

Supplementary Table 1 LncRNA-mRNA co-expression analysis for OS in HCC with cirrhosis

LncRNA	mRNA	Pearson correlation coefficient	pvalue
AC136475.3	ELFN1	0.413	6.49E-10
AC136475.3	NLRP6	0.643	1.56E-25
AC136475.3	PGGHG	0.849	8.54E-59
LINC00880	BAMBI	-0.466	1.47E-12
LINC00880	IER5L	-0.417	4.26E-10
LINC00880	SFXN5	0.401	2.15E-09
LINC00880	PRPS1	0.405	1.37E-09
LINC00880	HSD3B1	0.406	1.32E-09
LINC00880	ADCY1	0.407	1.12E-09
LINC00880	ADGRA3	0.415	4.89E-10
LINC00880	CNDP1	0.416	4.60E-10
LINC00880	SHC4	0.417	4.31E-10
LINC00880	SPATA46	0.42	2.84E-10
LINC00880	TTPAL	0.423	2.20E-10
LINC00880	ABHD5	0.423	2.28E-10
LINC00880	EID1	0.424	1.90E-10
LINC00880	G0S2	0.433	7.49E-11
LINC00880	IL13	0.436	5.22E-11
LINC00880	PPM1E	0.436	5.33E-11
LINC00880	FRMD7	0.45	1.05E-11
LINC00880	LAMB3	0.454	6.42E-12
LINC00880	FAM198A	0.473	5.99E-13
LINC00880	USH2A	0.485	1.29E-13
LINC00880	AC092042.3	0.485	1.36E-13
LINC01549	MGLL	-0.551	8.23E-18
LINC01549	BAIAP2L1	-0.514	2.44E-15
LINC01549	ERICH5	-0.487	9.73E-14
LINC01549	MYO1E	-0.473	6.21E-13
LINC01549	TJP3	-0.455	5.52E-12
LINC01549	ARAP2	-0.455	5.82E-12
LINC01549	ATP2B2	-0.454	6.78E-12
LINC01549	APBB1IP	-0.452	8.45E-12
LINC01549	CPM	-0.449	1.18E-11
LINC01549	MBP	-0.449	1.20E-11
LINC01549	GPC6	-0.447	1.53E-11
LINC01549	HAL	-0.446	1.56E-11
LINC01549	PLGLB2	-0.446	1.70E-11
LINC01549	SERPINB8	-0.444	2.18E-11
LINC01549	SLC2A13	-0.44	3.11E-11

LINC01549	SLPI	-0.44	3.17E-11
LINC01549	FOXD2	-0.438	4.17E-11
LINC01549	PLD1	-0.437	4.80E-11
LINC01549	PRSS12	-0.436	4.89E-11
LINC01549	SH3RF1	-0.434	6.20E-11
LINC01549	LIPH	-0.423	2.13E-10
LINC01549	OSBPL9	-0.423	2.06E-10
LINC01549	FURIN	-0.419	3.45E-10
LINC01549	PDK3	-0.418	3.71E-10
LINC01549	CDH1	-0.415	4.96E-10
LINC01549	ARHGEF5	-0.414	5.75E-10
LINC01549	GLIS3	-0.411	8.04E-10
LINC01549	ARNTL2	-0.41	8.58E-10
LINC01549	IL15RA	-0.409	9.54E-10
LINC01549	LRRC8B	-0.409	9.56E-10
LINC01549	UPP1	-0.408	1.07E-09
LINC01549	AP1S3	-0.407	1.19E-09
LINC01549	UGCG	-0.407	1.16E-09
LINC01549	ZNF438	-0.406	1.24E-09
LINC01549	VNN1	-0.406	1.25E-09
LINC01549	MAL2	-0.406	1.32E-09
LINC01549	SLC8B1	-0.404	1.51E-09
LINC01549	SLC3A1	-0.403	1.78E-09
LINC01549	AADAC	0.401	2.03E-09
LINC01549	ZCCHC6	0.401	2.04E-09
LINC01549	GGH	0.401	2.12E-09
LINC01549	SH2D4A	0.402	1.90E-09
LINC01549	NFIX	0.402	1.85E-09
LINC01549	ITPR2	0.402	1.99E-09
LINC01549	TBCA	0.403	1.76E-09
LINC01549	ENOX1	0.403	1.74E-09
LINC01549	CBR1	0.403	1.80E-09
LINC01549	SLC13A3	0.406	1.26E-09
LINC01549	LINC00238	0.406	1.30E-09
LINC01549	IL12RB2	0.407	1.12E-09
LINC01549	PPP1R3G	0.407	1.12E-09
LINC01549	TMEM245	0.407	1.17E-09
LINC01549	ING4	0.408	1.08E-09
LINC01549	PHLPP1	0.409	8.99E-10
LINC01549	SEC14L2	0.409	9.19E-10
LINC01549	PITPNC1	0.41	8.43E-10
LINC01549	ZNF563	0.41	8.75E-10
LINC01549	UST	0.411	7.83E-10

LINC01549	BIK	0.412	6.96E-10
LINC01549	CACNG1	0.412	6.65E-10
LINC01549	PGM5	0.413	5.92E-10
LINC01549	RBP1	0.414	5.89E-10
LINC01549	NUBPL	0.414	5.88E-10
LINC01549	CST1	0.414	5.68E-10
LINC01549	TREH	0.415	5.25E-10
LINC01549	BMP1	0.416	4.43E-10
LINC01549	DPP4	0.417	4.05E-10
LINC01549	SSTR1	0.418	3.53E-10
LINC01549	RAD54L2	0.418	3.87E-10
LINC01549	TEC	0.418	3.88E-10
LINC01549	HIRIP3	0.418	3.55E-10
LINC01549	RANBP3L	0.418	3.77E-10
LINC01549	C20orf204	0.419	3.37E-10
LINC01549	GALNT1	0.42	2.94E-10
LINC01549	C20orf196	0.42	2.98E-10
LINC01549	GLUD1	0.42	2.84E-10
LINC01549	HSDL1	0.422	2.51E-10
LINC01549	MYO3B	0.423	2.14E-10
LINC01549	ZBTB10	0.423	2.12E-10
LINC01549	PPP4R2	0.423	2.08E-10
LINC01549	PDZK1	0.424	1.90E-10
LINC01549	DAAM1	0.425	1.70E-10
LINC01549	SMIM2	0.425	1.80E-10
LINC01549	GCM1	0.425	1.81E-10
LINC01549	BEND5	0.426	1.52E-10
LINC01549	HTR2B	0.427	1.41E-10
LINC01549	SH3BP4	0.427	1.36E-10
LINC01549	PPP1R2	0.427	1.40E-10
LINC01549	TMEM150C	0.428	1.19E-10
LINC01549	CBLN4	0.428	1.24E-10
LINC01549	ASIC1	0.428	1.20E-10
LINC01549	LAPTM4A	0.431	9.03E-11
LINC01549	ACKR2	0.431	9.03E-11
LINC01549	ABCG2	0.431	9.37E-11
LINC01549	TTC9	0.432	8.50E-11
LINC01549	MME	0.433	6.85E-11
LINC01549	CXADR	0.434	6.69E-11
LINC01549	HDAC4	0.436	5.00E-11
LINC01549	CRTAP	0.436	5.07E-11
LINC01549	CACNB4	0.438	3.99E-11
LINC01549	CTNNBIP1	0.438	3.99E-11

