.0451208	3.25059E-11
SAE1	0.03430896	3.25096E-11
ZYG11B	0.10574991	3.26266E-11
MLXIP	0.07553528	3.26303E-11
FAM200B	0.05630951	3.29698E-11
HEXB	0.07826523	3.30537E-11
SECISBP2L	-0.1054581	3.33376E-11
MRPL45	0.12872141	3.35149E-11
SCMH1	0.04397556	3.40844E-11
EVI2A	0.16852575	3.42363E-11
PSMD2	0.10115925	3.42913E-11
TFEB	-0.1418244	3.46051E-11
ACSF3	0.14606309	3.49837E-11
SHMT2	0.03121331	3.51196E-11
POU5F2	0.06578612	3.52699E-11
GRSF1	0.07459713	3.52986E-11
AC092279.1	0.03300183	3.53024E-11
ZNF174	0.04431705	3.53712E-11

PARVG	0.13309754	3.55395E-11
RCCD1	0.08638201	3.55422E-11
TP53RK	0.03008597	3.55792E-11
ELOVL5	0.01025008	3.60326E-11
TLE3	-0.0467412	3.61635E-11
ABCA2	0.01166896	3.6199E-11
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RUVBL2	0.02224472	3.64148E-11
MCM9	0.06578627	3.65149E-11
FAM184B	0.05249141	3.67156E-11
SERINC3	0.08836348	3.68969E-11
SLC7A6	-0.1094501	3.74621E-11
FEM1B	-0.0427796	3.74696E-11
RAB12	0.02599654	3.75627E-11
MKLN1	-0.1042212	3.77958E-11
TRAF7	0.03157964	3.81585E-11
ARHGAP17	-0.0020468	3.81781E-11
DPP3	0.01668591	3.83119E-11
PDS5A	0.11149142	3.90611E-11
TPGS1	-0.0058646	3.96437E-11
MRPL35	0.08930895	3.96683E-11
SLC38A1	-0.2928006	3.97066E-11
PTPN9	-0.0618926	4.01846E-11
WRAP73	0.03234583	4.02358E-11
NIBAN1	0.2748004	4.03068E-11
USP25	0.0741336	4.03534E-11
ASCC2	0.08452082	4.03927E-11
VPS54	0.086076	4.0487E-11
TNKS2	-0.0585298	4.05781E-11
IKBKE	-0.0746879	4.06313E-11
CIAO1	0.08287497	4.06773E-11
ACTR2	0.19081139	4.07324E-11
PLCL2	0.04397289	4.08589E-11
CASTOR2	0.07397532	4.09492E-11
SNAP47	-0.0440473	4.11671E-11
C1orf216	-0.0053072	4.1272E-11
NECTIN2	-0.1518922	4.14576E-11
HERC3	-0.0457596	4.14742E-11
DDX31	0.06320376	4.15489E-11
TMEM64	0.04413452	4.18082E-11
ILKAP	0.01849052	4.20311E-11
FLII	-0.0197646	4.22182E-11
ZP3	0.06019024	4.23451E-11
ACACA	-0.0142086	4.25716E-11
TRIB3	-0.1542503	4.28528E-11
NUB1	0.08833364	4.29014E-11
TMX2	0.06063713	4.29783E-11
STK3	0.08580536	4.36995E-11
CRBN	-0.1783721	4.3899E-11
UPF1	-0.0717736	4.39403E-11

KBTBD6	0.02535017	4.40179E-11
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FBXO46	0.03424529	4.43071E-11
XRN1	0.04955207	4.49209E-11
MBNL2	0.03331696	4.50121E-11
ABHD16A	-0.083585	4.50795E-11
FASTKD2	0.01300627	4.51473E-11
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MPP5	0.0220919	4.63412E-11
SCML2	-0.1256002	4.70332E-11
MED31	-0.1001018	4.72491E-11
VWA8	0.06708286	4.72771E-11
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TBC1D7	0.00982779	4.74645E-11
SOX18	-0.1918914	4.79051E-11
CDK5RAP2	-0.0611125	4.86329E-11
PSMB4	-0.0740174	4.90833E-11
GABPB2	0.10493522	4.94642E-11
ZCCHC9	0.06906206	4.97926E-11
MEMO1	0.06911373	4.97944E-11
EPS15L1	0.09060875	5.01234E-11
AL121933.2	0.03733911	5.04604E-11
ZNF665	0.09776308	5.05385E-11
PDSS2	0.07412286	5.09039E-11
GOLGA8B	0.06889456	5.09137E-11
SRP54	-0.0204624	5.09402E-11
SLC38A2	0.0482157	5.15452E-11
CLN6	0.06261007	5.192E-11
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GEMIN2	0.02865143	5.24748E-11
TOPORS	0.06316039	5.27458E-11
SMAD4	-0.0695752	5.28582E-11
CDC26	0.03738545	5.29905E-11
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JADE2	-0.0641344	5.36557E-11
TSPOAP1	0.07425965	5.40818E-11
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AMPD2	-0.0966847	5.42566E-11
FAM160B2	-0.0996724	5.46793E-11
CXorf40B	-0.0368251	5.47744E-11
SLC12A6	0.10505125	5.49915E-11
SPIRE1	0.06143789	5.50993E-11
NFU1	0.07204262	5.51163E-11
ITPR1	0.15452702	5.53152E-11
SRCAP	0.026102	5.58849E-11
PSMD1	0.05669327	5.59326E-11
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MPZL1	0.10392121	5.64249E-11

UNC45A	-0.030172	5.67202E-11
ACTR3B	0.05881248	5.68459E-11
SRI	-0.0989073	5.68664E-11
PMPCB	0.15119011	5.69011E-11
INTS2	0.08714381	5.70987E-11
ZNF383	0.08166887	5.74903E-11
RUNDC1	-3.37E-05	5.95596E-11
RIMKLB	-0.1287357	5.99145E-11
HOXA4	0.04715637	6.06694E-11
WDR37	-0.0285042	6.0833E-11
ZFAND2A	-0.1677919	6.09161E-11
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CENPQ	0.06013309	6.14903E-11
IL4R	-0.1685692	6.17091E-11
FNIP1	0.13270563	6.17298E-11
CLMN	-0.0899617	6.18746E-11
AC025171.4	0.06646563	6.19211E-11
DHX9	0.17790122	6.20137E-11
RGS3	-0.1563857	6.20872E-11
SLC1A5	-0.1687942	6.23326E-11
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MARCH6	0.04594709	6.30582E-11
DENND1A	0.02728854	6.32474E-11
HSPBP1	-0.0363555	6.37232E-11
ING3	0.0394607	6.37334E-11
ACY1	0.00888795	6.3858E-11
LSM14A	0.02772637	6.38638E-11
VAMP7	-0.0100482	6.38761E-11
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LTBR	-0.1383232	6.43525E-11
TMEM8A	-0.0037559	6.45787E-11
TADA3	0.06365857	6.46117E-11
LARP7	0.17324302	6.47348E-11
NRBF2	0.01967833	6.49504E-11
KIAA1191	0.02895705	6.53767E-11
LAS1L	0.06735292	6.59547E-11
ZFP3	0.06505498	6.63331E-11
BRCA1	0.00068738	6.65254E-11
AL133330.1	-0.1679473	6.81598E-11
CREM	-0.2476051	6.88696E-11
NBEAL2	-0.2083072	6.89853E-11
BLM	0.09310107	6.94082E-11
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FNTB	0.08725405	6.9579E-11
SLC23A2	0.02197905	7.00233E-11
ATF7IP	0.13717074	7.13583E-11
ECSIT	0.02188313	7.15528E-11
TSPAN31	-0.0038899	7.17958E-11
HM13	-0.0769584	7.18034E-11
VPS37A	-0.0080559	7.21509E-11

KIF2A	-0.1659946	7.22062E-11
CSE1L	0.05063527	7.23854E-11
ZNF404	0.06128133	7.26844E-11
ARHGAP9	-0.1157882	7.41941E-11
SMIM4	0.11223019	7.42818E-11
CRISPLD1	0.06364801	7.43508E-11
NDUFS7	0.13762262	7.44639E-11
LINC01150	0.03936983	7.44849E-11
AC092171.5	0.05291664	7.52439E-11
PHF12	-0.0436252	7.54163E-11
RDX	-0.100579	7.64435E-11
NCBP1	0.08845615	7.67279E-11
RPS6KB2	-0.0614372	7.72518E-11
RORA-AS1	0.07942625	7.72677E-11
ACP5	0.04997034	7.78446E-11
CYB5RL	0.05966646	7.78573E-11
ZNF586	0.04073332	7.82014E-11
TMEM129	-0.0294126	7.85777E-11
INTS7	0.0361965	7.8862E-11
GPATCH2L	0.17767703	7.89431E-11
STK25	-0.0132027	7.89462E-11
ZNF721	0.10770112	7.90347E-11
ACAT2	0.0511795	7.93461E-11
PRDX4	-0.0815781	7.95656E-11
ARL2BP	-0.1440557	7.95989E-11
ZNF485	0.05700755	8.07668E-11
ECI1	-0.0264082	8.14263E-11
MEN1	0.04510289	8.14286E-11
MEGF6	0.04078608	8.20106E-11
PXMP4	0.07931998	8.20883E-11
CCDC62	0.06999363	8.25428E-11
XPA	0.09845228	8.30751E-11
METTL1	0.08180806	8.37141E-11
TRIM23	0.0094546	8.3753E-11
LSM3	-0.031798	8.54841E-11
NUDT18	-0.072132	8.58932E-11
CYREN	-0.0015741	8.59895E-11
XPO7	0.05876418	8.63067E-11
FABP5	0.27206144	8.68995E-11
ENTPD6	0.00870374	8.70857E-11
ERCC1	-0.0237378	8.75892E-11
ARSK	0.04605301	8.76878E-11
KRR1	-0.0051968	8.77855E-11
NCK2	0.02002894	8.85379E-11
BTBD10	-0.1532175	8.8868E-11
SETD2	-0.1610933	8.90315E-11
GBE1	0.00530806	9.00054E-11
PLEKHF2	-0.0378558	9.00069E-11
LINC00910	0.06828145	9.03339E-11
ZZEF1	0.01857917	9.12227E-11



ATPSCKMT	0.09492154	9.1235E-11
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PTGR2	0.10266693	9.15409E-11
EPGN	0.06224211	9.17137E-11
CCAR2	-0.0144347	9.20695E-11
LIMA1	0.07389266	9.22592E-11
KRT8	0.05823726	9.24897E-11
EDEM1	-0.0425059	9.24974E-11
CD7	-0.0833485	9.25073E-11
TMEM223	-0.0619651	9.26581E-11
WDR20	-0.085075	9.33056E-11
STAM2	0.00351023	9.35001E-11
TRMT2A	0.03582729	9.5137E-11
BX842570.1	0.03848205	9.61451E-11
GNPNAT1	-0.1168768	9.7142E-11
CHERP	-0.0107741	9.77313E-11
ZNF669	0.02561555	9.77748E-11
ATP6V1C1	-0.027533	9.79042E-11
PIGG	0.02376234	9.79562E-11
NAA25	0.02989633	9.89079E-11
SGF29	0.1117314	9.9004E-11
SF3A2	-0.0895803	9.9971E-11
CCDC171	0.06720532	1.00744E-10
AC139099.2	-0.1386346	1.02397E-10
AC018362.1	0.0887283	1.03591E-10
FAM98C	0.01491377	1.03961E-10
DNAJC7	-0.1532845	1.04884E-10
MAGEF1	0.05219052	1.05197E-10
RNF25	-0.108365	1.05306E-10
PISD	-0.0986508	1.06984E-10
TESMIN	0.09811817	1.07364E-10
CCT4	-0.0360651	1.07631E-10
TAF6	-0.0317496	1.07659E-10
LIMK2	-0.0463679	1.07743E-10
MAIP1	-0.0350584	1.07954E-10
IFI6	-0.0325372	1.07985E-10
GBP3	0.06229016	1.09007E-10
ZNF629	0.00964086	1.09163E-10
ZNF90	0.09495553	1.09612E-10
KMO	0.0478248	1.10593E-10
SNAPC1	0.06794725	1.11365E-10
CGRRF1	-0.1311143	1.1274E-10
ATP6V0E1	0.20335114	1.12831E-10
COG4	0.06296689	1.13141E-10
HNRNPA1P <sup>2</sup>	-0.1042691	1.13179E-10
MRPL46	-0.0118923	1.13624E-10
LRCH3	0.01108522	1.14482E-10
TCEAL3	-0.2157236	1.1504E-10
DNAJB1	0.01602694	1.15362E-10
POLR3E	0.05170018	1.15869E-10

RXRA	-0.0727186	1.16219E-10
ZNF512B	-0.0480524	1.1626E-10
FAR1	-0.1758392	1.16278E-10
FBXO41	0.03651552	1.16704E-10
PSMA3-AS1	0.22053106	1.17172E-10
ALOX12-AS'	0.05765356	1.1725E-10
CHCHD5	-0.0510089	1.17537E-10
RPL19	-0.1918924	1.17941E-10
P2RY10	0.05976079	1.19672E-10
RSBN1	0.04626003	1.20321E-10
ACP6	0.06566618	1.20425E-10
SELENOP	0.30744656	1.21233E-10
COPS4	-0.1696193	1.21566E-10
NIPA2	-0.0435337	1.21956E-10
C3orf33	0.0563232	1.22033E-10
USF1	-0.0724459	1.23054E-10
MYO9B	-0.0064775	1.23702E-10
PRRC2B	0.06634714	1.2452E-10
TMTC2	0.06741524	1.24876E-10
DPP7	-0.1436528	1.25036E-10
UNC93B1	-0.0848712	1.25121E-10
VPS28	-0.0872519	1.26473E-10
MICOS10	0.11944713	1.27482E-10
ACD	-0.0376221	1.29563E-10
XPR1	0.0814629	1.308E-10
ELK3	0.08765874	1.30973E-10
PSMD5	0.00420808	1.31118E-10
TRIM52	0.06318009	1.31356E-10
DTD1	0.0092149	1.31542E-10
CAPN15	-0.020308	1.31591E-10
HOXB4	0.0535815	1.31689E-10
MMADHC	0.0573938	1.31817E-10
RFT1	0.06892302	1.31859E-10
UGP2	0.13741478	1.32054E-10
WT1	0.04169829	1.32527E-10
FAM13B	0.01754189	1.32783E-10
SFXN5	0.08821352	1.3289E-10
U91328.1	0.04218511	1.33219E-10
CCDC189	0.03849674	1.33965E-10
RBMXL1	0.032849	1.33984E-10
WT1-AS	0.07040602	1.34053E-10
DERL3	0.08865254	1.34409E-10
ZNF649	0.05484016	1.35306E-10
LRRRC69	0.05586764	1.3553E-10
ANAPC4	0.04677433	1.35863E-10
SMAGP	0.03456422	1.3638E-10
PFKP	-0.0665548	1.36469E-10
STAM	0.05266374	1.38159E-10
MAN1B1	-0.0230624	1.38314E-10
RPS26	0.20453107	1.38751E-10

ZNF518B	0.08839077	1.40226E-10
METTL17	-0.0172972	1.40503E-10
TMEM109	0.04506632	1.40809E-10
MCAT	-0.0889576	1.41717E-10
NUBP1	-0.073407	1.4179E-10
ZNHIT2	-0.0905886	1.42122E-10
ARHGEF3	-0.1247529	1.42494E-10
EXOC6	0.02232143	1.43072E-10
AC080038.1	0.05010932	1.45981E-10
AC002558.3	0.00175992	1.46145E-10
SMIM15	0.02678456	1.46756E-10
PHRF1	0.00204588	1.48744E-10
B3GNT5	-0.066874	1.49044E-10
RCOR3	0.15321587	1.50596E-10
TXNRD1	0.05658295	1.50938E-10
ERCC4	0.08929652	1.51022E-10
PGPEP1	-0.0779423	1.51965E-10
PPAN	-0.0963831	1.51976E-10
FEM1C	-0.0866595	1.52919E-10
ZNF264	-0.1059389	1.5399E-10
THEM4	0.06967697	1.54114E-10
AC102953.2	0.04154382	1.54448E-10
NPAT	0.03967495	1.57945E-10
RLF	-0.0294275	1.58672E-10
HNRNPLL	0.07465695	1.59504E-10
ZMIZ1	-0.0732348	1.59772E-10
COTL1	0.04890755	1.60093E-10
DAP	-0.0555195	1.60276E-10
LRRC27	0.07519802	1.60792E-10
MARC1	0.05350905	1.61057E-10
TMEM44	0.01218515	1.61172E-10
GRINA	0.01520048	1.61457E-10
AGO3	0.11824617	1.61579E-10
C1orf35	-0.0815491	1.61651E-10
CORO1B	0.04675732	1.62188E-10
AL162595.1	0.05804088	1.62383E-10
GON4L	-0.1442353	1.63046E-10
DCAF5	-0.0162357	1.63625E-10
MECP2	-0.0490605	1.63646E-10
SP140L	0.04826112	1.65222E-10
KDM2B	0.06042033	1.65634E-10
STX11	-0.1821135	1.66589E-10
MALSU1	-0.0043246	1.66901E-10
ITPA	0.06932746	1.67182E-10
POLE	0.01888506	1.67374E-10
DIDO1	-0.0439444	1.68093E-10
BOLA2	0.03265924	1.6996E-10
SMARCD1	0.02263744	1.70482E-10
ZFAND6	-0.1258615	1.70765E-10
HIPK3	-0.1350368	1.71582E-10

PTOV1	-0.0657498	1.73152E-10
ANKRD13C	-0.0012008	1.73201E-10
CLEC11A	0.13871773	1.73903E-10
MED16	-0.0177822	1.74185E-10
LCT	-0.1225769	1.74543E-10
KLF16	-0.129339	1.7474E-10
RTCA	-0.0656065	1.75174E-10
PCYT1A	-0.0884756	1.75841E-10
BTA1F1	-0.0435491	1.76166E-10
TMEM184B	-0.0697193	1.76585E-10
ZC3H12A	-0.1549924	1.76599E-10
ADAM8	-0.1883603	1.76714E-10
RAB30-DT	0.06610767	1.77389E-10
ANKRD36C	0.1289763	1.77579E-10
PDLIM5	0.04022718	1.80425E-10
GAB2	-0.1335093	1.80611E-10
AC004865.2	-0.0271587	1.82145E-10
FAHD2B	0.04474888	1.82197E-10
CLIC2	0.06914808	1.82306E-10
LNCAROD	0.1018785	1.82369E-10
CTDP1	-0.0958844	1.83868E-10
OLA1	0.14350071	1.84362E-10
PEX2	-0.0236784	1.84521E-10
MED29	-0.0544011	1.84944E-10
FAM98A	0.06156982	1.85246E-10
RTTN	0.0550912	1.8528E-10
SPAG1	-0.1521403	1.85712E-10
ASB13	0.08612682	1.86286E-10
C11orf49	0.0347383	1.86325E-10
SPDYE3	0.06012655	1.87001E-10
AP000766.1	0.05794659	1.87149E-10
SLC1A4	0.05565377	1.88113E-10
FTO	0.07976829	1.88921E-10
AC097376.3	0.06839718	1.89923E-10
PDE12	0.0082159	1.91776E-10
LBHD1	0.03180002	1.93119E-10
SUPT4H1	-0.0583631	1.93674E-10
FUS	0.27035642	1.94838E-10
STAT4	-0.1197421	1.97018E-10
ITGAV	0.05196853	1.97374E-10
RPL21	0.14901322	1.97537E-10
SKIL	-0.0818801	1.98071E-10
DNAJC15	-0.1672823	1.98148E-10
ERMARD	0.0504457	1.98654E-10
KLHDC10	-0.0759283	1.98983E-10
DNTTIP2	-0.0305586	1.99056E-10
LINC00963	0.03147189	1.99114E-10
PPP1R2	-0.092882	1.99374E-10
NKRF	0.00168237	2.0135E-10
ATOX1	-0.1294992	2.01956E-10

PIK3AP1	0.13292494	2.01994E-10
ODR4	0.04880972	2.04036E-10
UBXN8	0.04861914	2.04629E-10
HYOU1	-0.0007666	2.05753E-10
HELLS	-0.1459924	2.0645E-10
TGFBRAP1	-0.0622251	2.06985E-10
AZIN1-AS1	0.04248813	2.07791E-10
KLHL5	-0.0297004	2.08341E-10
AAGAB	-0.0728517	2.08423E-10
DGCR2	0.03567167	2.10459E-10
HSD17B7	0.0405077	2.10793E-10
MNT	-0.1089995	2.1122E-10
SLC25A29	-0.0859763	2.1138E-10
GAA	-0.008875	2.12216E-10
TTPAL	-0.0299215	2.12869E-10
TPGS2	-0.0235672	2.13355E-10
SMG5	-0.0244336	2.13363E-10
COPS8	-0.0823154	2.15666E-10
AC091607.2	0.06747234	2.16391E-10
G3BP1	0.26241138	2.16769E-10
XPO6	0.03098575	2.17194E-10
CEP120	0.09121528	2.18422E-10
FBXL17	0.08143694	2.18921E-10
STAP1	-0.1419743	2.19536E-10
METTL14	-0.0175192	2.23206E-10
RBM18	0.01060778	2.2435E-10
ZFC3H1	0.13962569	2.24535E-10
PRKRIP1	-0.0403758	2.24673E-10
AP1S2	0.12758747	2.25224E-10
PTPN7	-0.1212676	2.25843E-10
CDK2	0.00036636	2.25887E-10
EXOSC7	0.04225437	2.26936E-10
ERMAP	0.05078073	2.27059E-10
LEPROT	0.09130126	2.27509E-10
ABL1	-0.0307271	2.2782E-10
LINC01003	-0.0876028	2.29119E-10
MRPL20	0.1201803	2.29292E-10
IL10RB	0.00600834	2.31143E-10
CPNE2	-0.1129517	2.33923E-10
ANKRD54	-0.0500976	2.35179E-10
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ANGPT2	0.05744818	2.35984E-10
NDUFS8	-0.0301016	2.37088E-10
AP1G2	-0.0424688	2.39945E-10
NFE2	0.17381365	2.4181E-10
QTRT2	-0.0073069	2.43316E-10
GSTM2	0.03056174	2.45125E-10
GLCCI1	0.06607793	2.4544E-10
MAP1A	-0.2432424	2.45758E-10
NCOA2	0.04876379	2.45935E-10

COG8	0.05446018	2.46182E-10
SELENON	0.04325885	2.49352E-10
ZNF768	0.01320474	2.50498E-10
CAVIN2	-0.030682	2.51571E-10
IMPA1	0.03611765	2.51633E-10
RGP1	-0.0313731	2.53043E-10
RASSF3	0.00098517	2.54729E-10
MAD1L1	0.04311213	2.55442E-10
RBBP7	0.03788038	2.55589E-10
AC127502.2	-0.0281786	2.56264E-10
RETREG3	-0.0415853	2.58154E-10
BCAT2	0.06496302	2.58582E-10
AC002454.1	0.03220939	2.60055E-10
ZFYVE21	-0.0262466	2.60266E-10
RNF38	-0.116856	2.62887E-10
PFKL	-0.0188197	2.63085E-10
RPSA	-0.2735422	2.65108E-10
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PHPT1	-0.0114157	2.69479E-10
AP5B1	0.07151929	2.71035E-10
BRWD1	0.10134128	2.73847E-10
RBKS	0.06490311	2.74509E-10
MRPL13	-0.0844268	2.74728E-10
HIST1H2AH	0.05623177	2.74879E-10
HCFC2	-0.1230957	2.75291E-10
RIF1	0.07484119	2.75516E-10
ABCC5	0.06818166	2.77281E-10
SZT2	0.0423989	2.7782E-10
CSRP1	0.0542086	2.79027E-10
NUP214	0.09515855	2.80137E-10
NRSN2-AS1	0.05529728	2.82948E-10
TSTD3	0.04525022	2.84191E-10
BCL10	-0.044359	2.85136E-10
CEP85	0.06678685	2.86444E-10
GTF2H1	0.02532826	2.87404E-10
ZCWPW1	0.05946672	2.88164E-10
FXR2	-0.045529	2.89842E-10
TMEM222	-0.0303902	2.90204E-10
PRCP	0.02778801	2.91399E-10
MAEA	-0.0552846	2.91463E-10
BIRC6	0.0882705	2.9184E-10
UBE3A	-0.1001477	2.93774E-10
OGFR	0.01728285	2.93805E-10
TNKS	0.02443843	2.94253E-10
THAP7	0.00312706	2.95034E-10
AL354822.1	0.06010406	2.95666E-10
CGAS	0.1084111	2.96793E-10
RAMP1	0.0896127	2.98207E-10
ZNF589	0.04375963	2.99504E-10

HDGFL2	0.01139506	3.00358E-10
MARVELD1	0.05524332	3.01602E-10
SPIN2B	0.05637425	3.04615E-10
NDUFA1	0.21184422	3.07682E-10
GTF3C5	-0.0698248	3.08953E-10
DHRS11	0.08538517	3.09998E-10
KCTD18	0.04351991	3.10869E-10
UBE2Q1	0.11021316	3.1679E-10
DHRS4L2	0.08087955	3.19373E-10
CCDC77	0.05393708	3.22676E-10
RFC1	-0.137852	3.23817E-10
SCAMP2	-0.1251578	3.25345E-10
CDC37L1	0.00877567	3.25477E-10
NT5C2	0.00352677	3.25908E-10
ARHGAP35	0.03848219	3.26344E-10
SNX5	0.01351389	3.27634E-10
MEAF6	-0.0096976	3.2842E-10
CXCL8	-0.8631588	3.29502E-10
FAM193B	-0.0055032	3.30622E-10
ADGRE1	0.08062728	3.31519E-10
ZNF337-AS1	0.05966482	3.32067E-10
EXOC8	0.0502434	3.33972E-10
SRP19	-0.1276986	3.34171E-10
RALGAPA1	-0.1336445	3.35692E-10
MTFP1	-0.0098308	3.37657E-10
DCAF1	-0.0042498	3.39785E-10
CCDC43	0.00656818	3.45754E-10
TAB3	-0.0174282	3.46043E-10
MINDY2	-0.1451217	3.46999E-10
SCOC	0.02411715	3.52489E-10
CACNA2D4	0.04372655	3.5322E-10
NMB	0.02353335	3.54388E-10
CCT6B	0.05604542	3.56785E-10
ZDHHC14	0.05324769	3.57428E-10
COP1	-0.0102804	3.58096E-10
PHKA2	0.09474486	3.59084E-10
CEP164	0.04966015	3.61072E-10
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CYB561	-0.1075125	3.64225E-10
CENPC	-0.0254234	3.6431E-10
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MAP4K5	0.0205697	3.72072E-10
KLHL20	-0.0206863	3.72454E-10
SMARCA2	0.19305131	3.74093E-10
DICER1	0.15630691	3.83664E-10
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FYCO1	0.03814839	3.9392E-10
NFX1	-0.0617261	3.95802E-10
CDKN1C	0.25287265	3.9599E-10
XRCC1	0.00058611	4.00859E-10

KCTD2	-0.030142	4.02926E-10
POGK	0.07536135	4.06216E-10
KLHL8	0.09105871	4.13153E-10
MTG1	0.04011014	4.14524E-10
POLR1C	0.05144587	4.14552E-10
PGM1	0.07872242	4.18607E-10
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AL109615.4	0.06227389	4.19636E-10
ZNF7	0.02614859	4.20329E-10
RRP8	-0.0220411	4.24961E-10
MRGBP	0.04796605	4.25463E-10
NSMCE2	0.01994866	4.25581E-10
USP16	-0.1701177	4.25887E-10
PITPNA	-0.052863	4.28787E-10
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SIAH1	-0.0208942	4.31473E-10
C11orf21	-0.082588	4.32428E-10
DENND4C	0.01304636	4.3301E-10
SEC24B-AS1	0.04484614	4.34123E-10
MEF2C-AS1	0.04043846	4.40323E-10
MAD2L1BP	-0.1142808	4.41527E-10
METTL9	-0.0581832	4.41608E-10
AP5Z1	-0.0534128	4.47762E-10
ARMC8	-0.0220271	4.50872E-10
NUBP2	0.05150883	4.51043E-10
ISCU	0.21775463	4.53863E-10
SPCS3	-0.1494784	4.5732E-10
SUMF2	0.13668767	4.58094E-10
TUBE1	-0.0119352	4.644E-10
SEPTIN1	-0.1090976	4.65939E-10
WDR27	0.07453948	4.68689E-10
ZDHHC18	-0.1193083	4.7425E-10
LYPLA1	0.13135128	4.74376E-10
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ATN1	-0.0167881	4.79615E-10
ZDHHC23	-0.0554508	4.79715E-10
SCD5	-0.1193153	4.80088E-10
HEXA	-0.0878792	4.85955E-10
PMEPA1	-0.1783589	4.90065E-10
PI4KA	0.118849	4.90618E-10
PMM2	0.09318019	4.94777E-10
PREB	0.03798101	4.9508E-10
TMEM267	0.0856365	4.96821E-10
DUSP12	-0.0513229	5.01688E-10
AGA	0.05352684	5.04531E-10
GFM2	0.05889733	5.06081E-10
ITPRIPL2	0.01790451	5.06733E-10
KPNA3	-0.0314861	5.06918E-10
RSF1	-0.1860459	5.07636E-10
URB1	0.10834011	5.07809E-10



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SETD4	-0.0275885	5.07982E-10
C12orf73	0.04752317	5.08766E-10
APTX	0.01693424	5.09043E-10
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TMEM9B-AS	0.07902731	5.11926E-10
ZKSCAN5	0.02062403	5.16372E-10
HERC1	-0.0097118	5.17275E-10
CHRNA1	0.01577414	5.20835E-10
TBPL1	-0.0458709	5.22795E-10
NUP35	0.04063344	5.23769E-10
L3MBTL3	0.07779613	5.24758E-10
FAM168B	-0.0697354	5.26178E-10
BZW1	-0.1919417	5.2634E-10
DAPK1	-0.1126031	5.27751E-10
NOC4L	-0.019395	5.28763E-10
GSE1	-0.0195382	5.31253E-10
PRDX5	-0.2424344	5.34118E-10
NACC1	-0.1037246	5.3486E-10
BAG5	0.042242	5.35E-10
SFXN4	0.102279	5.37675E-10
CCDC34	0.12076406	5.40509E-10
RNGTT	0.00796939	5.41466E-10
PEX13	-0.1150539	5.4181E-10
ALG9	0.02656482	5.45402E-10
POR	0.03354057	5.45544E-10
JAK3	-0.1292981	5.50499E-10
CHKB-DT	0.05818065	5.50778E-10
YEATS2	0.03250949	5.51495E-10
PLCE1	0.05659442	5.5163E-10
TAF3	0.05806272	5.52867E-10
B3GNT2	0.08510693	5.52965E-10
TBXA2R	-0.1306729	5.54073E-10
ZDHHC5	-0.0097093	5.57143E-10
HPS4	0.02071297	5.59964E-10
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KPNA1	-0.0632983	5.61012E-10
RBBP8	0.03641792	5.61093E-10
BIVM	0.07259716	5.63494E-10
TTL12	0.04551203	5.64589E-10
MED13	-0.0383143	5.65396E-10
ANKRD42	-0.0606225	5.66081E-10
HDAC5	-0.1118823	5.66333E-10
ZNF507	0.0993411	5.68352E-10
SECISBP2	0.00577333	5.69398E-10
BCAT1	-0.0199034	5.75322E-10
POLRMT	0.07065696	5.8093E-10
PDCD7	0.0786502	5.82755E-10
PRRC2C	-0.2675474	5.84131E-10

CD59	-0.0922978	5.85122E-10
AKR7A2	-0.0485759	5.85129E-10
EXOSC9	0.02269941	5.901E-10
MED19	-0.1317572	5.94289E-10
SPSB2	-0.0677835	5.94391E-10
CD33	-0.1133728	5.94692E-10
ATP13A2	-0.0560871	5.98046E-10
TOM1L2	-0.0547458	6.07739E-10
TKFC	-0.0075825	6.17444E-10
MCMBP	0.07081385	6.2563E-10
TYSND1	0.04732284	6.30501E-10
LRP8	-0.0682308	6.40644E-10
ZNF791	0.03195593	6.45062E-10
H1FO	-0.0832729	6.46421E-10
MYO18A	0.11180823	6.48389E-10
TCTN1	-0.0534102	6.52699E-10
KIF23	0.06487962	6.55783E-10
SLC16A1	0.05988951	6.56113E-10
NDUFA7	0.01215629	6.59942E-10
TRIP4	0.06948766	6.64849E-10
CNTROB	0.023474	6.70181E-10
GBA	0.02610369	6.72155E-10
AL512625.3	-0.034323	6.72597E-10
SMIM3	-0.2198149	6.74129E-10
NBPF26	0.03988364	6.74347E-10
IL2RG	-0.3322644	6.7448E-10
ZNF331	-0.0007078	6.74595E-10
SHC1	-0.0426611	6.77448E-10
PEX6	0.05056607	6.78551E-10
POGZ	-0.0641421	6.80216E-10
AC245060.6	0.0503279	6.80715E-10
MAML3	0.09545356	6.85074E-10
UROS	0.20217822	6.90477E-10
RFX5	0.03331468	6.91443E-10
TPX2	0.02703252	6.96E-10
TRIM2	0.07680585	7.03435E-10
CCDC102A	-0.0203808	7.04417E-10
ATXN1L	-0.0872935	7.06514E-10
TMEM141	-0.017367	7.12102E-10
EIF1AD	-0.0804058	7.22047E-10
NDRG1	0.11714243	7.28699E-10
MCRS1	0.01753718	7.41837E-10
TASOR2	0.11745983	7.44669E-10
CTDSP2	-0.0930972	7.45693E-10
IFI27L2	0.10300639	7.5023E-10
STRADA	0.00032464	7.52011E-10
CCNL2	-0.1119296	7.54268E-10
GNRH1	-0.1107409	7.54599E-10
SNHG16	0.21912847	7.60431E-10
ZNF266	0.00128657	7.6171E-10

IFFO1	0.03954323	7.61978E-10
BYSL	-0.0085042	7.69501E-10
TSC2	0.01832669	7.70268E-10
CUL4A	0.04209293	7.70914E-10
HOMEZ	0.04013707	7.73696E-10
CD3EAP	0.08789477	7.75474E-10
RABGGTA	0.04358158	7.79904E-10
ZNF724	0.06882558	7.92496E-10
NANP	0.01327254	7.97675E-10
NAA35	-0.0110876	7.98907E-10
C12orf57	0.13464608	8.04032E-10
DET1	0.05717628	8.04784E-10
DPP9	-0.0276348	8.05459E-10
GPR89B	0.05004959	8.08662E-10
IMPAD1	-0.0148643	8.09534E-10
TTC27	0.06741642	8.10598E-10
HNRNPF	-0.1991311	8.12432E-10
HS6ST1	0.09853107	8.13382E-10
GPR180	0.06320742	8.13665E-10
CHST10	0.03852441	8.17966E-10
CTPS2	0.00890424	8.18221E-10
USF3	0.03284283	8.18791E-10
GTF3C4	-0.018957	8.21556E-10
PRMT9	0.02775992	8.29938E-10
GPATCH3	0.00312614	8.4514E-10
AC092338.3	0.04162353	8.52082E-10
SLC1A3	0.05827533	8.5316E-10
MEF2D	-0.092228	8.56376E-10
NUDT15	0.04418954	8.68136E-10
LCMT1	0.00508502	8.68493E-10
USP42	-0.0474321	8.79025E-10
RGL2	-0.1391293	8.81879E-10
TTF1	-0.05193	8.82498E-10
SPTY2D1	-0.1402332	8.85735E-10
NELFCD	-0.0163854	8.86003E-10
AC058791.1	-0.1438958	8.86519E-10
COQ8B	-0.0225353	8.90967E-10
CCT2	0.03115377	8.92883E-10
NAT9	-0.0641202	8.94589E-10
POLD4	-0.0076122	8.9634E-10
RAVER1	-0.0091336	8.9858E-10
HPS5	-0.0015653	8.99829E-10
DCP1B	0.0037233	9.06108E-10
RGPD5	-0.0270383	9.11511E-10
CAMKMT	0.05632507	9.14705E-10
DCTN1	0.03157393	9.15523E-10
SREK1IP1	-0.0019981	9.17948E-10
PTGDS	0.43985925	9.27181E-10
FCGRT	0.10710294	9.2794E-10
FGD4	0.04162462	9.37676E-10

SLC31A2	-0.0986315	9.46329E-10
MORN2	0.00249563	9.58413E-10
ABHD18	0.0497516	9.60513E-10
ANKRD33B	0.07381435	9.6113E-10
NME3	0.05951103	9.62275E-10
MMP17	0.04395292	9.66695E-10
ARHGAP22	0.16315618	9.69286E-10
CARD8	0.14321985	9.7116E-10
TBKBP1	-0.0697283	9.72929E-10
CS	0.08532859	9.73944E-10
PHF10	0.04060663	9.74028E-10
PRDX6	-0.2121058	9.8238E-10
LINC02482	0.07859956	9.8535E-10
CLDND2	-0.1562057	9.90477E-10
VKORC1	-0.0199855	9.94095E-10
DYNC1LI2	-0.1093396	9.95593E-10
FBXO6	0.03687151	1.00066E-09
AL391684.1	0.04336894	1.00678E-09
VPS13A	0.10322127	1.01348E-09
SLC39A9	0.08946882	1.014E-09
PGBD1	0.03252068	1.02185E-09
AUTS2	-0.0320383	1.02825E-09
MARK3	-0.067709	1.04134E-09
TUBGCP2	-0.0659546	1.04641E-09
TXNDC11	-0.0550181	1.04928E-09
HSBP1L1	-0.0110527	1.06169E-09
FAM149B1	0.0169288	1.06627E-09
IGHMBP2	-0.0846903	1.07797E-09
MIR181A1HC	0.02373159	1.08017E-09
RBMS1	-0.1748591	1.08489E-09
CCNQ	-0.0892753	1.08675E-09
HSPA13	-0.0864262	1.0909E-09
HIST1H4J	0.07362882	1.09214E-09
UTP23	0.05398344	1.10011E-09
ASMTL	-0.1374843	1.10416E-09
MRPL38	0.03174347	1.10606E-09
AC020915.2	0.06180247	1.10607E-09
POLH	0.0815912	1.10627E-09
LMBR1L	-0.0725803	1.11667E-09
C12orf4	0.06365929	1.12028E-09
AP5M1	0.11313787	1.12598E-09
TRAF3IP1	0.1255342	1.13797E-09
CTSS	0.20302514	1.14467E-09
NF1	0.06891558	1.16194E-09
FANCM	0.07457493	1.16794E-09
MILR1	-0.0553486	1.16827E-09
JTB	0.14134158	1.1791E-09
OXSM	-0.0065259	1.18236E-09
PSIP1	-0.0076947	1.18557E-09
TM2D2	0.02086536	1.18902E-09

ZCCHC2	0.00160684	1.18906E-09
CPT2	0.02920377	1.19268E-09
PHYH	0.06289445	1.1953E-09
REXO5	0.06736576	1.19787E-09
AKIP1	-0.0056146	1.21387E-09
MANEA-DT	0.03418423	1.21461E-09
DIAPH1	-0.0512255	1.2175E-09
WDR6	-0.0065026	1.22512E-09
PPP1R3D	0.07032907	1.22887E-09
UHRF1BP1L	-0.0085893	1.23361E-09
SNX6	-0.0226314	1.24109E-09
IGF2BP2	-0.0994334	1.24522E-09
ZNF805	-0.0188163	1.25643E-09
WIPF2	-0.1118634	1.2589E-09
ABCF1	-0.0394096	1.2623E-09
MAN2B1	0.02579588	1.26741E-09
CU638689.4	0.0598661	1.27008E-09
AC015871.4	0.03879471	1.27533E-09
MVB12B	0.03123622	1.2777E-09
ATP6V1E1	0.03053189	1.28349E-09
LRRC34	0.06304064	1.2894E-09
NUDT16	0.05252704	1.29364E-09
TAF5L	-0.0492293	1.30231E-09
GALNS	0.00280541	1.30497E-09
LMAN2L	0.04856692	1.31672E-09
AC026979.2	-0.1826358	1.31825E-09
CREB3L4	0.09265113	1.31834E-09
TGOLN2	0.15548284	1.3191E-09
DNAJB9	-0.0282446	1.32775E-09
ZFP82	0.04761342	1.32988E-09
MUL1	-0.0611856	1.33345E-09
KRBOX4	0.01777024	1.33617E-09
TRGC1	-0.0174429	1.35376E-09
DTX2	-0.0049398	1.35714E-09
TUSC2	-0.0786283	1.36456E-09
PSMG3-AS1	0.03512154	1.3656E-09
PUS1	0.0663181	1.3732E-09
LSM7	-0.251323	1.37802E-09
GPR107	-0.070563	1.38398E-09
LRRC8C-DT	-0.026352	1.38429E-09
P2RX5	0.12987123	1.38945E-09
F8A1	0.06696622	1.40175E-09
CYC1	-0.0069155	1.40581E-09
MLC1	-0.0627082	1.41002E-09
SNX16	0.04303514	1.41048E-09
TLR6	0.0516216	1.41079E-09
MTRF1L	-0.136277	1.41087E-09
ROMO1	0.08807559	1.41746E-09
SPICE1	0.07870325	1.42391E-09
ARMC6	0.06119948	1.4245E-09

ZNF576	0.00732826	1.43819E-09
NVL	0.01982347	1.44803E-09
CCNI	-0.2573469	1.4534E-09
NEMP2	0.03948827	1.45512E-09
ZDHHC13	0.0704699	1.4589E-09
METTL6	0.03173981	1.45971E-09
UNC13D	-0.0301536	1.46532E-09
PXMP2	-0.0105348	1.46565E-09
SOCS4	0.11829211	1.47437E-09
AL158152.1	0.03837146	1.48073E-09
CASP10	-0.1477866	1.48157E-09
COMMD5	0.01494745	1.48695E-09
MTF1	-0.0289952	1.49174E-09
ZSWIM9	0.06202509	1.49636E-09
GSTCD	0.06718013	1.4979E-09
RDH11	0.035033	1.51415E-09
PKN1	-0.0046412	1.51699E-09
MYLPF	0.13395898	1.52213E-09
FBXL19	0.02530452	1.52551E-09
LYZ	0.42146657	1.53503E-09
NADK	-0.0235927	1.5551E-09
ZNF407	-0.0101193	1.55615E-09
AC027097.2	0.05765096	1.56472E-09
LMBR1	0.01062886	1.57728E-09
TESK1	-0.1047618	1.58192E-09
TMEM39A	-0.032728	1.58897E-09
ADAP1	0.03618518	1.58927E-09
ACP1	0.02264097	1.60373E-09
ILRUN	-0.0232727	1.61212E-09
CLIP1	0.04975404	1.6288E-09
TERF2IP	-0.1735479	1.64801E-09
CYB5R1	0.01507947	1.67141E-09
UBR4	0.02843932	1.67464E-09
DDX27	0.13075561	1.6771E-09
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PABPN1	-0.0855071	1.70127E-09
TACO1	-0.0854789	1.71117E-09
GATA2	0.46185512	1.71363E-09
CDK2AP1	0.02765946	1.71976E-09
RARS	0.07320605	1.74795E-09
INTS12	0.02058352	1.74929E-09
ZNF318	0.05879188	1.77287E-09
ANKRD36B	0.04243677	1.77728E-09
OSBPL2	0.02651574	1.77735E-09
GYPC	-0.2069752	1.77881E-09
MAPK8	-0.0936119	1.81761E-09
FLNA	0.04073369	1.82588E-09
GALM	0.08398307	1.82922E-09
ZNF8	0.07664964	1.83898E-09
MON2	0.04803008	1.84625E-09

LINC01857	0.07732926	1.84996E-09
DYNC1H1	-0.1270679	1.87065E-09
CEP250	0.0726881	1.87525E-09
ICA1	0.02155981	1.88124E-09
AC008105.3	-0.0510084	1.88768E-09
TRMU	-0.0099396	1.88792E-09
ORC5	0.0268323	1.88848E-09
AMACR	0.03219787	1.89818E-09
FUBP1	0.15704942	1.9302E-09
FAM104B	0.04983433	1.95667E-09
SNX4	-0.0725604	1.97629E-09
ZNF607	0.00907667	1.98472E-09
HDAC4	0.02397054	1.99409E-09
MECR	0.05708146	2.00426E-09
AL161457.2	0.05973695	2.01623E-09
ZNF16	0.04141775	2.02275E-09
VPS4B	0.06049853	2.02379E-09
DCLRE1C	0.00850487	2.04325E-09
RHPN1	-0.0549286	2.05543E-09
HIST1H3D	-0.1222862	2.05848E-09
TMEM185B	0.03849374	2.06021E-09
GPR135	0.06579383	2.06366E-09
NT5DC3	-0.1508852	2.07199E-09
AC073389.1	0.02885998	2.09967E-09
WDR60	0.13084768	2.10868E-09
SUPT3H	0.02060163	2.11396E-09
CFAP410	0.03207143	2.14721E-09
SLC17A9	-0.0318706	2.15272E-09
MMP19	-0.1793188	2.18485E-09
ORAI3	0.03215636	2.19866E-09
AEBP1	0.09210132	2.20606E-09
FNDC3B	0.12262283	2.21371E-09
PUSL1	-0.0084881	2.21581E-09
ACSL1	-0.017086	2.2171E-09
RXRβ	0.01131138	2.22667E-09
IL17RA	0.0656212	2.23058E-09
FAM215B	0.0160811	2.23502E-09
NOL4L	-0.0803801	2.23713E-09
STX18-AS1	0.06908349	2.25186E-09
TMEM39B	0.03128436	2.25629E-09
DNAJC3-DT	0.08884069	2.26639E-09
MDH2	-0.0074329	2.27211E-09
PROC	-0.1269695	2.28627E-09
AC024060.2	0.06764102	2.28889E-09
LPCAT3	-0.1264053	2.28906E-09
PGD	0.12375492	2.28945E-09
DCUN1D2	0.02361476	2.29258E-09
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COG1	-0.0413692	2.30711E-09
CCDC59	0.08730533	2.31021E-09

STYX	0.04719196	2.33456E-09
C20orf194	-0.0869285	2.34496E-09
NDUFB5	0.19426571	2.34754E-09
C8orf76	-0.1011918	2.35536E-09
SERPINA1	0.00926446	2.37282E-09
KANK2	-0.1416156	2.37725E-09
NUS1	-0.0073743	2.38774E-09
THAP1	-0.0151932	2.38947E-09
STK17A	0.00236219	2.40555E-09
NRDE2	0.10485363	2.42141E-09
ZNF430	-0.0583206	2.43143E-09
AC103769.1	0.03614611	2.43278E-09
ZHX1	0.06655301	2.4467E-09
RPL5	0.14507684	2.45298E-09
JMY	0.04801351	2.45884E-09
GGH	-0.0841198	2.46479E-09
DDHD2	0.02461641	2.47158E-09
OGFOD2	0.05065605	2.47487E-09
GPATCH1	0.08381661	2.49521E-09
LPIN2	-0.0858461	2.51169E-09
MARCH2	-0.0267804	2.52074E-09
EMC1	0.08842418	2.54574E-09
ATP1A1-AS1	0.07356619	2.56736E-09
SCFD2	0.05721422	2.56979E-09
MAGEH1	0.05256137	2.58479E-09
TMEM51	-0.0763939	2.59228E-09
HTT	0.01090295	2.6015E-09
AC002464.1	0.04390102	2.60626E-09
PALD1	0.0905863	2.62033E-09
NRF1	-0.0047203	2.66611E-09
C6orf47	-0.0885601	2.67427E-09
NDUFS3	0.04926956	2.67594E-09
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AATK	-0.1336601	2.69269E-09
AC008915.2	0.03596161	2.69721E-09
AC159540.2	0.07982343	2.69797E-09
GIPC1	-0.0040562	2.71066E-09
SETD6	0.05306447	2.7222E-09
DISC1	0.06197085	2.74082E-09
DHX29	-0.0191065	2.75846E-09
TRAF3IP3	0.02754032	2.75925E-09
SPTBN1	0.00067561	2.77105E-09
STK16	-0.0137487	2.77503E-09
SSH1	-0.0530014	2.7772E-09
REV1	-0.0262373	2.7835E-09
ZKSCAN4	0.04759285	2.8162E-09
FBXW4	-0.0201957	2.82001E-09
TXN2	-0.1023762	2.84418E-09
LINC02591	0.03105015	2.84646E-09
XRN2	0.16096848	2.86829E-09



PLAGL2	-0.0292745	2.88621E-09
PGAP2	0.03470984	2.88628E-09
APOL2	0.06401618	2.89067E-09
CSNK2A1	-0.0548048	2.89446E-09
RNF14	-0.0119343	2.89891E-09
DOT1L	-0.0874718	2.90781E-09
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DHX34	0.01427906	2.92663E-09
ZPR1	0.01323121	2.93371E-09
SLC25A17	0.04608768	2.93413E-09
ENTPD7	-0.0239977	2.94864E-09
MTERF4	0.16022993	2.99031E-09
DSE	-0.0240746	3.02139E-09
PCYOX1L	0.05675372	3.03223E-09
KLHL6	-0.0034649	3.04665E-09
PYCR1	0.05898014	3.05094E-09
TRAF3IP2	-0.0287853	3.0753E-09
IQGAP2	0.16161276	3.07611E-09
TTC33	0.02786985	3.08329E-09
LIMD2	-0.2450983	3.08494E-09
ZDHHC17	0.03423753	3.098E-09
VAR5	0.01010372	3.10212E-09
C11orf74	0.11456618	3.10646E-09
C7orf26	0.03626177	3.11087E-09
PIK3CG	-0.0326913	3.11481E-09
PIK3R2	0.06153145	3.12088E-09
CREBRF	-0.1998729	3.13519E-09
RMC1	-0.0416644	3.15305E-09
MAP2K6	0.05573166	3.16937E-09
TMEM234	-0.1198058	3.17482E-09
OPRL1	0.02729866	3.19547E-09
SATB1	0.12275212	3.19943E-09
TTL	-0.0158239	3.25511E-09
SSBP2	0.04703346	3.27064E-09
URGCP	0.03876734	3.29254E-09
PBRM1	0.10266664	3.30295E-09
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SVBP	-0.0657926	3.34582E-09
ABHD2	0.18646967	3.36003E-09
MORC3	-0.0267861	3.36212E-09
CC2D1A	-0.0022863	3.37101E-09
PDE6G	-0.0683541	3.39008E-09
HACD4	-0.01296	3.40079E-09
TBL2	-0.0897648	3.4047E-09
UBTD2	-0.0397656	3.4176E-09
RPS25	0.15695868	3.46378E-09
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POP4	-0.016571	3.49282E-09
PRKCI	0.00525937	3.50405E-09
AGAP9	0.03223829	3.55357E-09

B4GALT5	-0.049	3.55467E-09
PANK3	-0.006008	3.55903E-09
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PTRHD1	0.08291417	3.62801E-09
LRRC37A2	0.04880603	3.6601E-09
TMEM182	0.06350857	3.67332E-09
MED7	0.02656106	3.69683E-09
PFAS	0.05742409	3.70954E-09
RPL26	0.13452538	3.73613E-09
CHCHD1	-0.0420621	3.74891E-09
CNOT6L	0.03027436	3.74924E-09
ANKRD50	0.08122555	3.76377E-09
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BCL2L11	0.00122335	3.7683E-09
BBIP1	-0.0072184	3.77832E-09
AZI2	0.08496104	3.78232E-09
ITGA6-AS1	0.05664126	3.81747E-09
LPP	0.04106214	3.82252E-09
CCT7	0.16838356	3.85251E-09
CARM1	0.04857367	3.86453E-09
ITFG2-AS1	0.06361145	3.87044E-09
MAST4	-0.0459263	3.93994E-09
CLUH	0.02537334	3.95596E-09
C18orf21	-0.041673	3.9598E-09
AL049840.4	-0.0551215	3.9712E-09
ABCA7	0.03565122	3.97162E-09
RREB1	-0.0253515	3.98009E-09
TAF5	0.0294184	4.0085E-09
ANKS3	0.04635944	4.01223E-09
GALNT10	0.0368517	4.02491E-09
IFI35	-0.0666246	4.07863E-09
INPP5A	0.04687183	4.08983E-09
MPND	0.04922063	4.10048E-09
MMS19	0.00864729	4.10967E-09
AC108134.3	0.035493	4.13919E-09
ARMH3	-0.0399339	4.15914E-09
UTP11	-0.0360294	4.23232E-09
SBNO1	0.10104059	4.25553E-09
ANO10	0.00013577	4.28827E-09
ALDH18A1	0.06663336	4.29678E-09
CDK5RAP3	-0.0003852	4.34111E-09
ATP6AP1L	0.04632001	4.34976E-09
DEFB1	0.08728394	4.35128E-09
MOB1B	-0.1287161	4.35985E-09
SDCBP2-AS	0.05677649	4.36972E-09
ZNF280C	0.02506119	4.37484E-09
STX16	0.00546424	4.41531E-09
PICK1	-0.0174949	4.42013E-09
HDHD5	0.06400263	4.42687E-09
ICMT	0.03778561	4.45884E-09

ZSCAN9	-0.00383	4.48811E-09
RP9	0.01172345	4.51597E-09
SAV1	0.04194371	4.52436E-09
ZNF408	-0.03931	4.59517E-09
CCNB1IP1	0.10351497	4.62704E-09
CAPZA1	0.02998118	4.62732E-09
LYRM1	-0.0264388	4.63164E-09
ULK4	-0.147712	4.63925E-09
SWSAP1	0.06924603	4.64095E-09
PPARGC1B	0.08424898	4.64603E-09
VTA1	-0.031085	4.65514E-09
CIB1	-0.0439506	4.74478E-09
QPCTL	0.02870111	4.76186E-09
CCDC88B	-0.13296	4.82883E-09
TTC4	0.04761943	4.83562E-09
RNASEH1-A	0.0515903	4.8687E-09
GTF2IRD2B	0.07535223	4.86929E-09
PARPBP	0.01588557	4.8899E-09
SLC2A13	0.05571845	4.9587E-09
EIF4ENIF1	-0.0180425	4.96758E-09
ZNF10	-0.001368	4.99591E-09
ITGB2-AS1	-0.1108631	5.00163E-09
EP300	0.10280162	5.04664E-09
FAM199X	-0.008528	5.05511E-09
ZNF709	-0.0235377	5.05588E-09
WIPF1	0.09252991	5.05685E-09
SCLY	0.06169583	5.08693E-09
G6PC3	-0.1063423	5.11092E-09
PFDN2	-0.0887436	5.11498E-09
AKAP17A	-0.0638928	5.14253E-09
PIK3R4	-0.0623935	5.14881E-09
AC067930.8	0.04237605	5.20957E-09
AL133243.2	-0.0799157	5.2572E-09
ZSCAN21	0.0270575	5.29149E-09
HACE1	0.04628764	5.31201E-09
PGAM1	0.03951294	5.31313E-09
CCDC169	0.08756687	5.35799E-09
RBM25	-0.275985	5.36946E-09
PTBP3	-0.0456768	5.39498E-09
RAB5IF	0.14165712	5.44684E-09
SEC16A	0.0305817	5.46321E-09
XKR8	-0.0822471	5.47837E-09
PSMA2	-0.0877486	5.48639E-09
PDK1	0.02732759	5.51596E-09
CEP83	0.11520155	5.52113E-09
IFT80	-0.0017181	5.53949E-09
ZNF688	-0.0750824	5.55007E-09
PCBP2-OT1	0.04270907	5.57267E-09
C2orf76	0.03777037	5.58298E-09
ASH1L	0.05008754	5.59108E-09

RYK	0.07708728	5.60607E-09
CEP350	-0.0646016	5.63413E-09
MX2	0.05562712	5.65119E-09
Z93930.2	0.05184165	5.65351E-09
DDX19B	-0.0404284	5.70267E-09
STYXL1	0.04968189	5.73926E-09
IFI27L1	-0.0494016	5.76283E-09
FAM229B	-0.1073276	5.77438E-09
PHF11	0.13546708	5.7773E-09
GMEB1	-0.0845674	5.8174E-09
SBNO2	-0.0678978	5.89212E-09
TRMT44	0.05467356	5.92929E-09
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PPRC1	-0.0407905	5.94499E-09
TPK1	-0.0348986	6.03893E-09
PLD6	0.06335031	6.04094E-09
SLC25A12	-0.0276391	6.05307E-09
PPHLN1	-0.1270373	6.06633E-09
RBM45	0.06543422	6.1183E-09
PHF2	0.07657046	6.16822E-09
MINDY3	-0.0594077	6.25223E-09
ZNF615	0.03570935	6.25432E-09
DVL3	0.0786326	6.25532E-09
GBP2	-0.0734591	6.26377E-09
HOXB-AS3	-0.0255155	6.29941E-09
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ABHD12	0.01565502	6.38475E-09
ERAL1	0.02614154	6.42669E-09
IGLL1	0.24432888	6.46217E-09
ABCC1	0.06794285	6.57244E-09
RCL1	0.01337525	6.63365E-09
DGCR8	0.01547505	6.64404E-09
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TTC19	0.14240476	6.67063E-09
AXIN1	0.00806783	6.70355E-09
ZC3HC1	-0.0335046	6.73446E-09
U2AF1L4	-0.0268594	6.75173E-09
SLC5A6	0.04461305	6.75988E-09
TLR9	-0.0762323	6.76059E-09
MIS12	0.03766785	6.78366E-09
CLEC16A	0.06136945	6.8E-09
TBC1D22A	0.05146458	6.89897E-09
TRAPPC6B	0.0053904	6.90201E-09
ZNF250	0.00872896	6.94253E-09
ARHGAP23	-0.1368461	6.95304E-09
EML2	0.02882927	6.96755E-09
EIF3C	0.06099674	7.01364E-09
GOSR2	-0.0066398	7.01747E-09
FBXO30	-0.1192435	7.04525E-09
PARK7	0.14126032	7.04642E-09

CTSH	0.14542314	7.091E-09
SEPHS1	0.03331596	7.12537E-09
RNF170	0.01436979	7.1612E-09
PYCARD	-0.189234	7.25268E-09
MTERF3	-0.0122584	7.26573E-09
PSME3	0.00988321	7.30187E-09
RPS6KB1	-0.053406	7.34136E-09
DDIT3	-0.2462179	7.36195E-09
WHAMM	-0.0259818	7.40019E-09
APOBEC3D	0.04893643	7.41359E-09
CKMT2-AS1	0.07453854	7.42092E-09
CMTM7	-0.0352384	7.44953E-09
MIATNB	0.05879871	7.48033E-09
ATP5MC1	0.07804349	7.48897E-09
NLRC3	-0.1405595	7.54234E-09
NOTCH2NL	0.04742587	7.56279E-09
HIST1H1B	-0.1581569	7.63291E-09
MIER2	-0.0579944	7.63985E-09
SOCS1	-0.2128901	7.64365E-09
SLC16A5	-0.0220703	7.67615E-09
STARD9	0.0994421	7.72168E-09
CHFR	-0.0009221	7.73686E-09
MFSD8	-0.0145505	7.73711E-09
MFSD11	-0.0096486	7.76764E-09
TRAK1	-0.0676118	7.82375E-09
LINC00641	0.0750522	7.85047E-09
DDI2	-0.0831925	7.85717E-09
AC136944.2	0.05074645	7.87158E-09
PLEKHO1	-0.2503397	7.89425E-09
SEC31B	0.04459022	7.89953E-09
CANX	0.22092413	7.9135E-09
AL138724.1	-0.0482385	7.91427E-09
FOXRED2	0.05036128	7.92464E-09
CIAPIN1	-0.0077033	7.93928E-09
OSER1-DT	0.03711914	7.96312E-09
IFRD1	-0.0736266	7.97692E-09
UBE4A	0.04210946	8.02296E-09
DLAT	0.03181493	8.02528E-09
Z97192.1	0.0528377	8.03413E-09
CCDC130	-0.0571755	8.0599E-09
TAF13	-0.0316345	8.10124E-09
SUGP1	0.04967558	8.1823E-09
MICOS13	0.17521623	8.20938E-09
ORAI2	0.25487773	8.2885E-09
PUS10	0.03335432	8.35787E-09
BAX	0.14176949	8.39896E-09
FEN1	-0.0522028	8.43455E-09
CCAR1	-0.1088242	8.46559E-09
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C10orf95	0.07450029	8.47865E-09

TNFAIP8L2	-0.019801	8.50167E-09
SLFN12	0.06739298	8.54314E-09
VCPIP1	0.0127223	8.55926E-09
CALCOCO2	-0.0640653	8.56953E-09
EFL1	0.06943124	8.5707E-09
PIK3R1	-0.13636	8.72888E-09
RELCH	-0.0120073	8.74454E-09
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GPM6B	0.0367376	8.8238E-09
GTF2A1	0.07925119	8.84144E-09
CCT3	0.16894637	8.90619E-09
IL15RA	-0.0136201	8.91252E-09
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CHUK	0.0123323	8.9496E-09
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PTTG1	-0.0406935	9.12936E-09
WDR59	0.02412013	9.34511E-09
MRPS36	0.10816051	9.39101E-09
MAP3K13	-0.044204	9.49416E-09
MICAL3	0.03886821	9.50458E-09
SAAL1	0.02808499	9.54859E-09
CDC23	0.01524199	9.56848E-09
PLXNA3	-0.1854005	9.58162E-09
HEXD-IT1	0.03458249	9.59623E-09
MRM2	-0.0213797	9.64691E-09
MED9	-0.0548521	9.69802E-09
MFN2	-0.0073792	9.74585E-09
ZNF516	-0.1237394	9.76787E-09
MRI1	0.08484153	9.7999E-09
FARS2	-0.0264561	9.82172E-09
SLC29A3	0.03295573	9.88386E-09
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FAM160A2	-0.0370435	1.00084E-08
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HLA-F-AS1	0.03975267	1.00629E-08
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MED23	-0.0300663	1.02367E-08
ZNF568	0.07249971	1.04249E-08
RCAN1	0.0450763	1.05361E-08
AL589863.1	0.05358218	1.05944E-08
RNF103	-0.1027882	1.06171E-08
MATK	0.05833341	1.06237E-08
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COPG2	0.08917126	1.0847E-08
TBC1D23	-0.0588853	1.09117E-08
SMURF2	-0.0549192	1.09147E-08
SYNGR1	-0.1573815	1.1029E-08

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CHSY1	0.09762966	1.11083E-08
GOT1	-0.0271326	1.11492E-08
STK19	-0.1095297	1.11703E-08
ABHD14B	-0.0247701	1.1235E-08
GFPT1	-0.0540739	1.1276E-08
UBIAD1	0.04567412	1.12935E-08
ZC3H10	0.04263923	1.13831E-08
LACTB2	0.09724008	1.13929E-08
JRK	0.0951225	1.13932E-08
PTPN12	-0.0278029	1.13941E-08
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WDR54	-0.149816	1.15041E-08
DBR1	0.02519404	1.1547E-08
FGFR1OP	0.03390641	1.15533E-08
USP27X	-0.1205699	1.16297E-08
AGPAT1	0.02883451	1.16798E-08
DHX16	-0.0114041	1.16838E-08
EDC3	-0.0457528	1.16877E-08
GTPBP3	0.0710595	1.16991E-08
EIF3D	-0.1971914	1.17047E-08
PCBD1	-0.0687776	1.18185E-08
RPGRIP1L	0.05608093	1.18532E-08
AOAH	0.04042427	1.18703E-08
MAN2A1	-0.0326319	1.18707E-08
TSC22D2	0.01250064	1.19745E-08
DNAJB2	-0.0176975	1.20444E-08
ZNF500	0.03757098	1.20572E-08
KTN1-AS1	0.04787753	1.20799E-08
CCDC47	0.03720876	1.22075E-08
TBL3	0.04369489	1.23004E-08
SIGLEC6	0.09278692	1.23334E-08
ABCB10	0.06192029	1.23404E-08
ISG20L2	0.09688776	1.23415E-08
CASP9	0.01851519	1.25115E-08
CNOT4	0.03514203	1.25492E-08
ANKRD52	0.01232894	1.26553E-08
FAIM	0.07354858	1.27584E-08
AC064807.1	0.03592381	1.27933E-08
SIRT1	-0.0410679	1.27971E-08
NONO	0.04075932	1.29439E-08
CRYGD	0.04126348	1.3043E-08
SETD9	0.04883236	1.305E-08
PDE6B	0.07039065	1.3062E-08
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MICU2	0.06309258	1.32955E-08
KIF27	0.08840428	1.33157E-08
AC096992.2	0.04475131	1.333E-08
TBC1D24	0.06541641	1.34144E-08
LMNB2	-0.044137	1.34236E-08

TAP2	0.03617045	1.34722E-08
BNIP1	-0.0775462	1.34815E-08
MSN	-0.250401	1.35625E-08
TOGARAM1	-0.1041464	1.36049E-08
ZNF782	0.05838722	1.36138E-08
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MYD88	0.00808296	1.36491E-08
PEX14	-0.0228026	1.36926E-08
AK3	0.05403502	1.37131E-08
APLF	0.02463	1.3796E-08
SLC9B2	0.05811337	1.38035E-08
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MTHFD2	-0.1446731	1.38828E-08
LONP1	0.03510862	1.40242E-08
ADAMTS6	0.06585877	1.40824E-08
BRI3	0.23409113	1.40975E-08
UTRN	0.02426476	1.41018E-08
JAK2	0.07097725	1.41641E-08
SLMAP	-0.1434846	1.41733E-08
INSIG1	-0.2123325	1.4238E-08
AC004889.1	-0.0385562	1.42429E-08
XRCC4	0.08645546	1.42611E-08
CCDC93	-0.0580565	1.42782E-08
CA2	0.12024108	1.43463E-08
AC009961.4	0.0079576	1.43787E-08
CDK8	0.05892553	1.45539E-08
SPG7	0.00886438	1.46274E-08
TIGAR	0.00496719	1.47022E-08
YWHAB	0.22522606	1.4714E-08
PHC1	-0.0302968	1.48722E-08
STX6	0.00012492	1.49122E-08
POLL	0.01862677	1.49469E-08
JADE1	0.07050069	1.49629E-08
FKBP14	0.0771373	1.50309E-08
ANKZF1	0.02197961	1.50444E-08
AL080317.2	0.06958599	1.50755E-08
PSMD4	0.13654607	1.51392E-08
SMG8	0.04615172	1.53408E-08
PRKAR2A	-0.0573988	1.54098E-08
ERI1	-0.0426056	1.54405E-08
PRELID1	-0.2421798	1.54512E-08
RIPK1	0.00496297	1.54675E-08
MTMR10	-0.0726787	1.56928E-08
CEP295	0.07409439	1.56985E-08
WDR5B	0.08476011	1.58052E-08
ZNF254	-0.0141815	1.60055E-08
ITGA3	-0.0852296	1.60352E-08
RDH5	0.03513782	1.60565E-08
ATF5	-0.1204906	1.60964E-08
AL592435.1	0.03507348	1.61605E-08



ZNF780A	0.0549496	1.62604E-08
RABL3	-0.0911605	1.63952E-08
DAB2	0.08585822	1.64768E-08
DAZAP1	-0.0447632	1.65709E-08
DAGLB	-0.0550907	1.65919E-08
ARMH1	-0.0605536	1.66562E-08
AP000845.1	0.02689812	1.67365E-08
KRI1	0.00454144	1.68268E-08
GLMP	0.03266295	1.71148E-08
EXOSC1	-0.0315087	1.71255E-08
ERG	0.16198772	1.73079E-08
RSKR	0.05637949	1.73758E-08
SLC9A6	-0.0154348	1.76491E-08
AGPAT3	0.03235038	1.76708E-08
CCDC121	0.04713696	1.77287E-08
ATG13	-0.0367473	1.78528E-08
TLK1	0.06059417	1.78906E-08
TBC1D17	0.07376768	1.80375E-08
ULK3	-0.0466959	1.80966E-08
AMD1	-0.1700649	1.82569E-08
MCPH1-AS1	0.04188431	1.84018E-08
REV3L	-0.1152182	1.84778E-08
SCRIB	0.01781414	1.84793E-08
PTRH1	-0.0466567	1.85766E-08
DNAJC2	-0.0139551	1.87039E-08
NADSYN1	0.05477731	1.88078E-08
AC120053.1	0.08283088	1.8825E-08
SLTM	0.28614699	1.89171E-08
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EIF4G1	0.08886405	1.92257E-08
ZC3HAV1	-0.1267502	1.94147E-08
TNS3	-0.1011901	1.95215E-08
UQCRH	0.16431135	1.9545E-08
PLEK	-0.2585944	1.95472E-08
PILRB	0.01908632	1.9625E-08
AL353807.5	0.05487095	1.96581E-08
ZDHHC6	0.00061825	2.00584E-08
TRIM14	0.04777058	2.0074E-08
MZF1	0.02991674	2.01209E-08
ARHGAP18	0.03044951	2.01889E-08
IWS1	-0.0394326	2.02699E-08
C7orf31	0.04522828	2.02838E-08
DLGAP1-AS	-0.0522956	2.03068E-08
COMMD3	0.09556524	2.06055E-08
IRS2	-0.0088647	2.06057E-08
FAHD1	0.04670058	2.09814E-08
SPART-AS1	0.0521266	2.10614E-08
STON2	-0.102122	2.11492E-08
DHX30	0.02648722	2.11543E-08
PLA2G15	-0.1169179	2.13163E-08

TBCC	0.08758257	2.13538E-08
FAM120B	0.04413838	2.15229E-08
SYTL2	0.05562829	2.16519E-08
XYLT2	0.04885343	2.16608E-08
MAGED2	-0.0098573	2.17688E-08
KDM4A-AS1	0.06419688	2.18239E-08
FGFBP3	0.02622832	2.18565E-08
TIMM21	0.07298605	2.18774E-08
WDR49	-0.1345466	2.19435E-08
MPP1	0.1526182	2.20372E-08
EXOSC4	-0.0130328	2.21726E-08
ABCE1	0.12930531	2.24262E-08
TANGO2	0.00156752	2.26539E-08
GADD45A	-0.0670042	2.28826E-08
UBE4B	0.06885207	2.29197E-08
C5orf30	-0.0581586	2.2969E-08
TFDP2	0.06884708	2.32169E-08
DPP8	-0.017103	2.3251E-08
MPI	0.03806135	2.33014E-08
ZBTB4	-0.0645967	2.33191E-08
CUL2	-0.0466442	2.33216E-08
AC016727.1	0.01672067	2.33629E-08
RELA-DT	0.03361594	2.35316E-08
CHD9	0.12511414	2.356E-08
DNAL4	-0.0548425	2.36237E-08
GTPBP1	-0.0747811	2.37684E-08
MAPK3	-0.0717606	2.37957E-08
ALG1	0.0414322	2.37996E-08
LINC02035	0.03677105	2.38151E-08
RAB4A	0.05633876	2.38708E-08
CCDC51	-0.0091238	2.39862E-08
SYS1	-0.0355754	2.41202E-08
GOLGA2	-0.0111088	2.42193E-08
ARFIP1	0.04461138	2.44332E-08
SPPL2B	-0.0736321	2.44459E-08
JAG1	-0.1281558	2.45323E-08
DECR1	-0.0387713	2.46889E-08
SPI1	-0.1611108	2.4741E-08
ZFP91	-0.0835233	2.47899E-08
PWP1	0.02578225	2.48114E-08
DDT	-0.2016472	2.48633E-08
TMEM205	-0.1710406	2.5027E-08
KCTD5	0.00101068	2.50564E-08
CPSF1	0.04348934	2.50726E-08
CLN3	0.01948496	2.51328E-08
GK5	0.11563059	2.51493E-08
BTN3A3	0.05555376	2.53454E-08
UNK	-0.0517443	2.56999E-08
PCGF6	0.06462398	2.57559E-08
HOXA10	0.11360561	2.58747E-08

WDR55	-0.0183147	2.59822E-08
HMCE5	-0.1197087	2.61993E-08
ASB7	-0.0198472	2.62019E-08
ASNSD1	0.06459293	2.62369E-08
A1BG-AS1	-0.0335517	2.63615E-08
CALHM6	0.2174475	2.64414E-08
ADHFE1	0.05090423	2.65192E-08
ENC1	0.04840255	2.65646E-08
RNASET2	-0.1323929	2.66071E-08
ZNF316	-0.0478191	2.66311E-08
PELO	-0.0498331	2.66465E-08
PIP5K1C	-0.0133721	2.66835E-08
TRMT11	0.01977522	2.67514E-08
AC055822.1	0.05030585	2.68001E-08
EEF2KMT	0.07918785	2.68302E-08
RAVER2	0.04303441	2.68656E-08
GTF2H4	-0.0074441	2.68783E-08
EXOG	0.04539018	2.71483E-08
ZNF283	0.05163464	2.72389E-08
PKIG	0.0291612	2.73162E-08
ZMYM5	-0.0790351	2.7337E-08
RAD21	-0.1076211	2.73498E-08
CIAO3	-0.0034905	2.74549E-08
C21orf58	0.09891457	2.75043E-08
FGD3	0.01774476	2.76058E-08
CATSPERG	0.07534752	2.76096E-08
RFC3	0.00475131	2.76368E-08
AHRR	0.05579528	2.76669E-08
CREBL2	0.01978095	2.7738E-08
CARS	-0.1350298	2.77536E-08
MIR99AHG	0.07363423	2.77615E-08
AKAP10	0.05280075	2.77927E-08
FOXP1-IT1	0.00592427	2.79018E-08
DDX51	0.0729799	2.80257E-08
HERC5	0.04863021	2.80546E-08
RAD1	0.00171397	2.82124E-08
COMTD1	-0.1051261	2.82975E-08
HCK	-0.0364384	2.8871E-08
DANCR	0.14377591	2.903E-08
MSH6	-0.0261566	2.91425E-08
GIMAP6	-0.1394484	2.92499E-08
ABI3	-0.1042179	2.92747E-08
LINC01678	0.07926203	2.92872E-08
MAP4K3	-0.0286544	2.93732E-08
IRGQ	-0.1080085	2.94171E-08
COX10	0.00869285	2.9638E-08
MAFG	0.00256366	2.96454E-08
ZFH2-AS1	0.01730339	2.97247E-08
AC092821.3	0.03439399	2.98839E-08
MYO19	0.03182484	2.99605E-08

VGLL4	-0.1421311	3.00089E-08
ZNF451	-0.0429841	3.0241E-08
NUDT2	0.02741792	3.0359E-08
SNW1	-0.1618097	3.03854E-08
MED28	0.08356549	3.06306E-08
OXSRI	-0.0429929	3.06805E-08
DUS3L	-0.0396375	3.11585E-08
INPP4B	0.11299219	3.11697E-08
FAM221A	0.06318918	3.1675E-08
NDUFA2	0.16809465	3.19822E-08
EIPR1	0.04569058	3.20566E-08
FEZ2	-0.0166081	3.23087E-08
BDP1	-0.0126487	3.23497E-08
BBC3	-0.1208199	3.24236E-08
DPH6	0.05142752	3.2743E-08
OGT	-0.1531346	3.27703E-08
UBE2D4	0.06219294	3.31896E-08
TCF20	0.05768605	3.33935E-08
FAM3A	-0.0337834	3.37389E-08
UFL1	-0.0907933	3.40471E-08
DEPDC5	0.05756156	3.431E-08
ZC3H3	-0.018561	3.43226E-08
AP006621.3	0.038414	3.44387E-08
TOMM34	-0.0245346	3.46017E-08
IGBP1	-0.0217877	3.46133E-08
NCOR1	0.12610159	3.47148E-08
HNRNPA3	-0.2648412	3.49689E-08
MTO1	0.05317936	3.49922E-08
SLC35A5	0.04174753	3.51696E-08
CSNK1G1	-0.0745712	3.56078E-08
ARL14EP	0.07264976	3.57961E-08
UFM1	0.11956708	3.60159E-08
CABLES1	0.06993711	3.62305E-08
PHLPP1	0.00054605	3.64324E-08
MED25	-0.1561471	3.64348E-08
POU2F1	-0.0935796	3.64769E-08
CNNM2	0.0751271	3.68346E-08
LINC02384	-0.0780248	3.68844E-08
IGFBP7	0.10146882	3.71284E-08
NDUFB7	-0.0039054	3.71504E-08
TBRG1	0.01289849	3.71927E-08
RAB21	-0.0757731	3.72645E-08
CENPF	0.06286579	3.7792E-08
UQCRC2	0.04318682	3.79093E-08
RPTOR	0.02195741	3.80242E-08
DES1	-0.015273	3.81214E-08
TMEM243	-0.0460253	3.83832E-08
RAC2	-0.2331062	3.90688E-08
RHBDD3	0.01870038	4.01206E-08
AMMECR1L	-0.039452	4.03668E-08

AL590764.1	0.02360281	4.05821E-08
TOMM40L	-0.0666719	4.05967E-08
B4GALT4	0.00348608	4.06044E-08
SLC25A20	0.05339332	4.1014E-08
MRPS21	0.13845173	4.11078E-08
STAG1	0.08550788	4.11714E-08
NEDD4	0.0515436	4.12423E-08
SMAD2	-0.0097524	4.14672E-08
CARMIL2	-0.0117389	4.1492E-08
CIPC	0.01101032	4.18496E-08
GALK2	0.11480003	4.23272E-08
ABCA5	0.06038467	4.25697E-08
CCSER2	-0.0059524	4.31941E-08
MEIS1-AS2	-0.042807	4.36944E-08
AMFR	0.00188335	4.39172E-08
SMAD6	0.04803529	4.39872E-08
USP37	-0.0633457	4.39876E-08
ZNF134	0.00408583	4.41371E-08
SNHG12	0.10755098	4.41859E-08
TGDS	0.00877269	4.42868E-08
PLXND1	0.04201737	4.44939E-08
CBY1	-0.0579495	4.47998E-08
TMEM214	0.02513911	4.49941E-08
PGK1	-0.2019455	4.54838E-08
MIR155HG	-0.0093244	4.6421E-08
MLLT10	0.1056644	4.65516E-08
TRIM68	0.05137465	4.66769E-08
SREBF2	0.00420351	4.67053E-08
AL645568.1	0.03881101	4.67393E-08
PHB2	-0.1267104	4.69821E-08
ARL8B	-0.0441999	4.71075E-08
ENTPD5	0.04635711	4.72632E-08
HUS1	-0.0126676	4.73434E-08
AC010623.1	0.02477397	4.73664E-08
SNX14	0.04181321	4.85509E-08
EIF5A	-0.1722358	4.87818E-08
PPARA	0.04323382	4.9164E-08
ZBTB34	-0.0728491	4.96668E-08
MDM4	0.1358191	4.97116E-08
ZNF496	0.03550976	4.98848E-08
MED11	0.01479263	4.98878E-08
NBN	0.0171145	5.03357E-08
PHOSPHO2	-0.0144924	5.05873E-08
TIMM22	-0.0717791	5.10221E-08
ODF2	0.0571239	5.10355E-08
DDX58	0.0888529	5.13423E-08
PHF20L1	0.02383434	5.14481E-08
FAM200A	0.03543611	5.20063E-08
RFX1	-0.0904127	5.2482E-08
MRPL20-AS	-0.0411326	5.28571E-08

IRF8	-0.2401729	5.32754E-08
LINC02352	0.06494515	5.33229E-08
INPP5F	-0.0256772	5.45387E-08
B3GALT4	-0.1535138	5.45427E-08
ZNF420	0.03016515	5.45808E-08
NMNAT1	0.04644429	5.49085E-08
XRCC5	0.19229449	5.49526E-08
ATP13A1	0.0038676	5.52201E-08
PPIP5K1	0.06871399	5.53574E-08
TXNL4A	-0.0025869	5.53976E-08
KAT2A	-0.0102567	5.54197E-08
TXNL1	-0.0123415	5.55272E-08
BCL9L	-0.0936688	5.56172E-08
KANSL3	-0.0946907	5.56213E-08
SEC11C	-0.0255063	5.56234E-08
SOCS2	0.05015496	5.62316E-08
KLHL11	0.03886073	5.63901E-08
NGLY1	0.03610875	5.77369E-08
SMG1	0.20448112	5.78633E-08
SCYL3	0.03048723	5.79098E-08
ST7L	0.06857667	5.82259E-08
ZMYM2	0.06657936	5.8394E-08
TMEM44-AS	0.02745629	5.86444E-08
E2F5	-0.0447551	5.87241E-08
TMEM181	0.04955318	5.93079E-08
SLC27A1	0.01566302	5.93216E-08
AC135050.6	-0.0009925	5.96864E-08
EPB41L2	0.09896255	5.97714E-08
LRRC42	-0.1004598	5.99491E-08
VEGFA	-0.1304275	6.00655E-08
PIP5K1B	0.0511682	6.044E-08
ARAP1	0.0530799	6.06461E-08
IRF7	-0.0358769	6.09242E-08
IQCG	0.01565594	6.13359E-08
HIRA	0.03076813	6.13751E-08
DDX24	-0.1890944	6.23377E-08
GTF2E1	-0.0445435	6.24708E-08
SLC15A4	-0.1003948	6.29412E-08
DHRS12	-0.0705675	6.30536E-08
CASP4	0.20761657	6.30894E-08
BCORL1	0.01977078	6.32527E-08
AFG1L	0.04916114	6.34235E-08
CASP6	0.16115441	6.34438E-08
SFXN2	0.05646098	6.36975E-08
KCTD6	-0.0526242	6.37039E-08
ZFAND3	0.04967646	6.50624E-08
AC124248.1	0.0716488	6.50993E-08
AL360012.1	0.03475592	6.52663E-08
CRAMP1	0.04448312	6.53593E-08
MUTYH	0.00247185	6.59785E-08

