

Supplementary Table 1 The clinical conditions of 30 samples

No.	Sampling time	Pathological type	ER positive rate	PR positive rate	HER2 status	Ki-67 expression	Lymph node stage	Tumor size	Age	side of affected breast
A01	2020.12.18	Invasive carcinoma	70%	80%	negative	30%	N2	T2	48	R
A02	2020.12.21	Invasive carcinoma	80%	80%	negative	30%	N1	T2	51	R
A03	2020.12.23	Invasive carcinoma	80%	80%	negative	20%	N0	T1	71	L
A04	2020.12.23	Invasive carcinoma	90%	90%	negative	20%	N0	T1	36	L
A05	2020.12.24	Invasive carcinoma	90%	70%	negative	50%	N1	T2	44	L
A06	2020.12.16	Invasive carcinoma	100%	100%	negative	10%	N2	T3	50	R
B01	2021.01.11	Invasive carcinoma	80%	0%	negative	15%	N1	T1	39	R
B02	2020.12.21	Invasive carcinoma	90%	1%	negative	10%	N1	T1	27	R
B03	2020.12.23	Invasive carcinoma	15%	5%	negative	40%	N1	T2	37	L
B04	2020.12.23	Invasive carcinoma	90%	5%	negative	30%	N0	T2	63	L
B05	2021.01.13	Invasive carcinoma	90%	10%	negative	30%	N0	T1	48	L
B06	2021.01.04	Invasive carcinoma	50%	20%	negative	20%	N3	T3	61	L
C01	2020.01.11	Invasive carcinoma	80%	60%	Positive	20%	N0	T1	47	R
C02	2020.12.25	Invasive carcinoma	80%	80%	Positive	40%	N1	T2	50	R
C03	2020.12.25	Invasive carcinoma	80%	40%	Positive	40%	N2	T2	58	R
C04	2020.12.30	Invasive carcinoma	40%	40%	Positive	30%	N1	T2	38	R
C05	2021.01.06	Invasive carcinoma	0%	5%	Positive	40%	N0	T1	55	R
C06	2021.01.20	Invasive carcinoma	40%	25%	Positive	40%	N0	T1	53	L
D01	2020.12.18	Invasive carcinoma	0%	0%	Positive	50%	N0	T1	43	L
D02	2020.12.23	Invasive carcinoma	0%	0%	Positive	40%	N0	T1	59	L
D03	2020.12.28	Invasive carcinoma	0%	0%	Positive	40%	N1	T2	48	L
D04	2021.01.06	Invasive carcinoma	0%	0%	Positive	30%	N0	T2	58	L
D05	2021.01.08	Invasive carcinoma	0%	0%	Positive	70%	N1	T2	52	R

No.	Sampling time	Pathological type	ER positive rate	PR positive rate	HER2 status	Ki-67 expression	Lymph node stage	Tumor size	Age	side of affected breast
D06	2021.01.11	Invasive carcinoma	0%	0%	Positive	30%	N1	T1	55	R
E01	2020.12.14	Invasive carcinoma	0%	0%	negative	30%	N1	T2	57	R
E02	2020.12.25	Invasive carcinoma	0%	0%	negative	80%	N0	T1	39	R
E03	2020.12.25	Invasive carcinoma	0%	0%	negative	40%	N1	T1	48	R
E04	2020.12.28	Invasive carcinoma	0%	0%	negative	30%	N1	T2	54	L
E05	2021.01.25	Invasive carcinoma	0%	0%	negative	30%	N3	T2	59	L
E06	2021.01.22	Invasive carcinoma	0%	0%	negative	70%	N0	T1	44	R

Group A. ER(+) and positive rate $\geq 70\%$, PR(+) and positive rate $\geq 70\%$, HER2(-); Group B. ER(+), PR(+) and positive rate $\leq 20\%$ or PR(-), HER2(-); Group C. Positive for either estrogen or progesterone receptor or both, HER2(-); Group D. ER(-), PR(-), HER2(+). Group E. ER(-), PR(-), HER2(-).

Supplementary Table 2 The clinical conditions and follow-up results of the 50 patients

No.	Operation time	Pathologic type	ER positive rate	PR positive rate	HER2 status	Ki-67 expression	Lymph node stage	Tumor stage	Age	Alive/Death	Metastasis site	Metastasis time	Time of death	Survival time (D)	PFS (D)	Disease side	T SCD1 %	T SORBS1 %	Cause of death
1	2015.01.05	Invasive carcinoma	80%	70%	Negative	35%	N2	T2	48	Alive	None			2321	2321	R	5	60	
2	2015.01.05	Invasive carcinoma	0%	0%	Positive	30%	N1	T1	55	Alive	None			2321	2321	R	15	70	
3	2015.01.05	Invasive carcinoma	0%	0%	Positive	40%	N1	T2	48	Alive	Soft tissue of chest wall and liver	2018.03.18		2321	1168	L	55	15	
4	2015.01.09	Invasive carcinoma	80%	5%	Negative	15%	N2	T2	49	Alive	skeleton	2017.04.21		2317	833	R	60	15	
5	2015.01.12	Invasive carcinoma	80%	90%	Negative	25%	N0	T1	72	Alive	None			2314	2314	L	10	70	
6	2015.01.12	Invasive carcinoma	0%	0%	Positive	70%	N2	T2	50	Alive	Brain and skeleton and soft tissue of chest wall	2018.12.24		2314	1442	R	70	5	
7	2015.01.12	Invasive carcinoma	0%	0%	Negative	30%	N1	T2	57	Alive	None			2314	2314	R	20	40	
8	2015.01.14	Invasive carcinoma	90%	70%	Negative	50%	N1	T2	45	Alive	Lung	2020.12.11		2312	2158	L	65	10	
9	2015.01.14	Invasive carcinoma	20%	5%	Negative	40%	N1	T2	37	Alive	Lung	2017.02.26		2312	1139	L	60	15	
10	2015.01.16	Invasive carcinoma	70%	80%	Positive	40%	N1	T2	50	Alive	None			2310	2310	R	5	65	

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11	2015.01.19	Invasive carcinoma	20%	10%	Negative	60%	N0	T1	36	Alive	skeleton and ipsilateral breast	2016.12.05		2307	686	R	40	20	
12	2015.01.19	Invasive carcinoma	90%	80%	Negative	40%	N0	T1	49	Alive	None			2307	2307	L	15	50	
13	2015.01.21	Invasive carcinoma	0%	0%	Positive	70%	N1	T2	52	Death	Brain	2016.01.24	2017.12.01	1045	368	R	70	5	Breast cancer
14	2015.01.23	Invasive carcinoma	85%	0%	Negative	15%	N1	T1	39	Alive	None			2303	2303	R	5	5	
15	2015.01.26	Invasive carcinoma	90%	1%	Negative	10%	N1	T1	26	Alive	None			2300	2300	R	15	15	
16	2015.01.28	Invasive carcinoma	0%	0%	Negative	70%	N0	T1	44	Alive	Brain and skeleton	2018.03.12		2298	1139	R	75	20	
17	2015.01.30	Invasive carcinoma	90%	5%	Negative	30%	N0	T2	63	Alive	skeleton	2019.05.06		2296	1557	L	55	20	
18	2015.01.30	Invasive carcinoma	0%	0%	Negative	80%	N0	T1	37	Death	Brain	2016.01.14	2016.10.01	610	349	R	85	0	Breast cancer
19	2015.02.02	Invasive carcinoma	55%	20%	Negative	20%	N3	T3	65	Alive	Liver	2017.08.09		2293	919	L	65	5	
20	2015.02.02	Invasive carcinoma	0%	0%	Positive	40%	N0	T1	59	Alive	Brain and liver	2017.03.15		2293	772	L	70	15	
21	2015.02.06	Invasive carcinoma	90%	80%	Negative	30%	N1	T2	50	Alive	None			2289	2289	R	10	80	

No.	Operation time	Pathologic type	ER positive rate	PR positive rate	HER2 status	Ki-67 expression	Lymph node stage	Tumor stage	Age	Alive/Death	Metastasis site	Metastasis time	Time of death	Survival time (D)	PFS (D)	Disease side	T SCD1 %	T SORBS1 %	Cause of death
22	2015.02.06	Invasive carcinoma	0%	0%	Negative	30%	N3	T2	58	Death	Brain and lung	2020.07.20	2021.01.01	2156	1991	L	65	5	Breast cancer
23	2015.02.09	Invasive carcinoma	60%	60%	Positive	20%	N0	T1	47	Alive	None			2286	2286	R	10	15	
24	2015.02.09	Invasive carcinoma	80%	30%	Positive	40%	N2	T2	56	Alive	Lung and liver	2018.01.22		2286	1078	R	50	55	
25	2015.02.27	Invasive carcinoma	40%	30%	Positive	30%	N1	T2	36	Alive	Pelvic cavity	2020.05.17		2268	1906	R	60	40	
26	2015.02.27	Invasive carcinoma	10%	5%	Positive	40%	N0	T1	55	Alive	Soft tissue of chest wall	2018.07.12		2268	1231	R	60	35	
27	2015.02.27	Invasive carcinoma	30%	25%	Positive	40%	N0	T1	53	Alive	None			2268	2268	L	30	65	
28	2015.03.02	Invasive carcinoma	0%	0%	Positive	45%	N0	T1	44	Alive	Brain	2017.12.12		2265	1016	L	70	0	
29	2015.03.02	Invasive carcinoma	0%	0%	Negative	40%	N1	T1	48	Alive	Lung and liver	2018.07.19		2265	1235	R	25	0	
30	2015.03.02	Invasive carcinoma	90%	90%	Negative	10%	N3	T3	50	Alive	None			2265	2265	R	70	90	
31	2015.03.04	Invasive carcinoma	0%	0%	Positive	30%	N2	T2	60	Alive	None			2263	2263	L	10	60	
32	2015.03.06	Invasive carcinoma	100%	100%	Negative	10%	N2	T3	48	Alive	None			2261	2261	R	25	80	

No.	Operation time	Pathologic type	ER positive rate	PR positive rate	HER2 status	Ki-67 expression	Lymph node stage	Tumor stage	Age	Alive/Death	Metastasis site	Metastasis time	Time of death	Survival time (D)	PFS (D)	Disease side	T SCD1 %	T SORBS1 %	Cause of death
33	2015.03.06	Invasive carcinoma	0%	0%	Negative	80%	N0	T2	47	Death	Brain and soft tissue of chest wall and liver and lung	2015.10.26	2016.09.01	545	234	L	80	10	Breast cancer
34	2015.03.06	Invasive carcinoma	90%	90%	Negative	10%	N0	T1	36	Alive	None			2261	2261	L	15	70	
35	2015.03.06	Invasive carcinoma	1%	40%	Negative	50%	N3	T3	58	Alive	Lung and liver and skeleton	2016.06.15		2261	467	L	70	20	
36	2015.03.09	Invasive carcinoma	0%	0%	Negative	30%	N1	T2	54	Alive	None			2258	2258	L	20	60	
37	2015.03.09	Invasive carcinoma	80%	70%	Negative	15%	N1	T2	42	Alive	None			2258	2258	L	15	75	
38	2015.03.09	Invasive carcinoma	80%	80%	Negative	40%	N3	T3	40	Alive	Liver and skeleton	2020.10.23		2258	2055	R	80	25	
39	2015.03.09	Invasive carcinoma	0%	0%	Negative	70%	N3	T2	53	Death	Soft tissue of chest wall and liver and lung	2017.02.17	2019.05.01	1514	711	R	90	0	Breast cancer
40	2015.03.09	Invasive carcinoma	30%	30%	Negative	30%	N0	T1	34	Alive	None			2258	2258	L	25	90	
41	2015.03.11	Invasive carcinoma	90%	95%	Negative	20%	N0	T1	37	Alive	None			2256	2256	L	15	65	
42	2015.03.13	Invasive carcinoma	90%	0%	Negative	20%	N3	T2	66	Alive	Lung and skeleton	2018.12.07		2254	1365	L	55	45	

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43	2015.03.13	Invasive carcinoma	0%	10%	Positive	20%	N1	T1	50	Alive	Lung	2020.05.16		2254	1891	R	75	15	
44	2015.03.16	Invasive carcinoma	90%	15%	Negative	30%	N0	T1	48	Alive	None			2251	2251	L	25	60	
45	2015.03.16	Invasive carcinoma	90%	60%	Negative	30%	N2	T2	58	Alive	None			2251	2251	R	30	70	
46	2015.03.16	Invasive carcinoma	0%	0%	Negative	40%	N0	T1	54	Alive	None			2251	2251	R	25	65	
47	2015.03.18	Invasive carcinoma	0%	0%	Positive	30%	N0	T2	56	Alive	Regional lymph nodes	2021.01.12		2249	2127	L	55	45	
48	2015.03.20	Invasive carcinoma	90%	5%	Negative	40%	N2	T2	53	Alive	Skeleton	2019.04.09		2247	1481	L	60	70	
49	2015.03.20	Invasive carcinoma	80%	20%	Negative	30%	N2	T2	58	Alive	Skeleton	2020.09.22		2247	2013	R	65	25	
50	2015.03.23	Invasive carcinoma	90%	90%	Negative	30%	N0	T1	47	Alive	None			2244	2244	L	70	5	

Supplementary Table 3 Clinical characteristics of 881 patients with complete information

Feature	Group	Number	t	p-value
fustate	Dead	126	1.4006	0.3947
	Alive	755		
Age	<60year	511	6.2482	0.101
	>60year	370		
Gender	female	870	1.0256	0.492
	male	11		
Ajcc_pathologic_m	M0	864	1.0401	0.4875
	M1	17		
Ajcc_pathologic_n	N0	432	2.5123	0.08677
	N1	294		

Feature	Group	Number	t	p-value
	N2	102		
	N3	53		
Ajcc_pathologic_stage	Stage I	155	2.0961	0.127
	Stage II	514		
	Stage III	195		
	Stage IV	17		
Ajcc_pathologic_t	T1	231	2.0235	0.1362
	T2	522		
	T3	97		
	T4	31		

Supplementary Table 4 Characteristics of primary BRCA subjects in GSE109169 dataset

feature	group	number	t	p-value
tissue	Normal	25		
	Tumor	25		
Sex	female	25		
	male	0		
Age	<60	25		
	>60	0		
Stage	I	6	3.8348	0.01854
	IIA	8		
	IIB	3		
	IIIA	7		
	IIIC	1		

Supplementary Table 5 Characteristics of primary BRCA subjects in GSE20685 dataset

Feature	Group	Number	t	p-value
fustate	Dead	71	1.4006	0.3947
	Alive	207		
Age	<60year	232	6.2482	0.101
	>60year	46		
Gender	female	278	1.4279	0.3889
	male	0		
event_metastasis	metastasis	204	2.1385	0.2785
	non_metastasis	74		
subtype	I	33	5.4362	0.002858
	II	27		
	III	40		
	IV	68		
	V	33		
	VI	77		
ajcc_pathologic_m	M0	271	1.053	0.4836
	M1	7		
ajcc_pathologic_n				

Feature	Group	Number	t	p-value
ajcc_pathologic_stage	N0	118	3.9489	0.02896
	N1	71		
	N2	52		
	N3	37		
ajcc_pathologic_t	Stage I	155	2.0961	0.127
	Stage II	514		
	Stage III	195		
	Stage IV	17		
ajcc_pathologic_t	T1	85	1.9696	0.1435
	T2	162		
	T3	22		
	T4	8		

Supplementary Table 6 A list of 1499 lipid metabolism-related genes integrated from MSigDB and GO databases