LINC01549	VSTM4	0.439	3.80E-11
LINC01549	SIAH2	0.439	3.60E-11
LINC01549	IRS1	0.439	3.72E-11
LINC01549	ZNF385D	0.44	3.16E-11
LINC01549	AQP11	0.441	2.98E-11
LINC01549	SLC16A11	0.441	2.93E-11
LINC01549	TERB2	0.443	2.34E-11
LINC01549	SORD	0.444	1.98E-11
LINC01549	THSD1	0.445	1.75E-11
LINC01549	ATP1A2	0.445	1.74E-11
LINC01549	SMYD2	0.445	1.94E-11
LINC01549	ARIH1	0.445	1.82E-11
LINC01549	RSPO2	0.447	1.46E-11
LINC01549	IMPAD1	0.447	1.46E-11
LINC01549	MATN3	0.448	1.24E-11
LINC01549	RHOBTB1	0.448	1.32E-11
LINC01549	UGGT1	0.448	1.33E-11
LINC01549	TCF7	0.449	1.11E-11
LINC01549	LGR5	0.45	1.04E-11
LINC01549	AP3S1	0.45	1.00E-11
LINC01549	KCNJ9	0.45	9.83E-12
LINC01549	CPPED1	0.451	8.89E-12
LINC01549	ADH6	0.452	8.17E-12
LINC01549	TBX3	0.453	7.60E-12
LINC01549	DRD1	0.454	6.08E-12
LINC01549	PREB	0.454	6.22E-12
LINC01549	GPHN	0.455	5.39E-12
LINC01549	ACTN2	0.455	5.40E-12
LINC01549	FBXO31	0.457	4.73E-12
LINC01549	C3orf58	0.458	3.77E-12
LINC01549	TGM4	0.458	3.92E-12
LINC01549	PGC	0.459	3.51E-12
LINC01549	SAMM50	0.459	3.49E-12
LINC01549	C1orf112	0.459	3.39E-12
LINC01549	ZNF503	0.46	3.26E-12
LINC01549	DNAJC12	0.461	2.70E-12
LINC01549	FAM8A1	0.461	2.78E-12
LINC01549	TRPM3	0.462	2.45E-12
LINC01549	RHBG	0.462	2.29E-12
LINC01549	AXIN2	0.462	2.57E-12
LINC01549	STARD13	0.466	1.45E-12
LINC01549	ACER1	0.467	1.28E-12
LINC01549	SLC6A7	0.467	1.32E-12

LINC01549	GLT8D1	0.468	1.12E-12
LINC01549	REG3A	0.468	1.16E-12
LINC01549	AQP9	0.47	8.80E-13
LINC01549	ACSL5	0.47	9.46E-13
LINC01549	CACNA1I	0.473	6.12E-13
LINC01549	SP5	0.473	6.20E-13
LINC01549	FRMD3	0.474	5.46E-13
LINC01549	ICK	0.476	4.05E-13
LINC01549	AMACR	0.476	4.41E-13
LINC01549	IGSF8	0.478	3.20E-13
LINC01549	TEDDM1	0.48	2.35E-13
LINC01549	CTNNB1	0.481	2.18E-13
LINC01549	RIPPLY1	0.482	1.99E-13
LINC01549	YPEL1	0.482	1.87E-13
LINC01549	TSC22D1	0.483	1.78E-13
LINC01549	TRIB2	0.483	1.70E-13
LINC01549	MERTK	0.484	1.44E-13
LINC01549	LRRTM1	0.484	1.57E-13
LINC01549	CCNY	0.485	1.31E-13
LINC01549	HABP4	0.485	1.27E-13
LINC01549	AMER1	0.486	1.17E-13
LINC01549	SLC5A6	0.491	5.77E-14
LINC01549	NMT2	0.491	6.07E-14
LINC01549	PAGE4	0.491	5.91E-14
LINC01549	TCEAL1	0.491	5.75E-14
LINC01549	DISC1	0.494	3.85E-14
LINC01549	LAMA3	0.495	3.24E-14
LINC01549	C9orf152	0.495	3.19E-14
LINC01549	RGSL1	0.496	2.98E-14
LINC01549	ABHD1	0.496	3.14E-14
LINC01549	COL7A1	0.497	2.74E-14
LINC01549	BOK	0.497	2.71E-14
LINC01549	HLF	0.499	2.09E-14
LINC01549	SLC22A4	0.5	1.68E-14
LINC01549	PRR5L	0.5	1.78E-14
LINC01549	BMP4	0.503	1.06E-14
LINC01549	GALR3	0.504	9.16E-15
LINC01549	ANKFN1	0.504	9.20E-15
LINC01549	DUT	0.507	6.80E-15
LINC01549	MYH7B	0.507	6.38E-15
LINC01549	SAXO1	0.507	6.30E-15
LINC01549	ODAM	0.508	5.40E-15
LINC01549	PANX1	0.508	5.46E-15