DACH1	0.07826472	6.61389E-08
KIF1B	-0.1020623	6.64129E-08
CNTLN	0.05008287	6.67843E-08
WDR25	0.02429937	6.70655E-08
AL353622.1	0.04671063	6.73378E-08
CDIP1	-0.0107908	6.73567E-08
NDUFB8	-0.1510803	6.75719E-08
PPP1R3F	-0.0076903	6.78634E-08
PTPN23	0.0103371	6.87415E-08
PRKRA	-0.0115233	6.89466E-08
ZRSR2	0.04642826	6.89698E-08
THOP1	-0.0413016	6.90925E-08
SLFN11	0.07756231	6.93566E-08
ARAP2	0.01146758	6.94732E-08
SS18L1	-0.0106223	6.96681E-08
ABO	0.10645116	6.98703E-08
COQ10A	0.05102424	7.00163E-08
TRIM16	0.06187572	7.10861E-08
MTMR3	0.01875334	7.11774E-08
SLC25A24	-0.0186286	7.1259E-08
CALCRL	-0.2265355	7.18736E-08
CERS6	0.06308085	7.23357E-08
PPP3CC	-0.0873331	7.23602E-08
STAT5B	0.06017886	7.27271E-08
ATAT1	0.01054483	7.37441E-08
RNF139	-0.0239185	7.46062E-08
ZBTB8A	-0.1921626	7.47491E-08
BCDIN3D	0.03396839	7.5518E-08
ZNF140	-0.0340025	7.71479E-08
BRK1	-0.2148994	7.76065E-08
DRAM1	-0.0827957	7.76073E-08
CISH	-0.0908626	7.78766E-08
DNAJC14	0.0250532	7.82134E-08
NCEH1	0.04559732	7.8907E-08
CDV3	0.17402107	7.98079E-08
SRRD	-0.0037511	8.01678E-08
AL049840.2	-0.0747658	8.02486E-08
REXO1	-0.0864068	8.03982E-08
PRADC1	0.03596321	8.0481E-08
NDUFAF7	0.04910252	8.07541E-08
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C6orf136	-0.0182912	8.20317E-08
TPT1	0.13079169	8.24744E-08
FRS2	-0.0097916	8.2704E-08
ATL3	0.04231638	8.28636E-08
DAPP1	-0.1465515	8.29764E-08
MTFMT	0.05379045	8.33819E-08
ZNF836	-0.025868	8.38685E-08
WBP4	-0.1273605	8.3942E-08
HIP1	-0.1631541	8.41594E-08

CMTR2	0.00355992	8.42528E-08
TMF1	-0.1026566	8.44587E-08
SKIV2L	0.01073426	8.46776E-08
SNX12	-0.004605	8.50052E-08
UNC119B	-0.0546313	8.51309E-08
MAP2K1	0.01094351	8.59495E-08
GGCX	0.07318337	8.59879E-08
LIN37	-0.0491227	8.64487E-08
E4F1	-0.0675691	8.68652E-08
PRIM1	0.01930856	8.77898E-08
ATAD5	0.06152062	8.81155E-08
ZNF595	0.03083825	8.85119E-08
MTHFD2L	0.01220634	8.88666E-08
AC007406.5	0.05355808	8.88869E-08
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CPEB4	0.09584015	9.1217E-08
CTNNA1	0.07234779	9.22612E-08
DENND1C	0.00376772	9.23913E-08
ARHGAP32	0.05359377	9.25822E-08
METR1	0.05828417	9.31388E-08
RNF208	0.0447359	9.32047E-08
ZNF131	0.03580292	9.36098E-08
NOP16	0.11402067	9.38975E-08
CNDP2	-0.0590662	9.42168E-08
IL3RA	0.08020842	9.43346E-08
AC110769.2	0.03827759	9.47014E-08
NOMO3	0.01719491	9.50552E-08
PSME4	-0.1354615	9.51002E-08
STARD4	-0.0193152	9.52755E-08
MAP3K20	-0.0163657	9.5643E-08
HOXB6	-0.0700508	9.60383E-08
TCTEX1D2	-0.0038627	9.63373E-08
AC093627.5	0.0527525	9.65321E-08
TRMT112	0.11164629	9.81785E-08
ZNF445	0.11024279	9.87356E-08
C1RL-AS1	-0.0132192	9.96233E-08
FAM168A	-0.0097979	9.99573E-08
MARCH8	-0.0674878	1.00054E-07
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PAQR6	-0.0189905	1.01836E-07
UAP1L1	0.01846268	1.03481E-07
KSR1	-0.1495875	1.03925E-07
RGS10	0.2760998	1.04064E-07
FDFT1	-0.0470128	1.04961E-07
ZNF330	-0.00636	1.05182E-07
RPUSD1	0.05654684	1.05434E-07
DAD1	0.05173359	1.05965E-07
GPR160	0.05358523	1.06859E-07



PRPF3	0.07307304	1.07586E-07
TADA1	0.01758558	1.07634E-07
ZDHHC12	-0.0372031	1.07732E-07
MMUT	0.02229249	1.08134E-07
BST1	-0.0912529	1.08241E-07
MAU2	0.04894492	1.08526E-07
DIS3L2	0.00572265	1.08582E-07
AC124016.2	0.04362203	1.09351E-07
SRD5A3	0.15847473	1.09703E-07
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PLSCR3	0.00111943	1.10634E-07
STBD1	-0.0962271	1.1116E-07
SCYL2	0.00214479	1.11693E-07
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DPH3	-0.0638605	1.13599E-07
WARS2	-0.0329621	1.14444E-07
B4GALT3	-0.0697049	1.1486E-07
HSD17B11	0.15610913	1.14898E-07
TRMO	-0.0410071	1.1492E-07
ABHD15	-0.0282067	1.15942E-07
MMS22L	0.09593494	1.16505E-07
NOP9	0.00333724	1.17023E-07
TP53BP1	0.13210933	1.17307E-07
AC008875.3	-0.027038	1.17453E-07
BTG3	-0.0774409	1.18306E-07
RNASEH2C	0.05792523	1.18473E-07
BSG	-0.0328632	1.19647E-07
HS1BP3	-0.0429449	1.19866E-07
UQCRQ	0.16683637	1.20364E-07
INO80E	0.00725755	1.20417E-07
THRIL	0.03879299	1.20677E-07
KLHL42	0.04050112	1.20679E-07
CCT8	0.13781266	1.21197E-07
WAS	0.00541622	1.21238E-07
RBMX2	0.04482436	1.2143E-07
LAPTM4A	0.00654336	1.22455E-07
KIAA1841	-0.1255669	1.22569E-07
AC007336.1	0.08319649	1.23159E-07
SLC22A5	0.03688168	1.23168E-07
FCHO2	0.0290637	1.23964E-07
RETSAT	0.02313401	1.25072E-07
METTL26	-0.0240739	1.25258E-07
GMDS	-0.0101252	1.25286E-07
BSCL2	0.00706357	1.26009E-07
TMEM187	0.02707061	1.26487E-07
FASN	0.07099633	1.26627E-07
TTI2	0.01944741	1.26736E-07
TOM1	-0.0161633	1.27159E-07
PIK3R6	-0.0240894	1.27758E-07

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EBLN2	-0.021202	1.28435E-07
CRY2	-0.0468967	1.28642E-07
AC018521.5	-0.0227322	1.29546E-07
KHDC4	0.1030954	1.29766E-07
ZNF398	-0.0201555	1.31038E-07
ALDH16A1	-0.0530119	1.31536E-07
ICK	0.0651811	1.31545E-07
STRN	0.00793272	1.31758E-07
GMEB2	-0.1137349	1.31829E-07
THG1L	0.02713254	1.32581E-07
RPS6KA3	-0.0180213	1.33216E-07
APC	-0.0922743	1.33385E-07
IFI30	-0.1993573	1.33445E-07
PI4K2B	-0.050691	1.33764E-07
PHGDH	-0.1344594	1.33812E-07
KLHL28	-0.0834825	1.34078E-07
NMRK1	0.03246923	1.35834E-07
AL031595.2	0.03800854	1.36172E-07
TMEM14A	0.04269389	1.37324E-07
AC087473.1	0.06083637	1.39431E-07
RBM7	-0.0279075	1.40107E-07
CEP19	0.04970279	1.40333E-07
WARS	-0.0940334	1.41183E-07
LRR1	0.0202345	1.42123E-07
ASCC3	0.04986311	1.42168E-07
ZNF107	0.10084389	1.42761E-07
UTP25	0.07228731	1.43244E-07
FBF1	0.01721076	1.43685E-07
STK35	-0.0799667	1.43845E-07
CLASRP	-0.0056328	1.44627E-07
CD79A	-0.1076138	1.44951E-07
ENY2	-0.0891965	1.45489E-07
MED14	0.01029205	1.46263E-07
ARL6IP5	0.23409071	1.47419E-07
RFX3	0.04944445	1.48055E-07
AL590652.1	0.04750319	1.49319E-07
SNX11	0.01614629	1.51612E-07
TRAK2	0.01745711	1.52608E-07
DENR	0.1470734	1.52962E-07
AKAP9	0.38039752	1.53079E-07
DDHD1	-0.0531475	1.53473E-07
SNX24	0.03946531	1.54281E-07
RAB13	-0.0843711	1.5441E-07
IKZF5	-0.053122	1.55673E-07
ATRIP	0.02137036	1.56332E-07
AGAP2	-0.0534631	1.57369E-07
SPCS2	0.02996015	1.57581E-07
AL451085.2	0.01039663	1.60516E-07
GCLM	0.03404837	1.60994E-07

NORAD	0.1251643	1.63697E-07
PCCA	0.0326307	1.6411E-07
ZNF284	0.04770568	1.64887E-07
NEK3	0.02058122	1.65034E-07
PDE1B	0.01508109	1.65936E-07
CHCHD10	0.18346064	1.66353E-07
RAB11FIP3	0.03023967	1.66416E-07
DUS4L	0.03481371	1.66458E-07
SYNGAP1	-0.0707934	1.68079E-07
BTF3L4	0.04413664	1.68877E-07
POC1B-AS1	0.06054067	1.71655E-07
RBBP9	0.05499633	1.72667E-07
UTP15	-0.0025401	1.73002E-07
MED18	0.00016559	1.75086E-07
ZGPAT	3.8908E-05	1.75511E-07
ACTR3C	0.04782763	1.76147E-07
APH1B	-0.0392292	1.7638E-07
HMGXB3	0.03059641	1.78066E-07
LINC00893	-0.028129	1.78452E-07
ZFYVE1	-0.0005746	1.80103E-07
BANP	-0.0261397	1.8088E-07
CENPV	0.055843	1.81591E-07
AC015712.2	0.01556211	1.84601E-07
TSPYL1	-0.0354436	1.86035E-07
TLE4	-0.1125625	1.8708E-07
FOCAD	0.0473044	1.87272E-07
AL591895.1	-0.0409682	1.87367E-07
INTS5	0.00463751	1.87644E-07
LRRC23	0.05292599	1.89926E-07
ZBTB42	-0.0503441	1.90063E-07
JOSD2	-0.0387963	1.9121E-07
OGFOD1	0.02014065	1.94231E-07
AC073111.4	0.01707322	1.94358E-07
CMC4	-0.0215864	1.96271E-07
ESYT1	-0.0002201	1.97657E-07
AC005523.2	0.03316916	1.98603E-07
CD79B	-0.0838886	1.99548E-07
TMEM161A	0.01940143	1.99571E-07
AC078846.1	0.04777033	2.00503E-07
AC008014.1	0.02523411	2.00676E-07
FKBP11	-0.0645114	2.0207E-07
RWDD1	0.12183839	2.02881E-07
BRF1	-0.0974968	2.03815E-07
ZNF813	0.05350902	2.04905E-07
GIMAP1	-0.0722562	2.06384E-07
AGAP5	0.04308439	2.06788E-07
HOXA5	-0.0136606	2.07162E-07
WDR77	-0.0061455	2.08113E-07
CENPT	0.0064005	2.08239E-07
SND1-IT1	0.04679863	2.09402E-07

PET100	0.12495568	2.11757E-07
CDK5RAP1	0.01393243	2.12387E-07
ANAPC2	0.06097083	2.14799E-07
AC027020.2	0.04913739	2.15073E-07
LINC02175	0.04969951	2.15292E-07
C2CD3	0.00297998	2.16665E-07
OXR1	0.10349093	2.16947E-07
TP53TG1	0.08140493	2.17346E-07
RNPEP	-0.0389448	2.17412E-07
PAK4	-0.0131046	2.17581E-07
DHTKD1	0.08544002	2.18639E-07
TATDN2	-0.0492199	2.19536E-07
MARF1	0.03253243	2.19727E-07
ECD	-0.0661407	2.199E-07
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RASGRP4	-0.1211544	2.21306E-07
TTC28	0.0375532	2.21528E-07
KCTD3	-0.0062674	2.23945E-07
CCPG1	0.03439799	2.24579E-07
UBP1	-0.0351348	2.24888E-07
SLC25A36	-0.1550296	2.26245E-07
APRT	0.17668628	2.26746E-07
DHX57	0.0484314	2.29502E-07
STK4	-0.185683	2.30713E-07
TAF1B	-0.0107691	2.30957E-07
PRR14L	0.09878225	2.31962E-07
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RBM3	-0.1902251	2.38804E-07
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AC004803.1	0.04181961	2.40711E-07
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JMJD8	-0.0375548	2.43216E-07
VASH1	0.07709024	2.45171E-07
TRUB1	0.02791561	2.45536E-07
LRRC8B	-0.0921322	2.46014E-07
MPZ	0.02734912	2.47052E-07
RANGAP1	0.04126873	2.47127E-07
DUBR	-0.1195027	2.48203E-07
MYL5	-0.0409451	2.49539E-07
GBA2	-0.0536548	2.49655E-07
HECTD3	-0.0161678	2.50477E-07
PCGF1	-0.0246343	2.53716E-07
PCGF5	-0.006661	2.54883E-07
AIG1	-0.0471192	2.55389E-07
TAOK1	0.04457566	2.57243E-07
SETD1A	0.01312911	2.58662E-07
SSX2IP	-0.1060093	2.59322E-07
MERTK	0.06259678	2.59791E-07
IFI16	0.25006213	2.60021E-07

MARK2	-0.0111986	2.61439E-07
NUDT19	0.03872375	2.65477E-07
SELPLG	-0.0348334	2.66206E-07
RBM5	0.01106888	2.69676E-07
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CLSTN1	0.04923045	2.71198E-07
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SLC12A2	0.02924709	2.74171E-07
AC147067.1	0.10550707	2.7428E-07
SART3	-0.0416536	2.75301E-07
DYNLT3	-0.0319148	2.75818E-07
USP46	-0.0074086	2.77176E-07
TRIP12	0.17852614	2.7719E-07
ZNF197	0.06193717	2.78099E-07
DDX47	0.02495843	2.78668E-07
RRNAD1	0.05885197	2.7897E-07
ZNF592	-0.0522304	2.82679E-07
TMEM135	0.00638839	2.86259E-07
TSPOAP1-A	0.01329376	2.86688E-07
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MAP2K2	-0.0299449	2.8873E-07
ARHGEF18	0.00705419	2.89425E-07
LY86	0.00232823	2.91761E-07
HEATR5A	0.04754319	2.92266E-07
GPAM	0.04972416	2.92818E-07
AL731563.3	0.04078607	2.93608E-07
RUFY2	-0.1030229	2.93792E-07
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POLM	-0.0016329	2.9578E-07
IL6ST	-0.0954684	2.98212E-07
TMEM265	0.06413375	2.98568E-07
RRAGD	0.03440912	2.98957E-07
HLCS	0.04206878	2.99513E-07
URB2	0.01838128	3.00891E-07
SMPD1	-0.0099041	3.02544E-07
PHF19	-0.1495994	3.02875E-07
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MRM3	-0.0063319	3.05138E-07
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ADGRG3	-0.0839137	3.07375E-07
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CSF2RA	0.09579786	3.09641E-07
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FYTTD1	0.01133847	3.12017E-07
ADA	0.08976373	3.12228E-07
DBNDD2	-0.0837067	3.12823E-07
CWC15	-0.1085639	3.1314E-07
DDX42	0.04835227	3.1472E-07

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DNAJC25	0.03295043	3.25292E-07
PSME2	0.06549196	3.26022E-07
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GOLPH3L	-0.0249393	3.368E-07
UPRT	-0.0012737	3.45917E-07
RBAK	0.04248622	3.46261E-07
ZFYVE19	-0.0414091	3.46575E-07
PHB	-0.0545731	3.47628E-07
AC005072.1	-0.0571673	3.49061E-07
PSMA3	-0.1610096	3.50801E-07
CEP135	-0.0357965	3.51651E-07
LINC00672	-0.0783976	3.51803E-07
AC078883.1	0.02050328	3.53799E-07
DNAL1	-0.0539462	3.56011E-07
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ZNF510	0.03835041	3.68599E-07
SHANK3	-0.0990022	3.68789E-07
DYTN	0.03969384	3.71055E-07
MTG2	0.00094379	3.71808E-07
TCN2	-0.0853292	3.74841E-07
MSANTD3	0.02947841	3.76001E-07
BICRA	0.01566576	3.76437E-07
ZNF185	-0.0526619	3.78526E-07
ATF7IP2	-0.036592	3.78911E-07
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SIAH2	-0.0707112	3.82533E-07
RCBTB2	0.06091045	3.84355E-07
HIC2	-0.0068401	3.84439E-07
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MPP6	0.03588518	3.92696E-07
NFYA	0.03349593	3.94958E-07
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CCDC159	0.00258931	4.08427E-07
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ACSL4	0.14426556	4.54209E-07
SUCO	0.01637825	4.60242E-07
BET1	0.05809291	4.61398E-07
OGDH	-0.0124158	4.63539E-07
SNRPD2	0.18732865	4.71151E-07
MKS1	0.02129833	4.72841E-07
SERPINB6	0.10950272	4.74866E-07
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PLOD3	-0.0695532	4.77661E-07
PCNP	-0.0258729	4.79374E-07
LIPE-AS1	0.0445687	4.8132E-07
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CD9	-0.1258816	4.82783E-07
CLTA	-0.1765788	4.83556E-07
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C1QTNF6	0.05213651	4.89701E-07
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CEP89	-0.0206947	5.00292E-07
IPMK	-0.0201197	5.10698E-07
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PIAS3	0.0193873	5.19954E-07
BMP1	-0.0390483	5.21069E-07
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SELENOS	-0.0773264	5.30853E-07
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MLST8	0.02878336	5.55629E-07
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PRKACA	0.05000886	5.61089E-07
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PEA15	-0.0583388	6.22956E-07
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FBXL6	-0.0594119	6.26073E-07
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BACE1	-0.0189879	6.29539E-07
TOR1B	-0.0173478	6.32304E-07
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MBTPS2	0.03264109	6.3869E-07
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AMZ2	0.04355924	6.52113E-07
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NDUFB9	-0.125216	6.54692E-07
HLA-DPB1	-0.2900944	6.58461E-07
SMN2	0.03802827	6.7291E-07
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KLHL36	-0.0288186	6.90835E-07
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MAP4K2	-0.0625407	6.95911E-07
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MRPL48	0.04818157	7.00764E-07
ABHD4	-0.0093125	7.03047E-07
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MTCL1	0.0534919	7.09434E-07
CLCN6	-0.0424282	7.09851E-07



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PSMA7	-0.1548572	7.11893E-07
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AARS	-0.0065635	7.13604E-07
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SNX1	0.00475073	7.31662E-07
INVS	0.03225538	7.32551E-07
GALC	0.02470749	7.38181E-07
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PPP5C	0.02703666	8.01736E-07
B4GALT7	-0.0446024	8.10937E-07
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ANKRD44	-0.0102428	8.23549E-07
MED24	0.02654575	8.25908E-07
ZNF852	0.05743552	8.28425E-07
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FGD5-AS1	0.03332611	8.54829E-07
FKBP3	0.05546333	8.57137E-07
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PARD6A	-0.0669146	8.69297E-07
VIM-AS1	-0.2343824	8.70472E-07
GALNT2	0.12390077	8.80547E-07
RBM10	0.02406641	8.80865E-07
HELZ2	-0.0964718	8.82319E-07
GFER	-0.0216955	8.88721E-07
SIRT3	-0.028245	9.07643E-07
ANKRD36	0.06601705	9.08526E-07
CHMP7	-0.0076623	9.17759E-07
RBBP6	0.17883842	9.19088E-07
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MAP3K2-DT	0.07818379	9.23624E-07
ANXA2R	-0.0779191	9.24199E-07
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LCLAT1	0.02968883	9.27457E-07

ANKRD44-IT	-0.0176491	9.27895E-07
C15orf65	-0.0964507	9.39378E-07
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INO80	-0.0225194	9.67623E-07
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ERCC8	0.03601897	9.70426E-07
ZNF251	0.01899894	9.73642E-07
FAF1	0.09380411	9.76056E-07
SF3B2	0.12608756	9.77211E-07
PVT1	0.06650041	9.83671E-07
CA3-AS1	0.04518119	9.8406E-07
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ETS2	-0.3114997	1.00247E-06
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TECPR2	0.03510325	1.03922E-06
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WDR19	0.03561474	1.06722E-06
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GCC1	-0.0085178	1.07698E-06
NEFH	0.06823765	1.07803E-06
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HAGHL	0.06223685	1.08492E-06
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ZNF329	-0.035855	1.10386E-06
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TTC31	0.00884322	1.13167E-06
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CCDC84	0.00881816	1.16004E-06
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BOLA3	-0.0016915	1.1914E-06
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PLD4	0.12607238	1.20512E-06
ZNF790	0.02621116	1.2106E-06
SIK2	-0.0216545	1.21297E-06
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MTHFSD	0.03477525	1.22598E-06
ZFAT	0.03332537	1.23514E-06
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POMT1	0.03773598	1.24762E-06
PROCA1	0.00431837	1.24865E-06
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RPS5	-0.2735328	1.25623E-06
RNF26	0.02151578	1.27827E-06
TMEM238	0.0378645	1.27967E-06
NBPF9	0.01623977	1.2817E-06
PNPLA2	-0.030371	1.28335E-06
MACC1	0.02497925	1.29642E-06
SCYL1	-0.0529783	1.30621E-06
ATXN7L3B	0.05505004	1.31054E-06
GEMIN8	-0.0117608	1.31545E-06
WDR44	-0.059634	1.3188E-06
TRIM34	0.07650267	1.31907E-06
WDR53	0.006665	1.32064E-06
ACAD11	-0.0028733	1.32927E-06
DIAPH2	0.15973636	1.33218E-06
KLC4	0.01951125	1.33582E-06
RNF144B	0.0503772	1.34626E-06
UBE3B	0.01348532	1.34648E-06
AL513550.1	0.04419868	1.35028E-06
KATNAL1	-0.0137255	1.35038E-06
AL157895.1	0.31377099	1.35851E-06
NDEL1	-0.1114225	1.36257E-06
C10orf25	0.05038562	1.40766E-06
BTG2	-0.2459652	1.41155E-06
PIAS4	-0.1237058	1.41348E-06
DUSP2	-0.0652514	1.42646E-06
ZNF627	-0.0114418	1.43346E-06
FLOT1	-0.0412362	1.4504E-06
NAALADL1	0.0515544	1.46498E-06
MSTO1	0.00695087	1.47124E-06
PPBP	-0.3462567	1.47609E-06
TCF25	0.07795	1.48397E-06
AL132709.8	0.05219163	1.48459E-06
SMYD2	-0.0198199	1.49221E-06
TEX22	0.01840184	1.49499E-06
GOLGA1	0.02152361	1.49653E-06
SH2B2	-0.1334127	1.50585E-06
TYROBP	0.30697534	1.51566E-06
FAAP100	-0.00158	1.51662E-06
ZSCAN31	0.03930811	1.52604E-06

KBTBD4	-0.0423431	1.53548E-06
DOP1B	0.02650157	1.54027E-06
TOP3A	0.02067846	1.55297E-06
AC027682.4	0.04227755	1.55774E-06
ESCO1	-0.0943455	1.55876E-06
SLC35D2	0.00607985	1.56273E-06
IDUA	0.02235973	1.57632E-06
UBL5	0.22154426	1.58161E-06
TOB1	-0.0569163	1.60087E-06
CTNNAL1	-0.0038008	1.60472E-06
NPR3	0.0280881	1.60518E-06
CASTOR1	0.01152219	1.61477E-06
FMR1-IT1	0.03550132	1.62099E-06
AC005520.2	0.02051312	1.62878E-06
BCL2L1	-0.0112592	1.6342E-06
DHFR2	0.05418384	1.6345E-06
BORCS6	-0.0214442	1.67642E-06
NICN1	-0.0018134	1.68313E-06
NIPSNAP3B	0.06573569	1.7092E-06
INPP5K	0.01401633	1.71005E-06
FCHO1	0.06602087	1.73833E-06
ZNF211	-0.0437767	1.73966E-06
ADAT1	0.00925918	1.75862E-06
PSMB10	0.05738509	1.77842E-06
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MIER3	-0.0181569	1.78282E-06
SLC35A2	-0.0871058	1.78824E-06
DYNLL2	-0.0615646	1.79338E-06
ARMC7	-0.0248605	1.79835E-06
SNX32	0.03722585	1.80756E-06
UBR1	0.00025413	1.80771E-06
XRCC6	-0.0796679	1.81128E-06
C16orf70	0.01828374	1.81518E-06
CYTH3	-0.0390912	1.82271E-06
LINC00884	0.04570636	1.83187E-06
SMCO4	0.0030511	1.83456E-06
TENT5C	0.09229095	1.84165E-06
NTAN1	-0.053033	1.87045E-06
ATP5MG	0.16503711	1.89751E-06
CD36	-0.1692232	1.90508E-06
DNASE1L1	-0.0764353	1.90778E-06
NSDHL	-0.0435456	1.90934E-06
TMEM186	0.01063945	1.93062E-06
SEC24C	-0.0547497	1.93188E-06
STAC3	0.05460534	1.93355E-06
AC104162.2	-0.0015677	1.93602E-06
NPIPA1	0.06392652	1.96937E-06
OSBPL3	-0.0352547	1.97007E-06
TRMT1L	0.06971541	1.97665E-06
ACAA2	0.00782293	1.97706E-06

CHM	0.09957947	1.9921E-06
C3orf62	-0.0387269	2.01555E-06
AC010615.2	0.05873377	2.01557E-06
MZT2B	-0.2229599	2.02097E-06
NUP50-DT	0.03536409	2.05123E-06
PES1	0.01272201	2.07024E-06
NUDT3	0.08008014	2.07787E-06
HOOK3	-0.0896804	2.07981E-06
TTC39C	-0.1045243	2.08621E-06
ARFIP2	-0.0200519	2.09698E-06
HIST1H2AE	-0.1070697	2.11607E-06
SBF1	-0.0525206	2.13009E-06
TMEM65	0.04298548	2.13639E-06
MRPL51	-0.0036526	2.15059E-06
BID	-0.0516504	2.15156E-06
TMEM191B	0.025149	2.16332E-06
NDUFB2	0.13051367	2.18061E-06
AGBL3	0.04710274	2.18158E-06
AC135507.1	0.01584339	2.18971E-06
ACOT8	-0.0085163	2.19264E-06
PDP1	-0.0360886	2.20842E-06
TRMT5	0.04491886	2.21754E-06
TRIM66	0.05807012	2.22982E-06
C15orf41	0.03808413	2.23345E-06
AC021054.1	0.04385889	2.27232E-06
PDCD4-AS1	0.09278363	2.30906E-06
TUBGCP6	-0.0090804	2.33755E-06
MDFI	0.04749653	2.34892E-06
RUSC1	-0.0297848	2.38004E-06
CHD3	0.09202431	2.41114E-06
NR4A1	-0.1291456	2.43003E-06
CSAD	0.0060371	2.45195E-06
KLHL21	-0.0119173	2.4679E-06
AC016588.2	0.03902169	2.4689E-06
ADGRG5	-0.0797996	2.48845E-06
TRAPPC9	-0.0051331	2.50007E-06
TYW3	0.04482628	2.50871E-06
MED13L	-0.0861763	2.51478E-06
ZUP1	-0.0947521	2.51629E-06
TCF4	-0.2122001	2.52555E-06
ZFYVE26	0.02972508	2.52825E-06
PLOD1	0.0455892	2.54599E-06
BLOC1S3	-0.0354088	2.55619E-06
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STT3B	-0.1290601	2.56082E-06
IQCE	0.02843779	2.57558E-06
LRSAM1	0.02276358	2.5901E-06
PEX7	0.04541344	2.59179E-06
RAD9A	-0.0358111	2.59407E-06
RBM26	0.15738	2.59676E-06

PDCD2L	0.05113896	2.60123E-06
GPRC5C	-0.0722371	2.60409E-06
PRUNE1	0.00214623	2.61272E-06
VANGL1	-0.2011486	2.62472E-06
TOMM22	0.05624118	2.6943E-06
LIN52	0.02312864	2.69527E-06
TRPV1	0.04343938	2.69823E-06
DNAJC12	0.06907448	2.70262E-06
ZNF672	0.0225741	2.71396E-06
AC145207.5	0.04607919	2.72198E-06
SCAF8	-0.0490474	2.76417E-06
STAG2	-0.0129429	2.77498E-06
ZBTB5	-0.0139559	2.79497E-06
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EIF3J	0.11502476	2.86229E-06
CC2D1B	-0.0744584	2.88921E-06
DZIP3	0.00853569	2.89011E-06
SPTY2D1OS	0.04832794	2.91703E-06
APTR	-0.0582283	2.92844E-06
TMEM199	0.02224377	2.93383E-06
PPP1R37	-0.0222443	2.94705E-06
SYVN1	-0.13472	2.97302E-06
SPTLC2	-0.1020855	2.98493E-06
DEK	0.11309777	2.98909E-06
TARDBP	-0.2068674	3.00658E-06
OAS2	0.02871441	3.01366E-06
MVD	-0.0729048	3.01845E-06
AL353804.1	0.03010144	3.02948E-06
TMED2-DT	0.06883649	3.06997E-06
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PDK2	0.02120529	3.08984E-06
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ROGDI	-0.0458299	3.13038E-06
AC093323.1	0.07490034	3.20483E-06
KLHL12	-0.0174299	3.22253E-06
FLVCR1-DT	0.06357233	3.24474E-06
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PITPNM1	0.04290829	3.2911E-06
ZNF354C	0.04531839	3.29336E-06
AC008443.1	0.00940098	3.29391E-06
GSTM4	-0.0056918	3.30452E-06
WSB1	0.05864967	3.30967E-06
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DNAJC8	0.13481333	3.34951E-06
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DNM1	-0.0046312	3.40667E-06
EME2	-0.0056451	3.41099E-06
BAP1	-0.0089164	3.41217E-06

ACTR8	0.02195757	3.4484E-06
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ABR	-0.036439	3.52429E-06
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LDLRAP1	-0.0301543	3.56113E-06
BBS4	0.04328639	3.56352E-06
RBM19	0.03228704	3.58706E-06
PLAGL1	0.02965906	3.58787E-06
C2orf42	0.03537925	3.59039E-06
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CCNYL1	-0.0502501	3.64111E-06
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WDR91	-0.005676	3.65793E-06
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WVOX	0.01475761	3.7348E-06
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CYB561D1	0.04847108	3.75467E-06
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MAST2	-0.004249	3.84049E-06
LINC01023	-0.0933249	3.86197E-06
ZSWIM1	0.04094782	3.86303E-06
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IFI44	-0.0432147	3.88373E-06
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AGTPBP1	0.03090276	3.90163E-06
HSDL1	0.0249626	3.90621E-06
HSBP1	-0.0269062	3.91593E-06
CCNB1	0.02166736	3.91938E-06
TRAF3IP2-A	0.01313877	3.94617E-06
TTI1	0.0228781	3.94964E-06
ARAF	-0.0350129	3.95253E-06
MAP3K3	-0.0700521	3.98408E-06
ATAD3A	0.00721722	4.0265E-06
KPTN	-0.0901247	4.0431E-06
ENGASE	0.03094586	4.06993E-06
GNE	0.02354881	4.1259E-06
TPRN	0.04227592	4.13714E-06
ZNF775	-0.1083746	4.13836E-06
NECAB3	0.01521458	4.14109E-06
PTDSS2	-0.0040653	4.15299E-06
ATP5F1E	0.20384198	4.16072E-06
WDR5	0.00771539	4.16581E-06
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CLHC1	0.08340443	4.16836E-06
AOPEP	0.00273421	4.2605E-06

AP001059.3	-0.0100854	4.28816E-06
AKR1C3	-0.0104048	4.31046E-06
TRAFD1	0.00993004	4.31229E-06
UEVLD	0.02340874	4.3146E-06
ZNF22	0.10749949	4.33183E-06
C16orf86	-0.0102727	4.33357E-06
TSC1	-0.0342977	4.34317E-06
KDM5A	-0.0586094	4.34968E-06
TMEM102	-0.0857162	4.42914E-06
TOP1	-0.0121172	4.43854E-06
HNRNPH3	0.05890668	4.46945E-06
HSPA14	0.01237887	4.60483E-06
THAP3	-0.0301228	4.62837E-06
NT5DC2	0.04713845	4.63721E-06
GORASP1	-0.0046483	4.66671E-06
NBPF11	0.0376118	4.68816E-06
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ERICH6-AS1	-0.1101976	4.75654E-06
DHRS7	0.0671494	4.79671E-06
SENP3	0.01180293	4.7982E-06
NFS1	0.02578708	4.81734E-06
ABHD5	0.04082698	4.82177E-06
MTCH2	5.2102E-05	4.82509E-06
GTF2IRD1	0.04487984	4.84265E-06
ARF5	0.06650903	4.85605E-06
SV2A	-0.0424775	4.88059E-06
C18orf32	0.05838651	4.91084E-06
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SEC24A	-0.047355	4.94556E-06
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EIF2S2	-0.1519864	4.96598E-06
DNAAF4	0.06609026	4.98102E-06
NR1D1	0.04431833	4.98794E-06
TXNDC16	0.03808963	5.00937E-06
ACCS	0.0102739	5.03952E-06
SIMC1	0.03840554	5.04143E-06
ZNF677	0.04574412	5.1035E-06
ANAPC11	0.1349827	5.11588E-06
MAP4K4	0.06861237	5.11617E-06
RAP2A	0.01994554	5.14095E-06
DNAJC18	-0.0663807	5.23375E-06
TCEAL4	0.14728477	5.2366E-06
TRAPPC13	-0.0112912	5.2436E-06
LIN9	0.05834313	5.27583E-06
SNRPD1	0.05306514	5.2794E-06
TRMT9B	0.05379422	5.32019E-06
SMAD1	-0.0345632	5.33255E-06
RAP2C-AS1	-0.0062894	5.37704E-06



SAYSD1	0.0365779	5.38238E-06
MLYCD	0.06817443	5.51786E-06
ENTPD4	0.0091391	5.52036E-06
AC090204.1	0.05251412	5.54904E-06
GRK4	0.01322614	5.56211E-06
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ICA1L	-0.03403	5.68275E-06
PANK2	-0.0931983	5.6865E-06
ZNF786	0.01062084	5.69649E-06
TAF10	-0.0423837	5.7055E-06
TOE1	0.05908092	5.77272E-06
TRAM1	-0.0377052	5.81941E-06
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AL355377.3	0.03229676	5.86916E-06
SUGP2	0.0929749	5.87378E-06
SINHCAF	-0.0718614	5.88997E-06
NAA40	0.00778064	5.90905E-06
SMUG1	0.03332207	5.91662E-06
TPMT	0.05288669	5.95121E-06
DDX6	-0.0023275	5.96938E-06
MTDH	-0.2098308	5.97333E-06
TECPR1	0.0035594	5.97732E-06
AC107214.1	0.03424185	6.01889E-06
HOTAIRM1	0.0044286	6.10117E-06
TRIR	-0.1663445	6.12776E-06
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VPS33B	-0.048856	6.19031E-06
MTMR2	-0.032053	6.20461E-06
SRSF10	0.05987208	6.21019E-06
INTS1	-0.0423068	6.30443E-06
GTPBP2	0.02334443	6.31359E-06
ZNF781	0.04320618	6.33262E-06
VCL	-0.1004392	6.36938E-06
SNRPB2	0.09249303	6.39178E-06
PEX10	-0.0100968	6.47331E-06
LAMB2	-0.0676953	6.47855E-06
MEF2A	-0.1228026	6.49453E-06
MTA3	-0.036469	6.50364E-06
ACOT2	0.01235116	6.51686E-06
PPP1R12A	-0.1694146	6.56325E-06
LYST	0.26891155	6.59309E-06
LINC00921	0.01501752	6.63357E-06
ZNF212	-0.0335919	6.65251E-06
KLHL26	-0.0831601	6.68216E-06
NIPAL3	-0.0249045	6.69037E-06
PDSS1	0.01069328	6.75325E-06
DUSP5	-0.1385656	6.79111E-06
YJU2	-0.0565128	6.83935E-06
RAPGEF6	-0.0579989	6.84525E-06
CDKAL1	0.03920873	6.85289E-06

AC008771.1	0.03865706	6.89726E-06
ASH1L-AS1	-0.0456428	6.92832E-06
AGMAT	0.04559823	6.93928E-06
STARD3	-0.0325734	6.96404E-06
RHBDD2	-0.112042	6.97076E-06
EPS15	0.12211439	6.99359E-06
PRPF40A	-0.1915979	7.03975E-06
ZG16B	-0.1194803	7.05451E-06
SEPSECS-A	0.06378275	7.06418E-06
SEC24D	-0.0030527	7.06582E-06
ELANE	0.27672771	7.08399E-06
CLIC3	-0.1275297	7.09651E-06
HNRNPM	0.16956113	7.10665E-06
CPEB2	-0.0370047	7.13044E-06
OPTN	-0.1278077	7.14972E-06
AC104532.2	0.01091389	7.27853E-06
TTYH3	-0.0383389	7.36991E-06
LINC00923	0.04509176	7.40807E-06
LBR	-0.0973212	7.51351E-06
ACOX3	0.01925643	7.52254E-06
TBCE.1	-0.0064128	7.53237E-06
NBPF1	0.02873219	7.55601E-06
PCTP	0.04278156	7.60693E-06
PSMB8	-0.0224632	7.6087E-06
TAF6L	0.02137351	7.61774E-06
GLIDR	0.03518745	7.7023E-06
GPN2	-0.0241588	7.85291E-06
AL135791.1	0.03628155	7.89182E-06
KLHL2	-0.042384	7.89224E-06
ZNF525	0.05003052	7.90563E-06
CRAT	0.02653724	8.01196E-06
TAOK2	-0.0102293	8.01436E-06
SH3BP5L	-0.0338365	8.0494E-06
PRPF4B	-0.1351656	8.05888E-06
NUBPL	0.05717582	8.16566E-06
GIMAP8	0.02370887	8.21099E-06
ZNF789	-0.0245345	8.29296E-06
FAM8A1	0.00339096	8.32579E-06
GNB1	0.02422981	8.39724E-06
RABEP2	-0.127627	8.39802E-06
ATP5MF	0.14485629	8.49673E-06
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EID3	0.02299294	8.51103E-06
UBE2I	-0.1714829	8.5657E-06
NBPF12	0.06017058	8.60929E-06
RASGEF1A	-0.0155707	8.61131E-06
PNMA6A	0.03652671	8.66762E-06
AC010680.4	0.0295968	8.70596E-06
PSMD8	-0.1410979	8.78456E-06
AC006141.1	0.11361993	8.79605E-06

SSH3	0.00926381	8.84828E-06
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KIF13A	-0.0010421	8.93325E-06
CLOCK	0.05207663	9.06064E-06
TXNL4B	-0.0017192	9.06216E-06
TTLL1	0.050355	9.09579E-06
LARS2	-0.0027854	9.12259E-06
RAB33B	-0.0068445	9.13441E-06
ZNF347	0.05877699	9.18767E-06
SOD1	-0.1504386	9.19646E-06
TPP2	0.04749435	9.25167E-06
CENPL	0.02427912	9.27852E-06
FMR1	-0.0008368	9.29942E-06
SELENOI	-0.0147431	9.30428E-06
ATXN7L3	0.02294954	9.32448E-06
SIRT6	-0.0086226	9.33162E-06
PIGZ	0.03933063	9.44848E-06
AC243960.1	-0.0041684	9.5545E-06
NFIX	0.05429995	9.5692E-06
MEPCE	-0.0043901	9.58462E-06
MARCH1	-0.1430509	9.64711E-06
DALRD3	-0.1216236	9.661E-06
RAB31	-0.1839014	9.67643E-06
PARP6	-0.0509322	9.68048E-06
GSTK1	-0.1708846	9.80838E-06
SMG9	-0.0040762	9.90025E-06
MFHAS1	0.03962298	9.94194E-06
AGXT	0.05365051	9.9939E-06
PROSER3	-0.0502013	1.01211E-05
CCL28	0.04642595	1.01228E-05
C19orf54	0.01841899	1.01749E-05
DUSP7	-0.0669505	1.02284E-05
FGFR1OP2	-0.0021303	1.02328E-05
PPM1L	-0.0037404	1.02707E-05
RACGAP1	0.03604875	1.02939E-05
GADD45GIP	-0.1111182	1.03494E-05
TRDMT1	-0.0243492	1.03516E-05
LRCH1	-0.0445748	1.03839E-05
ZNF133	0.01319087	1.04474E-05
ZMAT2	0.02334408	1.04478E-05
ANGEL1	0.03040408	1.06116E-05
TTC24	-0.0120697	1.0653E-05
RAB10	-0.0985097	1.07031E-05
PARP15	0.01659519	1.0752E-05
AC124283.1	0.01326701	1.07811E-05
SWT1	0.01758616	1.08763E-05
AC015871.7	0.01281313	1.0881E-05
ZNF219	0.01899571	1.10272E-05
HCG25	0.06266013	1.11036E-05
ANKFY1	0.03392902	1.11425E-05

IL18	0.22378245	1.11483E-05
AGBL5	-0.0451502	1.11787E-05
AC009120.2	0.0623932	1.12015E-05
BBX	0.0082872	1.12345E-05
C6orf163	0.04201708	1.12883E-05
AC008982.2	0.03621809	1.13028E-05
SLF1	0.00914871	1.13524E-05
MAP4K1	-0.0135861	1.16005E-05
CASZ1	-0.0727667	1.17097E-05
CCDC88A	0.14431418	1.17232E-05
ZNF436-AS1	-0.0164447	1.17749E-05
NET1	0.06078711	1.17821E-05
AC103702.1	-0.0885285	1.17996E-05
TNFAIP1	-0.0781404	1.1814E-05
AC009118.3	0.03472805	1.1816E-05
USP21	0.01938477	1.18191E-05
AC003681.1	0.04848906	1.18339E-05
LMLN	0.0325022	1.1834E-05
ISG20	-0.1381946	1.19333E-05
ATP5F1B	-0.2003549	1.19344E-05
DHX35	0.01424175	1.19745E-05
LY6G5B	0.02010882	1.21062E-05
FRMD8	0.0108444	1.22251E-05
HIST1H2AM	0.04923694	1.22914E-05
NEU3	0.04606657	1.25655E-05
P2RY1	0.04711557	1.25931E-05
DVL2	0.01950291	1.26486E-05
SHPK	0.02676454	1.26521E-05
FBXL18	0.03524596	1.26798E-05
NDUFC2	0.15082716	1.27126E-05
PTX3	-0.2040082	1.27159E-05
RBPJ	-0.0548527	1.27348E-05
MAK16	0.03389234	1.27666E-05
BPNT1	0.02973038	1.27777E-05
VCPKMT	-0.0832298	1.2857E-05
AC012306.2	0.03420436	1.29507E-05
KMT2A	-0.1882047	1.30428E-05
ZNF335	-0.0337957	1.30686E-05
SHLD3	0.03182233	1.31064E-05
BPGM	0.03699151	1.31335E-05
MAFIP	0.04626683	1.31391E-05
EYA3	-0.0742231	1.31427E-05
ZNF501	0.01470151	1.32333E-05
GHITM	0.10006415	1.33745E-05
GIHCG	0.22196142	1.34029E-05
CCDC24	-0.0814328	1.35638E-05
AC022150.4	0.03904393	1.36473E-05
FNBP4	-0.1577243	1.3778E-05
CWF19L1	-0.0128992	1.40482E-05
OSBPL7	0.01594702	1.41173E-05

DHX36	0.0027027	1.4581E-05
GMPPA	0.00781736	1.46463E-05
PRELID2	0.02418456	1.46851E-05
NR1H3	-0.0312162	1.47609E-05
INIP	0.04823261	1.48062E-05
LIG1	-0.015224	1.48761E-05
AC009005.1	0.04853803	1.48842E-05
LINC00174	0.0615596	1.4936E-05
CYP51A1	0.04870695	1.50855E-05
SCN1B	-0.1475694	1.51392E-05
LIMS1	-0.0410633	1.52456E-05
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GYS1	0.0680283	1.53477E-05
GXYLT1	0.01154755	1.54449E-05
MICAL1	-0.0853068	1.54571E-05
NIPA1	-0.0499946	1.55252E-05
NLE1	-0.0075115	1.5546E-05
SRXN1	-0.0102333	1.56277E-05
CRNKL1	-0.0304439	1.56279E-05
AL590064.1	0.02750099	1.56288E-05
RTL6	-0.0036658	1.56941E-05
TAB1	0.02064788	1.57752E-05
RPP25	0.03154586	1.57842E-05
BORA	0.0507424	1.58801E-05
STPG1	-0.0631927	1.59621E-05
TMEM120A	0.008915	1.59848E-05
NOP14-AS1	-0.0529844	1.60851E-05
PRAF2	-0.0623505	1.61001E-05
ARFGEF2	-0.0495352	1.62086E-05
GAB1	0.00577047	1.63877E-05
KLHL15	0.03816121	1.6656E-05
AL357079.1	0.06192965	1.67184E-05
HCLS1	0.13243373	1.68795E-05
CSTA	0.14078684	1.70143E-05
PPOX	-0.0172961	1.71648E-05
AC046134.2	0.02685736	1.71928E-05
SPDL1	0.10412411	1.73546E-05
CAPN11	-0.0925509	1.74932E-05
ZFYVE27	0.01927169	1.74964E-05
MAP3K7	0.01807172	1.75112E-05
KLF7	0.02283395	1.7544E-05
RAB38	0.04850858	1.76574E-05
CHI3L1	0.07357357	1.77019E-05
SAMD9L	-0.0265217	1.79123E-05
LRRC61	-0.0199882	1.80807E-05
ARHGAP19	0.00566244	1.80825E-05
TRAPPC5	0.15711069	1.86013E-05
AL391832.2	-0.0018404	1.87325E-05
ZDHHC8	-0.050476	1.89105E-05
EEF1G	-0.184697	1.89401E-05

BCLAF3	-0.0430428	1.89929E-05
TCF7	0.02917591	1.89968E-05
AK5	-0.077286	1.90748E-05
S1PR2	-0.0710283	1.94873E-05
BLOC1S1	-0.0070204	1.95878E-05
ING5	0.044054	1.96102E-05
BDNF-AS	0.05783509	1.96558E-05
ITGA6	0.08872206	1.98098E-05
PNRC1	0.14521095	1.98529E-05
ZNF549	-0.0073265	1.99182E-05
PHETA1	-0.0792334	2.00328E-05
C1QTNF3	0.03897338	2.00994E-05
ZNF30	0.03595072	2.01089E-05
ZKSCAN7	0.03675396	2.02412E-05
PSPC1	0.00847852	2.04047E-05
PIGB	0.04216613	2.05548E-05
CCHCR1	0.03345355	2.05617E-05
PDP2	0.01328397	2.05683E-05
SRGAP2	-0.0138582	2.06952E-05
NEK4	0.07337569	2.08247E-05
CNBD2	0.0090696	2.11476E-05
AC017083.1	0.01204404	2.12856E-05
RAD52	0.05461117	2.13684E-05
SGMS1	-0.0573297	2.13923E-05
H2AFX	-0.0568132	2.16547E-05
PFDN4	-0.0489476	2.16641E-05
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ZNF620	0.04935829	2.20004E-05
RBMX	0.14157009	2.20038E-05
TEP1	-0.0475205	2.20594E-05
DNAJC28	0.05223018	2.21973E-05
NEIL2	-0.0170128	2.222E-05
MTHFR	0.03669782	2.25318E-05
ZNF611	0.0146473	2.26207E-05
ARMT1	-0.0109097	2.29536E-05
BTG1	-0.0225556	2.2969E-05
ZNF236	-0.0234285	2.31221E-05
FOXJ2	0.00357543	2.33182E-05
PTAR1	0.02383046	2.3342E-05
ZNF324	-0.0242403	2.34458E-05
SEC61G	-0.0779015	2.38534E-05
VAC14	0.04645476	2.40975E-05
AL391121.1	-0.0603283	2.41426E-05
TP53I3	-0.0713602	2.43236E-05
DNMBP	-0.114956	2.43248E-05
TYW5	0.0217539	2.44167E-05
ACE	-0.1187194	2.47127E-05
NDUFAF5	-0.0135051	2.48875E-05
HPDL	0.03340027	2.49619E-05
C4orf33	0.02360655	2.52057E-05

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FASTKD5	0.04523466	2.52788E-05
ATG16L1	-0.0113316	2.5283E-05
DDX5	-0.2736301	2.52875E-05
PRC1	-0.053488	2.54098E-05
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ACSL3	-0.0947776	2.6312E-05
MN1	-0.1303296	2.6329E-05
BOLA1	0.02882199	2.64648E-05
CTBS	0.10857462	2.66375E-05
RWDD3	-0.0080155	2.67692E-05
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UHRF1BP1	0.02547146	2.70206E-05
ZNF696	0.02327306	2.70681E-05
TMEM154	0.02114392	2.707E-05
AC127521.1	0.00168915	2.71814E-05
P2RX7	0.02379683	2.75272E-05
DLC1	0.04972889	2.77073E-05
CCNG1	-0.0115966	2.7741E-05
AC027644.3	-0.0355872	2.77431E-05
AC074032.1	0.05006128	2.77474E-05
EMC10	-0.0084883	2.79889E-05
SLC9A7	-0.038994	2.85082E-05
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LEPR	0.05590153	2.91889E-05
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SPATA5L1	-0.0067223	2.95497E-05
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DONSON	-0.0034479	2.97308E-05
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FLVCR1	0.04480801	3.05729E-05
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RINT1	0.0174929	3.13503E-05
AC009812.1	0.04632407	3.15555E-05
FARP2	0.02044919	3.15749E-05
CD27-AS1	-0.084526	3.16061E-05
CLYBL	0.07273808	3.16902E-05
RPL10A	-0.1904751	3.19537E-05
AL080317.1	0.04359324	3.19793E-05
WRAP53	0.01874719	3.20231E-05
ZNF527	0.02613522	3.22858E-05
OBSL1	0.01313431	3.23767E-05
PHF13	-0.0882957	3.23786E-05
TUBG1	-0.0423728	3.26102E-05
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MIOS	-0.0237152	3.29424E-05
HAUS5	-0.0050875	3.29856E-05
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CRTC1	-0.0246805	3.38319E-05
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CEP68	-0.0134833	3.41309E-05
PEAK1	-0.1229766	3.44795E-05
PYGO2	-0.0206311	3.48599E-05
DNAJC30	-0.0634016	3.51034E-05
KLHL7	-0.0612669	3.52369E-05
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JMJD7	-0.0312319	3.58618E-05
CDCP1	-0.063668	3.61192E-05
RNF31	-0.003471	3.6198E-05
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CPA3	0.25099663	3.70369E-05
PRKAR2B	-0.01116	3.71175E-05
NABP1	-0.152731	3.7454E-05
PINLYP	0.02443566	3.77849E-05
GRB10	-0.0524379	3.78789E-05
PORCN	0.03717719	3.79137E-05
ZNF296	-0.083173	3.83757E-05
TAF2	-0.0714031	3.85329E-05
MICU3	-0.0294374	3.86741E-05
TYMSOS	0.02520464	3.90941E-05
WDYHV1	0.00914017	3.93843E-05
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PRKAB1	-0.0760416	3.99879E-05
NETO2	0.03141106	4.01772E-05
CCT6A	0.14610243	4.0191E-05
SSR3	0.10449759	4.02922E-05
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SGTB	-0.0701785	4.04665E-05
AL021155.5	0.00775691	4.06243E-05
AC011939.2	-0.0610649	4.06603E-05
LINC02762	-0.1089761	4.07585E-05
TM7SF2	0.03200307	4.10284E-05
AL157834.1	0.04763003	4.17629E-05
AL109628.2	0.04256595	4.19817E-05
DHCR7	0.04754716	4.22351E-05
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PLEKHG2	-0.0636762	4.25471E-05
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ALMS1	0.01629901	4.34752E-05
TTLL4	-0.0048378	4.35352E-05



DOP1A	0.00993963	4.36905E-05
LBH	0.16454734	4.39117E-05
PPT2	-0.0257734	4.41003E-05
INTS6L	-0.0125418	4.42612E-05
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TVP23C	0.02482685	4.44705E-05
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TNNT3	-0.0908761	4.46137E-05
RNPS1	-0.0112188	4.50699E-05
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LSM11	0.04153652	4.55979E-05
MDGA1	0.02326261	4.59559E-05
TXNRD2	0.00558994	4.61593E-05
DENND6A	-0.0209198	4.62012E-05
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RHOBTB2	0.02453711	4.6549E-05
TMEM175	-0.0254975	4.65761E-05
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CENPK	0.00559911	4.75155E-05
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SPACA9	-0.0903908	4.94985E-05
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C19orf81	0.05706447	5.1258E-05
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GSTZ1	-0.0295563	5.18481E-05
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ADCK2	-0.0010503	5.19409E-05
EML4	-0.1131334	5.26328E-05
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CNEP1R1	-0.0682708	5.3036E-05
OFD1	0.06683487	5.36712E-05
GOLGA4	-0.0304622	5.39117E-05
ELL	-0.1132629	5.48971E-05
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NME7	0.05350305	5.65566E-05
ACER3	0.0266731	5.67917E-05
UFSP2	-0.0692645	5.72614E-05
ADGRA2	0.04318888	5.81341E-05
KNTC1	-0.0310513	5.9609E-05
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TDRD7	-0.0132789	6.01333E-05
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HARS2	-0.0281738	6.06533E-05
C12orf43	-0.0322128	6.08287E-05
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LAMTOR1	0.17381993	6.27012E-05
AMZ1	-0.0857386	6.29723E-05
NOL7	-0.1322947	6.38306E-05
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TTC38	0.00749477	6.55021E-05
KIF11	0.04984356	6.63794E-05
DECR2	0.030942	6.65409E-05
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STK39	0.03075849	6.7466E-05
TRMT12	0.02140658	6.82494E-05
TAS2R30	0.01506106	6.86184E-05
MALRD1	0.01016325	6.87184E-05
CLCC1	0.01736125	6.89852E-05
CAHM	0.01945494	6.92573E-05
AC083862.3	-0.0421735	6.93623E-05
SEPTIN2	0.01645382	6.95728E-05
IQSEC1	-0.0967495	6.9837E-05
EZH2	-0.1257901	7.00348E-05
AC009831.3	-0.0426273	7.06916E-05
TBC1D32	0.0448588	7.07163E-05
ZNF207	0.09081134	7.12448E-05
AL035587.2	0.03612667	7.14775E-05
C9orf72	0.00872368	7.16413E-05
ADAMDEC1	0.06555656	7.22583E-05
SEC62	-0.0902219	7.26165E-05
PRICKLE3	0.01195759	7.27768E-05
YIPF4	0.10572105	7.27845E-05
SPATA20	-0.0326814	7.27861E-05
ZNF76	0.03141166	7.29044E-05
MIR1915HG	-0.0002958	7.42058E-05
TRGC2	0.02398376	7.48165E-05
SUFU	0.01014399	7.49484E-05
NDUFV2-AS	0.01263571	7.55331E-05
EXD3	-0.0519355	7.56465E-05
TUT1	0.00526135	7.59461E-05
USP8	0.02166233	7.60539E-05
VPS52	0.01245551	7.67764E-05
SCAPER	0.04138989	7.75577E-05
FAM131A	-0.0984905	7.83833E-05
KCNQ1OT1	0.43780418	7.84921E-05
ZNF225	0.01239201	7.86035E-05
CCDC167	-0.0237728	7.93886E-05
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AARS2	0.05899537	8.14501E-05
AC108047.1	0.02223454	8.24208E-05
NHEJ1	0.0424815	8.37292E-05
ZNF713	0.03626453	8.4276E-05
MYO1G	-0.1093133	8.48461E-05

PTGS1	0.08168945	8.53712E-05
RNF121	0.03388017	8.55359E-05
SH3GLB2	-0.0332786	8.56865E-05
AC004034.1	0.01616003	8.62889E-05
SOCS6	-0.0136872	8.70728E-05
TMOD2	0.02841888	8.7113E-05
FKBP15	-0.0219331	8.72922E-05
MEST	0.01285796	8.74434E-05
PDIA5	0.0091452	8.81326E-05
MARK4	-0.0184838	8.81505E-05
ARFRP1	-0.0702357	9.01263E-05
SEC11A	-0.0635331	9.16988E-05
AC107375.1	0.00910511	9.22368E-05
E2F3-IT1	0.009841	9.51452E-05
ACTR3	-0.1254237	9.60901E-05
ZNF678	0.05493024	9.65369E-05
XRCC2	0.04348158	9.66953E-05
BSPRY	-0.1225044	9.67534E-05
AC106707.1	0.02749329	9.70211E-05
INSIG2	-0.0150292	9.77871E-05
TMTC3	0.01193513	9.86868E-05
EFCAB7	0.04598637	9.89683E-05
GNPDA1	0.05660506	9.93376E-05
SLFN12L	0.05769353	9.95064E-05
MORF4L2-A	0.04800644	0.000101569
C10orf143	0.02142599	0.00010286
AC005076.1	0.05126147	0.00010391
USP30-AS1	-0.0380052	0.000104412
ZSWIM8	0.0278432	0.000104463
MEGF9	-0.0001777	0.000104828
TTLL5	0.02575175	0.000104936
SLC24A1	0.05768349	0.000105159
CCDC71	-0.0254174	0.000107151
THBS1	-0.197301	0.000107796
PRR34-AS1	-0.0451458	0.000108211
URB1-AS1	-0.03572	0.000109165
DEPDC7	0.02395493	0.000111604
ASCC1	-0.053718	0.000113012
FRAT1	0.00838592	0.000113446
UBE2E2	-0.0010453	0.000114537
KPNB1	0.06925361	0.000114721
LINC01806	-0.0634973	0.000115075
SHF	-0.065375	0.000115259
NOP58	0.17414251	0.000115709
PARP12	-0.0161645	0.000116695
SFPQ	0.16631042	0.000116861
SIAE	0.0046739	0.000116987
CYP2R1	0.0170135	0.000117011
LTO1	-0.0580261	0.000117211
ILDR2	0.02481285	0.000118759

FBXO33	-0.0896355	0.000119637
AC023157.3	-0.0586915	0.000119922
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POGLUT3	0.00211206	0.000120587
POLD1	-0.0101199	0.000121234
PPP1R3B	-0.062929	0.000121407
KCTD13	0.03667385	0.000122586
SESTD1	-0.0684086	0.000123131
DAPK1-IT1	-0.0572922	0.000123356
LINC01002	0.02875425	0.000124356
LRFN4	0.0308318	0.0001252
CAMKK1	-0.0931472	0.000126431
DENND2D	0.03733205	0.00012659
AC005726.5	0.03736608	0.000126798
MYLIP	0.05928699	0.000127424
ZNF700	0.02882843	0.000127633
SYTL4	-0.104053	0.000128483
TMEM254	-0.0063814	0.000128725
CCDC15	0.05958369	0.0001291
AC024075.2	0.04403893	0.000129278
AL450384.2	0.03931341	0.000129328
BTN2A1	-0.0188623	0.000129418
MED22	-0.031901	0.000131206
IKZF1	-0.0773588	0.000131341
HLA-F	-0.0834256	0.000131472
TEPSIN	0.00087191	0.000131694
VENTX	-0.0275791	0.00013193
APOBEC3F	0.01029766	0.000132581
SEC61A2	-0.0839934	0.000132693
SPHK2	0.04044946	0.000133477
AC007952.4	-0.006892	0.000133932
APBA3	0.01979018	0.000134982
ACTA2	-0.036063	0.000136578
LINC01122	0.04043383	0.000137546
NPM2	-0.0461676	0.000138107
AL035071.1	0.01883331	0.000138944
NACC2	-0.0807754	0.000138946
SMARCE1	0.00508654	0.000139095
PHLDB3	0.00710196	0.000139233
CRTC3	-0.0588929	0.000140357
HMG2	0.07151587	0.00014191
RRN3	0.01569365	0.000142442
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LSM8	0.08327885	0.000143205
LINC02193	0.02262664	0.000143578
MT2A	-0.2943068	0.000143937
FBXL8	0.04885201	0.000144333
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IPO11	-0.0689489	0.000145327

C10orf88	0.05510813	0.000146749
HIST1H2AL	0.04376994	0.000147634
ACOT9	-0.0345896	0.000147845
DEF8	-0.0790095	0.000147849
LRRC57	-0.0593297	0.000148155
FURIN	-0.0516438	0.000149348
EARS2	0.02595724	0.00015149
TBC1D19	-0.0076805	0.000152336
SH3BGRL	0.18694126	0.000154588
PPIG	-0.141738	0.000155096
ATF6	-0.1237785	0.00015543
PACS2	-0.0099516	0.000156375
WDR47	-0.0591436	0.000157537
AC090517.2	0.03080653	0.000159607
HIRIP3	-0.028585	0.000161409
TSPAN14	-0.0179794	0.000161985
PCNX3	-0.0015485	0.000162572
CCSAP	0.01515389	0.000163194
NAXD	-0.01312	0.000163332
DPH2	0.04572273	0.000164593
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PJA1	-0.0096587	0.000167987
FDXR	0.02432875	0.000168239
FBXO32	0.04938058	0.000170014
NRAV	-0.0349281	0.000170478
GIN1	0.0581127	0.000170794
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LRWD1	0.02447254	0.000171868
HECTD1	-0.0046988	0.000172674
GABPB1	-0.0897012	0.000172973
LINC01572	0.03105481	0.000173128
AC132872.1	-0.0217714	0.000173882
SLC22A4	-0.0655438	0.00017823
THBS3	-0.0831677	0.000179483
ZHX3	0.02725406	0.000180196
PRR3	0.0288472	0.000180789
CLDN15	0.00379705	0.000185624
FRMD4A	-0.0247733	0.000186233
PFDN5	0.15767725	0.000186932
ATG2B	0.01050842	0.000187462
C9orf85	0.01656854	0.00018836
EOGT	0.02262095	0.000188882
PHIP	-0.0345459	0.000189618
MOV10	-0.0541759	0.000191437
P2RX1	-0.0469328	0.000193134
PANX2	0.02064693	0.000195035
AC026401.3	-0.1006358	0.000196226
DNHD1	0.02771826	0.000196304
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ASB6	-0.0844151	0.000198183

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RNASEH2A	0.035068	0.000200331
ARHGAP10	0.06359886	0.000200848
DHX58	0.02714787	0.000201054
GORAB	-0.0193872	0.000201172
PELI1	-0.1161923	0.000201615
TYMP	-0.0042937	0.000202817
CENPBD1	0.02589903	0.000204183
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UBLCP1	0.05640827	0.000207645
FOXO4	0.03610104	0.000209591
RAB27B	-0.1815952	0.000210247
IMPDH2	0.11517465	0.000216199
TIPIN	0.05484532	0.000218762
AC090559.2	-0.0022571	0.000220947
CST3	0.3692186	0.000222472
UBXN2A	-0.0609214	0.000222481
PCF11-AS1	0.01214906	0.000222519
ARMC9	0.05677386	0.000223612
LINC00683	0.02292248	0.000223659
SF1	-0.2275391	0.00022409
RECK	-0.0446152	0.000225148
TMEM94	0.02195102	0.000226599
LINC00653	0.03525602	0.000228476
STEAP3	0.02438617	0.00022899
ABCB8	-0.0613898	0.000231209
NKAPD1	-0.044607	0.000231579
GTPBP8	-0.0292351	0.000232253
RDH13	-0.0449471	0.000232488
MIR646HG	0.01381449	0.000236413
PARP16	0.03987934	0.000239538
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TRAM2-AS1	0.05897312	0.000242597
AAR2	-0.0276199	0.000243232
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MBOAT1	-0.0566802	0.000247473
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NBPF10	0.05071349	0.000248623
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VAT1	-0.0040814	0.000251742
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ZNF552	0.01890784	0.000259746
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SAP25	0.01505885	0.000262595

DARS2	0.03517809	0.000262964
BORCS8	-0.03617	0.000266037
IL17RC	-0.0613058	0.000266059
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AC008393.1	0.02646534	0.000276403
UBXN1	-0.1051729	0.000277251
NBPF3	0.05220069	0.000280358
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CIP2A	0.03264031	0.000285031
AC083799.1	-0.0380818	0.000285874
AC068888.2	0.02717178	0.000286881
ZRANB3	0.03724925	0.000288607
SMPDL3B	0.01823738	0.000292129
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SGSM2	-0.0806914	0.000294667
SPSB1	-0.0457113	0.000295108
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ZNF699	-0.0418102	0.000297099
TRIM71	-0.029817	0.000299341
AL353194.1	-0.014389	0.000301416
RPS13	0.11042327	0.000301708
NCDN	0.03791495	0.000302356
AC069544.1	0.01695232	0.000303597
HMGCS1	-0.1726952	0.000303657
AL162253.2	0.0347824	0.000306035
RTP4	0.01112813	0.000311713
AL133410.1	0.02028979	0.000311852
LIN7B	0.04608101	0.00031334
WDR76	-0.0245572	0.000313629
FAM110A	-0.1012465	0.000314198
BEND5	0.00035714	0.000314634
PRSS57	0.15106042	0.000316726
MSH5	0.00914798	0.00032118
TTC7B	0.05350289	0.000326607
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TIRAP	0.0112142	0.000330415
HDGF	0.11192936	0.000333006
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KCTD11	0.00979477	0.000337794
WASF1	0.06467688	0.000341083
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VIPAS39	-0.0070565	0.000345433
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OGFRL1	0.03640314	0.000350554
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PIGW	0.01482609	0.000359776
FANCG	-0.0036792	0.000360955
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COA6-AS1	-0.0154505	0.000364363
AC103703.1	0.01576273	0.000367977
PARP2	0.03413389	0.00036828
IL12A	-0.0166987	0.00036853
HBEGF	0.04379215	0.000373489
APOL3	-0.020656	0.000374976
HMG5	0.08392629	0.000377424
GSPT1	0.12332899	0.00038148
TRIM41	-0.0249912	0.000383013
AMER1	0.03486203	0.000383918
DNAJC27	-0.0468094	0.000387991
MICAL2	-0.0860444	0.000390153
PPAT	0.03119354	0.000391001
ZNF776	0.01671828	0.000391721
AC069243.1	0.02456462	0.000392654
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C20orf197	0.02311554	0.000422528
HIST1H2BN	0.00667574	0.000423075
C4orf3	0.07454876	0.00042627
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CPNE1	-0.0006625	0.000430993
SMURF1	-0.104509	0.00043215
PRDX2	-0.0210682	0.000435288
SEL1L3	-0.051999	0.000438424
ESD	0.12775981	0.000441515
AFF1	-0.0877619	0.00044161
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ASTE1	-0.0539328	0.000453192
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MROH7	0.0309863	0.000458338
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AC064805.2	-0.0138213	0.000472086
SLC35B2	-0.0067015	0.000473272
GKAP1	0.03618086	0.000473274
AC009133.1	0.03058562	0.000473987
AC004847.1	0.01645924	0.000474372
TCEAL8	0.05014587	0.000479208
PRAM1	-0.082771	0.000487453
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RPL32	0.08889489	0.000488697
CASTOR3	0.01875322	0.000494234
FAM118B	-0.0079503	0.000510052
TRAM2	0.01312645	0.000511815
TCEA1	0.06355136	0.000512608
ZBTB47	0.02660013	0.000514439
KIAA0355	0.02603551	0.00051883
DNAJC1	-0.1768092	0.000523358
BBS9	0.01304843	0.000538399
ZSCAN5A	0.02703201	0.000553859
LINC01943	-0.0125167	0.000554838
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GEN1	0.05618052	0.000557446
KMT5C	-0.0660398	0.000566433
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HIST1H2BF	-0.0053183	0.000578535
HOXA10-AS	0.09522362	0.000583202
BARD1	0.01273147	0.000586784
MORC2-AS1	0.04251745	0.000587404
INCENP	0.02789406	0.000588349
TWSG1	-0.0613463	0.000590728
MSMO1	-0.046179	0.000592039
DMXL2	-0.0186063	0.000592091
AL392172.1	0.0353042	0.000593798
SP4	-0.0021782	0.00060167
GAS8	-0.0054635	0.000602887
AKT1S1	-0.0469412	0.000608362
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AC016065.1	-0.002405	0.000617999
RAB29	-0.0659573	0.000618342
DTNB	0.05726243	0.000630238
POFUT2	-0.0950619	0.000631693
RIC1	0.02029353	0.000631939
HIVEP3	-0.0243646	0.000635393
TNFRSF10B	-0.0667374	0.000637432
NME8	0.02052884	0.000643439
TMEM104	-0.102255	0.000643648
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BEST1	0.026321	0.000651032
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PUDP	0.0107006	0.000672165
RTF1	-0.0874852	0.000675132
LINC00894	0.0569026	0.00067519
CUL7	0.00914114	0.00067927
TSPAN4	-0.043305	0.00068182
TMEM53	-0.0275649	0.000693542
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MEIS1	-0.1281705	0.000700224
PIK3R5	-0.0669504	0.000705963
E2F6	0.01228209	0.000709098
PADI4	-0.0306424	0.000709737
MOB1A	0.00700049	0.000710292
CSDE1	-0.140413	0.000710456
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PIGV	0.02293544	0.000713012
ACSS2	-0.0109093	0.000728962
ZMAT1	-0.0135985	0.000736332
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EXD2	0.02609859	0.000739985
COG7	-0.0298433	0.000743452
TTL10	-0.0799827	0.000758254
SPATA2	-0.0286808	0.00076423
NHSL2	-0.0012978	0.000772316
USB1	0.02583035	0.000786831
MAML2	-0.0717862	0.000788242
AC007878.1	0.01235926	0.000790544
SNX8	-0.0680675	0.000794495
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DUS2	0.00294001	0.000800952
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ARHGAP5	-0.024789	0.000841849
UCK1	-0.0258769	0.000844972
AC007066.2	0.04086205	0.00085089
LYRM9	0.03411173	0.000855551
LAPTM4B	0.07356878	0.000858304
C8orf37	0.05288768	0.000871603
TSEN54	0.00202086	0.000876931
ATP5MC2	0.13949439	0.00088275
MICALL2	-0.0298346	0.000887659
WDR24	0.02089039	0.000889806
CPPED1	-0.0576609	0.000898462

AL096803.2	0.01470673	0.00090405
AP4E1	0.01948226	0.000914201
C14orf93	0.00956638	0.000914632
AKAP8	-0.0265793	0.000921989
PPM1D	0.02034729	0.000950716
TRMT61A	0.03940345	0.000951382
DCLRE1A	0.03468519	0.000953088
PAR6B	0.02241327	0.000964903
AC092944.1	0.05022794	0.000974056
AL121603.2	-0.0077371	0.000988069
SFXN1	0.0654732	0.001006283
SLX4	-0.0651198	0.001012901
SLC39A13	-0.0335489	0.00101467
AC097382.3	-0.0021876	0.001016836
CRYBG1	-0.1118554	0.001020111
ZXDB	-0.0055153	0.001020282
EMSY	0.04612203	0.001026444
CCDC92	-0.0114931	0.0010335
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ZNF583	-0.0100233	0.001065971
FAM47E	-0.0777765	0.001079129
CHKB	-0.0372213	0.001084196
SMIM6	-0.0154708	0.001085202
AC025181.2	-0.0501296	0.001093363
ARNTL2	-0.0035265	0.001110434
ZNF839	-0.0081779	0.001111088
ZNF148	-0.0223788	0.001126548
PRPF40B	0.04784647	0.001133559
CELF6	0.02164963	0.001142263
TRIM16L	0.03018765	0.001142516
KRTCAP2	-0.0766992	0.001173202
ESS2	-0.0738492	0.001189149
PCM1	0.07826577	0.001200844
C3AR1	-0.0396302	0.001214393
SLC49A4	0.00668597	0.001217575
ZNF280B	0.04926914	0.001232078
FAM126B	-0.0941725	0.00123999
ZNF749	-0.0008753	0.001241845
ZNF554	0.02928689	0.001249203
ZNF175	0.03183137	0.001251146
AL355336.1	0.02736535	0.001252508
CDC42-IT1	0.01845892	0.001256994
MFSD9	0.00289838	0.001260139
AP000873.2	0.01212235	0.001269381
DVL1	0.02574636	0.001273892
ZNF461	0.0095048	0.001279623
DYRK2	-0.0343081	0.00128191
HOXB3	0.01642948	0.001298226
REST	-0.0052735	0.001321436
ARRDC1-AS	-0.0186158	0.001325161

MAPK8IP3	-0.0651676	0.001356263
RPL4	-0.23642	0.001360694
MARCKS	-0.1758711	0.001360994
CDYL2	-0.0295735	0.001374121
ANKMY1	0.03753738	0.001381255
TPI1	-0.0088981	0.001389105
ZNF624	-0.0079462	0.001406315
PROM1	0.16848861	0.001410351
SEC22A	-0.0321831	0.001414722
SH2B1	0.00012814	0.001420295
SRRM2	0.0984454	0.001430729
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MYH9	0.06057897	0.001438571
USP5	0.04806352	0.0014515
RHOBTB1	-0.0281825	0.001452231
OLIG1	-0.0145298	0.001453856
AL592295.5	0.01687288	0.001462519
YTHDC2	-0.025024	0.001490531
ELAC1	0.02045221	0.001492415
MYO5C	-0.0835179	0.001494086
POLA1	0.0546698	0.001499568
TNRC6C	0.04129974	0.001504964
SRSF2	-0.1201134	0.001506435
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CDCA7	-0.0195431	0.001527869
ACOT4	0.02365288	0.001554883
ZKSCAN2	0.00661905	0.001588225
ETV5	-0.0536361	0.001596858
CD48	-0.0720253	0.001620837
ATP8B3	0.04109207	0.001620892
TMEM217	-0.0996439	0.001629415
POLA2	0.0053668	0.001645357
PYCARD-AS	-0.0490174	0.00165739
YWHAE	0.15152164	0.001657721
PLEKHG4	0.03507252	0.00166423
OTUD1	0.0178588	0.001666627
WDR4	0.01129534	0.001675445
UXT	0.11627867	0.001677267
DSN1	0.00525508	0.00171557
SLFN13	0.02442046	0.00172321
CPB2-AS1	0.02984699	0.00173434
PRKAB2	-0.0245576	0.001742611
DIABLO	0.05142978	0.001763785
WDR31	0.02782607	0.0017677
TCP11L1	0.01518935	0.001774839
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ARL13B	-0.0548572	0.001835719
HBD	-0.039624	0.001839991
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GRIK5	-0.0480893	0.001874799
PNRC2	-0.0795785	0.001898729
DGAT1	0.03427085	0.001906466
APPL1	-0.0600972	0.00191836
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AC141424.1	0.01251087	0.001952216
LINC00513	-0.0748232	0.001962705
C1orf54	-0.0469781	0.0019746
FBXL13	0.02317527	0.001976861
SSB	0.15334747	0.001995076
TIGD7	0.03688153	0.002042964
ZNF440	0.0384904	0.002044771
SCAF11	0.0986403	0.002045972
MINDY1	-0.0965802	0.002047075
SEPTIN7	-0.057004	0.002075895
IPO13	0.02126086	0.002085177
LETM2	-0.0996351	0.002089664
FAU	-0.1163487	0.002090792
ITPKC	-0.053247	0.002105404
PGM3	0.03972794	0.002108164
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CHST7	-0.0702726	0.002140703
ZFP1	-0.0501264	0.002177168
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C8orf82	0.03270171	0.002204485
ASL	-0.0492142	0.002205387
LINC01515	0.0423881	0.002209078
LINC00528	0.00726669	0.002261598
RAPGEF2	-0.0844913	0.002271523
RTL8A	-0.0040113	0.002294994
BBS1	-0.0066641	0.002314027
C2orf92	-0.0448116	0.002318843
METTL2A	0.03010688	0.002358714
CBR3-AS1	0.06610385	0.002362059
RAB11FIP4	-0.0852619	0.002372302
AL035446.1	-0.1249753	0.002390321
TAPT1-AS1	0.01579523	0.002394017
GK	0.00512501	0.002397216
NDUFC1	0.08009359	0.002401506
NAPB	-0.0357698	0.002418522
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COMT	0.08522666	0.002453569
SRP14	-0.1717555	0.00249213
ZWILCH	0.01815826	0.002492242
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ABAT	0.01970169	0.00253414
EXOC3-AS1	0.03572231	0.00253876

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SPINDOC	-0.0132901	0.002630654
IL11RA	0.04240216	0.002663004
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SH3GLB1	-0.1378078	0.002940106
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AVEN	0.05801328	0.002999553
GRAP	-0.0576301	0.00301908
RASA1	0.012969	0.003035638
TAX1BP1	0.09395597	0.003042217
AIF1L	-0.1430909	0.003043672
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HSPA8	0.20190829	0.003150231
CAMK1D	-0.1318798	0.00316407
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AC021016.2	0.02525143	0.003235345
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PRR5	-0.0544992	0.003307455
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SMCR5	-0.1054124	0.003340092
TARBP2	0.03087121	0.003341173
PRDM4	-0.017146	0.003393128
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KNSTRN	0.01823133	0.003402259
USP40	0.0418311	0.003430547
TSTD2	0.00859863	0.00344988
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CPSF6	0.01703939	0.003475918
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MTBP	0.02969354	0.003687415
SERPINF2	0.02181973	0.003767108

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CDC7	0.02443446	0.003898675
ZNF18	-0.0080937	0.003947868
FKBPL	-0.0261352	0.003951287
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LINC00630	0.00606807	0.0042675
SYPL1	0.09285314	0.004275396
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MED26	-0.0367825	0.004501195
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BTN2A2	0.00394889	0.005884616
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MBNL1-AS1	-0.007362	0.005953892
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CA13	0.00148313	0.006519078
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SBF2	-0.0093609	0.006696778
RTN4IP1	0.01242376	0.006957179
PIGA	-0.0218581	0.006998062
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CRYBG3	0.05171818	0.00737926
CTTNBP2NL	-0.0739261	0.00747256
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TOM1L1	-0.0147439	0.007514002
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HDAC4-AS1	-0.0169305	0.00776342
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MCU	0.02785376	0.008175552
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CDAN1	0.0156358	0.009527888
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LAMTOR4	0.12808484	0.009854233
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PIDD1	-0.0406063	0.010398932
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TRIM52-AS1	-0.0230254	0.010668027
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DNAJC17	-0.0141855	0.011171941
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PIGO	-0.0015631	0.011476963
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FMO5	0.01792636	0.011782723
QSOX2	-1.843E-05	0.01178564
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LINC02021	0.0300103	0.011830253
SERF1A	0.02665486	0.011891449
GINS2	-0.0739869	0.011956483
NKIRAS1	0.0163284	0.012016319
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CTSG	0.08806393	0.012305673
MOB3C	-0.0395402	0.012345603
SYNCRIP	0.01781491	0.012436991
AL365272.1	-0.0120002	0.012451663
HIST1H2BK	0.02730957	0.012495724
CIDEB	-0.0120975	0.012501964
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SEPSECS	0.042118	0.013034385
WDHD1	0.03688954	0.013141324
CACTIN	0.00536328	0.01332588

MT1F	-0.0562164	0.013491527
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IQCK	0.00272986	0.013551397
AP4S1	-0.0625084	0.01393197
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NDUFB11	-0.0380862	0.014178678
SC5D	0.00453185	0.014446627
ZNF25	0.04105219	0.014454071
LANCL2	-0.0515777	0.014497064
IFT140	0.03364501	0.014538111
EXO5	-0.0071753	0.014654721
FAM204A	0.02878146	0.014963344
HSPA1B	-0.052891	0.015095865
HEATR6	0.01409496	0.015156895
PGLS	-0.1090405	0.015232524
OAS3	-0.0540395	0.01524413
CAMSAP1	0.02737997	0.015416448
AEN	-0.0138271	0.015422295
WSB2	-0.008316	0.015538181
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MMAA	0.01243764	0.015756833
RPS4X	-0.1341316	0.015807061
MAP3K14	-0.064841	0.015990711
TMCO4	0.03011112	0.016031241
CRELD1	0.00381802	0.016046232
OR2L2	0.031656	0.016272984
VDAC2	0.11086491	0.016438508
GOLGB1	-0.0133064	0.01653688
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C7orf25	-0.000356	0.017409294
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ZFYVE16	0.01997568	0.017856376
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NAPA-AS1	-0.0246937	0.018218466
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KAT2B	-0.0229773	0.018269776
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CSTF2	-0.0007017	0.019308995
ZFP30	0.01307821	0.0200634
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DEPDC1B	0.02673548	0.020333244
POGLUT2	0.00305545	0.020361497

MED20	-0.0137864	0.020664335
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YJEFN3	0.0058537	0.020902938
SPCS1	-0.0959848	0.021181684
ST3GAL5	-0.0979528	0.021486448
USP30	-0.0449782	0.021588741
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C1orf112	0.02348247	0.022551597
MX1	0.03003088	0.022647043
SPATA7	0.01304155	0.022755122
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BUB1B	0.00150419	0.023112033
AC133550.3	0.0315816	0.023276151
SORBS3	-0.0807792	0.023497496
SARM1	0.03620497	0.023984263
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B2M	-0.1679842	0.023998138
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KIF3B	-0.036573	0.024612938
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NKTR	-0.0659016	0.024791935
ARRDC3-AS	0.03537632	0.024800547
CHEK1	-0.0742154	0.024865255
ZBTB45	-0.0480315	0.025158691
OCRL	-0.0087725	0.025873474
STARD8	-0.0681304	0.025974822
BTRC	0.01049221	0.026085351
MMP25-AS1	0.01098348	0.026194612
PSD4	0.03249356	0.026893978
MLH1	-0.0319239	0.027460714
A2M-AS1	0.01631822	0.027485878
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CALML4	0.01051224	0.027535953
FNIP2	-0.0838829	0.027806838
TBC1D22B	-0.0244288	0.028026844
AC020910.5	0.02657998	0.028162826
C2CD2L	-0.0587834	0.028240333
BPHL	0.01484375	0.028530891
HIST1H2BG	-0.1003024	0.028651536
TET2	-0.0250396	0.029472055
MRPL53	0.03852919	0.029602231
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LXN	0.15536834	0.030077596
TTYH2	0.00881263	0.030991641
AGAP3	-0.0675406	0.031035011