Gene Name						
B3GALT1	ACSL3	ARF1	CLN3	DGKA	FABP3	
B3GALT2	ACSL4	ARF3	CNEP1R1	DGKB	FABP4	
B4GALT3	AGAP2	ATG14	CPNE1	DGKD	FABP5	
FA2H	AGK	ATM	CPNE3	DGKE	FABP6	
GAL3ST1	AGMO	AVIL	CPNE6	DGKG	FABP7	
GALC	AGPAT1	AWAT2	CPNE7	DGKH	FABP9	
GBA3	AGPAT2	BMX	CPS1	DGKI	FAM126A	
PNLIPRP2	AGPAT3	BPNT1	CPT1A	DGKK	FAM126B	
PSAP	AGPAT4	BPNT2	CRLS1	DGKQ	FAR1	
UGT8	AGPAT5	C3	CSF1R	DGKZ	FBXW7	
AADAC	AJUBA	CAPN2	CSNK2A1	DNAJC19	FGF2	
ABHD12	ALOX15	CAT	CSNK2A2	DPM1	FGF21	
ABHD12B	ALPI	CAV1	CSNK2B	DPM2	FIG4	
ABHD16A	ANG	CAV3	CTDNEP1	DPM3	FITM2	
ABHD16B	APOA1	CDIPT	CWH43	EFR3A	FPR2	

Gene Name

ABHD2	APOA2	CDS1	CYP2E1	EFR3B	G6PC
ABHD3	APOA4	CDS2	DAGLA	ENPP2	GALR2
ABHD4	APOA5	CEPT1	DAGLB	ENPP6	GDE1
ABHD5	APOB	CETP	DBI	ETNK1	GDPD1
ABHD6	APOBEC1	CHAT	DDHD1	ETNK2	GDPD3
ABHD8	APOBR	CHKA	DDHD2	ETNPPL	GK
ACHE	APOC1	CHKB	DGAT1	FAAH	GK2
ACP6	APOC2	CHPT1	DGAT2	FABP1	GK5
ACSL1	APOC3	CHRM5	DGAT2L6	FABP12	GNB3
APOH	APOE	CISH	DGAT2L7P	FABP2	GNPAT
GPAA1	INPP5F	LPCAT3	MTMR10	PCSK9	PIGB
GPAM	INPP5J	LPCAT4	MTMR11	PCTP	PIGC
GPAT2	INPP5K	LPGAT1	MTMR12	PCYT1A	PIGF
GPAT3	INPPL1	LPIN1	MTMR14	PCYT1B	PIGG
GPAT4	INSIG1	LPIN2	MTMR2	PCYT2	PIGH

Gene Name

GPCPD1	INSIG2	LPIN3	MTMR3	PDGFA	PIGK
GPD1	IP6K1	LPL	MTMR4	PDGFB	PIGL
GPD1L	IP6K2	LYPLA2	MTMR6	PDGFRB	PIGM
GPLD1	IP6K3	MBOAT1	MTMR7	PDXP	PIGN
GPX1	IPMK	MBOAT2	MTMR8	PEMT	PIGO
HADHA	ITPKA	MBOAT7	MTMR9	PGAP1	PIGP
HADHB	ITPKB	MECP2	NAPEPLD	PGAP2	PIGQ
HDHD5	ITPKC	MFSD2A	NKX2-3	PGAP3	PIGS
HTR2A	LCAT	MGLL	NR1H2	PGAP4	PIGT
HTR2B	LCLAT1	MIR29B1	NR1H3	PGP	PIGU
HTR2C	LDLR	MIR29B2	NR1H4	PGS1	PIGV
IMPA1	LIPC	MIR30C1	OCRL	PHB2	PIGW
IMPA2	LIPE	MIR30C2	OSBPL10	PHOSPHO1	PIGX
INPP1	LIPF	MIR548P	OSBPL5	PI4K2A	PIGY
INPP4A	LIPG	MOGAT1	OSBPL8	PI4K2B	PIGZ

Gene Name

INPP4B	LIPH	MOGAT2	P3R3URF	PI4KA	PIK3C2A
INPP5A	LIPI	MOGAT3	PAFAH1B1	PI4KAP1	PIK3C2B
INPP5B	LMF1	MPPE1	PANK2	PI4KAP2	PIK3C2G
INPP5D	LPCAT1	MTM1	PCK1	PI4KB	PIK3C3
INPP5E	LPCAT2	MTMR1	PCK2	PIGA	PIK3CA
PIK3CD	PLA2G12A	PLCD4	PRDX6	SH3YL1	STOML2
PIK3CG	PLA2G15	PLCE1	PTDSS1	SIK1	SYNJ1
PIK3R1	PLA2G1B	PLCG2	PTDSS2	SIRT1	SYNJ2
PIK3R2	PLA2G2A	PLCH2	PTEN	SLA2	TAMM41
PIK3R3	PLA2G2D	PLD1	PTPMT1	SLC22A4	TAZ
PIK3R4	PLA2G2E	PLD2	PTPN11	SLC27A1	TBL1XR1
PIK3R5	PLA2G2F	PLD6	PTPN13	SLC27A5	THEM5
PIK3R6	PLA2G3	PLEK	PYURF	SLC44A1	THRSP
PIKFYVE	PLA2G4A	PLEKHA1	RAB14	SLC44A2	TMEM150A
PIP4K2A	PLA2G4B	PLEKHA2	RAB38	SLC44A3	TMEM86B

Gene Name

PIP4K2B	PLA2G4C	PLEKHA3	RAB4A	SLC44A4	TPTE
PIP4K2C	PLA2G4D	PLEKHA4	RAB5A	SLC44A5	TPTE2
PIP4P1	PLA2G4E	PLEKHA8	RGN	SMG1	TTC7A
PIP4P2	PLA2G4F	PLIN5	RUFY1	SMPD4	TTC7B
PIP5K1A	PLA2G5	PLSCR1	SACM1L	SOCS1	VAC14
PIP5K1B	PLA2G6	PLSCR3	SBF1	SOCS2	ZP3
PIP5K1C	PLA2G7	PNPLA1	SCARB1	SOCS3	A3GALT2
PIP5KL1	PLAAT1	PNPLA2	SEL1L	SOCS4	A4GALT
PIPSL	PLAAT2	PNPLA3	SELENOI	SOCS5	ARSA
PISD	PLAAT3	PNPLA4	SERAC1	SOCS6	ASAH1
PITPNM1	PLAAT4	PNPLA5	SERINC1	SOCS7	B3GALNT1
PITPNM2	PLAAT5	PNPLA6	SERINC2	SORL1	B3GALT4
PITPNM3	PLB1	PNPLA7	SERINC3	SREBF1	B4GALNT1
PLA1A	PLBD1	PNPLA8	SERINC5	STARD10	B4GALT5
B4GALT6	NEU3	ABCA2	ACADVL	ACSL5	ADTRP

Gene Name

BAX	NEU4	ABCA4	ACAT1	ACSL6	AFP
CERK	PRKAA1	ABCB11	ACAT2	ACSM1	AGPS
CLN6	PRKCD	ABCB4	ACBD3	ACSM2A	AGRN
CPTP	SMPD1	ABCD1	ACBD5	ACSM2B	AGT
CREM	SMPD2	ABCD2	ACER1	ACSM3	AGTR1
CTSA	SMPD3	ABCD3	ACER2	ACSM4	AIG1
ENPP7	ST3GAL5	ABCD4	ACER3	ACSM5	AKR1B1
ESYT1	ST6GALNAC3	ABCG1	ACLY	ACSM6	AKR1B10
ESYT2	ST6GALNAC4	ABHD1	ACOT1	ACSS1	AKR1B15
ESYT3	ST6GALNAC5	ABHD15	ACOT11	ACSS2	AKR1C1
GBA	ST6GALNAC6	ABO	ACOT12	ADGRF5	AKR1C2
GBA2	ST8SIA1	AC098591.2	ACOT2	ADH1A	AKR1C3
GLA	ST8SIA2	ACAA1	ACOT4	ADH1B	AKR1C4
GLB1	ST8SIA3	ACAA2	ACOT6	ADH1C	AKR1D1
GLTP	ST8SIA4	ACACA	ACOT7	ADH4	AKT1

Gene Name

GM2A	ST8SIA5	ACACB	ACOT8	ADH5	AKT2
HEXA	ST8SIA6	ACAD10	ACOX1	ADH6	ALAS1
HEXB	STS	ACAD11	ACOX2	ADH7	ALDH1A1
ITGB8	SUMF1	ACAD8	ACOX3	ADIPOQ	ALDH1A2
KIT	SUMF2	ACAD9	ACOXL	ADIPOR1	ALDH1A3
LARGE1	UGCG	ACADL	ACSBG1	ADIPOR2	ALDH3A2
NAGA	AACS	ACADM	ACSBG2	ADM	ALDH3B1
NEU1	AASDH	ACADS	ACSF2	ADORA1	ALDH3B2
NEU2	ABCA1	ACADSB	ACSF3	ADRA2A	ALDH8A1
ALG1	ANXA1	AWAT1	CCL21	CFTR	CRK
ALG10	AOAH	B3GNT5	CCN1	CGA	CRKL
ALG10B	APOC4	B4GALNT2	CCR7	CH25H	CROT
ALG11	APOD	B4GALT4	CD19	CHD9	CRPPA
ALG12	APOF	BAAT	CD36	CIDEA	CRTC3
ALG13	APOL1	BBS4	CD74	CLCN2	CRYL1

Gene Name

ALG14	APOL2	BCL11B	CD81	CLN8	CSNK1G2
ALG2	APOL4	BCO1	CDC42	CLPS	CUBN
ALG3	APOL5	BCO2	CDK4	CLPSL1	CYB5R1
ALG6	APOM	BDH2	CEACAM1	CLPSL2	CYB5R2
ALG8	APP	BMP2	CEBPA	CLU	CYB5R3
ALG9	APPL2	BMP5	CEL	CNBP	CYGB
ALKBH7	ARV1	BMP6	CERKL	CNR1	CYP11A1
ALOX12	ASAH2	BRCA1	CERS1	COMT	CYP11B1
ALOX12B	ASAH2B	BSCL2	CERS2	COQ2	CYP11B2
ALOX15B	ASPG	BTN2A1	CERS3	CPT1B	CYP17A1
ALOX5	ASXL3	C1QTNF2	CERS4	CPT1C	CYP19A1
ALOX5AP	ATP1A1	CACNA1H	CERS5	CPT2	CYP1A1
ALOXE3	ATP5F1A	CARM1	CERS6	CRABP1	CYP1A2
AMACR	ATP5F1B	CBR1	CERT1	CRABP2	CYP1B1
AMBRA1	ATP6V1B1	CBR4	CES1	CRAT	CYP21A2

Gene Name

ANGPTL3	ATP8B1	CCDC3	CES2	CREB1	CYP24A1
ANGPTL4	AUH	CCDC71L	CES3	CREBBP	CYP26A1
ANGPTL8	AVP	CCKBR	CES4A	CREBL2	CYP26B1
ANKRD1	AVPR1A	CCL19	CES5A	CRH	CYP26C1
CYP27A1	CYP46A1	DHRS13	EDF1	ETFB	FGFR3
CYP27B1	CYP4A11	DHRS2	EDN1	ETFBKMT	FGFR4
CYP27C1	CYP4A22	DHRS3	EDN2	ETFDH	FGR
CYP2A13	CYP4F11	DHRS4	EEF1A2	F2	FHL2
CYP2A6	CYP4F12	DHRS9	EGFR	FAAH2	FITM1
CYP2A7	CYP4F2	DISP3	EGR1	FADS1	FLT1
CYP2B6	CYP4F22	DKK3	EHHADH	FADS2	FLT3
CYP2C18	CYP4F3	DKKL1	EIF6	FADS2B	FMC1
CYP2C19	CYP4F8	DLD	ELOVL1	FADS3	FMO5
CYP2C8	CYP4V2	DNAJC15	ELOVL2	FADS6	FSHB
CYP2C9	CYP51A1	DOLK	ELOVL3	FAM135A	FUCA1

Gene Name

CYP2D6	CYP7A1	DOLPP1	ELOVL4	FAM135B	FUT2
CYP2D7	CYP7B1	DPAGT1	ELOVL5	FAM3A	FUT3
CYP2F1	CYP8B1	DPEP1	ELOVL6	FAR2	FUT5
CYP2G1P	DAB2IP	DPEP2	ELOVL7	FASN	FUT6
CYP2J2	DDX20	DRD3	EPHA8	FAXDC2	FUT7
CYP2R1	DECR1	EBP	EPHX1	FDFT1	G0S2
CYP2S1	DECR2	EBPL	EPHX2	FDPS	G6PD
CYP2U1	DEGS1	ECH1	EPHX3	FDX1	GAL
CYP2W1	DEGS2	ECHDC1	ERFE	FDX2	GAL3ST2
CYP39A1	DHCR24	ECHDC2	ERG28	FDXR	GAL3ST3
CYP3A4	DHCR7	ECHDC3	ERLIN1	FGF1	GAL3ST4
CYP3A43	DHDDS	ECHS1	ERLIN2	FGF19	GATA6
CYP3A5	DHH	ECI1	ESR1	FGF23	GBGT1
CYP3A7	DHRS11	ECI2	ETFA	FGFR1	GC
GCDH	GRHL1	HNF4A	IDI1	LGALS13	MACROH2A1

Gene Name

GDPD2	GSTA1	HPGD	IDI2	LGMN	MALRD1
GDPD4	GSTM1	HPGDS	IFNG	LHB	MAPK14
GDPD5	GSTM2	HSD11B1	IGFBP7	LIAS	MAPK3
GFI1	GSTM4	HSD11B2	IL1B	LIMA1	MBOAT4
GGPS1	GSTP1	HSD17B1	IL1RN	LIPA	MBTPS1
GGT1	GSTZ1	HSD17B10	IL4	LIPJ	MBTPS2
GGT5	H6PD	HSD17B11	ILVBL	LIPK	MCAT
GHSR	HACD1	HSD17B12	INS	LIPM	MCEE
GIP	HACD2	HSD17B13	IRS1	LIPN	ME1
GLIPR1	HACD3	HSD17B14	IRS2	LIPT1	MECR
GLT6D1	HACD4	HSD17B2	ISYNA1	LONP2	MED1
GLYATL2	HACL1	HSD17B3	IVD	LPA	MGST2
GOLM1	HADH	HSD17B4	JAZF1	LRAT	MGST3
GPC1	HAO1	HSD17B6	KBTD2	LRCOL1	MID1IP1
GPC2	HAO2	HSD17B7	KDSR	LRP1	MIF

Gene Name

GPC3	HCAR2	HSD17B8	KLF4	LRP10	MIR138-1
GPC4	HDAC3	HSD3B1	KPNB1	LRP2	MIR138-2
GPC5	HDLBP	HSD3B2	LACTB	LRP5	MIR182
GPC6	HELZ2	HSD3B7	LAMTOR1	LRP8	MIR185
GPER1	HINT2	HSPG2	LBR	LSR	MIR204
GPIHBP1	HMGCL	HTD2	LDAH	LSS	MIR27A
GPR31	HMGCLL1	HTRA2	LDLRAP1	LTA4H	MIR27B
GPS2	HMGCR	IAH1	LEP	LTC4S	MIR33A
GPX4	HMGCS1	ID2	LEPR	LYN	MIR766
GPX5	HMGCS2	IDH1	LGALS12	LYPLA1	MIR96
MLXIPL	NFYB	OMA1	PCCA	PITPNA	PLPP4
MLYCD	NFYC	OPA3	PCCB	PITPNB	PLPP5
MMAA	NKX1-1	OPN1LW	PDE3A	PLA2G12B	PLPP6
MMUT	NKX2-1	OPN1MW	PDE3B	PLA2G2C	PLPPR1
MORC2	NOD2	OPN1MW2	PDGFRA	PLAA	PLPPR2