LINC01549	CCDC170	0.511	3.64E-15
LINC01549	IGDCC3	0.512	3.09E-15
LINC01549	GRPR	0.513	2.81E-15
LINC01549	INSIG2	0.514	2.43E-15
LINC01549	KLK4	0.515	2.02E-15
LINC01549	NEK3	0.516	1.87E-15
LINC01549	KCNU1	0.516	1.65E-15
LINC01549	HEPACAM	0.516	1.72E-15
LINC01549	EBPL	0.516	1.65E-15
LINC01549	VEGFD	0.517	1.55E-15
LINC01549	EPHB2	0.518	1.28E-15
LINC01549	RNF43	0.522	7.38E-16
LINC01549	WASHC3	0.523	6.07E-16
LINC01549	NEK5	0.53	2.30E-16
LINC01549	DYNC1I1	0.531	1.93E-16
LINC01549	CTNBL1	0.533	1.41E-16
LINC01549	PLPPR1	0.539	5.35E-17
LINC01549	4-Sep	0.543	2.86E-17
LINC01549	CRLS1	0.544	2.55E-17
LINC01549	TSPAN5	0.545	2.15E-17
LINC01549	SLC14A2	0.546	1.73E-17
LINC01549	ADIG	0.547	1.38E-17
LINC01549	SULT4A1	0.549	1.06E-17
LINC01549	ASPCR1	0.549	1.08E-17
LINC01549	GREB1	0.555	4.04E-18
LINC01549	SNTG1	0.556	3.71E-18
LINC01549	LRRC52	0.556	3.61E-18
LINC01549	GLUL	0.557	2.97E-18
LINC01549	LUZP2	0.563	1.08E-18
LINC01549	TNFRSF19	0.563	1.05E-18
LINC01549	RASGRF1	0.566	6.07E-19
LINC01549	SPARCL1	0.567	5.29E-19
LINC01549	NKD1	0.576	1.15E-19
LINC01549	MYH3	0.579	6.12E-20
LINC01549	IQCH	0.584	2.52E-20
LINC01549	TBX4	0.584	2.33E-20
LINC01549	NOTUM	0.584	2.56E-20
LINC01549	C1orf64	0.585	2.17E-20
LINC01549	C1QTNF3	0.595	3.41E-21
LINC01549	CA5B	0.597	2.35E-21
LINC01549	AQP6	0.606	4.07E-22
LINC01549	CTNNA2	0.606	3.95E-22
LINC01549	CDH22	0.623	1.20E-23

LINC02086	SUGCT	-0.464	1.91E-12
LINC02086	PRAP1	-0.434	6.13E-11
LINC02086	FAM213A	-0.432	8.21E-11
LINC02086	PKLR	-0.43	9.88E-11
LINC02086	EIF4EBP3	-0.426	1.62E-10
LINC02086	TSPAN6	-0.422	2.37E-10
LINC02086	CCL15	-0.414	5.61E-10
LINC02086	TCEA3	-0.406	1.24E-09
LINC02086	SMLR1	-0.405	1.42E-09
LINC02086	CERS4	-0.403	1.71E-09
LINC02086	KIR2DL4	0.401	2.10E-09
LINC02086	B3GNT7	0.404	1.51E-09
LINC02086	IPCEF1	0.404	1.57E-09
LINC02086	CYTIP	0.405	1.44E-09
LINC02086	CDH17	0.407	1.22E-09
LINC02086	RASGRP1	0.407	1.21E-09
LINC02086	TIGIT	0.407	1.10E-09
LINC02086	FAR1	0.409	9.93E-10
LINC02086	SLFN12L	0.409	9.88E-10
LINC02086	KLRK1	0.41	8.90E-10
LINC02086	GIPR	0.41	8.45E-10
LINC02086	SLAMF7	0.41	8.52E-10
LINC02086	ABR	0.412	7.22E-10
LINC02086	ITPR3	0.414	5.47E-10
LINC02086	CD80	0.414	5.79E-10
LINC02086	PTPN22	0.415	5.02E-10
LINC02086	DMBX1	0.416	4.79E-10
LINC02086	LCP2	0.418	3.49E-10
LINC02086	KCNQ5	0.418	3.88E-10
LINC02086	ITGA4	0.418	3.67E-10
LINC02086	SYNGR3	0.42	2.84E-10
LINC02086	PTPRC	0.42	2.97E-10
LINC02086	JAK3	0.422	2.53E-10
LINC02086	WIPF1	0.424	1.93E-10
LINC02086	UNC13D	0.424	1.94E-10
LINC02086	MTHFD2	0.425	1.68E-10
LINC02086	SFMBT2	0.425	1.66E-10
LINC02086	MYOF	0.426	1.54E-10
LINC02086	PRKCQ	0.426	1.53E-10
LINC02086	CDH3	0.429	1.12E-10
LINC02086	ATP1A3	0.432	8.35E-11
LINC02086	IQGAP1	0.436	5.30E-11
LINC02086	LAX1	0.436	5.34E-11

LINC02086	SAMSN1	0.438	4.18E-11
LINC02086	SEMA6D	0.441	2.78E-11
LINC02086	STK17B	0.442	2.71E-11
LINC02086	MCOLN2	0.442	2.65E-11
LINC02086	GBP5	0.448	1.25E-11
LINC02086	RELT	0.448	1.26E-11
LINC02086	SEMA4D	0.46	2.94E-12
LINC02086	DOCK10	0.463	2.03E-12
LINC02086	ELF4	0.466	1.49E-12
LINC02086	BEND4	0.467	1.31E-12
LINC02086	CELF2	0.468	1.21E-12
LINC02086	CIITA	0.473	5.82E-13
LINC02086	IL2RB	0.48	2.49E-13
LINC02086	STYK1	0.506	6.92E-15
LINC02086	GALNT7	0.511	3.89E-15

Supplementary Table 2 LncRNA-mRNA co-expression analysis for RFS in HCC with cirrhosis

LncRNA	mRNA	Pearson correlation coefficient	pvalue
AC104117.3	TNS1	0.402	1.87E-09
AC104117.3	ZNF320	0.403	1.75E-09
AC104117.3	ZNF701	0.406	1.26E-09
AC104117.3	ZNF738	0.409	9.26E-10
AC104117.3	ZNF835	0.413	5.97E-10
AC104117.3	ZNF83	0.416	4.40E-10
AC104117.3	ZNF347	0.417	3.99E-10
AC104117.3	ITGBL1	0.418	3.68E-10
AC104117.3	ZSCAN1	0.419	3.26E-10
AC104117.3	SERPINH1	0.419	3.23E-10
AC104117.3	ZNF85	0.42	2.99E-10
AC104117.3	ZNF93	0.422	2.32E-10
AC104117.3	ZNF208	0.422	2.46E-10
AC104117.3	ZNF439	0.426	1.64E-10
AC104117.3	ZNF135	0.427	1.37E-10
AC104117.3	MAPK10	0.428	1.24E-10
AC104117.3	ZNF486	0.43	9.72E-11
AC104117.3	ZIK1	0.437	4.79E-11
AC104117.3	ZNF610	0.444	2.00E-11
AC104117.3	ZNF677	0.449	1.20E-11
AC104117.3	ZNF578	0.457	4.45E-12
AC104117.3	ZNF14	0.459	3.35E-12
AC104117.3	ZNF665	0.461	2.78E-12
AC104117.3	ZNF879	0.466	1.40E-12
AC104117.3	ZNF415	0.491	5.58E-14
AC104117.3	GRM6	0.539	5.48E-17
AC104117.3	ZNF454	0.695	3.68E-31
AC136475.3	ELFN1	0.413	6.49E-10
AC136475.3	NLRP6	0.643	1.56E-25
AC136475.3	PGGHG	0.849	8.54E-59