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TMEM62	-0.0014998	0.031513196
TIPARP-AS1	0.01538071	0.032151206
GRB2	0.08713825	0.033127794
RUBCN	0.01328363	0.033164372
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HNRNPC	0.10052574	0.03457462
MYCNOS	0.02048308	0.034911293
ARFGAP1	-0.047005	0.035293506
HVCN1	-0.0320783	0.035344816
ITM2A	-0.1360218	0.035927757
REPS2	0.0178286	0.036304165
C12orf49	0.01798012	0.037224688
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ZNF235	0.02687206	0.037861778
ENPP4	0.00571653	0.037880978
ALG12	0.02070369	0.038180984
KIF13B	-0.0132642	0.038349046
ZNF200	0.01504945	0.03868007
ZFP36L2	0.16494797	0.038923594
SLC12A9	-0.0739913	0.039977124
ATP5PO	-0.0103913	0.040038323
APEX2	-0.0039455	0.040165296
AC093525.6	-0.0244359	0.040227142
SOCS2-AS1	-0.007245	0.040455781
SNRPF	0.10788319	0.04054818
AP001816.1	-0.0656605	0.0406414
RMI2	-0.0464718	0.041390325
FYN	-0.0526151	0.041520473
HNRNPU	-0.2458393	0.042860967
ELN	-0.1092611	0.043100399
ATP5IF1	-0.05896	0.043157747
ZNF778	0.0242491	0.043494466
JADE3	0.00817239	0.04352883
ASAP2	-0.0033179	0.043617892
DOHH	-0.0319325	0.044866618
AC090517.5	0.02473339	0.046083973
GBP5	0.02210355	0.046180517
PPP1R12C	-0.0213379	0.04627666
COX6A1	-0.1603081	0.046405938
GSTM3	0.03055974	0.046490796
DNA2	0.02327188	0.046528184
TBC1D25	-0.0298402	0.046684665
TBC1D14	-0.001118	0.047103316
NEK8	-0.0220102	0.04772889
POLR3F	-0.036812	0.047784112
DPCD	-0.0523077	0.049570944
TRIT1	-0.0237352	0.049637763

FCHSD1	-0.0289263	0.051257043
VNN1	-0.0959303	0.051774151
C11orf24	-0.081132	0.051884472
LINC01137	0.00851053	0.051974422
ARMCX1	-0.0760443	0.053132814
AP001059.2	-0.0338058	0.053324238
NDUFS5	-0.0645934	0.053359706
ZBTB3	-0.000399	0.053669161
KDELR1	0.05820785	0.053682981
INAFM1	-0.037751	0.053728583
NKD1	0.05490397	0.053923264
TCTA	-0.0545153	0.054146148
PDZD11	0.00627322	0.054454307
CCSER1	0.05763423	0.055151127
KHDRBS1	-0.106943	0.055335615
IQSEC3	0.02306226	0.055436598
MIGA2	-0.0019739	0.056449257
ATPAF1	-0.0070079	0.056904068
HIST1H1D	0.2760215	0.057207659
MIR1-1HG-A	0.00498058	0.057948699
CDPF1	0.00268763	0.058758068
AP001505.1	0.03439951	0.059100759
AC109460.2	0.01993581	0.060889798
INTS9	0.04014145	0.062132212
AC007114.1	0.04531198	0.062242452
DUSP28	0.00418836	0.063843078
SLC25A53	-0.0105931	0.064286731
HYLS1	0.06028937	0.064622082
CTC1	-0.0336197	0.064781569
PSMC3IP	-0.0788768	0.06521745
AC020658.5	-0.0018561	0.065544608
RPL13	-0.1269127	0.066239443
LZTR1	-0.0015547	0.070628805
CLP1	-0.0082812	0.071063686
SRR	0.02117498	0.071669219
CYSLTR2	-0.1239695	0.07182238
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FAM189B	-0.0063696	0.072205625
LINC00173	-0.0300898	0.072214698
SP2	-0.0472054	0.072511693
SBF2-AS1	0.02870246	0.072868295
ATP6V1E2	0.03156591	0.072877729
PRKAR1B	0.03826647	0.073006538
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C17orf75	-0.0066306	0.073318377
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PSKH1	-0.0516264	0.074685171
FBXO8	-0.0350406	0.076010598
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LAMTOR5	-0.0821261	0.076920788
SLC25A14	-0.0327102	0.077640664
ATP5MC3	-0.1513589	0.078030458
ATP5MD	0.0771542	0.078047251
BRCA2	-0.0829334	0.078504316
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S100A13	-0.0715318	0.08030092
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GPR137	-0.032378	0.082597419
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RAB24	0.01084985	0.083411812
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RALBP1	-0.0800079	0.087426743
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AC092428.1	-0.0553886	0.088179951
PHF3	-0.0092392	0.088816924
NAA16	0.00723684	0.089502355
SLA	0.04845824	0.090388543
CD200	0.00326192	0.091427093
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USP51	0.0454644	0.093998408
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CNNM4	-0.0107622	0.095424259
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NCAPH2	-0.0282373	0.10013407
GALE	-0.0544861	0.100204565
UBTD1	-0.0617182	0.100919898
MEAK7	-0.0247322	0.101340174
ATG9A	-0.0514241	0.10161207
RPS23	0.05748097	0.102912438
LINC00294	-0.0085533	0.103690367
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LTK	-0.07655	0.10518796
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VAMP1	-0.0545983	0.106881357
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CD180	-0.0739144	0.126827175
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MON1A	0.01285167	0.129926991
SSBP1	0.07277853	0.131374498
COX7B	0.06279901	0.131492936
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DYNLL1	-0.0302439	0.136847721
CEACAM21	-0.0396543	0.137142347
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PROSER2	0.00029057	0.149957514
SNX3	0.14073619	0.150270998
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ARMCX5	-0.0017692	0.152382719
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PIGQ	-0.0085362	0.156142046
USP49	0.03072781	0.156395715
CHCHD6	0.01286019	0.156422463
AC004943.2	0.01798881	0.157060556
STARD7-AS	0.027685	0.158165749
DNAJA4	-0.0229536	0.15964101
AMMECR1	0.02750275	0.165634832
REEP5	-0.0023208	0.16655604
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LINC02328	-0.0114049	0.172588858
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TSPAN17	0.00609376	0.175219191
RHOBTB3	0.03783993	0.176892328
SRSF9	-0.069036	0.177546338
NLRC5	-0.0204412	0.178836313

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ARPC1B	-0.1574212	0.185263395
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CLINT1	-0.0389374	0.196477814
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METTL22	0.00044226	0.208942873
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ACTR5	0.01093184	0.210502055
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MEF2B	-0.0047925	0.217570139
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VILL	0.01483606	0.231294942
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DICER1-AS1	0.04562021	0.269391821
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HHAT	0.01547181	0.306001578
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MLLT11	-0.0798737	0.320230326
TANC2	0.02817977	0.32027923
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GNAI1	-0.0486159	0.322718224
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C1QTNF4	-0.1326889	0.328281854
ZNF773	-0.0126703	0.329572142
IL12RB1	-0.015107	0.340371701
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LCMT2	0.04363691	0.3695756
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KIAA0556	-0.0369594	0.381762502
SPARC	-0.0642033	0.390589941
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SRSF11	0.01320158	0.409905025
GNB1L	0.03846708	0.412119376
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IL13RA1	0.05129218	0.428077442
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C16orf46	-0.01207	0.445644617
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GATA2-AS1	-0.0510046	0.576922889
CENPS	-0.0230747	0.578889571
MAEL	0.02887052	0.580855665
IFT88	-0.0675172	0.60399185
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ABLIM1	0.01622415	0.64716688
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MVK	-0.0157771	0.669311973
TAF1C	-0.0100416	0.675321741
CD69	-0.1221422	0.682664922
BBS7	0.0528852	0.695602947
MORF4L1	-0.1662403	0.702062671
ZFHX3	0.00080164	0.743003205
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GCC2	-0.0326777	0.754425665
TNFSF4	-0.0034373	0.768845813
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DNAJC27-AS1	0.00417506	0.785827182
TTC8	0.01049073	0.797048582
CCDC142	-0.0189218	0.801638829
ZNF444	-0.0191704	0.844527784
PTAFR	-0.012322	0.85872754
HOXB-AS1	0.01502649	0.927146889
HNRNPK	0.10947862	0.943447396
AC012020.1	-0.0204054	0.969837095
SLC16A1-AS1	0.00783629	0.977698652
ZMYND8	0.06546638	0.986619233
ZNF799	0.00255903	1
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DZANK1	0.0099097	1
DSCC1	0.01377353	1
TMEM86B	-0.0738291	1
KYNU	0.01791814	1
LRP12	0.00281914	1
MT-CO2	0.11294877	1
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SLC4A2	-0.0222978	1
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ZNF513	-0.0148841	1
NAGA	0.01474142	1
IFT81	0.00579694	1
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GAS2	0.0520269	1
MICALL1	-0.027055	1
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HLX	-0.0004827	1
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ABCC10	-0.0047891	1
NFKBIZ	0.04268288	1
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AACS	0.02319893	1
OSM	-0.0581365	1
MYO1B	-0.0562461	1
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AQP3	0.08788621	1
IGF2BP3	-0.1020266	1
SMIM13	-3.159E-05	1
HLA-DRB5	-0.1932009	1
MYO7B	0.01154928	1
FANCD2	0.00589566	1
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POLR2L	-0.0383981	1
SEPTIN6	-0.0068009	1
VARS2	0.01796183	1
VPS9D1	-0.046058	1
SSR4	-0.1351864	1
KIFC3	-0.0944833	1
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C9orf16	0.05485025	1
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MICB	-0.0085765	1
LPAR2	-0.0447798	1
HIST1H2BD	-0.0553523	1

GTF3A	0.06529835	1
CTU2	0.02318163	1
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GDPD1	-0.0522539	1
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EIF2AK3	-0.0017622	1
ATP5F1C	0.00770546	1
ECT2	0.00121241	1
HACD1	0.01883289	1
RPL7	0.06967126	1
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PIP4K2C	0.02518909	1
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DBF4B	0.02831039	1
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MAX	-0.0401558	1
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DSC2	0.0055145	1
C3orf80	-0.0537624	1
SFMBT2	-0.0172613	1
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FKRP	-0.0299493	1
CCDC26	0.03157574	1
PASK	0.03489661	1
FAM81B	-0.0291284	1
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GSTO1	0.05606904	1
EHD2	-0.0546146	1
HAUS8	0.00586225	1
ACVR1	0.03383093	1
SUV39H2	0.024459	1
SERAC1	-0.0055448	1
SERPINI1	0.06408874	1
ARHGAP26	-0.0301395	1
ACTB	-0.1668166	1
MT-ND1	-0.1599368	1
DDX3X	-0.1202084	1
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ITGA2B	-0.0654317	1
HEXIM1	0.0104806	1
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GABARAP	-0.1435718	1
SAMD10	-0.026337	1
TIGD6	0.00374453	1

GMFG	-0.1226918	1
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RPS14	-0.1191103	1
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KLF11	-0.012428	1
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LYL1	0.03986071	1
HCP5	0.02061123	1
ZNF771	-0.0029602	1
AL358780.1	-0.007772	1
ERP29	0.03552852	1
YY1	-0.0074533	1
GALNT6	-0.0205116	1
NPC1	-0.0107164	1
FAM27C	-0.0008933	1
SMIM14	0.03147824	1
REC8	-0.0087908	1
HIST2H2AA <sub>4</sub>	0.01353217	1
GDPGP1	-0.007156	1
RETN	0.00076058	1
CST7	-0.0847614	1
FCSK	0.01560508	1
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CCNA1	0.0164413	1
AL118516.1	-0.0923167	1
CEBPD	0.0686605	1
PRXL2B	0.02288888	1
MICA	0.00542928	1
MYOF	-0.0175966	1
EIF1B	-0.1489676	1
ZSWIM4	-0.0684277	1
USP54	0.00837368	1
CLU	-0.213906	1
CYP2U1	0.02574711	1
NCAPG2	0.01278674	1
ZNF682	-0.0064172	1
TEX9	0.01424452	1
ENPP2	-0.0481738	1
LGALS3	0.0149058	1
ZNF528	0.03095351	1
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IBA57	-0.0230067	1
MAP11	-0.0103903	1
AL121944.1	-0.0729022	1
GLIPR1	-0.1102398	1
COX6C	0.01983409	1
HLA-DMB	-0.0501246	1
AC015982.2	0.02159164	1

HIST1H4H	0.00880784	1
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SUMO2	-0.107271	1
FOXP1	-0.0237637	1
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DXO	-0.0429775	1
TKT	0.08470644	1
AC015871.1	0.02163779	1
ACSF2	-0.0089837	1
TAOK3	0.07763065	1
RAN	-0.0683784	1
AC132192.2	-0.0069638	1
APOM	0.00088964	1
CDR2	0.01364658	1
HLA-DRB1	-0.0278334	1
PDZD8	0.05032531	1
ZNF763	0.00669468	1
TSPAN13	-0.0112114	1
AC009065.4	0.00960605	1
CCDC112	0.03208218	1
COX7A2	-0.0197939	1
GAN	-0.0029619	1
ZNF584	-0.0310823	1
MYL12B	-0.1244596	1
DCLRE1B	-0.0011998	1
DANT2	0.02640479	1
ARHGDIB	-0.1340634	1
DRAP1	0.0120317	1
MIR4453HG	-0.0207897	1
HNRNPH1	0.11286884	1
CHURC1	0.01011732	1
CALM2	-0.0443601	1
ALDH2	-0.0034232	1
ARF4-AS1	0.00999503	1
GNG5	0.01543249	1
CACNA1C-A	0.0105722	1
RPS15	-0.1114795	1
CDC37L1-D1	0.01651216	1
SYF2	0.02455719	1
TULP3	0.01458954	1
COX8A	-0.0307931	1
RHOB	-0.0668405	1
YTHDF3-AS	-0.0435689	1
DOCK8-AS1	-0.0034905	1
EIF3L	0.04913183	1
KIF3A	0.00068649	1
TAF1D	0.07450647	1
BX640514.2	-0.0042425	1
ELOB	-0.0535173	1
RPS3A	0.06920187	1

SEM1	-0.0471444	1
EIF3F	-0.1201136	1
HLA-DQA2	-0.01632	1
C17orf49	-0.0555131	1
PTGS2	-0.1101245	1
HNRNPA2B1	0.03101633	1
AC091271.1	-0.0499616	1
HNRNPA0	-3.175E-05	1
RPL17	0.02270395	1
BASP1	-0.0285878	1
TSPYL2	-0.0052183	1
ACRBP	-0.0392624	1
RPS16	0.04210237	1
SNHG29	0.03824203	1
ACY3	-0.0017865	1
RAB3IP	0.00614192	1
C11orf95	0.00010702	1
NSMF	-0.0384774	1
SELL	-0.035311	1
CALR	0.00245673	1
DGCR6	-0.0388785	1
RPL23A	0.03807511	1
STX2	-0.0279644	1
MALAT1	-0.0047043	1
SLC25A45	0.00893193	1
HIST1H2AG	-0.0155675	1
AC127496.5	0.01484006	1
RTRAF	0.05204629	1
HLA-DQB1	-0.0386621	1
AFF3	-0.0245504	1
AL355075.4	-0.0512313	1
JHY	-0.0308195	1
C11orf58	-0.010692	1
SNHG7	0.15102709	1
POLR1D	0.00334631	1
MT-ND4	-0.0842852	1
ANKRD12	-0.0689046	1
SERPINF1	-0.0218818	1
ATP5F1D	0.04143848	1
RSPH3	-0.019895	1
NQO1	-0.0088753	1
GSTP1	-0.0813084	1
MBNL1	-0.066606	1
HMGB3	-0.0505126	1
PHYHD1	0.01467014	1
SLC25A3	-0.0694091	1
FAM161A	-0.0137515	1
MFGE8	0.01431552	1
IER5L	-0.0403669	1
OAZ1	-0.1003634	1

RPL14	0.04000178	1
TSC22D1-A5	0.01602652	1
PCK2	-0.041861	1
HIST2H2BF	0.01015347	1
GPR35	-0.0424168	1
PRDX1	-0.0026512	1
AREG	-0.0507654	1
POP1	0.01210092	1
ARPC3	0.0342907	1
CKB	-0.0451086	1
PSME1	0.0705655	1
PPIA	-0.0650312	1
PLAC8	0.23314372	1
PEBP1	-0.0666826	1
RAD51B	0.00715022	1
SERP1	0.07327529	1
ZNF710	-0.0089589	1
CSRNP2	-0.0175447	1
RPLP1	-0.0458409	1
HLA-DQA1	-0.0262931	1
RPS7	-7.214E-05	1
LINC00211	0.00385705	1
ARPC2	-0.0578358	1
LAPTM5	0.00697289	1
RPLP0	-0.0060576	1
AC002467.1	-0.004919	1
ZNF165	-0.0578164	1
EIF4A1	-0.0919315	1
RPL6	-0.0971659	1
MT-ATP6	-0.04199	1
LAT	-0.0156077	1
EIF3H	-0.0284062	1
FXD5	0.03598181	1
HIST1H3H	-0.0127967	1
RPS2	0.00082084	1
ITM2B	-0.1114254	1
EIF3K	-0.0283007	1
AC087239.1	-0.0266292	1
RPS8	-0.0576144	1
SLFN5	0.00421172	1
RPL18	-0.0199209	1
ID2	0.02060094	1
OST4	-0.0886735	1
NOP53	-0.0181293	1
EIF1AX	0.02580248	1
SLC25A6	-0.0410395	1
H2AFY	-0.1855225	1
MT-ND5	-0.044906	1
RPS19	-0.064991	1
RPL35	-0.0259534	1



RSL24D1	-0.0287695	1
UBA52	-0.0234031	1
EEF1B2	-0.0748628	1
RPS18	-0.0547155	1
NDUFA4	0.05027671	1
BTF3	-0.02879	1
RPS6	-0.0370153	1
ANP32B	-0.0461142	1
ENO1	-0.0284091	1
MT-CO1	0.00344187	1
HINT1	-0.0073061	1

**ILs after standard culture versus pre-culture (reference). Only genes expressed in >10%**





































































































































































































































































































































































































































































































**% of single cells are reported. Log2 Fold Change (FC) and FDR-adjusted p-value.**

**Supplementary Table 11. Differential gene expression averaged across 500 progenitor**

<b>Gene</b>	<b>log2FC</b>	<b>FDR q-value</b>
ANXA1	-2.3375846	0
MYADM	-2.8060444	0
TAGLN2	-1.9334824	0
VIM	-3.4069547	0
TSC22D3	-2.8462124	2.77974178057077e-318
LMNA	-3.6404171	6.02E-308
CRIP1	-3.8948268	2.00E-286
RGCC	-3.2919423	1.84E-250
EMP3	-1.8746542	3.26E-216
ADGRE5	-1.7790391	4.78E-213
ATP2B1	-1.9134165	2.81E-211
CD99	-1.4483342	6.52E-176
EMP1	-1.8965051	1.51E-162
UBC	-1.1812184	2.12E-161
LRRFIP1	-1.3110344	1.00E-160
IRF1	-1.5670636	2.34E-156
TGFB1	-1.2590533	2.40E-156
TUBA1A	-1.8150254	2.47E-156
EGR1	1.4080353	2.83E-148
S100A11	-1.8170291	9.76E-146
SAT1	-1.5612057	9.75E-140
UCP2	-1.4462797	2.12E-139
CLIC1	-0.9032945	1.87E-138
ANGPT1	1.4088588	3.38E-137
TUBB4B	-1.3572877	3.30E-136
DNAJB6	-1.1722718	1.26E-135
IDS	-1.2086669	1.05E-128
CD44	-1.121522	3.12E-127
EIF1	-0.7630081	9.35E-124
RARA	-0.9502257	3.64E-120
PLCG2	1.0773338	2.43E-118
MYC	1.3047563	1.45E-114
RAB11FIP1	-1.1289048	1.06E-113
ITGA5	-1.0911463	4.75E-113
TNFRSF12A	-0.9242382	1.25E-112
RUNX3	-1.2366208	2.79E-112
AHNAK	-1.4763885	6.31E-111
MAP2K3	-1.0552356	4.56E-109
MIDN	-1.0976542	1.78E-108
TIPARP	-1.2088022	9.93E-108
HES1	-1.2048366	2.04E-106
CRIP2	-0.7447854	2.19E-105
AC020916.1	-1.4169928	1.54E-103
PER1	-0.8352433	2.45E-102
MYL6	-0.8125559	2.70E-102
RELB	-0.8180123	3.13E-101
RASL10A	-0.6792563	2.60E-100

TUBB6	-0.9245059	4.68E-100
RTN4	-0.9604063	1.38E-98
HSPA5	-1.8358802	1.43E-97
CXXC5	-1.0838766	2.11E-97
RALGDS	-1.0280196	2.02E-94
RAP1B	-0.9034915	3.04E-93
AKAP13	-0.9864108	3.85E-93
KMT2E	-0.8690247	1.51E-91
SERBP1	0.7647731	1.90E-89
GABPB1-AS	1.0452194	2.63E-89
ZBTB7A	-0.9680911	1.34E-88
CREB5	-0.9505609	2.01E-88
RPS27	0.4148093	6.83E-88
TMSB10	-0.7329173	8.06E-88
RBM38	-0.8145607	4.06E-86
SLC40A1	0.9754483	2.11E-85
TPSAB1	1.3237574	2.15E-85
SKIL	-0.871665	6.27E-85
CDKN1A	-0.7174621	1.82E-84
PHLDA2	-0.7528447	1.06E-83
MGST1	1.086087	2.94E-83
SH3BGRL3	-0.7578811	3.61E-83
DSTN	-0.8899183	1.89E-82
PRXL2C	-0.8148852	1.13E-81
KCTD9	-0.9431098	1.74E-81
FSCN1	-0.7832123	1.94E-81
GNA15	-0.7784873	2.42E-81
PLK3	-0.8303839	3.21E-81
NFATC1	-0.7414664	4.40E-80
PLP2	-0.8008794	8.13E-80
GPR183	-1.1209152	3.31E-79
EFHD2	-0.8720996	3.69E-79
FLT3	1.0137087	4.33E-79
DDIT4	-0.8930427	6.91E-79
FYB1	0.8234275	4.22E-78
RHOG	-0.7679749	2.27E-77
H1FX	-1.4189585	2.04E-74
LARS	0.7769379	2.14E-74
ARID4B	-0.8675474	4.61E-74
FTH1	-0.8614378	6.69E-74
CALM1	-0.89153	9.37E-74
URI1	0.7396917	3.01E-73
MTURN	-0.7854517	2.69E-72
PDLIM1	-0.6918546	3.65E-72
KLF13	-0.8309398	5.95E-72
ARF6	-0.7281482	6.56E-72
JUND	-0.870247	1.31E-71
GLIPR2	-0.7445711	2.69E-71
NCL	0.8140783	3.14E-71
RPS29	0.4217363	3.66E-71

CTSC	0.769119	1.13E-70
NINJ1	-0.8286644	2.94E-70
RPS17	0.6291208	4.73E-70
SLC9A3R1	-0.880831	6.31E-70
EXOSC5	0.4991194	6.99E-70
PPP1R15A	-0.8623278	1.29E-69
PLEC	-0.7650252	2.69E-69
RASGEF1B	-0.6399277	3.83E-69
ELMSAN1	-0.8180367	8.56E-69
RHOA	-0.7152543	9.04E-69
ADAM17	-0.8321232	2.90E-68
MT-ND6	0.8328146	4.36E-68
NAP1L1	0.6942548	7.12E-68
TRA2B	0.7431242	8.16E-68
RILPL2	-0.7280735	1.02E-67
HIC1	-0.4801841	1.19E-67
SAMHD1	-0.5561217	1.31E-67
TNFSF13B	0.7386027	3.37E-67
LINC02470	0.5493023	1.09E-66
SNHG6	0.5946499	2.51E-66
S100A10	-1.1342465	4.20E-66
YWHAZ	-0.8344214	7.69E-66
RGS18	0.6505081	8.56E-66
PPP1CB	-0.7346874	1.34E-65
HSP90AB1	0.5774752	2.15E-65
SQSTM1	-0.8276299	2.69E-65
SLC16A3	-0.760693	8.38E-65
HIPK1	-0.7511448	9.53E-65
CIRBP	-0.6498825	1.20E-64
LGALS1	-1.6152859	2.18E-64
NUCB2	0.7411786	2.26E-64
CITED2	0.7506561	5.02E-64
IL1B	0.6108414	8.06E-64
MT-ND3	0.5625418	8.15E-64
SYNJ2	-0.8020373	1.01E-63
CDC42	-0.5961551	1.35E-63
RSL1D1	0.676936	1.36E-63
C16orf54	-0.693213	1.53E-63
HSPD1	0.8049305	1.94E-63
CTNNB1	-0.7862111	2.08E-63
CD74	-0.8299169	1.93E-62
FOS	1.7253516	3.02E-62
BCL3	-0.6176758	3.27E-62
MYB	0.7631585	4.92E-62
TPPP	-0.4144221	1.24E-61
NACA	0.4265483	1.78E-61
WTAP	-0.7029793	2.47E-61
SEPTIN11	-0.7584018	2.75E-61
HSPE1	0.7400543	3.96E-61
EZR	-0.8252969	6.32E-61

RPL23	0.5565163	9.15E-61
UBB	-0.6368248	1.01E-60
PPIL4	-0.6866952	1.04E-60
RAC1	-0.5814325	1.04E-60
AL034397.3	0.6876035	1.54E-60
TREM1	-0.7461672	3.45E-60
MAT2A	0.691087	6.06E-60
CSNK1A1	-0.6472702	6.95E-60
NAIP	0.4795289	1.68E-59
PRKDC	0.7490084	2.30E-59
MAP7D1	-0.6579252	2.33E-59
SRSF7	0.8146123	2.74E-59
FBXO34	-0.7228079	3.52E-59
ID1	-1.4518007	4.51E-59
RELL1	-0.6900161	5.26E-59
SGMS2	-0.5088485	1.06E-58
BHLHE40	-0.7521365	3.09E-58
PRR7	-0.5902877	2.15E-57
BCO2	-0.4949324	7.10E-57
KNOP1	0.5388451	7.16E-57
CD69	0.7925926	7.78E-57
KLF10	-0.7750911	8.33E-56
KLF3	-0.7688005	8.92E-56
GUCY1A1	0.8399423	1.27E-55
TSC22D1	-0.9992725	1.67E-55
PHF20	-0.7070596	2.56E-55
CYTH1	-0.714906	9.51E-55
TES	-0.7359663	9.51E-55
UBE2B	-0.6184324	1.01E-54
SARAF	-0.5948516	3.10E-54
ARID5A	-0.5980679	3.11E-54
PIM3	-0.7034108	3.54E-54
MPC2	-0.5922254	4.69E-54
RPL38	0.3892273	8.56E-54
PA2G4	0.705504	1.12E-53
KRAS	-0.6880215	1.40E-53
SMC4	0.8153522	1.87E-53
SH2B3	-0.5788013	5.42E-53
NDUFB1	0.5518209	6.31E-53
ARL4A	-0.7156848	7.64E-53
CFL1	-0.5831536	1.78E-52
DDAH2	-0.7207221	2.46E-52
UPP1	-0.6458077	2.59E-52
SRSF3	0.6365869	9.95E-52
G3BP2	-0.6379984	3.30E-51
CAPZA2	-0.6842469	3.42E-51
GPR132	-0.3693264	3.87E-51
KIT	0.6593851	4.41E-51
SPART	0.5780663	6.56E-51
CDKN2D	-0.5647668	1.31E-50

NOTCH1	-0.6077643	1.36E-50
LSP1	-0.7275904	1.69E-50
MBP	-0.6240107	2.46E-50
ICAM3	-0.6248732	2.88E-50
VAMP8	0.5308186	3.66E-50
ATP6V0C	-0.6077886	6.96E-50
ARGLU1	0.64963	7.03E-50
HIST1H4C	0.6885248	9.54E-50
ODF3L1	-0.3286139	1.31E-49
SLC35E4	-0.5338172	3.39E-49
TSPAN2	-0.4020165	4.35E-49
VSIR	-0.7551198	6.02E-49
CSRNP1	-0.4984515	7.21E-49
KPNA4	-0.5623653	7.56E-49
MAN1A1	0.5253519	8.49E-49
KDM6B	-0.7210531	1.23E-48
SAP18	-0.6208584	1.72E-48
CNBP	0.4960513	2.58E-48
LYN	-0.664876	3.83E-48
CD81	0.5694394	4.70E-48
DBI	-0.6873553	5.27E-48
BAIAP2	-0.487717	6.22E-48
JMJD1C	-0.6935987	1.41E-47
SIK3	-0.5901243	1.47E-47
IER3	-0.7125024	2.14E-47
AGPAT4	-0.5362766	2.61E-47
PNP	-0.6890413	3.10E-47
BPTF	0.6601391	3.37E-47
CYTH4	-0.6137942	3.41E-47
ORAI1	-0.5627058	3.47E-47
ZSCAN18	-0.5418669	3.48E-47
SORL1	0.5818594	6.11E-47
ANTXR2	-0.6214411	7.18E-47
IGLL1	1.0592249	8.24E-47
HMGN1	0.483043	1.30E-46
ZBTB43	-0.5959507	1.85E-46
SMAD7	-0.4343352	2.08E-46
AC245060.5	0.635308	2.11E-46
ZFAS1	0.6328955	3.30E-46
DENND4A	-0.5889258	5.39E-46
RGS19	-0.6468079	5.99E-46
ABCA1	-0.3850176	1.92E-45
PDGFA	-0.3855108	2.02E-45
DYNLT1	-0.525485	2.21E-45
MBOAT7	-0.6093199	3.31E-45
LUC7L3	0.5494009	3.57E-45
NPTX2	-0.4220788	3.80E-45
CA5B	-0.4670887	4.01E-45
IFT57	-0.5271033	4.25E-45
GAS2L1	-0.3297031	7.15E-45

MOB3A	-0.5207653	1.23E-44
SUCNR1	0.9348603	1.99E-44
TACC1	-0.6530757	2.70E-44
TMOD3	-0.5756527	2.78E-44
YPEL5	-0.8023338	3.37E-44
HIF1A	-0.699186	3.53E-44
VMP1	-0.755802	3.88E-44
CD302	0.5718772	1.14E-43
MTSS1	-0.3884714	1.24E-43
SRSF5	0.5584836	1.44E-43
RARA-AS1	-0.3752558	1.58E-43
PPP1R18	-0.4920837	1.72E-43
CD82	-0.6218657	1.89E-43
CMTM3	-0.5960847	3.50E-43
CMSS1	0.4330819	6.05E-43
TMBIM4	0.5583937	6.48E-43
NAMPT	-0.7123379	7.39E-43
DENND6B	-0.5192026	1.85E-42
R3HDM4	-0.5630016	2.13E-42
LRRFIP2	-0.6058263	2.61E-42
LFNG	-0.4474044	3.46E-42
TXN	-0.5770073	4.36E-42
RPS11	0.3771038	6.84E-42
TTC1	0.4037497	7.09E-42
PLEKHO1	-0.5914082	7.21E-42
H3F3A	-0.3697933	7.36E-42
PHLDA1	-0.6492804	8.53E-42
CD9	-0.6701429	8.55E-42
ARL4C	-0.4732219	1.27E-41
IGFBP2	0.6256122	1.49E-41
MIR22HG	-0.3995892	1.52E-41
IFFO2	-0.4692469	1.66E-41
APBB1IP	0.4692767	1.72E-41
CSNK1D	-0.5216966	2.48E-41
NOL8	0.4964878	3.09E-41
KLF6	-0.8423068	3.16E-41
TARBP1	0.5478536	3.80E-41
TRAF4	-0.5047161	3.81E-41
LINC01226	0.3313578	4.87E-41
ARHGDI1	-0.5202408	5.58E-41
TTC3	0.5874334	5.59E-41
HSD17B4	0.4407155	8.07E-41
AGO2	-0.5428538	9.87E-41
NFKBIA	-1.0302803	1.77E-40
IQGAP1	-0.5223736	1.85E-40
ETF1	-0.6363113	1.89E-40
DPYSL3	-0.2703327	2.14E-40
LINC01268	0.4363587	2.35E-40
TPM4	-0.6541821	2.54E-40
TPPP3	-0.3329547	6.06E-40



SERPINE1	-0.3938265	1.07E-39
ARL8A	-0.4947702	1.37E-39
TASOR	0.4046515	1.40E-39
STOML3	-0.2589197	1.84E-39
NFE2L2	-0.4922044	2.29E-39
MAP3K8	-0.5802278	3.07E-39
UBE2H	-0.5532945	4.19E-39
PPP1R16B	-0.2507074	5.43E-39
LRPPRC	0.4630461	5.50E-39
SEC61B	-0.4817619	9.94E-39
SLC20A1	-0.583456	1.13E-38
ARL2	0.4362942	1.20E-38
PNISR	0.5366203	1.67E-38
RPL37	0.3040759	2.49E-38
CYTIP	-0.5332449	2.52E-38
RAD50	0.5171434	3.31E-38
VAPA	-0.5576836	3.34E-38
HERPUD1	-0.5087419	3.89E-38
DNPH1	0.4577625	4.01E-38
TMX4	-0.7296808	6.72E-38
MYL12B	-0.4590654	7.63E-38
TNFRSF1A	-0.4818092	8.60E-38
FMNL1	-0.5296618	9.31E-38
PTPN6	-0.5940786	9.60E-38
UBE2D1	-0.5116769	1.27E-37
RCSD1	0.5138097	1.49E-37
MRPS34	0.5094458	2.27E-37
REXO2	0.4197182	3.60E-37
CHCHD2	-0.4481873	4.52E-37
ACTG1	-0.4514185	4.53E-37
LST1	-0.558072	5.20E-37
CFAP126	-0.2016711	6.97E-37
LDHB	0.4925257	7.07E-37
CD84	0.4651556	8.41E-37
SET	0.4700029	9.39E-37
MAFF	-0.5515908	1.76E-36
NPDC1	-0.4636966	1.81E-36
CDC42SE1	-0.567147	3.00E-36
ACTN1	0.4413068	3.28E-36
MCL1	-0.6960384	5.42E-36
H3F3B	-0.7132198	5.55E-36
MARCKSL1	-0.5994089	8.46E-36
YWHAQ	-0.4941178	8.69E-36
MTIF3	0.547542	9.48E-36
ZFP36	-0.8025204	1.04E-35
PYGL	0.4817426	1.32E-35
GAPT	0.5213686	1.74E-35
PSTPIP2	0.4871112	1.81E-35
HSP90B1	-0.9279393	2.32E-35
TNFAIP2	-0.6430352	2.32E-35

SYAP1	-0.8175588	2.38E-35
IL1RAP	-0.5659633	2.53E-35
THEMIS2	-0.5169115	3.21E-35
HIST2H2BE	-0.5126519	3.53E-35
TENT5A	0.4173048	4.40E-35
MT-CYB	0.4187455	4.72E-35
ARF4	-0.4743567	4.73E-35
ZMYM4	0.4181813	4.87E-35
PTP4A3	-0.4382202	5.41E-35
SFXN3	-0.4349944	5.96E-35
ATRX	0.5699843	6.02E-35
RNF19B	-0.3470818	7.79E-35
MIS18BP1	0.5468829	1.10E-34
HES4	-0.5173576	1.35E-34
RPL31	0.3294293	1.47E-34
ABRACL	0.4305895	1.54E-34
FDX1	-0.4625654	1.66E-34
SERTAD1	-0.4641028	2.75E-34
GPATCH2	-0.4610001	3.25E-34
AL355922.1	0.3269544	3.26E-34
SPNS2	-0.4572435	3.32E-34
PM20D2	0.3489306	4.28E-34
SRSF6	0.5074028	4.45E-34
SUB1	-0.4585105	6.77E-34
TFG	-0.4586121	7.59E-34
RNASE2	0.6309031	1.05E-33
S100A6	-0.840855	1.21E-33
BLVRB	0.4367964	1.38E-33
RPAP2	0.5562298	1.54E-33
LDHA	-0.546952	1.60E-33
TRIM73	0.3863822	1.89E-33
RNASEH2B	0.6327498	2.41E-33
NARS	0.4755526	2.53E-33
FUS	0.5113834	2.54E-33
CMTM6	-0.4841485	2.64E-33
PRKAG2-AS	0.2337129	2.97E-33
PDCD11	0.3383597	3.00E-33
LINC00342	0.5418145	3.22E-33
MAP1LC3B	-0.5662637	3.22E-33
SNX2	-0.5570395	3.52E-33
OMA1	0.2188811	3.64E-33
SH3BP5	-0.3082628	4.22E-33
GNAI3	-0.5241011	4.82E-33
PRDX3	0.4401641	4.91E-33
FAM216A	0.3776377	5.63E-33
CYTL1	0.8360609	6.42E-33
AC007384.1	-0.3467484	6.65E-33
CHMP6	-0.3455898	7.05E-33
PER2	-0.4423763	9.28E-33
GTF2I	0.5269173	1.12E-32

RSRC2	-0.5368078	1.48E-32
EHD1	-0.4379772	1.49E-32
UTP3	0.3767315	1.70E-32
ACOT7	-0.3129868	1.73E-32
PACSIN2	-0.4366821	2.09E-32
TSG101	-0.4411351	2.25E-32
CLEC12A	0.3442791	2.44E-32
YWHAH	-0.5392277	2.63E-32
BCL2	0.37034	2.90E-32
HLA-B	-0.4646339	4.10E-32
CBX3	0.4284236	4.73E-32
ISOC2	0.3254437	4.86E-32
LEPROTL1	-0.4672052	5.19E-32
SLC39A3	0.4788312	6.32E-32
CD83	-0.4297129	6.53E-32
NR3C1	-0.4779215	6.71E-32
SPIN4	0.4338707	8.77E-32
PTGDS	0.8703575	1.03E-31
SUPT16H	0.4904348	1.87E-31
NAA38	0.416509	1.90E-31
GCSH	0.4030037	1.94E-31
MSI2	0.5698156	2.02E-31
NOP56	0.5826406	2.51E-31
GPATCH11	-0.468114	2.59E-31
MRPL33	0.4266489	2.90E-31
GNAI2	-0.4855576	3.42E-31
PABPC1	0.4220794	3.80E-31
C1QBP	0.4851443	4.19E-31
RIOK3	-0.4870801	4.76E-31
BCL7B	-0.4183492	6.61E-31
RHOF	-0.4850367	6.61E-31
SRM	0.5217015	8.95E-31
TRIM8	-0.4917448	8.97E-31
CCT5	0.4538808	1.15E-30
PARP4	0.3920982	1.44E-30
ARG2	-0.2553397	1.68E-30
VASP	-0.4865699	1.82E-30
NRDC	0.4463067	2.05E-30
FAM214B	-0.3230689	2.41E-30
TSEN34	-0.4138541	3.77E-30
PPP2CA	-0.4058733	4.36E-30
FIRRE	0.2836104	4.52E-30
MRPL3	0.4020159	4.61E-30
MCRIP2	0.351326	6.62E-30
ALOX5AP	-0.5452218	6.80E-30
UBE2D2	-0.4162559	7.32E-30
RFX2	-0.4163138	7.46E-30
IFI16	0.6099459	7.83E-30
GPR174	0.3533733	8.01E-30
GAPDH	-0.3211698	9.60E-30

H19	-0.7186365	1.08E-29
HNRNPUL1	-0.4987217	1.10E-29
MTMR6	-0.3674691	1.13E-29
ZNF487	-0.2999361	1.31E-29
HERC2	0.3853607	1.77E-29
ANXA11	-0.398664	1.89E-29
YTHDC1	0.3850192	2.16E-29
LDLR	-0.3339928	2.48E-29
WDR3	0.2504053	2.55E-29
HNRNPA1	-0.4072769	2.67E-29
PFKFB3	-0.3498834	3.28E-29
NPC2	0.4063589	4.26E-29
NEDD8	0.3873428	4.72E-29
ELF1	-0.5173013	6.27E-29
TMEM14C	0.3997617	8.17E-29
RHOC	-0.4354427	9.91E-29
CASP8	-0.483866	1.02E-28
UBTF	0.3813886	1.05E-28
CHD2	-0.551567	1.13E-28
RBM3	-0.419865	1.26E-28
DAAM1	-0.5089886	1.29E-28
RUFY1	0.3928805	1.32E-28
WDFY2	-0.6144689	1.40E-28
NREP	0.4225223	1.44E-28
VEGFB	0.3162413	1.47E-28
MPHOSPH8	0.4034055	1.54E-28
LIMD2	-0.466651	1.59E-28
TMEM161B	0.4935299	1.80E-28
MAPK1IP1L	-0.4563797	2.10E-28
UQCR10	0.3914008	2.22E-28
CD53	-0.4325378	2.26E-28
HNRNPAB	0.5298004	2.63E-28
PYURF	0.4043256	2.73E-28
RBM8A	-0.389449	2.97E-28
CDK6	0.4285245	3.56E-28
ARL6IP5	0.5473924	4.18E-28
CST7	0.5428958	4.37E-28
U2SURP	0.4476832	5.01E-28
RRAGC	-0.4258962	5.06E-28
RBM28	0.3921197	5.07E-28
PNMA1	-0.3113951	6.10E-28
EPRS	0.42992	6.38E-28
ATP8B4	0.4874078	6.67E-28
PDCD5	0.4396378	6.84E-28
RNF11	-0.3630342	7.03E-28
OPN3	0.2485311	7.30E-28
UBE2N	-0.4316951	8.50E-28
LAPTM5	-0.4853274	1.03E-27
PARP1	0.4437509	1.07E-27
IFI30	-0.6519375	1.12E-27

FAM122C	-0.3486064	1.22E-27
TRMT10C	0.3934618	1.33E-27
INKA2	-0.2911967	1.33E-27
PRKD2	-0.3399275	1.35E-27
GAS5	0.4593563	1.52E-27
RPL36	0.2490545	1.59E-27
MAPK1	-0.425922	1.64E-27
PLEKHF1	-0.3251175	1.64E-27
CD300A	-0.3897043	1.67E-27
MAP1S	-0.4238352	1.80E-27
EDEM3	0.3385141	1.84E-27
LUZP1	-0.4816989	1.88E-27
HOXB2	-0.5177517	2.25E-27
CYLD	-0.453583	2.26E-27
PPP4R3B	0.4312014	2.89E-27
ALG8	0.1897058	2.98E-27
DAB2	0.2605743	3.70E-27
MTAP	0.3206512	4.53E-27
RPL35A	0.2578472	5.24E-27
DOK2	-0.3961579	5.81E-27
GPATCH4	0.3622565	6.05E-27
UBE2D3	-0.3700903	7.61E-27
PPP6R1	-0.3981321	7.66E-27
CITED4	0.2357935	8.52E-27
ELL2	-0.3606303	8.98E-27
ENSA	-0.4024998	9.23E-27
YBX3	-0.594525	1.19E-26
TMPO	0.4413042	1.28E-26
SPI1	-0.5094172	1.39E-26
OSGIN2	-0.3931956	1.54E-26
NUCKS1	0.4782493	1.56E-26
TMCC1-AS1	0.3224042	1.63E-26
RAB14	-0.4296358	1.67E-26
MT-CO3	0.3002419	2.47E-26
MLF2	-0.2913322	2.53E-26
DUSP14	-0.4091606	2.66E-26
RRP12	-0.4740455	2.80E-26
USP48	0.3556346	2.86E-26
PRKCQ-AS1	0.3008669	3.12E-26
N4BP3	-0.2850269	3.20E-26
EHMT2	0.2936873	3.39E-26
CD58	-0.4423505	3.59E-26
PUS7L	0.2577772	3.65E-26
EXOSC6	0.337063	3.68E-26
TWF2	-0.467065	3.92E-26
GGCT	0.433065	4.29E-26
AC104083.1	0.2298882	5.14E-26
CDC42EP3	-0.479515	5.71E-26
RUVBL1	0.3459339	6.16E-26
HTR1F	0.2420243	6.32E-26

APRT	0.3745146	6.35E-26
CFP	-0.3482519	8.25E-26
AGPAT5	0.3777904	9.90E-26
MKNK2	-0.4170284	1.02E-25
WDR12	0.3290065	1.02E-25
BZW2	0.4159864	1.03E-25
RIPOR2	-0.443415	1.10E-25
PAK2	0.3527014	1.22E-25
RPL13A	0.2397577	1.28E-25
AC007952.4	0.4587509	1.41E-25
ST13	0.3802106	1.56E-25
JUP	-0.4043263	1.75E-25
M6PR	0.387853	1.89E-25
IRF8	-0.3640664	1.92E-25
CEP290	0.3955645	2.02E-25
MFSD1	0.3868786	2.22E-25
RPL37A	0.2744683	2.64E-25
RPS27L	0.4456116	2.67E-25
SKAP2	0.508441	2.99E-25
LRRC8C	-0.3996379	3.12E-25
PTPRC	-0.4872549	3.46E-25
RBM14	-0.4296195	3.77E-25
TOP2B	0.5177091	4.23E-25
ZMIZ1	-0.457919	4.36E-25
DDX46	0.4155784	4.62E-25
DLD	-0.4701308	4.78E-25
ARHGAP22	0.2987403	5.15E-25
SMAD3	-0.3877674	5.44E-25
VPS37B	-0.3986036	5.71E-25
RPS9	-0.2419936	5.84E-25
MALT1	-0.3915809	7.17E-25
ACADM	0.413549	7.20E-25
RABAC1	-0.3641373	9.77E-25
CBX1	0.3217032	1.10E-24
RPL34	0.2460945	1.12E-24
CYTOR	-0.4735267	1.21E-24
SNAI3	-0.4524734	1.39E-24
MT-ATP6	0.2741588	1.57E-24
MYCBP2	0.4532995	1.70E-24
OCIAD1	0.3798974	1.82E-24
THUMP3-A	-0.358573	1.93E-24
NEU4	-0.2445856	2.17E-24
MRPS12	0.3611981	2.31E-24
RPS28	0.2264395	2.81E-24
TMEM63A	-0.3782149	3.10E-24
TLE5	-0.4351137	3.21E-24
KANK1	0.190365	3.43E-24
RNF10	-0.3737844	3.78E-24
APEX1	0.4226282	3.90E-24
MYCN	0.2758208	4.15E-24

FHL3	-0.3598817	4.18E-24
FN1	0.1256373	4.24E-24
CHD1	-0.559504	4.28E-24
PCF11	0.4403186	4.47E-24
SNRPE	0.3887782	4.63E-24
NOLC1	0.3704232	4.80E-24
CNTRL	0.4100993	4.87E-24
OSER1	-0.336417	5.14E-24
PTPRA	0.3543579	5.18E-24
NPM1	0.3400377	5.33E-24
MFSD6	-0.3895309	5.94E-24
TTC17	0.3907198	6.21E-24
LYAR	0.2784104	6.30E-24
POLR3K	0.2401213	6.94E-24
FCER1G	-0.510657	7.92E-24
CYBA	-0.3783595	8.10E-24
RBM12B	0.331219	8.41E-24
PLEKHO2	-0.3781697	9.28E-24
MRPS26	0.3669248	1.02E-23
ARHGEF7	-0.3304538	1.08E-23
SMC2	0.3435904	1.22E-23
TRAF5	-0.3780219	1.22E-23
C11orf68	-0.26845	1.34E-23
FRAT2	0.2439079	1.39E-23
CAT	0.4467759	1.40E-23
SERF2	-0.2736622	1.41E-23
ICAM1	-0.2627676	1.51E-23
VDAC3	0.3599857	1.53E-23
STRAP	-0.3871868	1.75E-23
RIPK2	-0.390782	1.77E-23
MGST2	0.3910179	1.92E-23
EMC3	-0.3915373	2.11E-23
LINC-PINT	-0.4424347	2.17E-23
XAF1	0.3163798	2.34E-23
TPM3	-0.3951619	2.90E-23
NCOA3	-0.4786993	3.06E-23
FAM217B	0.3011496	3.09E-23
H2AFJ	-0.4449077	3.33E-23
TFAP4	0.1608797	3.47E-23
SH2D2A	-0.2408885	3.49E-23
RPL36AL	-0.3015458	3.66E-23
RPL30	0.2085428	3.67E-23
FABP5	0.5013611	3.79E-23
STK24	-0.3675779	3.80E-23
EIF5	-0.478268	3.82E-23
HMGB1	0.4267276	4.06E-23
SLC25A19	0.2002508	4.13E-23
DUSP23	0.3067648	4.21E-23
N4BP2	-0.4709413	4.65E-23
MIER1	-0.4270949	4.79E-23

RPS20	0.3272493	5.16E-23
PIGM	0.2666526	5.20E-23
HIST1H1C	-0.8248726	5.35E-23
MAP7	0.385792	5.60E-23
STK40	-0.3195348	5.72E-23
FAM83G	-0.205696	6.05E-23
IGSF10	0.3203951	6.55E-23
SOX4	0.7791989	6.78E-23
TFPI	-0.4229401	6.82E-23
ERF	-0.3653253	6.91E-23
CHST12	0.3828709	7.07E-23
SLC39A4	0.2614693	7.25E-23
ARHGAP27	-0.4353999	7.30E-23
BOD1L1	0.4815339	7.30E-23
DDX1	0.3243626	7.48E-23
YRDC	0.2284378	7.64E-23
PDCD10	-0.4145055	7.90E-23
TCF7L2	-0.3708399	8.02E-23
TBCA	0.3528546	8.18E-23
PSMD12	-0.4183853	8.19E-23
KRT10	0.3702136	8.39E-23
NOP10	-0.3679934	8.99E-23
ICOSLG	-0.2515752	9.54E-23
EBPL	0.379804	1.17E-22
LYRM7	0.361022	1.20E-22
USP14	-0.4132619	1.24E-22
PTPN1	-0.4528043	1.44E-22
NUFIP2	0.4333327	1.68E-22
GFOD1	-0.3791466	1.70E-22
CAPNS1	-0.4042827	1.99E-22
FTX	0.4899256	2.02E-22
PPP6R3	-0.296617	2.08E-22
FHL1	-0.2714512	2.97E-22
ARID3A	-0.4789802	3.02E-22
PTPRE	-0.4398522	3.04E-22
HLA-A	-0.3737763	3.16E-22
DMAC1	0.3808127	3.56E-22
ST6GALNAC	-0.3176061	3.69E-22
FOSL2	-0.4562634	3.70E-22
CHD4	0.3896321	3.85E-22
RPL12	0.2516844	4.08E-22
C11orf54	0.2946912	4.20E-22
CDC42EP2	-0.1447938	4.45E-22
GTF2A2	0.3789462	4.85E-22
HMGA1	-0.4583345	5.36E-22
MRPL34	0.3968592	5.74E-22
COMMD6	0.3862432	6.32E-22
ATF3	-0.5274778	6.36E-22
EIF4A2	0.395858	6.75E-22
FAM177A1	-0.3572201	7.32E-22



ATM	0.3767314	7.45E-22
SLC9A3R2	-0.4889479	8.54E-22
AIMP1	0.3673205	8.56E-22
TMA16	0.3709976	9.83E-22
FKBP4	0.3486638	1.07E-21
SLBP	-0.3154728	1.11E-21
SELENOP	0.5083611	1.17E-21
IQCH-AS1	0.2002427	1.27E-21
PDXK	-0.3333023	1.38E-21
CSTB	-0.3816028	1.43E-21
CEP63	0.3216339	1.46E-21
CELF1	-0.4278301	1.48E-21
CNOT2	-0.3065695	1.61E-21
ZBTB44	0.3547212	1.69E-21
KRCC1	0.4101959	1.78E-21
ERG	0.4063182	1.83E-21
C16orf74	0.2025817	2.03E-21
NDUFB3	0.3116833	2.09E-21
CCDC12	-0.3123557	2.29E-21
ACIN1	0.3482844	2.30E-21
Z97192.3	0.2718019	2.37E-21
COA6	0.2904616	2.39E-21
CEBPG	-0.3583098	2.41E-21
IRAK2	-0.1486419	2.72E-21
STK17A	-0.3553945	2.85E-21
ARRDC2	-0.3399825	3.11E-21
ST8SIA6	0.3293706	3.17E-21
TMEM14B	0.3314447	3.21E-21
SPAG9	-0.4126671	3.40E-21
NUDCD1	0.2305308	3.45E-21
INSIG1	-0.459844	3.64E-21
ENDOG	0.380108	3.70E-21
ZRANB2	0.3961963	3.72E-21
FOSL1	-0.2427579	3.78E-21
HDDC2	0.2660292	3.79E-21
POP5	0.2808732	4.87E-21
TREML2	-0.2000654	5.08E-21
NME1	0.5013788	5.75E-21
CFAP97	0.3569079	5.79E-21
KCNN4	-0.3652151	5.83E-21
C6orf226	-0.2832212	6.47E-21
ITM2C	-0.4767116	6.58E-21
PRMT2	-0.3532179	8.35E-21
MSRB3	0.3889059	8.62E-21
IP6K2	-0.3237663	8.83E-21
HLTF	0.3180711	9.74E-21
CCDC85B	0.4250601	1.04E-20
WASF2	-0.3444825	1.05E-20
ZFPM1	0.2270353	1.10E-20
NTPCR	0.2356354	1.14E-20

LMAN1	0.2886224	1.22E-20
SDCBP	-0.4935934	1.24E-20
PAQR8	-0.3270942	1.27E-20
TMCO1	0.387972	1.33E-20
EBNA1BP2	0.3266279	1.44E-20
HBP1	-0.3573504	1.45E-20
ZNF286A	0.1700283	1.45E-20
DDX18	0.3780656	1.47E-20
SLC44A1	0.3031831	1.56E-20
ALDH5A1	0.2117262	1.73E-20
RIN3	-0.3456474	1.76E-20
CENPJ	0.2921682	1.80E-20
DEPTOR	0.1746712	1.97E-20
RNF166	-0.430477	1.98E-20
HP1BP3	0.4047067	2.14E-20
SPON2	-0.3313726	2.34E-20
ZNF706	-0.3238128	2.41E-20
CORO1C	-0.3647115	2.57E-20
MEX3B	0.2292399	2.67E-20
HPF1	0.2566697	2.73E-20
DCTN6	-0.377484	2.88E-20
ARID3B	-0.3357898	2.94E-20
NXT2	0.2285857	3.10E-20
ARF1	-0.3720396	3.16E-20
NDUFAF2	0.2853167	3.28E-20
ZNRF1	0.3586576	3.29E-20
IRF2BPL	-0.3840874	3.87E-20
PSMB8-AS1	0.2445635	3.91E-20
PTER	0.1887132	4.07E-20
IL4I1	-0.1588595	4.25E-20
PLAUR	-0.3507594	4.37E-20
ZNF804A	0.2035091	4.63E-20
CREM	-0.2892761	4.65E-20
LMNB1	0.3288285	4.71E-20
TM7SF3	0.4529408	5.05E-20
STX1A	-0.1486448	5.11E-20
EEF1A1	-0.2377427	5.27E-20
IVNS1ABP	-0.302702	5.30E-20
SERINC1	-0.3847555	5.78E-20
CD164	0.5649357	5.78E-20
TRIM25	0.2206703	5.90E-20
MSRB2	0.3136392	6.16E-20
GUCY1B1	0.2233195	6.23E-20
RXYLT1	0.2874018	6.77E-20
GALNT1	0.3045592	7.40E-20
MRPS33	0.4026617	7.76E-20
CSF1R	0.2115503	7.90E-20
MAPKAPK2	-0.3236897	8.16E-20
AKIRIN2	-0.345272	8.66E-20
ARPP19	-0.3664807	8.67E-20

PPA2	0.3194576	8.86E-20
CKS1B	0.1974897	9.51E-20
RBIS	0.3008234	9.61E-20
HIVEP1	-0.3338444	1.02E-19
DCP1A	-0.3169916	1.04E-19
UBE2V2	0.2655042	1.06E-19
RAB5A	-0.3590012	1.07E-19
APOL4	0.145934	1.12E-19
IDH1	0.3363838	1.26E-19
MDN1	0.332447	1.27E-19
MRPS31	0.2729298	1.29E-19
NFKBID	-0.3613041	1.33E-19
IQGAP2	0.3843312	1.33E-19
DDX10	0.29967	1.37E-19
RHOH	-0.3232676	1.44E-19
CMBL	0.2660367	1.44E-19
HACD3	0.2566404	1.73E-19
PAXIP1-AS1	0.2357775	1.76E-19
SAMD9	0.2753064	1.96E-19
SETDB2	0.321035	1.96E-19
CBR1	0.3155954	2.22E-19
MAP1LC3A	-0.264213	2.33E-19
ID3	-0.2798301	2.37E-19
NR1H2	-0.3202514	2.59E-19
RAB8B	-0.3379146	3.54E-19
MFSD14A	-0.2668074	3.67E-19
EWSR1	-0.3861001	3.70E-19
GGNBP2	-0.3465782	4.10E-19
TMX1	0.3482	4.28E-19
TESC	0.3294924	4.39E-19
ARPC5L	-0.3702926	4.68E-19
NDE1	-0.3530326	5.03E-19
TFEC	0.3727728	5.06E-19
FAM174C	0.284635	5.14E-19
METAP2	0.3438671	5.20E-19
MGAT1	-0.3571149	5.64E-19
SLC43A3	-0.3038141	5.65E-19
MORF4L2	-0.3760059	5.76E-19
ATP5PD	0.3304772	5.83E-19
PRKACB	0.4336884	6.19E-19
MTMR12	-0.2603512	6.54E-19
LRMDA	0.2483863	6.73E-19
EIF3I	-0.3132967	7.13E-19
MCOLN1	0.1469446	7.60E-19
SLC6A6	-0.3356802	8.28E-19
PLCB1	-0.3991311	8.95E-19
ZNF480	0.2335256	9.35E-19
TIMM13	0.3611069	9.98E-19
GADD45B	-0.4539738	1.12E-18
ZNF737	0.2408324	1.28E-18

LRPAP1	0.3732531	1.28E-18
NDUFB10	0.3240295	1.28E-18
METTL5	0.2719683	1.29E-18
ZBTB21	-0.3147465	1.33E-18
SMIM12	-0.252236	1.43E-18
ITSN2	-0.3204479	1.52E-18
ZNF138	0.196127	1.62E-18
PSMA6	-0.3041649	1.63E-18
CRK	-0.2958233	1.70E-18
TOB2	-0.3365098	1.72E-18
FGR	-0.2400005	1.76E-18
ARRB1	0.2413929	2.01E-18
STXBP5	0.356117	2.05E-18
NSA2	0.3539068	2.15E-18
OSBPL1A	0.2613075	2.38E-18
HCG18	0.3888863	2.45E-18
WDR1	-0.3363316	2.50E-18
GAS7	-0.3221601	2.61E-18
PLEKHH3	-0.1841	2.98E-18
RIPOR1	-0.2680471	3.00E-18
MRPL40	0.2270617	3.06E-18
PDIA3	-0.3345087	3.14E-18
SPNS3	-0.4118006	3.26E-18
SMARCC1	0.3788324	3.41E-18
FADD	-0.2577909	3.94E-18
GMFG	0.2788221	4.17E-18
HADHA	0.3446274	4.45E-18
HMGN3	0.2990627	4.52E-18
HAT1	-0.3426658	4.54E-18
ZNF605	0.1745437	4.57E-18
ADGRG6	0.2609946	4.95E-18
ASAH1	0.4259613	5.06E-18
PFN1	-0.4515162	5.10E-18
ACSM3	0.3921876	5.56E-18
USP6NL	-0.3394786	5.85E-18
ZNF891	0.2440662	6.37E-18
DHX33	0.1745686	6.75E-18
ATP2A2	-0.3647974	7.01E-18
TMEM106B	0.294086	7.28E-18
SH3BP2	-0.4219726	8.08E-18
MTIF2	0.2472185	8.16E-18
RNF130	0.3405472	8.25E-18
RGL4	-0.1834243	8.92E-18
UBE2J1	-0.3600694	9.03E-18
PIGF	0.2685368	1.11E-17
PAIP2	-0.3672404	1.13E-17
DNAJB11	-0.2668887	1.17E-17
C1orf56	-0.4204909	1.18E-17
SH3GLB1	-0.3925231	1.29E-17
TOMM5	0.3510053	1.32E-17

DKC1	0.3325311	1.42E-17
LSM2	0.333478	1.45E-17
CDK9	-0.3401041	1.55E-17
NFKB2	-0.2744538	1.55E-17
AC027601.6	-0.3317267	1.58E-17
TUBB2A	-0.1598446	1.59E-17
SLC5A3	-0.4188395	1.60E-17
TNFAIP8L1	-0.235016	1.68E-17
APAF1	0.2370623	1.82E-17
MGA	0.2755897	1.84E-17
TP53	0.2567551	1.87E-17
IST1	-0.3427937	1.87E-17
RPL5	0.2050314	1.88E-17
ETFB	-0.3585218	2.01E-17
NCF4	0.3756405	2.02E-17
SPATA2L	-0.2028305	2.07E-17
ANKLE1	0.1139983	2.22E-17
DDIT3	-0.3319824	2.26E-17
TAPBP	-0.3550463	2.30E-17
REPIN1	-0.321182	2.38E-17
MLH3	0.248683	2.48E-17
PARN	0.1758089	2.54E-17
SGTA	-0.2776564	2.59E-17
TXNDC5	0.2391429	2.60E-17
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AK2	0.3272528	2.67E-17
APOLD1	0.1770496	2.70E-17
DEDD2	-0.3720239	2.81E-17
GRASP	-0.1872928	2.82E-17
LYZ	0.3652751	2.94E-17
GRK3	0.1975886	2.98E-17
C15orf39	-0.3234058	3.19E-17
RIT1	-0.3043854	3.40E-17
RB1CC1	-0.3686699	3.56E-17
TIMMDC1	0.2925588	3.80E-17
ERH	0.3376241	3.92E-17
LRRC8A	-0.3057234	4.07E-17
TOMM7	0.3277133	4.08E-17
DEK	0.3530254	4.11E-17
PDLIM4	-0.1908432	4.22E-17
UQCC2	0.294825	4.33E-17
USP4	-0.3250888	4.50E-17
CYP7B1	0.1809007	4.65E-17
RBBP4	0.3572701	4.68E-17
SUDS3	0.2521929	4.71E-17
ARRDC3	-0.3466379	4.93E-17
RBM17	-0.3115882	5.03E-17
HSPA8	0.4183792	5.07E-17
SRC	-0.217969	5.76E-17
CCL5	-0.5567656	6.15E-17

ENTR1	0.2156918	6.56E-17
TOMM6	0.3572791	6.57E-17
THOC7	0.3350589	7.78E-17
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CFAP36	0.3883647	8.05E-17
PPCDC	-0.2499983	8.10E-17
KIF9	-0.3157065	8.19E-17
MGRN1	-0.2958776	8.21E-17
COL24A1	0.3674742	8.31E-17
ATP5PF	0.3010343	8.63E-17
UNC5B	-0.2668532	8.71E-17
ZNF141	0.2964151	8.86E-17
CYB5A	0.2389748	9.79E-17
CAD	0.1606013	9.94E-17
AL627171.2	0.3474129	1.036E-16
CRTAP	0.319809	1.068E-16
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RC3H1	-0.3767139	1.11E-16
MESP1	0.1192694	1.129E-16
ITGB3BP	0.2342694	1.13E-16
ME2	0.3658673	1.289E-16
PWWP3A	0.2378857	1.319E-16
TMEM131	0.2341205	1.329E-16
NDUFAF8	0.3579435	1.35E-16
ADRB1	0.2442236	1.441E-16
RNF126	-0.3111259	1.489E-16
CLEC2B	-0.4369636	1.528E-16
DUSP18	-0.2676561	1.539E-16
DUSP10	-0.3078919	1.677E-16
CIAO2A	0.2869661	1.704E-16
C11orf74	0.2834003	1.707E-16
PHF14	0.3522155	2.032E-16
FAM102B	-0.2393607	2.068E-16
IMPACT	0.1991677	2.072E-16
TRIB1	-0.3056451	2.133E-16
CAPZB	-0.2491752	2.257E-16
UBE2Q2	-0.3593331	2.279E-16
ARID4A	-0.4382921	2.36E-16
ZNF66	0.247188	2.429E-16
KCNE3	0.2296369	2.534E-16
UQCRFS1	-0.3350916	2.557E-16
RHEX	0.4012363	2.689E-16
ARMCX3	-0.4418261	2.744E-16
COA4	0.3783722	2.813E-16
NOP14	0.3239902	2.849E-16
TBCK	0.1636512	2.86E-16
TNFRSF1B	-0.2993906	2.92E-16
TESPA1	0.3395122	2.958E-16
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RPS21	0.1937834	3.058E-16

YWHAG	-0.3800985	3.266E-16
B3GNT8	-0.2188084	3.331E-16
PCMTD1	0.3029866	3.445E-16
SDHAF3	0.2148215	3.499E-16
CYSLTR1	0.3431927	3.752E-16
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NAB2	-0.2404592	4.22E-16
ADAM8	-0.3477243	4.352E-16
BRAF	-0.3203897	4.369E-16
GPSM2	0.2111491	4.483E-16
RFXAP	0.1226111	4.513E-16
F11R	-0.3580706	4.862E-16
BRD7	0.3525557	5.854E-16
NEDD9	-0.3377711	6.009E-16
CD37	-0.3380507	6.069E-16
RPL36A	0.2062346	6.121E-16
FAM210B	0.2124634	6.33E-16
GLUL	-0.4961193	6.945E-16
CCDC6	-0.325588	7.413E-16
SIGIRR	-0.2958714	7.836E-16
HSDL2	0.2249582	7.882E-16
LIPT1	0.1654945	8.661E-16
PAM16	0.2777356	8.717E-16
PCBP1-AS1	0.2257565	8.931E-16
CARD19	-0.3983021	9.244E-16
DARS	0.3476683	9.727E-16
POLR2H	0.2952523	9.767E-16
PJA2	-0.3496701	1.049E-15
SELENOK	-0.3573414	1.137E-15
PSMA5	0.2570691	1.145E-15
RPL39	0.2189678	1.283E-15
FKBP1A	-0.367298	1.295E-15
PHACTR2	0.256041	1.344E-15
XRCC5	0.3325268	1.423E-15
AC016831.5	-0.2921893	1.5E-15
ACADSB	0.1221217	1.522E-15
SBDS	-0.3509921	1.532E-15
PPP4R1	-0.2741293	1.558E-15
NLN	0.165716	1.76E-15
ADGRE2	-0.3755013	1.829E-15
IMPA2	0.2468452	1.851E-15
SSH2	-0.3361132	1.931E-15
NEK9	0.1909076	2.034E-15
ABRAXAS1	0.2299233	2.058E-15
CREB1	0.2014817	2.089E-15
MACF1	0.4292064	2.326E-15
HDDC3	0.1916207	2.357E-15
PPP1R3E	0.1967912	2.477E-15
ALG3	0.1955853	2.728E-15
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AHSA1	0.323513	2.765E-15
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TAF12	0.2379522	3.001E-15
VPS26A	-0.2780381	3.141E-15
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TLN1	0.352025	3.414E-15
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DNAJA2	-0.3789865	4.151E-15
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FZR1	-0.2159936	4.587E-15
MNS1	-0.2872185	4.665E-15
MOK	-0.1784529	4.686E-15
MCPH1	0.1687759	4.721E-15
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NFKBIZ	0.2511502	4.757E-15
SMIM26	0.3778711	5.143E-15
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CD200	0.2365244	5.266E-15
FAM120A	0.3283532	5.333E-15
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SFPQ	0.2737002	5.973E-15
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R3HDM2	0.303905	6.711E-15
CYHR1	0.2586492	7.583E-15
ECHDC1	0.2505556	7.999E-15
ZCCHC7	0.2680064	8.011E-15
ZSWIM7	0.242751	8.03E-15
CALHM6	0.3776572	8.151E-15
AKIRIN1	-0.3703536	8.161E-15
TANK	-0.3928088	8.212E-15
TP53BP2	-0.3138899	8.464E-15
STX12	-0.2501942	8.481E-15
PSMB1	-0.3184142	8.631E-15
BMI1	0.2235797	8.719E-15
SLC43A2	-0.2891192	8.869E-15
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GNPTAB	0.3511416	9.562E-15
ALKBH7	0.3856455	9.625E-15
CCM2	-0.3496231	1.037E-14
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ATG101	-0.232349	1.111E-14
GSN	-0.3832144	1.155E-14



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NSF	0.2146259	1.459E-14
VDAC1	0.3933058	1.522E-14
ARHGAP30	-0.2820165	1.598E-14
TRIP11	0.2756799	1.605E-14
OAZ2	-0.3138748	1.73E-14
PCID2	0.2682411	1.731E-14
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CTSW	-0.3692966	1.856E-14
BAZ2A	-0.332454	2.007E-14
SF3B5	-0.3101133	2.061E-14
FASTKD1	0.1751678	2.061E-14
BAALC	-0.3984577	2.084E-14
S100Z	0.3574205	2.087E-14
PPIF	-0.3534691	2.096E-14
RRP9	0.1659124	2.152E-14
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TMEM192	0.201696	2.249E-14
CCNL1	0.3467992	2.344E-14
AL354733.3	0.1163882	2.429E-14
POGLUT1	0.2037607	2.48E-14
PPP4C	-0.2837206	2.651E-14
TMUB1	-0.1760518	2.694E-14
JUNB	-0.6546799	2.798E-14
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MCM3AP-AS	0.1534861	2.842E-14
MRPL24	0.2248693	2.878E-14
DCK	0.3176813	2.934E-14
HCG11	0.1609751	2.974E-14
COG3	-0.2831482	3.102E-14
UBE2A	-0.3286445	3.125E-14
RPS27A	0.1511003	3.132E-14
KDM5B	-0.410198	3.172E-14
TERF2	-0.294041	3.342E-14
PMS1	0.2280098	3.618E-14
SH3YL1	0.176934	3.694E-14
AGTRAP	0.2097061	3.75E-14
ZC3H8	0.2435108	3.756E-14
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GOLIM4	0.3228946	3.93E-14
UBAC1	0.2250298	4.13E-14
NME2	0.29367	4.154E-14
SEC14L1	-0.3098818	4.202E-14
TRABD	-0.2836819	4.627E-14
DSTYK	-0.2258238	4.647E-14
RPL21	0.1861991	4.785E-14
EBAG9	0.1998466	5.124E-14

VPS36	0.3409793	5.153E-14
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GNAS	-0.3089874	5.677E-14
EEF1AKMT1	0.1228929	5.829E-14
CPSF2	0.2507088	5.875E-14
TNNI2	-0.2157031	5.985E-14
IAH1	-0.2823091	5.992E-14
KTN1	0.3234723	6.193E-14
CDC42SE2	-0.3453211	6.296E-14
GCNT1	0.2345619	6.8E-14
ATF4	-0.4024623	6.867E-14
OIP5-AS1	0.3367337	6.9E-14
HIST1H2AC	-0.4141355	6.959E-14
GTF2H5	0.2425676	7.09E-14
PCIF1	-0.2825189	7.969E-14
SOS1	0.2763129	8.107E-14
PROC	-0.2507142	8.155E-14
HOPX	0.4139576	8.53E-14
CREG1	0.3137007	8.58E-14
ELMO1	-0.3168123	8.956E-14
TNK2	-0.256205	9.046E-14
COA3	0.2601112	9.071E-14
THYN1	0.2564968	9.378E-14
ILF2	-0.3200225	9.69E-14
MITD1	0.2776292	9.717E-14
CSK	-0.286675	9.72E-14
TNFRSF18	-0.3417153	1.09E-13
OSTC	0.2178126	1.146E-13
ZC3H12A	-0.1637638	1.151E-13
ABCC4	0.2573732	1.164E-13
AL450998.2	0.1794446	1.223E-13
HIKESHI	0.257537	1.247E-13
RAP1A	-0.3326649	1.27E-13
DGKD	-0.2513538	1.304E-13
INPP4B	0.2487666	1.31E-13
SPG11	0.2337157	1.311E-13
TMEM218	0.2014185	1.332E-13
C12orf45	0.2943909	1.347E-13
SMIM8	0.18665	1.357E-13
SREBF1	-0.2266553	1.382E-13
STX17	0.2139809	1.396E-13
TCP11L2	-0.3020984	1.396E-13
POLR3H	0.166532	1.42E-13
PMVK	0.2106124	1.446E-13
PAFAH1B1	-0.3127339	1.488E-13
TBC1D5	0.2677823	1.513E-13
ZSWIM6	-0.2656472	1.586E-13
NOC3L	0.258719	1.593E-13
PSMD7	-0.2378582	1.767E-13
ACBD3	-0.2956895	1.783E-13

PSMG4	0.2735729	1.802E-13
NDUFA8	0.2079578	1.817E-13
AATK	-0.1419569	1.865E-13
SOCS2	0.300273	1.888E-13
DLEU1	0.2597595	1.924E-13
SERPINB1	0.34765	1.948E-13
DYNC1H1	-0.281893	1.961E-13
RPGR	-0.3437669	1.961E-13
CHCHD7	0.2746527	1.963E-13
TMC6	-0.3175302	2.098E-13
CDV3	0.2871176	2.203E-13
ITGA4	0.4042556	2.215E-13
ALAS1	-0.2764578	2.24E-13
CLK1	-0.3830135	2.284E-13
NDUFA3	0.2657368	2.343E-13
CLPTM1L	0.2023603	2.393E-13
IRF9	-0.2311689	2.44E-13
PAFAH1B2	-0.3406115	2.484E-13
NFATC2	-0.25511	2.486E-13
UBE3D	0.1268604	2.521E-13
PGM2L1	-0.3352276	2.553E-13
PTBP2	-0.2633899	2.566E-13
NUP42	0.265382	2.696E-13
TRUB2	0.1874819	2.729E-13
GARS-DT	0.2841331	2.757E-13
PSMG1	0.2138835	2.818E-13
RNF168	-0.3659027	3.085E-13
ARHGEF6	0.2821595	3.213E-13
SKA2	0.2102613	3.463E-13
AL359504.2	0.1229828	3.497E-13
SPOP	-0.3163424	3.643E-13
PUS7	0.1881535	3.689E-13
IFNGR2	-0.3655233	3.863E-13
VNN1	0.3209641	4.05E-13
DENND3	-0.2907744	4.14E-13
ABHD14A	0.2331259	4.143E-13
LATS2	-0.2490254	4.337E-13
ZNF253	0.1738128	4.615E-13
LZIC	0.2185456	4.676E-13
ARV1	0.1311055	4.727E-13
AGPAT2	-0.2954245	4.902E-13
CIITA	0.2592258	4.933E-13
CACUL1	-0.2478108	4.964E-13
CMC1	0.2179648	5.165E-13
SNCA	0.2581317	5.247E-13
KLHDC8B	0.1303633	5.412E-13
VEZF1	-0.2830408	5.55E-13
NDUFB2	0.2542602	5.662E-13
MAP3K2	-0.2818558	5.75E-13
UBA6	-0.2777324	5.972E-13

AGL	0.1748204	6.134E-13
ANKRD13D	-0.2090679	6.438E-13
PLAC8	0.4239892	6.692E-13
PPP6C	-0.2394463	6.746E-13
SATB1-AS1	0.2998224	6.75E-13
ZNF681	0.1569077	6.928E-13
ARPC1A	-0.2488457	6.998E-13
PPP3R1	-0.3404365	7.431E-13
ACTR1A	-0.266004	7.495E-13
ZBTB46	-0.1969409	7.679E-13
CCL1	-0.1909476	7.845E-13
SLC2A1	-0.2767395	7.876E-13
DBP	0.157998	7.889E-13
N4BP1	-0.2992175	7.986E-13
AL133330.1	-0.1630457	8.15E-13
TPR	0.3267108	8.399E-13
EIF4G3	0.244842	8.439E-13
WBP11	-0.286942	8.772E-13
XPO1	0.313428	8.834E-13
MIR155HG	0.250986	8.962E-13
TCAIM	0.1540071	9.303E-13
STX11	-0.2164386	9.333E-13
GART	0.2554073	9.371E-13
AP1G1	-0.2971685	9.56E-13
PCYOX1	0.1972073	9.718E-13
EMB	0.3829161	9.99E-13
ACTB	-0.3149714	1.004E-12
MANF	-0.3929346	1.02E-12
TRADD	0.1659403	1.039E-12
PIGBOS1	0.1876362	1.046E-12
ARHGAP4	-0.3029963	1.088E-12
RPL24	0.1855889	1.13E-12
RNF20	0.1692082	1.148E-12
RASGRP3	0.2672623	1.156E-12
ADK	0.1990442	1.156E-12
ADPRHL2	-0.2304555	1.165E-12
AKAP1	0.1417309	1.176E-12
STXBP4	0.1132329	1.196E-12
CLNS1A	0.3417519	1.204E-12
TINF2	-0.2283326	1.218E-12
BANF1	0.2589946	1.292E-12
SGK3	0.2458177	1.292E-12
SMIM19	0.228699	1.296E-12
PTPN2	0.2901883	1.311E-12
THOC2	0.3578631	1.328E-12
ZNF780B	0.1817711	1.342E-12
IMP3	0.3248247	1.351E-12
BUD31	-0.3351422	1.401E-12
SV2A	0.1424199	1.412E-12
ZC3H15	-0.3549967	1.506E-12

AL499604.1	0.1797117	1.514E-12
GNPDA1	0.1616494	1.515E-12
ROCK2	0.307619	1.518E-12
PLPPR3	0.2415993	1.623E-12
GCH1	-0.2863598	1.629E-12
CD7	-0.3017283	1.654E-12
PRDX5	-0.3241902	1.663E-12
ZNF248	0.1453319	1.737E-12
SMARCA5	0.3316633	1.818E-12
CCDC34	0.1766435	1.826E-12
MDK	-0.3928551	1.901E-12
FLYWCH2	0.1994653	1.93E-12
ATP5MC1	0.3064293	1.937E-12
PPIB	-0.3359285	1.998E-12
KRT17	-0.4246644	2.009E-12
LENG8	-0.2652532	2.084E-12
ANXA2	-0.386653	2.095E-12
BCL11A	0.4618399	2.099E-12
NR2F6	0.1243398	2.139E-12
RECQL	0.2272617	2.188E-12
UBE2L3	-0.2670409	2.25E-12
TALDO1	0.2455574	2.271E-12
AKAP8L	-0.2913619	2.272E-12
KHNYN	-0.2383969	2.318E-12
MSH2	0.2279008	2.328E-12
COL4A5	0.1923452	2.366E-12
MIB1	0.2486463	2.487E-12
TTC37	0.2732986	2.518E-12
VPS41	0.2422996	2.529E-12
BCLAF1	0.2866394	2.584E-12
LRRK1	0.191563	2.584E-12
CSGALNAC	-0.2933429	2.755E-12
EAPP	-0.2950841	2.766E-12
XIRP2	0.1778389	2.797E-12
SRP72	0.3096732	2.798E-12
NDUFV3	0.2493167	2.809E-12
CLDND1	-0.2977825	2.864E-12
NPEPPS	-0.3829873	2.979E-12
RABEPK	0.146636	3.023E-12
GMPR2	0.1948788	3.174E-12
SGO2	0.2049141	3.254E-12
SH3GL1	-0.2155841	3.297E-12
SLITRK4	0.1649024	3.419E-12
ATIC	0.2686235	3.473E-12
TCEAL4	0.2515711	3.609E-12
CCND3	-0.3362803	3.618E-12
RNF114	-0.2824296	3.717E-12
ANKRD28	-0.396865	3.808E-12
SRBD1	0.2284553	3.843E-12
ALDH3A2	0.1068085	3.883E-12

RNASE3	0.1099587	4.105E-12
RASSF5	-0.2324262	4.302E-12
ATXN7L1	0.1134687	4.358E-12
S100A4	-0.6372423	4.397E-12
ZBTB38	0.1081293	4.512E-12
ARL5A	0.2479442	4.731E-12
ZEB1	-0.3208037	4.795E-12
R3HDM1	0.2111396	4.897E-12
CKS2	0.2060567	4.961E-12
PRDM16	0.1710744	5.107E-12
LINC00665	0.2437834	5.115E-12
PPM1K	0.213276	5.14E-12
DNMT1	0.303548	5.177E-12
ST6GAL1	0.0823115	5.25E-12
EGLN2	-0.2404503	5.557E-12
FRY	0.1256105	5.809E-12
NMI	0.3158874	5.929E-12
ALDH3B1	0.2300141	5.966E-12
POLR3GL	0.2806892	6.027E-12
ORMDL2	-0.2455119	6.414E-12
CPTP	-0.1602506	6.5E-12
UTP18	0.264446	6.553E-12
SMC1A	0.298815	6.976E-12
NSRP1	0.3080173	7.226E-12
RNF145	-0.3105225	7.417E-12
OCLN	0.2119358	7.78E-12
RPL22L1	0.3776643	7.8E-12
DYRK1B	-0.2209072	7.944E-12
C1GALT1C1	0.177827	8.069E-12
RIDA	0.1434256	8.348E-12
UBE2M	0.2617469	8.567E-12
RRAGA	-0.1940869	8.776E-12
AHR	-0.3868904	8.91E-12
TCOF1	0.2452219	9.162E-12
SMIM30	0.1781462	9.269E-12
ABI3	-0.1142143	9.451E-12
HIBADH	0.1373331	9.515E-12
CDK4	0.2936784	9.749E-12
SLC10A3	-0.1785023	9.772E-12
PAICS	0.2746375	9.83E-12
CPNE3	0.3045036	9.965E-12
ZEB2	0.293197	1.004E-11
UXS1	0.2194509	1.008E-11
FBXW11	-0.2095644	1.015E-11
GDF11	0.2486823	1.017E-11
UBR5-AS1	0.2609897	1.032E-11
RNF214	0.1705387	1.057E-11
UBE2Z	-0.282711	1.139E-11
FAM76A	-0.2091813	1.192E-11
DPM1	-0.202435	1.224E-11

PCBP2	0.2702832	1.269E-11
RNMT	-0.317321	1.313E-11
TNFSF14	-0.2279171	1.343E-11
NUDT6	0.1355458	1.356E-11
MAP3K4	0.158332	1.36E-11
KAT6A	-0.2998141	1.375E-11
RHEB	-0.3280623	1.386E-11
SLC30A1	-0.2348607	1.392E-11
TARSL2	0.2003538	1.402E-11
SLC43A1	0.1354929	1.421E-11
HMGCS1	-0.303874	1.445E-11
PPWD1	0.1973452	1.516E-11
NOTCH3	-0.1522106	1.516E-11
DNAJC19	0.3003146	1.565E-11
NFKB1	-0.3087593	1.586E-11
RSAD1	0.1289753	1.632E-11
ELF4	-0.2188405	1.632E-11
RYBP	-0.3404254	1.646E-11
ACTR1B	-0.2778638	1.678E-11
AC019205.1	0.0749992	1.711E-11
COX4I1	-0.271469	1.827E-11
PBDC1	-0.2846209	1.857E-11
IDI1	-0.3229219	1.88E-11
ALDH1B1	0.0811845	1.903E-11
BCKDHB	0.11322	1.904E-11
CEBPB	-0.3704952	1.94E-11
YPEL3	0.3417984	1.94E-11
MMACHC	0.067942	1.952E-11
NT5C	-0.3131261	2.015E-11
PDCD6	0.2434253	2.114E-11
NHP2	0.3268414	2.169E-11
NEAT1	-0.4831507	2.175E-11
PNPT1	0.2242567	2.263E-11
EIF3E	0.2842428	2.284E-11
IL16	0.2197465	2.304E-11
LRIF1	0.2209501	2.325E-11
LINC00899	0.3046463	2.344E-11
GOPC	0.2111144	2.433E-11
NFYB	0.1977834	2.461E-11
MMP19	-0.2030603	2.483E-11
ZNF326	-0.2886368	2.493E-11
ADD3	0.2389884	2.501E-11
CIR1	-0.3528789	2.595E-11
TRIM16	0.2273693	2.619E-11
DEAF1	0.2179028	2.621E-11
BCOR	-0.3286024	2.621E-11
ACAT1	0.1633707	2.688E-11
ERMP1	0.1960726	2.758E-11
BDH2	0.1137448	2.785E-11
ACTL6A	0.2304834	2.809E-11