Gene Name

MPDU1	NPAS2	OPN1SW	PDK1	PLAGL2	PLPPR3
MSMO1	NPC1	ORMDL1	PDK2	PLBD2	PLPPR4
MT3	NPC1L1	ORMDL2	PDK3	PLCB2	PLPPR5
MTOR	NPC2	ORMDL3	PDK4	PLCB3	PLTP
MTTP	NR0B1	OSBP	PDP1	PLCB4	PM20D1
MVD	NR0B2	OSBPL1A	PDP2	PLCD1	PMVK
MVK	NR1D1	OSBPL2	PDPR	PLCD3	PNLIP
MYO5A	NR1D2	OSBPL3	PDSS1	PLCG1	PNLIPRP1
NAA40	NR1I2	OSBPL6	PDSS2	PLCH1	PNLIPRP3
NAAA	NR1I3	OSBPL7	PDXDC1	PLCL1	PON2
NCEH1	NR4A3	OSBPL9	PDXDC2P-NPIP14P	PLCL2	PON3
NCOA1	NR5A1	OXSM	PECR	PLCXD1	POR
NCOA2	NR5A2	P2RX1	PER2	PLCXD2	PORCN
NCOA6	NRBF2	P2RX7	PEX11A	PLCXD3	PPARA
NCOR1	NSDHL	P2RY12	PEX13	PLCZ1	PPARD

Gene Name

NCOR2	NSMAF	PAFAH1B2	PEX2	PLIN1	PPARG
NDUFAB1	NUDT19	PAFAH1B3	PEX7	PLIN2	PPARGC1A
NDUFS6	NUDT7	PAFAH2	PHYH	PLP1	PPM1L
NFE2L1	NUS1	PAM	PIAS4	PLPP1	PPP2CA
NFKB1	OC90	PBX1	PIBF1	PLPP2	PPP2R1A
NFYA	OLAH	PC	PIK3IP1	PLPP3	PPP2R5A
PPP4R3B	PTGR2	REST	SDC4	SLC25A17	SPTSSB
PPT1	PTGS1	RETSAT	SDR16C5	SLC27A2	SQLE
PRKAA2	PTGS2	RFT1	SDR42E1	SLC27A3	SRC
PRKAB1	PTK2	RGL1	SDR42E2	SLC27A4	SRD5A1
PRKAB2	PTK2B	RHO	SEC14L2	SLC27A6	SRD5A2
PRKAG1	PTPRN2	RLBP1	SERINC4	SLC35C1	SRD5A3
PRKAG2	QKI	RORA	SERPINA3	SLC45A3	SREBF2
PRKAG3	RAB7A	RORC	SERPINA6	SMARCD3	ST3GAL2
PRKAR2B	RACK1	RPE65	SESN2	SMPDL3B	ST3GAL4

Gene Name

PRKCE	RAN	RUBCN	SF1	SNAI1	ST3GAL6
PRKD1	RARRES2	RUBCNL	SFTPB	SNAI2	STAR
PRKD2	RB1	RXRA	SGMS1	SNX17	STARD3
PRKD3	RBL1	SAMD8	SGMS2	SOAT1	STARD3NL
PRLH	RBL2	SC5D	SGPL1	SOAT2	STARD4
PRLR	RBP1	SCAP	SGPP1	SOD1	STAT5B
PROCA1	RBP2	SCARF1	SGPP2	SORBS1	TNFAIP8L3
PROX1	RBP3	SCCPDH	SHH	SOX9	TNFRSF1A
PRPF19	RBP4	SCD	SIN3A	SP1	TNFRSF21
PRXL2B	RDH10	SCD5	SIN3B	SPHK1	TPP1
PSAPL1	RDH11	SCP2	SIRT2	SPHK2	TPRA1
PTGDS	RDH12	SCP2D1	SIRT3	SPNS2	TREX1
PTGES	RDH13	SCPEP1	SIRT4	SPP1	UGT2B17
PTGES2	RDH14	SCT	SLC16A1	SPTLC1	UGT2B28
PTGES3	RDH16	SDC1	SLC16A11	SPTLC2	UGT2B7

Gene Name

PTGIS	RDH5	SDC2	SLC22A13	SPTLC3	VAPA
PTGR1	RDH8	SDC3	SLC22A24	SPTSSA	VAPB
TBL1X	TRIB3	VAV3	ATG5	WDR45B	VAV2
TBXAS1	TRPV1	VDR	ATG7	WIPI1	ABHD17C
TECR	TSPO	VLDLR	CLIP3	WIPI2	APOL3
TECRL	TSPOAP1	WASHC1	CTSD	ZDHHC1	APOL6
TEK	TTC39B	WDR81	GLUL	ZDHHC11	APOLD1
TEX2	TTPA	WDR91	GOLGA7	ZDHHC11B	ATG10
TGFB1	TTR	WDTC1	GOLGA7B	ZDHHC12	ATG12
TGS1	TWIST1	WNT10B	HHAT	ZDHHC13	RAB3GAP1
TH	TXNRD1	WNT4	HHATL	ZDHHC14	RAB3GAP2
THEM4	TYRP1	XBP1	IRGM	ZDHHC15	RABL3
THNSL2	TYSND1	YWHAH	ITGAV	ZDHHC16	SELENOK
THRA	UCP3	ZADH2	ITGB3	ZDHHC17	SVIP
TIAM2	UGT1A1	ZBTB20	LYPLAL1	ZDHHC18	WDR45

Gene Name

TIPARP	UGT1A3	ZFP69	MAP6D1	ZDHHC19	STRA6
TLCD3B	UGT1A7	ZMPSTE24	NMT1	ZDHHC2	STUB1
TM6SF2	UGT1A8	ZNF202	NMT2	ZDHHC20	SULT1A1
TM7SF2	UGT1A9	ZPBP2	NOTUM	ZDHHC21	SULT1A2
TMEM189	UGT2B10	ABHD13	OLR1	ZDHHC22	SULT1A3
TMEM38B	UGT2B11	ABHD17A	PPM1A	ZDHHC23	SULT1A4
TNF	UGT2B15	ABHD17B	PPM1B	ZDHHC24	SULT1B1
SULT1E1	SULT2A1	SULT2B1	ZDHHC3	ZDHHC4	ZDHHC5
ZDHHC6	ZDHHC7	ZDHHC8	SULT4A1	ZDHHC9	

Supplementary Table 7 List of DEGs between BRCA and normal samples in the TCGA database

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
FIGF	-3.332190733	0.746338404	-51.3602268	4.80E-302	2.80E-297	681.4988892
CA4	-2.715508785	0.453125056	-47.81603713	1.95E-277	5.71E-273	624.9735063
CD300LG	-3.386163115	0.762225675	-46.31342626	8.10E-267	1.58E-262	600.5829011
ARHGAP20	-1.483449292	0.548577288	-43.22082639	1.19E-244	1.74E-240	549.6558106
SCARA5	-3.641982517	0.906895831	-43.05540154	1.87E-243	2.19E-239	546.906134
ABCA10	-1.436653653	0.40625017	-41.5671108	1.21E-232	7.88E-229	522.0623307
GLYAT	-2.255345799	0.34843704	-40.48167115	1.04E-224	5.53E-221	503.8320253
LYVE1	-3.290096739	1.061543811	-39.53691513	8.97E-218	4.03E-214	487.8965629
RP5-965F6.2	-1.237818361	0.299640069	-39.18734841	3.35E-215	1.30E-211	481.9857678
HSD17B13	-1.644086362	0.278690989	-38.5976469	7.43E-211	2.55E-207	471.9982826
MIR143HG	-1.238406469	0.284686556	-38.49786044	4.05E-210	1.18E-206	470.3063388
RP11-175K6.1	-1.00666889	0.311819239	-38.20618742	5.76E-208	1.60E-204	465.3578463
HEPACAM	-1.301926704	0.196860482	-37.9358002	5.74E-206	1.52E-202	460.7666764
ASPA	-1.303598778	0.378702413	-37.90331144	9.97E-206	2.53E-202	460.2147809
FXD1	-1.557337419	0.472617629	-37.70290315	3.02E-204	7.36E-201	456.8093085
MYOM1	-1.82993012	0.635753782	-37.69400217	3.52E-204	8.22E-201	456.6580147
SLC2A4	-2.166316764	0.607600953	-37.54153792	4.72E-203	1.06E-199	454.0659683
ABCA9	-2.095912769	0.724972316	-37.40224191	5.07E-202	1.10E-198	451.6969175
TMEM132C	-2.578780423	0.639318253	-37.229547	9.63E-201	2.01E-197	448.7587227
TNXB	-3.00138509	1.111119082	-36.99105817	5.63E-199	1.13E-195	444.6991874
ACVR1C	-2.13662758	0.455272282	-36.69329236	9.06E-197	1.71E-193	439.6277032
AQP7P1	-1.450300691	0.239933048	-36.68168125	1.10E-196	2.01E-193	439.429883
BTNL9	-3.00344879	1.238100421	-36.56153953	8.59E-196	1.52E-192	437.3827469
PAMR1	-2.963994393	1.436374074	-36.35887858	2.73E-194	4.56E-191	433.9284982
ITIH5	-3.059894147	1.348392126	-36.25909664	1.50E-193	2.44E-190	432.2273138
RP11-736K20.4	-2.160483938	0.914305469	-36.22542805	2.67E-193	4.12E-190	431.6532326
RDH5	-1.898570563	0.520655963	-36.22529818	2.68E-193	4.12E-190	431.6510182

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
ADAMTS5	-2.520789855	1.411049525	-36.16393601	7.64E-193	1.12E-189	430.6046537
MEOX2-AS1	-1.743725274	0.439015945	-36.11487747	1.77E-192	2.52E-189	429.76802
GPAM	-3.139190542	2.041981547	-35.22191532	7.55E-186	9.79E-183	414.5298888
PDE2A	-2.239689998	1.207345707	-35.18401098	1.44E-185	1.83E-182	413.8827276
TRHDE-AS1	-1.437115685	0.213290985	-35.13245265	3.49E-185	4.33E-182	413.0024105
HIF3A	-1.192385101	0.256646831	-34.95890112	6.79E-184	8.09E-181	410.038894
RP11-798K3.2	-1.111489414	0.148929704	-34.94714064	8.30E-184	9.70E-181	409.8380619
AQP7	-3.191100844	0.845439527	-34.84310198	4.93E-183	5.64E-180	408.0613404
ABCA8	-2.45927146	0.83041542	-34.7137733	4.50E-182	5.06E-179	405.8525776
IGSF10	-1.673821513	0.565445779	-34.69394532	6.32E-182	6.96E-179	405.5139288
KLB	-2.001384159	0.514580836	-34.66969824	9.57E-182	1.04E-178	405.0998005
AQPEP	-1.362485358	0.240414616	-34.66807223	9.84E-182	1.04E-178	405.0720288
ALDH1L1	-1.729485227	0.35723294	-34.61040532	2.64E-181	2.75E-178	404.0870877
ATOH8	-1.730880529	0.5805555	-34.36089791	1.89E-179	1.90E-176	399.8253148
RP11-175K6.2	-1.524153619	0.56257742	-34.17877163	4.26E-178	4.01E-175	396.7143197
SDPR	-3.755377718	1.86783692	-33.99694476	9.58E-177	8.87E-174	393.6084175
NPR1	-2.712291417	1.643156047	-33.98701862	1.13E-176	1.02E-173	393.4388637
DMD	-2.187520555	0.954943375	-33.97340528	1.43E-176	1.25E-173	393.2063274
LEP	-4.504432813	1.0891401	-33.967465	1.59E-176	1.36E-173	393.1048587
GPR146	-1.209835175	0.539135448	-33.93072862	2.97E-176	2.48E-173	392.4773489
KCNIP2	-3.399896373	1.175549799	-33.87043204	8.35E-176	6.86E-173	391.4474065
RP11-311H10.4	-1.248621384	0.194887571	-33.50525863	4.32E-173	3.36E-170	385.2102042
TNMD	-2.308961786	0.565053776	-33.46263337	8.96E-173	6.88E-170	384.4822284
MAP1LC3C	-1.856460993	0.593832469	-33.45336821	1.05E-172	7.96E-170	384.3239956

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
ALDH1A2	-1.279903974	0.451273953	-33.44706498	1.17E-172	8.75E-170	384.216348
ATP1A2	-2.676230229	0.742163733	-33.01109007	2.03E-169	1.46E-166	376.7719179
FAM13A	-1.766666952	1.367302172	-32.85358036	3.00E-168	2.11E-165	374.0831241
KLHL29	-1.321817819	0.571817442	-32.80387476	7.02E-168	4.82E-165	373.2347168
COL6A6	-1.444163549	0.438773246	-32.65947554	8.29E-167	5.56E-164	370.7703151
MRAP	-1.998481136	0.443384075	-32.65594897	8.80E-167	5.84E-164	370.7101345
SMYD1	-1.951266277	0.373878538	-32.61807612	1.68E-166	1.08E-163	370.0638552
C14orf180	-2.141512949	0.429745336	-32.58843668	2.79E-166	1.77E-163	369.5580985
ACSM5	-1.670223964	0.623776284	-32.48827242	1.55E-165	9.51E-163	367.8490921
MME	-3.267135577	1.872880247	-32.45405442	2.78E-165	1.67E-162	367.2653223
RP11-561i11.3	-1.133060963	0.195349544	-32.42663267	4.44E-165	2.64E-162	366.797521
MAB21L1	-1.413689717	0.572185288	-32.32533285	2.51E-164	1.45E-161	365.0695764
MAMDC2	-2.546750408	1.30722591	-32.32192886	2.66E-164	1.52E-161	365.0115171
LRRN4CL	-2.175092921	0.965520527	-32.29348952	4.32E-164	2.45E-161	364.5264619
FREM1	-1.37045422	0.499723911	-32.14952566	5.05E-163	2.84E-160	362.0714178
RP11-736K20.5	-1.832833124	0.907587176	-32.02839468	4.00E-162	2.22E-159	360.0062563
HSPB7	-2.984525987	1.063602763	-31.98569005	8.30E-162	4.53E-159	359.2783026
NIPSNAP3B	-1.596279295	0.97381071	-31.89536738	3.88E-161	2.08E-158	357.7388501
GIPC2	-1.35323504	0.601106641	-31.88417273	4.70E-161	2.49E-158	357.5480698
ADRB2	-1.765045358	0.889721742	-31.86848292	6.14E-161	3.23E-158	357.2806902
KLF15	-2.053843296	0.855223714	-31.79581688	2.12E-160	1.11E-157	356.042463
ANKRD53	-1.001391687	0.444828896	-31.78882336	2.39E-160	1.24E-157	355.9233042
CCL14	-1.911778545	0.68793105	-31.68046735	1.52E-159	7.74E-157	354.0773264
ABCA6	-1.31777876	0.591839615	-31.68028464	1.53E-159	7.74E-157	354.0742142