LINC00239	RAD54L2	-0.561	1.53E-18
LINC00239	PHLPP1	-0.537	7.11E-17
LINC00239	FMO4	-0.529	2.55E-16
LINC00239	RMND5A	-0.518	1.25E-15
LINC00239	SORD	-0.515	1.95E-15
LINC00239	POFUT1	-0.509	5.18E-15
LINC00239	GREB1	-0.506	7.67E-15
LINC00239	ALAD	-0.502	1.28E-14
LINC00239	DDI2	-0.499	2.07E-14
LINC00239	CRY2	-0.496	2.97E-14
LINC00239	PPP1R3E	-0.49	6.94E-14
LINC00239	TAPT1	-0.486	1.10E-13
LINC00239	C6orf201	-0.486	1.21E-13
LINC00239	ZNF385B	-0.485	1.31E-13
LINC00239	NFIA	-0.483	1.62E-13
LINC00239	SEC14L2	-0.479	2.68E-13
LINC00239	MYCL	-0.478	3.19E-13
LINC00239	NFIX	-0.476	4.08E-13
LINC00239	DPP4	-0.471	7.47E-13
LINC00239	GID4	-0.467	1.36E-12
LINC00239	ZSCAN21	-0.467	1.34E-12
LINC00239	PCYOX1	-0.466	1.44E-12
LINC00239	CNNM3	-0.463	2.03E-12
LINC00239	ATXN7L1	-0.461	2.91E-12
LINC00239	DMD	-0.458	3.84E-12
LINC00239	PER2	-0.457	4.59E-12
LINC00239	RANBP3L	-0.456	5.17E-12
LINC00239	TTC31	-0.454	6.33E-12
LINC00239	APBB2	-0.454	6.55E-12
LINC00239	ZNF212	-0.453	7.50E-12
LINC00239	GCFC2	-0.452	8.19E-12
LINC00239	YPEL1	-0.451	9.60E-12
LINC00239	ALDH5A1	-0.451	8.91E-12
LINC00239	NUBPL	-0.45	1.08E-11
LINC00239	DSG1	-0.45	1.02E-11
LINC00239	METTL7A	-0.449	1.17E-11
LINC00239	ZNF619	-0.448	1.36E-11
LINC00239	ZFYVE9	-0.448	1.24E-11
LINC00239	CHAD	-0.447	1.50E-11
LINC00239	ATF7IP2	-0.446	1.66E-11
LINC00239	SFXN5	-0.446	1.70E-11
LINC00239	CDHR3	-0.444	2.19E-11
LINC00239	IRS1	-0.444	2.11E-11

LINC00239	ZKSCAN1	-0.443	2.39E-11
LINC00239	EHHADH	-0.443	2.20E-11
LINC00239	PDK4	-0.443	2.40E-11
LINC00239	CELF1	-0.443	2.23E-11
LINC00239	HAUS4	-0.442	2.59E-11
LINC00239	SMO	-0.442	2.61E-11
LINC00239	SAP30L	-0.442	2.64E-11
LINC00239	MERTK	-0.441	2.91E-11
LINC00239	FAN1	-0.441	2.99E-11
LINC00239	TRPM7	-0.441	2.87E-11
LINC00239	WDPCP	-0.44	3.26E-11
LINC00239	TCP11	-0.439	3.68E-11
LINC00239	C6orf106	-0.439	3.86E-11
LINC00239	KLF12	-0.439	3.62E-11
LINC00239	ABHD1	-0.438	4.30E-11
LINC00239	PAN2	-0.438	4.05E-11
LINC00239	TCTA	-0.437	4.38E-11
LINC00239	HLF	-0.436	5.04E-11
LINC00239	CNST	-0.436	5.03E-11
LINC00239	ST3GAL3	-0.435	5.63E-11
LINC00239	ARHGAP32	-0.435	5.46E-11
LINC00239	ETFBKMT	-0.434	6.49E-11
LINC00239	ACOT13	-0.433	6.82E-11
LINC00239	DLG1	-0.433	7.51E-11
LINC00239	HERC1	-0.431	9.36E-11
LINC00239	XPC	-0.43	1.00E-10
LINC00239	FBXO38	-0.43	9.97E-11
LINC00239	SELENBP1	-0.43	1.01E-10
LINC00239	SIRT5	-0.43	9.64E-11
LINC00239	COBLL1	-0.429	1.15E-10
LINC00239	PIK3R1	-0.429	1.11E-10
LINC00239	HDAC6	-0.429	1.14E-10
LINC00239	CYP7A1	-0.427	1.36E-10
LINC00239	KAT2B	-0.426	1.57E-10
LINC00239	LGSN	-0.426	1.58E-10
LINC00239	SIK2	-0.426	1.58E-10
LINC00239	MPDZ	-0.426	1.58E-10
LINC00239	NDRG2	-0.426	1.60E-10
LINC00239	MPLKIP	-0.425	1.72E-10
LINC00239	CHN2	-0.425	1.74E-10
LINC00239	KIZ	-0.425	1.71E-10
LINC00239	RTTN	-0.424	1.92E-10
LINC00239	DRD1	-0.424	1.85E-10

LINC00239	DENND5B	-0.424	2.00E-10
LINC00239	B4GAT1	-0.424	2.00E-10
LINC00239	DLEC1	-0.423	2.09E-10
LINC00239	ZBTB14	-0.423	2.13E-10
LINC00239	RXRB	-0.422	2.51E-10
LINC00239	BACE1	-0.422	2.29E-10
LINC00239	RBBP9	-0.422	2.41E-10
LINC00239	KLHDC10	-0.419	3.48E-10
LINC00239	FNDC5	-0.417	3.90E-10
LINC00239	ECI2	-0.417	3.96E-10
LINC00239	BCAS3	-0.416	4.56E-10
LINC00239	ITPR2	-0.415	5.32E-10
LINC00239	PECR	-0.415	4.96E-10
LINC00239	CRLS1	-0.414	5.87E-10
LINC00239	SCAPER	-0.414	5.62E-10
LINC00239	CEP63	-0.413	6.45E-10
LINC00239	BRWD1	-0.412	6.93E-10
LINC00239	ATXN1	-0.412	6.62E-10
LINC00239	ZNF398	-0.412	7.24E-10
LINC00239	EIF4EBP2	-0.412	6.87E-10
LINC00239	TMEM150C	-0.41	8.66E-10
LINC00239	KLHDC1	-0.41	8.74E-10
LINC00239	CPEB3	-0.409	9.07E-10
LINC00239	TEF	-0.409	9.54E-10
LINC00239	TRIM26	-0.409	9.17E-10
LINC00239	SLC10A1	-0.409	9.10E-10
LINC00239	ZBTB18	-0.408	1.01E-09
LINC00239	RREB1	-0.408	1.05E-09
LINC00239	SERTAD2	-0.408	1.07E-09
LINC00239	CALCOCO1	-0.407	1.13E-09
LINC00239	SRD5A2	-0.407	1.18E-09
LINC00239	DEPDC5	-0.406	1.33E-09
LINC00239	USF3	-0.406	1.30E-09
LINC00239	FBLN7	-0.405	1.45E-09
LINC00239	AKAP6	-0.405	1.44E-09
LINC00239	CMTR1	-0.405	1.37E-09
LINC00239	AGMO	-0.405	1.41E-09
LINC00239	SIRT3	-0.405	1.46E-09
LINC00239	HIPK2	-0.404	1.64E-09
LINC00239	IL6R	-0.404	1.62E-09
LINC00239	CFL2	-0.403	1.67E-09
LINC00239	REN	-0.403	1.73E-09
LINC00239	SCP2	-0.402	2.02E-09