PRR12	0.1854009	2.831E-11
MID1IP1	-0.2671152	2.873E-11
ARMC10	0.2268743	2.955E-11
PDXP	0.0997397	2.961E-11
ZNFX1	-0.2871689	3.02E-11
RPUSD3	0.1663748	3.032E-11
ACOT13	0.2488429	3.161E-11
PCMTD2	0.1920188	3.198E-11
CARNMT1	0.1825893	3.214E-11
SRP14-AS1	0.1850806	3.219E-11
FES	0.1928925	3.224E-11
SLC16A7	0.240334	3.417E-11
CLPB	0.1450398	3.467E-11
SLC35E1	-0.203197	3.523E-11
TOR4A	-0.1973532	3.621E-11
MAPKBP1	-0.2237256	3.782E-11
RNF7	-0.272436	3.795E-11
BLOC1S2	-0.2877328	3.86E-11
STK17B	-0.3481988	3.873E-11
PPTC7	-0.1948735	3.946E-11
PRH1	0.1759016	4.035E-11
RPF2	0.1779273	4.144E-11
POLR2F	0.2896197	4.19E-11
NBAS	0.1564161	4.247E-11
S1PR2	-0.104311	4.308E-11
CNPY2	0.2758428	4.363E-11
DUSP2	0.2857886	4.497E-11
CNNM3	0.0932098	4.514E-11
ARFGAP3	-0.2311265	4.655E-11
RNF213	0.24281	4.664E-11
ENTPD1-AS	0.1770313	4.851E-11
SELENOT	-0.2906887	4.958E-11
SELENOW	-0.2223001	5.005E-11
SOCS3	-0.2547573	5.238E-11
GMPR	0.1807482	5.365E-11
PPA1	0.2970998	5.731E-11
NIFK	0.2777546	5.966E-11
TOX4	-0.2759947	6.002E-11
WRNIP1	0.1949258	6.029E-11
FBL	0.3282788	6.234E-11
WEE1	-0.2315745	6.663E-11
TST	0.1973623	7.059E-11
SASH3	-0.2401188	7.171E-11
MTR	0.2875989	7.358E-11
RBM27	-0.2466104	7.366E-11
C20orf27	0.188746	7.553E-11
ADAL	0.1011933	7.632E-11
KCMF1	-0.304577	7.941E-11
MLEC	0.287683	8.042E-11
TIMP2	0.2455314	8.104E-11



ELP4	0.1230552	8.132E-11
LIMD1	-0.158594	8.17E-11
TNFRSF4	-0.4375919	8.175E-11
CD68	-0.232077	8.257E-11
SSR1	0.2525678	8.295E-11
MED13L	-0.3069563	8.38E-11
CTR9	0.2748548	8.948E-11
CHIC2	-0.2944492	9.173E-11
DUT	0.2803905	9.213E-11
NUMB	-0.2401958	9.315E-11
HEATR5B	-0.193025	9.346E-11
RAB5C	-0.2797172	9.611E-11
SLC22A16	0.1498823	9.827E-11
RNASEL	0.1100408	1.005E-10
BAIAP2-DT	-0.2417821	1.06E-10
EIF4H	-0.3335639	1.068E-10
ERLIN1	0.2489148	1.075E-10
ZNF74	0.0865286	1.095E-10
YPEL2	-0.2872454	1.117E-10
MRTO4	0.2082272	1.119E-10
GLUD1	-0.2742431	1.124E-10
SORD	0.2125199	1.131E-10
CPNE8	0.1885245	1.136E-10
LINC00909	0.1978045	1.146E-10
SOD2	-0.4694238	1.167E-10
MYBBP1A	0.1312574	1.183E-10
SMAD5	0.1748929	1.218E-10
FAM89B	-0.2568481	1.235E-10
CDCA7L	0.2409246	1.265E-10
GCSAML	0.2862361	1.28E-10
SDC4	-0.1669029	1.342E-10
ITPRID2	-0.32705	1.37E-10
SLA	0.1035488	1.377E-10
ZNF32	0.1492986	1.4E-10
NME4	0.2263399	1.461E-10
SNHG15	-0.2966313	1.472E-10
CLEC2D	0.1527662	1.517E-10
TOMM20	0.305562	1.547E-10
OARD1	0.2258584	1.561E-10
AZU1	0.5047002	1.574E-10
PLAU	-0.3421229	1.593E-10
JCHAIN	-0.1843023	1.596E-10
MAPRE1	-0.2999552	1.599E-10
PAPOLA	-0.2601473	1.602E-10
MAP3K1	-0.2810036	1.635E-10
NT5DC1	0.151448	1.639E-10
SPATC1L	0.1783657	1.655E-10
TARDBP	-0.2840871	1.677E-10
MSH3	0.1825977	1.71E-10
ATRN	0.1220089	1.738E-10

TSEN2	0.1375026	1.761E-10
ATP1A1-AS1	0.0727452	1.766E-10
ARHGEF2	-0.3276115	1.766E-10
SAMD4B	-0.2325752	1.799E-10
AAMDC	0.1550183	1.808E-10
ZNHIT6	0.2648778	1.81E-10
DDX55	0.1850163	1.894E-10
PPCS	0.2945128	1.926E-10
TLR4	0.0767765	1.95E-10
MRPL19	0.2322205	2.016E-10
DNTTIP1	-0.1893106	2.05E-10
CHCHD3	0.1728735	2.077E-10
SSU72	0.2524891	2.131E-10
CCDC144A	0.1849575	2.168E-10
SERTAD3	-0.2068054	2.204E-10
RPL41	0.1386464	2.23E-10
TMED3	0.2257041	2.251E-10
RPL11	0.140873	2.325E-10
CENPX	0.224339	2.354E-10
AC026471.1	0.1096809	2.372E-10
NDC1	0.0886044	2.5E-10
ZNF516	-0.2462819	2.502E-10
LY75	0.2786659	2.536E-10
SNN	-0.1559591	2.552E-10
MRE11	0.2415068	2.553E-10
PPP3CA	0.2353749	2.566E-10
RTCA-AS1	0.2219861	2.592E-10
BRCC3	0.1666641	2.639E-10
SETD5	-0.2234196	2.656E-10
B4GALT6	0.1110812	2.668E-10
FAM111A	0.2502656	2.689E-10
GALK1	0.1483978	2.74E-10
COPS2	-0.2834303	2.904E-10
TRPV2	-0.1240817	3.142E-10
KIF1BP	-0.1906471	3.144E-10
MTLN	0.1389662	3.173E-10
PGRMC2	0.2349824	3.19E-10
SHOC2	-0.3487045	3.203E-10
FAH	0.2172392	3.224E-10
PVT1	0.1241479	3.281E-10
PARK7	0.2799379	3.283E-10
ZBTB20	0.2875064	3.288E-10
CEP57	0.2342979	3.301E-10
ERVK3-1	-0.1970213	3.348E-10
RICTOR	-0.3245155	3.391E-10
GSEC	0.1119089	3.403E-10
PRKAA1	-0.3308964	3.466E-10
CLK3	-0.2201671	3.513E-10
INTS13	0.1917777	3.687E-10
BBC3	-0.1034751	3.694E-10

ZMYND19	0.0962102	3.707E-10
MDFI	0.1552521	3.772E-10
INTS10	0.2356858	3.78E-10
MRPL1	0.1808051	3.807E-10
AC016831.1	-0.1633907	3.841E-10
GPBP1	-0.2255809	3.897E-10
RELA	-0.2431445	4.059E-10
GLIPR1	0.5364934	4.165E-10
CAPRIN1	0.2504831	4.238E-10
EVI2A	0.2813223	4.247E-10
FADS1	0.2685061	4.34E-10
SMARCAD1	0.189602	4.378E-10
RIOX2	0.1928149	4.6E-10
SCARB1	0.1484694	4.612E-10
LINC00996	0.1536751	4.854E-10
TSSC4	-0.1460937	4.859E-10
GABARAPL1	-0.1954528	5.036E-10
RFLNB	0.2542849	5.089E-10
ALPK1	0.1456058	5.159E-10
RAB2A	-0.2948323	5.255E-10
CHEK2	0.1099771	5.474E-10
CRYGD	0.2861977	5.546E-10
ZYX	-0.3006459	5.581E-10
YY1AP1	-0.2099105	5.624E-10
ZNF770	0.199794	5.638E-10
CCDC18	0.1629259	5.801E-10
TLR2	0.1372013	6.18E-10
ARID1B	0.326376	6.227E-10
IDE	0.1110905	6.326E-10
LIMA1	0.1450614	6.333E-10
PTPN22	0.2002002	6.502E-10
UPF2	0.3516269	6.624E-10
HIST1H2BC	-0.336176	6.63E-10
TIMM8B	0.2358166	6.779E-10
VIM-AS1	-0.2325129	6.849E-10
PAF1	-0.1970306	6.861E-10
ZC3H6	0.1850654	7.277E-10
FRA10AC1	0.1710584	7.291E-10
JARID2	-0.2494694	7.383E-10
FOXO3	-0.2521645	7.441E-10
ZNF667	-0.2738686	7.562E-10
FAM207A	0.1916038	7.689E-10
UBL5	0.1893652	7.744E-10
ERCC6L2	0.1666927	7.82E-10
CALCRL	-0.2533387	7.913E-10
RPS8	0.135565	8.31E-10
DCTPP1	0.2332604	8.414E-10
EMD	-0.2406156	8.456E-10
ORMDL1	0.2310661	8.521E-10
CUL1	0.1478133	8.569E-10

RBBP6	0.3081329	8.735E-10
CSPP1	-0.2696818	8.955E-10
EMC2	0.1530958	9.019E-10
RASA2	-0.2291337	9.606E-10
CALHM2	-0.1728707	1.043E-09
SHFL	-0.2557538	1.077E-09
TMEM123	0.1970038	1.084E-09
RTN2	0.1209287	1.088E-09
RAB32	0.3545762	1.091E-09
PRPSAP1	0.1554253	1.106E-09
SNHG1	0.2131427	1.108E-09
LAMTOR4	0.2299943	1.113E-09
UNG	0.151321	1.152E-09
ADGRA3	0.0732116	1.152E-09
COMMD4	0.1812294	1.177E-09
CEP41	0.1477677	1.18E-09
Z83843.1	0.1835995	1.187E-09
PHTF1	-0.188241	1.192E-09
MRPS24	0.2459588	1.194E-09
NT5M	0.1670641	1.206E-09
HIST1H1D	0.4642936	1.213E-09
SERPINB6	0.233187	1.216E-09
SMPD2	-0.1719257	1.23E-09
COPRS	0.192717	1.23E-09
UQCRH	0.189995	1.234E-09
TMEM258	0.2488568	1.239E-09
CHST13	0.1009841	1.247E-09
PML	-0.1481122	1.27E-09
FUCA2	0.1979427	1.285E-09
CAPG	0.2349596	1.315E-09
HADH	0.2500937	1.345E-09
LAMTOR1	0.2704464	1.372E-09
NUTF2	-0.2086707	1.405E-09
ENOSF1	0.2443439	1.427E-09
LCOR	-0.3060887	1.47E-09
ZNF680	0.1520735	1.478E-09
LACTB	-0.2760441	1.482E-09
LINC01184	0.1683631	1.487E-09
CABIN1	-0.3049724	1.533E-09
MPLKIP	0.204026	1.538E-09
TUBGCP4	0.1721682	1.589E-09
RABGEF1	-0.2273336	1.602E-09
CTNND1	-0.2561439	1.612E-09
WDR89	0.1167752	1.624E-09
LINC02256	0.2124183	1.658E-09
IL18	0.3277505	1.706E-09
SYNE3	-0.299028	1.778E-09
TCAF1	0.2232046	1.83E-09
HILPDA	0.1383488	1.88E-09
DHPS	0.1554193	1.89E-09

TSPAN3	0.2495654	1.95E-09
ARHGAP15	0.24072	2.019E-09
ST3GAL3	0.1121354	2.042E-09
B4GALT1	-0.1966744	2.053E-09
VEZT	-0.2208475	2.068E-09
ARHGEF3	-0.1510499	2.071E-09
ULK4	-0.1629036	2.084E-09
ZNF546	0.0815668	2.093E-09
AC092683.1	0.2842811	2.131E-09
ECI2	0.1586708	2.3E-09
STARD3NL	-0.1841149	2.302E-09
ZNF37A	0.2597857	2.333E-09
MYL12A	-0.2450249	2.34E-09
NFAT5	-0.2259414	2.341E-09
GPR35	-0.1745197	2.461E-09
RASSF2	-0.2265078	2.498E-09
NUDT16L1	-0.3405884	2.524E-09
TAPT1	-0.2334733	2.542E-09
REXO4	0.1803815	2.603E-09
TRIM44	0.2802965	2.651E-09
GLRX	-0.0072122	2.694E-09
TESK2	0.0614927	2.695E-09
ATP2B4	0.1758338	2.711E-09
HBD	0.866736	2.731E-09
WIPI2	-0.1841569	2.74E-09
TRIM28	0.1822072	2.773E-09
TLNRD1	-0.1781633	2.784E-09
MTX2	0.1486844	2.87E-09
UTP14A	0.2165891	2.925E-09
PNPLA8	-0.2845245	2.937E-09
USP28	0.078778	2.957E-09
CCDC86	0.0711114	2.959E-09
GCA	0.2257062	2.999E-09
TOMM40	0.1893493	3.065E-09
CYB5R3	-0.2246047	3.148E-09
CD2BP2	-0.2025362	3.405E-09
TMEM168	0.1515918	3.407E-09
CCT3	0.3000935	3.419E-09
PTBP3	0.2328522	3.605E-09
HSD17B12	0.229657	3.613E-09
NR6A1	0.1778008	3.648E-09
CD46	0.219203	3.693E-09
LINC01409	0.1135084	3.811E-09
NARS2	0.1438797	3.881E-09
POU2F2	-0.2635573	3.882E-09
CAMLG	0.3466064	4.046E-09
NCK1	-0.2104696	4.059E-09
PRKAR1A	-0.2415855	4.15E-09
mars-02	0.1056967	4.15E-09
SF3B3	0.2065909	4.201E-09

TPCN1	0.0956918	4.222E-09
PLIN3	-0.2287982	4.272E-09
GTF2H3	0.1562826	4.274E-09
ATP5MC2	0.174042	4.275E-09
NLRC3	-0.2468527	4.28E-09
SAR1A	-0.2510245	4.29E-09
SYT11	-0.1934141	4.305E-09
ITGA3	-0.0910552	4.346E-09
ATP5ME	0.2803275	4.383E-09
RNASEH2C	0.2730843	4.41E-09
ZNF518A	0.2076902	4.513E-09
GSPT2	0.1502354	4.516E-09
C22orf34	0.1153013	4.823E-09
AC021097.2	0.0539957	4.825E-09
RALY	-0.2196373	4.87E-09
LNPEP	0.2115877	4.881E-09
SKI	-0.2104098	4.897E-09
CRTC2	-0.1741831	4.98E-09
GNA13	-0.2737629	4.98E-09
DUS1L	0.1992879	5.017E-09
MINCR	0.116292	5.145E-09
PLA2G12A	0.1364923	5.159E-09
KLHL23	0.1640705	5.251E-09
BRI3BP	0.2763482	5.328E-09
AMZ1	-0.1051997	5.364E-09
ARL11	0.2323382	5.383E-09
SMIM1	0.1194618	5.451E-09
ZNF718	0.085694	5.491E-09
ITGB1	0.1917231	5.494E-09
TRMT13	0.2265017	5.602E-09
PAAF1	0.1691357	5.627E-09
AC019069.1	0.0971403	5.648E-09
BICRAL	0.0990862	5.712E-09
CEP170	-0.2664124	5.718E-09
GRPEL1	0.1173956	5.75E-09
DIMT1	0.1765984	5.786E-09
COG6	0.0866654	5.878E-09
CAVIN1	-0.146043	6.147E-09
SRPRB	0.154252	6.182E-09
CORO1A	-0.3179143	6.322E-09
CDC123	-0.2284883	6.73E-09
GCFC2	0.0973414	6.919E-09
PMEPA1	-0.1923737	6.955E-09
MANEA	0.1362787	7.298E-09
NCK1-DT	0.1414336	7.309E-09
ICE2	0.1717109	7.461E-09
AC012146.1	0.1389388	7.663E-09
CCN3	-0.2432701	7.806E-09
TWISTNB	0.1242096	8.152E-09
CAP1	-0.2463076	8.161E-09

GPR146	-0.2420947	8.308E-09
TGIF1	-0.178862	8.583E-09
GOLGA8R	0.1390722	8.733E-09
STRBP	0.2038779	8.749E-09
PIGP	0.2406829	8.991E-09
RCAN1	0.0641145	9.203E-09
RPS6KA5	-0.3251834	9.364E-09
PDCD6IP	0.2273438	9.79E-09
GTF2H2C	0.0981308	9.822E-09
KMT2C	-0.1985833	9.878E-09
DOCK2	0.2660972	9.926E-09
MICOS13	0.2938388	1.002E-08
C5orf63	0.1029998	1.005E-08
PLGRKT	0.1296526	1.007E-08
TEX30	-0.2233732	1.033E-08
LIMK1	-0.1458877	1.054E-08
FOXRED2	0.0755192	1.064E-08
IFRD2	0.2212427	1.099E-08
FBXL12	-0.1646833	1.102E-08
JOSD1	-0.244563	1.118E-08
RPL27A	0.1563176	1.157E-08
PIP4P1	-0.1914008	1.159E-08
BDH1	0.1143922	1.196E-08
BIN3	-0.1854402	1.213E-08
SAP30BP	-0.2376706	1.223E-08
P4HA1	0.1780729	1.238E-08
SMAP2	-0.2313492	1.244E-08
PRPF6	0.2111733	1.253E-08
AC009061.2	0.1046597	1.28E-08
AL021368.2	0.2038654	1.282E-08
ARRB2	-0.1948434	1.286E-08
ZNRF2	0.1077029	1.293E-08
NDUFB6	0.2439011	1.298E-08
EPHA1-AS1	0.1216366	1.308E-08
RBM39	-0.262567	1.338E-08
FMC1	0.1764588	1.38E-08
GLYR1	0.1728387	1.396E-08
GAB2	-0.1476313	1.405E-08
DPY30	0.2001906	1.414E-08
CCDC14	0.1798172	1.448E-08
STARD4-AS	0.1420914	1.462E-08
CYSTM1	-0.2265782	1.466E-08
HSF1	-0.1347653	1.492E-08
SPINT2	-0.251311	1.521E-08
TMEM41B	-0.2152676	1.559E-08
UBQLN1	-0.247874	1.579E-08
NASP	0.3196372	1.592E-08
VRK2	0.1582828	1.678E-08
INKA1	-0.2275549	1.685E-08
PPP1R35	-0.198206	1.7E-08

TMSB4X	-0.2742747	1.804E-08
FAM118A	-0.1802294	1.811E-08
LASP1	-0.2288679	1.812E-08
KCNC4	0.1162496	1.838E-08
TAF9	-0.4003154	1.98E-08
CCDC88C	-0.1977622	1.983E-08
CEP78	0.1700593	2.037E-08
MAN1A2	0.2368292	2.055E-08
AKAP7	0.1668331	2.063E-08
NSD1	0.1772984	2.072E-08
NCF1	-0.1922068	2.107E-08
CCNI	-0.2803041	2.109E-08
FAM136A	0.2388778	2.125E-08
AMD1	-0.2853207	2.139E-08
ABCG1	-0.2135686	2.156E-08
B4GALT5	-0.177412	2.158E-08
PBXIP1	-0.2721245	2.159E-08
EMC8	-0.1646861	2.249E-08
ATXN2	-0.2998299	2.416E-08
GEMIN5	0.1100123	2.455E-08
MIR4435-2H	-0.185784	2.46E-08
NHLRC2	0.2107737	2.48E-08
RPAIN	0.1998366	2.49E-08
DYNC1LI1	-0.2393999	2.538E-08
Z99127.4	0.0788668	2.563E-08
RP2	-0.1940359	2.573E-08
HSPH1	0.2338208	2.578E-08
HECTD1	-0.193696	2.603E-08
ANKRD16	0.1306127	2.618E-08
CHMP1A	-0.1834834	2.62E-08
RREB1	-0.2908267	2.622E-08
LTA4H	0.2250516	2.736E-08
MKKS	0.1610282	2.737E-08
METTL7A	0.1478089	2.761E-08
BICD1	0.1341261	2.82E-08
ZFAND6	-0.2561531	2.829E-08
ZNF664	0.125878	2.896E-08
UBAP1	-0.1892088	2.926E-08
GRK6	-0.1825396	2.942E-08
FKBP8	-0.2504657	2.98E-08
CNIH4	-0.1863066	3.005E-08
ATG4D	-0.1363477	3.011E-08
KIF5B	-0.2538617	3.028E-08
S1PR4	-0.1627793	3.111E-08
ARIH1	-0.2179934	3.175E-08
FAM162A	0.1870153	3.381E-08
CYTH2	-0.1959044	3.398E-08
NCKAP5L	-0.1566117	3.404E-08
RPS16	0.1694958	3.406E-08
SRRM1	0.2558946	3.415E-08



DPY19L2	0.1266943	3.458E-08
COX6B1	0.2288207	3.508E-08
TM9SF2	0.228081	3.519E-08
EMC7	-0.1842347	3.525E-08
MRPS9	0.1777943	3.529E-08
DTD2	0.119814	3.541E-08
IFT27	0.1331981	3.561E-08
HAGHL	0.1312699	3.573E-08
MORF4L1	-0.2535122	3.681E-08
MAFG	-0.2313616	3.789E-08
GOLGA8N	0.1659469	3.8E-08
RHBDF2	-0.2140639	3.837E-08
RNF138	-0.1914161	3.864E-08
LACTB2	0.1260826	3.896E-08
RMND1	0.1449652	3.969E-08
MTRNR2L12	0.300964	4.026E-08
ZNF551	0.0541321	4.035E-08
METRN	0.1295507	4.102E-08
PKD2	0.1723636	4.201E-08
PIGK	0.1649283	4.246E-08
ESF1	0.2344146	4.323E-08
ATP8B2	-0.1998997	4.337E-08
ZNF485	0.0636036	4.374E-08
WDR70	0.2276807	4.417E-08
STAMBP	0.1319628	4.601E-08
MBD2	0.1865865	4.619E-08
NFE2L1	-0.2356711	4.648E-08
PKN2	-0.2175022	4.807E-08
MXD4	-0.2721048	5.015E-08
CORO7	-0.1522294	5.019E-08
AHI1	0.1724688	5.038E-08
FAF2	-0.1571966	5.183E-08
DYRK1A	-0.2558048	5.234E-08
KDM2A	-0.2230744	5.239E-08
NEFH	0.0844391	5.306E-08
COQ5	0.1197222	5.331E-08
PDCD2	0.2785906	5.334E-08
SEH1L	0.150508	5.458E-08
DUSP3	0.2161002	5.505E-08
WDR7	0.0864841	5.549E-08
CSNK2B	-0.2481303	5.608E-08
SHKBP1	-0.182012	5.684E-08
ST6GALNAC	-0.1474721	5.721E-08
ATP5F1D	0.2083998	5.866E-08
IARS	0.2299931	5.872E-08
ZNF181	0.1162614	5.935E-08
SPAG16	0.1065538	5.942E-08
PPIP5K2	0.2646082	6.055E-08
NUDCD2	0.2347941	6.057E-08
BRIX1	0.1877754	6.067E-08

RBX1	0.2196322	6.077E-08
ACO1	0.1144391	6.104E-08
DNAH14	0.136274	6.195E-08
SUGT1	0.171471	6.214E-08
AC015813.1	0.1396083	6.215E-08
DPH7	0.124233	6.382E-08
GNRH1	-0.1065046	6.491E-08
KPNA6	-0.1864426	6.573E-08
NDUFS6	0.2922165	6.675E-08
ADD1	-0.2794876	6.738E-08
SLC17A5	-0.2139503	6.776E-08
DEDD	-0.1608114	6.835E-08
KRT18	-0.391762	6.848E-08
FSD1L	-0.1843386	6.867E-08
AC103702.1	-0.2187072	7.095E-08
LIME1	-0.2009265	7.12E-08
PSMA4	0.245795	7.396E-08
NDUFV2	-0.2415212	7.603E-08
ISCU	0.3422796	7.614E-08
RPS15A	0.1361959	7.619E-08
UBASH3B	-0.2038598	7.709E-08
CLEC11A	0.2179415	7.836E-08
DNAAF2	0.1843121	8.13E-08
FAM89A	0.1601755	8.187E-08
RBM26-AS1	0.0706168	8.196E-08
DCAF12	0.1253332	8.288E-08
SNW1	-0.2195456	8.352E-08
EIF2B2	-0.2195971	8.371E-08
DMTF1	-0.2126481	8.383E-08
RANBP2	-0.2688135	8.445E-08
FBXO11	-0.2776679	8.686E-08
POLR1B	0.1134923	8.754E-08
AC108463.3	0.0694043	8.763E-08
CDYL	0.1524275	8.951E-08
PDCD4	0.2704302	9.271E-08
AC147067.1	0.0955687	9.336E-08
NEDD4	0.1135239	9.504E-08
CNST	-0.3310159	9.812E-08
PHF7	0.1621381	9.948E-08
TTF2	0.2454322	1E-07
MED10	-0.2119503	1.005E-07
RPL18	0.1401101	1.009E-07
PAXIP1	0.0536073	1.013E-07
MAT2B	0.1486707	1.02E-07
ATP6V0D1	-0.1923859	1.03E-07
CBLB	-0.195452	1.041E-07
PPP4R2	-0.2798609	1.067E-07
ACE	-0.1339218	1.068E-07
MOSMO	0.1176575	1.071E-07
ZNF439	0.1843554	1.077E-07

DYNC1I2	0.1835727	1.079E-07
BIRC3	-0.2128035	1.082E-07
PRIM1	0.1097752	1.084E-07
MYO1G	-0.2321302	1.093E-07
MIA3	0.2027395	1.098E-07
DOK1	-0.1485003	1.101E-07
MYO1F	-0.2233117	1.114E-07
LIAS	0.1483324	1.125E-07
OGA	-0.2327947	1.149E-07
CLIC3	-0.1391903	1.155E-07
DTYMK	0.1879683	1.196E-07
CFDP1	0.2647203	1.203E-07
EMID1	0.1807864	1.224E-07
RNF169	0.1544027	1.24E-07
IKZF1	-0.2554123	1.242E-07
GCAT	0.1203743	1.27E-07
USP12	-0.2983969	1.275E-07
AURKAIP1	0.2041295	1.292E-07
TICAM1	-0.172001	1.308E-07
TWNK	0.1386008	1.31E-07
DDX60L	0.142436	1.319E-07
ACP5	-0.1557651	1.36E-07
PROM1	0.3144353	1.366E-07
GUK1	-0.2344412	1.373E-07
FAM160B1	-0.2033596	1.384E-07
TIMM9	0.2628821	1.397E-07
GRN	0.170667	1.411E-07
OPTN	-0.1231019	1.431E-07
PHKB	0.1971505	1.439E-07
WASHC3	0.1501669	1.503E-07
NDUFAB1	0.2483484	1.511E-07
TEDC1	-0.1390895	1.515E-07
ZC3H4	0.1429813	1.515E-07
C21orf62-AS	0.0938235	1.518E-07
LINC02802	0.0817793	1.555E-07
MS4A7	-0.150476	1.563E-07
NDST2	-0.1857246	1.605E-07
BAK1	-0.1968714	1.613E-07
AC244502.1	0.4256238	1.628E-07
GTPBP10	0.1163126	1.639E-07
RCN1	0.236028	1.646E-07
ST3GAL6	0.106695	1.651E-07
IER5	-0.2960734	1.652E-07
MECR	0.0752908	1.666E-07
FBXO9	0.1604183	1.683E-07
THUMPD1	0.2513563	1.696E-07
TMUB2	-0.1787468	1.708E-07
CDS2	-0.2679177	1.71E-07
GPX4	0.1467868	1.742E-07
TMEM220	0.2099348	1.754E-07

MAMDC2	-0.1098317	1.795E-07
ADSS	0.1532688	1.811E-07
IVD	0.2261893	1.827E-07
NDUFAF6	0.1487383	1.829E-07
GATAD1	0.2458795	1.847E-07
RTF2	-0.2428118	1.864E-07
IFNAR2	0.1740028	1.92E-07
HSPG2	-0.1974189	1.92E-07
SCFD2	0.0722131	1.947E-07
ANKRD27	0.1083342	1.948E-07
TMEM60	0.1539853	1.955E-07
HRH2	0.1182445	1.955E-07
CISD1	0.1589048	2.018E-07
IRF2BP2	0.3103783	2.029E-07
BIN2	0.2562982	2.081E-07
PRMT3	0.1226979	2.101E-07
HOMER3	0.1933325	2.109E-07
SEC22C	-0.1724932	2.11E-07
AC104041.1	0.1364973	2.111E-07
RALGAPA1	-0.1897485	2.168E-07
TMEM97	0.1293036	2.203E-07
INTS8	0.1717681	2.229E-07
L3HYPDH	0.0787884	2.254E-07
ZNF493	0.2185689	2.298E-07
CEP152	0.1371128	2.309E-07
C15orf61	0.1444849	2.311E-07
GINM1	-0.2429377	2.474E-07
OCEL1	0.1698709	2.479E-07
TNIP1	-0.2614089	2.5E-07
PREPL	0.116509	2.507E-07
IL6R	-0.2028505	2.53E-07
NOP58	0.2499435	2.574E-07
CCDC66	0.2074629	2.6E-07
AP1S1	0.1648947	2.616E-07
LAP3	0.1804776	2.673E-07
C19orf48	0.1482021	2.674E-07
ADAT2	0.1255657	2.715E-07
HDLBP	0.1740758	2.749E-07
ANO6	0.1385622	2.759E-07
LINC01684	0.2177977	2.826E-07
ADCY7	-0.1535477	2.828E-07
VANGL1	-0.2050494	2.864E-07
ZNF638	0.3236087	2.883E-07
CARD6	0.1416647	2.91E-07
GPSM3	-0.2528467	2.939E-07
DCXR	0.2200965	2.946E-07
SLC35A1	0.146273	2.947E-07
TNFAIP8	0.2668712	2.994E-07
ZNF573	0.0743116	3.07E-07
PRPF8	0.2441186	3.127E-07

MPST	0.195259	3.162E-07
ZMYM1	0.1716228	3.185E-07
DOK3	0.1634803	3.219E-07
MAPK12	0.0919034	3.225E-07
IFT74	0.1510561	3.234E-07
NIBAN2	-0.1074374	3.238E-07
GFI1	0.1996427	3.243E-07
SPPL3	-0.2187421	3.25E-07
EVI2B	0.2729593	3.269E-07
EEF1D	-0.1514209	3.325E-07
RRBP1	-0.1674084	3.354E-07
URB1	0.1155693	3.368E-07
NFXL1	0.1291109	3.432E-07
AC008267.5	0.0792933	3.48E-07
ACTN4	-0.2368079	3.497E-07
TRAP1	0.1207174	3.514E-07
NRAS	-0.268209	3.521E-07
PDLIM7	-0.1731414	3.555E-07
RAB6A	-0.2145941	3.599E-07
ZNF117	0.1511384	3.642E-07
CEP162	0.1389322	3.662E-07
UQCR11	0.2214519	3.722E-07
KIAA1841	-0.1337265	3.756E-07
IRF3	0.1473269	3.847E-07
RBM25	-0.286468	3.859E-07
CPSF3	0.1213753	3.898E-07
MCEE	0.1151215	3.906E-07
ZNF708	0.1705028	4.024E-07
CMIP	0.1404974	4.052E-07
DTWD1	0.205305	4.053E-07
TBL1XR1	0.1996897	4.078E-07
PPM1A	-0.1893595	4.135E-07
SUMO3	0.1729777	4.136E-07
CFAP20	-0.1587135	4.16E-07
TMX3	0.1682958	4.166E-07
PHPT1	0.1823021	4.168E-07
DDX23	0.1429193	4.168E-07
TRAF3	-0.2185167	4.174E-07
KCNK17	-0.2026877	4.238E-07
CCDC127	-0.1511858	4.242E-07
HS2ST1	0.1448638	4.25E-07
MMP24OS	-0.2284574	4.25E-07
GPR27	0.1553965	4.283E-07
PHF23	-0.2211883	4.309E-07
PDHA1	0.1556034	4.317E-07
PWWP2B	-0.1951163	4.327E-07
CCNY	0.1797933	4.342E-07
SDSL	0.2312506	4.366E-07
CCT8	0.1896496	4.372E-07
AC106791.1	0.1072463	4.372E-07

STAB1	0.2181969	4.46E-07
PUM3	0.2575601	4.486E-07
SCAMP1-AS	0.1463743	4.495E-07
ZNF121	0.1728304	4.496E-07
THBS1	-0.1439694	4.548E-07
FCHSD2	0.1829393	4.56E-07
GORASP2	-0.2014183	4.6E-07
RPL26L1	0.1230374	4.615E-07
TMEM43	-0.2341993	4.662E-07
WARS2-AS1	0.0917933	4.705E-07
TRPC4AP	-0.1212889	4.73E-07
RPS25	0.1229786	4.918E-07
ARF3	-0.2318782	4.921E-07
ATP6V0E1	0.2229275	4.985E-07
CAPN2	-0.1723729	5.006E-07
SNHG3	0.2722959	5.019E-07
AUXG01000	0.0831961	5.059E-07
GON7	0.135256	5.099E-07
MCFD2	-0.2006663	5.139E-07
NDUFAF4	0.1006424	5.26E-07
WDR74	0.1267513	5.315E-07
MYH9	-0.2787688	5.316E-07
PLXNA3	-0.1776363	5.373E-07
ATG7	0.1048899	5.405E-07
BMF	-0.2003569	5.558E-07
NCBP2	0.2249172	5.562E-07
STIM2	-0.2563067	5.7E-07
FOSB	0.2100205	5.76E-07
PSMD6	-0.24568	6.116E-07
NEXN	0.1084658	6.124E-07
LRRCC1	0.1730642	6.141E-07
PPDPF	-0.2523436	6.154E-07
ZNF22	0.2291454	6.2E-07
POLR2J3	0.2610958	6.284E-07
RPL22	0.1189822	6.291E-07
COX18	0.1303612	6.547E-07
RANBP1	0.272171	6.742E-07
TCF15	0.0665177	6.822E-07
RRM1	0.1480215	7.002E-07
SH2B2	-0.1184081	7.057E-07
SAMM50	0.1064973	7.12E-07
IER2	0.3760004	7.169E-07
CCDC91	0.1904639	7.177E-07
CCDC125	0.1790755	7.212E-07
HEBP1	0.198539	7.295E-07
DGKZ	-0.1902484	7.322E-07
NFKBIE	-0.1707384	7.397E-07
ZRANB1	-0.229776	7.412E-07
ECHS1	0.2004149	7.453E-07
IPO7	0.1849655	7.475E-07

RAB11FIP4	-0.1204946	7.539E-07
PABPC4	0.2319734	7.552E-07
EXOC2	0.0574847	7.636E-07
SPIDR	0.1458685	7.679E-07
SPHK1	-0.1290228	7.691E-07
ASCL2	0.0897862	7.738E-07
SPG21	0.1533271	7.851E-07
SZRD1	-0.2190981	7.913E-07
PDE4DIP	0.1126525	7.921E-07
RABGAP1	0.1825737	7.975E-07
PRMT5	0.1113701	7.979E-07
MED8	-0.144774	8.131E-07
AHCYL1	0.173282	8.216E-07
B3GALT4	-0.1411467	8.862E-07
CEP57L1	0.1362622	9.023E-07
BFAR	-0.1638173	9.035E-07
TRAF3IP1	0.1038408	9.049E-07
C12orf75	-0.1576502	9.061E-07
LITAF	-0.2124877	9.261E-07
ADO	0.0355059	9.448E-07
ASH2L	0.1123459	9.785E-07
CDH26	0.091401	9.785E-07
CENPB	0.112956	9.812E-07
SPAG1	-0.1364466	9.82E-07
RAB7B	0.1339423	1.021E-06
COA7	0.1122136	1.025E-06
MAPKAP1	0.1606116	1.027E-06
CCDC169	0.0914147	1.037E-06
SPRY2	0.0659457	1.038E-06
PFAS	0.0850006	1.045E-06
C11orf24	-0.0977209	1.046E-06
RASGRP2	-0.2221038	1.071E-06
PPP3CB-AS	0.1324567	1.073E-06
LAT2	0.2230633	1.087E-06
BZW1	-0.2501145	1.091E-06
OSCAR	-0.1867389	1.097E-06
HMG20B	0.074571	1.114E-06
LPIN1	-0.20641	1.141E-06
SCOC-AS1	0.0865705	1.207E-06
SNX18	0.0737617	1.226E-06
GLOD4	0.2169836	1.228E-06
CARF	0.106969	1.229E-06
ZNF302	0.2107644	1.253E-06
ZFP62	0.0903939	1.255E-06
NUP98	-0.2132841	1.257E-06
TMEM131L	-0.218613	1.27E-06
JMJD6	-0.2082857	1.275E-06
RNF13	0.1764903	1.296E-06
MRPL55	0.1917927	1.335E-06
CCDC102B	0.1152084	1.343E-06

MMRN1	0.2173596	1.349E-06
TMEM234	-0.1124745	1.356E-06
FUT8	0.0794214	1.361E-06
NT5C3B	0.1364811	1.365E-06
SLC30A9	0.1299298	1.376E-06
AC010642.2	0.1214594	1.377E-06
ELOA-AS1	0.0777132	1.38E-06
CYTH3	-0.0851968	1.397E-06
IFNGR1	-0.1710864	1.435E-06
APOL1	0.0836936	1.438E-06
MRPL50	0.1718838	1.445E-06
ZFR	-0.2458672	1.456E-06
CCT2	0.1787713	1.458E-06
ARPC5	0.286079	1.459E-06
ZNF727	0.1371533	1.47E-06
TMBIM6	-0.1944824	1.489E-06
SLC35B4	0.11269	1.496E-06
GADD45A	0.1232252	1.497E-06
DERL1	-0.2095081	1.507E-06
CTSH	0.1022984	1.514E-06
AL031595.3	-0.1390583	1.514E-06
CPSF7	-0.1679381	1.534E-06
MTHFD1	0.1518623	1.562E-06
BAG2	0.1229964	1.563E-06
LSM6	0.2055303	1.578E-06
PIP4K2B	0.1205345	1.625E-06
SLX4IP	0.1056843	1.627E-06
LINC00205	0.108329	1.642E-06
SFXN1	0.1087847	1.662E-06
TMEM209	0.1012716	1.665E-06
SLC39A8	0.1445381	1.67E-06
COA1	0.1359899	1.673E-06
ADI1	0.2487459	1.686E-06
CHMP5	0.1766353	1.695E-06
RABIF	-0.2069372	1.733E-06
ELF2	-0.1744704	1.733E-06
COL5A1	0.0759339	1.745E-06
CCT6A	0.2555242	1.747E-06
FURIN	-0.166267	1.769E-06
CHCHD10	0.2236183	1.772E-06
RNH1	0.1862984	1.778E-06
SPATA13	-0.1837728	1.789E-06
GAMT	0.1105731	1.802E-06
ERCC5	0.2032401	1.827E-06
EEF1AKNM1	0.130078	1.85E-06
PLXNB2	-0.2177494	1.874E-06
ASRGL1	0.1818374	1.881E-06
SH3TC1	-0.1856392	1.936E-06
SLC45A4	-0.1231133	1.938E-06
AK9	0.0921253	1.945E-06



TACC3	0.2359775	1.953E-06
TNRC6B	0.2466311	1.963E-06
C21orf58	0.1134978	1.99E-06
SCAND1	-0.2864685	2.055E-06
EHMT1	0.2352485	2.095E-06
PRRC2C	-0.2846617	2.113E-06
DMAC2L	0.1429951	2.158E-06
RALGAPA2	0.1281276	2.179E-06
STAT1	0.2065353	2.18E-06
SNX4	-0.1408246	2.181E-06
MPG	0.2991098	2.235E-06
WHAMM	-0.1739075	2.239E-06
CUL4B	0.1427953	2.243E-06
CTNS	0.0879929	2.248E-06
CCDC149	0.1333954	2.288E-06
PIN4	0.2187092	2.302E-06
PTS	-0.1716869	2.321E-06
CHMP2B	-0.199456	2.326E-06
MCM3	0.1637624	2.366E-06
SEC23IP	0.1430835	2.394E-06
YAF2	-0.1684076	2.405E-06
TCEAL3	-0.2241687	2.504E-06
GLCE	0.0760255	2.508E-06
GNL1	-0.1825786	2.637E-06
C15orf65	-0.099417	2.64E-06
APLP2	0.3046659	2.651E-06
ATF1	0.1091395	2.654E-06
TSGA10	0.1180868	2.675E-06
SELENOF	0.179887	2.691E-06
DTNBP1	0.1605602	2.702E-06
MRPL15	-0.1941751	2.716E-06
IFIT1	0.070375	2.719E-06
XAB2	-0.132423	2.768E-06
ATP2B1-AS1	-0.3239515	2.776E-06
TFE3	-0.1327455	2.785E-06
ITGA6	0.1510266	2.827E-06
PNKD	0.218447	2.831E-06
ZNF397	0.1662873	2.888E-06
GMEB2	-0.1167362	2.909E-06
POLR1E	0.1356581	2.927E-06
TRAK2	0.1564464	2.937E-06
HMGB2	-0.2732089	2.94E-06
RAB22A	-0.2356378	2.968E-06
CCDC25	0.1407342	2.978E-06
VWA8	0.0691843	2.979E-06
NEK1	0.1006629	2.98E-06
THOC6	0.1096575	3.012E-06
RPS10	-0.2079979	3.053E-06
PDLIM2	-0.1830692	3.057E-06
PRRG4	0.1133069	3.064E-06

SUCLG2	0.1388429	3.093E-06
C1orf131	0.1633488	3.109E-06
CCT7	0.239238	3.16E-06
PGK1	-0.1855915	3.171E-06
EXOSC2	0.1159542	3.2E-06
ALAD	0.0829401	3.269E-06
ABCE1	0.2571374	3.294E-06
UMODL1-AS	0.0860346	3.295E-06
ATP5MPL	0.2444265	3.3E-06
N4BP2L2	0.2366149	3.3E-06
MRPS5	0.2123079	3.38E-06
STK11	0.1045622	3.405E-06
FAM50B	0.0996079	3.414E-06
SCCPDH	0.1967778	3.443E-06
MVP	-0.174266	3.549E-06
CWC25	-0.2134015	3.549E-06
NAT10	0.1780774	3.564E-06
LMBRD2	0.0708609	3.6E-06
TMEM242	-0.1469989	3.61E-06
AIF1	-0.1843768	3.731E-06
LONRF1	-0.2019923	3.909E-06
TSR1	0.1741351	3.925E-06
PDCL3	0.1419643	3.946E-06
XPO5	0.0902222	3.983E-06
ALKBH2	0.1136367	3.986E-06
KAT6B	0.1394763	3.994E-06
CAMK1D	-0.2097377	4.06E-06
MAGOHB	0.128649	4.084E-06
NUFIP1	0.0965158	4.108E-06
STAU2	0.1377132	4.148E-06
KMT2B	0.1152218	4.161E-06
PRELID1	-0.2337818	4.17E-06
POLE	0.1320077	4.211E-06
RPRD1B	-0.1743562	4.231E-06
MYO18A	0.1117023	4.292E-06
BRI3	0.2191319	4.298E-06
PTGER2	-0.1875585	4.319E-06
GNG10	0.1511792	4.321E-06
PFDN6	0.1411992	4.323E-06
PPM1H	0.0699612	4.427E-06
GLTP	-0.1527447	4.469E-06
ADRM1	-0.2049198	4.504E-06
AC004687.1	0.3328155	4.508E-06
HIST1H2BG	-0.133479	4.673E-06
HNRNPH1	-0.1985717	4.749E-06
DCTN4	-0.2140442	4.753E-06
UBXN7	-0.2186873	4.79E-06
PCNX4	0.1953444	4.848E-06
LIG4	0.1321676	4.916E-06
GPALPP1	0.1903678	4.993E-06

MFSD3	0.0983475	4.994E-06
GNG7	0.1535578	5.003E-06
KIAA0232	-0.2102032	5.051E-06
TIFA	0.0794561	5.065E-06
PIK3CA	-0.2113352	5.092E-06
FAN1	0.074617	5.12E-06
STRADB	0.1169805	5.192E-06
MAGOH	-0.1873185	5.23E-06
ELOC	-0.2102336	5.248E-06
ALG6	0.0863648	5.304E-06
UROS	0.2661621	5.315E-06
TMEM147	0.1977568	5.389E-06
NFIC	0.2127021	5.41E-06
RBFA	0.1824728	5.42E-06
PSIP1	0.2566527	5.429E-06
POMP	-0.2443886	5.476E-06
GALNT7	0.2521388	5.537E-06
DNAJC5	-0.1503725	5.569E-06
CEBPZ	0.2866349	5.586E-06
METAP1D	0.1092951	5.611E-06
CAMTA1	-0.2084837	5.855E-06
INF2	-0.151924	5.859E-06
SMARCC2	0.197982	5.945E-06
NECTIN2	-0.1581	5.961E-06
GSKIP	-0.1482234	6.002E-06
ARHGAP32	0.0727915	6.048E-06
SGPL1	-0.1535901	6.071E-06
CREB3	-0.1522294	6.184E-06
PRKCD	-0.1772692	6.22E-06
GAS6-AS1	0.1541189	6.229E-06
KAT14	0.0962672	6.345E-06
PET117	0.1029653	6.361E-06
ANKRD11	0.0531067	6.382E-06
SPATA5	0.1002014	6.513E-06
TRAPPC4	-0.1954911	6.524E-06
NDUFS2	0.2135148	6.696E-06
IL12A-AS1	0.1530537	6.768E-06
FNDC10	0.0576819	6.837E-06
LMO4	0.1998814	6.917E-06
PPM1F	-0.2204376	6.924E-06
SCLY	0.0731974	6.969E-06
TIA1	0.1915443	7.012E-06
BLOC1S5	0.1398453	7.11E-06
DCTN3	-0.1862839	7.127E-06
GEMIN6	0.125883	7.141E-06
GNG5	-0.1878487	7.167E-06
ACSF3	0.1999214	7.26E-06
STK26	0.205373	7.375E-06
PHF1	-0.1782771	7.556E-06
ZNF322	0.1392258	7.581E-06

RPS13	0.1164715	7.599E-06
DPPA4	0.148359	7.606E-06
AIP	0.1037874	7.608E-06
UQCRHL	0.0540309	7.702E-06
NAE1	0.1444503	7.711E-06
STIP1	0.1559442	7.731E-06
CXCL2	0.0936338	7.772E-06
ABI1	-0.252908	7.962E-06
ZDHHC21	0.1695552	7.971E-06
PTCD2	0.0896565	8.005E-06
ORC2	0.1321736	8.05E-06
C19orf12	-0.1278952	8.172E-06
FADS3	-0.1684835	8.215E-06
CERT1	-0.2524795	8.23E-06
CAPN1	-0.2117461	8.238E-06
UTP20	0.1484771	8.26E-06
TOP1MT	0.1245782	8.296E-06
MOB2	-0.0565428	8.355E-06
DDX27	0.180723	8.408E-06
DIPK2A	0.1334472	8.681E-06
KANTR	0.1352464	8.727E-06
TMEM126B	0.1832458	8.75E-06
CSF2RB	0.2009275	8.803E-06
NNT-AS1	0.1441449	8.827E-06
MORC2	0.1585749	8.883E-06
UBXN8	0.0667059	8.963E-06
TAF4B	0.0793652	8.983E-06
FBXO4	0.088449	8.997E-06
CARD9	0.0964738	9.124E-06
UBA3	0.1712456	9.257E-06
AFG3L2	0.1561984	9.3E-06
ANAPC11	0.1781636	9.476E-06
IFT22	-0.1669002	9.537E-06
HCFC2	-0.1207316	9.662E-06
VPS53	0.1513919	9.695E-06
LINC01637	0.1054373	9.862E-06
PCNT	0.1170313	1.002E-05
DHODH	0.1094256	1.025E-05
PAXBP1	0.2119208	1.033E-05
THOC3	0.1306109	1.039E-05
GLT8D1	0.1013054	1.06E-05
PIP4K2A	0.132865	1.063E-05
LINC02245	0.1053434	1.064E-05
SUN1	-0.1641862	1.069E-05
LAMP2	0.218038	1.074E-05
SAMD1	0.1009354	1.075E-05
ZMPSTE24	0.0977718	1.089E-05
SLU7	-0.2360711	1.101E-05
TCEANC2	0.1157607	1.123E-05
PRDX4	0.2006393	1.123E-05

PRSS2	-0.5946033	1.128E-05
KIAA0100	0.1591863	1.129E-05
SNRNP200	0.1846458	1.129E-05
ANXA6	-0.1754384	1.135E-05
AL360012.1	0.0524843	1.142E-05
NR1D2	0.095972	1.147E-05
SLC31A2	-0.0954254	1.16E-05
H2AFY2	0.0969709	1.174E-05
NPW	0.2071708	1.18E-05
BRD8	0.2238634	1.187E-05
AC016831.7	-0.1297778	1.193E-05
QKI	0.1854151	1.199E-05
SNHG20	0.0973429	1.203E-05
ALDH18A1	0.1021932	1.208E-05
SELENOH	0.2182072	1.215E-05
CDKL3	0.0600457	1.222E-05
MYLK-AS1	0.0882268	1.246E-05
ALCAM	0.2085197	1.249E-05
VPS25	0.0862665	1.257E-05
PXN-AS1	0.0733828	1.265E-05
PEF1	-0.198123	1.282E-05
TTN-AS1	0.1254542	1.294E-05
DCAF17	0.1051584	1.306E-05
RBM22	-0.1190041	1.307E-05
ECM1	-0.1436047	1.32E-05
SLIRP	0.2430614	1.322E-05
BX890604.2	0.2120666	1.34E-05
VSIG10	0.1089629	1.343E-05
ANAPC5	0.2285296	1.37E-05
CD79B	0.1446143	1.384E-05
NACC2	-0.087902	1.387E-05
CRYBG3	0.1600841	1.39E-05
ZNF598	-0.14074	1.4E-05
USP22	-0.2316276	1.402E-05
THAP11	-0.1192223	1.409E-05
IL27RA	-0.2806117	1.409E-05
SSRP1	0.1877261	1.41E-05
DEGS1	-0.2034136	1.413E-05
RNF25	-0.106972	1.44E-05
NUDT9	0.0949343	1.44E-05
SLC16A1	0.0940336	1.449E-05
NUP133	0.1066783	1.45E-05
MTHFS	0.1306294	1.452E-05
HNRNPA3	-0.2689623	1.46E-05
TPP1	0.2053468	1.461E-05
P2RY8	0.1345568	1.485E-05
PINX1	0.1067745	1.516E-05
TRIM47	-0.085008	1.516E-05
SURF2	0.0576991	1.545E-05
RNASEH1-A	0.0817122	1.548E-05

PRMT7	0.1286899	1.551E-05
LAMTOR2	0.2275106	1.561E-05
MARC2	0.0847359	1.567E-05
FECH	0.1242999	1.568E-05
ST3GAL4	0.1609577	1.575E-05
NSUN6	0.1351488	1.59E-05
LINC00467	0.1151457	1.595E-05
LINC01215	-0.1228222	1.596E-05
RPARP-AS1	0.1894783	1.645E-05
SCHIP1	0.1436796	1.645E-05
SLC25A46	0.1549451	1.658E-05
FAM219B	-0.1803705	1.671E-05
NDUFA6	-0.1916533	1.676E-05
GNPDA2	0.0650836	1.683E-05
MPDU1	-0.1156609	1.684E-05
FBXO25	0.1060411	1.696E-05
SNHG30	0.1638461	1.705E-05
P2RY1	0.0764312	1.705E-05
SMIM10	0.0710522	1.72E-05
AMPD3	0.0694388	1.726E-05
GFOD2	-0.1014101	1.732E-05
KTN1-AS1	0.0512618	1.735E-05
ATP6V1F	0.2628821	1.735E-05
ASAP1	0.1020315	1.751E-05
RTN3	0.2065009	1.759E-05
SUSD3	0.0856607	1.768E-05
NAPEPLD	0.113683	1.797E-05
COX15	0.1144825	1.814E-05
NDUFA2	0.1830166	1.817E-05
FGD4	0.1180707	1.82E-05
MIRLET7BH	-0.1824497	1.829E-05
MARS	-0.1370591	1.831E-05
MRM1	0.0543433	1.835E-05
INTS6	-0.2790823	1.851E-05
ITFG1	0.0649384	1.872E-05
PLXNC1	0.1193274	1.95E-05
OSGEPL1	0.1055272	1.957E-05
EHBP1	0.102633	1.968E-05
MCRIP1	-0.1790221	1.969E-05
MRPL12	0.2207391	1.971E-05
RNF44	0.1065772	1.972E-05
MEGF8	0.0638439	1.986E-05
COG2	0.126401	1.993E-05
WHRN	-0.081528	2.009E-05
SNRNP25	0.1566281	2.013E-05
COX5A	0.1280813	2.015E-05
GALM	0.0420181	2.076E-05
AC093157.1	0.0901915	2.082E-05
POLR2B	-0.0912014	2.11E-05
C12orf29	0.1020083	2.117E-05

C7orf50	0.11986	2.136E-05
BICD2	-0.1988133	2.14E-05
MT1X	0.0773512	2.154E-05
NPRL2	0.1331174	2.163E-05
STUB1	0.137001	2.165E-05
NRBP1	-0.2028807	2.171E-05
KDM6A	-0.1750541	2.185E-05
HENMT1	0.1107377	2.196E-05
ATP6V0A2	0.1725303	2.196E-05
SLC46A3	0.117618	2.203E-05
CBL	-0.2073511	2.23E-05
SMIM20	0.1659876	2.236E-05
RUNX2	0.1641117	2.236E-05
RSRC1	0.2139695	2.252E-05
XRCC4	0.0788203	2.273E-05
PTMA	0.1428018	2.277E-05
PPP2R2A	-0.2023528	2.285E-05
HYAL3	0.0806917	2.292E-05
EIF4EBP3	0.215049	2.314E-05
ATP10D	0.1089661	2.316E-05
UBIAD1	0.0851845	2.319E-05
SCRN3	0.0801386	2.323E-05
SLC27A5	0.129856	2.34E-05
SELPLG	0.1339853	2.34E-05
G6PD	-0.2036829	2.357E-05
SRSF1	0.2866816	2.357E-05
LARP4	0.1266373	2.387E-05
LCP2	0.1052543	2.389E-05
DEPDC1B	0.0811089	2.398E-05
EIF2AK1	0.2701757	2.403E-05
COPA	-0.1583778	2.423E-05
RAF1	-0.1406154	2.425E-05
GLI4	0.1167042	2.427E-05
RNF187	0.1456649	2.442E-05
DLGAP4	-0.1815085	2.458E-05
EIF4EBP1	0.2043599	2.537E-05
DCPS	0.1483685	2.544E-05
ACADVL	-0.1866027	2.57E-05
CTPS1	0.1595447	2.622E-05
NDUFB5	0.2195154	2.632E-05
UBALD2	-0.1501224	2.635E-05
PRKCQ	0.1071594	2.663E-05
DNAJC10	0.2102626	2.696E-05
ARFGAP2	-0.1778674	2.699E-05
RPL26	0.1441725	2.707E-05
PBX3	-0.2595178	2.707E-05
NARF	-0.1814211	2.714E-05
MRPL39	-0.1208845	2.779E-05
PRDM8	-0.144619	2.837E-05
PHF6	0.1807576	2.85E-05

ADARB1	0.0749979	2.854E-05
WDR46	0.1508818	2.897E-05
TFEB	-0.1528887	2.933E-05
KBTBD2	-0.1906094	2.943E-05
SLX4	-0.0865257	2.945E-05
ASPSCR1	0.1203025	2.946E-05
DHRS4	0.1118773	3.003E-05
CD52	-0.2448131	3.01E-05
ZNF106	0.1975109	3.024E-05
DMTN	-0.085421	3.071E-05
AC105285.1	0.1358587	3.097E-05
SCAMP1	0.1320701	3.127E-05
CISD3	0.1670669	3.19E-05
HELLPAR	0.1486954	3.213E-05
SYNE1	0.1034278	3.218E-05
RXFP1	0.1042708	3.254E-05
TYW1	0.0783256	3.27E-05
SS18L2	0.0929666	3.319E-05
CCDC61	0.0559383	3.353E-05
APH1A	-0.1386392	3.427E-05
LINC02693	0.056634	3.486E-05
SIN3A	-0.1836329	3.508E-05
DERA	0.1118253	3.519E-05
CISH	0.1311302	3.538E-05
MRPS15	0.1565357	3.544E-05
AL356804.1	0.1053854	3.578E-05
NCBP2AS2	0.1473792	3.586E-05
MBLAC2	0.1036151	3.588E-05
CYBRD1	0.1740836	3.59E-05
NINJ2	0.0933546	3.631E-05
KIFC3	-0.1457341	3.664E-05
GID4	0.0913246	3.706E-05
DPH5	0.09931	3.706E-05
ISG20	-0.1274799	3.738E-05
C5orf24	0.1934922	3.74E-05
PYCR2	0.1860636	3.817E-05
PECAM1	0.2612844	3.818E-05
RASA4	0.1020224	3.825E-05
TTLL1	0.0799127	3.834E-05
SYTL1	-0.1657564	3.88E-05
C17orf49	-0.2287291	3.882E-05
BCL7A	0.1434104	3.897E-05
CD2AP	-0.2564925	3.899E-05
ZNF431	0.2351568	3.957E-05
SYVN1	-0.1722696	3.986E-05
ZNF609	0.1364281	4.014E-05
DGLUCY	0.2071543	4.058E-05
ZBTB34	-0.1079816	4.101E-05
PELP1	0.1022925	4.138E-05
SNHG4	0.1878673	4.154E-05



FAM114A2	0.1416943	4.164E-05
ZNF395	-0.2133084	4.18E-05
WDR13	-0.2026031	4.203E-05
ELP1	0.0755014	4.233E-05
FARSA	0.2174412	4.268E-05
ATR	0.1701247	4.297E-05
RPP40	0.1152524	4.407E-05
LINC00910	0.0418104	4.431E-05
MRPS25	0.162172	4.434E-05
KIF20B	0.2636864	4.473E-05
RAB38	0.1227519	4.484E-05
ZNF83	0.1460074	4.501E-05
SCP2	0.2378827	4.52E-05
SERPINB9	-0.195691	4.528E-05
KAT5	-0.1421287	4.528E-05
PIBF1	0.1602887	4.632E-05
RCCD1	0.0960608	4.64E-05
SH3D21	0.1623012	4.656E-05
TRIM22	0.1814293	4.713E-05
CEP44	0.108729	4.723E-05
AC026124.1	0.1219187	4.729E-05
PPIL3	0.0889984	4.738E-05
PUM1	-0.2130883	4.743E-05
SLC35B3	0.0772051	4.756E-05
MRPS28	0.1415478	4.759E-05
LLPH	0.1494226	4.857E-05
SEC63	0.1709874	4.861E-05
GARS	-0.2188078	4.868E-05
KLHL26	-0.0782925	4.917E-05
TMEM14A	0.0895327	4.939E-05
SRPK2	0.0823721	4.973E-05
TTC14	0.2440985	4.979E-05
BSG	-0.2208113	4.987E-05
PTGES3	0.2185274	4.991E-05
TLR6	0.0795602	5.054E-05
C11orf1	0.1124768	5.146E-05
MED15	-0.1519922	5.165E-05
FAM13A	0.061687	5.183E-05
ATP5MF	0.20224	5.183E-05
DCAF15	-0.1514451	5.209E-05
AC246817.1	0.086648	5.254E-05
CDKN1B	0.0834056	5.286E-05
HAUS2	-0.1906099	5.294E-05
LRP10	-0.1291609	5.343E-05
TCEAL1	0.1168852	5.347E-05
IL4R	-0.1549948	5.358E-05
RYK	0.1377585	5.404E-05
GPCPD1	-0.2032496	5.417E-05
MYO9A	0.1366746	5.467E-05
ZNF593	0.1734978	5.498E-05

AFTPH	-0.2270377	5.53E-05
MRTFA	-0.1952471	5.531E-05
VWA5A	0.0765377	5.611E-05
USP9X	-0.1986144	5.66E-05
MAGT1	-0.1571922	5.729E-05
MECP2	-0.0999913	5.753E-05
RPS15	0.0992847	5.77E-05
PDAP1	0.1726754	5.781E-05
MAGEF1	0.0998922	5.801E-05
CD48	-0.064962	5.807E-05
CASP7	-0.1291924	5.853E-05
TPST2	-0.1200958	5.92E-05
GSE1	-0.2162452	5.955E-05
MTRNR2L8	0.1725768	6.134E-05
EDEM2	0.1118505	6.192E-05
SIRPA	0.0772266	6.213E-05
NUDT4	0.0791756	6.239E-05
LSM1	-0.1147502	6.297E-05
ATE1	0.1230081	6.348E-05
PPP5C	0.0643062	6.476E-05
B2M	-0.1345601	6.493E-05
DUSP1	0.305694	6.512E-05
AC097448.1	0.0695795	6.513E-05
NR1D1	0.0487706	6.531E-05
CCDC173	-0.108294	6.584E-05
UBE2G1	-0.1106565	6.734E-05
ATG4C	0.1511469	6.827E-05
GNL3L	0.1715472	6.828E-05
GAR1	0.1552459	6.836E-05
ACTR6	0.1340396	6.852E-05
SPRED2	-0.1312713	7.023E-05
TAS2R14	0.0625284	7.162E-05
TTN	0.0631676	7.227E-05
OAT	0.1316836	7.275E-05
SLC5A6	0.0610032	7.376E-05
COX6A1	-0.2006584	7.415E-05
CASP6	0.175839	7.431E-05
SLC29A1	0.0770909	7.457E-05
CALR	-0.3155192	7.583E-05
HSH2D	0.1758209	7.586E-05
RNF34	-0.1712772	7.591E-05
XRRA1	0.0674267	7.625E-05
ELANE	0.3237106	7.63E-05
EIF1B-AS1	0.1024755	7.708E-05
RSAD2	0.0924536	7.737E-05
PRNP	-0.1792114	7.93E-05
AP3S1	-0.1702719	7.953E-05
WBP1L	-0.1850811	7.961E-05
CEP250	0.0703003	7.993E-05
CD3EAP	0.0940384	8.004E-05

SMURF2	-0.1529025	8.014E-05
ZNF594	0.0773095	8.037E-05
LSM5	0.1709707	8.087E-05
CNTLN	0.1560479	8.101E-05
TBC1D13	0.1164211	8.114E-05
MRPL49	-0.1191262	8.171E-05
ATP6V1D	-0.1613833	8.181E-05
USP15	-0.2630632	8.302E-05
HLA-C	-0.2313106	8.322E-05
RNF181	-0.2043039	8.355E-05
TMEM80	0.1486573	8.368E-05
CDK19	0.1035378	8.432E-05
CHKA	0.0667792	8.467E-05
HUWE1	0.2354322	8.499E-05
RAD17	0.1080389	8.691E-05
TXK	0.1036747	8.843E-05
STK19	-0.1185817	8.856E-05
CACYBP	0.1418154	8.886E-05
TTC19	0.211984	9.123E-05
AC060780.1	0.189324	9.127E-05
PGBD4	0.0941804	9.194E-05
FAM160B2	-0.1119646	9.244E-05
DNAJC12	0.1166822	9.275E-05
CHPF2	-0.1231308	9.307E-05
UBE2F	0.1261662	9.36E-05
WAC-AS1	0.1651416	9.388E-05
DUBR	-0.109708	9.393E-05
PSMD11	-0.205154	9.418E-05
KCNQ5	0.1036377	9.492E-05
TCTN3	0.1394535	9.534E-05
CCNC	-0.1353492	9.671E-05
MLX	-0.102316	9.715E-05
DHX37	0.1140915	9.729E-05
PAXIP1-AS2	0.1134081	9.808E-05
PRR11	0.1086893	9.824E-05
FKBP3	0.1437151	9.875E-05
MACROD1	0.0916666	9.936E-05
CST3	0.410493	9.994E-05
AL157895.1	0.2291599	0.0001015
MTRES1	0.1048796	0.0001017
ZNF358	0.1143405	0.000104
SP110	0.2054365	0.0001041
MXI1	0.1655775	0.0001042
C20orf197	0.1014669	0.0001054
FBXO7	-0.2144561	0.0001055
GPN3	0.1763366	0.0001073
WDR36	0.1496938	0.0001096
TMA7	0.1482992	0.0001111
POU2F1	-0.131459	0.0001124
BRD3	0.1041846	0.0001137

LRP5	0.0734625	0.0001139
CUTA	0.2230515	0.0001144
HNRNPM	0.2071203	0.0001155
ERI2	0.0921693	0.0001173
RBM42	-0.1644737	0.0001175
CXorf21	0.1894291	0.0001186
H2AFZ	0.151991	0.0001199
SH3BP1	-0.174485	0.0001205
MCCC1	0.0718199	0.0001207
GABARAPL2	0.1347042	0.0001225
FBR5	-0.1857768	0.0001225
SENP6	0.2311254	0.000123
USP3	-0.1489547	0.0001235
TP53TG1	0.1307051	0.0001242
MRPL47	-0.1886233	0.0001253
DNAJC21	0.2119348	0.0001259
AL357079.1	0.0781621	0.0001266
PLEKHM3	0.071663	0.0001278
MCTS1	0.1980542	0.0001278
EIF2B3	0.103581	0.0001285
UPF3A	0.1836518	0.0001286
PRDX1	0.2340578	0.0001288
RPSA	-0.1805505	0.0001296
HEBP2	-0.1747539	0.0001298
CARS	-0.1628182	0.0001306
TIMM23B	-0.0847023	0.000131
PTX3	-0.19106	0.000132
KLHL18	-0.1808725	0.0001329
NANOS3	-0.0716311	0.0001333
ZNF518B	0.0688258	0.0001335
NIF3L1	0.0752319	0.0001338
METTL26	0.2212076	0.0001343
RIC8B	0.0580747	0.0001344
ZNF844	0.0590724	0.0001346
YWHAB	0.1973946	0.0001348
DPYD	0.1581503	0.0001348
CTSA	0.2284728	0.0001356
DPH6	0.0888503	0.0001361
HDAC2	0.1946758	0.0001377
ARHGAP9	-0.1327515	0.000138
MATK	0.1731024	0.0001381
RPL17	0.1200721	0.0001386
NBPF19	0.082191	0.0001387
ALG2	-0.1557004	0.0001387
BLOC1S4	0.0408846	0.0001391
RAB35	-0.1483961	0.0001402
EBLN3P	0.1348911	0.0001404
VEGFA	-0.11957	0.0001408
RPP25L	0.1791573	0.0001429
NUP54	-0.1079894	0.000143

ZNF414	-0.1351441	0.0001436
AKAP9	0.2980566	0.0001442
POLI	0.0856873	0.0001444
SEC24B	-0.1518942	0.0001445
DDX3X	0.2589375	0.0001446
UPF3B	0.1306563	0.0001449
AHDC1	-0.262073	0.0001461
IGFBP6	-0.0888179	0.000147
CCDC88B	-0.188259	0.0001473
RHOBTB3	0.1362152	0.0001487
LSM4	0.1976645	0.0001513
MPHOSPH9	0.1871589	0.0001521
TRERF1	0.0699235	0.0001531
ILF3-DT	0.2082375	0.0001531
NT5C3A	-0.1904961	0.000154
CCDC121	0.0684486	0.0001543
TMEM160	0.1869443	0.0001546
TM4SF1	-0.19385	0.0001554
THAP2	0.0942978	0.0001556
PGM2	0.1769141	0.0001561
RESF1	0.1605392	0.0001584
TAGLN	0.0767441	0.0001595
MRPS30	0.1807434	0.0001604
CA2	0.151023	0.0001614
PRPF4B	-0.2918473	0.0001618
RNF144B	0.0650521	0.0001641
RHBDD2	-0.1589377	0.0001643
PXN	-0.153908	0.0001648
ADAMTS6	0.0765297	0.0001657
STX18-AS1	0.0701684	0.0001701
SSBP4	-0.1549938	0.0001724
AC025040.1	0.0619201	0.0001746
NKAP	0.1224498	0.0001802
FAM228B	0.1410344	0.000182
QDPR	0.1606987	0.0001826
ZNF385A	-0.1664755	0.0001826
THAP5	0.129723	0.0001849
FAM47E	0.0551974	0.000185
DTX3L	0.1389026	0.0001856
LENG8-AS1	0.1262676	0.0001858
ZNF383	0.0776451	0.0001859
KCTD5	-0.0967504	0.0001861
SETD2	-0.2414466	0.0001861
SPECC1	0.1840034	0.0001867
DPF2	-0.0974929	0.000188
MARCKS	-0.1864496	0.000188
ARSD	0.1247427	0.0001883
TFAM	-0.2359549	0.0001897
RHOT1	0.1495399	0.0001897
HDHD5	0.0840648	0.0001935

NUP153	-0.1383455	0.0001942
DIAPH2	0.1743131	0.0001951
AC004540.1	0.0934155	0.0001952
ATP1B3	0.2054723	0.0001954
HELB	0.1285238	0.0001961
CYP4V2	0.0890753	0.0001962
LINC00339	0.1011091	0.0001971
NMRAL1	0.1414916	0.0001985
SKIDA1	0.1622846	0.0002003
RRS1	0.1855408	0.0002025
AGPS	0.1051372	0.000203
CKLF	-0.3594581	0.0002034
PIGS	0.1172014	0.0002044
UBE2T	0.072036	0.000206
SLC39A11	0.0863631	0.0002107
SWI5	0.1334922	0.0002107
SSB	0.2730724	0.0002111
EEF1E1	0.1956255	0.0002144
PSPH	0.0562485	0.0002147
MKLN1	-0.1842244	0.0002154
FAM92A	0.1501171	0.0002202
HSBP1L1	0.1291172	0.0002229
LPXN	-0.1707924	0.0002249
POLR3D	0.1669411	0.0002254
ERP44	-0.1952545	0.0002261
UCHL5	0.1904981	0.0002264
PQBP1	0.1389607	0.0002284
BRD1	-0.1426116	0.0002309
SRA1	-0.1696189	0.0002315
ZNF174	0.0540558	0.0002329
NBPF14	0.0682437	0.0002351
TMEM251	0.1139973	0.0002372
PPARGC1B	0.0867763	0.0002405
ZNF48	-0.1560745	0.0002428
FBH1	0.1141185	0.0002442
SVOPL	0.0540729	0.0002472
BMP2K	0.21601	0.0002475
TUBB	-0.3276012	0.0002475
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KDM1A	0.2156353	0.000256
COQ9	0.098441	0.00026
LYPLAL1	0.1426222	0.0002602
DYNLL1	0.1853618	0.0002613
PPM1B	-0.2120446	0.0002659
TCFL5	0.0614066	0.000266
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TP53I11	-0.1083907	0.0002677
MRPS22	-0.1685215	0.0002685
IFIT3	0.0752807	0.0002694
CD55	-0.2426543	0.0002702

BTBD7	-0.2209251	0.0002705
EXTL2	0.1193102	0.0002717
TMED10	-0.2124949	0.0002718
MRPL10	-0.1205086	0.0002735
PLPBP	0.1530268	0.0002742
TTC24	0.1149443	0.0002758
TIMM17A	-0.1887774	0.0002798
PLXDC2	0.1303319	0.0002813
JTB	0.1710412	0.000282
SSBP3	0.1657059	0.000284
STAT3	-0.1212495	0.0002852
LIPA	0.0949398	0.0002852
CDCA7	0.1236286	0.000286
EXOSC3	-0.0220328	0.0002866
MOSPD1	0.0504256	0.0002922
SKP2	0.0724678	0.0002939
PSMB2	-0.1543116	0.0002939
KIAA0586	0.1287937	0.0002957
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RELT	-0.2525892	0.0002988
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CDK16	-0.0820401	0.0003009
LARP1	0.2028199	0.0003022
TAF1	0.0845741	0.0003036
TATDN1	0.231831	0.0003037
PLXND1	0.1774811	0.0003041
THAP6	0.0981571	0.0003043
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SNUPN	0.1393909	0.0003093
NPM3	0.1282924	0.0003104
UGP2	0.2778514	0.0003114
NUP50	-0.0553907	0.0003117
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MGLL	-0.023256	0.0003182
C1orf162	0.1446622	0.0003213
LDAH	0.0950068	0.0003226
SHMT1	0.0713147	0.0003246
ZNF574	-0.0835538	0.0003277
MAPRE2	-0.2463721	0.0003292
SHANK3	-0.0548509	0.0003302
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NIPBL-DT	0.1676969	0.0003325
RPA2	0.1347229	0.0003357
DST	0.1088062	0.0003374
GTPBP4	-0.1823688	0.0003379
CHMP4A	0.1491263	0.0003385
SEC62	-0.1872898	0.0003426
CLTB	-0.0772347	0.0003426
LTC4S	0.1933781	0.0003434
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MAPK8IP3	-0.079204	0.0003506
TM9SF4	0.0929172	0.0003511
CD79A	-0.1176638	0.0003557
DHTKD1	0.1774071	0.000356
ARL8B	-0.1741739	0.0003567
CCDC57	0.1160509	0.0003605
ENOX2	0.0874907	0.0003629
OAF	-0.0786617	0.0003716
EIF2AK2	0.1810755	0.0003743
AC090825.1	0.0620939	0.0003746
CRLS1	0.1048097	0.0003796
EIF4E	-0.1587467	0.0003801
TSC22D4	0.176696	0.0003867
MESD	0.1980266	0.0003886
ZDHHC7	-0.1280564	0.0003908
ASPH	0.1702596	0.0003946
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XPNPEP1	-0.1224585	0.0003971
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MAP2K4	-0.1173332	0.0003996
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NDRG1	-0.240277	0.0004041
TMEM59	-0.2055585	0.0004042
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PALB2	0.0551832	0.0004062
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TMEM259	-0.1729876	0.0004128
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DNAAF5	0.0674661	0.0004245
ALKBH3	0.0913956	0.0004248
PPP1R7	0.1432091	0.0004285
C3orf33	0.0600438	0.0004331
OGFOD2	0.0754177	0.0004348
CD34	-0.0873813	0.0004379
NPR3	0.1986723	0.0004394
ARMC1	0.0969758	0.0004395
SULT1A1	0.1350297	0.0004401
ZNF622	-0.1382788	0.0004407
JAK1	0.1015996	0.0004409
DHRS7B	0.1437158	0.0004412
NEK6	-0.1601061	0.0004418
ATP6V0B	0.1660739	0.0004457
ACSL3	-0.1557747	0.0004486
ACSL5	0.0997716	0.0004504
UBL7-AS1	0.0858468	0.0004666
ZMYM3	0.0938082	0.0004702
TRMT112	0.2062527	0.0004705
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RFTN1	0.1181104	0.0004754



RPIA	0.1451757	0.0004764
SNAPC1	0.0788472	0.0004773
NAALADL1	0.0789436	0.000478
PRDX2	0.1600647	0.0004781
DAD1	0.1331743	0.0004792
CLSTN1	0.0893353	0.0004821
THUMPD2	0.0985564	0.0004847
AIFM1	0.1306876	0.0004858
ZNF33A	0.1177234	0.0004875
AP1AR	0.113368	0.0004902
WASHC5	0.1124867	0.0004924
FAU	-0.1414941	0.0004932
AGGF1	0.1578384	0.0004947
PTGER4	0.1608532	0.0004972
COQ2	0.0838411	0.000498
HEATR3	0.0870517	0.000507
MT-ATP8	0.2000743	0.00051
SPRYD7	0.076646	0.0005141
C12orf73	0.113697	0.0005153
DHRS4-AS1	0.1010865	0.0005169
TNFSF4	0.1113754	0.0005193
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WDPCP	0.1059112	0.0005312
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MPP1	0.1863421	0.0005329
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POU5F2	0.0538557	0.0005402
NSFL1C	-0.1626833	0.000549
EXOSC8	0.1464325	0.0005509
PSEN1	-0.1998615	0.0005534
GLB1	0.1070917	0.0005545
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PRPS2	0.0846432	0.0005616
AEBP1	0.0929208	0.0005697
CCDC174	-0.1678432	0.0005752
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PCBP1	0.1498471	0.0005768
IFIT5	0.0713546	0.0005784
NOL10	0.0995018	0.0005791
MICU1	0.1380509	0.0005843
RAE1	-0.1494584	0.0005956
DCP2	0.131678	0.0006006
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SNAP29	-0.1366855	0.0006071
BLM	0.1112478	0.0006126
ARFIP1	0.0547817	0.0006248
CYB5RL	0.059709	0.0006288
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MIS18A	0.1279367	0.0006683

SH3KBP1	0.2344093	0.0006749
BEND6	0.0930366	0.0006866
MSN	-0.2106252	0.0006886
MICAL2	-0.0945485	0.0006888
FANCB	0.0485824	0.0006976
CREBZF	0.1394437	0.0006994
FAM200A	0.0403225	0.0006995
RAB11B	-0.1177322	0.0006996
HEMK1	0.0932526	0.0007001
SLC26A2	0.1149119	0.0007004
VAMP3	-0.1215572	0.0007182
MPC1	0.1159637	0.0007197
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GALK2	0.1178377	0.0007534
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FTSJ3	0.1240967	0.0007784
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SGF29	0.0902119	0.0007902
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COPB1	-0.161501	0.000802
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ABCB7	0.0994056	0.0008451
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GABARAP	-0.1988437	0.0008543
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TCF12	0.1101676	0.0008916
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ANAPC16	0.2128413	0.0009019
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CDCA4	-0.1379205	0.0009512
TPRG1L	-0.0683847	0.0009642
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TDRD3	0.1170327	0.0009742
NABP1	0.1355045	0.0009947
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MRPL4	0.203485	0.0010111
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ABHD13	0.0874449	0.0010258
QPRT	0.0843965	0.0010269
POLR2G	0.1146652	0.0010286
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PLEKHA2	-0.1563246	0.0010358
SNX10	-0.2499677	0.0010378
SRP14	-0.2054137	0.0010388
USF1	-0.0905023	0.0010423
CCDC180	0.0612202	0.0010571
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BSDC1	-0.1150936	0.0010765
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TRPS1	-0.2348529	0.0011052
ATP6AP1	-0.112469	0.0011068
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CMPK1	0.1735399	0.0011875
HERC4	0.1330963	0.0011934
MPV17	0.1324376	0.0011944
CBX6	0.1262834	0.0011998
GPBP1L1	-0.1821919	0.0012013
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SHPRH	0.1875817	0.001241

ADNP2	-0.19731	0.0012423
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DLST	-0.1781847	0.0013047
EPS8L2	0.0687001	0.0013055
B3GALT6	0.1249076	0.0013071
XXYLT1	0.0575346	0.0013088
CBX4	0.0865616	0.0013151
TIMP1	-0.2195587	0.0013185
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CETN2	-0.1246577	0.0014535
LXN	0.1233072	0.001456
FBXL4	0.070876	0.0014571
IRGQ	-0.1197561	0.0014572
LARP7	0.0845064	0.001459
SPPL2A	-0.1496028	0.0014624
SLMAP	-0.158757	0.0014683
LAGE3	0.1922837	0.0014699
TRIR	-0.1272213	0.001475
PSMD4	0.1293586	0.0014814
SCRN1	-0.1551285	0.0014831
BTN3A1	0.0838864	0.001486
KBTBD7	0.0879585	0.0014987
SNRPD2	0.1584158	0.0015049
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S100A1	-0.224309	0.001511
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NCKAP1L	0.1536721	0.001513
SCFD1	-0.1446036	0.0015133
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TIGD2	0.0500603	0.0015521
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EPN1	-0.1552021	0.0015637
UROD	0.1267859	0.0015723
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VMA21	0.105862	0.001597
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FBXL15	0.1366416	0.0016326
GATM	0.069446	0.0016554
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ADIPOR2	-0.1669474	0.0016701
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MARK3	-0.1263588	0.001699
C12orf65	-0.1679507	0.0017039
RARG	-0.0802141	0.0017058
MDH2	0.0738229	0.0017139
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SLC2A3	-0.2125058	0.0017433
SBNO1-AS1	0.0737129	0.001762
ATG3	-0.1438403	0.0017622
CHORDC1	0.0896057	0.0017637
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C17orf67	0.1241905	0.001772
MRPL35	0.1234121	0.0017917
UBA2	0.1793878	0.0018015
LINC02762	-0.1131851	0.00183
SMIM27	0.0997174	0.0018333
NORAD	0.1202369	0.0018344
UIMC1	-0.1738642	0.0018541
HMG5	0.0694506	0.0018657
MTMR3	-0.0777699	0.0019016
TRMT10B	0.127497	0.0019204
ARHGAP18	0.2025558	0.0019282
KANSL1	-0.1550323	0.0019337
GRK2	0.1382261	0.0019416
BTBD10	-0.1347781	0.0019454
HPDL	0.0567006	0.0019515
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GCHFR	0.1057473	0.0019547
ARL6IP1	0.2169351	0.0019567
NAPG	-0.1787094	0.0019698
COPS7A	-0.009163	0.0019709
SRD5A3	0.1755478	0.0019761
MNAT1	0.1140631	0.0019772
HELZ2	-0.0779884	0.0019774
POLE3	0.206014	0.0019902
TTC27	0.1167902	0.0019951