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
TMEM220	-1.493291473	1.014386534	-31.52707281	2.08E-158	1.03E-155	351.4648741
MIR143	-2.40753489	0.628769271	-31.50596287	2.99E-158	1.47E-155	351.1054298
EBF1	-2.248802667	1.56822631	-31.47793003	4.82E-158	2.34E-155	350.6281373
CRHBP	-1.100312176	0.308578912	-31.47394671	5.16E-158	2.49E-155	350.5603193
MYOC	-2.342456756	0.32082791	-31.45846442	6.71E-158	3.21E-155	350.2967324
SLC19A3	-3.085841549	0.917455888	-31.45511621	7.11E-158	3.37E-155	350.2397303
GPIHBP1	-2.790714391	1.316114473	-31.41339003	1.45E-157	6.82E-155	349.5293988
SCN4A	-1.265840481	0.390196751	-31.36659014	3.22E-157	1.50E-154	348.7327877
KLHL31	-1.533453519	0.541310065	-31.34735195	4.47E-157	2.07E-154	348.405351
CHL1	-2.000330261	0.785294978	-31.29707085	1.05E-156	4.84E-154	347.5496412
ANGPTL7	-1.747457532	0.340516009	-31.15406153	1.21E-155	5.41E-153	345.1164951
RP1-28O10.1	-2.458240238	0.756156263	-31.13648062	1.63E-155	7.25E-153	344.8174446
HPSE2	-1.38648169	0.342850071	-31.00822072	1.45E-154	6.26E-152	342.636226
LEPR	-1.965531447	1.072610395	-30.96785168	2.88E-154	1.24E-151	341.9498778
ADCYAP1R1	-1.233147363	0.464408356	-30.95346794	3.68E-154	1.57E-151	341.7053486
FHL1	-3.890763356	2.783071066	-30.93090273	5.40E-154	2.28E-151	341.3217537
ADH1C	-2.476531426	0.831837449	-30.91417011	7.18E-154	3.02E-151	341.0373272
MAGI2-AS3	-1.375798509	0.962104813	-30.90329257	8.64E-154	3.60E-151	340.8524354
CTD-2023N9.1	-1.024888153	0.209918016	-30.84675039	2.26E-153	9.30E-151	339.8914601
PCK1	-2.334962425	0.51007756	-30.79977964	5.03E-153	2.06E-150	339.0932936
TNS1	-2.699671115	3.472242729	-30.79670191	5.30E-153	2.15E-150	339.0409986
SLC7A10	-1.970255857	0.455384859	-30.56271751	2.84E-151	1.13E-148	335.0668851
RP11-407P15.2	-1.249410928	0.197574489	-30.46494301	1.50E-150	5.88E-148	333.4072122
CAV1	-3.186926174	4.286534197	-30.42679241	2.87E-150	1.12E-147	332.7597882

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
SLC16A7	-1.577299039	0.670772042	-30.41547878	3.48E-150	1.34E-147	332.5678113
RP11-172E9.2	-1.045528225	0.182640521	-30.39949627	4.56E-150	1.75E-147	332.2966237
SYNE3	-1.669477355	0.907793337	-30.38549153	5.79E-150	2.21E-147	332.0590082
ABCD2	-1.441741053	0.404251088	-30.38111545	6.24E-150	2.37E-147	331.9847628
AC093110.3	-1.233660799	0.595942793	-30.26564578	4.44E-149	1.65E-146	330.0261358
ANGPTL1	-2.099473014	0.962512697	-30.22512007	8.84E-149	3.27E-146	329.3389393
CAV2	-2.502160116	2.378003049	-30.20454364	1.25E-148	4.57E-146	328.9900664
PPP1R12B	-1.690574423	1.797552731	-30.17373264	2.12E-148	7.58E-146	328.4677209
GDF10	-2.013524833	0.629981985	-30.15127816	3.10E-148	1.10E-145	328.0870865
CLEC3B	-3.352585948	2.724398182	-30.05017553	1.72E-147	6.07E-145	326.3736963
CORO2B	-1.515609822	0.980652174	-29.97630657	6.04E-147	2.09E-144	325.1222982
SIK2	-1.970898757	2.566139108	-29.88603498	2.79E-146	9.49E-144	323.5935699
ACACB	-2.641124997	1.662965712	-29.74889309	2.86E-145	9.44E-143	321.2722801
SGK2	-1.303880582	0.482465636	-29.7094957	5.58E-145	1.83E-142	320.6057013
RP11-481H12.1	-1.861702551	0.991653796	-29.67382463	1.02E-144	3.33E-142	320.0022747
CLDN19	-1.382818272	0.341107795	-29.57370622	5.57E-144	1.81E-141	318.3091743
FAM196B	-1.536986142	0.35894015	-29.53573495	1.06E-143	3.42E-141	317.6672559
SCN4B	-2.148512131	1.356036805	-29.46778196	3.35E-143	1.06E-140	316.5187831
PALMD	-2.419917842	2.05772783	-29.4660017	3.45E-143	1.09E-140	316.4887001
EBF3	-1.70535409	0.987101113	-29.35310856	2.33E-142	7.28E-140	314.5815717
TMEM246	-1.033935814	0.586139823	-29.21312169	2.49E-141	7.65E-139	312.2182764
SVEP1	-2.475724578	1.488809555	-29.20644722	2.79E-141	8.52E-139	312.1056394
LINC01485	-1.135577685	0.270679595	-29.04370084	4.36E-140	1.32E-137	309.3604199
HCAR2	-1.998129186	0.919042042	-29.02488875	6.00E-140	1.79E-137	309.0432534

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
SORBS1	-2.956322501	2.568598244	-28.90589041	4.47E-139	1.31E-136	307.037749
CHRD1	-4.101531695	2.067940641	-28.89127041	5.72E-139	1.67E-136	306.7914483
BMX	-1.30199827	0.596316449	-28.82686748	1.70E-138	4.93E-136	305.7067098
TSHZ2	-1.958699487	1.199341095	-28.76559956	4.77E-138	1.38E-135	304.6751518
ITGA7	-2.738966787	1.702653946	-28.71055873	1.21E-137	3.47E-135	303.7487565
DEFB132	-1.799783034	0.431519913	-28.70622192	1.30E-137	3.72E-135	303.6757762
TUSC5	-4.152786715	1.380385132	-28.68609941	1.82E-137	5.19E-135	303.337178
CXCL2	-2.898233287	1.247478217	-28.63666788	4.19E-137	1.17E-134	302.505576
HSPB6	-4.012104293	2.466260206	-28.54345284	2.02E-136	5.58E-134	300.9380732
NMUR1	-1.051139498	0.319673041	-28.49645681	4.45E-136	1.23E-133	300.1481319
HLF	-2.294726049	1.132399183	-28.4568392	8.68E-136	2.36E-133	299.4823933
SPRY2	-2.400665041	2.289970754	-28.36746574	3.90E-135	1.06E-132	297.9811683
CAPN11	-1.202019841	0.511746591	-28.33209742	7.08E-135	1.90E-132	297.3873179
MYZAP	-2.001684381	1.10759127	-28.32543109	7.92E-135	2.12E-132	297.2754023
ADAM33	-1.861411292	0.891641726	-28.30558515	1.11E-134	2.95E-132	296.9422542
KL	-1.146494608	0.528682224	-28.27260598	1.93E-134	5.11E-132	296.3887383
HOXA4	-1.223825009	0.616228615	-28.17967978	9.18E-134	2.43E-131	294.8297345
AC097713.3	-1.371564637	0.253595795	-28.17926246	9.25E-134	2.43E-131	294.8227354
CDO1	-2.817091996	1.484341137	-28.16635634	1.15E-133	2.99E-131	294.6062895
SYN2	-1.494665203	0.589840293	-28.07779903	5.08E-133	1.30E-130	293.1216245
C19orf80	-1.232198286	0.276260874	-28.05068864	8.02E-133	2.04E-130	292.6672984
AVPR2	-1.39112173	0.598342601	-28.04910944	8.23E-133	2.09E-130	292.6408364
GPD1	-4.684917161	1.950543629	-28.03999426	9.59E-133	2.42E-130	292.4881016
AOC3	-3.331722677	3.000928043	-27.98200831	2.54E-132	6.33E-130	291.516711

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
LGI4	-1.286977903	0.754559014	-27.98145562	2.56E-132	6.37E-130	291.5074542
VIT	-2.128693068	0.913542338	-27.95926595	3.72E-132	9.16E-130	291.1358351
PPARG	-2.478354616	1.712394816	-27.95261218	4.16E-132	1.02E-129	291.0244132
ITPRIPL1	-1.26261274	0.629641532	-27.94776826	4.51E-132	1.10E-129	290.9433016
FMO2	-3.272971898	1.8210119	-27.91844948	7.38E-132	1.79E-129	290.4524177
LPL	-4.233615571	2.95546087	-27.89460464	1.10E-131	2.65E-129	290.0532597
GRIA4	-1.021125378	0.230410824	-27.82307673	3.65E-131	8.74E-129	288.8563059
PAFAH1B3	2.336953522	5.154165202	27.79570233	5.78E-131	1.38E-128	288.3983847
GNAL	-1.225899634	0.803900183	-27.75056257	1.23E-130	2.92E-128	287.6434833
OXTR	-3.533368679	1.705173734	-27.74588232	1.33E-130	3.15E-128	287.5652267
IGFBP6	-2.987341975	3.04659386	-27.65489548	6.11E-130	1.44E-127	286.0444142
SPX	-2.034928934	0.45317132	-27.62441002	1.02E-129	2.39E-127	285.5350923
RP1-193H18.3	-1.724413966	0.346640385	-27.59989886	1.53E-129	3.58E-127	285.1256687
GSN	-2.361167165	5.377766303	-27.52693512	5.20E-129	1.21E-126	283.9073673
LDB2	-1.768083547	1.891856865	-27.52054306	5.79E-129	1.34E-126	283.8006693
F10	-1.548773405	0.940971409	-27.44604221	2.01E-128	4.60E-126	282.5574718
LIPE	-3.53710515	2.093444696	-27.44502829	2.05E-128	4.67E-126	282.5405575
PCOLCE2	-3.207750875	1.210527526	-27.42686335	2.77E-128	6.30E-126	282.2375509
RBMS3	-1.646131572	1.310209187	-27.42470363	2.87E-128	6.50E-126	282.2015278
AC073850.6	-1.681298644	0.438120272	-27.39885209	4.43E-128	9.90E-126	281.7703842
CFL2	-1.403319478	1.798936798	-27.39302308	4.88E-128	1.09E-125	281.6731821
DENND2A	-1.405960296	0.981593386	-27.36132191	8.28E-128	1.84E-125	281.1446252
PAK3	-1.042491242	0.389510458	-27.352396	9.62E-128	2.13E-125	280.9958268
TMEM100	-2.065476924	0.805422366	-27.32475085	1.53E-127	3.35E-125	280.5350383

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CIDEC	-4.625466006	1.750185298	-27.28266103	3.08E-127	6.74E-125	279.8336832
RP11-238F2.1	-1.043532583	0.171695917	-27.21735726	9.16E-127	1.98E-124	278.7459813
CEP112	-1.002546824	0.901131621	-27.21305598	9.85E-127	2.12E-124	278.6743593
MIR99AHG	-1.077950703	0.655681355	-27.17969732	1.72E-126	3.69E-124	278.1189804
LIFR	-2.328321111	1.962692424	-27.17666564	1.81E-126	3.86E-124	278.0685143
LGALS12	-2.910989545	0.984599286	-27.15699913	2.51E-126	5.35E-124	277.7411718
FAM180B	-1.1913674	0.294336021	-27.13017827	3.92E-126	8.30E-124	277.2948339
ZBTB16	-1.832954947	0.630505866	-27.1014144	6.34E-126	1.34E-123	276.8162724
CIDEA	-3.322877384	1.061010105	-26.92948486	1.11E-124	2.29E-122	273.9582073
CES1	-3.364868736	1.894895557	-26.85900343	3.59E-124	7.30E-122	272.7877836
MMP11	4.44623266	4.861609755	26.83026608	5.79E-124	1.17E-121	272.3107749
PDE1C	-1.210173243	0.423563654	-26.82123027	6.73E-124	1.35E-121	272.1608152
RP4-755D9.1	-1.596800423	0.480303448	-26.81320241	7.69E-124	1.54E-121	272.0275937
HSPB2	-1.519514274	0.848842807	-26.80444106	8.90E-124	1.77E-121	271.8822108
PLXNA4	-1.667303011	0.751700983	-26.75560768	2.00E-123	3.98E-121	271.0720937
AKR1C1	-2.376668177	0.872301795	-26.65048402	1.15E-122	2.26E-120	269.3293588
RBP4	-4.382476609	2.088692025	-26.54465495	6.65E-122	1.29E-119	267.5766177
LINC00968	-1.012180436	0.234074066	-26.53983752	7.21E-122	1.39E-119	267.4968722
MYH11	-3.289455976	2.130238108	-26.43484791	4.11E-121	7.81E-119	265.7598171
LMOD1	-2.685653468	2.749101144	-26.37611576	1.09E-120	2.05E-118	264.7888451
DNASE1L3	-1.281459359	0.524229881	-26.3748922	1.11E-120	2.09E-118	264.7686227
ADH1B	-4.756246872	2.102687288	-26.37065598	1.19E-120	2.23E-118	264.6986105
C8orf88	-1.280530912	0.816554722	-26.3319646	2.26E-120	4.21E-118	264.0592886
PLIN4	-4.925408059	2.549194712	-26.2711062	6.18E-120	1.15E-117	263.0541712

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
PLIN1	-4.918877463	2.385340999	-26.26229741	7.15E-120	1.32E-117	262.9087376
SPTBN1	-1.823542701	4.151629025	-26.24753088	9.13E-120	1.68E-117	262.6649692
GYG2	-2.97753387	2.325287078	-26.21470846	1.57E-119	2.86E-117	262.123258
GPRASP1	-1.463418048	1.079264612	-26.21346889	1.60E-119	2.91E-117	262.1028032
RP11-394O4.5	-2.714195211	1.795714762	-26.1994909	2.02E-119	3.65E-117	261.8721623
CDC14B	-1.220227821	1.166545547	-26.18625218	2.52E-119	4.53E-117	261.6537489
TMEM255A	-1.294624197	0.811793797	-26.13598693	5.77E-119	1.03E-116	260.8247305
PFKFB1	-1.831738847	0.799268899	-26.11840512	7.72E-119	1.37E-116	260.5348542
TIMP4	-3.460114952	1.559552848	-26.07486183	1.58E-118	2.80E-116	259.8171641
SAMD5	-1.951778675	0.84501488	-26.06026896	2.02E-118	3.54E-116	259.5767118
GALNT15	-2.387562763	1.506504377	-26.0480676	2.47E-118	4.31E-116	259.3756926
SHE	-1.332614531	1.047866585	-25.97119995	8.77E-118	1.52E-115	258.1098616
RNF150	-1.887615658	1.043374331	-25.93511293	1.59E-117	2.73E-115	257.5159371
CKMT2	-1.279667469	0.689774281	-25.90550364	2.59E-117	4.44E-115	257.0287896
MLXIPL	-1.786329046	0.699122381	-25.90359477	2.67E-117	4.56E-115	256.9973891
C2orf40	-3.093547521	1.262437143	-25.89360029	3.15E-117	5.37E-115	256.8329918
PGM5	-1.771000596	1.002952694	-25.8516551	6.29E-117	1.07E-114	256.1432308
MEOX2	-2.265449866	1.39711421	-25.84664952	6.83E-117	1.15E-114	256.0609376
MOCS1	-1.615670476	2.008512852	-25.73033683	4.64E-116	7.76E-114	254.14995
FAM162B	-1.144243142	0.758540362	-25.71413645	6.06E-116	1.01E-113	253.8839699
ACADL	-1.319179297	0.341095992	-25.69890943	7.78E-116	1.29E-113	253.6340128
SLC22A3	-1.496734811	0.65436174	-25.66134941	1.44E-115	2.38E-113	253.0176273
CKS2	2.419277364	5.385978297	25.62466208	2.64E-115	4.34E-113	252.4158057
PDZD2	-1.829585951	1.350170591	-25.54289793	1.01E-114	1.65E-112	251.07541