LINC00239	ZYG11B	-0.402	1.99E-09
LINC00239	CES3	-0.402	2.00E-09
LINC00239	FAM169A	-0.402	1.90E-09
LINC00239	FBXL5	-0.401	2.19E-09
LINC00239	MTHFD1	-0.401	2.21E-09
LINC00239	CD6	0.401	2.03E-09
LINC00239	TNFRSF8	0.401	2.23E-09
LINC00239	LAT2	0.401	2.18E-09
LINC00239	SLC22A31	0.401	2.09E-09
LINC00239	LEFTY1	0.401	2.12E-09
LINC00239	PERM1	0.401	2.11E-09
LINC00239	EPS8L1	0.401	2.16E-09
LINC00239	SYT13	0.402	1.98E-09
LINC00239	TUBA4A	0.402	1.88E-09
LINC00239	CDH11	0.403	1.79E-09
LINC00239	ADAM19	0.403	1.72E-09
LINC00239	GALNT7	0.404	1.61E-09
LINC00239	KIAA0930	0.404	1.55E-09
LINC00239	TYMP	0.404	1.55E-09
LINC00239	DUSP5	0.404	1.57E-09
LINC00239	GPR84	0.406	1.25E-09
LINC00239	ANKRD13D	0.406	1.28E-09
LINC00239	PKM	0.406	1.23E-09
LINC00239	ARNTL2	0.406	1.35E-09
LINC00239	SLAMF8	0.406	1.29E-09
LINC00239	LAPTM5	0.406	1.30E-09
LINC00239	PMEPA1	0.407	1.14E-09
LINC00239	PPP1R18	0.407	1.16E-09
LINC00239	FHDC1	0.407	1.14E-09
LINC00239	CPNE7	0.407	1.10E-09
LINC00239	KYNU	0.407	1.14E-09
LINC00239	IL18	0.407	1.22E-09
LINC00239	OSMR	0.407	1.21E-09
LINC00239	HTRA3	0.408	1.02E-09
LINC00239	GLI1	0.408	1.08E-09
LINC00239	PLIN3	0.408	1.05E-09
LINC00239	NCALD	0.408	1.07E-09
LINC00239	SPP1	0.408	1.09E-09
LINC00239	HDAC7	0.408	1.08E-09
LINC00239	RUNDC3A	0.409	9.14E-10
LINC00239	ORAI2	0.409	9.58E-10
LINC00239	TMEM154	0.409	9.10E-10
LINC00239	TMIGD3	0.409	9.06E-10

LINC00239	IL17D	0.409	9.17E-10
LINC00239	IL2RA	0.41	8.32E-10
LINC00239	ISG20	0.41	8.24E-10
LINC00239	SLC6A3	0.41	8.88E-10
LINC00239	CREB3L1	0.41	8.39E-10
LINC00239	IL27RA	0.41	8.27E-10
LINC00239	PDCL3	0.41	8.83E-10
LINC00239	LINC00694	0.41	8.17E-10
LINC00239	KIF26B	0.411	7.38E-10
LINC00239	SIGLEC10	0.411	7.92E-10
LINC00239	LY96	0.411	7.55E-10
LINC00239	S100A3	0.412	6.94E-10
LINC00239	SOCS1	0.412	6.94E-10
LINC00239	SPINT1	0.414	5.58E-10
LINC00239	NPL	0.414	5.79E-10
LINC00239	BLVRA	0.414	5.49E-10
LINC00239	FCGR1A	0.414	5.90E-10
LINC00239	IFI27L2	0.414	5.59E-10
LINC00239	TLDC1	0.415	5.24E-10
LINC00239	ALOX5	0.415	5.11E-10
LINC00239	KCNN4	0.415	5.07E-10
LINC00239	PTGDS	0.415	5.11E-10
LINC00239	ASPHD1	0.416	4.48E-10
LINC00239	TJP3	0.416	4.64E-10
LINC00239	CARD19	0.416	4.38E-10
LINC00239	ENTPD1	0.416	4.66E-10
LINC00239	RAP1GAP	0.416	4.69E-10
LINC00239	FXYD2	0.416	4.41E-10
LINC00239	SEMA4D	0.416	4.64E-10
LINC00239	MFSD10	0.416	4.41E-10
LINC00239	INSL3	0.417	4.24E-10
LINC00239	WNT10A	0.417	3.94E-10
LINC00239	F2RL1	0.417	4.00E-10
LINC00239	GGT1	0.417	4.21E-10
LINC00239	MTHFD1L	0.417	4.03E-10
LINC00239	CRLF2	0.418	3.87E-10
LINC00239	IL21R	0.418	3.63E-10
LINC00239	IER5L	0.418	3.58E-10
LINC00239	DENND3	0.418	3.74E-10
LINC00239	IL15RA	0.418	3.87E-10
LINC00239	SLC35E4	0.418	3.86E-10
LINC00239	ARHGEF16	0.419	3.43E-10
LINC00239	C12orf49	0.419	3.48E-10