SDAD1	0.1253135	0.0020236
ROCK1	-0.27638	0.0020332
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UBL7	0.0635289	0.0021383
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GMCL1	0.171666	0.0022597
PIEZO1	-0.0560572	0.0022669
MRPL11	0.1391911	0.002267
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HAUS1	0.1112771	0.0023299
FAM200B	0.0643828	0.0023364
BRD2	-0.1792608	0.0023509
LINC02361	-0.0771713	0.0023514
STAT2	0.1254007	0.0023518
TGFBR1	-0.1951962	0.0023714
POLD4	-0.108145	0.002375
TXNDC12	0.1201844	0.0023825
LCORL	0.1395996	0.0023837
ATF5	-0.1496107	0.0023941
SLC22A18	-0.0572539	0.0023989
CWC27	0.177173	0.0024032
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MMP2	0.1547703	0.0140364
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NUP214	0.1034076	0.0170356
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FAR1	-0.1701257	0.0173382
AC008014.1	0.0667244	0.017352
BCL9L	-0.1526792	0.0173554
IL2RA	-0.240817	0.0174558

ACOT11	0.1407137	0.0175038
MRPS18A	-0.1307165	0.0175457
THADA	0.1272314	0.0176232
YAE1	0.0519267	0.0176742
TRIB3	-0.125275	0.0176914
PRKAB1	-0.0993694	0.017709
XPOT	0.1660971	0.0179228
GDI2	0.1659824	0.017924
SMIM29	-0.1122428	0.018069
NDUFS7	0.164842	0.0181176
FCGRT	0.084388	0.0181285
FOCAD	0.0497941	0.0181459
ZFX	0.109904	0.0182273
KIF18A	-0.1135951	0.0182699
HELZ	-0.1586211	0.0183373
ZNF3	-0.1350443	0.0184916
ZBTB8A	-0.1745373	0.018506
API5	0.0949067	0.0187928
KLF16	-0.1502638	0.0189661
PLEKHG2	-0.0573349	0.0190938
PURB	-0.0673904	0.0191077
SNHG8	0.1835794	0.0191692
NISCH	0.0359269	0.0193344
STAU1	-0.1544734	0.0193427
PRELID2	0.0696383	0.0195908
SLC25A39	-0.0769364	0.0196215
INTS3	0.0487269	0.0196688
UBE2Q1	0.175597	0.0196699
HIPK2	-0.184274	0.0198276
RACK1	0.1332418	0.0200901
TRIQK	0.1010673	0.0201617
SF3A2	-0.1522929	0.0201699
TARS2	0.0941045	0.0202825
POLK	-0.1468443	0.0203594
CNOT7	0.1020437	0.0203818
FUNDC1	0.1480726	0.0205179
CNOT9	-0.1530493	0.020555
GATC	0.0823588	0.0205698
ENTPD5	0.0404134	0.0205721
ATP6AP2	0.0447909	0.0205779
B3GALNT1	0.0816675	0.0206902
RAB44	0.0576305	0.0206966
BUB3	0.1054819	0.0207874
BCL2A1	-0.0702103	0.0208999
TCTEX1D1	0.0567719	0.0209252
ATP6V1B2	-0.1201885	0.0210604
FNBP4	-0.2043556	0.0211031
DGCR6L	0.1149135	0.0212172
DTWD2	0.0591115	0.0212261
AL132709.8	0.0682517	0.0212939



USP33	0.1194859	0.0213393
SND1-IT1	0.0385767	0.0214129
ZFP36L2	0.2365662	0.021417
AL157392.3	0.0592472	0.021585
EEPD1	-0.1443587	0.0216149
HSPBAP1	0.0137364	0.0216861
GABPB1	-0.1154982	0.0217048
MAP7D3	0.1761597	0.0217422
EIF3J-DT	0.1377307	0.0218051
TTBK2	0.1210542	0.0221149
IKBKB	0.0139643	0.0223028
ACLY	0.1444142	0.022451
NOP2	0.0848685	0.0225155
RITA1	0.0868425	0.0225496
GTPBP6	0.158647	0.0227127
ICK	0.0585478	0.0227532
ERICH1	0.1959594	0.0227871
TRIM5	0.1372623	0.0227952
TCF4	0.4116081	0.0228885
ANAPC13	0.156732	0.0230306
SPOUT1	0.075928	0.0230869
AC011462.5	-0.0715491	0.0232339
DBT	0.1071487	0.0234476
ABI2	-0.1082591	0.0237665
FAM133B	-0.21648	0.023806
TMEM260	0.11117	0.0239205
TMEM185A	-0.0947306	0.0240647
CBR4	0.0808436	0.0241731
FAM222B	-0.0679449	0.02418
XBP1	0.2607411	0.024356
MRPS17	0.1195138	0.0245082
MBD4	0.1291434	0.0245492
NRXN2	0.0664953	0.0245637
PAK1IP1	0.1268658	0.0246559
FAM172A	0.0871749	0.0247036
USP27X	-0.1062296	0.0248685
HDHD2	0.1382829	0.0249022
KYAT3	0.0591164	0.0249973
ELAC2	0.0886929	0.0250019
TRMT61A	0.0555948	0.0253563
EIF2S3	0.1944801	0.0254502
ZNF589	0.0487651	0.0254937
MPP7	-0.0909362	0.0255867
SLCO4A1	-0.0974745	0.0255898
PRELID3B	-0.114369	0.0255906
NIFK-AS1	0.1332869	0.0258494
KANSL1L	0.0884744	0.0262244
PDIA5	0.0501677	0.0264165
AC025171.2	0.1568665	0.0267979
KLHDC4	0.0499829	0.0273269

TMEM159	0.107712	0.0277523
ELK4	-0.0622843	0.0279273
ZFP90	0.088088	0.0279636
CTSS	0.2208352	0.0281647
RASA3	0.0813314	0.0281894
MTFR1	0.0510767	0.0282522
RPP21	0.1495624	0.0282905
LBHD1	0.0519168	0.0285204
CCDC58	0.0965548	0.0285605
TATDN2	-0.0696589	0.0285721
UQCRQ	0.1198418	0.0285722
TM7SF2	0.0859588	0.0286038
MMAB	0.1067545	0.0286387
UBR5	-0.2407148	0.0286403
ATP5F1A	0.1576025	0.0287279
BNIP3L	-0.1276376	0.0287391
TMEM182	0.0449901	0.028789
OGFOD3	0.0678588	0.0288395
ZNF70	0.0759179	0.0291575
ASB3	0.0554374	0.0292128
MFHAS1	0.111628	0.0292398
EPB41L2	0.0890261	0.0296249
RINL	0.0675814	0.030037
SUSD6	-0.1314325	0.0300428
ELL	-0.1252471	0.0300915
TMEM64	0.0597789	0.0301282
ANKRD26	0.1106664	0.0302404
ZFP14	0.1226123	0.0303356
MFNG	0.0060848	0.0303725
AC007686.3	-0.0540528	0.0304094
LAPTM4B	0.0772456	0.0304267
CCND2	0.1054738	0.0306047
CNOT1	-0.1825798	0.0306582
NFE2L3	0.1063475	0.0307369
DDX31	0.0732517	0.0307541
ATXN1L	-0.0980466	0.0309359
UBE2I	-0.2050833	0.0309415
CYB5D2	0.1039926	0.0309432
C19orf53	0.1790826	0.0311669
C9orf40	0.0566595	0.0311757
LRRC27	0.0560706	0.0312221
CCDC24	-0.0623828	0.0312888
RRP1B	0.2153582	0.0313891
ALG10B	0.0791272	0.0314497
ACTR10	-0.1345647	0.0315338
TMEM181	0.0521779	0.0317482
BRCA1	0.1024047	0.032075
TAGAP	-0.1899993	0.0325802
EEF2K	0.0943597	0.0329081
GTDC1	0.1056821	0.032927

TMEM147-A	0.0837209	0.0329913
GMIP	-0.1169763	0.0331266
CCNH	-0.0473371	0.0331898
UBXN2A	-0.1221892	0.0332316
PAN3-AS1	0.1205708	0.0332318
ZNF813	0.0585775	0.0332776
WDR4	0.0466574	0.0335343
CISD2	0.1149967	0.0335973
GKAP1	0.0738894	0.0336217
PPP3CC	-0.0949101	0.0336422
RBPJ	-0.1610885	0.0337464
PAK1	0.1347205	0.0338508
RPP38	-0.042768	0.0338585
SLC12A2	-0.0657299	0.0338645
EIF5A	-0.1861167	0.0338699
EFCAB11	0.0597533	0.0340245
FIBP	0.0485864	0.0341671
ZNF71	-0.061858	0.0345767
CHRAC1	0.0771468	0.0348026
ZNF264	-0.1170148	0.0348229
REL	-0.1120645	0.0348415
TMEM219	0.0206783	0.0348524
SDHAF2	-0.1736396	0.0349358
TELO2	0.0235895	0.0349958
EEF2KMT	0.0796325	0.0350443
MT-ND4L	0.182665	0.035146
IRAK1BP1	0.0843786	0.0351761
TYW3	0.1326054	0.0351864
PIM2	0.1499877	0.0353565
SASS6	0.0945196	0.035433
SLC45A3	0.1134601	0.0359774
C16orf58	0.0435337	0.0360536
TRIM33	-0.1870217	0.0362808
RPA3	0.0647939	0.0363648
RPA1	0.1259427	0.0365499
AC124248.1	0.0646128	0.0365848
FER	0.0738129	0.037025
RPL14	0.0970676	0.0371257
TRAPPC6A	0.1293975	0.0373439
CALM3	-0.1598141	0.0373588
KATNA1	-0.1319259	0.0375746
CCDC9	-0.0819562	0.037854
SOX12	0.0632681	0.0381563
POFUT1	0.0548317	0.0381929
PAM	0.0422519	0.0385117
CRNDE	0.0689033	0.0386648
UBE2R2	-0.2238902	0.0388106
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ANTKMT	0.1440573	0.0392522
CEP97	0.0857662	0.0394703

AL021155.5	0.0440055	0.0394982
SPATS2	0.0987292	0.0395384
ARMC6	0.0883776	0.03954
LYPLA2	-0.0961845	0.0399665
IL2RG	-0.2203602	0.0400324
PHF13	-0.0723799	0.0400981
SRSF11	0.0965053	0.0402309
CCDC59	0.0851501	0.0402888
GSK3A	-0.166553	0.0402971
C10orf88	0.0576349	0.0406922
SAC3D1	0.1205379	0.0408776
MICAL1	-0.0722883	0.0409104
RRP8	0.02473	0.0411029
INSR	0.0906178	0.0411361
LYSMD2	0.0689686	0.0411674
HIST1H2BD	-0.1006796	0.0416057
ETNK1	0.0782034	0.041708
VPS13B	0.099033	0.0420012
EVI5	0.082196	0.0423676
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DIDO1	-0.0609782	0.0427324
HACL1	0.0761296	0.0430048
TFB2M	0.0193612	0.0432574
AC138150.1	0.0885745	0.0435469
RCHY1	-0.1053694	0.043689
FAM214A	-0.092022	0.0438196
WDR33	-0.0412708	0.0444925
SIL1	-0.1015569	0.0445677
C15orf40	0.0921933	0.0445914
ZBTB6	0.0783601	0.044632
SMS	0.1860692	0.0446399
SH2D3C	-0.1715775	0.044892
AKR1A1	0.1027138	0.0449493
DMXL1	0.1014342	0.0450809
ZFP91	-0.1865978	0.0452481
TNRC6A	-0.0680799	0.0452587
TMTC2	0.0617322	0.0453058
WASHC2A	0.0063382	0.0458973
HPS3	0.1122954	0.0460553
MED30	0.0505816	0.0464011
TRMT1L	0.0763271	0.0465092
MX2	0.0864022	0.046756
IMMP1L	0.1056371	0.0468023
NACC1	-0.1023427	0.0468885
NDUFAF1	0.0605762	0.0469829
C9orf43	0.0975665	0.0470922
HEXB	0.0989125	0.0471005
NCOA7	0.0957446	0.0471491
PAK4	-0.0271194	0.0474312
UHRF2	-0.1263953	0.0477332

PNPLA4	0.1123022	0.0477581
IFT52	0.037828	0.0479072
EDEM1	-0.0965931	0.0480701
FIG4	0.0635	0.0482627
DENND2D	0.0444447	0.0488842
ZFAND2A	-0.179496	0.0489679
RABL3	-0.0796442	0.0490525
RAB11FIP2	0.0735807	0.0492606
RUNX1	0.2470236	0.0493363
ANPEP	0.1591197	0.0493695
STX8	0.110655	0.0494203
MRPS18C	0.1206681	0.049425
TRIM14	0.0991789	0.0497631
TRIAP1	0.0962675	0.0502552
NEK7	0.0576955	0.0502842
MTRF1L	-0.1820135	0.0504151
GLCCI1	0.0595582	0.0504327
RGS14	-0.1371826	0.0505618
L3MBTL2	0.0765585	0.0505625
XYLT1	0.1158956	0.0505766
TCP1	-0.1821545	0.050736
CERK	-0.1156576	0.0509471
ANGEL2	0.1266611	0.0510224
TECR	0.0873355	0.0511858
DPY19L1	0.0605193	0.0512136
EEF1AKMT3	0.057384	0.0514357
POFUT2	-0.0955808	0.0516198
FCF1	0.069164	0.0517228
MRPL45	0.1056101	0.0517946
FBXO3	-0.0831219	0.0520559
METTL4	0.1039585	0.0520877
IMMT	0.1180592	0.0525572
GYG1	0.0297249	0.0526887
HESX1	0.068275	0.0527131
TRIM4	0.0947949	0.0527693
C12orf10	-0.0691378	0.0528657
TNIP2	-0.1342468	0.0528923
C2orf74	0.0897064	0.0531265
HDAC8	0.1280674	0.0531503
COQ7	0.0894278	0.0531632
PCNA	0.1801242	0.0532637
FERMT3	-0.1266646	0.0533806
PLAAT4	-0.0791249	0.0540153
BRD4	-0.109371	0.054439
MRPS6	-0.0397096	0.0546278
MCTP2	0.0136226	0.0551214
COMMD3	0.07778	0.0552241
AC027097.1	0.064921	0.0553189
LINC01278	0.104016	0.0555108
ERCC2	0.0559862	0.0555557

GPN2	-0.0439058	0.0556288
ATG4B	-0.065273	0.0558025
BLMH	0.084197	0.0558657
CTSF	0.0710961	0.0563144
CDC5L	-0.053503	0.0568178
ZBTB8OS	0.1034234	0.0568559
HNRNPC	0.1084072	0.0570231
EEA1	0.2009095	0.0574205
FLOT2	-0.0083178	0.0580717
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STX10	0.1269892	0.058221
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CHMP4B	-0.1630046	0.0584002
KLF3-AS1	-0.1441796	0.0587543
YBX1	-0.1278328	0.0588788
HNRNPUL2	0.1544468	0.0589076
FOPNL	0.1448988	0.0595268
CZIB	0.1254288	0.0597758
TERF1	0.1189587	0.0606266
NCOA5	0.0492268	0.0607934
TMEM256	0.1587694	0.060827
GPRC5D-AS	0.0589343	0.0610127
SMIM10L1	0.1097612	0.0612343
HIVEP2	-0.1900881	0.0613602
SS18	-0.189547	0.0616245
HDAC1	0.198623	0.0623272
CCAR1	-0.1171617	0.0626246
RIC8A	-0.115775	0.062689
STARD7	0.1105006	0.0626979
SNHG16	0.1677444	0.063063
RPS7	0.079689	0.0634501
SMARCA2	0.07913	0.0644027
C1orf52	-0.1348655	0.06474
STRN4	-0.1259389	0.0650123
ZBTB2	-0.0909088	0.06516
CBFA2T2	0.0542538	0.0654937
TCN2	-0.0726987	0.0655498
PSMB8	0.2152561	0.0670528
KPNA2	-0.1198417	0.067162
ENG	-0.0894464	0.0674241
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VKORC1L1	0.080957	0.0676823
RBL1	0.0581234	0.0677095
RBM15B	-0.103577	0.0677174
SDF2L1	0.0430923	0.0679982
MPI	0.0790751	0.0681114
SRRM2	0.1734346	0.0682419
SLC2A4RG	0.1272809	0.0684472
ITCH	-0.1852544	0.0687332
MTX1	-0.1223797	0.0693677

CHPT1	0.0899491	0.0693978
FOXN2	-0.1602569	0.0694022
UBA5	0.1371695	0.0700476
SDE2	-0.1486733	0.0704671
INTS6-AS1	0.0573082	0.0705356
MRPL14	0.1071203	0.0710428
ZNF234	0.0733516	0.0711267
GRINA	0.0289851	0.0713011
ABCA5	0.0542625	0.0713116
GLRX5	0.0671671	0.0714082
LTBR	-0.1744021	0.0714115
CUX1	0.0960812	0.0715764
TPGS1	0.0992729	0.0716805
RPS24	0.0928051	0.0717539
ATP11C	0.0755066	0.0717663
ERCC1	-0.0439661	0.0720855
TMEM86B	-0.0734289	0.0723358
DESI2	-0.0522704	0.0723966
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PELI1	-0.1148506	0.0727207
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YOD1	0.0460433	0.0732134
CYFIP1	0.1479818	0.0732409
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IQSEC1	-0.0764997	0.0744579
TMEM177	0.0821326	0.0747335
TCEA1	0.0801048	0.0748039
HCCS	-0.1243287	0.0748826
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CMTM2	-0.1111038	0.0751896
DENND11	0.0589679	0.0752532
CPT1A	0.0850301	0.0753679
NUP37	0.1045078	0.0754032
DOCK11	0.0784894	0.0756763
GSPT1	0.2075273	0.0759493
HOXB3	-0.131739	0.0760485
HYAL2	0.0562258	0.0761991
B3GALNT2	0.0805322	0.0762655
ELMO2	-0.0834048	0.0763659
TMEM50B	-0.0918234	0.0764137
HGS	-0.1543088	0.0765662
MLLT11	-0.1074953	0.0771244
HNRNPA1P4	-0.1730863	0.0774813
ST3GAL5	-0.1113112	0.0779639
RLIM	-0.2250128	0.0783288
TMEM19	0.0496138	0.078344
SARNP	-0.1243944	0.0787505
PARPBP	0.0373913	0.0788988
RNF19A	-0.2188123	0.0789783
NSMAF	0.0532151	0.0791997

BCAP31	-0.1255348	0.0795532
AGO1	0.0306669	0.0796066
FAM104B	0.061969	0.0797918
B4GALT3	-0.0860049	0.0808213
ZSCAN30	0.1237064	0.0811581
TOM1	-0.0941321	0.0812117
TMEM144	0.0957325	0.0813336
CHID1	0.1362083	0.0820213
PARVG	0.1056637	0.082699
WAC	-0.1919563	0.0828612
SLC50A1	-0.1279294	0.0829637
CASP1	0.0756155	0.083157
AC132192.2	0.0283159	0.0835116
SNRPA1	-0.1826785	0.083836
ANAPC7	0.1079881	0.0839205
TASOR2	0.0978103	0.0840237
SUCLG1	0.1717622	0.0843323
AC018638.7	0.0511506	0.0844515
ZSCAN5A	0.05998	0.0846894
ANKRD10-IT	0.0633922	0.0851372
IFT122	0.0613132	0.0856135
SMURF1	-0.1133664	0.0857102
SMC6	0.143105	0.0859746
OSBP	-0.1204229	0.0860829
ZBTB25	0.0110415	0.0864598
PCCA	0.0447329	0.0869504
PLEKHA3	0.0598721	0.0879117
PCGF6	0.0533413	0.0880746
SESN1	-0.1920392	0.0891386
OXNAD1	0.0552162	0.0895276
MAP1A	0.2834097	0.0898102
LUC7L	-0.0602493	0.0899298
ALDOC	0.058581	0.0900381
TSPAN5	0.0658056	0.0902847
CSNK1E	-0.0696555	0.0904559
CDK17	-0.1394306	0.0906154
NAB1	-0.1451019	0.0912884
EDRF1	0.0469441	0.0914236
SPIRE1	0.0992406	0.0916959
MED31	-0.0969346	0.0923451
AL513550.1	0.0519715	0.0924404
ZMYND8	0.1367926	0.0925423
KANSL3	-0.1166707	0.0946177
FBXW7	-0.1371842	0.0951557
IKZF4	0.0606934	0.0952672
SLFN11	0.0954623	0.0952806
COPS9	0.1677865	0.095299
SLC35E2A	0.0948752	0.0957599
OBSCN	0.0859324	0.0958412
LENG1	-0.0703288	0.0968376



VAC14	0.0381831	0.0972011
ATF7IP	0.1138441	0.0973448
MARVELD1	0.0787749	0.0974318
ZNF665	0.0839826	0.0975398
CU638689.4	0.0590573	0.0976284
NUDT12	0.042965	0.0978121
MAGEH1	0.0410336	0.0982402
TMEM265	0.044802	0.0984543
ITPR2	0.2164228	0.0992134
MLC1	-0.1014337	0.0996749
RBL2	0.0955076	0.1003886
ZNF880	-0.0964912	0.1003973
EMC1	0.0570847	0.1017537
ALYREF	0.1294818	0.1030896
TRIM38	0.1715725	0.1031528
CTSG	0.2588083	0.1038304
ZNF354A	0.0889049	0.1039348
PPP2R5D	0.0374216	0.1040134
NRDE2	0.0543221	0.1040212
ECSIT	0.0450891	0.1041609
DOCK5	-0.1830964	0.1041733
AARS2	0.0549448	0.1042452
FDPS	0.1026941	0.1046038
VPS50	0.0407402	0.1046057
PSMC5	0.0835505	0.1050019
AC027644.3	-0.0436908	0.1053978
FOXN3	-0.1466056	0.1055992
HAGH	0.0830097	0.1056398
FAHD2B	0.0566341	0.1056806
CCDC138	0.0515658	0.105765
RSRP1	0.2458577	0.1059308
MED25	-0.1433063	0.1061188
GDI1	-0.1211969	0.1062495
PUS3	0.0795409	0.1063694
ARHGDIB	-0.164514	0.1063748
PTK2B	-0.0923955	0.106819
SLC35A2	-0.0694809	0.1071637
SDCBP2-AS	0.0299156	0.1074771
TRIO	0.0561669	0.1075783
WDR45B	-0.0954003	0.1080035
DET1	0.0477987	0.1085378
ZBED5-AS1	0.0757817	0.1088178
CNOT11	-0.0033897	0.1089998
TMEM11	-0.0907418	0.1102552
SRSF4	-0.172211	0.110279
ZSWIM4	-0.0831642	0.1106585
URM1	-0.1133253	0.1110059
OPA1	-0.145118	0.1110586
MTOR	0.0770956	0.1111754
TMEM51	-0.096141	0.1114421

AC084198.2	0.0519099	0.1117042
UBXN1	-0.1090645	0.1117676
AL033543.1	-0.0701132	0.1124621
SCO2	-0.0831608	0.1124879
IFI27L2	0.1617657	0.1129858
FBXO30	-0.100074	0.1130027
PHACTR1	0.1099802	0.1132567
METTL18	0.1198204	0.1136397
FUT7	-0.1181029	0.1137345
MAPK8	-0.131262	0.1140642
VPS29	-0.0445892	0.1140761
RRP1	0.1263241	0.1142406
C11orf49	0.0506665	0.1144924
MRPS10	0.0991834	0.1145207
SNRNP70	0.0810443	0.1146064
ZNF44	-0.1189562	0.1149485
DYNC1LI2	-0.1389994	0.1150468
ARHGAP45	-0.1164418	0.1157486
MSMO1	-0.1498584	0.1158564
CDK11B	0.0338178	0.1159959
CNOT6L	0.0192162	0.1163242
GHDC	0.0947239	0.1174433
RAB11A	-0.1577646	0.1174615
NOSIP	0.0526555	0.1177026
HTRA3	0.0561554	0.1183491
CDK14	0.0701866	0.1185808
SLC48A1	-0.0615902	0.1188436
CNIH1	-0.1604966	0.1189068
ZBTB47	0.033169	0.1194306
ECI1	0.0543464	0.1194601
CRY2	-0.0649109	0.1197053
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CRELD2	-0.1013731	0.119813
UNK	-0.0912611	0.1212723
PRKACA	0.0388865	0.1225016
RAD51C	0.090736	0.1232604
ATF2	-0.1259588	0.123422
FIGNL1	0.064044	0.1237441
ZDHHC14	0.0713096	0.1239106
MGST3	-0.0281434	0.1248104
CMPK2	0.0679879	0.1254458
SFT2D1	-0.0353657	0.12578
GOLGA8A	0.0682138	0.126404
HSPB11	0.1337687	0.127047
MT-ND2	0.0975846	0.1273174
DHRX	0.0776708	0.1281389
LINC01150	0.0583261	0.1286531
EIF1AD	-0.1034655	0.1286694
LONP2	0.1102436	0.1289118
ACAP1	-0.0508767	0.1292858

ABHD8	0.0533319	0.1293169
HMBS	0.0714561	0.1293872
MARCH5	-0.0977454	0.1295661
SULF2	-0.0732209	0.1295885
MTCH1	-0.1897142	0.1295985
SNTB1	0.0824378	0.130101
BUD13	-0.0862611	0.1310789
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UGGT1	0.1082248	0.1315177
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SPACA9	-0.1003718	0.1338541
RMDN1	0.1092577	0.1351994
CEBPZOS	0.1271532	0.1352482
S100PBP	0.095147	0.1352818
CENPV	0.0749559	0.1352932
TTC28	0.0183212	0.1355082
JPX	0.1819086	0.1366718
IRAK1	-0.0396167	0.1371228
ZGPAT	0.0036726	0.1373895
RPS12	0.0863358	0.1388155
PEX11A	0.0285676	0.1390027
FAHD2A	0.0804026	0.13953
GBP4	0.0963571	0.1399444
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NAP1L4	0.0847122	0.1407144
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C3orf38	0.0139536	0.1419404
BTBD6	0.0477885	0.1425304
MED4	-0.1473742	0.1431665
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POGK	0.0578029	0.1438578
USF2	0.1534042	0.1444958
GSTM3	0.0487721	0.1450539
PHF21A	0.0710685	0.1451882
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ZBTB4	-0.1250893	0.1469493
VRK1	0.1002917	0.1471537
NCBP3	-0.162325	0.1484987
NXPE3	0.0378196	0.1493283
ZDHHC3	0.018405	0.1507713
ZBED3	0.0883387	0.1509799
ACTR3	-0.1492887	0.1518748
PPP1R8	-0.0609035	0.1524371
ABCF2	0.0984651	0.152503
REEP4	-0.0629299	0.1534064
PSMB7	-0.0604358	0.1540317
SEN2	-0.0764988	0.156066
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MZT2A	0.048021	0.1564555
DEGS2	0.0468738	0.1565538
USP53	-0.0423889	0.1566385
RNF41	-0.1377272	0.1571165
CLN6	0.0868237	0.1574834
BMS1	0.1066998	0.1579544
DRAM2	0.1373438	0.1585981
SOCS7	0.0437169	0.1593867
S100A8	0.0616839	0.1595426
HOXB5	-0.1252126	0.1596671
AK5	0.0953528	0.1605243
H6PD	0.0625814	0.1607247
P4HB	-0.1149976	0.1616737
SERPINF1	-0.0863591	0.1616821
NOL12	0.0410979	0.1618119
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SRI	0.0758686	0.1633678
ERBIN	-0.1537888	0.1647042
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RFX1	-0.1105087	0.1653768
GCN1	0.1047368	0.1654321
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CREBL2	0.0439874	0.1659749
PIAS4	-0.1144139	0.1663295
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KIAA2013	0.0935466	0.167236
CUEDC2	0.1028102	0.1672771
AC074117.1	0.0490853	0.1674903
PLD3	-0.109255	0.1678456
ZNF296	-0.0756565	0.1682413
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NOTCH2	0.0774346	0.1739062
PACRGL	0.0579178	0.1740566
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PGBD1	0.0142351	0.1756451
SCAF8	-0.088383	0.1758461
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PI4KB	-0.08482	0.1787809
CASZ1	-0.0608549	0.178799
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RSF1	-0.1426227	0.1807959
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CFAP298	0.0536429	0.1815322
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CLTC	-0.1714714	0.1822509
TDP1	0.0437031	0.183359
CPXM1	-0.1064298	0.1837166
COX11	0.1195914	0.1842578
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VAPB	-0.0852139	0.1848879
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PSMA3-AS1	0.0933098	0.1884194
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GTPBP3	0.0789358	0.1896933
DPM2	0.119856	0.1901118
SETD1B	-0.0712679	0.190679
CCNL2	-0.1519942	0.1908271
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GLO1	0.1505173	0.1926623
AC073389.1	0.0380666	0.1927883
MRTFB	0.029958	0.1931103
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KIAA1586	0.0601665	0.1955911
NCAPD3	0.123188	0.1961281
IFT172	0.0504246	0.1963637
FANCL	0.0693236	0.1977595
C16orf87	0.0602479	0.1986655
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SMAP1	0.073453	0.2021386
LIG3	0.092151	0.2029081
STEAP3	0.0357465	0.2046788
PSME4	-0.1847444	0.205414
DUSP12	-0.0714944	0.206624
ANP32B	0.1532862	0.206892
APOC2	0.1850513	0.208083
TMEM245	0.1255954	0.208449
TMEM203	0.0732325	0.2090829
ADRB2	0.1059799	0.2094783
DHX32	0.0915674	0.2100955
CSTF2T	0.0594537	0.2101597
KCTD20	0.0510545	0.2107605
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FAS	-0.1153277	0.2114322
EZH2	-0.1367355	0.211468
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CEP350	-0.1520876	0.2123601
TRNAU1AP	-0.0571148	0.212605
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MOAP1	-0.0656302	0.2132101
HCP5	0.0346092	0.2134543
PRPF31	0.0921768	0.214062
TNPO1	0.0071002	0.214528
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ETV6	0.2051531	0.2152833
AP3B1	0.1433605	0.2158085
BCAT2	0.0813054	0.2169092
DDOST	-0.0567121	0.217993
IGFLR1	0.1592641	0.2182615
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TBXAS1	0.1067066	0.2187475
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FAM110A	-0.0904462	0.21951
ANKRD17	0.1820875	0.2211901
NAF1	-0.0183002	0.2215713
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HNRNPA2B'	0.1611709	0.2235064
LAPTM4A	-0.1111511	0.2258914
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PCBD2	0.100446	0.2280105
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PMS2	0.0886541	0.2295639
EXOC3	0.0482452	0.2310908
AC243960.1	0.0899632	0.2311592

ITGB7	-0.1061614	0.2319315
MAK16	0.0630497	0.234779
DNTTIP2	0.038532	0.2351885
ASXL1	0.1224602	0.2365506
AC242426.2	0.0512266	0.2367939
CCNT2	-0.1175572	0.2370932
AC010883.3	0.0354971	0.2374717
PEMT	0.0885164	0.2382902
LATS1	0.0134289	0.2390343
YTHDC2	-0.0289052	0.2394095
ZNF652	0.1161224	0.2394851
RUVBL2	0.1109175	0.2408581
PRKAR2A	-0.097228	0.2434474
ERCC4	0.0933692	0.243808
ZFAND1	0.1433707	0.2440451
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SNAPC4	0.0464121	0.2444796
MRPL57	-0.1991187	0.2461303
STYXL1	0.0844435	0.2463175
TBC1D10A	-0.0643832	0.2464458
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KDM3B	0.0475925	0.2470793
YIF1A	-0.0140582	0.2474509
MVB12B	0.0150496	0.2475267
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PKD1	0.0439695	0.2483722
CXorf40A	-0.0617191	0.2486106
DNAJC11	0.0724266	0.2489824
STPG1	-0.0570936	0.2510271
RCN2	0.1671093	0.2510404
CATSPER2	0.0651799	0.2516504
TLK2	-0.0872393	0.2520332
ZFAND2B	0.0657865	0.2529647
POLG	-0.0304363	0.2529687
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DNAJC1	-0.1146048	0.2558191
COPS8	-0.1044262	0.2559593
TBL2	-0.0915872	0.2606571
TOLLIP	-0.1202261	0.2607761
BX284668.5	0.0494344	0.2614638
NAXE	0.1215364	0.2614721
KANSL2	0.0315251	0.2667162
TFIP11	-0.1236853	0.266949
GPI	0.1137548	0.2674218
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HINT2	0.0651229	0.2692139
LRRC23	0.0707666	0.2709716
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NRM	-0.087391	0.2720417
NDEL1	-0.1315176	0.2723664
PSMB6	-0.0617453	0.2736161
MACO1	-0.0596552	0.2743431
ERGIC2	0.0609701	0.2753784
ATMIN	0.0093246	0.2755417
ETFRF1	-0.175236	0.2765517
GCDH	0.065262	0.2766847
PPP6R2	0.1001991	0.2772173
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NCAPD2	0.0815198	0.2788834
EIF4E3	0.0721368	0.2795692
ANKAR	0.0542707	0.2803084
ZNF91	0.1487731	0.2803869
C6orf62	-0.0263598	0.2807503
HEATR1	0.1156765	0.2809888
H2AFX	-0.1221674	0.2826995
PRPF4	-0.0442119	0.2836742
SUZ12	0.1221056	0.2851645
MRM2	0.0590852	0.285791
CREB3L4	0.1092271	0.285796
TMEM208	-0.142152	0.2864504
ZNF43	0.1729868	0.287653
ARL2BP	-0.1179661	0.2878672
NT5DC3	-0.1476279	0.2919741
WT1-AS	0.0698878	0.2946706
MAEA	-0.0620937	0.2959275
GIMAP2	0.0558114	0.2961529
ETFDH	0.0104286	0.2964452
MTMR14	-0.0592592	0.2970384
CTBP1-DT	0.0753628	0.2972833
TIPIN	0.0759982	0.2979051
P2RX1	-0.0874353	0.2990417
TAF3	0.1275452	0.3000867
NRIP1	0.1028461	0.3002269
YIPF5	-0.0994181	0.3008052
AASDHPPT	0.0066068	0.303097
NLRP2	0.0777499	0.3049297
RAB5IF	0.1305538	0.3051753
EPM2A	0.0554962	0.3052325
RPUSD1	0.0821322	0.3098271
AC007383.2	0.0328773	0.3110663
DNASE2	0.0953146	0.3126186
MDH1	0.1446882	0.3129932
NAA40	0.0176313	0.3132526
FAM53C	0.0406758	0.314421
TMEM68	0.0770162	0.3149503
GNL2	0.04827	0.3165112
RBM34	-0.0086665	0.3166642
SOD1	-0.0757759	0.3167794



PARG	0.0678147	0.3168102
TCHP	0.1250404	0.3168499
MSANTD4	0.0984074	0.3184492
TRGC2	0.1265634	0.3187079
LAMTOR3	-0.1529025	0.319273
ZNF354C	0.0544252	0.3212558
BCAS3	0.0513948	0.3214734
FLNA	-0.2269351	0.3214934
RILP	0.0688751	0.3223564
TCTA	-0.1115139	0.3244723
CYB5B	-0.0756463	0.325423
ZNF787	-0.0368354	0.3262071
GMDS-DT	0.0997595	0.3264242
PRMT6	0.02508	0.3268282
NUSAP1	0.0939892	0.3274235
KIF11	0.0826371	0.3274504
GLRX3	0.0804827	0.3277223
AL354740.1	0.0458323	0.3288485
NSD3	0.1139856	0.3293823
MED27	-0.0573744	0.3304101
TBC1D15	0.0409133	0.3317997
RPAP1	0.0479408	0.333815
LHFPL2	-0.0824995	0.3346567
GANC	0.0488435	0.336507
ARHGAP17	0.0141211	0.3391197
CCDC97	-0.1420036	0.3391866
HBS1L	0.0291124	0.3398407
ECD	-0.1036521	0.3398785
ZBTB39	0.0261038	0.3429399
ARMH1	-0.1191851	0.3443168
ACYP1	0.0293564	0.3457975
GBF1	-0.0068568	0.3458112
TSPAN4	0.0490741	0.3465704
STOML2	0.1191913	0.3480008
ZMAT5	0.0759486	0.3494107
MOCS2	0.0733662	0.3513155
SDF2	-0.0757247	0.3526887
EML3	0.047821	0.3552505
PIGU	0.0508123	0.3552832
KATNBL1	0.1970972	0.3555898
EIF4A3	0.0359185	0.3558087
PEX5	0.033369	0.3575051
TK2	0.0392619	0.358954
AGFG1	0.0369898	0.3599533
RNF2	-0.1422328	0.3612349
AGK	0.079036	0.3644037
SERGEF	0.0707775	0.365783
TSPYL1	-0.1300555	0.3660392
SLC27A1	0.0255445	0.3676196
BAG4	-0.1037825	0.3678886

ISCA1	-0.0556808	0.368297
PRKAG2	0.1140109	0.3699545
SHMT2	0.0618627	0.3714347
ZFC3H1	0.1120025	0.3732309
TIMM8A	0.0808522	0.3745706
PFDN2	0.0024008	0.3806542
DBF4	0.0869673	0.3808658
MRPL17	0.1022669	0.3810062
CIC	-0.0904884	0.3815939
PDCD2L	0.0600491	0.3818538
RNF220	0.1070685	0.3829932
AL157834.1	0.055183	0.3832418
MIR646HG	0.0320414	0.3847449
CD36	0.3844339	0.3848449
IDH3A	0.0824518	0.3850024
FGL2	0.0557239	0.3853619
SNRNP40	0.1362152	0.387754
METTLL23	0.034629	0.3877695
RPS2	0.1010399	0.387991
SNHG25	0.0646073	0.3906118
WDR5B	0.0838906	0.3915398
ATG13	-0.0925571	0.3918076
GNPTG	0.084376	0.39186
OTUD1	0.025942	0.3931689
HK2	0.0555793	0.3932283
NDUFA13	-0.1782889	0.3932749
CLN8	-0.1007715	0.3954653
TPT1	0.1072211	0.3980593
AVL9	-0.1105495	0.3983509
AC008915.2	0.0437733	0.3984045
ELK1	-0.0333705	0.3987194
NIPAL2	0.1084243	0.400006
PINLYP	0.0366074	0.4015879
PPM1G	0.0756795	0.4025855
TRIM27	0.1243535	0.4040669
LRSAM1	0.0402926	0.4044893
ASXL2	0.0784057	0.4075778
SDHAF1	0.1020763	0.4077292
ZNF529-AS1	0.0579122	0.4078528
ALDH6A1	0.0962039	0.4082646
PPP1R3B	-0.0732832	0.40857
ILKAP	-0.0562333	0.409844
RNF103	-0.1068276	0.410867
ATP11B	-0.1454109	0.4112462
FNDC3A	0.0626935	0.413675
MAP2K2	0.0943415	0.413728
AC159540.2	0.1002507	0.4142335
MIR17HG	0.0422201	0.4177332
CSNK2A1	-0.1067783	0.4187936
CLCC1	0.0640306	0.419685

RBMS1	-0.1662916	0.4225062
AKAP17A	-0.0747945	0.4225182
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FAM131A	-0.1000336	0.4242769
MILR1	-0.0967625	0.424865
MHENCN	-0.1186929	0.4288196
GRSF1	0.1456418	0.4293741
MCCC2	0.1131924	0.4296665
SMAD4	-0.0999186	0.4336034
ERVK13-1	0.0303566	0.4340391
TCEA2	-0.1381986	0.4344526
LINC00539	0.0420325	0.434798
RAVER2	0.0810141	0.4370292
ZCWPW1	0.0666563	0.440079
PPP1CC	0.0181395	0.4407759
TMEM115	-0.1041584	0.4408294
LGALS3BP	-0.1221223	0.4420487
VPS28	0.0496846	0.4420583
TMEM109	0.0778295	0.4439112
IRF2BP1	-0.0161836	0.444154
ARID2	-0.0730601	0.4447091
MPND	0.0709295	0.4457418
ALDH9A1	0.0339506	0.4467644
GFM1	0.0451756	0.4475896
CTDSPL2	-0.0764543	0.4500616
ANKRD40	-0.0567864	0.4509133
VENTX	0.0040585	0.4542441
SPICE1	0.0645347	0.4555616
DPP8	-0.0831538	0.4562091
VPS33A	0.0004681	0.4586215
DNAJB4	0.0868199	0.4589294
NPHP3	-0.0129001	0.4592703
SEC13	-0.0486568	0.4601623
SMCR5	-0.1351113	0.4626862
ZCCHC10	-0.0891595	0.4643944
ISOC1	0.041658	0.4685854
IRF5	0.0716113	0.4691835
UBAC2	0.0738667	0.4696899
DLG1	0.089182	0.4704653
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HMGXB4	-0.0728415	0.4713859
REEP5	0.0522457	0.4745162
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DDI2	-0.082459	0.4775175
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CWF19L2	0.1122732	0.478035
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AC138649.1	0.0298489	0.4786128
TMEM9	0.0558402	0.481766
C8orf76	-0.1040771	0.48187
TMEM30A	0.0341098	0.4824181
NFE2	0.0275672	0.4859466
PTPN12	-0.0775888	0.4864527
TIMM17B	0.0008802	0.4877946
ARID5B	0.0692937	0.488676
NUDT14	0.0729581	0.4918937
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PEX26	0.0756233	0.4968271
TMEM9B-AS	0.0754006	0.4989619
PHETA1	-0.0613722	0.5016792
RASSF3	-0.0532422	0.5021963
EIF2S1	-0.1180348	0.5035812
NPRL3	0.0728513	0.5051689
MEN1	0.0420408	0.5062575
NCOA1	0.0670772	0.5069952
STN1	0.121445	0.5073642
BORCS7	0.039094	0.5085818
CROT	0.0689842	0.508971
PIGC	0.0986606	0.5095348
PHF2	0.0524787	0.5125666
NDUFS3	0.1588965	0.5142844
BOP1	0.053041	0.5145044
INPP1	-0.096598	0.5153808
UBE2D4	0.0813814	0.5179928
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TADA2A	0.0761529	0.5286398
CTSZ	-0.1026405	0.5292411
SMAD2	-0.1183593	0.5326004
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PSMB3	-0.1419861	0.5338369
SORT1	0.094254	0.5339647
SQLE	-0.2272622	0.5350202
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RCOR1	-0.0011584	0.535911
WDR92	0.0713799	0.5398753
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LINC01355	0.0639269	0.5444653
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POLR2E	-0.1199764	0.5483363
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USP42	-0.0411545	0.5553416
MAP3K11	-0.1523117	0.5553654

ASB16-AS1	0.0607494	0.5570647
DAXX	-0.0523814	0.5580961
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PLEKHJ1	-0.1103781	0.5628358
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ZSCAN26	0.0761026	0.5648689
LMF2	-0.1354524	0.5718604
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GTF3A	0.224015	0.5749454
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PCBD1	0.1359585	0.5801332
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CASP4	0.1678335	0.5840864
MSTO1	0.0209814	0.5846553
LONP1	0.053314	0.5849297
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RFXANK	0.1217034	0.5854448
ZNF616	0.0530878	0.5859898
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CKMT2-AS1	0.068706	0.5874747
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TIAL1	0.1930352	0.5914831
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BCAS2	-0.1308745	0.5968269
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PSMB4	-0.0769215	0.5981998
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CENPQ	0.0621655	0.6021371
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C5orf56	-0.0950445	0.6027619
RPP25	0.0509964	0.604224
ETV5	-0.0807121	0.6057062
CHAMP1	-0.1066103	0.6061342
DAGLB	-0.0868532	0.6072419
IPO5	0.1292505	0.6078023
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ST3GAL1	-0.1820389	0.6119501
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SERAC1	-0.0453963	0.6191536
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RAD18	0.0539902	0.6219088
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FPGT	0.0535848	0.6238207
HAUS3	0.0488148	0.6271445
ATP11A	0.059862	0.6289983
RELA-DT	0.0443473	0.6352122
TMED8	0.0949733	0.6368977
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ARMC5	0.061446	0.6394981
ACAP3	-0.1150118	0.6420117
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MBNL3	0.0729133	0.657309
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STIMATE	-0.0590763	0.6709296
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TBCB	-0.1859074	0.6875147
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GMEB1	-0.1252881	0.6971501
NUB1	0.0483167	0.698673
LTBP4	0.0726007	0.6988403
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SLA2	-0.0174044	0.7005021
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ZNF227	0.0393952	0.7039299
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VPS9D1	-0.0588064	0.7156996
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TFCP2	0.0809589	0.7229289
NEU3	0.0363655	0.7266588
PRPSAP2	0.0566888	0.728326
USP11	0.0601262	0.7306753
SOCS4	0.1527463	0.7352372
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ABHD10	0.0699661	0.7473185
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TMED1	-0.031388	0.7480422
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YEATS4	0.0601274	0.7561469
CHD9	0.0614101	0.7590159
FXN	0.0947669	0.7590347
MLST8	0.075728	0.7610689
RNF5	0.0831121	0.7611612
CARM1	0.0467164	0.7621541
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COQ6	0.0105128	0.7716673
ZNF213-AS1	0.0626773	0.7744928
SELENON	0.0545105	0.7744966
IKZF5	-0.1025709	0.7760502
BLCAP	-0.1048525	0.7808095
C1orf216	-0.0563848	0.7868021
SEC22B	0.1227805	0.7879356
CTDP1	-0.0853458	0.7933085
TAF11	-0.0700513	0.7952706
USP36	-0.0478581	0.7956367
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PIK3AP1	0.1157982	0.8019443
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CCDC26	0.0744439	0.8061808
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GOLGA2	0.0226683	0.8134501
GSK3B	0.1028649	0.814667
STXBP2	-0.1119176	0.8166061
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HNRNPD	0.161325	0.8326237
KBTBD3	0.0619306	0.838244
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MCM8	0.0602541	0.8546137
PGPEP1	-0.0659179	0.8564241
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KAT8	0.0537022	0.8675685
ZUP1	-0.0995332	0.8744109
TMEM69	0.0772464	0.8750156
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AGPAT3	0.0482151	0.8771243
GBA2	-0.0985512	0.8833381
USP10	0.0378639	0.8850621
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PRKAB2	-0.0372937	0.8939461
DIRAS3	0.0464328	0.8960032
EIF2AK4	0.1644119	0.8984994
CASP10	-0.1104109	0.9017461
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ANKRD54	-0.0057	0.907292
C20orf194	-0.0991735	0.9096249
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BABAM1	-0.0090054	0.9157222
UBALD1	-0.0856899	0.9180402
TTLL10	-0.0680709	0.9197084
CPT2	0.035755	0.924803
ZNF775	-0.1031816	0.9255627
DBNL	-0.138748	0.9292052
ACSL4	0.1332725	0.9323345
DAZAP1	-0.1505003	0.9356874
LDLRAD4	-0.2015231	0.9360283
ZBTB1	0.0968009	0.939417
PRICKLE1	0.0247112	0.9460863
TRPT1	0.0695619	0.9476106



TUBGCP3	0.0792495	0.9528169
VPS11	0.0593842	0.9544686
C11orf98	0.0504949	0.9564243
POLRMT	0.0227749	0.9575601
TVP23B	0.035565	0.9590395
ZNF169	0.0591649	0.9590829
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SCLT1	0.0698542	0.9643488
HINFP	-0.0426839	0.9651401
CCT6B	0.0412673	0.9666618
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ACYP2	0.0639876	0.969201
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COX10	0.0225892	0.9837633
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ZNF639	0.0816699	0.9875508
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PSMA3	-0.1703463	0.9892656
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GK5	0.0728285	0.9930354
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TET2	-0.1520795	1
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SNRPD3	0.0902117	1
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JPT1	-0.1367921	1
BCL10	-0.0962011	1
TOPBP1	0.1498736	1
MAP4	-0.1200348	1
PLD1	0.0415009	1
RALGPS2	0.0373568	1
SPRYD3	-0.0363426	1
ELP6	0.0922382	1
PLOD1	0.0481412	1
PLAA	-0.0954866	1
APOOL	0.1066179	1
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STAC3	0.0784774	1
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SCRIB	0.0169143	1
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VDAC2	0.1205011	1
DHX57	0.0463734	1
FN3KRP	0.0411909	1
LSM3	0.0184218	1
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SIK2	-0.0150373	1
BID	-0.1556592	1
LTBP3	-0.1480559	1
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AC147651.4	-0.089534	1
ADAM10	0.1288215	1
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NIT1	0.0514829	1
AC099518.5	-0.00639	1
UTRN	0.0755714	1
LINC00863	0.0138607	1
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GSTZ1	0.0545897	1
LARP1B	0.0723344	1
NDUFA7	0.1105343	1
PHIP	-0.0745117	1
SEPHS2	0.0289723	1
MAU2	-0.0048852	1
NFKBIB	-0.1433288	1
FLYWCH1	0.0467339	1
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ANXA7	-0.1529975	1
BANK1	0.0499295	1
TRIOBP	-0.1028546	1
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GRAMD1A	-0.0684679	1
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MVB12A	0.0846987	1

NOP16	0.1660266	1
COPS4	-0.1394682	1
ELMOD2	0.0647971	1
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SQOR	-0.0290324	1
SPNS1	-0.0461079	1
FAM120AOS	-0.1036975	1
ZNF433-AS1	0.1097475	1
EIF3H	-0.0951708	1
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MOGS	0.0337215	1
MFSD8	-0.0749168	1
RNF167	-0.0373987	1
SNHG7	-0.1268923	1
SPATA33	-0.0808655	1
AMACR	0.039137	1
MIIP	0.0522206	1
FARS2	0.0267003	1
POLR3A	0.0961899	1
SLC39A9	0.0336911	1
COPB2	0.0698582	1
FBXW4	-0.0234286	1
CHD8	-0.1391501	1
VTI1A	-0.100039	1
MAP3K12	0.0435883	1
SNHG21	-0.0868036	1
EVA1B	-0.2455049	1
FDFT1	-0.126552	1
STK3	0.0909594	1
CNDP2	-0.050803	1
SSH1	-0.1232091	1
NAGLU	0.0036761	1
CCNQ	-0.0737623	1
MCM3AP	0.0961601	1
MRM3	0.0144833	1
NUP85	0.0300585	1
FBRSL1	0.0664613	1
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CAMK2G	0.0893925	1
EPDR1	0.0943057	1
QRSL1	0.0679193	1
ZNF329	-0.0331439	1
SHLD2	-0.0411292	1
TUBGCP2	-0.0754825	1
N4BP2L2-IT1	0.0456402	1
PCSK7	-0.0964834	1
ZNF544	0.098853	1
JADE2	-0.0958324	1
FAM104A	-0.0388585	1
SMIM15	0.0581229	1

TEFM	0.0622398	1
CNP	0.0573074	1
SESN2	-0.0756767	1
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FNBP1	-0.1176242	1
MCM2	0.0478226	1
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ZC3H10	0.0218034	1
DALRD3	-0.1325359	1
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MYO15B	-0.107741	1
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POGZ	-0.1435061	1
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RAD21	-0.119827	1
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RFX7	0.0736625	1
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SUCO	-0.0455364	1
TOR1A	-0.0506031	1
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FLAD1	0.0288455	1
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PSMC2	-0.0914187	1
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RXRA	-0.1241566	1
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SESTD1	-0.1094141	1
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ZCRB1	0.1257988	1
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DCAF4	0.048712	1
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PSMC3IP	-0.061549	1
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SKP1	0.1610529	1
RAI1	-0.1406635	1
IBTK	0.1058965	1
HOXB6	-0.1554027	1
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TYK2	-0.0500231	1
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SSNA1	0.1422444	1
PHKG2	0.0177892	1
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DENND4B	-0.0561641	1
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DIS3	-0.0498428	1
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TRAPPC5	0.1204901	1
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SNAPC5	0.0802182	1
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ASB7	-0.0454551	1
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MAVS	-0.0616006	1
GNB4	-0.1382351	1
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AEBP2	-0.057725	1
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FLI1	0.0992866	1
PDS5A	0.0645431	1
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GPN1	-0.0356441	1
ACTA2	0.0581938	1
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BAP1	-0.0325576	1

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TRMU	-0.0112375	1
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LDLRAD2	-0.0376581	1
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PSPC1	-0.013847	1
BST1	-0.0088643	1
AL139260.1	0.0172919	1
TAF1A	-0.0050389	1
EMSY	0.0023994	1
AL591895.1	-0.0350023	1
PROSER2	-0.0029318	1
MRPL28	-0.0222142	1
ERP29	0.0166353	1
AC012615.1	-0.0145127	1
FAM161B	-0.0222504	1
ASB1	-0.0602376	1
RPL35	-0.0059055	1
ZFYVE28	0.0040453	1
LMF1	0.0221004	1
AC074032.1	0.0262689	1
ATG16L1	-0.0231169	1
LAMP1	0.0037015	1
KDM4C	-0.0013922	1
FPGS	-0.0132008	1
AC087190.1	-0.0138285	1
TMEM263	-0.0016426	1
FAM53B	0.0129157	1
TTC7B	0.0396764	1
NFIX	0.0330219	1
EIF5B	0.0259731	1
RPL7A	-0.0350138	1
EXD3	-0.0269714	1
ZDHHC4	0.0542243	1
BGLAP	0.0034839	1
MIR1-1HG-A	-0.0105458	1
AL096865.1	0.0142959	1
C9orf78	0.0427125	1
SRRD	0.0155766	1
RPS5	-0.0847496	1
ACOT8	-0.015836	1
ZFP1	-0.0349332	1
SIAH2	-0.0019843	1
ASL	-0.0732118	1
C12orf76	-0.0331871	1

ABCA7	0.0090899	1
TBC1D7	-0.0028204	1
DENND4C	-0.0056418	1
NCEH1	0.0246323	1
IL6ST	-0.0281636	1
AEN	-0.0116531	1
CTNNAL1	-0.0090549	1
KRBOX4	-0.0099928	1
BTF3	0.0253734	1
SLC38A1	-0.0848515	1
MYSM1	0.0347009	1
C7orf25	-0.0066822	1
LINC01943	0.013225	1
HCFC1R1	-0.0229164	1
ZBTB5	-0.0112243	1
FGD5-AS1	-0.0134784	1
PTP4A2	-0.0179023	1
DCUN1D2	-0.0054512	1
PROCA1	0.0064602	1
ZNF154	-0.0096558	1
INTS6L	-0.0002588	1
ARHGAP5	-0.0212324	1
TSC22D1-AS1	0.0142209	1
ZNF701	0.0137569	1
EML2	0.0314955	1
MEX3C	-0.0581492	1
LYST	0.0105692	1
EIF4A1	0.0001276	1
MTPAP	0.0046344	1
TMCO4	0.0212909	1
HNRNPK	-0.0196305	1
TBC1D22B	-0.0239453	1
TCTE3	0.0029316	1
TMEM254	0.0128858	1
AC103591.3	-0.0779775	1
ASTE1	-0.0338548	1
APTX	-0.0231412	1
RABL2B	-0.0231469	1
CAPS	-0.0122763	1
HIST1H2BF	-0.0152799	1
EBLN2	-0.035646	1
ZNF747	0.0025835	1
FGFRL1	-0.0569517	1
HDAC9	-0.0172446	1
FAM174A	0.0124643	1
TBC1D32	0.0291155	1
ITM2B	-0.0437816	1
AC139530.1	8.724E-05	1
ATP13A1	0.0367415	1
WDR59	0.0273629	1

NDUFA4	7.691E-05	1
MKNK1	-0.0768068	1
LRRC61	-0.0291097	1
C16orf70	0.0013677	1
ZNF263	0.0068574	1
PIK3R6	-0.0009033	1
RTL6	-0.0367877	1
MIGA1	-0.0136219	1
RELCH	-0.0414189	1
TMEM237	0.0149937	1
ZNF134	-0.0088014	1
ZNF7	-0.0182353	1
SLC25A17	0.0222095	1
PRKRIP1	-0.0297653	1
PIGO	-0.0031419	1
ZNF684	-0.0251098	1
ZNF548	0.0109171	1
HIST1H2BN	-0.0264125	1
GLIDR	0.0277409	1
DUSP28	-0.0131698	1
HSP90AA1	-0.0139616	1
DPCD	-0.023311	1
ZNF16	0.0251268	1
AC104530.1	-0.0145041	1
RAB11B-AS1	0.0223208	1
DDX5	-0.0828398	1
CASS4	-0.050509	1
MYH11	-0.0010018	1
ZNF200	-0.0028528	1
YME1L1	-0.0507455	1
CASTOR2	-0.0024529	1
FAM204A	-0.0259091	1
AC023157.3	-0.0179369	1
NRF1	-0.0399857	1
WDR53	0.0203787	1
SLC25A3	0.0114996	1
RPL23A	0.0034994	1
CACNA2D4	0.0245123	1
DNAJA1	0.0219227	1
TOR1B	-0.0301135	1
AMN1	-0.0170165	1
ZNF528	-0.0025721	1
RHNO1	0.006129	1
PPT2	-0.0093554	1
RDH13	-0.0368026	1
CTC1	-0.043713	1
ZNF710	-0.0247911	1
MARCH8	-0.0308886	1
AP3M1	-0.0169174	1
CIDEB	-0.0072848	1

AC009107.2	0.002991	1
ABR	-0.054382	1
MYO1B	0.0112774	1
RAB37	-0.0438951	1
RBBP7	0.0330628	1
AL355001.2	-0.0015328	1
BLOC1S3	-0.015981	1
SLC9A3-AS'	0.0087532	1
AP4M1	-0.0294492	1
DNAJC27	-0.0393691	1
AUH	0.0150959	1
RPL32	0.0154698	1
FKBP15	0.0092781	1
EGFL7	0.0050136	1
NOP53	-0.0049794	1
MGAT2	0.0025552	1
HACD1	-0.0090764	1
TPP2	0.0121802	1
LIPE-AS1	0.0007413	1
ACOT9	-0.0223561	1
BRCA2	-0.0545472	1
ZNF625	0.0325099	1
RRN3	-0.0034378	1
ATP5MC3	-0.0263011	1
LY6G5B	-0.0101094	1
C2CD3	0.0068192	1
TENT5C	0.0190866	1
MTG2	-0.008155	1
RETN	-0.0179444	1
TEPSIN	-0.0169325	1
ZBTB22	-0.0258598	1
APOBEC3F	0.0133533	1
NCF2	0.0049079	1
PITPNA	-0.0526986	1
SVIL	-0.0201341	1
CPPED1	-0.0191696	1
XRCC6	-0.0228077	1
ZNF570	-0.0187761	1
CKB	-0.0329647	1
HLA-DRB1	0.0242487	1
C2orf92	-0.0163823	1
CD38	-0.0554264	1
EXOC3-AS1	-0.0049029	1
SH3PXD2A	0.0348275	1
AL451165.2	-0.0133692	1
COA6-AS1	-0.0233127	1
RAB34	-0.0261253	1
ZNF689	0.0134457	1
ATG9A	-0.019768	1
GDPD1	-0.035996	1

ZFYVE27	-0.0218538	1
ZNF777	-0.008157	1
SRXN1	-0.0200053	1
AP4S1	-0.0233617	1
FAM161A	-0.0053526	1
TMEM217	-0.0154325	1
SYTL4	-0.0054823	1
RPS3	-0.0011641	1
PIM1	-0.0337384	1
IRF7	-0.0398186	1
TMEM106C	0.0197543	1
FAM118B	-0.0084889	1
HEXIM1	-0.0222382	1
CLDN15	0.0196072	1
ACSF2	-0.0077622	1
YPEL1	0.0304958	1
KIF3A	0.0103879	1
SMIM13	0.0019633	1
KIAA0753	-0.0122426	1
TMEM199	-0.0057841	1
RAPGEF2	-0.0085461	1
ZFYVE26	0.0250893	1
SAP25	0.00505	1
RNASEK	-0.0291694	1
NOL7	0.017464	1
AP5S1	-0.0190549	1
AKT1S1	-0.02929	1
MALAT1	-0.1744569	1
HSD17B7	-0.0316543	1
MT-ND4	-0.0212177	1
AC016773.1	0.002698	1
LRRC45	0.0259696	1
RPS4X	-0.009949	1
JAML	0.0479415	1
EEF1G	-0.0169826	1
MIF	0.0032917	1
HLA-F	-0.0349061	1

· cells after niche-like culture versus pre-culture (reference). Only genes expressed in :











































































































































































































































































































































































































































































>10% of single cells are reported. Log2 Fold Change (FC) and FDR-adjusted p-value.

**Supplementary Table 12. Differential gene expression averaged across 500 progenitor**

<b>Gene</b>	<b>log2FC</b>	<b>FDR q-value</b>
RPS10	-1.302091	0
LTC4S	-1.2596337	6.15E-147
MTRNR2L12	-1.0286435	1.69E-142
SKIL	-0.7897849	1.37E-121
FOS	2.3310221	3.20E-108
MMP2	-0.8935289	8.46E-104
RPL38	-0.4763086	2.23E-100
CYTL1	-1.4671716	4.44E-94
ANPEP	-0.8510645	9.52E-92
CTSD	-0.8262585	3.23E-91
MT-CO3	0.5084068	1.53E-86
APOC2	-1.1104556	3.03E-85
SMAD7	-0.4491532	7.12E-79
TPSAB1	-1.8184889	2.48E-78
CNR2	-0.3453214	1.14E-72
IFITM2	0.7218679	5.29E-72
MT-ND4L	-0.7006551	8.93E-71
CD38	-0.6323199	9.59E-71
FOSB	1.3592234	1.53E-70
RPL31	-0.4051034	1.66E-69
IFITM10	-0.3474545	4.23E-69
MT-ATP8	-0.7056511	5.97E-69
MCL1	0.8803093	8.74E-67
CD52	1.052483	9.16E-67
AIF1	0.6842086	9.99E-66
RPL15	0.3263446	1.25E-65
IER2	0.9973649	4.61E-65
JUND	0.7140664	3.50E-63
CD99	0.8336662	5.86E-59
EIF1	0.4500772	6.93E-58
CD69	0.9147348	7.83E-58
SPINK2	0.927367	2.60E-56
RPS29	-0.3163295	3.03E-55
HOPX	0.7884328	2.79E-53
PIM1	0.7022934	1.62E-52
LY6E	0.6331989	2.15E-52
DUSP1	0.8848142	9.20E-51
XBP1	0.6969639	1.84E-50
MZB1	0.9098959	2.91E-50
TNFSF14	-0.3036764	1.27E-49
EGR1	0.9007287	3.58E-49
EGFL7	0.7167445	4.55E-49
JUNB	0.7837937	4.96E-49
MRC2	-0.3895307	5.77E-49
TMSB4X	-0.6526172	2.11E-48
ANKRD28	0.6787728	3.86E-48
RUNX3	-0.5716959	6.09E-48

SKI	-0.4276833	2.97E-47
HTRA3	-0.4036809	1.82E-45
CD96	-0.5355033	1.85E-45
GATD3A	-0.3562996	1.39E-44
NOTCH1	-0.365864	1.77E-44
WASHC1	-0.400955	4.76E-44
CST7	0.6276572	1.22E-43
RPS27	-0.2496889	1.71E-43
HCST	0.8012914	2.73E-43
RPS9	0.3049122	1.14E-42
RASGRP3	-0.5469849	1.32E-42
RPL37	-0.2762695	4.16E-42
JUN	1.1661832	4.93E-41
CTNND1	-0.3931089	5.25E-40
SVIL	0.5798918	7.83E-40
CYP1B1	-0.4011932	4.51E-39
SLC44A1	-0.6014042	9.58E-39
RALGAPA2	-0.3889502	9.85E-39
RPS20	-0.3273754	3.06E-38
DMTN	-0.1806791	4.73E-38
UQCR10	-0.4428398	7.55E-38
MT-ATP6	0.3161488	1.17E-37
STK17A	-0.3577566	2.15E-37
IRF2BP2	-0.4964152	4.83E-37
MPG	0.5191985	1.21E-36
CEBPA	-0.5603371	6.24E-36
PCBP2	-0.3805092	9.31E-36
PWWP3A	-0.3338207	1.29E-35
PLCG2	-0.6615587	2.01E-35
RPL39	-0.2771049	2.41E-35
DUSP6	0.8580076	2.91E-35
GMFG	0.4015139	6.02E-34
VNN1	0.4168944	8.98E-34
SNHG6	-0.3663112	1.25E-33
LPCAT2	-0.5650176	2.69E-33
KLF6	0.850318	2.99E-33
LAPTM5	-0.4923003	3.10E-33
FUCA1	-0.3094557	8.43E-33
FAM30A	0.8384089	1.16E-32
ST3GAL6	-0.3257263	1.92E-32
UNC5B	-0.2255954	3.59E-32
JAML	0.380947	3.86E-32
LACC1	-0.3479855	1.01E-31
MYL12B	-0.3346058	1.39E-31
NUDT1	0.3700079	2.05E-31
CAPG	-0.5451379	3.36E-31
ZFP36	0.5333229	4.88E-31
S100A11	-0.5090226	5.34E-31
NDUFV2	0.4058537	7.67E-31
RPL34	-0.2471415	1.78E-30

S100A9	0.2769292	2.56E-30
FAM43A	-0.2868003	8.34E-30
AHNAK	0.5298441	1.22E-29
AC020916.1	0.625496	1.98E-29
ITGA5	-0.3297787	2.45E-29
ORAI1	0.3661231	4.70E-29
CTR9	-0.4696261	1.22E-28
RPL3	0.2796377	1.28E-28
SOX4	-0.5910137	1.47E-28
NKG7	0.4554928	1.01E-27
ACP5	-0.2057354	1.41E-27
QSOX1	-0.2757676	1.49E-27
ANXA1	0.359836	1.53E-27
MAP1A	0.5266521	1.67E-27
LRRC75A	-0.7482679	2.02E-27
ORAI2	-0.3872229	2.02E-27
FTL	-0.4199557	4.20E-27
WASIR1	-0.1376473	1.58E-26
PLEC	-0.1750994	1.96E-26
RNASE3	-0.3405919	2.01E-26
RPL13	0.2487174	2.14E-26
RGS16	-0.196459	2.91E-26
NARF	-0.2822456	3.13E-26
TSTD1	0.3820451	3.78E-26
NEAT1	0.5366506	4.58E-26
PLXDC2	-0.4415582	5.00E-26
TUBA1A	0.7520331	5.28E-26
MEF2C	0.606914	5.31E-26
ADGRG1	0.3567618	6.11E-26
EMB	0.5103903	7.86E-26
LDLRAD4	-0.3563008	1.40E-25
ARL2	0.2455662	1.48E-25
SLC16A3	-0.3663122	1.71E-25
CDH26	-0.2232781	2.07E-25
CCNL1	0.4629778	2.18E-25
MAPKAPK3	0.3273738	2.76E-25
MGST1	-0.5530965	2.94E-25
FRY	-0.3619164	4.34E-25
ZMIZ1	-0.3846843	6.49E-25
IGLL1	0.814896	1.40E-24
RPL19	0.2247011	2.86E-24
RPL35A	-0.2091658	3.08E-24
NDRG1	-0.3574194	5.25E-24
RPL8	0.2304696	6.06E-24
SQSTM1	-0.3852285	6.71E-24
NCOA4	-0.4243465	7.52E-24
DENND11	-0.314829	8.33E-24
IFITM3	0.4564989	9.94E-24
ATP2B1-AS'	0.3683668	1.34E-23
TPM4	0.5234649	1.42E-23

TIPARP	-0.3928882	1.47E-23
IFI30	-0.4525803	1.52E-23
CTNNB1	-0.3042088	1.55E-23
JCHAIN	1.5353699	1.83E-23
MARCH3	-0.1187736	1.86E-23
AC104530.1	-0.1951295	2.50E-23
MTRNR2L8	-0.3461589	2.52E-23
MT-ND2	-0.3499185	3.77E-23
TUBB	0.4469286	4.63E-23
TXNIP	0.4803252	5.44E-23
TMEM173	0.3606606	5.46E-23
FRG1	-0.2995851	6.54E-23
KCNQ1OT1	-0.762586	4.85E-22
CDKN1C	-0.4937993	5.93E-22
CD82	-0.365545	7.10E-22
COBLL1	0.3824197	7.41E-22
SERPING1	0.2793951	1.27E-21
PLPPR3	-0.3876968	1.64E-21
ST8SIA6	-0.3593483	1.95E-21
STAG3	-0.1106931	2.22E-21
PPBP	0.6845586	2.36E-21
TSPO	0.3553046	2.94E-21
GLIPR1	0.6467331	3.05E-21
LSM7	0.3468464	3.53E-21
RPS15	0.2107642	3.82E-21
ACSM3	-0.6341883	3.97E-21
PABPC1	-0.3192366	4.06E-21
HNRNPH1	-0.3114405	5.56E-21
CALM1	0.4319423	6.45E-21
C3	-0.1042021	1.12E-20
RPL7A	0.193787	1.28E-20
CTSC	0.3567913	1.28E-20
ALDOA	-0.2735631	1.39E-20
RPL18A	0.2687117	1.46E-20
GOLGA8O	-0.150071	1.71E-20
GPR183	-0.280597	1.89E-20
SRGN	-0.7510084	2.11E-20
TNRC18	-0.3792412	2.26E-20
HLA-DPA1	0.4695747	2.27E-20
SQOR	-0.305633	2.92E-20
LCP1	0.4068664	3.07E-20
SPI1	-0.3483064	3.30E-20
FKBP2	-0.1541704	4.30E-20
DERL3	-0.120217	5.17E-20
FLT3	0.5003979	5.32E-20
TRG-AS1	0.5518501	7.68E-20
STAT1	-0.2127535	8.98E-20
AL627171.2	-0.3252219	9.82E-20
CDC42SE1	-0.2168871	1.12E-19
NCF2	0.2792875	1.19E-19

EVA1B	0.2884591	1.49E-19
LRPAP1	-0.4009159	1.54E-19
DNAJB6	-0.326222	1.60E-19
TIMP1	0.4599651	1.69E-19
MANF	0.3418061	2.28E-19
HMOX1	-0.1599619	2.57E-19
C1orf56	-0.2274538	3.12E-19
RPL41	-0.187038	5.24E-19
MAFG	-0.2339252	5.76E-19
GMCL1	-0.2869089	6.95E-19
INSIG1	-0.2475116	7.43E-19
PCNA	0.1110529	8.44E-19
TCF4	0.6238082	9.45E-19
AC244502.1	-0.5634916	9.94E-19
RPL29	0.2174122	1.20E-18
CD79B	0.228503	1.64E-18
ETV6	-0.2911886	1.97E-18
LINC00926	-0.1683429	3.76E-18
SNHG25	-0.2858995	3.85E-18
PLEKHO1	-0.3410686	4.07E-18
TUBB4B	0.337545	4.18E-18
NINJ1	-0.1365159	4.48E-18
VSIR	0.3501091	4.80E-18
PRDX4	0.2822175	5.22E-18
AC007952.4	0.4656429	7.48E-18
NPIP5	-0.2007855	7.59E-18
PRSS21	0.2263506	7.97E-18
DUSP2	0.35104	8.00E-18
ENG	-0.1731154	8.85E-18
LAMP1	-0.2403496	9.13E-18
ITGAE	-0.2940815	1.80E-17
TGIF1	-0.1789215	2.64E-17
IER3	-0.2336853	3.13E-17
CFLAR	-0.3439727	4.11E-17
PTBP3	0.278529	4.22E-17
NEK6	-0.2277866	4.70E-17
RPS8	0.1931794	5.04E-17
VASH1	-0.1381793	5.89E-17
BIRC2	-0.1904758	8.83E-17
LAMP2	-0.3163452	9.54E-17
NCF1	-0.2273707	1.126E-16
CELF2	-0.4024448	1.134E-16
HOXA3	-0.2034465	1.295E-16
MYCN	-0.3358157	1.342E-16
NCBP3	-0.3376753	1.352E-16
COX6B1	-0.2967554	1.498E-16
PPP3CA	-0.2865251	1.624E-16
ARHGAP25	0.333781	1.651E-16
ERV3-1	-0.1966802	1.844E-16
LMNB1	-0.1848446	2.081E-16



SLC35E2A	-0.1607763	2.529E-16
CD36	0.5536571	2.664E-16
TPM3	0.3484828	2.995E-16
DOCK10	-0.2178194	3.582E-16
TNFRSF14	-0.1843571	3.867E-16
CBWD1	-0.1507259	4.412E-16
ZMAT5	-0.1765298	4.985E-16
RNASET2	0.2606837	5.833E-16
NPIPB4	-0.1441875	5.996E-16
EIF4EBP1	0.1890435	6.471E-16
CCZ1	-0.1580595	6.799E-16
CD300LF	-0.1646798	6.95E-16
PIGX	-0.1847703	7.853E-16
PPP1R14B	0.2968265	1.001E-15
SOCS3	0.2675555	1.045E-15
DDX3X	0.3791458	1.045E-15
MYH9	-0.3393477	1.379E-15
IFNGR2	-0.1882681	1.398E-15
AHRR	-0.076537	1.61E-15
RALGDS	-0.2345257	1.786E-15
NECAP2	0.1648629	1.999E-15
BTG2	0.4393784	2.225E-15
S100A4	0.4231044	2.473E-15
ASCL2	-0.1490001	2.889E-15
CD200	0.2332625	3.041E-15
FMNL3	-0.1064774	3.116E-15
FAM47E	0.1329739	3.205E-15
MRPL17	0.1132658	3.62E-15
SOCS2	0.250118	4.333E-15
FAM89B	-0.1463642	4.665E-15
EFHD2	0.1642815	4.916E-15
SLC1A4	-0.1331464	5.376E-15
GOLGA8N	-0.1908993	6.117E-15
XIRP2	0.1868162	7.082E-15
IL2RA	0.2809442	7.254E-15
GSN	0.2639728	7.866E-15
PTPMT1	-0.1802183	8.187E-15
JMJD6	-0.0654044	8.511E-15
MXRA7	-0.1067897	8.858E-15
LMO4	-0.332806	9.029E-15
SORL1	-0.4540184	9.093E-15
S100Z	0.3384833	1.099E-14
CDK2AP2	-0.0049336	1.101E-14
ENDOG	0.1348041	1.321E-14
SDK2	-0.0803753	1.468E-14
MRPL22	0.0098284	1.638E-14
HSPG2	-0.1261944	1.666E-14
FIS1	0.1886105	1.831E-14
GNA12	-0.2533327	1.841E-14
PFDN1	-0.1923755	1.912E-14

MCM7	0.0709788	2.193E-14
CHMP6	-0.1187378	2.213E-14
ZC3HAV1L	-0.012683	2.258E-14
SELPLG	0.1688187	2.27E-14
TSC22D4	0.0897853	2.278E-14
GOLGA8M	-0.081519	2.361E-14
RASSF5	-0.0939258	2.388E-14
CFD	-0.8444304	2.402E-14
RYBP	-0.2200897	2.474E-14
CNST	0.3054826	2.539E-14
AC068587.4	-0.1781234	2.627E-14
AC092069.1	-0.1515522	2.647E-14
SPON2	-0.1994588	2.657E-14
LST1	0.3999005	2.673E-14
GUCY1A1	0.3879527	3.602E-14
SASH3	-0.1343263	4.182E-14
AL355922.1	-0.4326243	4.207E-14
PPT1	-0.2152445	4.279E-14
MDK	0.3287352	4.298E-14
C1orf162	-0.2974923	4.347E-14
NTHL1	0.1624278	4.803E-14
CCND3	0.2796548	5.044E-14
H3F3A	0.2202523	5.444E-14
NRG4	-0.2326394	5.676E-14
RAB37	-0.247318	6.442E-14
PSIP1	0.2643474	6.556E-14
HCFC1R1	0.0465027	7.087E-14
H2AFV	-0.30004	8.477E-14
OSER1	-0.0950699	1.131E-13
EPDR1	0.1294751	1.333E-13
AC012615.1	-0.0796596	1.391E-13
PCBD1	0.2047361	1.433E-13
SV2A	0.1848974	1.46E-13
ISG15	0.2380961	1.479E-13
CD59	0.248164	1.488E-13
RRP1	0.0591881	1.636E-13
BCL2	-0.2517809	1.676E-13
GPR108	-0.087001	1.81E-13
BIN1	0.2657033	1.827E-13
MIR155HG	0.2603105	1.955E-13
ZNF69	-0.100148	2.036E-13
SAMD11	-0.0729203	2.318E-13
CHID1	0.1221488	2.506E-13
AC005670.3	-0.1406029	2.866E-13
TRABD	-0.1631998	2.921E-13
RPS21	-0.1549585	3.203E-13
COPRS	0.0039069	3.362E-13
PSMC5	0.1644002	3.383E-13
MIA2	-0.1389774	3.477E-13
ADAM28	-0.3225906	4.146E-13

BAHCC1	-0.2569026	4.516E-13
RPS5	0.1887831	4.574E-13
TMEM248	-0.059234	4.616E-13
GTF2A2	0.2179358	4.686E-13
FGR	-0.0671712	4.96E-13
NUTM2A-AS	-0.1811339	5.06E-13
TBC1D15	0.1902018	5.11E-13
NFYC	-0.0591318	5.275E-13
GPN1	-0.0013726	5.76E-13
KLF2	0.1852822	5.965E-13
KLHL24	-0.2288586	6.995E-13
WASHC4	-0.2112103	7.149E-13
GPR132	-0.0751555	8.801E-13
ANGPT1	0.4226399	9.613E-13
RGS10	-0.341642	1.021E-12
RPL27	-0.1314025	1.033E-12
CCDC85B	0.2597449	1.255E-12
FNIP1	-0.2559964	1.314E-12
S1PR4	0.2071479	1.525E-12
SH3GLB1	-0.2547152	1.533E-12
SNRPC	0.0357429	1.551E-12
PRR5L	0.1642802	1.602E-12
CKLF	0.344578	1.783E-12
GOLGA8R	-0.1700886	1.793E-12
PPM1F	0.1707337	1.818E-12
SNHG32	-0.2556628	1.832E-12
RASAL3	-0.1968484	2.002E-12
IFI16	0.3598838	2.015E-12
MAP3K2	-0.2492906	2.127E-12
R3HDM4	0.0388535	2.242E-12
KCNK17	0.1710131	2.279E-12
TNK2	-0.1358678	2.321E-12
PIK3CB	-0.2314715	2.453E-12
PROC	-0.1237447	2.548E-12
LINC02019	-0.072567	2.806E-12
EIF2S3	-0.2647072	3.251E-12
WDR45B	-0.2364368	3.322E-12
RAP2C	-0.094221	3.541E-12
RPS14	0.1797103	3.599E-12
TSPAN32	0.1899854	3.884E-12
H6PD	-0.1135829	3.977E-12
CTNBL1	-0.0928327	3.997E-12
DOCK1	0.2788711	4.263E-12
DPP7	0.2784084	4.292E-12
RAB1A	0.0324823	4.309E-12
PIH1D1	0.0968886	4.405E-12
MRPL51	0.1584757	4.784E-12
DNM1L	-0.0340896	4.84E-12
DNMT3A	-0.1656202	5.009E-12
RTCB	0.0557173	5.017E-12

NABP1	0.2882355	5.065E-12
CNOT6	-0.0817129	5.184E-12
EVI2B	-0.2680471	5.282E-12
MXD1	-0.2354872	5.445E-12
APOE	-0.0804928	5.68E-12
FUT7	-0.198323	5.79E-12
MRPL11	0.1645004	5.922E-12
POLR2C	-0.0347984	5.938E-12
ERGIC1	0.2216881	6.601E-12
CAMKK2	-0.1578104	6.794E-12
GALNT2	-0.29549	7.165E-12
SEC22B	-0.1224902	7.314E-12
METTL26	0.2452815	7.611E-12
PGS1	-0.1374865	8.064E-12
MRPS34	0.1356576	8.367E-12
PHF5A	-0.1555758	8.562E-12
HADH	0.1130341	8.978E-12
RABL2B	-0.1384423	9.006E-12
LAIR1	-0.2819253	9.143E-12
VDAC3	0.1948623	1.003E-11
AC016773.1	-0.0304016	1.071E-11
ADAM17	-0.1669738	1.079E-11
SNRNP40	0.0108624	1.136E-11
CHMP4B	-0.1791358	1.221E-11
CENPJ	-0.1858481	1.241E-11
MAF1	0.0675938	1.262E-11
IL3RA	-0.2806939	1.345E-11
CBFB	-0.1799515	1.368E-11
NAA50	0.0647514	1.504E-11
CASP2	-0.169138	1.505E-11
AP001059.3	-0.036238	1.509E-11
ITGB1BP1	0.0964244	1.525E-11
PPP1R15A	0.3372759	1.586E-11
P2RY8	-0.280221	1.73E-11
RPLP2	-0.1331511	1.796E-11
TMEM38B	0.2049818	1.989E-11
FCHSD2	-0.1604359	2.013E-11
XYLT1	-0.1089647	2.017E-11
FLNA	-0.2676688	2.04E-11
GRK2	-0.19206	2.057E-11
MAZ	-0.2191414	2.085E-11
ASAH1	-0.3465755	2.178E-11
MAD2L1	0.0216777	2.214E-11
RNF144A	-0.1235993	2.241E-11
SMN1	-0.0763635	2.312E-11
IFT57	0.1797931	2.403E-11
CDKN2AIPN	0.003386	2.41E-11
EPB41L3	-0.0860926	2.417E-11
HPRT1	0.1691475	2.45E-11
TBCB	0.07697	2.453E-11

MCM4	0.1356051	2.482E-11
PALD1	-0.1062613	2.577E-11
ZMPSTE24	-0.0464131	2.644E-11
RPL37A	-0.1525646	2.709E-11
ATG12	-0.1878082	2.768E-11
FTH1	-0.4167102	2.769E-11
GNPAT	-0.031319	2.786E-11
MGST2	0.1975534	2.798E-11
AP1M1	-0.0302468	2.879E-11
C9orf139	-0.1225573	3.027E-11
FAM117A	-0.2569779	3.227E-11
MFSD14A	-0.0415777	3.234E-11
RNF166	-0.1970159	3.374E-11
ATP2C1	-0.2300208	3.401E-11
SNHG19	-0.1425944	3.489E-11
HDAC3	-0.0024655	3.635E-11
MRPL12	0.1292048	3.649E-11
TMEM41B	-0.0359716	3.699E-11
RPL28	0.1650596	3.715E-11
LINC01355	-0.1106723	3.826E-11
MZT2A	0.1993548	3.948E-11
AC026471.4	-0.08131	4.019E-11
ATF6B	-0.0949817	4.391E-11
MZT2B	0.2584169	4.471E-11
HLA-DPB1	0.377652	4.489E-11
GRK6	0.0861283	4.506E-11
ABHD10	-0.0154194	4.668E-11
MAP4K3-DT	0.1688346	4.725E-11
CRYGD	0.2449342	4.92E-11
PHB	0.1737567	5.101E-11
ZNF561	-0.0521731	5.848E-11
KANSL1L	-0.1321576	5.91E-11
HOXB2	-0.189898	5.925E-11
CISH	0.2219928	5.94E-11
UQCC2	0.0936188	6.012E-11
MGMT	0.1320801	6.111E-11
LNX2	-0.0753472	6.165E-11
F8A3	-0.0773401	6.619E-11
C16orf54	-0.1295431	7.221E-11
ZNF511	0.1095561	7.499E-11
SYNC	-0.1318239	7.757E-11
SMG1	-0.2627164	8.487E-11
C19orf25	0.0200602	8.72E-11
AL354733.3	-0.1236448	8.811E-11
JKAMP	-0.1271551	9.36E-11
GNA15	0.236392	9.531E-11
TNFAIP3	-0.1429959	9.54E-11
KCNAB2	-0.2514409	9.823E-11
TRIM2	-0.0710571	9.832E-11
CLCN7	-0.1190516	9.941E-11