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
RERGL	-2.13747807	0.827861658	-25.51943335	1.49E-114	2.42E-112	250.6909681
PRRT4	-1.223745946	0.358820758	-25.50915175	1.76E-114	2.85E-112	250.5225466
TACR1	-1.545412404	0.672734829	-25.4663969	3.55E-114	5.71E-112	249.8223927
CACHD1	-1.876664196	1.707178767	-25.44855707	4.75E-114	7.60E-112	249.5303465
WDR86-AS1	-1.292870472	0.62094774	-25.36795833	1.78E-113	2.82E-111	248.211641
CD36	-4.094042144	2.663612704	-25.36246812	1.95E-113	3.08E-111	248.1218575
PYCR1	2.218262726	4.875971513	25.30325917	5.14E-113	8.07E-111	247.1539494
HOXA5	-2.148756742	1.405754542	-25.28657886	6.76E-113	1.06E-110	246.8813899
LIMS2	-1.650063364	1.696544631	-25.25436174	1.15E-112	1.77E-110	246.3551045
HOXA6	-1.174176985	0.485183409	-25.24533159	1.33E-112	2.04E-110	246.207627
MTURN	-2.15156445	2.888083971	-25.24157718	1.41E-112	2.16E-110	246.1463157
NR3C2	-1.59358459	1.102578142	-25.22118033	1.97E-112	3.01E-110	245.8132726
PPAP2B	-1.906166683	3.67061244	-25.1596962	5.39E-112	8.19E-110	244.8098301
PEAR1	-1.486178329	1.268751874	-25.11690509	1.08E-111	1.64E-109	244.111893
PPP1R1A	-3.234760834	1.609324522	-25.04283393	3.64E-111	5.45E-109	242.9046072
PDE3B	-1.725619602	0.740059254	-25.0273082	4.69E-111	7.00E-109	242.6516891
HBB	-3.789685861	2.512627529	-25.02181019	5.13E-111	7.64E-109	242.5621364
DST	-2.268982779	2.465093436	-25.01100601	6.12E-111	9.09E-109	242.3861732
BHMT2	-1.876769264	1.109038377	-25.00355465	6.91E-111	1.02E-108	242.2648293
KCNB1	-1.308599496	0.413668729	-24.94829659	1.70E-110	2.51E-108	241.3653047
GHR	-2.446611151	1.850541054	-24.93177227	2.23E-110	3.28E-108	241.0964292
PREX2	-1.294416205	0.858220607	-24.9011268	3.67E-110	5.40E-108	240.5979254
ANKRD29	-1.471531442	0.831250282	-24.89466733	4.08E-110	5.97E-108	240.4928745
FAM149A	-1.062047009	0.723617984	-24.87340367	5.77E-110	8.42E-108	240.1471205

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CAT	-1.743270052	4.759958743	-24.84736914	8.81E-110	1.28E-107	239.7239142
CD34	-1.883326592	3.082436653	-24.8398107	9.97E-110	1.44E-107	239.6010728
CPED1	-1.934660594	1.303665976	-24.80296362	1.82E-109	2.63E-107	239.0023922
CXorf36	-1.700984608	2.016465208	-24.76884024	3.17E-109	4.54E-107	238.4482109
PYGM	-1.139523662	0.356594109	-24.75568901	3.92E-109	5.58E-107	238.2346914
SH3D19	-1.767596892	3.139243105	-24.75470763	3.98E-109	5.66E-107	238.2187593
NTRK2	-2.969244676	1.651906549	-24.75302032	4.09E-109	5.80E-107	238.1913676
SEMA3G	-2.553354537	2.47985367	-24.74634282	4.56E-109	6.44E-107	238.0829708
FGF2	-2.213509579	1.202537379	-24.73652599	5.35E-109	7.53E-107	237.9236294
PID1	-1.835757809	1.373693723	-24.70498081	8.94E-109	1.26E-106	237.4117392
NEK2	2.509863322	2.801263828	24.691271	1.12E-108	1.56E-106	237.189331
ACSS2	-1.421225844	3.245621171	-24.68324335	1.27E-108	1.77E-106	237.0591199
TCEAL7	-1.634542609	1.31179525	-24.67629403	1.43E-108	1.97E-106	236.9464104
EEPD1	-1.360539148	1.74417132	-24.67304712	1.50E-108	2.07E-106	236.893753
CCDC69	-2.398557426	2.402461856	-24.65637624	1.97E-108	2.71E-106	236.6234235
PQLC2L	-1.143671773	0.47248378	-24.644141	2.40E-108	3.30E-106	236.4250576
RP11-474O21.5	-1.311573592	0.77197697	-24.56250402	9.05E-108	1.23E-105	235.1023018
C2orf88	-1.364875571	0.645303473	-24.55755508	9.81E-108	1.33E-105	235.0221595
SYNM	-3.550159026	2.568791841	-24.55367335	1.04E-107	1.42E-105	234.959303
JAM2	-1.801293923	1.923068551	-24.55205458	1.07E-107	1.45E-105	234.9330914
P2RY12	-1.446543302	0.783034973	-24.50224114	2.41E-107	3.22E-105	234.1267653
GNAI1	-1.959027116	1.961124071	-24.49939474	2.52E-107	3.37E-105	234.0807067
ENPP2	-2.56980457	2.361595882	-24.49407722	2.75E-107	3.66E-105	233.9946665
MMRN1	-2.146382635	1.005590042	-24.47532567	3.72E-107	4.94E-105	233.6913051

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
RP1-302G2.5	-1.501955106	0.624175327	-24.44200147	6.39E-107	8.46E-105	233.1523728
SAA2-SAA4	-3.069013382	1.256714376	-24.41774922	9.47E-107	1.25E-104	232.7603047
PDK4	-3.599501442	3.148088532	-24.41753033	9.50E-107	1.25E-104	232.7567667
IGF1	-1.016632427	0.489522503	-24.39916503	1.28E-106	1.68E-104	232.4599533
ASF1B	2.261925959	3.299550987	24.39026344	1.48E-106	1.93E-104	232.3161151
RP11-517I3.2	-1.186588099	0.895499251	-24.37790593	1.80E-106	2.35E-104	232.1164619
ADIPOQ	-4.615797793	2.019568479	-24.37733491	1.82E-106	2.36E-104	232.1072371
PHYHIP	-1.021884886	0.503026436	-24.37394568	1.92E-106	2.49E-104	232.0524854
COL10A1	4.274264366	4.240325833	24.32458266	4.28E-106	5.49E-104	231.2553265
NNAT	-2.311117573	1.133151028	-24.31573989	4.94E-106	6.32E-104	231.1125812
FHL5	-1.481692974	0.863665305	-24.31471894	5.02E-106	6.41E-104	231.0961014
UBE2T	2.566790277	4.050339377	24.30035081	6.33E-106	8.07E-104	230.8642018
EBF2	-1.060743981	0.671280274	-24.26471372	1.13E-105	1.43E-103	230.2892186
FAM126A	-1.372202284	1.180580095	-24.24992248	1.43E-105	1.81E-103	230.0506525
CREB5	-1.093447593	0.690868803	-24.24991961	1.43E-105	1.81E-103	230.0506061
EDNRB	-1.845283056	1.635002873	-24.24466573	1.56E-105	1.96E-103	229.9658785
HBA2	-2.870659613	1.350981307	-24.22290213	2.21E-105	2.78E-103	229.6149683
HAS3	-2.037421898	1.026107129	-24.21338601	2.58E-105	3.22E-103	229.4615657
MATN2	-2.799946339	2.314019805	-24.20163976	3.12E-105	3.89E-103	229.2722404
SLC35G2	-1.022490094	0.817170799	-24.19199055	3.65E-105	4.52E-103	229.1167379
TMOD1	-1.478942689	0.685654584	-24.19129824	3.69E-105	4.56E-103	229.1055818
FZD4	-2.134696366	2.85815096	-24.18678164	3.97E-105	4.90E-103	229.0328019
APCDD1	-2.067419029	2.127463146	-24.15597383	6.53E-105	8.01E-103	228.53649
CA3	-2.377954445	0.902472939	-24.14551284	7.73E-105	9.46E-103	228.3680119

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
TK1	2.626072213	4.688669314	23.96982064	1.31E-103	1.58E-101	225.5420943
RSPO3	-1.741250035	1.095251547	-23.94786686	1.87E-103	2.24E-101	225.1894704
RELN	-1.161474321	0.358952661	-23.94625191	1.92E-103	2.30E-101	225.1635352
CLDN11	-1.933473922	1.202275906	-23.90053514	4.00E-103	4.76E-101	224.4295988
TPM3	1.192931027	5.82274906	23.87304635	6.23E-103	7.36E-101	223.9885255
ANGPT1	-1.463762236	0.716015862	-23.86278274	7.35E-103	8.65E-101	223.8238849
FAM107A	-2.432980312	1.242404827	-23.85177488	8.77E-103	1.03E-100	223.6473325
RP11-286B14.1	-1.715735591	0.566710263	-23.83603519	1.13E-102	1.32E-100	223.3949364
PLAC9	-2.642169162	2.121212034	-23.8186719	1.49E-102	1.74E-100	223.1165715
INMT	-1.775305258	1.116652957	-23.81022779	1.71E-102	1.99E-100	222.9812225
CEP68	-1.038595318	2.421013631	-23.77173568	3.17E-102	3.67E-100	222.3644507
PPP1R14A	-2.237332847	1.580469513	-23.74853577	4.60E-102	5.30E-100	221.9928784
TCEAL5	-1.272660567	0.449086158	-23.73952324	5.32E-102	6.11E-100	221.8485668
DDR2	-2.155707585	2.478166923	-23.73113911	6.09E-102	6.98E-100	221.7143345
ANK2	-1.279495412	0.85868486	-23.72780793	6.42E-102	7.35E-100	221.6610059
GGTA1P	-1.609750374	1.505866632	-23.71553174	7.82E-102	8.93E-100	221.4645001
TLN2	-1.385784106	1.783214278	-23.70845416	8.76E-102	9.99E-100	221.351225
DTX1	-1.568873844	1.234932846	-23.68585833	1.26E-101	1.43E-99	220.989663
NUSAP1	2.411619666	3.646625337	23.62382325	3.40E-101	3.86E-99	219.9976454
EGFLAM	-1.373336562	1.56569753	-23.60715676	4.44E-101	5.03E-99	219.7312841
CASQ2	-1.526148861	0.735819152	-23.54967285	1.12E-100	1.25E-98	218.8130958
CNN1	-3.079192109	2.811429024	-23.54650442	1.17E-100	1.32E-98	218.7625098
GNG11	-1.927151196	3.156842239	-23.52948189	1.54E-100	1.72E-98	218.4907753
PLSCR4	-1.917088643	2.511467899	-23.50517387	2.27E-100	2.53E-98	218.1028623

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
ROBO4	-1.486301673	1.99591171	-23.489744	2.91E-100	3.23E-98	217.8567034
SLC50A1	1.724602793	5.19612635	23.35548294	2.48E-99	2.71E-97	215.7172379
UBE2C	3.211739494	4.231916883	23.33655025	3.36E-99	3.66E-97	215.4159002
AC097724.3	-1.006940987	0.617652009	-23.32832137	3.83E-99	4.16E-97	215.2849549
NMT2	-1.488118058	2.01256815	-23.30636601	5.44E-99	5.89E-97	214.935664
SRPX	-2.499318901	3.078476215	-23.23440294	1.71E-98	1.84E-96	213.7916367
FOXO1	-1.655151551	2.571724023	-23.15977722	5.61E-98	5.98E-96	212.6066547
TTC28	-1.141891713	1.545026279	-23.15517682	6.04E-98	6.42E-96	212.5336511
F8	-1.267339409	1.592886725	-23.13475586	8.35E-98	8.87E-96	212.2096561
MRAS	-2.082774047	2.646334645	-23.12923655	9.12E-98	9.65E-96	212.122106
TPX2	2.731846639	3.946835407	23.10504524	1.34E-97	1.41E-95	211.7384629
TSPAN7	-2.240484203	1.987113938	-23.10216016	1.40E-97	1.48E-95	211.6927192
TGFBR2	-2.238686726	4.467988321	-23.08142096	1.95E-97	2.05E-95	211.3639565
MAOA	-3.067723663	2.10638557	-23.06748017	2.43E-97	2.55E-95	211.1430258
GSTM5	-1.786230572	0.703062401	-23.06263237	2.63E-97	2.75E-95	211.0662104
KANK1	-1.656067579	2.169781901	-23.03688034	3.96E-97	4.13E-95	210.658261
KLHL13	-1.91181802	1.065998518	-23.01340385	5.74E-97	5.98E-95	210.2865083
CCNB1	2.104919357	4.059648128	23.00660804	6.40E-97	6.65E-95	210.1789225
AKAP12	-2.243656763	2.220315979	-23.00017974	7.08E-97	7.35E-95	210.0771658
RASSF9	-1.089266471	0.676872618	-22.98514298	8.99E-97	9.29E-95	209.8391835
SLIT3	-2.087497453	2.163493542	-22.97848065	9.99E-97	1.03E-94	209.7337594
ITSN1	-1.092021833	1.637801285	-22.94901337	1.59E-96	1.63E-94	209.2676107
FGF1	-1.848799568	1.84054329	-22.90809853	3.05E-96	3.11E-94	208.6207463
PI16	-3.485198546	1.668168755	-22.90269097	3.32E-96	3.39E-94	208.5352854

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
AADAC	-1.203078405	0.24973364	-22.88752785	4.22E-96	4.30E-94	208.2956889
CCDC3	-2.224108248	2.542169305	-22.88459864	4.43E-96	4.49E-94	208.2494106
ZWINT	2.097877025	3.879583833	22.86573109	5.97E-96	6.05E-94	207.9513784
RP11-295M3.4	-2.28227245	1.146500944	-22.84527513	8.25E-96	8.33E-94	207.6283614
AKR1C2	-2.719707294	1.108583707	-22.8324767	1.01E-95	1.02E-93	207.4263196
ANXA1	-2.499269982	4.89718637	-22.79514785	1.82E-95	1.83E-93	206.8372769
NATD1	-1.446794842	2.225100404	-22.76893886	2.76E-95	2.76E-93	206.4239247
SLC35A2	1.167090274	4.082999623	22.76140665	3.11E-95	3.10E-93	206.3051653
GPX3	-3.266137238	4.181722761	-22.72563368	5.47E-95	5.43E-93	205.7413436
NACC1	1.267206805	4.454001198	22.673334	1.25E-94	1.24E-92	204.9176604
IL33	-2.783655413	1.965383197	-22.66512972	1.42E-94	1.41E-92	204.7885154
WASF3	-1.724549782	1.566297858	-22.63561709	2.26E-94	2.23E-92	204.324103
PCDHGB7	-1.054390679	0.846270784	-22.61643775	3.06E-94	3.01E-92	204.0224223
SYNPO2	-2.238680378	2.043081197	-22.57467247	5.92E-94	5.81E-92	203.3658229
1-Mar	-1.707732014	1.548569901	-22.5541751	8.17E-94	8.00E-92	203.0437541
ACTA2-AS1	-1.576553467	0.905816205	-22.4915451	2.19E-93	2.12E-91	202.0603824
ACO1	-1.449637631	2.935917816	-22.44284252	4.71E-93	4.54E-91	201.2964366
TMEM37	-2.217755268	2.369827281	-22.43477812	5.35E-93	5.14E-91	201.1700022
KIAA0101	1.880020632	2.322904672	22.41305514	7.52E-93	7.22E-91	200.8295174
CLIC5	-1.169210922	0.806343498	-22.41182999	7.67E-93	7.35E-91	200.8103183
MEOX1	-2.255905705	1.42042568	-22.40933052	7.97E-93	7.62E-91	200.7711512
LHFP	-2.058822739	3.990646751	-22.40214378	8.93E-93	8.52E-91	200.658543
CDK1	2.256349442	3.234237602	22.35917711	1.75E-92	1.66E-90	199.9856041
AC096772.6	-1.144511348	1.974075023	-22.27123528	6.96E-92	6.56E-90	198.609886