LINC00239	PLP2	0.419	3.40E-10
LINC00239	OSM	0.419	3.36E-10
LINC00239	TMEM158	0.419	3.20E-10
LINC00239	MTHFD2	0.42	3.02E-10
LINC00239	ADAMTS14	0.42	2.85E-10
LINC00239	TMEM45A	0.42	2.88E-10
LINC00239	TMEM163	0.421	2.76E-10
LINC00239	TGM2	0.421	2.73E-10
LINC00239	CMTM7	0.421	2.78E-10
LINC00239	PIP4K2A	0.421	2.66E-10
LINC00239	HAPLN3	0.422	2.49E-10
LINC00239	TBC1D10C	0.422	2.39E-10
LINC00239	ADRA2A	0.422	2.28E-10
LINC00239	CCL19	0.422	2.48E-10
LINC00239	MMP7	0.422	2.35E-10
LINC00239	DPEP1	0.423	2.23E-10
LINC00239	IL4I1	0.423	2.15E-10
LINC00239	ALDOA	0.423	2.09E-10
LINC00239	ANXA2	0.423	2.23E-10
LINC00239	PKIB	0.423	2.11E-10
LINC00239	EGLN3	0.424	1.89E-10
LINC00239	CCL20	0.424	1.94E-10
LINC00239	FXYS5	0.424	1.94E-10
LINC00239	RELT	0.424	1.97E-10
LINC00239	FGD3	0.425	1.75E-10
LINC00239	ALOX5AP	0.425	1.75E-10
LINC00239	VSIG1	0.425	1.81E-10
LINC00239	MRC2	0.425	1.82E-10
LINC00239	GBGT1	0.426	1.59E-10
LINC00239	ANO9	0.427	1.36E-10
LINC00239	S1PR2	0.427	1.47E-10
LINC00239	TLE6	0.427	1.38E-10
LINC00239	TMSB10	0.427	1.46E-10
LINC00239	YWHAZ	0.428	1.23E-10
LINC00239	GSKIP	0.428	1.31E-10
LINC00239	SYNGR2	0.428	1.28E-10
LINC00239	CHST11	0.428	1.30E-10
LINC00239	TMEM165	0.428	1.19E-10
LINC00239	STMN2	0.428	1.20E-10
LINC00239	FAM57A	0.429	1.07E-10
LINC00239	FZD2	0.429	1.17E-10
LINC00239	KIAA1324	0.429	1.18E-10
LINC00239	VCAN	0.429	1.16E-10

LINC00239	TOX	0.43	1.02E-10
LINC00239	KCNE5	0.43	1.04E-10
LINC00239	HSH2D	0.43	1.05E-10
LINC00239	SULT1C2	0.431	9.40E-11
LINC00239	ACSL4	0.431	8.94E-11
LINC00239	GPSM3	0.431	9.42E-11
LINC00239	SDCBP2	0.431	8.69E-11
LINC00239	ARHGAP45	0.431	9.45E-11
LINC00239	GPR68	0.431	8.52E-11
LINC00239	CAPG	0.431	8.74E-11
LINC00239	B3GNT3	0.432	8.17E-11
LINC00239	PTP4A3	0.433	7.28E-11
LINC00239	UAPIL1	0.434	6.11E-11
LINC00239	S100A4	0.434	6.69E-11
LINC00239	SERPINB1	0.434	6.23E-11
LINC00239	SNAI3	0.434	6.17E-11
LINC00239	UPP1	0.434	6.47E-11
LINC00239	BCL2A1	0.434	6.70E-11
LINC00239	MFNG	0.435	5.76E-11
LINC00239	RGS10	0.435	5.77E-11
LINC00239	NNMT	0.435	5.75E-11
LINC00239	PYCARD	0.435	5.70E-11
LINC00239	PDPN	0.436	5.26E-11
LINC00239	SLC22A15	0.436	4.88E-11
LINC00239	SLC1A5	0.436	4.89E-11
LINC00239	CASP4	0.438	4.32E-11
LINC00239	RHOV	0.439	3.64E-11
LINC00239	PDLIM7	0.439	3.75E-11
LINC00239	CD68	0.44	3.39E-11
LINC00239	PCBP3	0.44	3.31E-11
LINC00239	KCNK15	0.44	3.19E-11
LINC00239	PCED1B	0.441	3.03E-11
LINC00239	AGA	0.441	3.00E-11
LINC00239	UBASH3B	0.441	2.96E-11
LINC00239	ZMYND15	0.441	2.79E-11
LINC00239	RSPH1	0.441	2.93E-11
LINC00239	PBX4	0.441	2.79E-11
LINC00239	TMEM156	0.442	2.76E-11
LINC00239	PNMA1	0.442	2.51E-11
LINC00239	LIMK1	0.443	2.34E-11
LINC00239	ADAMDEC1	0.443	2.22E-11
LINC00239	RELB	0.443	2.31E-11
LINC00239	EMILIN2	0.444	2.18E-11

LINC00239	FUT4	0.444	2.14E-11
LINC00239	SERPINB8	0.445	1.89E-11
LINC00239	LIMK2	0.445	1.82E-11
LINC00239	IL2RG	0.445	1.95E-11
LINC00239	KNDC1	0.446	1.68E-11
LINC00239	SFMBT2	0.446	1.57E-11
LINC00239	SFXN3	0.447	1.45E-11
LINC00239	ADAM28	0.447	1.45E-11
LINC00239	TPM4	0.449	1.22E-11
LINC00239	PAEP	0.45	9.74E-12
LINC00239	CYBA	0.451	9.21E-12
LINC00239	LRP10	0.451	8.94E-12
LINC00239	LEPROTL1	0.451	9.36E-12
LINC00239	PLEKHB2	0.452	8.08E-12
LINC00239	SLC7A1	0.452	7.69E-12
LINC00239	SH2D2A	0.452	7.71E-12
LINC00239	GCNT3	0.453	6.79E-12
LINC00239	KCTD17	0.453	7.58E-12
LINC00239	ECEL1	0.454	6.31E-12
LINC00239	LTB	0.455	5.98E-12
LINC00239	MICAL1	0.455	5.57E-12
LINC00239	GRAMD1A	0.455	5.53E-12
LINC00239	IRF4	0.456	5.31E-12
LINC00239	SEL1L3	0.456	5.10E-12
LINC00239	S100A11	0.456	5.10E-12
LINC00239	COL8A2	0.457	4.29E-12
LINC00239	CHRD2	0.458	3.90E-12
LINC00239	FAP	0.458	4.07E-12
LINC00239	GLTP	0.46	3.19E-12
LINC00239	C2CD4A	0.461	2.61E-12
LINC00239	STRA6	0.461	2.87E-12
LINC00239	PCNX2	0.462	2.38E-12
LINC00239	GMIP	0.462	2.45E-12
LINC00239	GFPT2	0.462	2.31E-12
LINC00239	S100A6	0.463	2.17E-12
LINC00239	MBOAT4	0.463	2.13E-12
LINC00239	RGS2	0.463	2.13E-12
LINC00239	HAVCR2	0.464	2.01E-12
LINC00239	CTHRC1	0.464	1.86E-12
LINC00239	ANXA5	0.465	1.63E-12
LINC00239	DGKG	0.465	1.67E-12
LINC00239	EPO	0.465	1.59E-12
LINC00239	TNFSF13B	0.465	1.74E-12