DDX39A	-0.0329763	1.004E-10
STARD4-AS	-0.0959556	1.049E-10
LINC01409	-0.1271767	1.068E-10
MGAT2	-0.0430925	1.086E-10
RAB34	0.1195983	1.104E-10
CARD19	0.1250259	1.123E-10
DENND1B	-0.2175423	1.136E-10
PMAIP1	0.2287496	1.185E-10
RAD51C	0.0280999	1.203E-10
PHKG1	-0.1338548	1.208E-10
GYPC	0.2566142	1.251E-10
ATP1B3	0.1648291	1.302E-10
MRPL57	0.2098914	1.365E-10
BMP2K	-0.2409578	1.41E-10
REX1BD	0.1439276	1.503E-10
SLC40A1	-0.5697423	1.512E-10
SUCNR1	0.5186885	1.53E-10
YARS	0.0093584	1.551E-10
OSBPL8	-0.2285698	1.593E-10
CRLS1	-0.0590329	1.607E-10
IRF5	-0.0816682	1.614E-10
CCNC	-0.0865284	1.629E-10
PCMT1	-0.2007396	1.681E-10
ARPC5L	0.1218184	1.695E-10
SMIM7	-0.0044016	1.737E-10
AC092747.4	-0.0994376	1.754E-10
ZBTB8OS	-0.0273968	1.784E-10
ATXN2L	-0.0744365	1.886E-10
ZNF516	-0.1225425	1.937E-10
CYHR1	0.1133157	1.937E-10
NAA20	0.0618129	2.002E-10
MAPRE1	-0.0375628	2.003E-10
CBWD5	-0.1356451	2.026E-10
TMEM128	-0.0347998	2.143E-10
GBGT1	-0.0814358	2.18E-10
AHR	0.2435507	2.267E-10
SAMM50	0.0559037	2.271E-10
AC092171.5	-0.0510913	2.278E-10
HEXD	-0.127769	2.287E-10
NAXE	-0.0077871	2.368E-10
AC009107.2	-0.042643	2.372E-10
DHX8	-0.0361666	2.505E-10
TAB2	-0.0276109	2.521E-10
MRPS12	0.1761594	2.542E-10
ERAP1	-0.0908502	2.638E-10
HNRNPA1P4	-0.0688172	2.642E-10
HCFC1	-0.0392741	2.699E-10
ATP5MC1	0.2283858	2.732E-10
GNS	-0.0552616	2.791E-10
REXO2	0.1038988	2.822E-10

IGFBP7	0.1399365	2.992E-10
RPL22	-0.134685	3.156E-10
INTS11	0.05412	3.377E-10
RIOX1	-0.0145366	3.385E-10
PDLIM2	0.191538	3.483E-10
NDUFV1	0.0775657	3.582E-10
ZFAS1	-0.2307808	3.618E-10
AC010883.3	-0.1015171	3.667E-10
NPTN	-0.0961699	3.677E-10
C4orf48	0.2129872	3.749E-10
AC004918.1	-0.0644869	3.768E-10
PDHA1	0.0366741	3.824E-10
C14orf119	-0.0028663	4.076E-10
STON2	0.2298655	4.283E-10
C11orf54	-0.1290403	4.321E-10
ZNRF1	-0.0824968	4.388E-10
GPX4	-0.2151866	4.6E-10
SNX13	-0.0472195	4.701E-10
LINC01082	-0.0573672	4.738E-10
CCDC107	0.0944794	4.823E-10
PRRC2A	-0.0349413	4.846E-10
PARP1	0.227439	4.879E-10
FHOD1	-0.0712174	5.043E-10
EPG5	-0.0751554	5.057E-10
FAHD2A	-0.0933157	5.222E-10
YBX3	0.2758624	5.252E-10
AC083798.2	-0.061026	5.259E-10
FBRS	0.0221262	5.278E-10
ENC1	-0.0937777	5.387E-10
BHLHE40	-0.1813321	5.5E-10
CEBPB	-0.2558329	5.52E-10
MEX3B	-0.1408227	5.531E-10
RNASEH2C	0.2151591	5.726E-10
SCN1B	0.1500772	5.849E-10
NAGPA	-0.0074224	6.089E-10
TP53	-0.1248732	6.389E-10
MIS18BP1	-0.2482704	6.605E-10
MRPL21	0.0870001	6.89E-10
CD33	0.2041645	7.07E-10
FKBP5	0.1486799	7.077E-10
NDUFA13	0.1898155	7.079E-10
DGKQ	-0.0938029	7.276E-10
S100A6	0.2834033	7.294E-10
NME4	0.1332393	7.33E-10
PIK3R1	0.3401022	7.432E-10
GALK1	0.0740488	7.455E-10
MRPL36	0.1154424	7.537E-10
AC027601.6	-0.167914	7.574E-10
RPA3	0.0716352	7.608E-10
MCM5	0.0283737	7.791E-10

ELP5	0.0460659	7.858E-10
RNF41	-0.0658223	8.289E-10
RCC2	-0.1627037	8.315E-10
TBC1D1	-0.0766213	8.418E-10
VPS39	-0.0540924	8.459E-10
RNASE2	-0.4901644	8.914E-10
SRPRA	-0.0054479	8.966E-10
FAM107B	-0.2479031	9.124E-10
MIR222HG	-0.1072364	9.154E-10
NMRAL1	0.0944552	9.214E-10
PYCR2	0.0191021	9.246E-10
ARID2	-0.1008385	9.276E-10
HMGB1	-0.2204875	9.374E-10
CREBZF	-0.1852401	9.741E-10
GPCPD1	-0.1459218	9.774E-10
EPM2AIP1	-0.1849199	1.013E-09
PGAM1	-0.1753097	1.028E-09
RFFL	-0.1726813	1.035E-09
SACM1L	-0.0036459	1.038E-09
TEX264	0.1174939	1.051E-09
TRAPPC4	-0.0159173	1.061E-09
RAPGEF1	-0.0725706	1.062E-09
CLPP	0.089913	1.077E-09
SIPA1L3	-0.0532767	1.083E-09
SELENOK	-0.0927218	1.104E-09
PLEKHJ1	0.0723925	1.148E-09
ZADH2	-0.027445	1.153E-09
STK17B	0.2557637	1.157E-09
CALR	-0.317976	1.159E-09
PPP1R10	0.2172152	1.218E-09
AHSA1	0.0328327	1.231E-09
AC103591.3	0.2395834	1.248E-09
SLC38A10	-0.0941111	1.249E-09
MGRN1	-0.0787081	1.286E-09
TES	-0.1870162	1.29E-09
TP53INP1	-0.1382601	1.294E-09
PNP	0.2064108	1.325E-09
ARRDC2	-0.1436776	1.328E-09
ATP6AP1	-0.0967539	1.353E-09
MRPS23	0.02363	1.363E-09
CLASP1	-0.0702005	1.441E-09
PTTG1IP	-0.1837947	1.499E-09
AC008105.3	-0.0566904	1.511E-09
HLA-C	0.3422837	1.518E-09
TOP2B	-0.2232132	1.523E-09
JAGN1	0.1781782	1.535E-09
NPW	0.2602498	1.57E-09
TNFAIP8L1	-0.1063942	1.582E-09
AMN	0.1932466	1.584E-09
PDLIM7	-0.1131615	1.605E-09



TSPYL4	0.0730803	1.66E-09
THRA	0.0033867	1.683E-09
MRPS2	0.0610472	1.684E-09
RPL18	0.160031	1.691E-09
LMO7	-0.0959107	1.71E-09
NDUFAF3	0.1724371	1.767E-09
ARHGAP4	0.1332041	1.783E-09
CHP1	-0.1157611	1.816E-09
GRHPR	0.1768661	1.828E-09
MAN2C1	0.0063497	1.83E-09
WHAMM	-0.1479258	1.883E-09
DAPK1	0.2176739	1.963E-09
PINK1	-0.0257634	1.988E-09
DHX40	-0.095666	2.025E-09
RREB1	-0.2654752	2.063E-09
POLR2I	0.0501081	2.064E-09
AC007336.1	-0.1438052	2.089E-09
CCDC106	0.0185362	2.105E-09
MCM3AP	-0.101869	2.163E-09
HOMER3	-0.176811	2.165E-09
ACOX1	-0.0968797	2.203E-09
EXOSC8	-0.0087184	2.205E-09
AUH	-0.057758	2.327E-09
IDS	-0.2575738	2.368E-09
DEK	0.2399276	2.402E-09
UBAC1	0.0118162	2.404E-09
MRPL27	0.0977013	2.476E-09
SNHG30	-0.0210948	2.495E-09
POLE	0.1131226	2.593E-09
GNPTG	-0.1193797	2.615E-09
CPT1A	-0.2173597	2.685E-09
TTF2	0.0382759	2.757E-09
MRPS28	0.0382479	2.759E-09
SLC39A1	-0.0042534	2.789E-09
IL9R	-0.0563218	2.796E-09
MATR3.1	-0.1040915	2.808E-09
DYNC1H1	-0.154825	2.815E-09
SIVA1	0.1204859	2.842E-09
DAB2	0.1747161	2.855E-09
DCTPP1	0.1379289	2.889E-09
SPARC	0.1939064	2.906E-09
RIPOR2	0.2198999	2.919E-09
MYCBP	0.0012544	2.982E-09
TXLNA	0.0331003	3.055E-09
OSGEP	0.0918703	3.06E-09
CNPPD1	0.0025603	3.14E-09
LAMTOR3	-0.0987105	3.19E-09
COPG1	-0.0428374	3.209E-09
LRRC41	0.0313803	3.253E-09
EMC6	0.0637426	3.432E-09

AC004540.2	-0.1078675	3.436E-09
NUP153	-0.0389506	3.499E-09
TRIM16	0.1654935	3.59E-09
CYSLTR1	0.1828467	3.594E-09
LTB	0.4114259	3.597E-09
STN1	0.148099	3.635E-09
CLU	0.3503461	3.675E-09
INKA1	0.2320798	3.706E-09
RHEB	-0.0626741	3.725E-09
MRPS10	0.0269301	3.79E-09
ATAD2B	-0.0546925	3.808E-09
MANBA	-0.1834537	3.849E-09
ERG	0.2443304	3.864E-09
EIF5A	-0.0138809	3.887E-09
SNRPA1	0.0662618	3.893E-09
HERC2	-0.2337864	3.938E-09
SOCS1	0.2060252	3.946E-09
ALG3	0.0584395	3.965E-09
STAB1	-0.2170197	3.982E-09
POLR2H	0.0590383	4.081E-09
DHFR	0.0524044	4.101E-09
ZCCHC3	-0.0829044	4.205E-09
ATP2A3	-0.1819632	4.25E-09
NMT1	-0.1603326	4.295E-09
TMEM11	0.0429649	4.444E-09
MAPKAPK5-	0.0135859	4.481E-09
EFHC1	-0.0613755	4.619E-09
ANKRD33B	-0.0972472	4.624E-09
COX7A2L	-0.1633074	4.698E-09
PUF60	0.0088329	4.777E-09
UTP18	0.0916994	4.86E-09
CASTOR2	-0.0764282	4.886E-09
UBXN6	-0.0297615	4.888E-09
ATP8A1	-0.096486	4.913E-09
MYH11	-0.0641168	5.099E-09
CD7	-0.2183798	5.212E-09
HECTD1	-0.1889972	5.243E-09
C11orf74	0.1688341	5.277E-09
SMAD6	-0.0553449	5.338E-09
ZNF790-AS1	-0.0543111	5.359E-09
SUPT5H	-0.0294445	5.366E-09
DGCR6L	-0.0143318	5.376E-09
EMC7	-0.0079726	5.454E-09
RABGGTB	-0.0478048	5.591E-09
ARL17B	-0.0615626	5.61E-09
PPIH	0.0400922	5.611E-09
MTA2	-0.0213149	5.763E-09
PRPF19	0.0233246	5.773E-09
NIBAN1	-0.2757539	5.96E-09
ABT1	0.0260513	5.999E-09

SNRPD3	-0.2166177	6.174E-09
HAVCR2	-0.004877	6.196E-09
MPV17L	-0.0650481	6.308E-09
AL021368.2	-0.2062399	6.431E-09
RRP7A	0.1096047	6.493E-09
UGGT1	-0.0643878	6.553E-09
TTC24	0.127014	6.636E-09
GET1	0.0121976	6.664E-09
SDSL	0.1301911	6.788E-09
PAQR3	-0.0523306	6.799E-09
TRIM56	-0.273504	6.878E-09
PSENE1	-0.0575663	7.208E-09
SVIP	0.1835218	7.273E-09
HMG20A	-0.0016421	7.295E-09
GTF3C1	0.0499502	7.321E-09
AC025159.1	-0.0566746	7.405E-09
AP3M1	-0.0717536	7.501E-09
NRF1	-0.0352655	7.529E-09
PITHD1	0.0095025	7.543E-09
AKNA	-0.0651621	7.557E-09
SLC20A2	-0.1219398	7.644E-09
WASIR2	-0.054171	7.755E-09
NELFA	0.0217014	8.017E-09
MVB12A	0.0558628	8.124E-09
H2AFY	0.3317026	8.15E-09
DENND6B	-0.0893807	8.276E-09
C19orf48	0.1561335	8.276E-09
IGHM	0.4387597	8.311E-09
EEF1G	0.1677144	8.364E-09
PTCD3	-0.0437352	8.406E-09
PSMF1	0.0033622	8.438E-09
NFKBIL1	0.004693	8.501E-09
GOLIM4	-0.1777461	8.631E-09
MIGA1	-0.0203164	8.642E-09
AL390728.6	-0.1269917	8.916E-09
GADD45A	0.1902294	8.925E-09
NBDY	0.1511969	8.991E-09
USO1	-0.078269	9E-09
SP1	-0.1297917	9.061E-09
HLA-DMA	0.1948061	9.07E-09
EP300	-0.1961117	9.151E-09
NCAPD3	0.0433322	9.194E-09
GNB4	0.070165	9.333E-09
HM13	0.1136699	9.347E-09
AC044849.1	0.1531216	9.641E-09
COMMD9	-0.0921309	9.911E-09
METRNL	0.1533833	1.004E-08
RFX2	-0.1271533	1.042E-08
VWF	-0.2785079	1.044E-08
ZBTB44	-0.2088784	1.056E-08

ZNF680	-0.1184937	1.062E-08
JDP2	-0.0306969	1.07E-08
MBD1	-0.0349601	1.071E-08
ASXL1	0.037232	1.077E-08
BCKDK	0.0841164	1.079E-08
ZNF362	-0.0395874	1.095E-08
ZNF302	-0.1041302	1.098E-08
BST2	0.2451969	1.098E-08
HDDC3	0.1074273	1.114E-08
PNPO	0.0041787	1.116E-08
SS18	-0.1401979	1.13E-08
TMBIM6	-0.16548	1.13E-08
NSD1	-0.0896948	1.173E-08
ARRDC1	-0.0316095	1.198E-08
SH3BP1	-0.0388513	1.232E-08
DKC1	0.1069635	1.246E-08
TRAPPC11	-0.0746067	1.258E-08
E2F4	-0.027872	1.262E-08
RANGRF	-0.0225752	1.268E-08
IMPDH2	0.2569313	1.275E-08
CHROMR	-0.1942743	1.278E-08
CTU1	0.0369905	1.281E-08
RHOH	-0.1218307	1.301E-08
MRPL15	0.1152048	1.313E-08
RNPEPL1	-0.0593108	1.321E-08
CALCOCO1	-0.0461589	1.326E-08
AC100810.1	0.062505	1.331E-08
POLG2	-0.0871815	1.336E-08
ARL8A	-0.0445084	1.344E-08
FAM160B1	-0.0558634	1.364E-08
USP39	-0.0205826	1.371E-08
AL109811.2	-0.0354828	1.388E-08
SLC48A1	-0.1074681	1.424E-08
EMILIN2	0.1104282	1.438E-08
CCNG2	-0.1076563	1.471E-08
PPP4C	-0.022689	1.513E-08
MED27	-0.0005186	1.542E-08
MRPL44	0.0039607	1.635E-08
STIP1	0.0863922	1.645E-08
THOC1	-0.105218	1.681E-08
DNAJC30	0.0054041	1.709E-08
ATP6V0A2	-0.2143625	1.722E-08
CTBP1	-0.1800971	1.747E-08
SCAF1	-0.0121156	1.747E-08
ATG14	-0.084722	1.777E-08
RFXANK	0.0759018	1.792E-08
MAN2B2	-0.0913826	1.824E-08
ZMYND11	-0.0459502	1.925E-08
UBE2M	0.0769032	1.932E-08
LSM6	0.0702475	1.941E-08

PET100	-0.210741	1.947E-08
PNPLA8	-0.0141198	1.997E-08
PIP5K1A	-0.0229716	2.018E-08
TXN2	0.1660157	2.04E-08
ZBTB16	-0.2324251	2.065E-08
EBNA1BP2	0.1061491	2.067E-08
NDE1	0.0630543	2.088E-08
FBXW2	-0.0529593	2.094E-08
ANKRD13D	-0.0480193	2.107E-08
AK5	0.1726388	2.111E-08
DMAC2	-0.0136966	2.19E-08
KHSRP	-0.0698441	2.23E-08
LINC00667	-0.0445028	2.231E-08
SCNM1	0.0059324	2.234E-08
SDHB	0.0048308	2.238E-08
CHMP1B	-0.1247534	2.24E-08
HAUS7	-0.0593245	2.248E-08
TOP1MT	-0.1781672	2.252E-08
MYDGF	0.1419247	2.26E-08
SESN1	0.059023	2.286E-08
URM1	0.0447626	2.289E-08
NCOA3	-0.1337994	2.308E-08
ADAM8	-0.159364	2.321E-08
LYN	0.1823152	2.33E-08
TRPS1	0.1255627	2.36E-08
SORT1	0.0922887	2.389E-08
EXOC4	-0.0416415	2.419E-08
NDUFA8	0.0727944	2.421E-08
PIN1	0.059182	2.462E-08
BSG	-0.1879481	2.463E-08
HOXA6	-0.0848901	2.485E-08
SIN3B	-0.0408382	2.555E-08
GORASP1	-0.0144283	2.566E-08
AC025171.4	-0.0512157	2.621E-08
ZC3H7B	-0.0520931	2.676E-08
RBBP4	-0.1555567	2.727E-08
TUBA1B	0.3531574	2.732E-08
CASS4	0.1391121	2.737E-08
FAM122B	-0.0692628	2.738E-08
HIST1H4J	-0.0618529	2.763E-08
ABTB1	-0.0351305	2.766E-08
MCM6	0.0974612	2.784E-08
TMCC1	-0.0588125	2.804E-08
MKRN2	-0.0108358	2.817E-08
BLVRB	0.1721294	2.866E-08
MRPL37	0.1111305	3.058E-08
DCTN5	-0.0508092	3.089E-08
GSK3B	-0.0669724	3.133E-08
TRIM27	-0.0974883	3.148E-08
AP5B1	-0.1445641	3.158E-08

GNL3	-0.0566817	3.176E-08
FMNL1	-0.1238736	3.21E-08
RMC1	-0.0191932	3.224E-08
NDUFAF8	0.0969059	3.241E-08
WDR26	-0.0593333	3.249E-08
UNKL	-0.1070651	3.26E-08
YIPF3	-0.0001599	3.303E-08
NGDN	-0.0379263	3.319E-08
RNFT1	-0.1183897	3.352E-08
CD244	-0.0845811	3.386E-08
RBM3	-0.2296399	3.396E-08
LAP3	0.035831	3.465E-08
PPM1A	-0.0551338	3.489E-08
CSF3R	-0.2797331	3.552E-08
UBQLN1	-0.0537359	3.563E-08
LINC00685	-0.0841128	3.622E-08
LSM4	0.1474047	3.662E-08
CNOT11	-0.0770736	3.668E-08
SIRT2	0.0147515	3.751E-08
TMEM50B	-0.0572494	3.754E-08
ATP1B1	0.2816336	3.798E-08
ZNF181	-0.0083584	3.918E-08
C22orf39	-0.034514	3.954E-08
ADAP1	-0.1126801	4.003E-08
PPP1R15B	0.0630301	4.086E-08
KRIT1	-0.0291021	4.097E-08
SYNE3	0.1366136	4.231E-08
ITGA4	-0.2457529	4.247E-08
PPIE	-0.0087379	4.292E-08
SF3B4	-0.0438487	4.311E-08
UBE2S	0.0991441	4.382E-08
RBM4B	-0.0177757	4.408E-08
UCP2	0.1161324	4.441E-08
CYB561A3	-0.0163264	4.493E-08
NDUFB8	0.1887625	4.52E-08
RPL10	0.1337422	4.68E-08
INTS8	-0.0050145	4.712E-08
AIF1L	0.1958465	4.746E-08
COTL1	-0.1026829	4.8E-08
TAGAP	-0.0549222	4.805E-08
GUK1	0.1032729	4.848E-08
LINC01226	-0.2401482	4.891E-08
ANKAR	-0.028201	4.921E-08
AC245297.3	-0.2385449	4.943E-08
NDUFA7	0.0983781	5.088E-08
AC138150.1	-0.0182444	5.149E-08
AC253572.2	0.1973721	5.156E-08
CD44	0.2924685	5.158E-08
RING1	-0.039142	5.196E-08
METTL5	0.1069521	5.238E-08

RNH1	0.1036112	5.243E-08
RPL30	-0.119456	5.302E-08
RBM12	-0.0076253	5.323E-08
MIB1	-0.1722744	5.359E-08
COQ5	0.0528074	5.529E-08
TXNRD1	-0.1715519	5.568E-08
SSNA1	0.1382799	5.603E-08
MTHFD1	0.0058851	5.617E-08
CBX3	-0.1949432	5.629E-08
GPAA1	0.0586807	5.664E-08
DTYMK	0.0618789	5.794E-08
CEBPG	-0.0387571	5.829E-08
SSH2	-0.0174897	5.867E-08
LPIN1	-0.054811	5.878E-08
ROBO3	0.1056499	5.904E-08
KLF4	0.0720463	6.035E-08
TNIP2	0.0528905	6.07E-08
NUP58	-0.0024828	6.075E-08
FAM192A	-0.0434167	6.183E-08
ZC3H18	0.0469083	6.524E-08
PCID2	0.0329826	6.547E-08
CDK4	0.1178492	6.557E-08
APAF1	-0.1068013	6.565E-08
CISD1	0.0753496	6.568E-08
SLC9A3R1	0.0147119	6.646E-08
DEDD2	-0.0197151	6.707E-08
DERA	0.0092456	6.854E-08
ZNF433-AS1	-0.0968599	6.869E-08
SIPA1	-0.1209655	6.95E-08
ZNF746	-0.0350471	6.961E-08
BUD31	0.0567683	7.008E-08
ARF5	-0.1160389	7.026E-08
ZNF66	-0.1282062	7.032E-08
TMEM245	-0.083206	7.11E-08
GABARAPL1	-0.0870651	7.111E-08
KCTD5	-0.0977611	7.155E-08
TUBA1C	0.1113822	7.157E-08
AC108863.2	-0.0407123	7.168E-08
CXorf38	0.1502764	7.231E-08
RCBTB1	-0.0912615	7.239E-08
TACC3	-0.0067794	7.295E-08
LDLRAD2	0.1688831	7.309E-08
FAM76B	-0.0500449	7.354E-08
USP4	-0.0417425	7.36E-08
ZNF714	-0.0895413	7.422E-08
ARL6IP6	-0.0311447	7.437E-08
UBR5-AS1	-0.181593	7.505E-08
RPP25L	0.0665627	7.616E-08
ZNF490	-0.076735	7.669E-08
YDJC	0.0657538	7.683E-08

REPIN1	-0.1270563	7.744E-08
ABHD14A	0.110904	7.814E-08
LETM1	-0.0266579	7.829E-08
GIGYF1	-0.0462758	8.001E-08
FAM41C	-0.058244	8.025E-08
SNX20	0.0111289	8.026E-08
FAM102A	-0.0817369	8.057E-08
AP2A1	-0.0159404	8.083E-08
ARID5A	-0.0894828	8.084E-08
CBLL1	-0.0656808	8.092E-08
DDIT4	-0.117069	8.102E-08
DPY19L4	-0.0755016	8.125E-08
COPS6	0.1143169	8.207E-08
THOC3	-0.0867363	8.228E-08
COASY	-0.0031846	8.275E-08
AKR1A1	0.0889291	8.311E-08
AC025040.1	-0.0953948	8.362E-08
SMG7	-0.0165706	8.479E-08
FAM207A	0.1074809	8.508E-08
DMAP1	-0.0112887	8.593E-08
C16orf74	-0.1317086	8.595E-08
DNAJC9	0.1090503	8.645E-08
TMED2	-0.0002608	8.833E-08
ATP8B4	-0.2847312	8.834E-08
OIP5-AS1	-0.2152811	8.914E-08
MAP7D3	0.0376656	8.943E-08
NPM3	0.0841785	9.042E-08
C20orf96	-0.0653508	9.233E-08
EXOSC5	0.1100052	9.239E-08
RAB4B	-0.0394966	9.268E-08
BOLA2B	-0.0874117	9.413E-08
GCN1	0.0118245	9.432E-08
PCMTD2	-0.0539404	9.599E-08
COPS7B	-0.013253	9.607E-08
GMNN	0.0683271	9.62E-08
GTF2IRD2B	-0.0592188	9.677E-08
EIF2D	-0.046949	9.746E-08
PPP1CA	0.094843	9.802E-08
HSBP1L1	0.1401698	9.842E-08
FRYL	-0.0600569	9.86E-08
MCM3	0.0840502	9.97E-08
PDAP1	0.0040911	1.019E-07
RETREG2	-0.0265733	1.022E-07
FANCA	-0.0368313	1.025E-07
NHLRC3	-0.1103793	1.027E-07
STUB1	0.1025452	1.033E-07
AC005921.2	-0.0210068	1.049E-07
SEMA4D	0.0212636	1.05E-07
GTF3C6	0.0149952	1.079E-07
COX15	-0.0214197	1.081E-07



MT-CYB	0.2007046	1.098E-07
SURF4	-0.0639182	1.105E-07
KLHDC3	0.0125087	1.106E-07
TGFBR2	0.0440504	1.108E-07
ADCY7	-0.0724249	1.115E-07
SPSB1	-0.0534612	1.123E-07
RABL2A	-0.0848208	1.126E-07
NSFL1C	0.0167907	1.128E-07
SEPTIN11	0.2052498	1.148E-07
STOML2	0.140233	1.159E-07
STRAP	0.0628001	1.167E-07
C1orf52	-0.008026	1.171E-07
FBH1	-0.0005168	1.18E-07
GNG5	-0.2032812	1.183E-07
SMURF2	-0.0979832	1.183E-07
NRROS	0.0009584	1.188E-07
NOP14	0.0486258	1.2E-07
NLRC3	-0.1062932	1.204E-07
MAML1	-0.0648239	1.222E-07
TMEM170A	0.0137054	1.229E-07
MDP1	0.0797756	1.235E-07
MYB	-0.2388324	1.24E-07
ARL6IP1	-0.2186989	1.246E-07
IFRD2	0.0618546	1.265E-07
TRIP4	-0.0902097	1.3E-07
GATAD2B	-0.1093067	1.311E-07
ALOX5AP	0.1564579	1.324E-07
RANBP1	0.1691126	1.326E-07
RBM23	-0.1048389	1.329E-07
MAPK6	-0.1379212	1.339E-07
BRD9	-0.011403	1.347E-07
ZNF687	-0.028384	1.357E-07
TBC1D2	-0.0660443	1.36E-07
ITPK1	-0.0964824	1.367E-07
RAMAC	-0.0668342	1.421E-07
MFSD14C	-0.0915784	1.434E-07
RPL10A	0.1298612	1.435E-07
POC5	-0.021914	1.446E-07
THYN1	0.0142208	1.449E-07
LINC01252	-0.0721084	1.459E-07
MAPRE2	0.0877865	1.481E-07
CS	-0.0258798	1.493E-07
C5orf51	-0.0100695	1.494E-07
KLF13	-0.1623485	1.501E-07
ARL6IP4	0.2208958	1.505E-07
POLDIP3	-0.0021049	1.521E-07
TRIM28	0.0084349	1.524E-07
APMAP	0.0228887	1.529E-07
RNF24	-0.2014135	1.531E-07
ICAM3	0.1426628	1.556E-07

MFSD1	-0.1627314	1.567E-07
PPP1R3E	-0.1465216	1.586E-07
RRP9	0.0205144	1.598E-07
FBXO22	-0.208723	1.616E-07
OTUB1	-0.0433509	1.619E-07
METT15	-0.0694967	1.624E-07
FBXO11	-0.0339141	1.639E-07
ZNF593	0.0971247	1.654E-07
HIC1	-0.046698	1.668E-07
CERS5	-0.0147329	1.688E-07
PHPT1	0.1937178	1.703E-07
VRK3	0.0369409	1.711E-07
LZTFL1	-0.0106168	1.714E-07
EPB41	-0.170434	1.715E-07
RPS3	0.1493603	1.722E-07
COMMD7	0.1738964	1.722E-07
NCKAP1L	-0.1586934	1.724E-07
PGGT1B	-0.0829652	1.724E-07
NAGK	0.0005832	1.726E-07
BAALC	0.1836445	1.735E-07
ADH5	-0.0508037	1.741E-07
LSM14B	0.0531651	1.808E-07
MRPL32	0.0343633	1.811E-07
RPL36A	-0.1479175	1.814E-07
FUS	0.241027	1.835E-07
GPS2	-0.0930347	1.853E-07
NFXL1	0.0038828	1.857E-07
USP22	-0.0553896	1.861E-07
TOPBP1	-0.0558928	1.863E-07
BRWD1	-0.1472367	1.909E-07
SMC2	-0.1014245	1.925E-07
NUP42	-0.0405393	1.972E-07
GAB3	-0.0448204	1.974E-07
AC123768.4	-0.0334115	1.991E-07
PSMD3	0.0361597	2.001E-07
PSMG4	0.0706946	2.011E-07
WSB1	-0.2302978	2.014E-07
THAP12	0.0588587	2.058E-07
HECA	-0.0165051	2.095E-07
SPTLC1	-0.0442485	2.097E-07
XPO4	-0.0608666	2.105E-07
PKIG	-0.0976245	2.125E-07
KANSL1	-0.1123042	2.125E-07
ELP3	-0.027311	2.162E-07
MTMR9	0.0179754	2.179E-07
GOSR1	-0.0023919	2.186E-07
WDFY1	-0.1518652	2.193E-07
APOOL	-0.0388164	2.195E-07
CHMP3	-0.0656653	2.198E-07
SUDS3	0.0241125	2.199E-07

DHRS4	-0.0117222	2.204E-07
IST1	-0.1331661	2.21E-07
IREB2	-0.0302128	2.211E-07
FDX1	-0.0395184	2.213E-07
MRPL38	0.0671972	2.217E-07
PDCD5	0.1457626	2.225E-07
LRRK1	-0.110829	2.229E-07
DGKE	-0.1409421	2.237E-07
B4GALT5	-0.128412	2.244E-07
GAMT	0.1788257	2.318E-07
ANKRD49	-0.0332001	2.326E-07
SLC9A3R2	0.0998603	2.335E-07
ARL6IP5	0.3133017	2.35E-07
DUSP10	-0.1049045	2.354E-07
FHL3	-0.1441316	2.357E-07
NT5C3B	0.0553671	2.358E-07
LSG1	-0.1048506	2.368E-07
LIX1L	-0.0314581	2.371E-07
HSPD1	0.2171032	2.389E-07
BUD23	-0.0112556	2.391E-07
SERF2	0.2094794	2.405E-07
RRP36	0.0029068	2.425E-07
QTRT1	0.0209372	2.439E-07
ATP2B4	-0.0892099	2.447E-07
IVD	0.0194706	2.447E-07
AMD1	-0.1152559	2.455E-07
TSIX	-0.0636424	2.46E-07
TXN	0.241642	2.468E-07
MTOR	-0.0178018	2.543E-07
MRFAP1L1	-0.0420416	2.56E-07
RXRA	-0.051438	2.569E-07
MOSPD2	-0.072574	2.572E-07
TNFAIP8	-0.2897536	2.587E-07
LINC-PINT	0.1828828	2.589E-07
LSM1	0.0811247	2.611E-07
SERTAD2	0.1207597	2.64E-07
SNX19	-0.0234768	2.657E-07
GTF2I	-0.21472	2.725E-07
COPS5	-0.0380966	2.732E-07
NFAT5	-0.0686195	2.741E-07
CABIN1	-0.1570935	2.743E-07
ARHGEF2	-0.0512915	2.785E-07
TATDN3	-0.0061967	2.797E-07
ABHD2	-0.1934634	2.805E-07
ADGRE5	0.1840608	2.856E-07
CEP95	-0.0733556	2.874E-07
TMEM189	-0.0281625	2.883E-07
MAD2L2	0.0956885	2.922E-07
STMN1	0.0502528	2.925E-07
HYPK	-0.0546143	2.929E-07

PDHB	-0.0295156	2.933E-07
UBE2J2	0.0199635	2.946E-07
ERVK3-1	-0.037827	2.948E-07
NOMO1	-0.0724449	2.97E-07
CXCR4	-0.1585818	2.974E-07
SNU13	0.2139033	2.982E-07
CDC42SE2	-0.1031027	2.987E-07
MID1IP1	-0.0517875	3.029E-07
LTN1	-0.0657265	3.032E-07
DDX56	0.0281066	3.045E-07
TNFSF12	-0.0747116	3.057E-07
CYB5R4	-0.1296047	3.091E-07
HTATSF1	0.0585453	3.113E-07
RFC4	0.0116255	3.122E-07
FKBP8	0.0606184	3.136E-07
PRKAG1	-0.0196675	3.139E-07
CDK11B	-0.0856275	3.209E-07
DCPS	0.0302188	3.218E-07
SMIM24	-0.3152242	3.241E-07
CSF2RB	-0.3617779	3.265E-07
ICAM2	0.1166236	3.301E-07
NUDC	0.1091142	3.334E-07
CALM3	0.1081131	3.347E-07
HK1	0.0687501	3.375E-07
COQ8A	-0.0317264	3.425E-07
AC006480.2	-0.0869612	3.428E-07
B4GALT1	-0.0536929	3.431E-07
UBA1	-0.0518902	3.463E-07
MYPOP	-0.0384613	3.486E-07
PIKFYVE	-0.1404267	3.497E-07
ACADS	0.0422514	3.504E-07
METAP1	-0.0547646	3.531E-07
CEPT1	-0.0317551	3.55E-07
THEMIS2	0.0917307	3.58E-07
IRAK3	-0.1902257	3.593E-07
DPM2	0.0214201	3.625E-07
NT5C	0.1056397	3.665E-07
MED30	0.0120313	3.704E-07
ISCA2	-0.018519	3.75E-07
LMAN2	0.0765169	3.757E-07
TECR	0.0560374	3.775E-07
SETD2	-0.0803533	3.776E-07
LIMD2	-0.2215527	3.803E-07
RENBP	-0.0748856	3.893E-07
HLA-DRA	0.3094525	3.899E-07
CIZ1	-0.0981919	3.918E-07
MYSM1	-0.0993148	3.921E-07
SYK	0.0586072	3.973E-07
ZNF600	-0.0754331	4.069E-07
OPRL1	-0.0278	4.092E-07

DLGAP1-AS	0.1483398	4.103E-07
FBXL20	-0.1374638	4.109E-07
NUP43	-0.058982	4.14E-07
C20orf27	0.1199905	4.15E-07
RHOT1	-0.0906618	4.182E-07
POLD2	0.0529681	4.211E-07
ARPC4	-0.0500775	4.255E-07
TMEM91	0.0707099	4.26E-07
LMF2	0.0154761	4.412E-07
RPS18	0.1566307	4.422E-07
MAPKAPK2	-0.078264	4.422E-07
HSPA5	0.136402	4.433E-07
ZNF207	-0.1883804	4.443E-07
CYTH3	-0.0461055	4.473E-07
TMEM161B	-0.2309644	4.491E-07
MRPS35	0.0127508	4.603E-07
ZNF431	-0.2793863	4.611E-07
TDRD3	-0.0368956	4.616E-07
API5	-0.0369823	4.675E-07
TIMM23	-0.0116043	4.683E-07
NOTCH2	-0.1141756	4.692E-07
POLE3	-0.1028351	4.729E-07
SERINC5	-0.1540734	4.761E-07
PHC2	-0.0188425	4.773E-07
SLC25A16	-0.0487159	4.815E-07
CCZ1B	-0.0784371	4.816E-07
CACNA2D4	-0.0192142	4.843E-07
SYNGR2	-0.152098	4.853E-07
NSL1	-0.0073361	4.882E-07
COMMD2	-0.0163772	4.885E-07
FAAP20	0.1312392	4.898E-07
CSNK1G3	0.0023889	4.9E-07
ARL5A	-0.0712772	4.931E-07
THUMPD3-A	-0.1652835	4.946E-07
GORASP2	-0.0235561	4.948E-07
CKS1B	0.1083075	4.964E-07
LRG1	-0.0823239	4.967E-07
B3GALNT2	-0.068868	4.971E-07
HACD3	0.1026867	5.005E-07
TAP1	0.0328244	5.089E-07
TMUB2	-0.0008233	5.109E-07
GPR27	-0.1486596	5.123E-07
DAZAP1	-0.105737	5.132E-07
CCT2	0.1476175	5.133E-07
GSTP1	0.2061933	5.144E-07
KPNA3	-0.102984	5.145E-07
NRBP1	-0.0518778	5.249E-07
SNRNP27	-0.0833262	5.329E-07
BLCAP	0.0170792	5.357E-07
NBPF12	-0.0598532	5.36E-07

RPS19BP1	0.0629224	5.368E-07
MEMO1	-0.09985	5.381E-07
ADAM15	0.0914904	5.402E-07
COQ4	0.0025189	5.483E-07
ZDHHC4	-0.0024711	5.511E-07
ELK3	-0.1838459	5.55E-07
LPCAT4	-0.031961	5.566E-07
ZNF384	-0.0584529	5.577E-07
RGS19	-0.1520002	5.578E-07
WNK1	-0.0472411	5.59E-07
SRP68	-0.028001	5.59E-07
ANAPC13	-0.0081567	5.606E-07
PLD3	0.0085478	5.736E-07
DCK	0.1409417	5.778E-07
DUSP14	0.0113992	5.846E-07
CNTROB	-0.0352951	5.864E-07
MAGOH	-0.0731699	5.881E-07
LPCAT3	0.0801349	5.885E-07
PYM1	0.0711241	5.941E-07
NELFB	-0.0188877	5.946E-07
STX5	0.029489	5.952E-07
TBC1D20	-0.048695	5.983E-07
NSUN5	-0.0889609	6.01E-07
VTI1A	-0.0387112	6.022E-07
TYK2	-0.0569294	6.136E-07
AP002748.4	-0.0319796	6.218E-07
BRAP	-0.0555825	6.236E-07
LRRC26	0.1530006	6.239E-07
PRKCB	0.1422275	6.277E-07
ZBTB4	-0.0604926	6.313E-07
ADIPOR1	0.000584	6.35E-07
MGAT4A	-0.0696086	6.414E-07
TMEM9B	0.0282207	6.533E-07
TUBE1	-0.0269674	6.555E-07
AUP1	0.0654995	6.557E-07
KANTR	-0.0466685	6.566E-07
MYADM	-0.0728614	6.571E-07
TPD52L2	-0.012224	6.625E-07
MRPL4	0.1267496	6.668E-07
SAFB	-0.0755979	6.676E-07
DCUN1D1	-0.0879583	6.704E-07
ERAP2	-0.0729947	6.717E-07
DLST	-0.0225678	6.739E-07
SUMO1	0.0561388	6.757E-07
BAIAP2-DT	-0.0170874	6.802E-07
SLC25A38	-0.058635	6.852E-07
RPRD1A	-0.077244	6.862E-07
PSMB8	0.2377193	6.894E-07
TCF12	0.033416	6.901E-07
LTV1	-0.0210872	6.971E-07

MLLT6	-0.0324639	7.042E-07
UBR2	-0.0350067	7.087E-07
ACO2	-0.0167047	7.136E-07
SNRNP25	0.0448381	7.145E-07
THAP9-AS1	-0.0581057	7.159E-07
PPP3R1	-0.0978414	7.24E-07
ATAD3C	-0.0406308	7.272E-07
LCP2	0.1097891	7.317E-07
PATL1	-0.0087761	7.329E-07
TRIM11	0.0056399	7.344E-07
GMPS	0.0964425	7.363E-07
NSF	-0.0351358	7.409E-07
RNF113A	0.0343694	7.457E-07
SSBP3	-0.0984101	7.502E-07
UMPS	0.0338111	7.508E-07
GTPBP6	0.0423322	7.559E-07
MRPL39	0.0024543	7.634E-07
SDHA	-0.0747589	7.642E-07
GLIPR2	0.1193838	7.655E-07
NUP50	-0.0951742	7.751E-07
PIGK	0.0230466	7.789E-07
VPS26C	0.0740305	7.815E-07
VPS51	0.0573925	7.907E-07
PIN4	-0.0527142	7.925E-07
KIAA1109	-0.1075452	8.004E-07
OCEL1	-0.0172405	8.024E-07
HPS6	-0.0105468	8.033E-07
ALDH6A1	-0.0457441	8.046E-07
SEC14L1	0.0568015	8.046E-07
VPS45	-0.0560211	8.065E-07
ALKBH5	-0.0326938	8.131E-07
SEC61A1	0.007694	8.239E-07
MFN1	-0.0448026	8.263E-07
TOR1AIP2	-0.0375617	8.291E-07
ATP13A2	-0.073594	8.354E-07
CSNK1D	-0.0554158	8.399E-07
WDR70	-0.1234665	8.447E-07
PRRG4	-0.1683063	8.513E-07
SLC25A39	0.0281406	8.595E-07
SUSD6	-0.0387538	8.779E-07
FLOT1	-0.1419002	8.899E-07
CDK7	-0.0559	8.957E-07
TST	-0.0306013	8.959E-07
SWAP70	-0.2097583	8.985E-07
IRAK4	-0.0904672	9.012E-07
SH3TC1	0.0110512	9.024E-07
VKORC1	0.1392761	9.067E-07
RASGRP2	-0.1125062	9.197E-07
CETN3	-0.0498573	9.235E-07
MYO15B	-0.0123348	9.34E-07

MTCH1	0.0175141	9.383E-07
AC099518.5	-0.0493337	9.567E-07
PMVK	0.0446733	9.628E-07
VPS25	0.0556628	9.64E-07
GATA2	-0.4387877	9.679E-07
RAB2B	-0.0010215	9.685E-07
MTMR3	-0.0965232	9.704E-07
PSMD2	0.0095332	9.705E-07
NME1	0.2104088	9.716E-07
AC091607.2	-0.0817612	9.72E-07
MIEF1	-0.0282395	9.806E-07
PADI2	-0.0560183	9.833E-07
XPNPEP3	-0.037467	9.835E-07
NSMAF	-0.0871807	9.888E-07
ACTR1A	-0.0307119	9.902E-07
NFKBIE	-0.0566401	9.909E-07
GNG7	-0.0267251	9.95E-07
HIST1H2AC	-0.1957629	1.001E-06
RO60	-0.0696856	1.004E-06
SNX17	0.071189	1.005E-06
ZNF260	-0.0351879	1.009E-06
TMEM33	-0.0715114	1.019E-06
UVRAG	0.025949	1.049E-06
PSMD14	0.009466	1.054E-06
TM2D3	0.0206234	1.066E-06
TMBIM1	-0.1252383	1.067E-06
PSEN1	-0.1159492	1.071E-06
LINC01410	-0.0429411	1.073E-06
GLB1	-0.0527358	1.089E-06
CAB39	-0.0493733	1.091E-06
SAR1A	-0.0439435	1.094E-06
HDAC9	0.0918416	1.094E-06
CSNK1G2	-0.0706072	1.096E-06
CHST14	-0.0241429	1.098E-06
GOLPH3	0.0657256	1.103E-06
AC005332.6	-0.062158	1.106E-06
MBTPS2	-0.0042585	1.113E-06
UBE2Q2	-0.1286588	1.115E-06
MRPL33	-0.244708	1.117E-06
TOR1A	-0.0915482	1.122E-06
KDM1A	0.0045189	1.123E-06
INO80D	-0.113491	1.126E-06
CBX4	0.0215202	1.128E-06
SYF2	-0.2016889	1.13E-06
MRPL9	0.0561121	1.138E-06
NOC4L	0.0194744	1.147E-06
RMDN3	-0.0185573	1.162E-06
HIGD1A	-0.017906	1.175E-06
LINC02035	-0.0297828	1.176E-06
TSFM	0.016932	1.185E-06



ARFGAP2	0.0442786	1.195E-06
CCT6A	0.1094218	1.2E-06
APTX	-0.0400755	1.222E-06
IGFLR1	-0.0751766	1.226E-06
ETFB	0.1688663	1.227E-06
TOMM70	0.0219548	1.231E-06
ZNF524	-0.0101949	1.235E-06
ZNF84	-0.0839336	1.237E-06
AC009950.1	-0.0316834	1.252E-06
ARF4	-0.1299099	1.254E-06
AFMID	-0.0849771	1.255E-06
FN1	0.107967	1.258E-06
LINC01089	-0.0470961	1.262E-06
UHRF2	-0.0296163	1.263E-06
AL592183.1	-0.1123065	1.267E-06
MAPKAPK5	-0.0123317	1.271E-06
SCAMP3	-0.0212472	1.287E-06
MPC2	0.105206	1.291E-06
UTP11	-0.0741706	1.295E-06
SLC35E2B	-0.0938962	1.298E-06
BCL7C	0.0688798	1.305E-06
ALKBH3	0.0050825	1.311E-06
CYLD	-0.1255801	1.313E-06
MCEE	-0.0265516	1.316E-06
PPP4R1	-0.0435932	1.318E-06
PSMB9	0.1628379	1.321E-06
PDLIM1	0.232029	1.324E-06
KIAA2026	-0.1111938	1.326E-06
AC103769.1	-0.0416938	1.334E-06
RBCK1	0.0909387	1.339E-06
ITGAL	0.2281817	1.367E-06
ALG8	0.0095889	1.37E-06
KDM4A	-0.1842116	1.373E-06
SYMPK	0.004828	1.378E-06
ZNF322	-0.0375866	1.379E-06
CFL2	-0.0777384	1.389E-06
MRPL54	0.0948745	1.395E-06
DBNL	-0.0535309	1.429E-06
STX10	0.0841048	1.429E-06
RTN4R	0.0697439	1.433E-06
TMEM97	0.0172324	1.434E-06
PPP1R35	0.0022915	1.446E-06
MRPS26	0.0594201	1.458E-06
AZU1	-0.5717209	1.483E-06
C1GALT1	0.0303372	1.484E-06
BCL7B	-0.0341882	1.488E-06
BCL2L13	-0.0568646	1.489E-06
FAM102B	-0.0691367	1.498E-06
TFG	-0.0156763	1.504E-06
MED12	-0.0198198	1.507E-06

OSTF1	-0.0695124	1.508E-06
MRPL47	0.0038865	1.514E-06
XAB2	-0.0301036	1.514E-06
PRPS2	-0.0034981	1.516E-06
ARHGEF40	-0.1022121	1.529E-06
YAF2	-0.0918388	1.532E-06
CSNK2A2	-0.0389209	1.536E-06
LENG1	0.0308026	1.538E-06
MEX3C	0.039537	1.553E-06
DDA1	0.0213275	1.558E-06
JOSD1	-0.0175636	1.575E-06
SNCA	0.0583107	1.578E-06
RBM4	0.0318624	1.58E-06
WBP2	-0.0549668	1.595E-06
RNF145	-0.0752171	1.612E-06
RBM18	-0.0217983	1.622E-06
SDHC	-0.1420607	1.64E-06
JPX	-0.213248	1.645E-06
TMEM144	0.0142098	1.648E-06
GRSF1	0.0710447	1.652E-06
ZNF701	-0.0297579	1.665E-06
UQCC3	0.0299967	1.666E-06
EMD	0.0265642	1.668E-06
RBBP8	0.0046952	1.674E-06
ARHGAP18	0.1721063	1.689E-06
ZC3HC1	-0.0072127	1.705E-06
MKNK1	-0.023101	1.713E-06
PRRC2B	-0.0983661	1.718E-06
BLOC1S2	-0.0059342	1.719E-06
TMEM199	-0.0280278	1.729E-06
LYRM1	0.1523212	1.735E-06
PRRC1	-0.0632839	1.742E-06
SLC39A11	-0.0808387	1.744E-06
SLC35A1	-0.0822853	1.751E-06
ZNF224	0.0001238	1.751E-06
GPS1	0.0062428	1.752E-06
CZIB	0.0219544	1.757E-06
VMAC	0.0068621	1.783E-06
AGL	-0.0888336	1.783E-06
SARS	-0.0343564	1.81E-06
ORC3	-0.0006098	1.82E-06
MCRIP2	0.0669586	1.829E-06
CIAO2B	0.0779931	1.83E-06
LINS1	-0.0482315	1.837E-06
RAD23B	-0.0587333	1.849E-06
SUPT7L	0.0277179	1.88E-06
ATMIN	-0.0647341	1.893E-06
COX19	-0.0044901	1.897E-06
C6orf89	-0.0055481	1.904E-06
SURF6	-0.0787368	1.905E-06

COMMD1	-0.0443502	1.906E-06
KMT2C	-0.1051714	1.912E-06
SLC6A6	-0.1300918	1.932E-06
EDEM1	-0.0540873	1.941E-06
COA3	0.0320635	1.949E-06
SENP5	-0.0473812	1.95E-06
HELB	-0.0972549	1.954E-06
SLC2A4RG	-0.0070181	1.954E-06
NDUFAB1	0.1026105	1.959E-06
GPR35	-0.1321029	1.995E-06
CLK3	-0.0529089	1.997E-06
CNIH1	-0.1018955	2.002E-06
NELFCD	-0.0412647	2.005E-06
LPXN	-0.1803372	2.007E-06
UGP2	0.1404367	2.013E-06
YIF1A	0.0768526	2.059E-06
LRRC59	0.0559709	2.075E-06
LRRC28	-0.0346449	2.078E-06
MYLPF	-0.1435587	2.085E-06
LRRC47	-0.0286127	2.109E-06
TRAK2	0.1389893	2.119E-06
CDC26	0.0636686	2.123E-06
MRPL28	0.0119907	2.126E-06
DCAF6	-0.0187605	2.136E-06
LZTS2	0.0305343	2.138E-06
SF3B3	0.0157445	2.14E-06
ADPRHL2	0.0058727	2.147E-06
TXNDC9	0.0331377	2.158E-06
HSP90AA1	0.2434898	2.161E-06
SNX15	-0.0536909	2.193E-06
TRIM65	-0.0222889	2.196E-06
EMID1	-0.0232602	2.198E-06
ESYT2	-0.0141028	2.216E-06
RNF141	0.0175779	2.245E-06
ABCA7	-0.0265613	2.264E-06
PTPN1	0.1009642	2.284E-06
TAF4	-0.0041007	2.295E-06
NMD3	0.0032277	2.317E-06
CSKMT	-0.1525926	2.32E-06
CLEC2D	-0.0686343	2.325E-06
NUP54	-0.0031998	2.339E-06
PTOV1	-0.0363212	2.365E-06
DELE1	-0.0510734	2.395E-06
PGRMC1	0.0018199	2.404E-06
CPSF3	-0.0092007	2.408E-06
ALOX12-AS	-0.053929	2.416E-06
LEMD3	0.0184587	2.436E-06
PPP1R12B	-0.0938919	2.438E-06
TIMM44	-0.0157767	2.442E-06
PARP10	-0.0308275	2.449E-06

RNF10	-0.1193101	2.455E-06
CTSB	-0.1197079	2.458E-06
LYPLA2	0.0214719	2.47E-06
CDC123	0.0289083	2.497E-06
HSD17B4	-0.2252442	2.504E-06
MRPS16	0.0966913	2.511E-06
PECAM1	-0.0348874	2.525E-06
CYTOR	0.235999	2.532E-06
PIP4P2	0.1189306	2.544E-06
WDSUB1	-0.0868613	2.546E-06
DENND5A	-0.052395	2.55E-06
KIAA2013	-0.0331998	2.567E-06
SMN2	-0.0346699	2.568E-06
ZSCAN18	0.016478	2.603E-06
PSMG1	0.0622639	2.612E-06
USP7	-0.0019714	2.623E-06
TMEM273	0.1383998	2.641E-06
AL161457.2	-0.0537224	2.643E-06
PLEKHM1	0.0091864	2.643E-06
HTT	-0.1302892	2.645E-06
RAB11B	-0.0606378	2.645E-06
GIT1	-0.0167954	2.649E-06
MRPL41	0.0899598	2.656E-06
TYMS	0.258484	2.657E-06
PPP1R9B	-0.0230007	2.663E-06
TCTN3	-0.0183734	2.666E-06
MPPE1	-0.0949514	2.673E-06
NAAA	0.0949926	2.674E-06
VPS37A	-0.0584236	2.678E-06
SNHG29	-0.1854293	2.682E-06
RIDA	0.016417	2.703E-06
PTBP1	-0.0750909	2.714E-06
SLC66A3	-0.0024719	2.719E-06
AAK1	-0.2109717	2.74E-06
ANKRD40	-0.0044118	2.778E-06
BABAM2	0.0106822	2.813E-06
N4BP2L2	-0.1971864	2.815E-06
NLRP2	0.0080272	2.875E-06
STIM2	-0.0169856	2.881E-06
MICU1	0.0019067	2.882E-06
CREBBP	-0.0279425	2.888E-06
PPIL3	-0.0094776	2.893E-06
AZI2	-0.0985825	2.9E-06
MED13L	-0.22078	2.922E-06
ABI1	-0.0665535	3.009E-06
EFCAB2	0.0794612	3.009E-06
AC003681.1	-0.0549486	3.014E-06
NCALD	-0.0366504	3.034E-06
RNF181	-0.0073221	3.055E-06
NUDCD2	-0.0098249	3.071E-06

RNF11	-0.0425624	3.086E-06
PIGF	0.0437193	3.094E-06
SLC25A33	-0.0134615	3.096E-06
C11orf98	-0.0442506	3.098E-06
PRR7	0.0751249	3.1E-06
SOAT1	-0.1138868	3.114E-06
TMEM107	0.1520079	3.158E-06
MSRB1	0.0252324	3.179E-06
TCEA2	0.1177982	3.225E-06
NUMB	-0.0510907	3.237E-06
STAT6	-0.1016649	3.249E-06
TRIAP1	0.0322641	3.277E-06
MMP24OS	-0.0954163	3.303E-06
AGK	-0.0235666	3.311E-06
PNPLA4	0.0295554	3.326E-06
KCNMB3	-0.0348864	3.339E-06
PACS1	-0.0256688	3.344E-06
GALNT1	-0.1357016	3.353E-06
POLDIP2	0.0062671	3.354E-06
EFTUD2	-0.0052525	3.375E-06
NOM1	-0.0110719	3.376E-06
ZNF888	-0.029689	3.396E-06
EIF4E2	-0.0127009	3.413E-06
SLC25A43	-0.0115788	3.425E-06
TMEM80	-0.0184835	3.45E-06
GRAMD4	-0.1022268	3.451E-06
PIM2	0.1556415	3.464E-06
DNAJA2	-0.0495247	3.486E-06
ZNF587	-0.0657612	3.487E-06
RAB9A	-0.1638212	3.49E-06
NIPSNAP3A	-0.092457	3.491E-06
LAPTM4A	-0.1176945	3.492E-06
ZNF514	-0.0107656	3.507E-06
BSPRY	0.1634455	3.511E-06
NSUN2	0.0038535	3.52E-06
DMAC1	0.0672911	3.564E-06
DLD	-0.0129247	3.574E-06
PYCARD	0.2032047	3.612E-06
EDC4	-0.0079807	3.621E-06
FUOM	0.1086322	3.622E-06
PSMD12	0.0241078	3.641E-06
HSD17B7	-0.072162	3.647E-06
DNAJC24	-0.068465	3.652E-06
GET3	0.0151238	3.673E-06
RPS24	-0.123491	3.673E-06
OPA3	-0.0203796	3.739E-06
CCDC66	-0.0493814	3.745E-06
TIMM17A	0.012865	3.803E-06
ACADVL	0.0447367	3.811E-06
ZDHHC21	-0.108711	3.839E-06

POGZ	-0.079364	3.845E-06
NAA25	-0.0002828	3.846E-06
HK2	-0.0410923	3.85E-06
HIST1H4E	-0.0634502	3.873E-06
PHYKPL	0.0534679	3.908E-06
MAP4K3	-0.0039655	3.946E-06
PXMP2	0.0337002	3.958E-06
HOXA7	0.0555426	3.959E-06
POLD4	-0.1005328	3.963E-06
C1orf50	0.0138989	3.974E-06
MLLT1	-0.1385426	3.988E-06
DIP2A	-0.0049714	4.002E-06
RILP	0.0772639	4.033E-06
AC005261.1	-0.0986034	4.056E-06
ZNF350	-0.0345077	4.062E-06
YTHDF1	-0.0287838	4.086E-06
WDR36	-0.0179801	4.095E-06
TSEN34	0.1489107	4.106E-06
DGKD	0.0904243	4.109E-06
GPN3	0.129248	4.11E-06
CCDC28A	-0.0580265	4.147E-06
TXNDC17	0.1045905	4.182E-06
RANBP6	-0.026369	4.194E-06
FAM149B1	-0.0027638	4.198E-06
TTC7A	-0.0425218	4.207E-06
CCNDBP1	-0.084455	4.213E-06
CDK13	-0.1311079	4.219E-06
GCA	0.0347851	4.219E-06
POM121	-0.0538497	4.23E-06
DENND10	0.0188968	4.24E-06
MBD4	-0.1598399	4.27E-06
RFX8	-0.0654928	4.285E-06
UAP1	0.0010554	4.305E-06
FBXO28	-0.0116669	4.308E-06
ZCCHC17	0.0470448	4.309E-06
FAM216A	0.1251488	4.323E-06
ZZEF1	-0.0500161	4.336E-06
MCUR1	-0.0231824	4.355E-06
DDIT3	-0.0857645	4.379E-06
TRA2A	-0.1498125	4.388E-06
SLC35F5	-0.0935822	4.4E-06
NAA30	-0.0224299	4.416E-06
NFX1	0.0523753	4.438E-06
SLC30A5	-0.0287637	4.439E-06
BANF1	0.1261672	4.441E-06
RBM10	0.0134883	4.448E-06
ZNF124	-0.0439815	4.455E-06
LCMT1	0.0046702	4.463E-06
SPN	-0.239577	4.471E-06
C11orf71	-0.0124625	4.498E-06

TBRG4	0.0451677	4.517E-06
ATF2	-0.0539593	4.529E-06
NFKBIZ	0.2084673	4.538E-06
ITFG2	-0.0358033	4.541E-06
NDUFB10	0.1200207	4.545E-06
PSMD9	0.0470574	4.598E-06
AGO2	0.0059896	4.632E-06
SPIN4	-0.1819046	4.633E-06
C6orf62	-0.1774941	4.646E-06
MON1B	-0.0557105	4.664E-06
NRAS	-0.0486732	4.714E-06
GRAMD1A	0.0851441	4.759E-06
MSL2	-0.0743542	4.795E-06
AC011043.1	-0.0537894	4.801E-06
ANKRD10-IT	-0.1047874	4.804E-06
NFATC3	-0.0468186	4.829E-06
SGO2	-0.0892805	4.844E-06
TRAPPC2	-0.0356588	4.845E-06
DDX49	0.0460061	4.852E-06
COA4	0.1165758	4.885E-06
FLYWCH2	0.0377729	4.903E-06
TOMM40	0.0838993	4.917E-06
MCOLN1	0.0226481	4.943E-06
PCLAF	0.3799391	4.943E-06
GCLC	-0.0841634	4.993E-06
INAFM2	-0.0631877	5.01E-06
PARP14	0.12386	5.019E-06
TSR1	0.0668182	5.096E-06
PTGES2	0.021083	5.103E-06
ARL5B	0.0090533	5.158E-06
TNFRSF25	0.0977109	5.161E-06
FAM111A	-0.0660031	5.17E-06
GTF2H3	0.0156926	5.268E-06
TSG101	-0.0280989	5.306E-06
CNOT1	-0.0722335	5.324E-06
PRKCH	0.0942805	5.369E-06
ZNF506	-0.130563	5.374E-06
DPH7	0.0032432	5.376E-06
ZKSCAN8	-0.0564488	5.406E-06
BRMS1	-0.0283736	5.442E-06
DNMT1	-0.0206111	5.458E-06
MRPS18B	0.0574813	5.476E-06
PPP2R2D	-0.0085818	5.494E-06
FGFRL1	-0.0911354	5.552E-06
ZNF875	-0.0269941	5.555E-06
RBPMS	0.143091	5.581E-06
C9orf78	-0.0887089	5.585E-06
EIF3B	0.0735835	5.598E-06
VPS53	-0.0398702	5.614E-06
VPS8	-0.0265033	5.631E-06

SRP9	-0.1065078	5.659E-06
NUP160	-0.0598849	5.668E-06
CD37	0.2179339	5.695E-06
C15orf61	0.0361496	5.723E-06
AL450998.2	-0.0332994	5.724E-06
RUFY3	0.0259096	5.77E-06
TSSC4	0.0588246	5.771E-06
FOXO3	0.0415236	5.811E-06
SPAG9	0.0172211	5.821E-06
HIST1H3D	0.0292217	5.829E-06
SNHG7	-0.2779194	5.845E-06
FCER1G	0.182643	5.853E-06
UNC119	0.0026775	5.887E-06
UNG	0.0861025	5.974E-06
AC093673.1	0.0128773	6.005E-06
DDX41	-0.02663	6.019E-06
ADI1	-0.1651105	6.061E-06
AKT1	0.0678473	6.075E-06
NUDT4	-0.1036887	6.106E-06
KRT8	0.0134751	6.108E-06
MRPL40	0.0901243	6.109E-06
ATAD1	-0.0330499	6.183E-06
LINC01268	-0.187155	6.184E-06
ITPR2	-0.1164934	6.252E-06
GUSB	0.0677081	6.269E-06
SUN2	-0.1124602	6.295E-06
TMEM251	-0.0550387	6.38E-06
QKI	-0.1787863	6.384E-06
TMEM203	0.0047613	6.39E-06
USP33	-0.1015957	6.407E-06
WDR81	-0.047645	6.418E-06
MRPS11	-0.0140586	6.482E-06
TTL	-0.045662	6.499E-06
AAMP	0.0004353	6.503E-06
LYST	-0.2583423	6.518E-06
PARG	-0.0014154	6.544E-06
FOXK1	-0.0510137	6.587E-06
NUP210	-0.0050271	6.626E-06
ATP13A3	-0.0844968	6.661E-06
NPDC1	0.1722362	6.688E-06
GNL3L	-0.0596781	6.695E-06
TM9SF4	0.0015383	6.716E-06
NSMCE1	0.1018941	6.797E-06
UNC50	-0.0037131	6.851E-06
TMEM242	-0.0240672	6.858E-06
SLC35A3	-0.1052819	6.892E-06
SUCLG1	0.1328917	6.938E-06
HBP1	-0.0762021	6.952E-06
RNF126	0.0280986	6.978E-06
PTPRE	0.2622934	6.979E-06



FOPNL	-0.0546663	6.987E-06
PAIP1	-0.0805053	6.988E-06
RAN	0.2123656	6.993E-06
RAB3GAP1	-0.0076073	7.004E-06
LEO1	0.0079011	7.032E-06
BRI3BP	-0.1077481	7.042E-06
B3GAT3	0.0183392	7.071E-06
SREBF2	-0.0994245	7.1E-06
GLRX3	-0.0252884	7.103E-06
FMC1	-0.1063079	7.104E-06
MGME1	0.0565719	7.113E-06
FAH	-0.0279696	7.114E-06
PPM1G	0.0910322	7.145E-06
DMXL1	-0.0499565	7.147E-06
APRT	0.1978284	7.156E-06
VPS26A	0.0042381	7.178E-06
NPIPA1	-0.060713	7.215E-06
VSIG10	0.0748959	7.239E-06
HDAC7	0.068123	7.239E-06
TIMM50	0.0061268	7.24E-06
OXA1L	0.0107375	7.264E-06
STK25	0.0170522	7.265E-06
FEN1	0.0647962	7.283E-06
ANXA6	0.1226892	7.307E-06
YKT6	-0.0380004	7.312E-06
DUS1L	0.0554488	7.335E-06
RB1	-0.0866556	7.338E-06
WIZ	-0.0040672	7.347E-06
ZNF548	-0.0251978	7.372E-06
OXLD1	0.0908205	7.399E-06
DPM3	-0.1320327	7.434E-06
MEA1	0.0152878	7.443E-06
CDS2	0.0159591	7.458E-06
DNAJC5	-0.0215728	7.516E-06
ELAC2	0.0127683	7.522E-06
GLG1	0.0039262	7.59E-06
MRNIP	0.0293867	7.615E-06
ARHGAP27	0.0956193	7.623E-06
TUBGCP5	-0.007175	7.628E-06
CDADC1	-0.0746882	7.63E-06
ETV3	-0.0479207	7.636E-06
FUNDC2	0.0048979	7.639E-06
CASC4	0.0167181	7.702E-06
HAT1	0.0432939	7.716E-06
DHRS7B	0.0878311	7.747E-06
STRN	-0.0193987	7.762E-06
TMEM161B	-0.046912	7.771E-06
HGS	-0.0168457	7.771E-06
JAK3	0.126658	7.889E-06
ZFHX2-AS1	-0.0200927	7.894E-06

ARHGEF9	0.0071018	7.949E-06
YPEL3	-0.1421422	8.003E-06
KRR1	-0.0567296	8.014E-06
MYNN	-0.0162856	8.014E-06
ZSCAN29	-0.0111759	8.023E-06
TMEM150A	-0.0279258	8.055E-06
KPNA2	0.0282091	8.071E-06
GTF2IRD2	-0.0959673	8.175E-06
ALYREF	-0.0222793	8.182E-06
GSDMD	0.082732	8.184E-06
PJA2	-0.0597372	8.202E-06
PPP4R2	-0.0514086	8.218E-06
CYB561D2	0.0433079	8.304E-06
TPP1	0.0827257	8.348E-06
SNAPC3	-0.0610942	8.395E-06
TVP23B	-0.0484301	8.4E-06
NQO2	-0.0403423	8.427E-06
IQGAP2	0.2227184	8.43E-06
PDXDC1	-0.0800021	8.43E-06
MSRA	0.0119801	8.468E-06
DRAM2	0.0363471	8.49E-06
RIC8A	-0.0091554	8.528E-06
NFATC2IP	-0.0353663	8.543E-06
WBP1	-0.0085099	8.586E-06
PSMB5	0.1262196	8.598E-06
UBA2	-0.0009649	8.61E-06
PAPSS1	-0.0311228	8.632E-06
NSD2	-0.0058143	8.641E-06
MORC3	-0.0631	8.648E-06
RRAGC	-0.0314202	8.719E-06
TNFSF13B	0.2222942	8.73E-06
ZC3H8	-0.0617814	8.819E-06
AARSD1	0.0313997	8.845E-06
LMBRD1	-0.0547722	8.899E-06
CDK11A	-0.0754157	8.9E-06
SMARCA4	-0.0454023	8.908E-06
SMCR8	-0.055745	8.918E-06
CNOT8	-0.09055	8.928E-06
RAB18	-0.0247209	8.93E-06
TOX4	0.0268758	8.975E-06
TEX10	-0.052411	9.051E-06
TRAPPC8	-0.0008956	9.063E-06
RARS2	-0.0163858	9.091E-06
TBC1D2B	0.0931695	9.112E-06
PIGN	-0.0453498	9.23E-06
ALG6	-0.0029073	9.238E-06
P4HTM	0.0860832	9.247E-06
SNHG20	-0.0844675	9.291E-06
ZNF410	-0.0104003	9.297E-06
NOL12	0.0281311	9.36E-06

UBALD1	-0.0192732	9.447E-06
TMEM216	-0.0353089	9.453E-06
RNF19A	-0.0112956	9.485E-06
HTRA2	0.0290376	9.522E-06
STXBP2	-0.0683284	9.576E-06
EEF1AKNM1	-0.0463843	9.582E-06
FAM32A	-0.0400986	9.585E-06
ZDHHC5	-0.0536707	9.594E-06
SNX27	-0.070861	9.596E-06
POP5	0.0149002	9.647E-06
SETD1B	-0.0337527	9.654E-06
PGP	0.0058328	9.686E-06
NR2C2	-0.0481944	9.695E-06
TMEM69	0.0120708	9.76E-06
LHFPL2	-0.0021268	9.765E-06
GSK3A	-0.0358753	9.777E-06
KIDINS220	-0.0496945	9.779E-06
SPDYE3	-0.0435028	9.826E-06
PAM16	0.0561985	9.892E-06
KPNA4	-0.0669479	9.918E-06
ORC2	-0.0324233	1E-05
KAT6B	-0.2232963	1.001E-05
ZNF768	-0.0332445	1.009E-05
ARHGEF1	-0.0143968	1.011E-05
GTF2H2C	-0.0795385	1.022E-05
TXLNG	0.0419961	1.025E-05
HDHD3	0.0105781	1.027E-05
VTI1B	0.0342022	1.031E-05
RBM5	-0.0887045	1.032E-05
MDM4	-0.1115511	1.034E-05
DAZAP2	-0.1538843	1.037E-05
AP2S1	0.0805524	1.039E-05
RAB3GAP2	-0.051321	1.039E-05
PACSIN2	-0.1020473	1.044E-05
PRH1	-0.0455865	1.049E-05
WDR41	0.0032255	1.049E-05
ZNF146	-0.0005543	1.058E-05
RFX7	-0.0067234	1.068E-05
AC007038.2	-0.0552113	1.069E-05
SKIDA1	-0.0361506	1.072E-05
MYO1F	-0.127764	1.073E-05
METTL3	-0.0265749	1.074E-05
AC092683.1	-0.1214874	1.075E-05
TOM1	-0.0779688	1.082E-05
NDUFA6	0.0112967	1.086E-05
MAN1B1	0.0168349	1.099E-05
TRIM33	-0.0848853	1.109E-05
AC073957.3	-0.0454496	1.12E-05
PITPNA	0.0001644	1.12E-05
SUMF1	-0.0025632	1.136E-05

HIPK2	-0.121007	1.142E-05
THAP5	-0.0916076	1.143E-05
COG2	-0.0424731	1.145E-05
VPS72	-0.0279508	1.171E-05
AC004854.2	0.0884625	1.172E-05
AP002449.1	-0.0391204	1.174E-05
ARL17A	-0.0791791	1.176E-05
CRKL	0.0134841	1.178E-05
GSAP	-0.0413188	1.188E-05
NISCH	-0.069088	1.192E-05
ILK	0.0366417	1.198E-05
ZER1	0.0444467	1.202E-05
INPP5B	-0.023475	1.204E-05
ZDHHC7	-0.0350292	1.205E-05
NFYB	-0.0270272	1.205E-05
UROD	0.0595061	1.207E-05
GEMIN7	-0.020515	1.218E-05
MPV17L2	-0.0173391	1.219E-05
CUTC	-0.010721	1.223E-05
TIMM17B	0.0112948	1.224E-05
ORC4	-0.0491952	1.228E-05
ITCH	-0.0503133	1.231E-05
TMEM127	0.0001879	1.236E-05
CDK10	-0.0056783	1.238E-05
OGFOD3	0.0144125	1.24E-05
SFT2D2	-0.0813647	1.242E-05
FAM228B	-0.0716407	1.245E-05
DENND1A	-0.0254707	1.246E-05
LINC01500	-0.0325012	1.247E-05
KDEL2	0.0515207	1.259E-05
UPK3BL1	-0.0382426	1.275E-05
GLO1	-0.0428727	1.278E-05
COX14	0.1123475	1.281E-05
VIM	0.2711449	1.286E-05
MNAT1	-0.0045546	1.286E-05
P3H1	-0.0197351	1.304E-05
WDR75	-0.0188803	1.305E-05
STX18	-0.0439022	1.315E-05
PSMD1	0.0252995	1.316E-05
NDUFS3	0.109627	1.318E-05
SPNS3	0.1234885	1.32E-05
CXCL2	0.1476885	1.329E-05
HERC1	-0.0924796	1.332E-05
INSR	-0.0684907	1.334E-05
ZNF529	-0.0437715	1.338E-05
CUEDC2	0.0879967	1.352E-05
RPL7L1	-0.0653218	1.353E-05
EIF4EBP2	-0.1105766	1.364E-05
TBC1D8	-0.058254	1.366E-05
CD2BP2	0.0661147	1.368E-05

ADAMTSL4	0.1401639	1.372E-05
N4BP2L1	-0.0405807	1.381E-05
SLC38A2	-0.125489	1.382E-05
COMMD4	0.0525016	1.392E-05
PAPOLG	-0.0486721	1.396E-05
ASTE1	0.020078	1.405E-05
HSPA9	0.1017024	1.413E-05
STOM	0.1891228	1.414E-05
ADSL	0.055731	1.427E-05
RALB	0.0873847	1.432E-05
C15orf39	0.1138624	1.437E-05
NPEPPS	-0.1618309	1.438E-05
OARD1	0.0107351	1.439E-05
ALAS1	-0.0706446	1.448E-05
FAM98B	-0.0152849	1.462E-05
PTPN11	0.0352717	1.464E-05
NLK	-0.1025609	1.47E-05
MAP3K12	-0.0356884	1.477E-05
YLPM1	-0.0195925	1.496E-05
RAB5B	-0.0659825	1.501E-05
TRIM8	-0.1014618	1.504E-05
PDIA4	-0.0443823	1.512E-05
ZBED5	-0.0159822	1.515E-05
FAM214A	-0.0697625	1.517E-05
CD81	0.1538013	1.519E-05
HIST2H2AC	-0.0981501	1.519E-05
RELB	-0.0502527	1.519E-05
NARS	-0.1313854	1.523E-05
QPRT	-0.3147916	1.525E-05
PRPF4B	-0.1566816	1.533E-05
ZBED4	-0.1248226	1.539E-05
SCAF4	-0.016345	1.541E-05
Z97192.3	-0.1105598	1.546E-05
AC108488.3	-0.0354016	1.549E-05
AATF	0.0660665	1.554E-05
VAMP7	-0.0444043	1.564E-05
ATG10	-0.012109	1.576E-05
PLAA	-0.0364247	1.577E-05
GGA3	-0.0378035	1.58E-05
CENPB	0.0605317	1.585E-05
HUWE1	-0.030106	1.595E-05
RAB3D	-0.07364	1.605E-05
MAP3K11	0.066254	1.606E-05
HLA-A	0.3201895	1.611E-05
VPS18	-0.0038196	1.615E-05
GRN	-0.2572113	1.62E-05
SLC46A3	-0.0142376	1.623E-05
BBS2	-0.0167686	1.624E-05
SMNDC1	-0.085143	1.63E-05
PLEKHM2	-0.0397886	1.633E-05

CD180	0.1304461	1.638E-05
RFX5	-0.0599091	1.638E-05
ARHGDI1	-0.0058357	1.656E-05
HENMT1	-0.0836233	1.669E-05
BAG4	-0.0920934	1.677E-05
SLF2	-0.0616564	1.678E-05
SLC25A11	0.0916814	1.679E-05
HIP1	0.1235365	1.68E-05
LINC01003	-0.0052712	1.69E-05
ZNF43	-0.0511775	1.694E-05
TET3	-0.041672	1.697E-05
FBXO9	-0.0548174	1.7E-05
RANBP9	-0.0613773	1.705E-05
HLA-E	0.2776269	1.709E-05
ZNF594	-0.0013867	1.712E-05
ZNF12	0.0068786	1.718E-05
CAND1	-0.0387993	1.725E-05
PREB	0.0002257	1.733E-05
CDC34	0.0090483	1.744E-05
DPP3	-0.008679	1.745E-05
SRI	0.1747759	1.752E-05
IMMP1L	-0.0216005	1.757E-05
ERMAP	-0.0494647	1.765E-05
LRCH4	0.0397479	1.781E-05
UBE2G1	-0.0327895	1.784E-05
UQCRC1	0.004741	1.785E-05
TRPM2	-0.0586555	1.803E-05
COX16	-0.089486	1.813E-05
POLR3K	0.0303904	1.832E-05
ST3GAL2	-0.0555131	1.835E-05
CDCA7	0.1431717	1.84E-05
UBE2L6	0.0475921	1.845E-05
SNX29	-0.0240201	1.846E-05
SF3A2	-0.0627126	1.852E-05
ECI2	0.0884137	1.879E-05
DUSP23	0.0612063	1.88E-05
PDHX	0.0011227	1.886E-05
PPFIBP1	-0.0309193	1.893E-05
SPIN2B	-0.0291735	1.902E-05
GANAB	-0.053626	1.906E-05
TCERG1	-0.078919	1.911E-05
ZMIZ2	-0.0380635	1.917E-05
SRP54	0.0149758	1.924E-05
MFAP1	0.0741043	1.928E-05
CDC37	0.0721464	1.948E-05
DCTD	0.0080284	1.955E-05
WRN	-0.0127235	1.96E-05
EXOSC10	-0.0165986	1.963E-05
NOB1	-0.0033854	1.965E-05
STX7	-0.19958	1.983E-05

HEIH	0.0225548	1.994E-05
STAM2	-0.0337664	2.005E-05
WDR12	-0.0379533	2.01E-05
AKIRIN1	-0.032864	2.011E-05
ITGAX	0.0744408	2.022E-05
SOD2	0.0624761	2.027E-05
AIP	0.0882244	2.03E-05
RAB11A	0.0068703	2.03E-05
VMP1	0.0360597	2.04E-05
GABPA	-0.078285	2.04E-05
SLCO3A1	-0.1182969	2.049E-05
PGAM5	-0.0351745	2.057E-05
RELT	0.0846568	2.058E-05
AL135925.1	-0.0117076	2.07E-05
SP110	0.0945876	2.073E-05
ZNF273	-0.001251	2.074E-05
MTHFD1L	-0.0306407	2.077E-05
MGAT4B	0.0919413	2.086E-05
PDCL3	-0.0285481	2.093E-05
MITD1	-0.1038034	2.094E-05
SNRPB	0.1263214	2.094E-05
TSEN15	-0.0387203	2.095E-05
CDC27	-0.0289801	2.097E-05
PPP1CC	0.0271383	2.105E-05
RABEP1	0.0183404	2.111E-05
RCC1	-0.0263382	2.113E-05
STK38L	-0.1070822	2.119E-05
SUMO3	-0.1276098	2.13E-05
RBPJ	-0.1062358	2.137E-05
EVI5	-0.095087	2.138E-05
CRLF3	-0.0516175	2.141E-05
PTRH2	0.0579253	2.144E-05
TMEM68	-0.0026024	2.147E-05
UBAC2	0.0210164	2.147E-05
TRADD	0.0240901	2.16E-05
ST3GAL4	0.0078798	2.16E-05
PIGC	-0.0704161	2.175E-05
ZMYM3	-0.030869	2.182E-05
RNF4	-0.0039653	2.214E-05
SF3A3	0.0509668	2.225E-05
NPR3	0.1705842	2.233E-05
PPP2R2A	0.0445778	2.255E-05
UPF1	-0.0153085	2.257E-05
TMEM42	0.0049499	2.269E-05
AC004847.1	-0.0391901	2.271E-05
KIAA0100	-0.042751	2.276E-05
ENO1	-0.1436052	2.291E-05
THAP4	0.0097492	2.298E-05
FADS2	-0.0231228	2.305E-05
PPP2R1A	-0.0273011	2.328E-05

ZNF134	-0.0128873	2.338E-05
SAT2	0.0757135	2.354E-05
GPT2	-0.0072737	2.357E-05
RASSF2	-0.0913885	2.372E-05
NELFE	0.0244367	2.373E-05
ECI1	0.0807546	2.378E-05
STK11	0.0099766	2.393E-05
GSTZ1	0.084146	2.402E-05
HPCAL1	0.1030757	2.405E-05
SMIM20	0.0218038	2.406E-05
RNPS1	-0.0916726	2.41E-05
BRIX1	0.0354	2.418E-05
ROMO1	-0.164131	2.432E-05
ATP9B	-0.03829	2.437E-05
ALG11	-0.0472218	2.441E-05
MTHFD2L	-0.1226958	2.446E-05
RHOQ	0.0144947	2.45E-05
SMIM29	0.0410975	2.459E-05
AC080038.1	-0.0474444	2.47E-05
NUDCD1	0.0634472	2.478E-05
SELENOT	-0.003862	2.492E-05
ANAPC4	-0.0329184	2.502E-05
PIBF1	-0.0428671	2.525E-05
GSE1	-0.196707	2.527E-05
DENND4A	-0.0404532	2.534E-05
KLHDC1	-0.0212581	2.567E-05
SLC66A2	0.0270875	2.573E-05
TBC1D17	-0.0562363	2.575E-05
MAP2K5	-0.0065612	2.575E-05
NSUN6	-0.0404281	2.584E-05
KDM6B	-0.0340253	2.59E-05
ZC3H11A	-0.0392031	2.598E-05
ZBTB26	-0.0074519	2.607E-05
NUP107	-0.0475766	2.61E-05
ZNFX1	-0.0062864	2.61E-05
NAE1	0.0515329	2.616E-05
AC096667.1	-0.1543421	2.623E-05
SEH1L	-0.0596979	2.624E-05
BCAS2	0.0281298	2.627E-05
TTN	-0.0424661	2.628E-05
SPOP	0.0588747	2.642E-05
FAM160B2	-0.0122922	2.645E-05
CDT1	0.1234392	2.649E-05
RRAGB	0.0505073	2.656E-05
ARMCX3	0.158048	2.661E-05
PDE7A	0.0866681	2.695E-05
FBXO42	-0.0170337	2.699E-05
KIAA1143	-0.1020611	2.703E-05
BRF2	-0.0039616	2.715E-05
C1RL	0.0212621	2.716E-05