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
FABP4	-5.490520445	3.963868029	-22.25982909	8.32E-92	7.83E-90	198.4316133
KCNMB1	-1.731440984	1.101993691	-22.23686359	1.19E-91	1.12E-89	198.0727865
MYCT1	-1.558793892	2.026779961	-22.17328581	3.23E-91	3.00E-89	197.0801933
SLC7A3	-1.116718891	0.344737288	-22.16239332	3.83E-91	3.56E-89	196.9102528
S100B	-3.46813951	2.063081546	-22.12341418	7.04E-91	6.52E-89	196.3023942
PROS1	-1.906846865	2.49370573	-22.07623905	1.47E-90	1.36E-88	195.56731
SH3BGRL2	-1.846813664	2.286603598	-22.05511505	2.04E-90	1.89E-88	195.2383641
XPNPEP2	-1.051372811	0.437382295	-22.04698625	2.32E-90	2.14E-88	195.1118158
NPY2R	-1.482414649	0.29328972	-22.04626954	2.35E-90	2.16E-88	195.100659
PPAP2A	-1.685069248	3.943789693	-22.04020793	2.58E-90	2.37E-88	195.0063063
CLMP	-2.091661231	2.803464833	-21.98175908	6.42E-90	5.88E-88	194.0970639
MCAM	-1.821646742	3.992341922	-21.96827974	7.92E-90	7.24E-88	193.8875184
RP11-92A5.2	-1.241579816	0.237483746	-21.96775196	7.99E-90	7.29E-88	193.8793148
EZH1	-1.195330644	2.708213718	-21.937924	1.27E-89	1.15E-87	193.4158131
LTBP4	-1.802018004	2.799200299	-21.91196691	1.90E-89	1.71E-87	193.012675
TMTC1	-1.966167712	1.384928355	-21.87980005	3.14E-89	2.80E-87	192.5133696
FGF14-AS2	-1.424600718	1.113173452	-21.86323987	4.06E-89	3.61E-87	192.2564363
GABARAPL1	-1.431010231	3.535609617	-21.82326258	7.57E-89	6.70E-87	191.6365197
RP11-6O2.3	-1.134775139	0.463687873	-21.81268105	8.92E-89	7.89E-87	191.4725147
CCDC50	-1.091831723	3.037772639	-21.80176032	1.06E-88	9.33E-87	191.3032876
GOS2	-3.774856866	3.357083753	-21.80016809	1.08E-88	9.55E-87	191.2786174
LINC00086	-1.273981012	0.726709701	-21.79462121	1.18E-88	1.04E-86	191.1926795
GIMAP8	-1.582612874	2.065917098	-21.7845397	1.38E-88	1.21E-86	191.03651
SPC25	1.584296843	2.096768911	21.78055577	1.47E-88	1.29E-86	190.9748046

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
NAT8L	-2.164492135	1.338022355	-21.75333219	2.24E-88	1.96E-86	190.5532781
FOXN3	-1.37389086	2.490062998	-21.75317682	2.25E-88	1.96E-86	190.5508729
ABCB1	-1.261630274	0.878723898	-21.73897977	2.80E-88	2.44E-86	190.3311366
NDRG2	-2.427766022	3.441700377	-21.73399112	3.03E-88	2.64E-86	190.2539386
METTL7A	-1.786077242	4.182566912	-21.70176067	4.99E-88	4.33E-86	189.7553631
GPR116	-1.644352202	2.665737825	-21.69094334	5.90E-88	5.11E-86	189.5880994
AP000892.6	-1.256789284	0.922936344	-21.68723222	6.25E-88	5.40E-86	189.530724
WDR86	-1.28883905	0.825754737	-21.68594352	6.37E-88	5.50E-86	189.5108012
CLDN5	-2.238690202	1.86221617	-21.65835847	9.77E-88	8.39E-86	189.0844681
KIF4A	2.107813024	2.437692276	21.63842245	1.33E-87	1.14E-85	188.7764964
PTH1R	-1.23502501	0.789183879	-21.61137655	2.02E-87	1.73E-85	188.3588854
AASS	-1.232326151	1.158133332	-21.55415087	4.90E-87	4.18E-85	187.4760126
RBMS2	-1.004543841	2.494747549	-21.54410366	5.73E-87	4.87E-85	187.321109
CMA1	-1.584990554	0.695825351	-21.52083283	8.20E-87	6.94E-85	186.9624489
ALDH1A1	-2.467209179	3.015212261	-21.47184182	1.75E-86	1.48E-84	186.2079264
ERG	-1.281620344	1.615862748	-21.43279471	3.19E-86	2.69E-84	185.6070866
NRG2	-1.122328427	0.449872182	-21.43120841	3.27E-86	2.75E-84	185.5826874
TXNIP	-2.120900423	7.220527192	-21.42207978	3.77E-86	3.16E-84	185.4422932
CYP2U1	-1.019645529	1.430205924	-21.40911971	4.60E-86	3.85E-84	185.2430179
PER1	-2.020614463	2.585563292	-21.36384781	9.24E-86	7.72E-84	184.5473262
RABIF	1.046240646	3.405202013	21.35815785	1.01E-85	8.41E-84	184.4599343
TBX15	-1.458627639	1.468397477	-21.35577868	1.05E-85	8.72E-84	184.4233958
POC1A	1.414760869	2.543715145	21.32474789	1.69E-85	1.40E-83	183.9469981
TGFBR3	-2.737527704	2.487278347	-21.32309767	1.73E-85	1.44E-83	183.9216718

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
PTTG1	2.246707591	3.214274651	21.31397111	1.99E-85	1.65E-83	183.7816198
CCDC167	1.64987687	4.563692725	21.30397322	2.32E-85	1.92E-83	183.6282268
NRN1	-2.080396291	2.576856905	-21.29143331	2.82E-85	2.32E-83	183.4358778
MYLK	-2.111525193	2.609159602	-21.29023207	2.87E-85	2.36E-83	183.4174546
EPAS1	-1.842881948	4.428383263	-21.28927049	2.91E-85	2.39E-83	183.4027075
LMNB1	2.017314271	3.832700092	21.27937401	3.39E-85	2.78E-83	183.2509479
THSD1	-1.077733762	1.431141877	-21.27902711	3.41E-85	2.79E-83	183.2456288
ELMOD3	-1.00266484	2.10259496	-21.24268082	5.96E-85	4.85E-83	182.6885407
TOP2A	2.798682726	4.017873775	21.23436495	6.77E-85	5.51E-83	182.5611404
FERMT2	-1.598318431	2.771844747	-21.21016451	9.82E-85	7.95E-83	182.1905126
IL11RA	-1.244290163	1.622538852	-21.18564291	1.43E-84	1.16E-82	181.8151576
ABCC9	-1.271356037	1.040192795	-21.18347083	1.48E-84	1.19E-82	181.7819186
CDKN1C	-1.938125927	2.558569654	-21.16237238	2.04E-84	1.64E-82	181.4591314
NR3C1	-1.59571127	2.844889394	-21.15806977	2.18E-84	1.75E-82	181.3933229
MMRN2	-1.739029567	2.889611611	-21.15570445	2.26E-84	1.82E-82	181.3571479
PIK3C2G	-1.632211023	0.704642056	-21.12274828	3.75E-84	2.99E-82	180.853306
MRGPRF	-1.620069602	1.52865268	-21.11647636	4.13E-84	3.29E-82	180.7574592
PELI2	-1.259465863	1.209883257	-21.10414526	4.99E-84	3.97E-82	180.5690536
CYYR1	-1.853442186	2.706975504	-21.09989686	5.33E-84	4.23E-82	180.5041543
FAM83H-AS1	1.934188252	3.893540282	21.09939187	5.37E-84	4.26E-82	180.4964403
SEMA3D	-1.179199024	0.66416675	-21.07649226	7.62E-84	6.02E-82	180.1467258
EMCN	-1.662751919	2.043228698	-21.0763602	7.64E-84	6.02E-82	180.1447096
ITM2A	-2.528159844	3.267190159	-21.0471807	1.19E-83	9.38E-82	179.6993391
HOXA7	-1.087663616	0.517217469	-21.02007881	1.81E-83	1.42E-81	179.2859283

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
SOX17	-1.450570294	1.303587335	-21.01805598	1.86E-83	1.46E-81	179.2550817
CCM2L	-1.092328651	1.240399529	-20.99558211	2.63E-83	2.04E-81	178.9124635
GYPC	-1.763439976	2.781845021	-20.98572509	3.05E-83	2.37E-81	178.7622437
MAP7D3	-1.225375027	1.204858571	-20.95367354	4.98E-83	3.84E-81	178.2740028
TMEM88	-1.507602007	1.520154071	-20.94541507	5.65E-83	4.35E-81	178.1482562
ADHFE1	-1.297048281	1.183907423	-20.94462547	5.72E-83	4.40E-81	178.1362347
MMD	-1.900915158	2.797731366	-20.94327184	5.84E-83	4.49E-81	178.1156264
KLF4	-2.249159967	3.035795951	-20.92876998	7.29E-83	5.58E-81	177.8948806
SLC25A27	-1.401108924	0.953506054	-20.92515481	7.70E-83	5.89E-81	177.8398617
ARHGEF15	-1.432930806	1.884782011	-20.88274673	1.47E-82	1.12E-80	177.1947801
ISM1	-2.152165498	2.231868191	-20.88019317	1.53E-82	1.16E-80	177.1559562
RNASEH2A	1.482615213	3.904050625	20.87470262	1.66E-82	1.26E-80	177.0724862
BGN	2.289780243	7.828003166	20.86578338	1.90E-82	1.45E-80	176.9369127
FAT4	-1.01169014	0.781823252	-20.86315215	1.98E-82	1.50E-80	176.8969228
AQP1	-2.319948486	5.160759476	-20.84514061	2.61E-82	1.97E-80	176.6232421
GPC3	-3.115646584	2.725274827	-20.83824425	2.90E-82	2.18E-80	176.5184824
LILRB5	-1.114249893	0.600149456	-20.81032493	4.43E-82	3.32E-80	176.0945337
DTL	1.879203147	2.505450091	20.79636903	5.48E-82	4.10E-80	175.882714
RRM2	2.338908918	3.086139211	20.74782878	1.15E-81	8.52E-80	175.1464901
MAML2	-1.821246936	2.123215274	-20.74455986	1.21E-81	8.94E-80	175.096938
ESRP1	1.775410012	4.878920084	20.7164403	1.85E-81	1.37E-79	174.6708345
TF	-2.463524313	1.126761764	-20.69649183	2.50E-81	1.84E-79	174.3687118
ADCY4	-1.211851029	1.20990489	-20.69142657	2.70E-81	1.98E-79	174.2920192
ANTXR2	-1.401384936	2.259168146	-20.64719594	5.29E-81	3.87E-79	173.6226971

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
EGFR	-2.372555036	1.934111274	-20.63021807	6.84E-81	4.99E-79	173.3659555
FAM49A	-1.370285121	1.777049217	-20.58909471	1.28E-80	9.24E-79	172.7444906
KIFC1	2.150264205	3.104353667	20.57979545	1.47E-80	1.06E-78	172.6040386
FAM83H	1.72421699	4.55802917	20.56924112	1.72E-80	1.24E-78	172.4446665
EPHB1	-1.32994163	0.663981729	-20.5608819	1.95E-80	1.41E-78	172.318468
EOGT	-1.151554959	2.275599241	-20.55545615	2.12E-80	1.53E-78	172.2365686
CRB3	1.429063671	3.249742764	20.53745249	2.79E-80	2.00E-78	171.9648842
CD209	-1.459952797	0.875327551	-20.52614741	3.31E-80	2.37E-78	171.7943417
CRYAB	-3.672968073	3.69815264	-20.50771768	4.37E-80	3.12E-78	171.5164151
KIF20A	2.111341702	2.67158334	20.50459416	4.58E-80	3.27E-78	171.4693231
CDKN3	1.760240647	2.393923554	20.49028675	5.69E-80	4.04E-78	171.2536589
ATP6V0B	1.251999242	5.230936309	20.48137224	6.51E-80	4.62E-78	171.1193211
TYRO3	-1.102362374	1.085907445	-20.47521981	7.14E-80	5.06E-78	171.0266227
ECSCR	-1.205208808	1.366221574	-20.44715527	1.09E-79	7.70E-78	170.603942
RP11-166D19.1	-1.301623273	1.398865935	-20.44273101	1.17E-79	8.22E-78	170.5373331
D4S234E	-1.352907738	0.608846646	-20.4338434	1.33E-79	9.38E-78	170.4035474
IQGAP3	2.014927697	2.373724592	20.42676564	1.48E-79	1.04E-77	170.2970252
JPH2	-1.51102761	0.885878068	-20.42639927	1.49E-79	1.05E-77	170.2915118
PTRF	-1.934878593	6.055288148	-20.41238849	1.84E-79	1.29E-77	170.0806991
ECM2	-2.033012192	2.405609903	-20.39486884	2.40E-79	1.67E-77	169.8171868
ABCA5	-1.119298839	1.27658879	-20.38017348	3.00E-79	2.09E-77	169.5962372
KLF9	-1.614211891	3.374815751	-20.37383538	3.30E-79	2.29E-77	169.5009652
PCAT19	-1.036769791	1.1051379	-20.35924472	4.11E-79	2.85E-77	169.2816974
NOTCH4	-1.196447696	1.833660854	-20.35379559	4.46E-79	3.09E-77	169.1998272

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
HOXA3	-1.091280158	0.734362194	-20.33427942	5.98E-79	4.13E-77	168.9066933
FOSB	-3.543885872	2.720550978	-20.32938778	6.44E-79	4.45E-77	168.8332415
DGAT2	-2.49798425	2.186903683	-20.32774775	6.60E-79	4.55E-77	168.8086171
H2AFZ	1.365104864	6.204176989	20.32115125	7.29E-79	5.02E-77	168.7095828
CENPF	2.171131648	2.977806376	20.30752201	8.95E-79	6.16E-77	168.5050136
SAMD4A	-1.089283714	1.219793255	-20.30108559	9.86E-79	6.77E-77	168.4084283
PAQR4	1.891103611	3.309721671	20.29323114	1.11E-78	7.61E-77	168.290584
CTHRC1	2.415327406	5.296144713	20.26632912	1.66E-78	1.13E-76	167.8871243
SPINT2	1.748762206	6.517595273	20.26545874	1.69E-78	1.15E-76	167.8740752
S1PR1	-1.927349408	3.023108981	-20.25777105	1.89E-78	1.29E-76	167.7588296
UHRF1	1.720138605	2.09137904	20.24389529	2.33E-78	1.58E-76	167.5508723
TNNT3	-1.541103231	0.593003441	-20.21209496	3.76E-78	2.53E-76	167.0745359
C10orf128	-1.286589592	1.409741055	-20.21125398	3.81E-78	2.56E-76	167.0619439
PPP4C	1.208017497	5.408489566	20.18455216	5.68E-78	3.82E-76	166.6622646
PTPN14	-1.485766235	2.018164265	-20.16531718	7.58E-78	5.09E-76	166.3745088
PKMYT1	1.782212366	1.965010895	20.15745006	8.53E-78	5.72E-76	166.2568546
DPT	-3.156346176	4.079861643	-20.15452897	8.91E-78	5.97E-76	166.2131749
KIT	-2.89245036	2.479663405	-20.15407283	8.98E-78	6.00E-76	166.2063544
FAM89A	-1.79863302	1.718232274	-20.13234658	1.24E-77	8.29E-76	165.8815764
DNAJB4	-1.221357323	2.61338788	-20.12526618	1.38E-77	9.19E-76	165.7757708
PTPRB	-1.361231504	1.58344936	-20.10383812	1.91E-77	1.26E-75	165.4556713
SOX7	-1.257474539	1.319827442	-20.09813886	2.08E-77	1.37E-75	165.3705618
NUP210	1.679865157	3.868988084	20.0947349	2.18E-77	1.44E-75	165.3197346
DAAM2	-1.42538319	1.693602407	-20.09400539	2.21E-77	1.45E-75	165.3088423