LINC00239	P2RX5	0.466	1.42E-12
LINC00239	IMPDH1	0.466	1.50E-12
LINC00239	TRPM2	0.467	1.31E-12
LINC00239	FAM19A5	0.468	1.16E-12
LINC00239	SMOX	0.468	1.14E-12
LINC00239	GPRIN3	0.468	1.18E-12
LINC00239	SLC2A6	0.468	1.23E-12
LINC00239	MUC13	0.469	1.05E-12
LINC00239	SPOCK2	0.469	1.08E-12
LINC00239	CPXM1	0.469	1.03E-12
LINC00239	GRAMD1B	0.471	7.58E-13
LINC00239	S100A9	0.472	7.12E-13
LINC00239	LIF	0.472	6.78E-13
LINC00239	LGI2	0.473	5.84E-13
LINC00239	MPZL1	0.473	6.08E-13
LINC00239	TRNP1	0.473	5.88E-13
LINC00239	RASAL1	0.475	4.83E-13
LINC00239	ADGRE5	0.475	4.88E-13
LINC00239	GAL3ST4	0.475	4.60E-13
LINC00239	KCNF1	0.476	4.48E-13
LINC00239	RIN1	0.476	4.26E-13
LINC00239	CD58	0.477	3.80E-13
LINC00239	CXCL16	0.477	3.64E-13
LINC00239	LPAR2	0.479	2.94E-13
LINC00239	IKBKE	0.482	1.95E-13
LINC00239	FCHO1	0.482	1.88E-13
LINC00239	PLAUR	0.483	1.69E-13
LINC00239	MMP9	0.485	1.39E-13
LINC00239	HOPX	0.486	1.21E-13
LINC00239	RHOH	0.491	5.74E-14
LINC00239	LPCAT1	0.492	5.34E-14
LINC00239	LPCAT4	0.493	4.29E-14
LINC00239	SELENOM	0.494	3.82E-14
LINC00239	VASP	0.494	3.74E-14
LINC00239	WNT10B	0.496	3.07E-14
LINC00239	ARL14	0.497	2.53E-14
LINC00239	SRPX2	0.499	2.08E-14
LINC00239	JAK3	0.5	1.80E-14
LINC00239	LGALS3	0.501	1.51E-14
LINC00239	TMC6	0.504	9.24E-15
LINC00239	FA2H	0.506	7.32E-15
LINC00239	SYNGR3	0.507	6.73E-15
LINC00239	ADAM12	0.509	5.03E-15

LINC00239	HKDC1	0.51	4.35E-15
LINC00239	SLC7A7	0.512	3.06E-15
LINC00239	GOLM1	0.512	3.11E-15
LINC00239	FMNL1	0.514	2.22E-15
LINC00239	TMC5	0.514	2.40E-15
LINC00239	TIMP1	0.516	1.69E-15
LINC00239	IER3	0.517	1.46E-15
LINC00239	CRP	0.521	8.03E-16
LINC00239	ARHGAP22	0.529	2.55E-16
LINC00239	CCDC88B	0.535	1.03E-16
LINC00239	PHLDA2	0.548	1.36E-17
LINC00239	TESC	0.55	8.90E-18
LINC00239	SLC16A3	0.556	3.45E-18
LINC00239	SH3BGRL3	0.566	6.52E-19
LINC00239	ARPC1B	0.605	4.82E-22
LINC00239	ST6GALNAC4	0.686	3.73E-30
MRPL23-AS1	SSX2IP	-0.449	1.10E-11
MRPL23-AS1	SP100	-0.446	1.56E-11
MRPL23-AS1	GLRX	-0.43	9.63E-11
MRPL23-AS1	MAT2B	-0.422	2.43E-10
MRPL23-AS1	ME3	-0.418	3.61E-10
MRPL23-AS1	GCLM	-0.418	3.70E-10
MRPL23-AS1	ALDH1A1	-0.411	7.60E-10
MRPL23-AS1	OXNAD1	-0.409	9.20E-10
MRPL23-AS1	WDR44	-0.409	9.24E-10
MRPL23-AS1	NAMPT	-0.407	1.11E-09
MRPL23-AS1	RAB34	0.401	2.23E-09
MRPL23-AS1	ZNF496	0.404	1.51E-09
MRPL23-AS1	AATK	0.405	1.40E-09
MRPL23-AS1	CCDC154	0.407	1.14E-09
MRPL23-AS1	PTGDR2	0.408	1.09E-09
MRPL23-AS1	ZCCHC3	0.413	6.54E-10
MRPL23-AS1	ZNF552	0.413	6.46E-10
MRPL23-AS1	RCE1	0.419	3.47E-10
MRPL23-AS1	ASXL1	0.419	3.20E-10
MRPL23-AS1	PDE9A	0.419	3.45E-10
MRPL23-AS1	ZNF70	0.419	3.22E-10
MRPL23-AS1	GAL3ST1	0.42	3.08E-10
MRPL23-AS1	WNK2	0.426	1.50E-10
MRPL23-AS1	NREP	0.431	8.57E-11
MRPL23-AS1	SEMA4C	0.431	9.38E-11
MRPL23-AS1	MAPK13	0.432	7.94E-11
MRPL23-AS1	FGFR3	0.433	6.98E-11

MRPL23-AS1	SLC45A4	0.434	6.22E-11
MRPL23-AS1	DLK2	0.436	5.02E-11
MRPL23-AS1	BMF	0.439	3.49E-11
MRPL23-AS1	BCAM	0.44	3.11E-11
MRPL23-AS1	TRIM71	0.441	3.08E-11
MRPL23-AS1	CNOT11	0.442	2.75E-11
MRPL23-AS1	ACPT	0.446	1.59E-11
MRPL23-AS1	DNMT3A	0.457	4.21E-12
MRPL23-AS1	BPIFB2	0.46	2.93E-12
MRPL23-AS1	PLAGL2	0.467	1.36E-12
MRPL23-AS1	AFP	0.469	9.76E-13
MRPL23-AS1	SALL4	0.475	4.62E-13
MRPL23-AS1	AC009014.1	0.495	3.19E-14
MRPL23-AS1	HIC2	0.508	5.57E-15
MRPL23-AS1	ARID3A	0.555	4.27E-18
MRPL23-AS1	IGF2	0.58	5.72E-20
SH3RF3-AS1	SHD	-0.449	1.14E-11
SH3RF3-AS1	CLDN3	-0.437	4.47E-11
SH3RF3-AS1	MCM7	-0.43	9.79E-11
SH3RF3-AS1	RASSF7	-0.426	1.56E-10
SH3RF3-AS1	MND1	-0.422	2.32E-10
SH3RF3-AS1	FOXD2	-0.422	2.41E-10
SH3RF3-AS1	ECE2	-0.419	3.28E-10
SH3RF3-AS1	PSMG3	-0.415	5.08E-10
SH3RF3-AS1	FOXA3	-0.414	5.73E-10
SH3RF3-AS1	PCP2	-0.414	5.85E-10
SH3RF3-AS1	CBLC	-0.414	5.50E-10
SH3RF3-AS1	NUDT1	-0.408	1.09E-09
SH3RF3-AS1	KPNA7	-0.404	1.61E-09
SH3RF3-AS1	RNASEH2A	-0.401	2.14E-09
SH3RF3-AS1	EPHB2	0.401	2.21E-09
SH3RF3-AS1	SSPN	0.403	1.72E-09
SH3RF3-AS1	DKK3	0.403	1.73E-09
SH3RF3-AS1	SYDE1	0.403	1.68E-09
SH3RF3-AS1	CD93	0.404	1.58E-09
SH3RF3-AS1	ZEB1	0.404	1.57E-09
SH3RF3-AS1	NRP1	0.404	1.57E-09
SH3RF3-AS1	ARHGAP23	0.404	1.53E-09
SH3RF3-AS1	PDZRN3	0.405	1.37E-09
SH3RF3-AS1	SAMD8	0.405	1.38E-09
SH3RF3-AS1	CACNA1C	0.405	1.40E-09
SH3RF3-AS1	CAVIN2	0.406	1.27E-09
SH3RF3-AS1	NEXN	0.407	1.17E-09