KLHDC8B	0.0785979	2.719E-05
LAGE3	0.0689352	2.72E-05
PDIA6	0.1245518	2.722E-05
SLC9A3-AS'	-0.0362062	2.74E-05
TMEM63A	0.1058693	2.749E-05
KAT5	-0.0146277	2.756E-05
MPC1	-0.1106519	2.761E-05
UBQLN4	-0.0312776	2.779E-05
TMEM106A	-0.035263	2.786E-05
TRAPPC10	-0.104294	2.795E-05
PDK2	0.0045722	2.795E-05
PRPF38A	-0.027624	2.798E-05
HIST1H2BC	0.013775	2.799E-05
EAF2	0.1693567	2.806E-05
FPGS	0.0232704	2.808E-05
H2AFZ	0.3125859	2.808E-05
SLC30A9	-0.0891204	2.821E-05
KCNN4	0.0235268	2.821E-05
DRG1	-0.0058558	2.824E-05
CREB3L2	-0.0987812	2.833E-05
NUP85	-0.0457302	2.842E-05
PRR12	-0.0544716	2.846E-05
MATK	0.114769	2.848E-05
COQ7	0.0723028	2.849E-05
SLC33A1	-0.0936374	2.85E-05
CUL1	-0.0056051	2.851E-05
HECTD4	-0.0616249	2.861E-05
COG5	-0.0161001	2.864E-05
CREG1	-0.1758699	2.871E-05
MSL1	-0.0335363	2.873E-05
MPDU1	-0.017636	2.881E-05
CTDSP1	-0.0338317	2.884E-05
RNF44	-0.1228697	2.895E-05
EIF2AK1	-0.1106465	2.898E-05
BCR	0.033698	2.902E-05
DTD1	0.0792578	2.905E-05
NUP205	-0.0093909	2.912E-05
AC022098.1	-0.0263084	2.916E-05
SNHG15	-0.0910156	2.925E-05
EMG1	0.0789102	2.942E-05
CHCHD1	0.1023555	2.951E-05
ACTR8	-0.0237363	2.956E-05
FKBP7	-0.0053762	2.978E-05
IRAK1	-0.055582	2.993E-05
MARCH5	-0.0700331	2.997E-05
GIMAP2	-0.004261	2.999E-05
ZNF780A	0.0178232	3.011E-05
LAMTOR2	0.1149319	3.033E-05
VPS33A	-0.0415629	3.038E-05
HEATR5B	-0.0825482	3.059E-05

INTS14	0.0083225	3.079E-05
CRYZ	0.0071814	3.08E-05
MBD2	0.0738259	3.098E-05
IER3IP1	0.0397029	3.102E-05
ZNF33B	-0.054265	3.11E-05
TMEM165	-0.0797715	3.122E-05
RHPN1	-0.0182572	3.124E-05
SENP7	-0.0669425	3.126E-05
PAFAH1B2	-0.0152886	3.128E-05
FAM118A	-0.0595732	3.13E-05
TMEM160	0.1369708	3.133E-05
SEC22C	-0.0081698	3.135E-05
RALA	0.1299853	3.139E-05
SPG21	-0.0269819	3.153E-05
PNPT1	-0.0772519	3.155E-05
MTPAP	-0.0337923	3.177E-05
LPCAT1	-0.0272835	3.184E-05
TRAPPC2L	0.0774417	3.203E-05
TCF3	-0.0206223	3.235E-05
UBR1	-0.0461623	3.238E-05
PPIP5K1	-0.0415067	3.24E-05
TRMT61B	0.0242166	3.249E-05
HIF1AN	-0.0220589	3.253E-05
INPP4A	-0.0173396	3.259E-05
PIM3	0.0496186	3.279E-05
ST3GAL1	0.1168087	3.288E-05
BRD8	-0.0660135	3.299E-05
C1orf109	-0.0372856	3.341E-05
ACACA	-0.0138506	3.342E-05
C1D	-0.0335956	3.348E-05
DCLRE1C	-0.0792895	3.363E-05
AC022087.1	-0.031236	3.368E-05
DCAF16	-0.0876898	3.382E-05
RC3H1	-0.13178	3.388E-05
SLAIN2	-0.0078461	3.392E-05
DCUN1D3	0.1065301	3.397E-05
GLMN	-0.0619994	3.47E-05
SSH1	-0.0702076	3.471E-05
CTDSP2	0.0200578	3.484E-05
LINC02245	-0.0226954	3.49E-05
CMC2	-0.0990701	3.499E-05
PLGLB2	-0.0386894	3.503E-05
ZBTB7A	-0.0488857	3.504E-05
ZDHHC20	-0.0759226	3.514E-05
ZNF814	-0.0683208	3.518E-05
ARIH2	-0.0356369	3.529E-05
TMC3-AS1	-0.0406672	3.537E-05
YWHAQ	0.0355163	3.542E-05
MYL6B	0.0713825	3.552E-05
ZNF566	-0.0618041	3.561E-05

CHMP1A	-0.0190334	3.577E-05
AC064805.2	-0.0332934	3.582E-05
RAB8A	0.135504	3.586E-05
TWF1	-0.0057543	3.636E-05
AKR7A2	0.1361289	3.649E-05
FKTN	-0.0236103	3.652E-05
GDAP2	-0.0157892	3.658E-05
ZNF830	-0.0681019	3.669E-05
PRR14	0.0007555	3.673E-05
MRPS14	-0.0023807	3.677E-05
SMIM27	-0.1724598	3.687E-05
TGFBR1	-0.0319258	3.698E-05
ZNF101	-0.0310964	3.709E-05
GMIP	-0.055148	3.716E-05
ACTR1B	0.0548506	3.743E-05
SLC25A37	-0.1393992	3.765E-05
PIK3C3	-0.1305453	3.77E-05
AC073389.1	0.0092066	3.773E-05
TEN1	-0.0157644	3.778E-05
IMPDH1	0.0589887	3.792E-05
FDPS	0.0513791	3.812E-05
CLEC2B	0.162526	3.828E-05
STMN3	0.0043481	3.839E-05
TNIP1	-0.0484583	3.855E-05
KMT2E	-0.1126426	3.856E-05
EIF4H	-0.0123168	3.862E-05
PTDSS1	-0.1183759	3.872E-05
MXD4	-0.065687	3.872E-05
ATP2A2	0.0536129	3.881E-05
GOLT1B	0.0072631	3.891E-05
ETFA	0.0020441	3.895E-05
PDK3	-0.0393756	3.917E-05
RBL2	-0.0918781	3.932E-05
METTL17	-0.0545477	3.94E-05
DICER1	-0.1472578	3.942E-05
BIN3	-0.0236853	3.961E-05
PRELID3B	-0.0266982	3.962E-05
PSMA7	0.1968221	3.977E-05
CRYZL1	-0.0108344	3.98E-05
SNHG5	-0.1852925	3.994E-05
TPRKB	-0.0445003	4.016E-05
NCL	0.2861048	4.037E-05
LYPLAL1	0.022954	4.05E-05
TNFRSF4	0.2771576	4.059E-05
SLC38A1	0.207949	4.109E-05
RUVBL2	0.0886728	4.111E-05
CBL	0.0541969	4.113E-05
VAMP3	-0.0269776	4.137E-05
AC092171.3	-0.0477332	4.148E-05
GNG10	0.159402	4.151E-05

BMS1	-0.0740166	4.151E-05
HDAC1	0.0366074	4.177E-05
SIRT7	-0.0365276	4.177E-05
RNF38	-0.060873	4.18E-05
STX16	0.1467483	4.223E-05
ZCCHC8	-0.0439171	4.239E-05
FBXO45	0.0824139	4.242E-05
EIF4E	-0.0326925	4.278E-05
NUP88	0.0051931	4.303E-05
ABL2	-0.0245407	4.315E-05
RFC5	-0.0084548	4.346E-05
HEATR1	-0.0219792	4.355E-05
NKD1	-0.0634486	4.382E-05
TLK2	-0.0762069	4.387E-05
BZW1	-0.0581727	4.391E-05
ZMYM4	0.0316229	4.395E-05
SRSF1	-0.0214597	4.4E-05
ZNF622	0.0535437	4.405E-05
TSC2	-0.0547933	4.423E-05
SWI5	0.0655524	4.423E-05
STK38	-0.0638457	4.436E-05
PSMC3	-0.0098016	4.447E-05
SLC35E3	-0.1476651	4.47E-05
LINC01278	-0.0387192	4.476E-05
NUTM2B-AS	-0.0897683	4.496E-05
NADSYN1	-0.0269199	4.521E-05
PAN3	-0.0852613	4.521E-05
DR1	-0.0005117	4.539E-05
FAM193B	-0.0062938	4.582E-05
BORCS5	-0.0293275	4.591E-05
PRKCQ	0.0151161	4.605E-05
PRICKLE1	0.0996976	4.621E-05
PDCD4	-0.2391228	4.643E-05
SEPTIN9	-0.0115475	4.672E-05
AP3S2	-0.0188092	4.672E-05
CREB1	-0.160115	4.712E-05
NFKB1	-0.0153971	4.714E-05
MRPS9	0.0253556	4.74E-05
XPO6	0.0228969	4.743E-05
MPP5	-0.0025114	4.766E-05
SLC17A9	0.0644132	4.79E-05
MTR	-0.0111704	4.798E-05
ARL8B	-0.129974	4.815E-05
PLEKHF1	-0.0400835	4.816E-05
DNAJB4	-0.0085295	4.87E-05
SIK3	-0.0301217	4.877E-05
PHKG2	-0.041825	4.884E-05
SCAP	-0.0058366	4.91E-05
IPO8	-0.0855525	4.915E-05
EBAG9	0.0492538	4.928E-05

LRMP	0.0416549	4.934E-05
SCAMP1-AS	0.0053103	4.973E-05
USP10	0.0597797	4.978E-05
SAP30L	-0.0029605	4.983E-05
ATE1	-0.0530094	5.024E-05
CHIC2	0.0027054	5.037E-05
C19orf18	-0.01384	5.046E-05
CCDC22	0.0305124	5.047E-05
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ZNF160	0.003801	5.075E-05
R3HCC1	0.0463937	5.099E-05
ALDH5A1	0.0685699	5.104E-05
SDHAF1	-0.0264721	5.109E-05
HSPB11	0.0303838	5.13E-05
AP1B1	-0.0061255	5.134E-05
SFSWAP	-0.0030253	5.137E-05
CEBPZOS	-0.0443941	5.146E-05
HOXA10	-0.1188737	5.158E-05
SPOPL	-0.052092	5.159E-05
TBKBP1	-0.0087963	5.176E-05
KTI12	-0.0164703	5.183E-05
WARS	-0.0088033	5.189E-05
CNOT9	-0.060723	5.201E-05
RIN3	-0.0982223	5.208E-05
GTPBP2	-0.0454439	5.271E-05
SND1	0.0421429	5.282E-05
WDR18	0.086092	5.285E-05
RNF111	-0.018621	5.326E-05
HIBCH	-0.0042495	5.333E-05
VPS13B-DT	-0.0528672	5.354E-05
CBWD2	-0.1023971	5.372E-05
ZNF83	-0.0174196	5.377E-05
SSBP4	0.0667065	5.469E-05
PRMT5	-0.0354735	5.473E-05
ZFAND6	-0.1302916	5.503E-05
CRTC2	-0.0322096	5.538E-05
CYFIP2	0.1720934	5.563E-05
XPC	-0.0767164	5.565E-05
PLCXD1	0.0482796	5.585E-05
FAM168B	-0.0307735	5.594E-05
DEPTOR	-0.0756899	5.605E-05
GPATCH4	0.1459313	5.624E-05
MBD3	-0.0192183	5.625E-05
ST7L	-0.0174945	5.643E-05
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CREB3	0.0153496	5.695E-05
FAM120A	-0.0444878	5.705E-05
DDOST	0.0867406	5.709E-05
SURF2	0.045272	5.725E-05
RNF216	-0.0006957	5.732E-05

MBIP	-0.0205189	5.737E-05
MFSD3	-0.007818	5.774E-05
AL355336.1	-0.0429005	5.776E-05
MTFR1	-0.0296223	5.8E-05
IL12A-AS1	-0.1651768	5.804E-05
RSBN1	0.0223572	5.805E-05
ECHDC1	-0.0343004	5.812E-05
PYROXD1	-0.0648121	5.817E-05
RPS28	-0.1338686	5.829E-05
HEATR3	-0.0219892	5.83E-05
GOT2	0.045693	5.868E-05
RBFA	0.1110754	5.876E-05
RAB35	-0.0260736	5.887E-05
METTL7A	-0.12135	5.939E-05
TMEM64	0.0156444	5.964E-05
AC018362.1	-0.0589675	6.027E-05
NCF4	-0.2441665	6.062E-05
SHOC2	-0.1020573	6.064E-05
AC026471.1	0.051067	6.096E-05
TADA3	-0.005254	6.117E-05
TAF8	-0.030079	6.132E-05
SLC8B1	-0.0599538	6.137E-05
AK6	0.0530638	6.14E-05
RRM2B	-0.1430062	6.152E-05
SF3A1	-0.0585091	6.154E-05
NUCB1	0.0030534	6.161E-05
CENPX	0.0244365	6.199E-05
LCT	0.0826491	6.204E-05
SUPT20H	-0.0694765	6.225E-05
KAT8	-0.0206064	6.225E-05
SEC13	-0.042707	6.25E-05
COPB1	0.0244437	6.273E-05
IFI27L1	0.0175842	6.275E-05
UBXN2A	-0.0612678	6.279E-05
ARF3	0.0544696	6.289E-05
CYB5R3	0.0561967	6.319E-05
SAMD4B	-0.0142252	6.321E-05
CCNT1	0.0401873	6.325E-05
CARS2	0.0519785	6.336E-05
MRPL30	-0.0587943	6.358E-05
DNAJB12	-0.0126941	6.381E-05
RNPEP	-0.0152392	6.4E-05
GARS-DT	-0.0809904	6.434E-05
MAGED1	0.1047215	6.446E-05
SNAP29	0.0604668	6.472E-05
SMARCD2	0.0401568	6.476E-05
SETMAR	-0.0052364	6.485E-05
FRMD4B	0.1246784	6.488E-05
LBHD1	0.0201168	6.492E-05
PAK1IP1	-0.0466725	6.504E-05

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CAPZA2	-0.0876913	6.532E-05
MAP3K5	-0.030758	6.533E-05
TMEM177	0.0212613	6.533E-05
CDIPT	0.0245456	6.537E-05
SP3	-0.0941321	6.542E-05
RRP15	-0.0544237	6.542E-05
IL1B	0.2317297	6.552E-05
ABHD3	-0.0296738	6.584E-05
VEZF1	-0.1005861	6.593E-05
KCNE3	-0.1191316	6.618E-05
NAT14	0.0506822	6.643E-05
SLC22A16	0.0448577	6.665E-05
RAI1	-0.0349997	6.675E-05
ELK4	-0.0819931	6.696E-05
SPNS1	-0.032528	6.706E-05
ZFR	-0.0908791	6.706E-05
HIPK1	-0.1225836	6.719E-05
PHACTR4	-0.1019184	6.731E-05
FABP5	0.2292996	6.77E-05
ISOC2	0.0729909	6.806E-05
TFE3	-0.0314353	6.849E-05
LARP1B	-0.013559	6.854E-05
ATP11A	-0.0400943	6.872E-05
PHF6	-0.0194747	6.917E-05
LMO2	-0.2245026	6.954E-05
PDP1	-0.0416371	6.969E-05
SYNGR1	0.1939188	7.021E-05
CANT1	0.0079643	7.024E-05
GLRX2	-0.002064	7.084E-05
ARHGAP45	-0.0329749	7.104E-05
FAR2	0.012628	7.134E-05
CISD3	0.0887095	7.161E-05
SPRTN	-0.0305539	7.164E-05
PMF1	0.0766788	7.208E-05
LINC00623	-0.0510615	7.226E-05
ATAD2	0.0867771	7.228E-05
IRF2	0.0590448	7.267E-05
KIF22	-0.0676236	7.276E-05
PTK2B	0.0029995	7.328E-05
HNRNPH2	0.0059663	7.348E-05
TIAL1	-0.089575	7.353E-05
HGSNAT	0.0054755	7.362E-05
TCAIM	-0.0897054	7.404E-05
ADARB1	-0.0282144	7.425E-05
CHMP2A	0.1096206	7.441E-05
BCL9L	-0.0590104	7.447E-05
SCAI	-0.0441069	7.452E-05
VPS4B	-0.0802059	7.455E-05
GTF2H4	0.02233	7.484E-05

ICMT	-0.0119397	7.507E-05
THAP11	-0.0191468	7.594E-05
EBP	-0.0510809	7.633E-05
MRPL16	0.0298762	7.645E-05
FAM172A	-0.0539034	7.647E-05
CCDC124	0.0491014	7.672E-05
STMP1	-0.189331	7.717E-05
LARP4	-0.0413503	7.734E-05
RABGEF1	-0.0158804	7.813E-05
BIRC3	-0.1502272	7.83E-05
SMC1A	-0.0229458	7.84E-05
RNF8	0.0308127	7.841E-05
CENPU	0.0537878	7.859E-05
NAPA	0.0187658	7.878E-05
DLEU1	-0.0120144	7.881E-05
XRRA1	-0.0697514	7.884E-05
SSRP1	0.0892748	7.888E-05
PSMC1	-0.0465003	7.92E-05
DPH3	-0.0036952	7.927E-05
FIGNL1	0.0044706	8.046E-05
LINC00847	-0.0061117	8.072E-05
AC004951.1	-0.0795743	8.156E-05
HSPH1	0.0239988	8.157E-05
LASP1	0.0033605	8.218E-05
CLIP2	0.0334375	8.236E-05
MRPL43	0.0404165	8.274E-05
DNPH1	0.1348742	8.275E-05
SETD3	-0.0185367	8.357E-05
U2AF2	-0.050193	8.378E-05
APEH	-0.0048859	8.385E-05
DLG1	-0.0357785	8.393E-05
SURF1	0.0324177	8.417E-05
ARPC5	0.059505	8.452E-05
SEMA6B	-0.0572803	8.493E-05
SLC30A7	-0.0533412	8.5E-05
CCM2	-0.0452417	8.531E-05
RNF146	0.0188098	8.539E-05
BMF	-0.0304556	8.58E-05
MRTO4	0.0429713	8.587E-05
PRMT2	-0.0724383	8.616E-05
ANKRD27	-0.0916618	8.664E-05
ZBED3	0.0823764	8.666E-05
FOXK2	-0.0524772	8.686E-05
MRPL19	0.0399721	8.699E-05
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EPM2A	-0.0283996	8.748E-05
MRPS27	0.0315219	8.806E-05
POLR2F	0.0223331	8.814E-05
RNF220	-0.0724771	8.831E-05
FAM174A	-0.0106739	8.832E-05



PLEKHA3	0.0059086	8.893E-05
RAD51D	-0.0271941	8.913E-05
NOA1	-0.0017821	8.935E-05
VAT1	-0.0877651	8.99E-05
SMG5	0.005892	9.046E-05
MAP4	-0.0587668	9.073E-05
ZMAT3	-0.0589004	9.128E-05
NCAPD2	-0.003127	9.137E-05
MILR1	-0.0414139	9.211E-05
DROSHA	-0.0293287	9.217E-05
YIPF6	0.0054018	9.229E-05
MMGT1	0.0043328	9.267E-05
MRPL23	-0.0549812	9.295E-05
COQ10B	-0.0555105	9.297E-05
XPNPEP1	-0.0462553	9.299E-05
COX10-AS1	-0.0192156	9.301E-05
PHF23	-0.0545288	9.336E-05
ACCS	-0.003775	9.356E-05
NOG	-0.0797251	9.385E-05
ANAPC7	0.0475154	9.386E-05
SEC23B	-0.0415241	9.387E-05
ZNRF2	0.010956	9.425E-05
ACTL6A	0.0341436	9.471E-05
FTX	-0.2114413	9.493E-05
SELENOP	0.2009145	9.499E-05
ATF7	-0.0273825	9.551E-05
ZC3H7A	-0.07484	9.562E-05
STAU2	-0.0149687	9.573E-05
ERI3	0.0235096	9.579E-05
WDR83	-0.0174138	9.586E-05
HNRNPUL2	-0.0614384	9.607E-05
RPP21	0.0233139	9.617E-05
PGM2	-0.0288151	9.638E-05
ZMYM1	0.0379467	9.648E-05
SLC25A1	0.0467238	9.658E-05
ZFP91	-0.1030745	9.699E-05
WDR59	0.0032428	9.701E-05
THOC5	-0.0210533	9.777E-05
MED4	-0.0349981	9.798E-05
HOOK2	0.0139687	9.802E-05
NANS	0.1182485	9.838E-05
ANKRD36B	-0.0688864	9.882E-05
C5orf56	-0.1292282	9.888E-05
VAMP5	-0.06999	9.949E-05
ATP6V1E1	-0.0924197	9.98E-05
C2orf68	-0.0718913	0.0001001
FUT4	-0.1508097	0.0001002
MZT1	0.0034959	0.0001005
KLHL5	-0.0463652	0.0001007
ASPSCR1	-0.0033991	0.0001007

DNAJC11	0.010425	0.0001011
FBXW5	-0.0029493	0.0001012
SLC15A4	-0.0212296	0.0001023
OTUD6B	-0.081094	0.0001025
GTPBP10	-0.0501912	0.0001027
UFD1	-0.0332366	0.0001028
ATP6V1B2	0.0656461	0.0001028
DCAF17	-0.0047356	0.0001028
TUT7	-0.0714017	0.0001031
PRDX3	-0.0072692	0.0001036
E2F3	-0.1260104	0.0001039
DGCR8	-0.0144568	0.0001041
PRPSAP2	-1.035E-05	0.0001041
UBL7	-0.0352083	0.0001053
AC002310.1	0.0057259	0.0001053
RP2	-0.0432954	0.0001057
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ZBTB33	-0.0402408	0.0001064
PAICS	0.108197	0.0001067
SLC36A4	-0.1147033	0.0001069
SNRPA	0.0167	0.0001069
SEC63	0.0405187	0.000107
ATG5	-0.0031153	0.0001071
HDAC10	-0.0363183	0.0001071
MAIP1	0.0003308	0.0001073
ZNF609	-0.0923544	0.0001075
ZMYM6	-0.090296	0.000108
SAP30	0.0458606	0.0001082
EED	0.0127293	0.0001085
IPO7	-0.0154999	0.0001086
RELCH	-0.0294116	0.0001089
CNOT3	0.0068316	0.0001092
NBAS	0.0816102	0.0001092
SPOUT1	-0.0037627	0.0001095
IKZF5	-0.0494489	0.0001095
PPIL4	0.0474837	0.0001097
AL022311.1	-0.0038032	0.0001102
DDX59	-0.0219617	0.0001107
ENTPD6	0.0006451	0.0001108
UBE2E3	0.0024944	0.0001109
DCAF8	0.0031071	0.0001112
GRB10	-0.0330981	0.0001113
PLA2G12A	0.0742798	0.0001114
MAP2K7	-0.0231121	0.0001116
KLC1	-0.0355529	0.0001119
C12orf66	-0.0108744	0.0001119
TDP2	0.0104378	0.000112
SP100	-0.1691787	0.0001122
TMEM41A	-0.0130815	0.0001125
DEXI	-0.0223367	0.0001125

B3GALT6	0.0340716	0.0001127
RNF2	0.0051597	0.0001128
EEPD1	-0.0055075	0.0001129
VBP1	-0.0277199	0.0001133
NBPF19	-0.1139774	0.0001134
RCN2	-0.0345019	0.0001136
PPP1R21	-0.1078538	0.0001142
STX8	0.0039186	0.0001144
AC124016.2	-0.0437258	0.0001149
ZFYVE26	-0.0046358	0.0001149
KIF2A	0.1936755	0.0001156
TRMT1	-0.0059167	0.0001157
SAC3D1	-0.0149207	0.0001159
SFT2D3	-0.0104366	0.0001163
PRKX	-0.0060651	0.0001163
CDC47L	0.0826697	0.0001164
DIPK1B	0.0273957	0.0001166
CCDC7	-0.0123699	0.0001168
TLE3	-0.0429715	0.0001169
C1QBP	0.2083987	0.0001175
TMEM30A	-0.0810297	0.0001176
HSD17B10	-0.0290983	0.0001183
HMG20B	0.0324951	0.0001191
CSTF1	0.0117588	0.0001193
DPYD	-0.0148074	0.0001197
ZNF891	-0.0376555	0.0001202
CPSF7	-0.0086985	0.0001203
IMPAD1	-0.0350647	0.0001204
HSP90AB1	0.1851255	0.0001206
LRIG2	-0.0587777	0.0001206
MAT2B	-0.1529052	0.0001206
ACAD8	0.0016814	0.0001211
APOBR	-0.0765864	0.0001215
C12orf57	0.0159256	0.0001217
CCDC82	-0.0086865	0.000122
CCDC32	-0.0274354	0.0001221
NCSTN	-0.0398496	0.0001232
TIMM29	0.0073318	0.0001232
FTCDNL1	-0.0516642	0.0001236
HNRNPUL1	0.024636	0.0001236
TRAPPC13	-0.0328408	0.000124
NDUFA10	0.000832	0.0001243
PAXIP1-AS2	-0.0236461	0.0001244
ZNF652	-0.0366798	0.0001246
DPEP2	0.0169435	0.0001246
RERE	-0.0466159	0.0001247
WBP11	-0.0680785	0.0001264
TPX2	0.106577	0.0001265
MDC1	-0.0030243	0.0001281
FAM53B	-0.0647631	0.0001283

MALSU1	0.0219086	0.0001295
DUSP11	-0.0339362	0.0001298
AC092329.4	-0.0170631	0.0001299
MKKS	-0.0097271	0.0001305
NUDT14	-0.0395829	0.0001305
CD99L2	-0.0405253	0.0001307
GID8	-0.0422387	0.0001309
CTNNBIP1	0.0050596	0.0001316
TPK1	-0.0238434	0.0001317
EHBP1	-0.0001786	0.0001322
BCAS3	-0.0493217	0.0001322
RBM12B	-0.0936981	0.0001333
CR381653.1	-0.0229891	0.0001335
GTF2B	-0.0017416	0.0001348
GAR1	0.027494	0.0001349
FLI1	0.0386907	0.0001351
COG3	-0.0397585	0.0001352
MERTK	-0.0208884	0.0001354
VKORC1L1	0.0121129	0.0001367
POLR2B	-0.0289013	0.0001368
ANKRD46	-0.0369278	0.0001369
BAG5	0.0377753	0.0001369
PIGS	-0.0131379	0.000137
MRPS22	0.055597	0.000137
GALNT11	-0.040987	0.0001371
SPSB2	-0.0156456	0.000138
METAP1D	-0.0280046	0.0001381
FBXW11	-0.0258273	0.0001381
ZNF671	0.0016989	0.0001384
ZNF780B	0.0121752	0.0001402
PTAR1	-0.098952	0.0001403
GFER	0.0638611	0.0001405
WDR54	0.0938762	0.0001408
CCDC189	-0.0702127	0.0001416
GAK	-0.0456161	0.0001421
ACAP2	0.0117601	0.0001422
PRPF3	-0.058846	0.0001425
AL353807.5	-0.0354147	0.0001431
IFRD1	0.034714	0.0001433
USP19	-0.0234666	0.0001444
CNPY3	0.1422616	0.0001445
RNF14	-0.0399939	0.0001449
GGH	0.088717	0.0001451
TRAF3IP2	-0.0256434	0.0001451
RAP1GDS1	-0.0092198	0.0001454
RBM6	-0.0491451	0.0001459
WDR46	0.0532678	0.0001459
INPP5F	-0.0402805	0.000146
CHST11	0.001258	0.0001462
ALG2	-0.0181293	0.0001467

TRUB2	0.0255611	0.0001467
NAA60	8.964E-05	0.000148
RNPC3	-0.1122473	0.0001487
RASA4	-0.0083149	0.0001488
RBM19	-0.0207187	0.0001489
BAK1	-0.0209688	0.000149
LMBR1L	-0.0319191	0.000149
SPINT2	0.183582	0.0001496
AGO1	-0.0943063	0.0001499
GPSM2	-0.1004586	0.0001499
SCML2	0.1015275	0.0001505
AL138756.1	-0.0709304	0.0001512
SMIM8	-0.0539164	0.0001515
TFDP1	-0.0191167	0.0001518
TMA7	-0.1916519	0.000152
ECD	-0.0375114	0.0001521
PRKAG2-AS	0.077555	0.000153
ATR	-0.1686188	0.0001535
TXNDC15	-0.0108368	0.0001535
CTSZ	0.0743999	0.0001537
MSL3	-0.0409512	0.0001544
RNMT	-0.031194	0.0001552
STAT5A	-0.1388277	0.0001554
MRFAP1	-0.0329213	0.0001555
HILPDA	0.0256922	0.0001557
PLXNC1	-0.1580832	0.0001559
RBM7	-0.0279196	0.0001561
GNAI3	0.0182471	0.0001568
UBL3	-0.0085932	0.0001573
AP4M1	-0.0160273	0.0001575
NAA15	0.0373138	0.0001579
IPO5	0.0269388	0.0001586
TCP1	0.0772223	0.0001594
UHL3	0.001805	0.0001617
CHAMP1	0.0019796	0.0001619
PLXND1	0.1354638	0.0001625
AKT2	0.0271256	0.0001634
NBPF14	-0.0839932	0.0001636
SPRYD4	-0.0310259	0.0001639
TOMM5	0.1332587	0.0001639
TNFRSF1B	0.118565	0.0001641
UBE2N	0.0379205	0.0001649
PLTP	0.0624031	0.000165
SMARCAL1	-0.015598	0.0001653
MSH6	0.0516125	0.0001657
STXBP4	-0.0727858	0.000166
DCAF13	0.0335751	0.0001663
TARDBP	-0.0772197	0.0001667
CPLANE1	-0.0501909	0.0001668
HESX1	-0.0087225	0.0001671

FAHD2B	0.0118852	0.0001675
ZNF26	-0.0902586	0.0001675
STT3A	-0.0345093	0.0001678
DNAJB11	0.0406629	0.000168
MYL6	0.1781507	0.000168
QRICH1	-0.0372748	0.0001684
LRRFIP2	-0.0191381	0.0001696
TMX3	-0.0897805	0.0001707
HSPA1A	-0.0333853	0.000172
FARSB	0.0051267	0.0001727
PPP1R18	0.0759331	0.0001733
FAM13B	-0.053446	0.0001743
BCL10	-0.0518421	0.0001743
RPE	-0.0376652	0.0001746
ODR4	-0.0386266	0.0001748
NAT10	0.0445638	0.0001748
AC093297.2	-0.0424073	0.0001752
AL513128.2	-0.0289054	0.0001753
DNPEP	-0.0011042	0.0001761
ODC1	0.0975105	0.0001769
TIPRL	0.0298492	0.0001773
MKRN1	0.0094641	0.0001773
FASTKD3	-0.018553	0.0001778
NUTF2	-0.053659	0.0001785
SPSB3	-0.0372648	0.0001787
RABIF	0.0207769	0.0001793
C12orf10	0.0793901	0.0001795
NUDT2	0.0078584	0.0001797
ACYP2	-0.095615	0.0001797
TMEM87B	-0.0195256	0.0001798
FYCO1	0.002042	0.0001803
ARMC8	-0.0526406	0.0001803
NUCB2	0.2088578	0.0001814
SH3GLB2	-0.0074823	0.0001822
FKBP3	0.0882518	0.0001833
EEF2	-0.102136	0.0001839
RICTOR	-0.1130045	0.000184
C11orf68	-0.0513384	0.0001841
HIF1A	0.1320845	0.0001842
TRGC2	0.1025796	0.0001843
P2RX4	-0.0996615	0.0001848
TPRG1L	0.0070425	0.0001848
MAPKAP1	-0.0323489	0.000185
NAPRT	0.1009257	0.0001851
MAN2B1	-0.021166	0.0001865
UCKL1	-0.0122313	0.000187
TRIM13	-0.0936956	0.0001871
TSR3	0.0222958	0.0001885
GTF2F1	0.0287691	0.000189
GTF2E2	-0.008929	0.0001891

KDM2B	-0.0606113	0.0001896
ACBD6	0.0517366	0.0001908
AC142472.1	-0.0542651	0.0001925
USF3	-0.0535167	0.0001947
ADPRM	0.0066139	0.0001949
CYC1	0.077913	0.0001956
PBXIP1	0.0130669	0.000196
AC139099.2	0.1092579	0.0001961
UBAP2L	-0.0203692	0.0001978
CPSF4	0.0096862	0.0001986
MKNK2	-0.0768567	0.0002007
LIG1	0.0508231	0.0002032
PANK3	-0.0958289	0.0002034
PAQR7	-0.0473209	0.0002038
MRPL46	-0.0116429	0.0002041
UQCC1	-0.0164718	0.0002041
WDR82	-0.0662406	0.0002042
NDUFA9	0.0212222	0.0002046
IMPA1	-0.0293401	0.0002051
HAX1	0.0616398	0.0002053
UBP1	-0.0248232	0.0002059
ACSS1	0.0550305	0.0002062
MEIS1-AS2	-0.0262836	0.0002063
ZG16B	0.1020833	0.0002066
FLCN	-0.0479945	0.0002067
BAG1	-0.0403084	0.0002071
BTBD2	0.002943	0.0002074
SCAND1	0.0675647	0.0002075
PTP4A3	0.1176085	0.0002077
AC127521.1	0.0403953	0.0002087
SDHD	-0.0305426	0.000209
PPM1B	-0.0364673	0.000209
CYTH2	0.0219475	0.0002105
ERF	-0.1096582	0.0002117
AC008764.8	-0.0217624	0.0002119
PITPNA-AS1	0.0510867	0.0002125
SOCS7	-0.0336395	0.0002127
CARHSP1	0.1098541	0.0002132
POLB	0.002675	0.0002133
ABCF2	0.0085667	0.0002136
BTBD7	-0.0608208	0.000215
DLG5	-0.0345301	0.0002151
DNAJC10	-0.1454628	0.0002152
C1orf122	0.0119449	0.0002154
ELMOD2	-0.0663779	0.0002163
HLTF	-0.032901	0.0002167
MARK3	-0.0586498	0.0002167
NPRL2	-0.0154325	0.0002178
PPP1R3D	0.0127904	0.0002178
PLRG1	-0.0448511	0.0002183

FYTTD1	-0.1261569	0.0002185
COA1	-0.0648552	0.0002189
CLASP2	-0.0702263	0.000219
PDCD7	0.1214933	0.0002197
ZNF274	-0.007012	0.0002199
ATP7A	-0.0623707	0.0002207
ERP44	0.0161005	0.0002211
MAFK	0.0496499	0.0002214
MRPS18A	-0.0034127	0.0002214
PRMT9	-0.0409759	0.0002217
AC004865.2	0.0815849	0.0002219
MRPL14	0.0285325	0.0002219
NHLRC2	-0.1058499	0.0002226
VAPB	0.0044727	0.0002242
NIFK-AS1	0.0177686	0.0002256
MTRES1	0.0511889	0.0002277
SFXN3	0.0045678	0.0002313
BACE1-AS	-0.0490312	0.000233
HINFP	-0.0538174	0.0002336
ACP1	0.0125887	0.0002347
TMED8	0.0425614	0.0002348
PSMD6	-0.0124323	0.000235
STRN4	-0.0080799	0.0002354
RNF5	-0.0722062	0.0002356
POLR2E	-0.0306701	0.0002367
UNC13D	-0.0238396	0.0002369
HMOX2	0.020662	0.000237
LAS1L	0.0403692	0.000237
TMEM218	-0.0107287	0.000237
REV1	-0.0036273	0.0002374
SMIM4	-0.0598089	0.0002379
POMGNT1	-0.012223	0.0002384
SLC25A46	-0.0877357	0.0002384
INTS10	0.0169373	0.0002391
FAM20B	-0.0736987	0.0002407
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PDCL	-0.0650504	0.0002434
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TMEM8A	-0.0186569	0.0002436
MPV17	0.02377	0.0002444
MOB3A	-0.056713	0.000245
CDK19	-0.0821839	0.0002453
PIK3R4	0.0123905	0.0002456
ARPP19	-0.1025779	0.0002464
RNF40	-0.0159717	0.0002468
TMEM71	0.1035092	0.0002478
KAT7	-0.079225	0.0002486
PEF1	-0.0019977	0.0002516
ARNT	-0.0413446	0.000252
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CHPT1	-0.0947207	0.0002527
SLC35D1	-0.0153652	0.0002533
EML3	-0.018407	0.0002537
TBC1D13	0.0346604	0.0002539
ST6GALNAC	0.0827177	0.0002546
ARIH1	-0.0501443	0.0002552
PEX3	-0.0176275	0.0002554
CLIP4	-0.0287511	0.0002561
CEP85	-0.0291866	0.0002566
SLC30A6	-0.0182461	0.0002585
TAF2	-0.017261	0.0002589
DDX20	-0.0364215	0.0002592
SAT1	0.2497833	0.00026
BRD3	-0.0854662	0.0002606
FBXO4	0.0179069	0.0002608
SLBP	0.0960327	0.0002608
COL24A1	0.1238494	0.0002618
OSBPL2	-0.0443208	0.0002619
DYNLL1	0.2156057	0.000262
PPM1M	-0.0513795	0.000264
RBM14	0.0675526	0.0002645
ANKZF1	0.0144912	0.0002651
NUS1	-0.0346274	0.0002657
ABHD18	-0.0425868	0.0002658
RHOG	-0.1180573	0.0002672
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AGAP5	-0.0283998	0.0002678
ZNF7	-0.0443839	0.0002681
YME1L1	-0.0924928	0.0002685
PCGF3	-0.0381896	0.0002685
TIA1	-0.1325582	0.0002685
RIOK1	-0.0114832	0.0002691
ZNRD1	0.0784095	0.0002697
FASTKD2	-0.0197328	0.0002698
CBX1	-0.0501614	0.00027
C2CD2	0.0202737	0.0002701
IFT20	0.0033053	0.0002706
SPAG16	0.0808616	0.0002719
ASRGL1	-0.0391879	0.000272
MAGED2	-0.0035216	0.0002722
FUT10	0.025161	0.0002729
TMEM184C	-0.0732882	0.0002738
RBBP7	-0.0048176	0.0002743
SPCS3	-0.0159713	0.000275
PLCB1	0.1155335	0.0002773
GALT	-0.0113228	0.0002804
ARHGAP35	0.0010059	0.000281
MGAT1	-0.0185698	0.0002816
AL390728.5	-0.0403299	0.0002819
OTUD5	0.0327575	0.0002826

CAPN1	0.0126819	0.000283
ZXDC	-0.0721853	0.0002834
ERCC3	-0.0199841	0.0002836
DBP	-0.025461	0.0002842
LTBP3	0.0371592	0.0002842
AP2B1	-0.0481354	0.0002843
LSM12	-0.0027975	0.000285
TMA16	-0.0575536	0.0002851
GGA2	0.005413	0.0002851
FAM217B	-0.0328202	0.000287
HSPA13	-0.0224169	0.0002879
RAB6A	-0.0394105	0.0002892
CCNK	-0.013319	0.0002896
FAM122A	-0.0070426	0.0002916
ATP6V1H	-0.0363522	0.000292
PRKCD	-0.0759031	0.0002922
SLC35F2	-0.0281689	0.0002933
TMED9	-0.0092417	0.0002935
ESYT1	-0.1012115	0.0002947
ZBTB5	0.0027317	0.0002953
CUL4A	-0.0607985	0.0002964
DIP2B	-0.0534857	0.0002965
C17orf80	-0.0417849	0.0002967
DPH5	-0.0347442	0.0002976
BOP1	0.0173495	0.0002978
PEX5	-0.0150144	0.000298
PGD	-0.0666969	0.0002981
RPUSD4	-0.0274428	0.0002983
RMDN1	0.0094521	0.0002988
VAMP2	0.0943096	0.0002988
UVSSA	-0.0355434	0.0002989
SAP30BP	-0.0328601	0.0002994
CAT	-0.2302435	0.0003015
FAM106A	-0.0221123	0.0003027
PHKB	-0.0868899	0.0003029
C5orf15	-0.0765188	0.000303
AASDH	0.00814	0.0003031
PDRG1	0.0079924	0.0003031
CEP70	-0.0418348	0.0003042
ACSL3	-0.0609971	0.0003045
SPPL2A	-0.0625732	0.0003103
HAUS2	-0.0395122	0.0003118
CCDC126	-0.0341619	0.0003123
ATXN3	-0.0856319	0.0003136
SMARCB1	-0.0677596	0.0003142
FGD5-AS1	-0.0468045	0.0003144
TMEM134	0.0964993	0.0003169
UMAD1	-0.0089913	0.000318
CTNNAL1	-0.0052541	0.0003183
OSBPL9	-0.0081535	0.0003188

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SETD5	-0.0643896	0.0003199
ERI1	0.0510743	0.0003202
RNF168	-0.047049	0.0003206
GTF2F2	0.0288133	0.0003207
TBC1D23	-0.029966	0.0003212
RABGAP1	-0.0126345	0.0003214
TTYH3	-0.0517717	0.0003219
ACPP	-0.0030787	0.0003235
GALNT4	0.0661626	0.0003236
COPZ1	-0.0109794	0.0003246
TTBK2	-0.0529024	0.0003254
RNF167	0.0843728	0.0003255
SUSD1	-0.040611	0.0003257
DEGS1	-0.0368461	0.000326
GPR89A	-0.0614349	0.000326
DPY19L3	-0.0647363	0.0003264
ANAPC15	0.0301289	0.0003269
ADGRA3	-0.041938	0.0003275
NDUFB6	-0.0390031	0.0003293
VIRMA	0.0422787	0.0003294
QPCTL	-0.0183702	0.0003296
ABHD13	-0.0196049	0.0003297
HDAC5	0.0122796	0.000333
SAMD1	-0.0730498	0.0003334
NRSN2-AS1	0.0216882	0.0003339
GFI1	-0.0599917	0.0003345
MCM2	0.0613701	0.0003346
IKZF1	-0.1780535	0.0003351
TMED2-DT	-0.0368918	0.0003367
ASB7	-0.0256079	0.0003371
RUFY1	0.1430592	0.0003382
CLK4	-0.0958864	0.0003396
TERF2IP	0.1362265	0.0003423
CPNE2	0.0993901	0.0003425
C9orf43	0.0307527	0.0003449
POLR3A	-0.0205627	0.0003458
EAPP	0.0090416	0.0003462
RTN4	0.1686786	0.0003471
CCDC18-AS	-0.0036776	0.0003472
LETMD1	-0.0788458	0.0003486
STRADA	-0.0362619	0.0003488
FBXL15	0.0759193	0.0003488
USP9X	-0.0504623	0.0003497
GBP3	-0.0492726	0.0003506
ZNF493	-0.1327611	0.0003506
AP1S2	-0.1536997	0.0003507
LRCH3	-0.072044	0.0003509
AHCY	0.0309297	0.0003511
NKIRAS2	-0.0077504	0.0003519

XPOT	-0.11155	0.0003537
UBE2L3	0.0937672	0.0003537
HAUS3	-0.0330094	0.000355
FAM120AOS	0.0027756	0.0003552
XRCC6	0.0568602	0.0003559
ATP11B	-0.0698354	0.0003565
PMS1	0.0319701	0.0003577
SDF2L1	0.0674421	0.0003579
PIK3CG	0.0514315	0.0003609
SMU1	-0.0520341	0.0003611
OSGIN2	-0.0462538	0.0003615
COA8	0.0550055	0.0003618
AC093627.4	-0.0298125	0.0003622
NUDT21	0.0165619	0.0003623
CAPZB	-0.0458086	0.0003624
NDUFB2	0.1237466	0.0003626
EBPL	0.1105798	0.000363
TPGS2	0.0111267	0.0003635
TMEM126B	-0.0350369	0.0003639
GTF3C3	-0.0287784	0.0003644
VPS16	-0.0038919	0.0003663
STRIP1	-0.022167	0.0003666
C1orf216	-0.0510776	0.0003681
STAP1	0.1055436	0.0003696
B4GALT4	-0.0165345	0.0003699
AHDC1	0.0717423	0.0003708
ZSCAN12	-0.034702	0.0003708
DCXR	-0.0539232	0.0003711
AGO4	-0.034545	0.0003726
PFDN6	-0.0033586	0.000373
WDR43	-0.0321055	0.0003734
PHF1	-0.0078307	0.0003744
UBIAD1	0.0395104	0.0003748
KLF3-AS1	0.0349529	0.0003754
ATP11C	-0.0105809	0.0003772
IFT52	-0.0527178	0.0003772
TAMM41	-0.0273695	0.0003782
CDK5	-0.0100192	0.0003793
OMA1	-0.0956123	0.0003801
THUMPD3	-0.0183954	0.0003802
POLR2G	-0.0661708	0.0003802
ING4	-0.0556685	0.0003815
SRCAP	-0.0249452	0.000383
DNAJC19	0.0834923	0.0003833
IFT43	0.015408	0.0003846
IKBKE	0.0327255	0.0003851
ILKAP	-0.0747238	0.000386
FEM1B	-0.0331285	0.0003867
AC245060.6	-0.0176006	0.0003881
AC103702.1	-0.1301787	0.000389

POLR3C	-0.0523221	0.0003922
LLPH	-0.1464356	0.0003923
LRPPRC	-0.0726401	0.0003929
NOCT	-0.0499297	0.0003958
NANP	0.0118653	0.0003966
MRPL34	-0.0413337	0.0003977
PLSCR3	0.0006154	0.000398
LRRC58	-0.0713189	0.0003987
VAV3	0.0546544	0.0003991
TMTC4	-0.0252273	0.0004
ZNF429	-0.0482819	0.0004011
COPS3	0.0496515	0.0004026
GSEC	-0.0512791	0.0004036
DDX58	-0.0462204	0.0004056
CTDSPL2	-0.0056438	0.0004063
GLT8D1	-0.0137581	0.0004072
KEAP1	-0.0106051	0.0004073
AL096870.8	-0.0806701	0.0004078
ME2	0.0147054	0.0004079
ZNF417	-0.0492522	0.0004083
ZNF3	0.0276138	0.0004086
ZFYVE27	-0.0411255	0.0004098
PPP2CB	-0.0089356	0.0004103
ZNF117	-0.0849301	0.0004107
DDX19B	-0.026322	0.000413
MED6	-0.0037092	0.0004134
TPRA1	-0.0141526	0.0004139
MRPL2	-0.0099073	0.0004152
ARID3A	-0.1299404	0.0004162
PMPCB	-0.0550818	0.0004165
IDH3G	0.0130676	0.0004166
ERLIN2	0.0261636	0.0004171
CDK17	-0.011849	0.0004174
ILVBL	0.0231444	0.0004174
SMARCAD1	-0.0615507	0.000418
ANO6	-0.0623696	0.0004195
CCDC180	-0.0174152	0.0004198
CASP3	0.0029044	0.0004226
PPP1R3F	-0.0139132	0.0004246
RSBN1L	0.1471583	0.0004273
OGFR	-0.0706992	0.0004283
HIP1R	-0.0257043	0.000429
TMOD3	-0.030014	0.0004299
RGL2	0.0732438	0.0004299
IRF2BP1	-0.0082661	0.0004304
SMS	0.0817915	0.0004312
ATP6V1A	0.0225795	0.0004337
AC016876.1	-0.0280666	0.0004345
TMPO	0.1339467	0.0004357
GLRX5	0.0326372	0.0004361

PLEKHF2	-0.035126	0.0004366
KRBA2	0.0358038	0.0004369
ZNF776	-0.0112566	0.0004392
ATG101	0.0454928	0.0004393
NT5C3A	-0.0783774	0.0004419
DFFB	-0.0185347	0.000442
TAS2R4	-0.0444317	0.0004422
SIKE1	-0.0519417	0.0004431
ADD1	0.0553802	0.0004446
ZNF709	0.0092802	0.0004466
D2HGDH	-0.0113401	0.000448
ZBTB37	-0.0205758	0.0004488
AC011477.2	-0.0229447	0.0004498
NAPEPLD	-0.0532733	0.0004508
BAD	0.0101404	0.000451
MTFR1L	0.0207113	0.0004515
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MIF4GD	0.0027909	0.0004534
KIF9	0.0870616	0.0004572
ANTKMT	0.0975396	0.0004591
CDC16	-0.0339391	0.0004603
AGFG1	-0.0375579	0.0004617
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ZDHHC24	0.061168	0.0004629
SHARPIN	0.0052868	0.0004631
CETN2	-0.0447191	0.0004633
ATXN10	-0.0095455	0.0004642
IARS	0.0255035	0.0004644
TSPAN4	0.0923791	0.0004648
FIBP	0.0952722	0.0004675
ACLY	-0.0331224	0.0004703
CMPK1	-0.104866	0.0004709
SATB1	-0.0190703	0.0004731
DCUN1D4	-0.0267622	0.0004741
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IMPA2	-0.0102382	0.0004753
CRYBG1	0.1147867	0.0004763
TAPT1	-0.0363799	0.0004764
POP7	0.0341716	0.0004777
ZSWIM7	-0.1048328	0.0004788
POGLUT1	-0.0500631	0.0004804
ITFG1	-0.0476568	0.0004806
ADK	-0.158463	0.0004816
OS9	-0.0972422	0.0004828
RPA1	0.0129092	0.0004832
NFIX	-0.0212781	0.0004867
WDTC1	-0.0221216	0.0004878
FERMT3	0.1289079	0.0004883
RNASEH2A	-0.0317859	0.0004902
PTRH1	0.0445573	0.0004902

WDR48	0.0063423	0.0004944
SSH3	-0.0113772	0.0004991
PPP6C	-0.0123933	0.0005039
PKN2	-0.0662489	0.000508
SFT2D1	-0.0565039	0.0005085
CAMTA1	0.0184157	0.0005086
DISC1	0.0207517	0.0005106
PEPD	-0.0203253	0.0005108
SPAG7	0.029152	0.0005113
PRR11	-0.0503963	0.0005119
RHBDD2	-0.0468957	0.0005121
ABHD17A	0.0672019	0.0005141
AC006064.4	-0.0214638	0.0005142
MFSD4B	-0.1241799	0.0005153
LYSMD2	-0.0965679	0.0005185
AL031595.2	-0.035323	0.0005198
WASL	0.025176	0.0005198
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HRH2	0.1101575	0.0005214
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SKP1	-0.1391512	0.0005235
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METTL21A	-0.0018737	0.0005312
FAM174C	0.047694	0.0005332
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CCNH	-0.0363624	0.0005335
LARP4B	-0.0858365	0.0005366
DNAJC15	0.1157415	0.0005373
SDF2	-0.0140782	0.0005391
ZNF24	0.0160036	0.0005404
RNF123	-0.0348718	0.0005412
RBM17	0.0772918	0.0005429
CAVIN2	0.1444694	0.0005477
SCAMP4	-0.0148664	0.0005479
CBFA2T2	-0.0762929	0.0005488
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MFSD8	-0.0603662	0.0005551
TMX1	-0.0254504	0.0005559
PLPP6	-0.0358161	0.000556
GPSM1	0.0825	0.0005574
ZNF121	-0.0180613	0.0005577
MXI1	0.0189192	0.0005593
ZDHHC9	0.0267932	0.0005656
ALAD	-0.0529625	0.0005661
PRKAR1A	-0.0979161	0.0005674
QARS	-0.003217	0.0005684
ILF3-DT	0.017771	0.0005707

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PMS2	-0.0959517	0.0005736
TRAPPC2B	0.0508952	0.0005765
BST1	0.0823886	0.0005809
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TAS2R14	-0.040341	0.0005861
CEP120	-0.0654462	0.0005863
RPN1	-0.0040145	0.0005874
MALT1	0.0078085	0.0005881
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CDYL2	0.0020494	0.0005887
APOBEC3G	0.0262648	0.0005896
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SLC2A5	-0.1037693	0.0005923
RAVER1	0.0110529	0.0005927
HYMAI	0.0714187	0.0005935
FOXP1-IT1	0.0294553	0.0005938
INTS4	-0.0434914	0.0005961
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SGPL1	-0.0055249	0.0006023
TBCCD1	-0.0328902	0.0006062
RPF1	-0.0091303	0.0006063
SLC38A7	-0.0239954	0.0006067
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FAM50B	0.0369689	0.0006094
SUCLG2	-0.0287897	0.0006114
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TP53BP2	-0.0212415	0.0006162
TAF1D	-0.2184563	0.000618
ZNF330	-0.0321743	0.0006181
UBE2E1	-0.0038568	0.0006182
HCLS1	0.0592443	0.0006188
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TAF1	-0.0723493	0.0006207
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TUBD1	0.0058433	0.000622
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MBOAT7	0.1383727	0.0006254
MTCL1	-0.0450953	0.0006265
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CPTP	0.0029396	0.0006374



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NADK2	-0.0437614	0.0006429
TEC	0.1476935	0.0006495
DYNLL2	0.0215116	0.0006506
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ANKHD1	-0.0912803	0.0006585
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TLL3	-0.0013408	0.0006703
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CEP44	-0.0376579	0.0006718
SMAD5	-0.0980404	0.0006733
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LTBR	-0.0360789	0.0006905
PCNX1	-0.1051645	0.000692
TM9SF1	0.030615	0.0006926
DDX5	0.1907904	0.0006928
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CTBP2	-0.0175149	0.000698
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SYAP1	-0.036106	0.0007157
HSPA4	-0.021159	0.0007164
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SNRK	-0.0300615	0.0007252
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SEC23IP	-0.0277946	0.0007274
MAP10	0.0039532	0.0007281
RBBP6	0.1292945	0.0007281
RPS6KA1	-0.0638519	0.0007288
CASP1	0.044061	0.0007296
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NEK9	-0.0075552	0.0007392
STARD7	-0.0694393	0.0007414
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PCF11-AS1	-0.0048894	0.0007468
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ERCC6	-0.0427502	0.0007512
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POR	-0.037056	0.0007682
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PRKAA1	0.0656262	0.000774
ARMC7	-0.0437956	0.0007773
CAPNS1	-0.033731	0.0007793
AKAP11	-0.0197876	0.0007802
TPP2	-0.0353142	0.000781
KIFAP3	0.0242167	0.0007833
GIT2	-0.045857	0.0007836
TADA2A	0.0106432	0.0007846
BRD1	-0.0379907	0.0007855
DNAJC13	-0.0285395	0.0007866
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SIGIRR	0.00508	0.000795
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ARMC1	-0.0132143	0.0008288
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PEX13	-0.0022472	0.0008302
INTS7	0.0021612	0.0008319
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PACC1	-0.0319051	0.0008621
TRIP12	-0.0851517	0.0008631
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SNX10	-0.0970817	0.0008743
SHQ1	0.0070017	0.0008757
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CCS	0.0542868	0.0008922
DTX3L	-0.0072503	0.000896
C17orf67	-0.0628038	0.0008964
TRA2B	0.2005804	0.0008989
SNHG9	-0.0501185	0.0009036
NSUN3	-0.0448013	0.0009041
NOP2	0.0069332	0.0009047
PGAP2	0.015511	0.0009096
SCO2	0.0535423	0.0009131
DIAPH1	0.0558141	0.0009133
ZNF667-AS1	0.039706	0.0009171
NDUFAF5	-0.0447784	0.0009178
EPHB6	-0.0196881	0.0009208
DHX15	-0.0437947	0.0009212
RPS16	0.1273935	0.0009227
AC139887.2	-0.0269129	0.0009238
ZNF576	0.0486612	0.0009301
MDFI	0.1077555	0.0009302
PRIMPOL	-0.0071319	0.000931
CXorf56	-0.035103	0.0009349
PRPF31	0.043526	0.0009359
ATG3	0.0563964	0.000936
SRBD1	0.0019567	0.0009367
ZBTB40	-0.0305537	0.0009395
MR1	-0.0125199	0.0009398
THAP7	0.0609992	0.000941
AXIN1	-0.0416347	0.0009416
TXK	0.0333524	0.0009455
ARL16	0.0324768	0.0009475
AL035071.1	-0.0341056	0.0009502
PTCD1	-0.0239942	0.0009554
ZNF852	-0.0125203	0.0009564
EAF1	0.0162481	0.0009598
LARP1	-0.1212355	0.000961
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COQ8B	0.0094053	0.0009668
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ARID3B	0.0013043	0.0009766
STAMBP	-0.0365703	0.0009783
TOR3A	-0.0305194	0.0009802
ATM	-0.0738335	0.0009828
FOXRED1	-0.0089696	0.0009832
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ALG10B	-0.0588814	0.0009917
FNBP1	-0.1345115	0.0009929
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NKX2-3	0.0224036	0.0010085
PIGM	-0.0870568	0.0010121

WRNIP1	-0.0593477	0.0010255
LYRM2	-0.0279622	0.0010299
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CHPF2	0.0024472	0.0010313
STRN3	0.0086248	0.0010396
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DCTN3	0.0922852	0.0010487
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UTP6	-0.0742686	0.00106
YIF1B	0.0301257	0.0010622
MTX1	0.0172322	0.0010772
VPS11	-0.0423248	0.0010773
CD68	0.1270286	0.0010809
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MRPL50	0.0539738	0.0010822
GPAT3	0.14891	0.0010836
POLR2J3	-0.1619148	0.0010838
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MRPS7	0.0951289	0.0010945
ASNSD1	-0.0249816	0.001097
PARL	-0.0360214	0.0010971
ROCK2	0.0262794	0.0010995
PITPNB	0.001681	0.0011002
DERL1	0.0094012	0.0011006
PNKP	0.0642427	0.001101
AC009133.1	-0.0273052	0.0011049
NUP98	-0.0482296	0.0011052
SRRT	0.02466	0.0011057
PDE6D	-0.034875	0.0011067
C15orf40	-0.0361171	0.0011149
FDX2	0.0680373	0.0011163
ICE1	-0.0395933	0.0011182
C12orf76	0.0053123	0.0011195
SS18L2	0.0264871	0.0011203
AFTPH	-0.0222288	0.0011218
DGKA	0.1104215	0.0011228
TENT2	-0.0664394	0.0011233
TPT1-AS1	-0.0719112	0.0011287
TM7SF2	0.0539557	0.0011292
MGST3	0.2138905	0.0011321
KLF10	-0.0896048	0.0011376
B3GNT2	0.0614377	0.0011394
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KHDC4	-0.085271	0.0011477
POLR1B	0.0058706	0.0011486

MED21	-0.0788173	0.0011489
WASHC2C	-0.1153938	0.0011541
DAPP1	0.0666939	0.0011575
MLLT10	-0.0457836	0.0011576
AC097448.1	-0.0353499	0.0011579
SLC7A6	0.0439306	0.0011611
WDR11	-0.1265832	0.0011655
STK10	0.0651945	0.001169
NOL7	0.1497587	0.0011723
ITPA	0.0496785	0.0011757
SLC20A1	-0.0042083	0.0011851
DNAJB2	-0.0259324	0.0011865
SLU7	-0.0206835	0.0011898
DBNDD2	0.092423	0.0011904
JMJD8	0.0216572	0.0011952
EXOC3	-0.127879	0.0011971
TRAPPC6B	-0.0853178	0.0011999
IDI1	0.0240728	0.0012021
YIPF5	-0.0226401	0.0012022
ACSL5	0.0058627	0.0012028
IDUA	-0.0403217	0.0012047
UBN2	-0.1033226	0.0012047
KYAT3	-0.0340168	0.0012065
OSBPL5	-0.0593842	0.0012127
TRAP1	0.054556	0.0012165
UPF2	0.0637642	0.0012205
MED10	0.0644367	0.0012248
MARK2	-0.0498146	0.0012258
TBC1D9B	-0.0433801	0.0012278
FKBP1A	0.0342581	0.0012297
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CLSTN3	-0.0174025	0.0012325
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MCPH1	-0.0491347	0.0012339
LRP8	0.0708476	0.0012352
PTRHD1	-0.0041335	0.0012379
PNKD	0.0471949	0.0012423
ELAVL1	0.0019388	0.0012441
DNAL1	-0.0332555	0.0012461
SUPV3L1	0.0075666	0.0012468
DOK1	0.0234706	0.0012501
ZNF414	0.0048787	0.0012532
CBFA2T3	0.0810169	0.0012592
FANCM	-0.0166685	0.0012598
TRAPPC12	-0.017586	0.0012644
GPBP1L1	-0.100432	0.0012652
MRPL52	-0.0341667	0.0012674
SIL1	0.0696156	0.0012684
RFNG	0.0145233	0.0012715
CHTOP	-0.0001125	0.0012792

SRPRB	-0.0175848	0.0012795
BNIP2	0.0952845	0.0012806
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GZF1	-0.0046988	0.0012866
SEPTIN1	0.033252	0.0012879
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TP53I13	0.0578954	0.0012883
NF2	-0.000449	0.0012904
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PFKP	0.1097981	0.0012912
AKR1B1	0.1089402	0.0012939
PDPK1	-0.0200651	0.0012946
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CARF	-0.0754565	0.0013014
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FAM177A1	-9.37E-05	0.0013066
PCYOX1L	0.0134832	0.0013076
MRPL13	0.0930401	0.0013083
SMIM19	-0.0340557	0.0013096
PRORP	0.032229	0.0013101
CNP	-0.0166237	0.0013109
PM20D2	0.1347124	0.0013114
PATZ1	-0.0073759	0.001319
WEE1	-0.0158377	0.0013191
SHKBP1	-0.0151965	0.0013203
TSPYL1	-0.0946119	0.0013229
VAR5	0.025909	0.0013237
EID3	-0.0237415	0.0013244
MRPL18	0.1044693	0.0013254
DTD2	-0.0052945	0.0013264
EDEM2	-0.0080202	0.0013287
TRMO	0.0099711	0.0013291
MYBBP1A	0.0048341	0.0013292
CLK2	0.0243717	0.0013292
SHFL	-0.0351339	0.0013302
ZCCHC9	-0.0114079	0.0013334
STX4	0.0672953	0.0013359
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PITPNM1	-0.0296155	0.0013462
TLE5	0.1128793	0.0013514
ANGPTL6	-0.0048886	0.0013541
MARCH1	0.1180199	0.0013555
NEK7	-0.0385263	0.0013585
PRXL2C	0.0038351	0.0013595
UTP15	0.0054889	0.0013628
YPEL5	0.0736194	0.001367
GMFB	-0.0379691	0.0013685

SUGP1	-0.0001146	0.0013702
CNOT10	0.0145872	0.0013702
BCOR	-0.0966225	0.0013771
TAF15	0.0013863	0.0013827
MTREX	-0.0303776	0.0013839
PHC3	-0.0310571	0.0013856
PHC1	0.0171101	0.0013898
TOM1L2	0.00495	0.0013915
TMEM260	-0.039084	0.0013987
GFM1	-0.0449798	0.0013991
SETDB1	-0.0233898	0.0014011
TRIQK	0.0217635	0.00141
ALDH3B1	-0.0077438	0.0014126
TGS1	0.0228999	0.0014145
ACBD5	-0.0753602	0.0014169
SMYD4	-0.0150676	0.0014186
NOSIP	0.0170431	0.0014196
SELENOW	0.1703888	0.0014198
DCAF12	0.0416799	0.0014199
TMEM70	0.05363	0.0014241
ITGB2	0.1274562	0.0014297
KRI1	0.0319222	0.0014312
ATG13	-0.0558099	0.0014324
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RPA2	-0.0800263	0.0014458
KXD1	-0.0385183	0.0014461
GNAI1	0.1890388	0.0014526
PPA2	-0.0175386	0.0014526
ARMC10	-0.1027972	0.001454
COPG2	-0.0418595	0.0014551
VPS13B	-0.0113541	0.001458
AL157392.3	-0.0657948	0.0014586
COMMD5	-0.0333311	0.0014591
ABHD8	-0.0401031	0.0014765
TSTA3	0.1161134	0.001484
ACOT2	-0.0215254	0.0014895
TOR4A	-0.0367294	0.0014906
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C1QTNF4	0.1643549	0.0014918
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RSU1	-0.0724356	0.0015286
RRS1	0.0482769	0.0015309
LDB1	-0.0113538	0.0015347
CYB5B	-0.0397981	0.0015364
RER1	0.0422051	0.0015375



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MADD	-0.0728103	0.0015597
IKBKB	-0.038438	0.0015605
NT5C2	0.001078	0.0015663
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COQ9	0.0302687	0.0015756
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RBM48	0.0078869	0.0015772
MRPL3	0.0494791	0.001578
AC211476.6	-0.0422128	0.0015833
CERT1	-0.010302	0.0015858
CEP104	-0.0368397	0.0015888
UBA7	0.009493	0.0015891
KBTBD7	-0.0194462	0.0015906
HOXB3	-0.1481684	0.0015927
CHD6	-0.0316147	0.0015931
C16orf70	-0.016916	0.0015941
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METTL4	9.226E-05	0.0015997
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PIGT	0.0378829	0.0016043
TBC1D22A	-0.0274586	0.0016079
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PSMG2	-0.0418451	0.0016095
ARF6	-0.031679	0.0016175
BTK	-0.0247256	0.0016225
PLCB2	0.0005053	0.0016228
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GSTM4	0.0507156	0.0016443
TIGAR	-0.0283192	0.0016485
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PACRGL	-0.02685	0.0016584
PICALM	-0.1082555	0.0016626
TTC17	-0.0490408	0.0016757
SEC23A	-0.0526516	0.0016793
HIRA	-0.0036742	0.0016808
HCCS	0.009741	0.0016865
TIMM10	0.0354013	0.0016879
UBR3	-0.0412364	0.0016892
VCP	0.0128034	0.0016944
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PHB2	0.1092414	0.0016987
SMAP1	-0.0609455	0.0017003
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CNN2	-0.0563283	0.0017111
PORCN	-0.0184109	0.0017152
MANBAL	0.0176084	0.0017159
SRPK1	0.0289212	0.0017214
POLR2J2	-0.005379	0.0017219
ZNF736	-0.0562726	0.0017235
APOL1	-0.0325592	0.0017278
CCDC28B	0.0841188	0.00173
USPL1	-0.0207886	0.001731
ACOT8	-0.0073197	0.0017323
CEP128	-0.0715846	0.0017324
RAB1B	-0.0003582	0.0017344
MTX2	-0.0205475	0.0017355
NCOA6	-0.0441519	0.0017366
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SRFBP1	0.0108135	0.0017499
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COA7	0.0337931	0.0017735
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THUMPD1	-0.1824269	0.0017808
ZBTB1	-0.058671	0.0017822
GOLGA7	-0.0064349	0.0017892
KLHL20	0.0117229	0.00179
MTMR6	-0.0220675	0.0018041
VAPA	-0.1991218	0.0018096
ERGIC3	-0.0516223	0.001816
UBFD1	0.0161193	0.0018203
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DYRK4	0.0129851	0.001826
PUSL1	0.0041835	0.001829
ODF2	-0.058745	0.0018302
GUF1	-0.0247556	0.0018352
AGPAT5	0.0483176	0.0018502
DVL3	-0.0737185	0.0018519
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TRAF3	-0.069333	0.0018576
TMEM205	0.1186025	0.0018634
MTF2	0.0833228	0.0018669
TP53RK	-0.0245602	0.0018748
SATB1-AS1	0.0175965	0.001876
ZNF510	0.0018733	0.0018811
TMEM18	-0.0399241	0.0018814
JPT2	0.0166255	0.0018829
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OSCAR	0.0135495	0.001905
DRAP1	-0.2009239	0.001905

STAT5B	-0.0305908	0.0019105
BROX	-0.1078319	0.001915
MSRB2	0.1371709	0.0019152
GNA13	-0.0287438	0.0019162
PREP	-0.0423039	0.001921
HADHB	0.0078838	0.0019222
CIAPIN1	-0.0072775	0.0019236
EMC3	-0.0158513	0.0019424
VPS4A	0.0394806	0.001957
ZFPL1	-0.0117182	0.0019612
PRIM1	0.0904667	0.0019662
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CFAP410	-0.0078467	0.0020024
DDB1	0.0284985	0.002013
NUP93	-0.0330565	0.0020163
AC019205.1	-0.0734705	0.0020165
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TET2	-0.1270399	0.002047
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PIGH	-0.0295846	0.0020609
IBTK	-0.0524194	0.0020644
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NGRN	-0.0200267	0.0020791
USP36	0.033091	0.0020799
PSMB6	0.0778247	0.002085
TMEM126A	0.0670112	0.0020852
WDR1	0.0691938	0.0020878
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PRKCSH	-0.056918	0.0020939
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ABITRAM	-0.0324905	0.0021102
SULT1A1	-0.0246413	0.0021152
CLK1	-0.0798611	0.0021152
GNL2	-0.0349836	0.0021155
LANCL1	-0.0111678	0.0021231
IDNK	-0.0647665	0.0021254
BRCA1	0.1017173	0.0021269
ATAT1	-0.0148169	0.0021276
TRPT1	-0.05803	0.0021289

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PDLIM5	-0.0635187	0.0021323
CINP	0.0475647	0.0021332
ANKRD10	-0.0331043	0.0021343
AC087190.1	-0.0080848	0.002138
PNPLA2	-0.0284007	0.002142
NXT1	0.0120309	0.0021498
CFAP20	0.0326865	0.0021567
NUBP1	0.0049687	0.0021627
METTL25	-0.0263417	0.0021721
TJAP1	-0.0296165	0.002173
TAZ	0.0488566	0.0021732
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FBXL5	-0.0297579	0.0021956
MAP2K4	-0.0022109	0.0021986
YWHAH	-0.0081552	0.0022048
IDH3B	0.0229577	0.0022064
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RASAL2	-0.0598535	0.0022331
MAN1A2	-0.0765652	0.0022368
MYL5	0.0570388	0.0022375
CAMK2G	0.0529345	0.0022441
TIMM21	-0.0237807	0.0022464
TMEM256	0.0022544	0.0022483
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CMBL	0.0881542	0.0022596
FOXN3	-0.1163664	0.0022605
CNTLN	0.105965	0.0022626
KBTBD2	-0.0527591	0.0022634
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SYTL1	0.0125121	0.00227
NECAP1	-0.0257467	0.0022715
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PLAGL2	0.0088168	0.0022878
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H2AFY2	-0.0023504	0.0023322
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PCYT2	-0.0263424	0.0023624
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CCNT2	-0.0453896	0.0023814
CAHM	0.0086329	0.002394
ISOC1	-0.0200346	0.0024039
RNF125	0.1146294	0.0024082
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KMT5B	-0.0244846	0.002413
ALKBH4	-0.0182636	0.0024185
TAPBPL	0.0243121	0.0024224
C1orf131	0.0444069	0.0024302
FOXN2	-0.0380834	0.002437
LIPE-AS1	-0.0438274	0.0024534
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BIK	-0.0630931	0.0024584
NARS2	0.0132785	0.0024598
TSHZ1	-0.0249687	0.0024626
LIN54	-0.0277881	0.0024703
GIN52	0.0899081	0.0024745
HIRIP3	0.0678946	0.0024786
YTHDF3	-0.0576155	0.0024866
MYO1G	-0.1228169	0.002489
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EIF4ENIF1	-0.0187818	0.0025214
RHOF	-0.0272008	0.0025252
TARS	-0.0174512	0.0025262
CUX1	-0.1445427	0.0025354
EIF4A3	-0.0268729	0.0025354
SDR39U1	0.0605369	0.0025458
HIF1A-AS3	-0.0407326	0.0025528
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KDM5C	-0.046986	0.0025609
RELA	-0.0575061	0.0025626
EXOC3-AS1	-0.0406252	0.0025748
CLN5	-0.0772708	0.0025785
ATP6V0C	-0.1669598	0.0025818
ESRRA	-0.0046811	0.0025831
EXOC5	-0.0359423	0.002616
SECISBP2L	-0.0536276	0.0026203
DCAF11	-0.06367	0.0026211
DTX2	0.0089613	0.0026272
OSTM1	-0.0494027	0.0026367
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SEPHS2	-0.0928742	0.0026479
DAP	-0.0268957	0.0026518
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LIMK1	-0.0560426	0.0026549

RXFP1	0.0986179	0.0026553
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DAP3	-0.0066407	0.0026602
MSMO1	-0.1036794	0.0026618
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ACAA1	0.0490942	0.0026671
OTUD4	-0.0490559	0.0026713
BTAF1	-0.034209	0.0026737
TNFRSF18	0.121665	0.0026837
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CIAO1	0.0437488	0.0027175
MAP2K3	0.0499723	0.0027192
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MLF2	0.0193809	0.0027267
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STAT2	-0.0891147	0.0027309
CSNK1E	0.0333674	0.0027312
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TP53I3	0.0155795	0.0027867
EVL	-0.0203177	0.0027868
PICK1	0.0186331	0.0027911
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SGMS1-AS1	-0.0300291	0.0028291
TRIOBP	-0.0098741	0.0028291
RP9	0.0344396	0.0028325
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HDAC2	-0.0895178	0.0028423
STAU1	-0.0205008	0.0028498
NAGLU	-0.0112086	0.0028543
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APOLD1	-0.1077733	0.0028646
TUFM	0.1355482	0.0028706
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TLE4	-0.0015515	0.0028903
RIOK2	-0.0017085	0.0028939
NEK4	-0.0229834	0.0028977
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USP20	-0.0560717	0.0029175
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TRMT13	0.0002201	0.0029385
NFATC1	-0.0313951	0.0029404

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C2CD3	0.0038392	0.0030466
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FMR1-IT1	-0.0426827	0.0030608
USP1	0.0761479	0.0030663
AEBP2	-0.0362492	0.003074
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ABHD12	-0.0142695	0.003106
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MDM1	-0.021249	0.0031172
EIF3G	0.1497953	0.0031331
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CBX6	0.0863185	0.0031437
C18orf25	-0.026245	0.003162
GDI1	0.0076768	0.0031675
PTPN22	-0.018893	0.0031681
ZRSR2	-0.0611594	0.0031753
DIRAS3	0.066107	0.0031773
MFSD5	-0.025965	0.0031782
PSMB2	0.0652448	0.0031878
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AGGF1	-0.0381303	0.0031903
PML	0.0242184	0.0031939
ZMYM2	-0.1281474	0.0031958
DPF2	-0.0217679	0.0032068
HOXB6	-0.0853519	0.0032101
EIF4G1	0.0030013	0.003211
ENTR1	-0.0049365	0.0032116
AFG3L2	-0.0287667	0.0032144
RRM1	0.0750298	0.0032281
MAGOHB	0.0145369	0.003254
MRS2	-0.0499255	0.0032631
CD151	0.0424863	0.0032677
SYTL4	0.0985707	0.0032722
ZFP82	-0.000187	0.0032891
MPHOSPH1	-0.0266312	0.0033131

PDCD10	-0.0111532	0.0033254
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L3MBTL2	-0.011184	0.0033488
CARMIL2	0.0172281	0.0033492
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PCBP1-AS1	-0.0738787	0.0034004
SLC7A1	-0.0136703	0.0034031
PROSER1	-0.0305136	0.0034126
NIPAL2	-0.0300962	0.0034303
PPP3CB-AS	-0.001836	0.0034372
C2orf69	-0.0289722	0.0034415
STK32C	-0.0967571	0.0034477
ACAP3	0.0185614	0.0034506
PCED1A	-0.0325369	0.0034688
PRKDC	0.0876013	0.0034729
IGSF10	-0.0020106	0.0034748
MFSD11	-0.0178732	0.003476
OTUD6B-AS	0.0428714	0.0034835
TCAF1	0.0037379	0.0034888
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BYSL	0.0353338	0.0035161
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CORO1C	0.0860954	0.0035248
SDHAF3	-0.0044292	0.0035249
TRAF3IP3	0.0500862	0.0035362
CCDC97	-0.0205766	0.0035411
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ZSCAN25	-0.0153525	0.0035556
PRMT3	-0.0350456	0.0035615
PFDN2	0.0911444	0.0035628
WDR60	-0.0120879	0.0035633
PIK3CD	-0.0263299	0.0035638
ZNF91	-0.0824884	0.0035678
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KMT2B	0.0385843	0.0036015
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JRKL	-0.016098	0.0036089
LZIC	0.019761	0.0036096
ZNF737	-0.1128802	0.0036277
CHUK	-0.0206172	0.003634
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HAUS1	-0.019449	0.0036422
RNF34	-0.0057928	0.0036455
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SERPINB6	0.1236842	0.0036583



IDH3A	0.0185656	0.0036755
PSTPIP1	0.068796	0.0036766
SCRN2	0.0673604	0.0036907
ZNF408	-0.0042102	0.0036937
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SETDB2	-0.1089228	0.003698
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CORO1A	0.1417466	0.0037542
TMED3	0.0486797	0.0037962
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IRF7	-0.0039417	0.0038529
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ATXN7L1	-0.0234306	0.0038656
HMGN4	0.030926	0.0038811
WDR61	-0.0718529	0.0038892
SCO1	-0.0386605	0.0038954
TASOR	-0.022943	0.0039025
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SNX2	0.0623852	0.0039106
LINC00963	-0.0223797	0.0039129
RAB13	0.2074413	0.0039434
CCNB1	0.0279634	0.0039442
ACSL1	0.0168954	0.0039557
CLTC	-0.0407563	0.0039568
HIKESHI	0.0077462	0.0039755
DOK3	0.0179247	0.0039814
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UBAP1	0.0102697	0.0040186
PPWD1	-0.0786485	0.0040269
CATSPERG	-0.0603312	0.0040298
SELENOF	-0.0847316	0.0040359
NEMP1	-0.0366723	0.0040378
USP34	-0.1037127	0.0040409
ZNF331	0.033514	0.004043
HIST1H1B	0.186698	0.0040489
PANK2	-0.0191439	0.0040514
ANKLE2	-0.0362117	0.0040592

CES2	0.0088581	0.0040624
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AL138963.4	-0.0420788	0.0040946
AC015802.6	-0.0552768	0.0040988
SERPINF2	-0.0330621	0.0041083
NT5DC1	-0.0505233	0.0041435
CASC3	-0.0191234	0.0041442
TNPO3	-0.0054329	0.0041634
POC1B	0.0532332	0.0041654
FUCA2	0.0457822	0.0041664
NOL9	-0.0229339	0.0041704
TBC1D7	-0.0126482	0.004172
DACH1	-0.0364983	0.0041736
PRDX1	0.236709	0.0041742
ZNF337	0.0021237	0.0041747
SCMH1	-0.0089485	0.0041762
ARSA	0.0044024	0.004177
TNKS	-0.0113538	0.0041783
INTS12	-0.0364181	0.0041786
MYO19	0.0012683	0.0041819
USE1	0.030174	0.0041819
NCBP2	-0.1001079	0.0041864
CSRP1	-0.0718829	0.0041917
TTC14	-0.1376569	0.0042108
LEMD2	-0.0040163	0.0042119
TPGS1	0.1051375	0.0042213
PTPN4	0.0079141	0.0042532
TLL12	0.002899	0.0042635
MALAT1	-0.1697526	0.0042662
INPP5K	-0.0220052	0.0042728
GPKOW	-0.0153051	0.0043068
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ARPC1A	0.0197732	0.004352
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WDR92	0.0057907	0.0043537
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UBXN7	-0.0466019	0.0043638
PRPF8	-0.0308978	0.0043692
FLOT2	0.0341623	0.0043965
CYBC1	0.0053572	0.0044065
JADE3	0.0171499	0.0044243
CSGALNAC	-0.0751665	0.0044252
SNRPD1	0.1699756	0.004431
ZNF32	-0.0037014	0.004433
MTERF1	-0.0222588	0.0044514
SH3GL1	-0.055989	0.0044646
ETFRF1	0.0437128	0.0044646
PIP4P1	-0.0519534	0.0045008

VPS36	-0.0573451	0.0045009
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NSMCE2	0.0268872	0.0045277
WDR5	0.0091335	0.0045277
EFR3A	-0.0256213	0.0045303
USF2	-0.0971903	0.0045344
UBE2W	-0.0339358	0.0045429
ANKRD50	-0.0514767	0.0045513
ACTB	-0.1481549	0.0045546
CEP19	-0.0569668	0.0045703
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C6orf47	0.0004695	0.0045985
ZNF335	-0.0082428	0.0045985
CWF19L2	-0.0817772	0.0046163
C3orf62	-0.0184561	0.0046252
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ARHGAP1	-0.0263882	0.0046474
SELENOO	-0.0228155	0.0046508
FBL	-0.0035516	0.0046608
DEF6	-0.011059	0.004661
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USP47	0.0055791	0.0046841
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LIMK2	-0.0036045	0.0046955
SART1	-0.0287508	0.0046972
PPME1	0.0248339	0.004702
SLC25A20	-0.0334307	0.0047097
ASMTL	0.0150011	0.0047136
BOLA2	-0.0572389	0.0047314
TCTE3	-0.0132903	0.0047439
GPATCH3	-0.0181038	0.00476
SOS1	-0.0898852	0.0047627
FAM104B	0.0121347	0.0047706
RBAK	-0.0302644	0.0047934
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PDXK	0.0052865	0.0048066
TMEM230	-0.0421552	0.0048175
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ANKIB1	-0.0457227	0.0048547
HDHD2	-0.0172543	0.0048569
NUP37	0.0367721	0.0048579
TBP	-0.0419933	0.0048621
ARL3	0.0093442	0.0048692
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KATNA1	0.0260384	0.0048862
BRD4	-0.022946	0.0048976
SFXN4	0.0621763	0.0049015
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GPR107	-0.0207519	0.0049331
ELMOD3	-0.0253089	0.0049361
ARRDC5	-0.0326551	0.0049461
PUM2	-0.1157959	0.0049542
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PHF12	-0.0421119	0.0049673
NDFIP1	0.1164877	0.004971
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GIPC1	0.0349804	0.0049873
IQCG	-0.0339642	0.0049875
TEX2	-0.035234	0.0049977
KDSR	-0.0168567	0.0050432
MOSPD3	-0.0352866	0.0050465
TSGA10	-0.0638898	0.0050479
POLM	0.0073641	0.0050497
KARS	0.0272531	0.0050852
YRDC	0.0883367	0.0050919
PCBP2-OT1	-0.0291383	0.0050921
MGLL	-0.034137	0.005104
MARC1	-0.0386804	0.0051326
INTS6	0.0910633	0.0051434
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MAPK9	-0.0699862	0.005231
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PARP9	0.0573651	0.005299
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RFWD3	-0.0048991	0.0054833
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KHNYN	-0.0172259	0.005511
CKAP2	-0.1342044	0.0055217
ABHD4	0.0144039	0.0055355
ILF3	0.029109	0.0055369
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ZNF436-AS1	-0.0120533	0.0055702
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ARRB2	0.138179	0.0056001
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FIP1L1	0.0148498	0.0056151
AGAP2	0.0214129	0.0056198
METRN	0.0712665	0.0056555
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GPR135	-0.0015682	0.0057014
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CLPX	-0.0052482	0.0057141
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ARMCX6	0.0742472	0.0057428
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NCOR2	-0.0555507	0.0057781
EWSR1	-0.0794687	0.0057805
GBA	-0.0067113	0.0057854
PLEKHA8	-0.0359987	0.0057984
RPN2	0.1016278	0.0058062
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SAMD9	0.031658	0.0058244
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IFI6	0.0272914	0.0058619
SMAGP	-0.023688	0.0058744
PSME2	0.0059083	0.005875
GLMP	-0.0071723	0.0059113
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PELP1	0.002229	0.0059344
YEATS4	0.0525738	0.0059441
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SIN3A	-0.0578663	0.0059971
CTSG	0.1707443	0.0059972
COLGALT1	0.0075691	0.0060007
STARD4	-0.0208218	0.006022
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SDAD1	-0.0040109	0.0060571
RAP2B	-0.0491886	0.0060681
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REPS1	-0.0437267	0.0060933
VAMP4	-0.0204253	0.0060942