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CNRIP1	-1.259467473	1.76817858	-20.07065463	3.13E-77	2.05E-75	164.9602925
AKR1C3	-2.119772626	2.029534831	-20.05969176	3.69E-77	2.41E-75	164.7967211
BIRC5	2.460494877	3.157796557	20.03574233	5.28E-77	3.44E-75	164.4395356
CCT3	1.119598958	6.685142017	20.02766444	5.96E-77	3.88E-75	164.3191077
GNG2	-1.439695596	1.895073893	-20.02070246	6.61E-77	4.29E-75	164.2153352
PLAGL1	-1.383158997	1.300909359	-20.02034086	6.65E-77	4.31E-75	164.2099458
HN1	1.868837274	4.762494574	20.01380364	7.33E-77	4.75E-75	164.1125215
AC093850.2	2.562847418	2.562801766	19.98363545	1.15E-76	7.42E-75	163.6631261
RHOJ	-1.411114482	2.172785666	-19.97819493	1.25E-76	8.04E-75	163.5821177
ADRBK2	-1.286812201	2.152365075	-19.96977386	1.41E-76	9.11E-75	163.4567507
CRYBG3	-1.422654417	1.254220063	-19.94910838	1.93E-76	1.24E-74	163.1492076
TIMM17A	1.030402868	4.447914332	19.93872582	2.25E-76	1.44E-74	162.9947537
RAPGEF3	-1.211270807	1.229885569	-19.92584702	2.72E-76	1.74E-74	162.8032201
CEP55	2.06127482	2.60376207	19.92579043	2.73E-76	1.74E-74	162.8023786
PBK	2.042599408	2.52657757	19.90719754	3.60E-76	2.29E-74	162.5259728
NPR2	-1.280422081	1.725573133	-19.90173986	3.90E-76	2.49E-74	162.4448619
AOX1	-1.904744289	1.376318538	-19.89413081	4.37E-76	2.78E-74	162.3317962
RECK	-1.39715533	1.836518473	-19.88184711	5.25E-76	3.32E-74	162.1493132
FAXDC2	-2.067790131	1.948982092	-19.88061841	5.35E-76	3.38E-74	162.131063
RP1-193H18.2	-1.255123356	1.260276915	-19.86826408	6.43E-76	4.05E-74	161.9475924
TNS2	-1.543169451	3.428617082	-19.86041318	7.22E-76	4.55E-74	161.8310304
MARCKSL1	1.627040161	7.575157865	19.8581236	7.47E-76	4.70E-74	161.7970414
VWF	-1.916187689	4.101031844	-19.85398692	7.95E-76	5.00E-74	161.7356369
TMEM178A	-1.24258135	0.822175476	-19.83357691	1.08E-75	6.74E-74	161.4327653

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CBX7	-1.43858533	2.248794335	-19.80556827	1.63E-75	1.02E-73	161.0173867
RP11-389C8.2	-1.068031272	1.335135116	-19.80037384	1.76E-75	1.10E-73	160.9403833
INHBA	2.22957408	2.999249307	19.79209451	2.00E-75	1.24E-73	160.8176697
HSD17B6	1.289478528	1.56197233	19.78047523	2.37E-75	1.47E-73	160.6454952
KIF11	1.765483888	2.880892111	19.78003025	2.39E-75	1.48E-73	160.6389026
AP1M2	1.849231705	5.424089365	19.77068924	2.74E-75	1.69E-73	160.5005256
TACC3	1.612235125	2.786224179	19.76351027	3.05E-75	1.88E-73	160.3941991
FAM110D	-1.437595699	1.22588555	-19.75244642	3.60E-75	2.21E-73	160.2303719
SSPN	-1.554992727	2.40391802	-19.74514176	4.01E-75	2.46E-73	160.1222339
SAA2	-2.771597597	1.604093868	-19.74302209	4.14E-75	2.54E-73	160.0908581
AC016995.3	-1.96293488	0.933443999	-19.72858258	5.13E-75	3.14E-73	159.877166
ADAMTS1	-2.248734938	2.851537656	-19.72404105	5.48E-75	3.35E-73	159.8099716
RCBTB2	-1.040429098	2.258418932	-19.70572988	7.20E-75	4.39E-73	159.539126
PLA2R1	-1.174200015	1.587062158	-19.70252706	7.55E-75	4.60E-73	159.4917651
TWIST2	-1.672307297	1.596089239	-19.69977583	7.86E-75	4.79E-73	159.4510851
RUSC1	1.194382786	3.640207978	19.6780996	1.08E-74	6.59E-73	159.1306776
PLEKHH2	-1.127482663	0.891777859	-19.63723552	1.99E-74	1.21E-72	158.5271263
PKD2	-1.341993532	2.582132323	-19.63491652	2.05E-74	1.25E-72	158.4928942
KANK3	-1.153657132	1.024640399	-19.61692553	2.68E-74	1.62E-72	158.2273884
COX7A1	-2.100243552	2.762990771	-19.61651245	2.70E-74	1.63E-72	158.2212936
CDC20	2.537563926	3.692037181	19.61589135	2.72E-74	1.64E-72	158.21213
POLR3K	1.276806324	3.760799562	19.61170513	2.90E-74	1.75E-72	158.1503702
PDGFD	-1.828689775	2.606282003	-19.58241695	4.47E-74	2.69E-72	157.7184643
DOCK11	-1.593514385	1.941985784	-19.58175737	4.51E-74	2.71E-72	157.7087414

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
UGP2	-1.060210829	4.313465111	-19.57320911	5.12E-74	3.07E-72	157.5827458
CADM3	-1.515239102	0.798242881	-19.56313485	5.94E-74	3.55E-72	157.4342938
RGN	-1.305909653	0.713305367	-19.55332218	6.87E-74	4.10E-72	157.2897337
CELF2	-1.593587831	2.013074404	-19.53291459	9.29E-74	5.53E-72	156.9892072
LARP6	-1.243060529	1.466938899	-19.53224473	9.38E-74	5.58E-72	156.9793455
EHBP1	-1.011343093	2.581800206	-19.50423417	1.42E-73	8.40E-72	156.5671226
ALX4	-1.263120637	0.523747076	-19.502501	1.45E-73	8.60E-72	156.5416259
FAT2	-1.549543237	0.77793067	-19.48727189	1.82E-73	1.08E-71	156.3176401
TSTA3	1.53796665	4.805862358	19.48499169	1.88E-73	1.11E-71	156.2841112
HMMR	1.607084052	2.010710702	19.48319728	1.93E-73	1.14E-71	156.2577269
MT1M	-1.898685902	1.388025832	-19.48145006	1.98E-73	1.17E-71	156.2320378
ACSL1	-2.256901603	4.067010585	-19.46519256	2.52E-73	1.48E-71	155.9930614
DPP3	1.254655612	3.977800645	19.45851223	2.78E-73	1.63E-71	155.8948937
WDR34	1.446578508	4.972650328	19.45117688	3.10E-73	1.82E-71	155.7871203
RHOQ	-1.196530796	3.567708381	-19.41105478	5.60E-73	3.27E-71	155.1980004
MIR22HG	-1.211087592	2.340103215	-19.40993228	5.69E-73	3.32E-71	155.1815275
KIF22	1.255770323	4.043970983	19.39051883	7.57E-73	4.41E-71	154.8967084
EDN3	-1.727721042	0.587120787	-19.38083892	8.73E-73	5.08E-71	154.7547469
AURKA	1.998956954	2.853178844	19.37285061	9.82E-73	5.71E-71	154.637621
CX3CL1	-2.639323067	3.251093524	-19.32910731	1.87E-72	1.08E-70	153.9966903
RGL1	-1.385235776	2.479716299	-19.32053748	2.12E-72	1.23E-70	153.8712117
CTXN1	2.301037073	3.845285475	19.31695403	2.23E-72	1.29E-70	153.8187517
CDCA8	1.982181334	2.938807653	19.31655105	2.25E-72	1.30E-70	153.8128526
GPRASP2	-1.140216889	1.928321398	-19.30003038	2.86E-72	1.65E-70	153.5710655

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
EHD2	-1.796198149	4.659129023	-19.28252096	3.70E-72	2.13E-70	153.3149242
MSRB3	-1.802172281	2.893670429	-19.27233468	4.30E-72	2.46E-70	153.1659667
LSM4	1.237813598	4.918221229	19.26833459	4.56E-72	2.61E-70	153.1074831
CCDC64	1.569499817	2.190951824	19.26787661	4.59E-72	2.62E-70	153.1007876
PRC1	1.861917474	3.105992113	19.24483058	6.43E-72	3.67E-70	152.7639683
HNRNPAB	1.0075349	6.2874086	19.24409765	6.50E-72	3.71E-70	152.7532599
RAB25	1.843908863	5.911273565	19.24236699	6.67E-72	3.80E-70	152.7279752
BMP2	-1.183534199	0.685081862	-19.24000396	6.90E-72	3.93E-70	152.6934534
COMP	3.426312313	4.389268144	19.17864072	1.70E-71	9.60E-70	151.797763
TMEM63B	1.112205184	4.129778001	19.13257626	3.32E-71	1.87E-69	151.1263614
NDN	-1.763005348	2.935941634	-19.12384596	3.78E-71	2.13E-69	150.9992099
SLC20A1	1.030675564	3.851116426	19.11562681	4.26E-71	2.40E-69	150.8795309
SAA1	-4.345671786	4.633325907	-19.10882244	4.70E-71	2.64E-69	150.7804729
SYNPO	-1.515989474	3.125732734	-19.09424161	5.82E-71	3.26E-69	150.5682673
ANO6	-1.284992995	3.776905454	-19.09139616	6.07E-71	3.40E-69	150.5268652
SPRY1	-1.90133795	3.308423569	-19.08488256	6.67E-71	3.73E-69	150.4321028
MIR23A	-1.458342263	0.818638599	-19.07860557	7.31E-71	4.07E-69	150.3407987
TEK	-1.441591673	1.860866237	-19.06753354	8.59E-71	4.78E-69	150.1797853
CCNB2	1.985787368	2.85837583	19.05502189	1.03E-70	5.73E-69	149.9978953
RMI2	1.684364761	2.544317162	19.04394101	1.21E-70	6.71E-69	149.8368579
AIFM2	-1.278343297	2.371606302	-19.04090846	1.27E-70	7.00E-69	149.7927947
CDH13	-1.005697276	1.453147047	-19.03961097	1.29E-70	7.13E-69	149.7739432
ARID5B	-1.520090355	3.310887465	-19.03706137	1.34E-70	7.39E-69	149.7369014
PTPN21	-1.228967791	1.826042735	-19.02908032	1.51E-70	8.29E-69	149.6209662

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CENPM	1.637500683	2.27323636	19.02769981	1.54E-70	8.45E-69	149.6009149
FGFBP2	-1.850637472	0.709349471	-19.02175454	1.67E-70	9.21E-69	149.514572
PLK1	1.949352575	2.476019194	19.01152095	1.94E-70	1.07E-68	149.3659832
CSRNP1	-1.614813022	3.719022009	-19.00911739	2.01E-70	1.10E-68	149.3310903
TFPI	-1.43920088	1.378075227	-19.0078175	2.05E-70	1.12E-68	149.3122205
GABRE	-1.627200655	0.80520635	-18.98998759	2.66E-70	1.46E-68	149.0534627
JTB	1.043500741	6.75834411	18.98467988	2.87E-70	1.57E-68	148.9764589
DLGAP5	1.788197938	2.195524633	18.97861971	3.14E-70	1.71E-68	148.8885524
EPB41L2	-1.536920834	2.836287905	-18.97697123	3.21E-70	1.75E-68	148.8646427
BMP6	-1.434639857	1.158715057	-18.97412294	3.35E-70	1.83E-68	148.8233335
STAT5B	-1.207456583	3.714600112	-18.97072847	3.52E-70	1.92E-68	148.7741073
CFD	-3.356600902	3.934343555	-18.97023386	3.55E-70	1.93E-68	148.7669349
HADH	-1.095765098	4.676360694	-18.93915478	5.57E-70	3.02E-68	148.3164525
CENPU	1.693723928	2.932426333	18.91233403	8.23E-70	4.44E-68	147.9280082
LRRN3	-1.151004016	0.608835727	-18.91182268	8.29E-70	4.47E-68	147.9206052
MAZ	1.117175275	4.371558259	18.87438949	1.43E-69	7.68E-68	147.378958
CD302	-1.258765737	1.636680307	-18.85685243	1.84E-69	9.87E-68	147.1253985
NUF2	1.904556103	2.213184922	18.85449652	1.90E-69	1.02E-67	147.0913452
DIXDC1	-1.294353119	2.287257598	-18.83811431	2.41E-69	1.29E-67	146.8546122
SMIM10	-1.167536547	1.656368788	-18.83330369	2.59E-69	1.38E-67	146.7851168
CNTFR	-2.45233795	1.455061914	-18.82714352	2.83E-69	1.51E-67	146.6961392
APOA1BP	1.206418383	5.88463986	18.82364037	2.98E-69	1.59E-67	146.6455465
MKI67	2.011358686	2.727094525	18.81821341	3.22E-69	1.72E-67	146.5671801
HJURP	1.700404243	1.993730453	18.81396245	3.43E-69	1.83E-67	146.5058038