SH3RF3-AS1	ARHGAP31	0.408	1.09E-09
SH3RF3-AS1	GXYLT2	0.408	1.07E-09
SH3RF3-AS1	CASS4	0.408	1.08E-09
SH3RF3-AS1	ADGRF5	0.409	9.00E-10
SH3RF3-AS1	SLC6A2	0.409	9.37E-10
SH3RF3-AS1	PANX1	0.409	9.59E-10
SH3RF3-AS1	KLF7	0.41	8.80E-10
SH3RF3-AS1	TGFB2	0.411	7.92E-10
SH3RF3-AS1	FAM198B	0.411	7.47E-10
SH3RF3-AS1	FLT1	0.411	7.82E-10
SH3RF3-AS1	OSBPL11	0.412	6.65E-10
SH3RF3-AS1	ADAMTSL1	0.412	6.71E-10
SH3RF3-AS1	STARD13	0.412	7.28E-10
SH3RF3-AS1	ETS1	0.415	4.86E-10
SH3RF3-AS1	TACC1	0.416	4.38E-10
SH3RF3-AS1	CDH5	0.417	4.23E-10
SH3RF3-AS1	SPARCL1	0.419	3.29E-10
SH3RF3-AS1	ENOX1	0.419	3.16E-10
SH3RF3-AS1	SEC14L1	0.419	3.48E-10
SH3RF3-AS1	TMEM178B	0.42	3.02E-10
SH3RF3-AS1	RBP1	0.421	2.71E-10
SH3RF3-AS1	ZNF703	0.422	2.30E-10
SH3RF3-AS1	RBMS1	0.422	2.50E-10
SH3RF3-AS1	TWIST2	0.424	1.89E-10
SH3RF3-AS1	TSPAN5	0.424	1.93E-10
SH3RF3-AS1	PLAT	0.426	1.48E-10
SH3RF3-AS1	ASAP2	0.426	1.60E-10
SH3RF3-AS1	MAML2	0.426	1.49E-10
SH3RF3-AS1	PARVA	0.428	1.25E-10
SH3RF3-AS1	CTTNBP2	0.43	9.68E-11
SH3RF3-AS1	ST6GALNAC3	0.431	9.19E-11
SH3RF3-AS1	SNTB2	0.431	8.59E-11
SH3RF3-AS1	OXCT1	0.432	7.82E-11
SH3RF3-AS1	CXCL12	0.434	6.80E-11
SH3RF3-AS1	TIMP3	0.435	5.66E-11
SH3RF3-AS1	LPCAT2	0.435	5.78E-11
SH3RF3-AS1	TGFBR2	0.436	5.05E-11
SH3RF3-AS1	PHACTR2	0.44	3.46E-11
SH3RF3-AS1	FGFR1	0.441	2.82E-11
SH3RF3-AS1	PTPRB	0.441	3.04E-11
SH3RF3-AS1	THBD	0.442	2.72E-11
SH3RF3-AS1	ATP1A2	0.443	2.36E-11
SH3RF3-AS1	ALDH1L2	0.445	1.79E-11

SH3RF3-AS1	BOC	0.446	1.61E-11
SH3RF3-AS1	CNTNAP3	0.446	1.69E-11
SH3RF3-AS1	DISC1	0.446	1.55E-11
SH3RF3-AS1	LIMS1	0.446	1.65E-11
SH3RF3-AS1	USP53	0.447	1.39E-11
SH3RF3-AS1	PGM5	0.448	1.24E-11
SH3RF3-AS1	MEGF6	0.448	1.25E-11
SH3RF3-AS1	MATN3	0.449	1.10E-11
SH3RF3-AS1	ATP10A	0.451	8.70E-12
SH3RF3-AS1	ITGA2	0.452	8.58E-12
SH3RF3-AS1	TNFRSF19	0.459	3.32E-12
SH3RF3-AS1	PTPRM	0.459	3.54E-12
SH3RF3-AS1	PTPRG	0.463	2.22E-12
SH3RF3-AS1	RAB30	0.464	1.90E-12
SH3RF3-AS1	SH3BP5	0.467	1.35E-12
SH3RF3-AS1	THSD1	0.468	1.12E-12
SH3RF3-AS1	ANGPTL2	0.469	1.07E-12
SH3RF3-AS1	TSPAN11	0.47	9.18E-13
SH3RF3-AS1	PRAG1	0.471	8.19E-13
SH3RF3-AS1	IL1R1	0.48	2.52E-13
SH3RF3-AS1	FAM180A	0.481	2.11E-13
SH3RF3-AS1	LUZP1	0.481	2.11E-13
SH3RF3-AS1	RASGRF1	0.482	1.93E-13
SH3RF3-AS1	LMOD1	0.484	1.44E-13
SH3RF3-AS1	CRIM1	0.49	6.77E-14
SH3RF3-AS1	PREX2	0.495	3.41E-14
SH3RF3-AS1	TRIB2	0.497	2.50E-14
SH3RF3-AS1	NRP2	0.498	2.35E-14
SH3RF3-AS1	CHST15	0.5	1.63E-14
SH3RF3-AS1	SERTAD4	0.507	6.76E-15
SH3RF3-AS1	RARB	0.514	2.23E-15
SH3RF3-AS1	FMNL2	0.548	1.31E-17
SH3RF3-AS1	SH3RF3	0.808	6.05E-49

Supplementary Figure 1. Wnt signaling pathway