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ADRB2	-0.1011984	0.0061593
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CALU	0.0129522	0.0062075
RRAGA	-0.03736	0.0062663
TFPT	0.0449098	0.0062706
KIAA0930	-0.1088729	0.0062806
EXOC6	0.041726	0.0063147
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GDI2	-0.1752252	0.0063275
TACC1	0.0480598	0.0063328
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SKP2	-0.006121	0.0063525
SNHG4	-0.0192771	0.0063536
CSTF3	-0.0169082	0.0063562
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STYX	-0.0579047	0.0064901
LENG9	-0.0461044	0.0065152
NEMF	-0.0004177	0.006527
VPS35L	-0.0061534	0.0065339
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HEBP1	0.0067446	0.0065997
RTCA	-0.0192085	0.0066052
ANAPC5	-0.1438453	0.0066081
MIRLET7BH	-0.0354091	0.006617
LUC7L2	0.0326023	0.0066175
TRIM23	-0.0149384	0.0066182
UBE2G2	-0.0066382	0.0066238
FCF1	-0.0710965	0.0066309
APOBEC3D	-0.0347561	0.0066362
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CARD6	0.0059755	0.0066687

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COPB2	0.0378001	0.0067139
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RUNX1	-0.1122775	0.0067598
SCLT1	-0.0212722	0.0067673
IMMP2L	0.0312918	0.0067784
EHBP1L1	-0.0178044	0.0067834
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PPP1R7	0.0298199	0.0068044
EMSY	-0.0437226	0.0068064
MEF2D	0.0267954	0.0068532
C16orf86	0.0283934	0.0068685
ULK1	-0.0308586	0.0068977
DBF4	-0.0340202	0.0069027
UBL7-AS1	0.0241449	0.0069056
DIS3L2	0.0031117	0.0069445
TTC32	0.0126995	0.0069456
SEC24B	-0.0281596	0.0069461
SLC25A13	-0.0361681	0.007021
GOLGA8Q	-0.0192984	0.0070316
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CDK9	-0.0020137	0.0070367
SUPT3H	0.0131338	0.0070698
CXCL3	0.1767119	0.0070815
MUS81	-0.0402255	0.0070867
RC3H2	-0.0331358	0.0071122
RNF7	0.1353769	0.0071157
GLUD1	-0.0074762	0.0071492
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METTL8	0.0003275	0.0071614
RAD17	-0.0428165	0.0071614
USP32	0.0175669	0.0071782
TAB3	-0.0344808	0.0071858
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KDM3A	-0.0439932	0.0071951
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DPY30	0.0577973	0.0072191
LINC02384	0.0201595	0.0072213
EIPR1	0.0096179	0.0072217

PI4KB	0.0091488	0.0072353
TMEM101	-0.0058673	0.0072373
CPSF2	-0.019582	0.0072656
IVNS1ABP	-0.0274671	0.0073538
CMAS	0.0655675	0.0073571
MDN1	-0.0220168	0.0073586
ISYNA1	0.0087753	0.0074055
MT1X	0.0252066	0.0074062
AC027682.4	-0.036152	0.007419
ANP32B	0.1994004	0.0074346
DDR GK1	0.0460217	0.0074769
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CDK2	0.0164259	0.0075019
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ACTN4	0.0281489	0.0075154
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AZIN1	-0.0817704	0.0075205
YPEL2	0.0098073	0.0075601
MZF1	0.0202158	0.0075919
SOX18	0.0839225	0.0075934
UBE2R2	0.0104275	0.0075999
TMF1	0.1602076	0.0076208
MAP3K1	-0.0364557	0.0076303
LIG3	-0.0401813	0.0076377
NDUFB3	0.0407286	0.0076424
TANK	-0.0825059	0.0076896
MARCH8	0.0365991	0.0077015
DHX37	-0.0500452	0.0077042
ATF4	0.0764802	0.0077104
TIMM8A	0.0555485	0.0077603
SCARB2	0.0176925	0.0077872
WDR45	0.0079912	0.0077941
GNPNAT1	-0.0009861	0.0077965
ERO1A	-0.0420444	0.0078365
WBP1L	-0.0302921	0.0078409
CCDC71L	0.0093913	0.0078725
AKIRIN2	0.0586698	0.0078828
ZNF100	-0.0334532	0.007884
COPS2	0.0034816	0.0079344
COMTD1	0.058204	0.0079372
MTHFD2	-0.0173888	0.0079534
HARS	-0.0134933	0.0079605
TRAF3IP2-A	-0.0073423	0.0079621
SWSAP1	-0.0056067	0.0079699
CA5B	-0.0345283	0.0079818
CHFR	-0.092761	0.0079952
ANKRD36	-0.0935903	0.0079999
ATN1	0.0026389	0.0080034
TOR1AIP1	-0.1015123	0.0080119
ZNF397	-0.0563172	0.0080122



SETX	0.0487774	0.0080225
CDC5L	0.0645203	0.0080271
LINC00665	0.008355	0.0080298
OSBPL11	-0.0169762	0.0080348
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ATL2	-0.0739788	0.0081463
RPS6KB2	0.0227367	0.00816
DDX10	-0.0064377	0.0081741
PLSCR1	-0.0204969	0.0081885
CPNE1	-0.0137894	0.0081897
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PRPF18	-0.0420928	0.0081997
PIDD1	0.0167235	0.0082238
SLC35A4	0.0169792	0.0082238
PER1	0.0459347	0.0082376
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CPNE3	0.0894184	0.0082817
BAX	0.0276241	0.0082877
SHC1	0.0144772	0.0083327
FAM222B	0.0221823	0.0083402
ASXL2	0.0001101	0.0083821
TGFBRAP1	0.0242597	0.0084117
NUFIP1	0.0307898	0.0084491
CDK5RAP3	0.0108961	0.0084803
IQCH-AS1	-0.0485664	0.0085005
SLC25A30	-0.0291952	0.0085083
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MTRF1	-0.0343613	0.0085846
ZNF419	0.0022418	0.0085964
PDE12	0.0283041	0.0085971
POLR2J	0.0114853	0.0086095
TAX1BP1	-0.1955695	0.0086123
ANGEL2	-0.0559351	0.0086184
IFNAR1	-0.0611641	0.0086231
DEFB1	-0.0635314	0.0086291
SNHG21	-0.0247341	0.0086316
ACTR10	-0.0415874	0.008632
AC025171.3	-0.0107003	0.0086358
MDM2	-0.0356043	0.0086683
GRIPAP1	0.0035351	0.0086812
LRRC34	-0.0001135	0.0086821
USP11	-0.0230761	0.0087109
ZNF850	-0.0059444	0.0087477
DECR1	0.0449304	0.008755
SBNO2	-0.029346	0.0087779
S100A8	0.0935626	0.0087782

ARHGAP22	0.1355841	0.0087843
ATP1A1	-0.0425603	0.0088031
NCK2	0.0316782	0.0088075
UBE2K	-0.088457	0.0088169
MEIS1	-0.0845	0.0088253
RBM42	-0.0387011	0.0088316
GLTP	-0.0054867	0.0088443
SERPINB9	0.1047199	0.0088471
TEP1	0.004153	0.0088836
LRSAM1	0.017529	0.0088876
TFRC	-0.0419953	0.008945
AGPS	0.0023818	0.0089458
CHAF1A	0.0657089	0.0089471
APH1A	-0.0204166	0.0089616
AAMDC	0.0259594	0.0089761
NDUFA5	-0.0720385	0.0089803
TERF2	0.0167403	0.0089827
UBA5	0.0155049	0.0089847
TYW3	0.0877791	0.0089885
AP003068.2	-0.0435502	0.0089938
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MAP4K5	0.0210591	0.0090084
ST3GAL3	0.0146981	0.0090649
USP21	-0.0128456	0.0090689
DENND4B	-0.0395359	0.0090798
IP6K1	0.0415431	0.0091253
ZNF557	-0.004961	0.0091265
TM2D1	-0.0946078	0.0091277
ARHGEF19	-0.0293428	0.0091356
GAS6-AS1	-0.0337218	0.0091653
SEPTIN2	-0.1127277	0.0092013
CDC40	0.0033614	0.0092286
DDHD1	-0.0448417	0.0092369
CFAP44	-0.0170762	0.009247
DCP1B	0.0041904	0.0092509
MRPS15	0.0444346	0.0092569
AC074117.1	-0.0299649	0.0092632
NR1H2	0.0231947	0.0092794
GSTCD	-0.021683	0.0093055
PTGDS	0.4304982	0.0093114
ZNF324B	0.0040178	0.0093196
TELO2	-0.0004942	0.0093235
AC005332.3	-0.0248866	0.0093379
OSER1-DT	0.0139906	0.0093695
MIIP	-0.0098451	0.0093762
HSD17B12	-0.0925272	0.0094046
SF3B2	0.0345258	0.0094216
CYCS	0.0494453	0.0094278
ZNF804A	-0.0492301	0.009433
P2RX1	-0.0405025	0.0094519

COIL	0.0380133	0.0094538
MKS1	0.0067049	0.0094795
SOCS5	-0.0191296	0.0094987
SBNO1-AS1	0.1039365	0.0095004
INTS13	0.0813763	0.0095037
SDE2	0.0710902	0.0095295
FBXL18	-0.0424035	0.0095416
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C18orf32	-0.1144877	0.0096024
TMX2	0.0199598	0.0096044
HEXB	0.0206473	0.0096069
PDIA3	-0.0752115	0.0096384
TXNL4A	0.0592177	0.0096508
VMA21	-0.0021077	0.009653
IL10RB	-0.0298985	0.0096599
HPF1	0.0737675	0.0096724
MARCH2	-0.0388039	0.0097114
PIGL	-0.0272766	0.0097233
THAP2	-0.0051903	0.0097559
VPS35	0.0033684	0.0097762
GYG1	0.0210422	0.0097763
PSMB7	0.0916695	0.0097894
SH3PXD2A	-0.0389962	0.0097942
CEP192	-0.0373897	0.0098038
AGXT	0.1644024	0.009816
LEPROT	0.0085371	0.009824
CIAO2A	-0.0158668	0.0098501
ABCE1	0.1278321	0.0098556
ZNF544	-0.0035048	0.0098782
UBE2A	-1.619E-05	0.0098984
BECN1	0.0098387	0.0099107
RFC3	0.0314532	0.0099463
BTBD1	-0.0285667	0.0099476
DCTN6	0.0165791	0.0099635
NANOS3	-0.0301725	0.0100275
KIAA1958	-0.0804564	0.0100288
AC018638.7	-0.0177366	0.010042
SAMSN1	-0.1164468	0.0100752
SNRNP48	-0.0521751	0.0100819
NBEAL1	-0.0545083	0.0100911
AP1G2	-0.0184855	0.0101245
KLHL6	-0.0121055	0.0101357
ZBED1	-0.0538057	0.0101661
RBMXL1	-0.0196044	0.0101801
RTF2	0.045123	0.0102096
PHRF1	-0.0157946	0.0102096
DYNC1LI2	-0.0296599	0.0102258
FUZ	0.0690933	0.0102274
ZNF468	-0.0181972	0.0102379

URGCP	0.0037988	0.0102391
MFSD12	-0.0091219	0.01025
ANKS1A	-0.0024775	0.0102554
ZC3H4	-0.0483914	0.0102605
TMEM19	-0.0342171	0.0102767
RFK	0.0324963	0.0102961
UIMC1	-0.0430316	0.0103206
IFI44	0.0817168	0.0103251
ZNHIT6	-0.0218555	0.0103313
PRR5	0.0643337	0.0103343
UBE2T	0.0267978	0.0103618
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EPN1	0.0392015	0.0103767
FTSJ3	0.0222009	0.0103896
GLRX	0.1229757	0.0104419
AC073896.2	-0.0222412	0.0104439
DCTN2	0.0434936	0.0104654
XPO7	-0.0642403	0.0104896
METTTL23	-0.0106598	0.0104972
RNF115	-0.0263214	0.0105126
ATIC	-0.0162074	0.0105366
SLIRP	-0.02898	0.0105927
GOSR2	-0.0022672	0.010598
B9D2	0.0285626	0.0106136
HDAC8	-0.0689934	0.0106545
MARCH6	-0.0584584	0.0106712
ZNF92	-0.0150569	0.0106721
KPNA6	-0.0229158	0.010677
NDUFS6	0.115716	0.0107413
SIGMAR1	0.0045279	0.0107671
KLHL2	0.0177774	0.0107733
TUG1	0.0007025	0.0107919
BTN3A1	0.0047663	0.0108418
STAG2	0.0167601	0.0108557
CWC27	0.070174	0.010901
ZNF16	-0.016291	0.0109114
PARP8	0.0013674	0.0109344
ZNF805	0.004289	0.0109423
PRKAG2	0.0138021	0.0109533
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GABARAPL2	-0.07787	0.0109922
CLIC2	0.0404574	0.0110047
ALKBH8	0.029431	0.0110138
KLHL18	0.0715088	0.0110667
MICAL3	-0.0021597	0.0110825
CHD8	-0.0457636	0.0110865
NAMPT	0.0408486	0.0111023
HERC4	-0.0899352	0.0111042
SCARF1	0.0453125	0.0111346
LCOR	-0.0214139	0.0112363

KANK2	0.0552974	0.0112702
HACD4	0.1463926	0.0112758
LTBP4	-0.0118839	0.011281
AKAP8L	-0.0291954	0.0112856
ADNP	-0.0127559	0.0112884
RFXAP	0.0405148	0.0113402
LHPP	-0.0043615	0.0113437
JPT1	0.0243933	0.011344
ZNF800	0.0368292	0.0113877
WAC	-0.0343584	0.0113904
ECSIT	0.023206	0.0114659
LINC00539	-0.0137166	0.0114913
TRIM5	-0.0239832	0.0115174
ACO1	-0.0312023	0.0115536
FKBP4	0.1034684	0.0115861
GSKIP	-0.0133567	0.0115907
ETF1	0.0419926	0.0116269
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FAHD1	0.0173859	0.0116454
ZNF664	-0.0015338	0.0116703
LINC00641	-0.038211	0.0116882
ATG2A	-0.0054421	0.0117087
SLC25A28	0.0651475	0.0117138
CDC42EP3	-0.0373032	0.011717
GNAQ	-0.068545	0.0117448
RHBDF1	0.0536494	0.0117636
SIAH2	0.0687269	0.0117948
PER2	0.0039503	0.0118052
STRADB	0.0153194	0.0118061
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NDUFAF1	0.0155746	0.0118375
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ASB16-AS1	-0.0293269	0.0119605
SLC10A3	-0.0287378	0.0119998
MIR181A1HC	-0.0221536	0.0120066
TMED7	-0.0216629	0.0120598
CCNB1IP1	-0.0654011	0.0120776
CARS	-0.0277885	0.0120907
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VEZT	0.0134616	0.0121006
BCL2L12	0.0226882	0.012145
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MED16	0.0215108	0.0122374
BOLA1	0.0411445	0.0122522
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HMGCR	-0.0748134	0.0123118
ZFAND3	-0.0919299	0.0123175

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BAZ1B	-0.0085925	0.0124003
PHF14	-0.0775774	0.0124208
C16orf91	0.0190306	0.0125319
NEIL2	0.022971	0.0125353
NUDCD3	-0.0304368	0.0125445
RAB7B	-0.0563188	0.0125813
ZNHIT1	-0.0293256	0.0125933
ATRN	-0.040257	0.0126722
S100PBP	-0.065266	0.0127054
PLPP5	0.034564	0.012709
TNPO1	-0.0888277	0.012715
RETREG3	-0.0285415	0.0127787
ZNF35	-0.0007744	0.0127882
ARAF	-0.0261888	0.0128546
NUP188	-0.0184975	0.0128646
WASHC2A	-0.1202095	0.0128702
ANKRD16	0.0411512	0.0129107
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STX12	0.009438	0.0129612
ITGAV	-0.0390861	0.0129613
DGKZ	-0.0625043	0.0129986
LYSMD3	-0.0605999	0.0130345
DNASE1	-0.0534853	0.0130347
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ZNF395	-0.0149461	0.0130786
TRIM21	-0.0153619	0.01309
MAVS	0.0058555	0.0131121
CCNL2	-0.0400646	0.0131409
TRAF6	0.0005854	0.0131619
MROH1	-0.0308894	0.0131721
RGS14	0.0264519	0.0131737
RNF114	-0.0744083	0.0131774
LRRC8C-DT	0.0259862	0.0131918
TMEM170B	-0.0656851	0.0132005
RCOR3	-0.098383	0.0132057
RALY	0.0488704	0.0132114
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SMG6	-0.0190138	0.0132681
PAXX	0.0247085	0.0132705
WWC3	-0.0542602	0.0132756
HDGF	-0.1104308	0.0132804
PAK1	0.1230328	0.0133091
NTMT1	0.0005978	0.0133492
ASH2L	-0.0118539	0.0133512
SNAP47	0.0529158	0.0133518
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THUMPD2	-0.0509254	0.0134084
ANKRA2	-0.066641	0.0134122
CTCF	0.0289493	0.0134162
COX20	-0.0609629	0.0134238
XRN1	-0.0829954	0.0134742
ZNF669	-0.0219833	0.0135098
IFIH1	-0.0353456	0.0135751
SGSM3	0.0136585	0.0135843
AP3D1	-0.0268478	0.0135888
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GPRC5D-AS	0.0049811	0.0137438
GTDC1	-0.0255887	0.0137554
KIN	0.0454881	0.0137863
RSAD1	-0.0160805	0.0138052
CAPN10	-0.0126153	0.0138269
MTM1	-0.0401	0.0138277
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DYNLRB1	-0.0788952	0.0138611
RUNX2	0.0078254	0.0139083
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SMCHD1	-0.1181188	0.013985
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SLC12A6	-0.1148799	0.0140558
MCRS1	-0.0265968	0.0140651
SUPT16H	0.0668886	0.0140871
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BUD13	-0.0141087	0.0140975
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AP000873.2	0.0230566	0.0141917
AC243960.1	0.0941316	0.0141932
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ACTA2	0.0942569	0.0142297
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NMI	-0.0441753	0.0143269
ZNF268	-0.0353403	0.0143518
NABP2	0.0184247	0.014379
MACROD1	0.0326547	0.0143822
EIF2B4	-0.0385587	0.0144306
C20orf194	-0.0122451	0.0144474
C10orf95	-0.0528597	0.0144627
PHAX	0.0170386	0.0145554
GANC	-0.019135	0.0145558
TTC9C	-0.0345252	0.0145778
SMIM12	0.0007966	0.0145881
NOL10	0.0088776	0.0145909
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KIAA1191	-0.0366233	0.014731
POLR2K	-0.0629166	0.0147978
XIAP	-0.0636241	0.0148143
MRPS36	-0.0346004	0.0148358
MLYCD	0.0020139	0.0148381
TPST2	0.0630102	0.0148453
OSBPL1A	0.0404169	0.0148802
INPP5D	-0.0780375	0.0148887
PSMB8-AS1	0.0923506	0.0149469
FBXO34	-0.0058274	0.0149682
SZRD1	0.002638	0.0150042
CRK	-0.0401724	0.0150158
ATPAF2	-0.0147302	0.0150401
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COX11	0.0047469	0.0151246
INPPL1	-0.0374219	0.0151369
NEU1	0.0501272	0.0151502
LGALS3BP	0.1271434	0.0151584
GTF3C5	0.0153775	0.0151818
STK11IP	0.0274342	0.0152088
SQLE	-0.039004	0.0152441
ERO1B	-0.0606174	0.0152444
VCL	0.1321305	0.0152586
SDCBP	-0.0573946	0.0152835
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RTN2	0.0537479	0.0153629
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MIS12	-0.0135092	0.0154306
CBR4	-0.0500127	0.0154377
NIP7	0.0589339	0.0154384
TOGARAM1	0.0114368	0.0154616
TATDN2	-0.020439	0.0154653
WSB2	-0.017835	0.0154763
CHORDC1	0.014901	0.0155177
APOL6	0.0267201	0.0155293
HNRNPF	0.0457526	0.0155311
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SMCR5	-0.0296989	0.015689
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MTO1	-0.0427548	0.0157406
SNHG10	0.0264563	0.015938
CFP	0.0724491	0.0160449
PKN1	-0.0177471	0.0161407
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TMC8	-0.0253955	0.0162991
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CDK16	-0.0148713	0.0166179
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TAOK3	-0.1205775	0.0167346
RUVBL1	0.0918015	0.0168188
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ACYP1	0.0289943	0.0168683
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GTF2IRD1	-0.0198262	0.0169444
DNM2	-0.0456325	0.0170078
ABCB10	-0.0205032	0.0170084
LINC02256	-0.065991	0.0170264
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DNAJC7	0.0745124	0.0171122
NAP1L4	-0.023985	0.0171288
CANX	-0.0999028	0.017153
POT1	-0.0365388	0.0171571
ARL11	-0.0212611	0.0171713
PABPC4	-0.0578745	0.0171756
NET1	-0.0073583	0.017185
GGA1	0.0009844	0.0172299
ALKBH2	0.018407	0.0172947
GCAT	0.0422051	0.0173119
SUOX	-0.0155478	0.0173674
SHMT2	0.0306494	0.0173924
TMEM39A	0.0008317	0.0174345
PTGS1	-0.0579703	0.0174441
ATP5MG	-0.1386326	0.0174463
CCNYL1	-0.044974	0.0174662
CCDC138	0.0078604	0.0174674
ZNF791	-0.0452099	0.0175084
MOB4	-0.030013	0.0175607
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KAT6A	-0.0692203	0.0176862
PPP1R11	-0.040203	0.0176902
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NAA38	0.0650387	0.017792
PA2G4	0.1803334	0.0177975
BCAP31	0.110998	0.0178441
CWF19L1	-0.0430515	0.0179282
LINC00205	-0.0160993	0.0179339
SLC25A12	0.0112962	0.017977

TNFAIP1	-0.014691	0.0179875
KAT2A	0.0003838	0.0179896
SNX11	-0.0286356	0.018001
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VPS37B	0.0514601	0.0180151
AURKAIP1	0.1035871	0.0180603
C12orf73	0.0661739	0.0180615
CSK	0.0165805	0.0180975
PTMA	-0.1059171	0.0182126
PRPF39	-0.0076349	0.0182149
LUC7L	-0.0480731	0.0182404
RAB14	-0.0312208	0.0182567
GARS	0.0448978	0.0182654
CCDC57	0.0703051	0.0184098
DUT	0.2219765	0.0184357
F11R	-0.0502068	0.0184448
CEP152	-0.0356572	0.0185432
IL1RAP	0.0942662	0.0186654
ZNF257	-0.0045737	0.0186838
ORMDL2	0.0559374	0.0187141
RNF135	0.0008525	0.018835
IK	0.0072523	0.0188826
SHLD1	0.0039744	0.0189199
ITPR1	-0.0668363	0.0189269
MCCC2	-0.0001341	0.0189316
TNPO2	-0.0245001	0.0189347
RPS6KA5	-0.0548431	0.019015
IRF8	-0.1238935	0.0190192
SUMF2	-0.0935097	0.0190687
TSC22D3	0.1531634	0.0191085
LACTB	-0.0897914	0.0192181
ELOC	-0.0446185	0.0192271
TOR1B	-0.0127658	0.0192521
PSMD13	0.09067	0.0192551
ZNF212	-0.0092557	0.0192553
PLAU	-0.0086123	0.0192941
CPOX	-0.0023656	0.019297
GPANK1	0.0119733	0.0193688
RNF187	0.0196805	0.0193887
NUBP2	-0.0040181	0.0193895
RABEP2	-0.0080925	0.0194655
ACAD10	-0.0138265	0.0194754
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FBXL3	-0.0096193	0.0213844
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SYS1	0.0066594	0.0215085
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ADCY3	-0.0171441	0.0456369
TBCD	0.0287956	0.0457266
CCDC122	-0.0391637	0.0457288
PPIL1	0.0040585	0.0457298
MVD	0.0109798	0.0458084
TBCE	-0.026502	0.0458298
VPS26B	0.0124741	0.0458589
KBTBD6	0.0021311	0.0459432
RCN1	0.0333915	0.0459506
ZNF235	-0.0141367	0.0459865
ZNF460	-0.0236532	0.0460478
MED9	-0.0148532	0.0462743
ZNF345	-0.0378236	0.0462962
GTF2E1	0.0250421	0.0464106
WDR91	0.0026962	0.0466341
USP24	-0.0551543	0.046904
C1orf35	0.0163075	0.0469349
UPRT	-8.514E-05	0.046975
ALG10	-0.0224213	0.047396
RCHY1	0.0276622	0.0475138
DPM1	-0.0078867	0.0475657
IQCK	-0.0041263	0.0475665
IFI35	0.0910719	0.0477633
TNFSF13	0.0255451	0.0478122
TCF25	-0.0221687	0.0479243
SLC9A6	-0.0114936	0.0479582
PSMD11	0.0159322	0.0481471
SEC24A	-0.0063539	0.0482595
FASTKD1	-0.041809	0.0484096
CYSTM1	-0.003483	0.0485776
FASTK	0.0401186	0.04861
LAMB2	0.0426875	0.0486795
STYXL1	0.0347617	0.0487082
ALDH18A1	0.0355599	0.0487707
SSR4	0.1470692	0.0488823
DHX32	-0.0072327	0.0488834
CDKN1B	0.0458696	0.0490451
AC020915.2	-0.0199813	0.0491102
RPIA	0.0022792	0.049141
UCK1	0.0071356	0.0491411
FOXJ3	0.0194639	0.0493773
TOLLIP	-0.0173513	0.0494442
AMMECR1L	-0.0248889	0.0495621
PANX2	-0.0074166	0.0495805
ZNF615	-0.0283185	0.0496729
MIB2	0.0206846	0.0496749
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HNRNPLL	-0.0576931	0.0497163
REXO4	-0.0701913	0.0497215
PEA15	-0.019748	0.0497398

C17orf49	-0.1732159	0.0498214
RAB21	-0.0347754	0.0500621
TBC1D32	-0.0157433	0.0501156
ULK4	-0.0151916	0.0501358
TOP3B	-0.033027	0.0501709
FBXW8	-0.0041638	0.0503684
SLFN11	0.0179	0.0505563
TMEM209	-0.0199121	0.0508504
COMMD10	0.0128573	0.0509774
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R3HDM2	-0.1384948	0.0511388
MSH2	0.0744614	0.0513669
BCAT2	0.0163424	0.0513995
ERCC5	0.0039701	0.0514325
EIF2S1	0.0324428	0.0515492
BOLA3	0.0282185	0.0516512
SAE1	-0.0163704	0.0517108
VAV1	0.0428707	0.0517156
NUP62	-0.021322	0.0517786
CBY1	0.0144713	0.0518047
EEFSEC	0.0015606	0.051905
BRPF1	-0.0115076	0.0519716
URB2	0.0038567	0.0520853
HSCB	-0.0353249	0.0522114
C1GALT1C1	-0.0223051	0.0523937
ANAPC16	-0.0512608	0.0524127
MARF1	-0.0543732	0.0525256
GFPT1	-0.02089	0.0526858
MAN2A1	0.0058674	0.0527316
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DDAH2	0.0224983	0.0528769
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TRGC1	0.0093571	0.0534283
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DCAF7	-0.0699212	0.0541691
METTL16	0.0067147	0.054383

PPP2CA	-0.029037	0.054515
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FBXO7	-0.0637865	0.054658
WWP1	-0.016703	0.0547571
PARVB	0.0859283	0.0547586
VPS28	0.1369366	0.05481
HIST1H1E	-0.1301623	0.0548422
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ACAP1	0.1694765	0.0549268
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RRP1B	0.0722789	0.0554302
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MCM9	-0.0273199	0.0554727
CEP57	0.0424624	0.0556412
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COA5	0.0208955	0.0558209
PHKA2	-0.0563065	0.0558724
TSC22D2	-0.0762322	0.0558757
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DOP1B	-0.0531893	0.0563674
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CBLB	0.0106346	0.0577315
GMDS-DT	-0.0181851	0.0577508
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TOMM40L	0.0095949	0.05787
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CLUAP1	0.0237371	0.057901
TAF12	-0.0002134	0.0579587
SKIV2L	-0.0085069	0.0580625
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PUS1	0.010771	0.0598415
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MAEA	-0.0068091	0.0601643
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HS2ST1	0.0180102	0.0609266
G3BP2	-0.0018784	0.0610345
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MMACHC	-0.0269021	0.0611645
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H1FO	0.0829934	0.061242
GALNS	0.0259754	0.0613028
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AKAP7	0.0643911	0.061658
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FAM219B	-0.0253383	0.0622714
TWISTNB	0.1927213	0.0623785
HEXA	0.045948	0.0625429
SLC10A7	-0.0217129	0.0626246
PIGG	-0.0117506	0.0626476
CCDC91	-0.0055887	0.062672
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BCKDHA	-0.0032853	0.0629358

NDUFS1	-0.1037589	0.062936
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LRRC37B	-0.0227558	0.063357
REPS2	0.0106091	0.0634228
C6orf120	0.0544881	0.0634237
RAB28	-0.0212716	0.0634302
SIDT2	-0.0146988	0.0634625
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AP5Z1	-0.0277873	0.0634815
CLPB	-0.0167758	0.0635151
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RTL6	-0.0331219	0.0641945
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GPATCH2	0.0073659	0.0644886
WDR25	-0.0159207	0.0646777
DNAAF2	0.0377055	0.0647029
BCAT1	0.0932074	0.0647184
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PUS10	-0.0211089	0.064737
NFATC2	0.0580596	0.0647613
TM2D2	-0.0238846	0.0648742
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PIWIL4	-0.05498	0.065141
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HDAC4	-0.0089108	0.0681328
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ICE2	-0.0248307	0.0725914
MAPK12	-0.0196228	0.0727228
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MTF1	-0.0083618	0.0738941
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GON7	-0.0216144	0.07734
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NOL11	0.0053677	0.0806759
BORCS7	0.0553871	0.0806848
SCYL3	-0.0351175	0.0808493
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GEN1	-0.0476237	0.0810442
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CTSO	-0.0340401	0.0815459
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ARID5B	-0.0607673	0.0818305
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IGHMBP2	0.015234	0.0823412
ACP6	-0.0048928	0.0823878
WWP2	-0.0261422	0.082404
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TCTN1	0.0063264	0.0827261
MICOS13	0.1186226	0.0828913
DNTTIP1	0.0573573	0.0829402
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LINC01122	0.0002377	0.083349
AC092279.1	-0.03255	0.0836248
ZNF740	0.002707	0.0838412
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METTL6	-0.0050722	0.0840539
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EI24	0.0126174	0.0841605
TRPV2	0.0675799	0.0844291
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STX3	0.0551169	0.0854737
PDP2	-0.0140248	0.0855837
IL16	0.0539897	0.0859552
MTA1	-0.0163092	0.0860486
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LRRC8D	-0.0188081	0.0873994
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UBE2J1	0.0818491	0.0877536
N4BP2L2-IT1	-0.0284571	0.0877586
CXorf21	-0.0392569	0.087965
LEPROTL1	0.0329758	0.0880392
ACTR3C	-0.0236606	0.0882284
AP1S1	0.0680283	0.0883273
SERAC1	-0.0398515	0.0884215
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EEA1	-0.0165094	0.0885618
SRSF4	0.0346665	0.0885628
FBXL19	-0.0131361	0.0886744
AP4S1	0.0391467	0.0887642
EHD4	0.046745	0.0887647
ZNF605	-0.0572737	0.0889111
GATC	-0.041236	0.0889775
KHDRBS1	0.0339681	0.0889853
DDX55	-0.0491116	0.0891991
CYFIP1	0.0228069	0.0895127
C5orf63	-0.015183	0.0895812
ENOSF1	0.0490436	0.089741
SLC38A6	-0.0221684	0.0900766
SUGT1	0.0403517	0.0901464
ZNF790	-0.0052393	0.090274
RIC1	-0.0559198	0.090451
TASP1	0.0037743	0.0904988
ELOF1	0.0057422	0.0905003
CLASRP	0.0036646	0.0905302
SLC26A1	-0.0541098	0.0906924
GGCT	0.0512043	0.090834
SIRT5	-0.0210022	0.0908791
CTNNA1	-0.0435084	0.0909202
FBXO32	-0.038389	0.0910402
GCSH	0.0297741	0.0910957
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TRAF7	-0.0227688	0.0917583
NDUFS2	0.0182002	0.0919626
DNAJA3	-0.0044841	0.0919669
ZNF586	-0.0423461	0.0920598
SGF29	-0.0215195	0.092068
TMEM186	0.0354674	0.0921245
AC012306.2	-0.0236737	0.0921322
GRPEL1	-0.0381877	0.0923646
GPI	-0.056552	0.0925247
FH	0.0144944	0.0925728
PCCB	0.0070197	0.0931953
SNRNP70	0.0168985	0.0936091
AZIN1-AS1	-0.0077646	0.0936164

GGPS1	-0.0260998	0.0938166
PSMD10	-0.0022095	0.0944682
MRE11	-0.0100698	0.0947014
TRIM71	0.0722408	0.0947155
AKT1S1	0.0176512	0.0951938
TMCO3	-0.0538077	0.0954655
NAF1	-0.0420865	0.0954702
ADGRG3	0.0477152	0.0954922
TEFM	-0.0282157	0.0956726
MAP3K2-DT	-0.031434	0.0957447
ADAR	-0.0663769	0.0958339
LGALS9	-0.1151992	0.0958461
EXD3	0.0249642	0.0959772
MRM3	0.0208152	0.0961568
CEP170	0.0104249	0.0965839
SLC35B3	-0.0450903	0.0971349
INTS3	0.0058631	0.0973058
MALRD1	-0.0013325	0.0976837
TMEM220	0.0175248	0.0979566
COL9A2	-0.0227413	0.0984708
UBXN11	0.0329594	0.098789
IFNGR1	0.0339467	0.0988619
MRPS30	0.0030226	0.0988989
C12orf4	-0.0236468	0.0991054
AC104041.1	0.0202161	0.0991621
PPP1R37	-0.0217173	0.0996034
RBBP9	-0.0107719	0.0997981
TADA1	-0.0133099	0.0999216
MRPL45	-0.0231113	0.1000538
LPIN2	-0.0738912	0.1003662
TKFC	0.0133569	0.1004078
KLF16	-0.0209248	0.1004575
PBX2	-0.0351373	0.1005214
DAXX	0.0360831	0.1007942
SLC39A13	-0.007463	0.1011469
FECH	0.0190232	0.1012606
NUDT15	0.0082141	0.1014545
ZNF185	0.0844969	0.1015094
ZNF598	0.015161	0.1022121
MAP1LC3B	-0.0333469	0.1022746
CEP135	0.0256423	0.1023116
SIRT6	0.0049688	0.1027512
LINC01184	0.0310002	0.1030294
AC012358.3	-0.028845	0.1034785
DHRS4L2	-0.0045583	0.1035174
UNC93B1	0.1093223	0.103727
FEM1A	-0.0237223	0.1039219
NSUN4	-0.0020096	0.1042293
STAT3	0.0378029	0.1043628
GATA2-AS1	0.0446723	0.1044386

MPZ	-0.0387892	0.1045753
TTC28-AS1	-0.0414692	0.1048384
ERVK13-1	-0.0195742	0.1048553
MANEA-DT	0.0047885	0.1049375
HNRNPAB	0.1489196	0.1053942
AL135791.1	-0.0055826	0.1054498
MYLK-AS1	0.0117987	0.1054837
UBR7	-0.0036926	0.1056842
PIGU	0.0039534	0.1059418
CD34	0.1165508	0.1059605
MED11	0.026477	0.1063805
TXNRD2	0.004285	0.1064263
FBRSL1	-0.0196276	0.1071161
AC040977.1	-0.0164588	0.1071889
TRIM38	-0.0713702	0.107197
ANKRD42	-0.0160658	0.107587
GUCD1	-0.0730321	0.1077914
SSBP2	0.069207	0.1077916
MAP3K4	-0.0081169	0.1079042
ERICH1	0.0431516	0.1080693
USP16	0.0225174	0.1082969
DAD1	0.0814407	0.1087217
KCTD13	-0.0395966	0.1087807
MTPN	0.145491	0.1088689
PLEKHA2	-0.0727877	0.1094552
BICRAL	-0.0142159	0.1096497
DHDDS	-0.0070821	0.1097041
CIC	0.0187185	0.1098487
ZNF606	-0.0204666	0.1105648
FANCG	0.0160512	0.1105655
NEDD1	-0.0179402	0.1106355
GGNBP2	-0.0074768	0.1106661
PWWP2B	0.0203327	0.1110712
AL355488.1	-0.0265942	0.1110986
GTF3C4	-0.0103004	0.1112673
ZNF816	-0.0049098	0.111321
RAE1	0.0099674	0.111384
LIAS	-0.0046884	0.1114513
BTBD8	0.0041738	0.11156
SIGLEC6	-0.0645656	0.1116542
PPID	0.0383126	0.1117057
RAB20	0.0489342	0.111969
GCHFR	0.1048757	0.1121288
TMEM168	-0.0296852	0.1126935
ZNF644	-0.0197902	0.1129401
COPE	0.1309874	0.112968
MED29	0.020722	0.1130048
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MEN1	-0.0030621	0.1137587
HOTAIRM1	-0.1344475	0.1139328

KIF27	-0.0523019	0.1141121
ZNF133	-0.0008266	0.1142443
BBX	0.1203444	0.1143651
KRT10	0.0311963	0.1143873
AL080317.2	-0.0450452	0.1143908
TBPL1	0.0430014	0.1145736
SAP30L-AS1	-0.0215288	0.1151334
AC090114.2	-0.0136508	0.1156311
Z93241.1	0.0605113	0.1159176
TBL1XR1	-0.0051603	0.1159767
BCS1L	0.0117886	0.1162008
FAM193A	0.0074128	0.116209
THAP3	0.0207729	0.1164855
HNRNPL	-0.1212201	0.1164977
TFB1M	0.0065322	0.1165604
ZNF230	-0.0257507	0.1175591
MT2A	0.1223837	0.1175986
AGTPBP1	-0.0239867	0.1179947
SLC38A5	0.0265626	0.1180701
IFNAR2	0.0245953	0.1185523
CCDC51	0.0550961	0.1185643
RPS6KA3	-0.1113149	0.118994
ZNF573	-0.0040147	0.1195528
HPS4	-0.0097254	0.1196098
PDS5A	-0.0469483	0.1196491
TMEM44-AS	0.046749	0.1197732
TGFB1	0.0999329	0.1198286
L3MBTL1	-0.0129325	0.1201721
TMED1	0.0219695	0.1203446
GOPC	0.0871296	0.1206871
VPS13C	-0.1412858	0.1208638
BICD1	0.053091	0.1210055
B4GALT3	-0.0163	0.1216601
XPA	0.0163042	0.1217448
HACL1	-0.0226727	0.1219446
KRT18	0.0879118	0.1219768
PRPF38B	-0.077375	0.1220529
RAB22A	0.0229174	0.1221569
ZSCAN32	-0.0061904	0.1222852
TRMT10B	-0.0231226	0.1223748
DEPDC5	-0.0286359	0.1224423
TFAM	0.0906606	0.122463
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SH3BP5-AS1	-0.0159472	0.1226398
TMEM223	0.0780642	0.1227023
SUPT6H	0.028052	0.1230067
TRNAU1AP	0.0371724	0.1231549
DLGAP4	0.0358641	0.123243
REXO1	-0.0007721	0.1232928
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USP37	0.030041	0.1238287
RDH13	0.0081445	0.1243769
MMP19	-0.0237415	0.1246678
AC008982.2	-0.0180222	0.1247448
SLC9A7	0.027471	0.1248841
MUL1	-0.0082295	0.1251054
TP53BP1	-0.0034961	0.1253727
KATNBL1	-0.0442514	0.1254539
NCKAP5L	-0.00791	0.1257324
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ZNF347	-0.0132102	0.1262511
ZCCHC2	-0.0413834	0.1262908
PLEKHA5	-0.026373	0.1263217
FAM241A	0.0632459	0.1265137
IL2RG	0.1119042	0.1267176
TSEN54	0.0440394	0.1268061
PDE6B	-0.0009386	0.1268142
C6orf136	0.0002389	0.1270031
FAAP100	0.0074945	0.1271611
YAE1	-0.0003314	0.1272534
GPD2	-0.02726	0.1274178
MLEC	-0.0036445	0.127424
SNAPC2	0.0015319	0.12761
UBR5	-0.0523497	0.1278864
GTF2H1	0.002854	0.1281283
ZSWIM6	0.0228904	0.1281811
NAA10	0.0552968	0.1282712
TMEM156	-0.0264022	0.1284265
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RTTN	-0.0286669	0.1289883
ANKRD13C	0.0207242	0.1290384
HYAL2	0.0448119	0.1290478
RBM45	-0.0238632	0.1293534
AC008074.2	0.0091157	0.1295223
KLF7	-0.0194169	0.1295754
SUZ12	-0.0094595	0.1297514
KCTD20	-0.0422008	0.1299881
ARID1A	-0.0181275	0.13045
AC067852.2	0.0050307	0.1308266
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SNIP1	-0.024581	0.1310419
C11orf1	-0.0604262	0.1316997
MEAF6	0.036204	0.131835
PPTC7	-0.0024603	0.1319521
PRADC1	0.0013589	0.1319588
ERI2	-0.0283216	0.1323916
INO80C	-0.0107865	0.1329788
TLNRD1	0.0045514	0.1331451
PHLPP1	-0.0007623	0.1331662
IWS1	-0.0174648	0.1333385



SIMC1	-0.0195757	0.1333559
DYRK1A	-0.0346127	0.1333785
NKRF	0.0200251	0.1342856
FSD1L	-0.0043376	0.1346238
COQ2	0.0201123	0.1348047
IKBKG	-0.0017215	0.1352415
LRR1	-0.0072657	0.1354965
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CELF1	0.0145831	0.135762
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CSTB	-0.0172997	0.1361753
DLEU2	-0.0696519	0.1365844
ZNF93	-0.071575	0.1366944
RAD18	-0.0413037	0.1368258
IGF2BP2	0.0493593	0.137746
AL080276.2	-0.0329968	0.1378219
SYNJ2BP	-0.0442847	0.137862
ZC3H13	-0.0746873	0.1379441
GPALPP1	-0.0084422	0.1386281
IL17RC	0.0390884	0.1388745
LATS2	0.0748642	0.13907
RBM27	0.0699692	0.1392289
GATAD2A	-0.0095534	0.1401754
ZNF789	-0.0298754	0.1402694
SPRYD7	-0.0301712	0.1411898
SORD	0.0546672	0.1413981
BSCL2	-0.0189047	0.1416461
PPP2R5E	-0.0496029	0.1419072
PDCD2	0.0161363	0.1421382
NMNAT1	-0.002954	0.1421641
NPAT	-0.0096505	0.1422009
MEGF6	0.0082473	0.1422891
SNX30	-0.0522793	0.1424243
DDX50	-0.0391397	0.1426065
MKLN1	-0.0800032	0.1426837
BRF1	-0.0306558	0.1429935
NIT2	0.0393765	0.1431428
IL27RA	0.032654	0.1435427
ASB3	0.00433	0.1437789
DYRK3	0.0879609	0.1438252
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ALG9	-0.0026717	0.1462203
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KANK1	-0.031585	0.1474126
CIB1	-0.0910959	0.1474732
FURIN	-0.1146232	0.1478159
NDST2	-0.0224959	0.1479105
POLR3H	0.037766	0.1480064
AREG	-0.0273745	0.1480332
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ARSK	-0.020492	0.1485067
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BLOC1S1	0.0763383	0.1490958
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WIPF2	0.0034235	0.1510204
C10orf25	-0.0134467	0.1513099
NCEH1	-0.020965	0.1513563
OSBP	-0.0013427	0.1515553
WDR20	-0.0189622	0.1522356
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IGFBP2	0.1791427	0.1525988
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PPP2R5C	-0.0287552	0.1539725
CGAS	-0.1014202	0.1542904
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PSMC6	-0.0512298	0.1549131
MPLKIP	0.0332911	0.1549563
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SPECC1	-0.0265382	0.1564624
CDK2AP1	0.0596	0.1566309
MCMBP	-0.0536702	0.1566776
ZNF561-AS1	-0.0286759	0.1567787
PCIF1	-0.0419006	0.1569181
TAPBP	-0.0879785	0.1569903
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MAST4	0.083598	0.1573241
INTS6-AS1	-0.0158269	0.157922
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AL096803.2	-0.0197554	0.1587955
UBQLN2	-0.0366398	0.1588262
SLC12A2	-0.094977	0.159054
ERGIC2	-0.0273636	0.1591917
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TBL2	-0.0018224	0.1598541
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SIAH1	-0.0274019	0.1614185
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PMPCA	0.027143	0.1620452
IKBIP	-0.0211493	0.1620838
MINCR	-0.0663541	0.1622775
MTHFS	-0.046307	0.1624524
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CXorf40A	-0.0094846	0.1627155
ZSCAN9	0.0186482	0.1630955
TRIM24	-0.0603435	0.1630967
TEPSIN	-0.0178044	0.163234
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GTPBP4	0.0714302	0.1640309
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HTATIP2	-0.0003634	0.165376
PRAF2	0.0138055	0.1660075
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CLN8	0.05993	0.1668257
ZSWIM9	-0.002833	0.1669688
TRMT2A	0.0305292	0.1669844
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NRM	0.0637508	0.1679102
AC016747.1	0.0438234	0.1679434
SLC5A3	-0.014735	0.1680581
SRA1	-0.004838	0.1680708
PRKACA	-0.0111223	0.1681161
CAST	0.1337396	0.1682552
SNRNP35	0.0591471	0.1687557
SLC66A1	-0.0023691	0.1688216
MED18	0.0404297	0.1689194
MED23	-0.0311837	0.1689872
WRAP73	0.0061613	0.1690562
DHX16	0.0207817	0.1696521
JARID2	-0.0926109	0.1698092
RPS6	0.0951243	0.1699295
NEMP2	0.0082776	0.1700599
RAD51-AS1	0.0607017	0.1706949
FADS3	0.0206021	0.1708615
IL6ST	0.0673048	0.1710537

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DYNC2LI1	-0.0230551	0.1715435
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NOC3L	0.0133148	0.1723318
ARCN1	0.0365164	0.172495
GIMAP6	0.0224087	0.1725172
ANKFY1	-0.0169949	0.1726414
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TAF6	0.0191627	0.173282
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ZNF28	-0.0624573	0.1743011
ACOT13	0.0331996	0.1743589
MCTP2	0.0736993	0.1747654
YIPF2	0.0321289	0.1749448
CORO1B	-0.0085158	0.1750336
CALCOCO2	0.0398056	0.1761369
VPS13D	-0.0386487	0.1763831
RPL4	0.1591388	0.1770049
REEP3	0.0050915	0.1774399
PISD	0.0289953	0.1776422
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TENT5A	-0.1330382	0.1785633
FN3KRP	-0.0261526	0.1792586
TXNDC11	-0.0236274	0.1794134
SPNS2	0.0385271	0.179605
BFAR	0.0266556	0.1798727
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HOXB-AS3	0.0347412	0.1802115
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CLCC1	0.0466693	0.181176
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THAP1	0.0306233	0.1816904
CTNS	-0.006351	0.1820434
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AKR1C3	0.1335021	0.18362
COMMD8	-0.0383866	0.1836454
CIITA	0.0493504	0.1838881
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NUP50-DT	-0.0081102	0.1842962
ZFP3	-0.001316	0.184492
REEP4	-0.0317083	0.1846363
ADGRG6	0.102659	0.1853691
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DTWD2	-0.0422354	0.1866446
PRKCI	-0.0292834	0.1867567
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INSIG2	-0.0144092	0.1894806
TCF15	-0.0318101	0.1897438
ZDHHC17	-0.0344772	0.1905763
DDX19A	-0.0497221	0.1905955
C12orf65	0.035663	0.1906006
HMGCS1	-0.1311789	0.1907563
CENPBD1	0.0154725	0.1910629
GMPPA	-0.0034035	0.1913123
BORCS6	-0.0172431	0.1917906
KIAA1328	-0.0157771	0.1917976
IRAK1BP1	0.0195745	0.1918782
SNW1	-0.0577358	0.1919706
AC008124.1	-0.0344503	0.1930564
ANXA7	-0.1250225	0.1937427
SIRT1	-0.0288743	0.1938268
PRR13	-0.1387833	0.1940296
INTS1	0.0195295	0.1943374
MRI1	-0.0171215	0.1943689
SELENON	0.0112516	0.1945939
TMEM39B	-0.0048417	0.1947554
TMEM147-A	-0.0227318	0.1948571
LAMTOR4	0.1019095	0.1950349
ZNF180	0.0066121	0.1953012
BBS4	-0.0129431	0.195582
AKIP1	0.0460459	0.1959918
KLHDC10	-0.0240498	0.19601
RFX3	-0.0173672	0.1962498
GIGYF2	0.0252445	0.1963002
UBE4A	-0.0423943	0.1965268
LMBR1	-0.0020312	0.1965959
TBXAS1	0.0176218	0.1978712
CASP7	0.0273166	0.198013
RGP1	0.0382131	0.1991407
AC107214.1	0.0092605	0.1991899
RAB5IF	-0.0111034	0.199635
GGCX	-0.0856669	0.2002862
XPR1	-0.0335056	0.2005032
RPUSD3	0.0219633	0.200537
THAP6	-0.0092141	0.2005884
TIMMDC1	0.0531698	0.2006195
ACSF3	0.0538583	0.2011041
EIF2S2	-0.0190898	0.2013539
FLVCR1	-0.0359068	0.2015378
RBM22	0.0015393	0.2016466
RAP1A	-0.0710024	0.2020881
CPEB2	-0.0416311	0.2026703

ANKRD54	0.0443977	0.2028391
RCL1	-0.0023545	0.2028847
GOLGA2	0.0337771	0.2029479
YEATS2	-0.014311	0.2031087
FARSA	-0.0679435	0.2031815
SLC29A1	-0.0465422	0.2031989
COA6	0.03392	0.2034032
HSDL2	0.0690881	0.2035075
EDEM3	-0.1208003	0.2038425
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MAST3	-0.0505945	0.2061129
ADAT2	-0.0181267	0.2064165
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REL	-0.0302651	0.206571
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SNX6	0.0833713	0.2097007
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SPATA13	0.0360832	0.2107289
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MBD6	-0.0195746	0.2120483
SUGP2	-0.1041846	0.2128369
G3BP1	-0.0836048	0.2129652
FES	0.027337	0.2133346
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MED8	0.005067	0.215302
SZT2	-0.032662	0.2157534
ASB13	-0.0172765	0.2161716
RUFY2	-0.0242757	0.2162016
NR1H3	0.0559353	0.2173611
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HECTD3	-0.0056995	0.2177981
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C1QTNF6	-0.0352252	0.2182871
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SHPRH	0.0047648	0.2216238
PIP4K2A	-0.0128554	0.2222035
ITGB3BP	-0.0030627	0.2236112
MRM2	0.0804648	0.2239328
NDUFS7	0.0272194	0.2240262
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NDUFAF7	-0.0385572	0.2248847
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ARHGEF18	-0.0145472	0.2262623
USP53	0.0066323	0.2264863
POLR1A	0.0075613	0.2269256
FXN	-0.0363023	0.2276206
KDM4A-AS1	-0.032563	0.2279977
TP53TG1	0.0493002	0.2280043
IFT172	-0.0181544	0.2280312
AL009179.2	-0.0379828	0.2280809
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EXOSC3	0.0515604	0.2284205
NIPA1	-0.0290203	0.2293857
FRMD8	-0.046285	0.2294301
SMARCC2	-0.0340724	0.2297558
ZFYVE1	-0.027191	0.2300517
PLAAT4	0.0711743	0.2303036
CDK12	0.0457147	0.2303428
MAP4K2	-1.327E-05	0.2314281
MAPK14	-0.0382611	0.2317533
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YIPF4	-0.1685006	0.2341922
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NME8	0.006493	0.2356482
TANGO2	0.019133	0.2365198
MTMR1	0.0158813	0.2366747
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EMC10	0.0171153	0.24026
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POLI	-0.0176081	0.2435162
DNAJA1	0.0401251	0.243987
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AHI1	-0.0362795	0.2449058
APIP	0.0067398	0.2452359
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RBMS2	-0.0391838	0.2456058
ZNF569	-0.0307764	0.2463274
MBNL2	0.0045271	0.247064
ZNF420	-0.0032273	0.2470958
MED1	-0.0143228	0.2476981
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MARC2	0.0134833	0.2501078
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RAB12	0.0176352	0.250605
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HCG11	-0.0540234	0.2522049
PAF1	0.0236711	0.2534143
ZNF428	-0.0101596	0.2534239
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SFI1	0.0114542	0.2573082
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PTGER2	0.0675973	0.2621413
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RPP14	-0.0208499	0.2628902
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EIF2AK4	0.0213618	0.2644668
CHSY1	-0.0885262	0.2652831
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FASTKD5	-0.0284911	0.2658752
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KLHL23	0.1081044	0.2676953
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RPRD2	0.0077859	0.2683911
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CYBRD1	0.0596792	0.2711635
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FOXO4	-0.0205858	0.2712013
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AGTRAP	0.0095912	0.292079
MAP7D1	-0.0338197	0.2923724
TFDP2	0.0954377	0.2935163
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CDAN1	-0.0052455	0.3001983
SMAD1	0.0221404	0.3012218
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SBNO1	-0.0242059	0.3156813
OAS2	0.0683639	0.3159399
THEM4	-0.0350269	0.3160868
WDFY2	0.049959	0.3167004
ARMC5	-0.0203887	0.317237
TXNDC12	-0.0398904	0.3176215
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MVP	0.0063158	0.319421
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GSTM5	0.0302975	0.3217787
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DNAJB9	-0.001675	0.3227934
TRANK1	0.0231123	0.3228906
SPATA33	0.0184135	0.3234062
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TYW1	-0.0345836	0.3276742
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VCPIP1	-0.004693	0.3290815
SMAD2	-0.1086068	0.3291111
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KMT2D	-0.0504945	0.3393778
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STT3B	0.0091157	0.3415932
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NAB2	0.013191	0.3447469
ATOX1	0.0500442	0.3453232
BRD2	-0.0637983	0.3458251
DCP2	-0.0332444	0.346365
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FADS1	-0.0013851	0.3500782
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NBPF26	-0.0239858	0.3531811
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MNDA	-0.0318182	0.3539743
TESPA1	-0.1150091	0.3548168
CAPRIN1	-0.0347711	0.3549049
PDE3B	-0.0413625	0.3570955
PTTG1	0.0358373	0.358313
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MESD	0.073929	0.3601823
ARFGAP1	-0.0040333	0.3612984
BLOC1S4	0.0322374	0.3614267
USP12	-0.0606773	0.3619566
METAP2	-0.0714022	0.3625377
GPATCH1	-0.0064607	0.3645582
DANCR	-0.0828792	0.3651177
KBTBD3	0.0050914	0.365875
MBD5	-0.0099749	0.3676475
ARID4B	-0.0814216	0.3686038
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WIPI2	0.0321965	0.3696107
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DIPK2A	-0.0004738	0.3714563
TPSB2	-0.0380678	0.3715979
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ANKRD36C	-0.097433	0.3732797

PTER	-0.0257888	0.3735235
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CTPS2	-0.0016492	0.3759189
IDH1	0.0317196	0.3779941
AC097634.1	-0.0284481	0.3782841
FRAT1	0.0362297	0.3799084
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ZNF761	-0.0232051	0.3819054
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GATAD1	-0.0437401	0.3825526
AQR	-0.0395413	0.382807
AASDHPPT	-0.0136118	0.3832704
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SNX12	0.0008426	0.3867722
CAPN7	-0.0511148	0.3869213
OXCT1	0.0441541	0.3871545
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PKD2	-0.0385462	0.3897739
LGALS8	-0.0224981	0.3899038
SERTAD3	0.006928	0.3899647
PPP1R2	-0.0062883	0.3905401
STARD9	-0.0563886	0.3912132
RAB27B	0.1919365	0.3939034
NMNAT3	-0.0008309	0.3939711
EVI2A	0.1127965	0.3940304
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OSBPL3	0.0689585	0.3965938
CXXC1	0.000242	0.3981466
PTPN7	0.0938321	0.3982239
MX2	0.0307751	0.398914
RPP30	0.0100864	0.4002993
RHOBTB3	0.0983753	0.4004871
MNT	0.0034761	0.4012367
HEXD-IT1	-0.0244195	0.4019373
CDCA4	0.0249214	0.4024892
MTFMT	-0.0083744	0.4035859
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DHX9	-0.0131679	0.4057674
AC242426.2	-0.0014538	0.4058881
ZEB1-AS1	0.0290002	0.4097124
SMIM10	0.0631413	0.4101582
FIG4	-0.0100956	0.4102686
ZNF430	-0.061819	0.4111091
AC005523.2	-0.0010135	0.4136584
SENP2	-0.0374125	0.4138028

CLNK	0.0727614	0.4141527
PHF11	-0.0673402	0.4141988
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CIAO3	-0.0080779	0.4161849
UBAP2	-0.015595	0.4164095
RSRC1	0.0286322	0.4183525
NR1D2	-0.0593406	0.4188064
SNHG1	0.0282334	0.4191954
RASSF7	-0.0100896	0.4195025
ZNF480	0.0078347	0.4224026
TESMIN	-0.0455466	0.4242057
FAM122C	0.0083901	0.4247213
WDPCP	-0.0065123	0.4270541
AC073896.3	-0.0230833	0.4276934
SMC6	-0.0472289	0.4277
CERS2	-0.0506906	0.4282315
CCAR1	-0.0083375	0.428554
ZCCHC7	-0.0306745	0.4325558
PPOX	0.0128903	0.4329732
PARP4	-0.0562795	0.4335879
CLEC11A	0.0792237	0.4338483
QTRT2	-0.0321717	0.4343077
SLC43A1	0.0120557	0.4344228
NCK1	-0.0044792	0.4354843
NOTCH2NL	-0.0514886	0.4357205
DNAJC16	-0.0156473	0.4360134
DMAC2L	-0.0521198	0.4375034
RABEPK	0.0210885	0.4382106
MAGEF1	0.0477017	0.438325
NOP9	-0.0031023	0.4391301
LITAF	-0.049604	0.4401847
LSM14A	-0.0364824	0.4402879
ZMAT2	-0.0110629	0.4423463
SHISA5	0.0110882	0.4450463
UGGT2	-0.0195283	0.4463097
CDK5RAP2	0.0028386	0.4490446
ACTN1	-0.124295	0.4518972
SART3	-0.0073915	0.4520995
CASP8	0.04834	0.4531358
SYPL1	-0.0812656	0.4534407
FBXL17	-0.005278	0.454233
KIAA0319L	-0.0151393	0.4543519
CBX5	0.0295712	0.4551203
LIMD1	0.0066357	0.455524
ZNF692	0.0020319	0.4563601
SLC4A1AP	0.0021174	0.4564431
CFAP97	0.1286906	0.4575464
CRIP1	0.1611963	0.4577743
NBPF11	-0.0254441	0.4586315
SLC3A2	-0.0029029	0.4586582

BIVM	-0.0203162	0.4594252
MTRF1L	-0.0457364	0.4595964
RSAD2	-0.0036999	0.4608794
ELP2	-0.0198377	0.4615647
GPSM3	0.0682858	0.4622158
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RASSF3	-0.0542273	0.4643973
EFCAB7	-0.0209942	0.4661937
CLCN6	-0.0163636	0.4675217
ZNF581	0.0400907	0.4682107
LINC00683	-0.0273409	0.4700868
ZP3	0.0056427	0.4705549
NOTCH2NL	-0.0404355	0.4708804
WASF2	0.134345	0.4720681
TRAFD1	-0.0055672	0.4721279
GAS7	-0.0242356	0.4757528
TMEM267	-0.0416176	0.4757886
LINC00339	0.0231463	0.4764548
TMEM191B	-0.0216585	0.4768226
RCE1	-0.0174294	0.4794637
STX11	-0.0343251	0.4796069
DPY19L1	-0.0449073	0.4801092
N6AMT1	-0.0374068	0.4811797
MOGS	-0.0061869	0.481817
LRIF1	-0.0202007	0.4836484
SCAMP1	-0.0511115	0.4845506
STK40	-0.0186148	0.4845537
UCN	0.0028649	0.4855318
FANCL	-0.0153532	0.4872536
WDR55	-0.0063643	0.489449
INTS5	-0.0061425	0.4897279
SULT1A3	-0.0478586	0.4897631
DPP8	-0.0660508	0.4903224
KIAA0232	0.0280461	0.4915585
ZNF337-AS1	-0.015614	0.491679
MOSPD1	0.0033198	0.4921022
AC136944.2	-0.0305634	0.4922011
TMED5	-0.0372292	0.4936619
ZNF286A	0.0776223	0.4937351
PVR	0.0327431	0.4942169
HDLBP	0.0093614	0.4949315
ZBTB25	-0.0076855	0.4958675
DIS3L	-0.0193905	0.4959984
KATNB1	0.0500562	0.4967887
UBE2Q1	0.0653839	0.4974861
EMC8	0.0056858	0.4980466
EFCAB11	-0.0128388	0.4983206
CHRNA1	-0.0435975	0.4988825
ZC3HAV1	-0.0185308	0.4994447
ZNF717	-0.0093345	0.4996482

CHST12	-0.0211667	0.5000245
PTPN18	0.0223608	0.5025825
ZNF254	-0.0201176	0.5035806
AC146944.4	-0.0159262	0.503679
RRP8	0.0467711	0.5045303
PROK2	-0.0505225	0.5073344
GABPB2	-0.0314063	0.509293
RARA	-0.0008144	0.5102928
POLR3GL	0.0173522	0.5104584
KCTD6	0.0095097	0.5113734
MRRF	-0.0058672	0.5122862
AL031595.3	-0.0032709	0.5133379
LINC01943	0.0257417	0.5133846
SON	-0.1443359	0.5136874
EIF4G3	0.0168426	0.5137127
FBXO46	-0.0216886	0.5137397
AC021016.2	-0.0247698	0.5156543
CASP9	-0.0153206	0.515997
PPP3CB	-0.0204617	0.5166724
MYO5C	0.0772865	0.5187078
AL512625.3	0.0114723	0.5197746
THADA	-0.0236645	0.5204213
STRBP	-0.0463767	0.5215472
ADGRE1	-0.0343405	0.5216935
CHMP7	-0.0058163	0.5235904
ZNF765	-0.0194896	0.5240732
SLC39A3	-0.0245825	0.5256474
IFT122	-0.0206182	0.5260616
PARP11	-0.0314102	0.5270596
FAF1	-0.0102503	0.5273653
PHTF2	0.0043348	0.5282482
OGA	0.0032284	0.5288077
SAMD9L	0.0346319	0.5299257
TBRG1	-0.0670843	0.5303502
RHOC	0.0803107	0.5309504
ARFIP2	-0.0050184	0.5321032
G2E3	-0.0204062	0.5333287
TMEM159	0.0136454	0.5336014
TFIP11	-0.0018044	0.5336424
FARS2	0.0531564	0.5339146
FBF1	-0.0048237	0.5352703
ZNF528-AS1	-0.0705998	0.5352937
NR2C2AP	0.0284035	0.535912
PADI4	0.1390482	0.5360262
FAR1	0.0057135	0.5390529
GOLGA1	0.032074	0.5391251
WT1	0.0207635	0.5406305
ZWILCH	0.0034419	0.5408513
DENR	0.0279668	0.5412058
C21orf62-AS	-0.0356265	0.5423177



MORC2-AS1	0.0024489	0.5424038
UBE2Z	0.038396	0.5433137
NT5DC3	0.0032574	0.545076
LYPLA1	-0.0442474	0.5454155
PTPN9	-0.0328087	0.5471058
ZNF567	-0.0020566	0.5486945
EPB41L2	-0.0099364	0.5499951
ZNF197	-0.0027966	0.5503408
AGA	-9.902E-05	0.5509036
SOGA1	-0.0139883	0.5525598
ZNF528	-0.0335256	0.5529144
XKR8	0.0061842	0.5547083
CCNJ	-0.0373294	0.554857
UNC45A	0.0140571	0.5554817
GLCE	-0.0095833	0.5555262
CTC1	-0.0100934	0.5558879
DOT1L	-0.0061564	0.5563143
AKAP10	-0.0568529	0.5564243
CLEC16A	-0.0177281	0.5568661
PUS3	-0.0383303	0.5570546
AC025171.2	-0.0697861	0.5585323
AL353194.1	0.0273855	0.5610669
FAM160A2	-0.0279974	0.5615279
ZNF724	0.0018598	0.5616823
HARS2	-0.0211462	0.5621112
ZNF667	0.0179185	0.562772
POLG	-0.0208604	0.5632975
CHMP4A	0.0056293	0.565901
TMEM116	-0.0177455	0.5662528
CUL2	-0.0335821	0.5679297
FBXW9	0.0608652	0.5681655
CSE1L	0.0266708	0.5709312
HSD17B1	-0.0053549	0.5713285
ZNF248	-0.0229332	0.5716184
ANO10	0.0031475	0.5743568
HBS1L	-0.0093566	0.5748687
SLK	0.0405058	0.5767241
TNFAIP8L2	0.0455699	0.5769915
DSTN	-0.0137372	0.5775256
FAM13A-AS	-0.0353058	0.5782154
WDR27	0.0315713	0.580239
MAP1S	-0.0634395	0.5804417
LONP1	0.0182054	0.5818568
CXorf40B	-0.0078242	0.5830173
CRACR2A	-0.0123312	0.584093
ZNF138	-0.0274016	0.5885035
MMS19	0.009464	0.5899964
LRP5	-0.0021312	0.5916365
PGM1	0.0171035	0.5941762
MOAP1	-0.0052579	0.5952871

HCG18	-0.1029943	0.5971361
TNFAIP2	-0.0472063	0.5988688
SGMS1	0.0453466	0.5992844
TRUB1	0.0055715	0.5993034
SMARCA5	0.07196	0.6015235
TRIM52	-0.0008128	0.6017657
AC005838.2	-0.0048919	0.6022577
TACO1	0.0432071	0.6042568
MTERF4	-0.0211334	0.604455
ATG2B	-0.0314147	0.6059898
TIFA	-0.02788	0.6068541
SCFD1	-0.0073573	0.6071248
ING5	-0.0022865	0.6089289
ZDHHC8	0.0100771	0.6108417
MCTP1	0.0337964	0.6134734
MIER3	0.0044109	0.6142769
CLIC4	0.034738	0.6152743
DNASE1L1	-0.011023	0.6154393
EXOSC1	0.0119962	0.6155604
SUSD3	0.0680761	0.6160937
NF1	-0.0420284	0.6174711
CCT6B	-0.0147781	0.617735
ARF1	0.0808513	0.6194929
ATP5ME	-0.1111152	0.6208871
DDX60	0.0058705	0.6214594
ZDHHC13	-0.039596	0.623081
NAIP	-0.0904427	0.6247721
NBR1	-0.0370826	0.6247975
INPP5A	-0.0137923	0.625369
BEX4	0.0466171	0.6257139
ISY1	-0.0140279	0.6288503
AC008393.1	-0.0149533	0.6300328
PVT1	0.0576475	0.6312053
PFAS	0.0275765	0.6317447
ZNF512B	0.0240632	0.6330628
GNB2	0.0439982	0.6331147
NIPSNAP1	0.0086653	0.6332246
A1BG-AS1	0.0190766	0.6348831
AC159540.2	0.0204273	0.6351622
C7orf31	-0.0142409	0.6351657
ZUP1	-0.0047812	0.6359639
TESK2	-0.0374552	0.6362095
DNAJC21	-0.0088993	0.6367019
TRIP6	0.0467391	0.6372917
PIIP5K2	-0.0425169	0.6375212
MAP3K13	-0.0249741	0.6393126
GABPB1	-0.025797	0.6399697
MMADHC	-0.0180548	0.6406245
SLC25A51	0.0147796	0.6409022
BATF	0.0024371	0.6417677

SUFU	-0.007226	0.6438354
ATP13A1	0.0328739	0.6446386
AAR2	0.0156413	0.6471961
SLC26A2	-0.144132	0.6480741
NOP58	0.075801	0.6486934
KYNU	-0.0055548	0.6497858
ZNF445	0.0007951	0.649974
ENPP4	0.0066754	0.6517788
C20orf197	0.0783514	0.652219
AC008875.3	0.0187131	0.6537732
WDR47	-0.0041388	0.6545885
ERLEC1	0.0133256	0.6550805
TMEM67	0.014314	0.6553505
KLHL36	-0.0376023	0.6563947
HUS1	-0.0358893	0.6602596
MFNG	-0.0057723	0.6608376
UHRF1BP1L	-0.0513816	0.6649299
RACGAP1	-0.0110131	0.6652267
SPTY2D1	0.0445563	0.6656131
ZNF107	-0.0447862	0.6664178
GMEB1	-0.0407207	0.6665874
NATD1	-0.0027279	0.6679523
SNAP23	-0.0463417	0.6689536
CAPZA1	-0.0849886	0.6690252
ST6GALNAC	-0.0012378	0.6729944
MFHAS1	0.072005	0.6730946
MLC1	-0.0387255	0.6743391
NEDD9	0.0563886	0.6750326
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CCNG1	-0.0805185	0.6767665
PYGB	-0.009478	0.6769796
CRY2	-0.0180142	0.6784166
BISPR	0.0102763	0.6799042
PTPN12	-0.0497859	0.6799078
NR6A1	0.0109129	0.6809712
CDC42-IT1	-0.024127	0.6824281
PHOSPHO2	0.0076152	0.6842497
AC024075.2	-0.0252987	0.6880247
UTRN	0.0513067	0.6913465
ABCC5	-0.0243543	0.6918247
CAMLG	-0.1071165	0.6934691
JUP	0.0708463	0.6941482
SEL1L	-0.0334942	0.6943422
AC120053.1	-0.0497909	0.6947543
PLEKHB2	-0.028955	0.6968469
PSME4	-0.0492828	0.6972064
ANKRD17	-0.0183351	0.697247
AK2	-0.1467579	0.6975576
SOCS4	0.0344541	0.6981568

B3GNT8	-0.0177982	0.698282
UBXN8	0.0180867	0.701327
EIF3J-DT	-0.0234522	0.7041272
ZC3H6	-0.0138185	0.7048053
AC007878.1	-0.0058141	0.7053858
CNBD2	-0.0108924	0.7055223
AC078883.1	0.0236815	0.7056786
ZNF865	-0.0471325	0.7090999
NDUFB9	-0.0415686	0.711448
SAMD10	0.0322691	0.7142124
ZNF280D	-0.0071053	0.7149125
TYW1B	-0.0449554	0.7152221
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ACSL4	-0.0109931	0.7178147
ESCO1	0.0023864	0.7182226
TRAK1	-0.011602	0.7226561
ASPH	-0.022024	0.723377
TRIM59	0.0071133	0.7265349
TMEM135	0.028688	0.7287244
CLN6	0.0242136	0.7296543
USP30-AS1	0.0017614	0.7314675
FDFT1	-0.0795393	0.7315243
AL138724.1	-0.000264	0.7319252
TMEM9	0.0048466	0.731929
MIR1915HG	0.0321908	0.732396
AC009118.3	-0.0119844	0.7330408
ZFP28	-0.0066747	0.7334967
GBE1	0.0144188	0.7345809
ZNF174	0.0097388	0.7358493
CMSS1	0.0709199	0.7363535
PRPS1	-0.0090352	0.7365682
SECISBP2	-0.0801671	0.7368386
AL391832.2	0.0171144	0.7370393
CDK5RAP1	-0.0126712	0.7375006
HNRNPA3	-0.004121	0.7388553
TRAM2	-0.0035932	0.7401589
AARS	0.0170994	0.7416385
HDHD5	0.0200622	0.7416842
TOB1	-0.0302917	0.74351
RGPD2	-0.0171589	0.7453141
KDM5A	-0.036481	0.7485415
ZBTB48	-0.0060476	0.7487873
OAT	-0.024336	0.7500163
CHEK2	0.0127759	0.7511306
KLHL7	0.0107112	0.7535965
RASGRP4	0.0574816	0.7540983
ZNF879	-0.0137803	0.7562944
POGK	-0.0175584	0.7592183
ZNF713	-0.0435666	0.7599032
ZNF845	0.0056741	0.7603026

SUPT4H1	-0.0132441	0.760487
AHCYL2	-0.0292364	0.7614014
YOD1	-0.047886	0.7622866
GALNT7	-0.0191593	0.762483
ADD3	0.0066483	0.7632862
MAML3	0.0480509	0.7638869
RIPK2	0.0054843	0.7657137
RHBDF2	0.0172846	0.7683265
SORBS3	0.056574	0.7725172
ERAL1	-0.018861	0.7737976
RAF1	-0.0715362	0.7746755
TYSND1	0.0202866	0.7756739
TRIM25	-0.0168132	0.7756954
SARS2	0.0325533	0.7764564
IGBP1	0.0014137	0.7792964
ACAT1	-0.0051102	0.7864199
HNRNPK	-0.1291092	0.7874177
C22orf34	-0.0173106	0.7896531
TMEM214	-0.0174341	0.792758
UFL1	0.0078879	0.793222
FLAD1	-0.0228069	0.793914
FOXJ2	-0.0048158	0.7946293
CHMP2B	0.0297364	0.7953238
AL133243.2	-0.0009501	0.7975556
PPA1	0.1398142	0.7986804
MAPK8	-0.0376501	0.7988974
IMMT	0.0547835	0.799896
FBXO33	-0.0120049	0.8015671
FAM53C	-0.0101343	0.8039068
ABHD16A	0.0255162	0.8041545
CSAD	-0.0087731	0.8045004
TRERF1	0.0524867	0.8068872
TAGLN	0.0699948	0.8091277
KANSL3	-0.02198	0.8124152
TSNAX	-0.0679587	0.8132695
ZNF778	-0.0118295	0.8161422
NEDD8	0.1068926	0.8168801
BLOC1S3	0.0194278	0.8182327
HOXA5	0.0215007	0.819107
ZNF549	-0.0219953	0.8199508
HERPUD2	-0.0367124	0.8208394
MIPEP	-0.0170215	0.8221803
IRF9	0.032642	0.8248552
SMC5	0.009324	0.8260361
AC009005.1	-0.0397625	0.8280611
AARS2	-0.0040506	0.8286033
GABPB1-IT1	-0.0063042	0.829233
KPTN	0.0687437	0.8295974
TATDN1	0.0083228	0.8298461
CPSF1	-0.0329406	0.8309409

PAIP2	-0.0261175	0.833109
INTS6L	0.012283	0.8334709
GINM1	-0.0023231	0.8338766
ZXDB	-0.0042464	0.8357607
MED28	-0.0643457	0.8374357
COG8	-0.0361181	0.8408327
VOPP1	-0.0271452	0.8425523
MED17	0.0112504	0.8436523
AP1G1	-0.0270342	0.8449488
MTHFR	-0.0303665	0.8470624
DDI2	0.0007335	0.8498389
STK3	0.0051541	0.8500934
AMZ2	-0.0069261	0.8502104
TAPT1-AS1	-3.354E-05	0.8513717
TECPR2	-0.0046408	0.8526359
H1FX	0.2749199	0.8528826
QSER1	-0.0218814	0.8529582
ADAM10	-0.0453812	0.8547512
SH3D21	0.0566135	0.8574374
SLC30A1	-0.0209744	0.8603645
REXO5	-0.0062098	0.8622969
POLE4	0.0676466	0.8624015
ZNF646	-0.0041369	0.8625607
HIC2	0.0430532	0.8629703
OGDH	0.0197452	0.8635748
APH1B	0.0158389	0.8660546
ECHS1	0.0636351	0.8663703
AC016831.5	0.0660718	0.8670715
CENPT	0.0030644	0.8673172
ZBTB18	-0.0286353	0.8674596
HSPA14.1	-0.0313965	0.8696552
PPM1D	-0.0083116	0.8742067
SERF1A	-0.0170194	0.8745542
ELOA	0.0036884	0.8762605
ELF4	-0.0406641	0.8857519
CD2AP	0.0715383	0.8865228
AL355001.2	5.64E-05	0.8867377
UBE2B	0.0455101	0.8873154
ZSCAN5A	0.0329479	0.8923019
TBC1D16	-0.0428128	0.8926465
TMEM25	0.0545511	0.8934878
IPO13	0.0074176	0.8948818
APPL2	0.0060242	0.8970777
AC022973.5	-0.0136094	0.8995265
DESI2	0.0458992	0.899968
POMP	-0.0352275	0.9006373
CEP41	-0.0288572	0.9014048
CHCHD3	0.0406126	0.9014549
ZPR1	0.0117124	0.9021155
ARHGAP17	0.0161678	0.9064561

SLC19A1	0.0325737	0.9076084
ABRAXAS1	-0.0230139	0.9118925
MEST	0.0177879	0.91393
PRDX2	0.1811329	0.914193
PPP1R26	-0.0112749	0.9159705
ACSS2	-0.0038963	0.9174385
NOL8	-0.0327237	0.9189702
UTP4	-0.0177908	0.9203449
NEK3	0.0115225	0.9205872
ARAP1	-0.0199977	0.920806
EIF3M	-0.0757326	0.9212041
SLC9B2	0.0291489	0.9212835
MIR762HG	-0.0232461	0.9222158
ZNF141	-0.0501497	0.9250881
BRAF	-0.1054884	0.9262294
ANAPC2	-0.0370085	0.9267839
AC108134.3	0.0213149	0.9295742
FCHO2	-0.0009709	0.9334432
MPO	0.4011183	0.9373652
C8orf82	0.0105777	0.9374054
GXYLT1	-0.015959	0.938821
CYB561D1	-0.0187501	0.9409579
TLR2	-0.0466633	0.9431799
LINC00893	0.0156194	0.9447912
URI1	0.0460715	0.9476792
TIE1	0.0221252	0.9490204
CCDC71	-0.027965	0.9491636
AL133243.3	-0.0195399	0.9494525
EEF1D	0.1312771	0.9494793
ZNF385A	0.0317941	0.9508697
ATP6AP2	-0.0283274	0.9517297
CGRRF1	0.0189661	0.9519689
AL096865.1	0.0038746	0.952494
MTDH	0.1790687	0.9534151
C17orf58	0.0267014	0.9539656
LARS2	0.0023895	0.9541308
CRELD2	0.0222481	0.9567824
GTF2H5	0.0469746	0.9596058
IPMK	-0.0428861	0.961436
AC021097.2	-0.0119703	0.9659884
KCNK5	0.0198648	0.9672468
MTRR	-0.0136435	0.9697508
ALDH9A1	-0.001169	0.9706573
CASP8AP2	0.0433103	0.9716301
GGT5	0.04479	0.9721095
SPIRE1	0.0378027	0.9725399
PRMT7	0.0386898	0.9755302
SLC39A4	0.0404198	0.9764266
PIGZ	-0.0139448	0.9813766
ANXA11	0.0041243	0.9815407

LIMA1	0.0711687	0.981865
ZNF747	-0.0044963	0.9867515
MTFP1	0.0147975	0.9905214
ABAT	0.0091604	0.9929246
IFT80	0.0233544	0.9932996
UBE2V1	0.0400971	0.994887
VRK2	0.0070369	0.9962308
ODF2L	-0.0371391	0.998289
COPS8	-0.0221109	0.9989555
APPBP2	0.0485767	0.9992416
ZCCHC14	0.0005722	0.9998119
MED31	0.0031673	1
RETSAT	-0.0088158	1
MTG1	0.0202452	1
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CAAP1	0.0205817	1
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ARNTL2	0.0118908	1
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STK35	0.0126113	1

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DVL2	-0.0220236	1
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GHDC	-0.0084882	1
SNX18	-0.0455958	1
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LAT	0.0184142	1
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ERCC8	-0.024329	1
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ELL2	-0.0278558	1
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CACTIN	-0.0116398	1
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LONRF1	0.0153108	1
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SASS6	-0.0374757	1
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SNAPC1	0.0109	1
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ZNF25	-0.0200267	1
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ERP29	-0.0188932	1
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PGK1	0.016354	1
TEDC1	0.0163763	1
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TALDO1	-0.0532619	1
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LFNG	0.0351124	1
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GALM	-0.041965	1
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GABPB1-AS	-0.0080545	1
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BAIAP2	-0.0372325	1
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TCEA1	0.0165534	1
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PRELID1	0.0083979	1
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COX6A1	-0.0403503	1
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CTSH	-0.0431248	1
AFF3	0.0158999	1
TOMM20	0.0133759	1
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SFMBT2	0.0138321	1
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BANK1	0.0186315	1
SRSF5	0.0577991	1
MIR4453HG	-0.0047429	1
SERP1	0.0222933	1
PLB1	0.0205407	1
HLA-DQA1	0.0048432	1
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HERC5	0.0020723	1
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CPA3	-0.0038542	1

HAUS8	0.0009958	1
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TMEM123	-0.0463647	1
AC091271.1	0.0257747	1
ARHGDIB	-0.0304505	1
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LGALS1	-0.0559139	1
SUMO2	0.0838156	1
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HGH1	0.0127954	1
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RPS3A	-0.0105505	1
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ATP5PF	0.0230053	1
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SERPINI1	-0.0213082	1
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PFN1	0.0030059	1
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HMGA1	-0.0126186	1
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MYOF	0.0033097	1
RPS12	0.0013285	1
TMSB10	-0.0251127	1
MT-CO2	0.0039174	1
MT-ND3	0.0025674	1
CFL1	0.0076509	1



· cells after niche-like culture versus after standard culture (reference). Only genes exp





























































































































































































































































































































































































































































































expressed in >10% of single cells are reported. Log2 Fold Change (FC) and FDR-adjusted































































































































































































































































































































































































































































































**p-value.**