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
AMOTL2	-1.424464544	3.640217137	-18.80593524	3.85E-69	2.05E-67	146.3899253
EZH2	1.495191019	2.507534983	18.7990648	4.25E-69	2.26E-67	146.2907667
BUB1B	1.63892701	2.162284177	18.79688107	4.39E-69	2.33E-67	146.2592537
TEF	-1.256817858	2.782347555	-18.79000306	4.85E-69	2.57E-67	146.1600116
MEG3	-1.266326954	1.058521293	-18.75809927	7.69E-69	4.06E-67	145.6999288
HN1L	1.221101942	5.600188641	18.75115402	8.50E-69	4.48E-67	145.5998275
C10orf54	-1.530483251	2.726620005	-18.74229561	9.66E-69	5.08E-67	145.4721807
SPC24	1.597184994	2.017157791	18.73908635	1.01E-68	5.31E-67	145.4259443
KPNA2	1.831450222	5.272598584	18.69334785	1.96E-68	1.02E-66	144.7674448
TNFRSF10D	-1.148966315	0.958788266	-18.69055969	2.04E-68	1.06E-66	144.7273316
MGLL	-1.952585954	3.08357139	-18.68751061	2.13E-68	1.11E-66	144.6834682
ADAMTSL4	-1.325198724	1.325916723	-18.68619561	2.17E-68	1.13E-66	144.664552
SOX12	1.440113617	3.458777472	18.66776406	2.83E-68	1.48E-66	144.3994922
LLGL2	1.491664632	3.553782627	18.66454522	2.97E-68	1.54E-66	144.3532173
KIF2C	1.989323385	2.653287456	18.661448	3.10E-68	1.61E-66	144.3086949
CLIP4	-1.472201974	1.588002103	-18.64585778	3.89E-68	2.01E-66	144.0846469
CDK5	1.055562461	2.846346595	18.63848778	4.32E-68	2.23E-66	143.9787674
CCNF	1.182979202	2.428303542	18.62898683	4.96E-68	2.56E-66	143.8423077
CDC25C	1.232886542	1.390562142	18.62528581	5.23E-68	2.69E-66	143.789161
CDCA5	1.893925168	2.638971108	18.61398194	6.15E-68	3.17E-66	143.626873
ZNF106	-1.204093836	2.997314026	-18.60913972	6.60E-68	3.39E-66	143.5573701
ARHGEF40	-1.158402135	2.73657728	-18.53804642	1.83E-67	9.35E-66	142.5380653
FN1	2.691945322	7.407806762	18.52748499	2.14E-67	1.08E-65	142.3868213
SOD3	-2.444693083	2.830868184	-18.52538921	2.20E-67	1.12E-65	142.3568146

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
PCDH18	-1.589016961	2.08403535	-18.51811567	2.44E-67	1.24E-65	142.2526884
BUB1	1.705871825	2.10633471	18.5169303	2.48E-67	1.26E-65	142.235721
PTGFR	-1.173231521	0.613349078	-18.51009052	2.74E-67	1.39E-65	142.1378282
C10orf10	-2.252278012	4.486007961	-18.50434166	2.98E-67	1.50E-65	142.0555641
AP1S1	1.117323879	5.071398288	18.48173061	4.12E-67	2.08E-65	141.7321442
TUBA1C	1.261791637	4.294510848	18.47535983	4.51E-67	2.27E-65	141.641058
TP63	-2.101075798	1.361866141	-18.46912921	4.93E-67	2.48E-65	141.5519924
DLC1	-1.467397673	2.271175017	-18.46888011	4.95E-67	2.49E-65	141.5484319
HDGF	1.114686562	6.713797643	18.46343793	5.35E-67	2.69E-65	141.470651
H2AFX	1.610744566	4.404750699	18.45180008	6.33E-67	3.17E-65	141.3043621
PCNA	1.301524021	6.19166503	18.40729592	1.20E-66	5.95E-65	140.6689905
ANLN	2.015850314	2.611741053	18.40327065	1.27E-66	6.30E-65	140.6115645
ABLIM1	-1.48548847	3.697496753	-18.35897038	2.39E-66	1.18E-64	139.9800186
CACNA2D1	-1.192802182	1.223984341	-18.35649574	2.47E-66	1.23E-64	139.9447649
DPYSL2	-1.43429521	3.708442388	-18.35051804	2.70E-66	1.33E-64	139.8596172
MEDAG	-1.869915426	1.997585613	-18.34882021	2.76E-66	1.36E-64	139.8354358
MELK	2.009150277	2.461602661	18.32719799	3.76E-66	1.85E-64	139.5275881
LHX6	-1.063239779	1.019093217	-18.32539275	3.86E-66	1.90E-64	139.501895
ATP6AP1	1.11477689	5.827047408	18.32316342	3.98E-66	1.96E-64	139.4701678
NRG1	-1.082583487	0.539425668	-18.31085249	4.75E-66	2.33E-64	139.2950013
NUAK2	1.264345713	1.941087163	18.30718439	5.00E-66	2.46E-64	139.2428222
SPAG5	1.718235664	2.564030156	18.30256146	5.35E-66	2.62E-64	139.1770688
C16orf59	1.288160936	1.669327275	18.29713848	5.78E-66	2.83E-64	139.0999477
KIF23	1.512603611	2.169426479	18.29060237	6.34E-66	3.10E-64	139.0070134

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CCNA2	1.908495873	2.851190316	18.27996702	7.38E-66	3.60E-64	138.8558333
SLC52A2	1.496341996	4.504687903	18.27303321	8.15E-66	3.97E-64	138.7572962
LSR	1.522690323	5.468750456	18.25093249	1.12E-65	5.42E-64	138.4433596
CDH5	-1.454588761	3.071522409	-18.24608253	1.20E-65	5.79E-64	138.3744951
PARP1	1.067018062	5.261975349	18.23047677	1.49E-65	7.22E-64	138.1529782
EZR	1.330722089	6.790576655	18.21567262	1.84E-65	8.88E-64	137.9429373
TMED3	1.100414371	3.162415727	18.20128697	2.26E-65	1.09E-63	137.7389253
C2CD2	-1.257366234	2.426640151	-18.20022353	2.30E-65	1.10E-63	137.7238475
EGR1	-2.919457464	5.786106906	-18.1948956	2.48E-65	1.19E-63	137.6483142
FBLN5	-1.898526648	3.330611068	-18.18185936	2.98E-65	1.43E-63	137.4635529
CRY2	-1.11331224	3.184973427	-18.15086968	4.63E-65	2.21E-63	137.0246367
GINS1	1.492973435	2.261141894	18.14188596	5.26E-65	2.50E-63	136.8974758
BOC	-1.595307478	1.63742959	-18.12508365	6.68E-65	3.16E-63	136.659741
MBOAT7	1.244433582	4.468337763	18.12250409	6.93E-65	3.28E-63	136.6232539
WISP1	1.823481219	2.20707632	18.11251244	7.99E-65	3.77E-63	136.4819524
MIR27A	-1.119908968	0.534265645	-18.1001461	9.52E-65	4.48E-63	136.3071288
PRIMA1	-1.237970442	0.950116587	-18.09701977	9.95E-65	4.68E-63	136.2629424
AFAP1L1	-1.066044415	1.825355904	-18.0887487	1.12E-64	5.26E-63	136.1460626
OGN	-2.792949834	2.362060653	-18.05716992	1.75E-64	8.20E-63	135.7000946
RGCC	-1.490727004	4.254629228	-18.0541413	1.83E-64	8.55E-63	135.6573463
CRIM1	-1.806219613	4.089268305	-18.05285994	1.86E-64	8.70E-63	135.6392613
FOXM1	2.12091201	2.815460525	18.05261134	1.87E-64	8.72E-63	135.6357527
TPD52	1.782836608	4.743052989	18.05081973	1.92E-64	8.94E-63	135.6104677
RBP7	-2.276898733	3.526534721	-18.04810175	1.99E-64	9.28E-63	135.5721115

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
SLC29A4	-1.423615649	1.152841717	-18.03294322	2.47E-64	1.15E-62	135.3582532
MMP28	-1.281439567	1.279590798	-18.02746364	2.67E-64	1.24E-62	135.2809716
TACC1	-1.739430696	2.87894475	-18.02412677	2.79E-64	1.30E-62	135.2339164
KCTD12	-1.601530463	4.004830226	-18.01355795	3.24E-64	1.51E-62	135.0849116
EMP1	-1.756630988	4.458712828	-17.97379955	5.69E-64	2.64E-62	134.5248191
UBE2S	1.67695618	2.856552052	17.92714548	1.10E-63	5.09E-62	133.8684794
TROAP	1.625783903	1.886709829	17.92506735	1.13E-63	5.24E-62	133.8392663
KAT2B	-1.114554344	2.000133364	-17.92274174	1.17E-63	5.41E-62	133.8065766
TMEM8A	1.121642339	3.987273529	17.92038913	1.21E-63	5.58E-62	133.7735099
UTRN	-1.447969822	3.06270556	-17.91914425	1.23E-63	5.68E-62	133.7560136
PPP2R1B	-1.067356327	2.669813059	-17.90946814	1.41E-63	6.50E-62	133.6200439
SLC9A9	-1.07633285	1.420024855	-17.88920835	1.88E-63	8.64E-62	133.3354865
COL17A1	-3.026372372	2.139401385	-17.88072506	2.12E-63	9.72E-62	133.2163895
DCTPP1	1.148179119	4.994857937	17.87355314	2.34E-63	1.07E-61	133.1157281
SFRP1	-4.208031233	3.713287293	-17.87210037	2.39E-63	1.09E-61	133.0953405
SBK1	1.680827947	2.892409793	17.82951933	4.35E-63	1.98E-61	132.4981971
CALCOCO1	-1.058626006	3.256248566	-17.82095734	4.91E-63	2.23E-61	132.3782247
LOXL4	-1.806094261	1.352554032	-17.81904577	5.04E-63	2.29E-61	132.3514439
FAM189A2	-1.980564856	1.823976268	-17.80842505	5.85E-63	2.66E-61	132.202679
STAT5A	-1.426501914	3.336421567	-17.7975768	6.81E-63	3.09E-61	132.0507797
SNRPB	1.168578344	6.925126919	17.76774695	1.04E-62	4.69E-61	131.6333701
ABI3BP	-1.736881284	1.568465896	-17.75385786	1.26E-62	5.69E-61	131.439157
IRX6	-1.178767957	0.548862592	-17.73175219	1.72E-62	7.72E-61	131.1302306
CXCL12	-2.006757368	4.213275047	-17.72972184	1.77E-62	7.94E-61	131.1018676

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
RECQL4	1.709801853	2.61507659	17.72869587	1.79E-62	8.05E-61	131.0875359
GJB2	2.69872548	3.34061425	17.70916924	2.36E-62	1.05E-60	130.8148629
LAGE3	1.60445191	4.665797005	17.69741325	2.78E-62	1.24E-60	130.6507839
NCAPH	1.60085032	2.236745742	17.69737354	2.78E-62	1.24E-60	130.6502298
LRIG3	-1.425287387	2.040708351	-17.69731152	2.78E-62	1.24E-60	130.6493644
C1QTNF6	1.469481392	2.634523824	17.66897231	4.14E-62	1.84E-60	130.2540925
STX11	-1.298867289	1.516924928	-17.66656327	4.28E-62	1.90E-60	130.2205084
PHLDB1	-1.040456966	2.162473001	-17.65835625	4.80E-62	2.13E-60	130.1061153
N4BP2L1	-1.044031163	1.781304018	-17.644671	5.81E-62	2.56E-60	129.9154324
PDLIM3	-1.660020469	2.160721671	-17.62663963	7.47E-62	3.28E-60	129.664324
SNRPE	1.070592946	5.513177521	17.62245448	7.92E-62	3.48E-60	129.606062
ARL4A	-1.410819603	2.573972329	-17.59246298	1.20E-61	5.27E-60	129.1887816
VAMP8	1.126588817	6.921096841	17.57678629	1.50E-61	6.55E-60	128.9708317
SNRNP25	1.137405591	3.639962397	17.56822218	1.69E-61	7.37E-60	128.8518144
NEXN	-1.264255324	1.85222307	-17.56765252	1.70E-61	7.42E-60	128.8438989
COL11A1	3.315709726	3.478026468	17.55475584	2.04E-61	8.86E-60	128.6647378
LRRC15	2.783338597	3.786599784	17.53467214	2.70E-61	1.17E-59	128.3858872
NDC80	1.646987199	2.087268044	17.52869586	2.93E-61	1.27E-59	128.3029459
PLA2G4A	-1.592170583	1.372477241	-17.52595352	3.04E-61	1.32E-59	128.2648921
RAD51	1.320397778	1.862474108	17.51893435	3.36E-61	1.45E-59	128.1675072
NCAPG	1.560723288	1.974602478	17.48664667	5.26E-61	2.26E-59	127.7198366
PECAM1	-1.503896572	4.443247474	-17.47565597	6.13E-61	2.63E-59	127.5675602
TINAGL1	-1.917965899	2.857826098	-17.46972681	6.66E-61	2.85E-59	127.4854348
CYP26B1	-1.287348911	1.038645117	-17.46366937	7.24E-61	3.09E-59	127.4015494

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
RETSAT	-1.285698242	4.800012729	-17.4489574	8.88E-61	3.78E-59	127.1978843
THRB	-1.34809622	1.976164174	-17.4474168	9.07E-61	3.86E-59	127.1765629
RACGAP1	1.434462578	3.293264168	17.43843664	1.03E-60	4.37E-59	127.052302
TLCD1	1.682794525	3.058740754	17.43657964	1.05E-60	4.48E-59	127.0266108
FLAD1	1.027068262	3.958718123	17.43159959	1.13E-60	4.79E-59	126.957721
MANF	1.010144553	4.873736984	17.41720314	1.38E-60	5.84E-59	126.7586376
SQLE	1.906139097	4.194710094	17.40993457	1.53E-60	6.45E-59	126.6581599
TESC	-1.359392003	1.051191395	-17.39852704	1.79E-60	7.53E-59	126.5005166
ICAM2	-1.086012424	1.651170004	-17.39157871	1.97E-60	8.28E-59	126.4045259
PPAPDC1A	1.952972717	1.96639358	17.38644997	2.11E-60	8.89E-59	126.333687
ELTD1	-1.436004461	3.175262355	-17.37311298	2.54E-60	1.07E-58	126.1495326
SGCG	-1.575398293	0.554003719	-17.36236611	2.95E-60	1.24E-58	126.0012025
HSPA12A	-1.117691972	1.462161757	-17.35485938	3.28E-60	1.37E-58	125.8976254
FANCI	1.338869034	2.613599372	17.33120639	4.54E-60	1.90E-58	125.5714371
MYBL2	2.625450915	3.596061926	17.30925968	6.16E-60	2.56E-58	125.2690144
PSENE1	1.053465654	4.971675835	17.30273725	6.74E-60	2.80E-58	125.1791798
CKAP2L	1.314852856	1.509883386	17.29751361	7.24E-60	3.01E-58	125.1072483
SKA3	1.462649383	1.834451549	17.29657679	7.33E-60	3.04E-58	125.0943493
PTPRM	-1.284302746	2.444931433	-17.2861576	8.47E-60	3.51E-58	124.9509158
OSR1	-1.753288387	1.050413385	-17.28610667	8.48E-60	3.51E-58	124.9502148
SPARCL1	-2.003702422	6.099714844	-17.28421427	8.70E-60	3.60E-58	124.9241691
FAM83D	2.02412227	2.580362948	17.26094914	1.20E-59	4.95E-58	124.6041013
KLHL21	-1.159375321	3.081834694	-17.25777886	1.25E-59	5.17E-58	124.5605063
LAMTOR2	1.209893529	5.261111933	17.23698844	1.67E-59	6.86E-58	124.2747318

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
ECT2	1.443203873	3.269882023	17.23472426	1.72E-59	7.07E-58	124.2436219
HYAL1	-1.01660118	0.849759114	-17.23150538	1.80E-59	7.38E-58	124.1993987
HMGGB3	1.852761477	3.971898512	17.22297824	2.03E-59	8.28E-58	124.0822703
KRT8	2.133691171	7.528255135	17.22072561	2.09E-59	8.54E-58	124.051334
KLF11	-1.089861135	2.686029437	-17.21367282	2.30E-59	9.40E-58	123.9544909
FGF7	-1.27021378	1.232819631	-17.19022905	3.18E-59	1.29E-57	123.63275
pk	-1.223180355	2.683988931	-17.18389485	3.47E-59	1.41E-57	123.5458647
OIP5	1.181162924	1.659597707	17.18316922	3.51E-59	1.42E-57	123.5359126
IL17B	-1.330403787	0.618243129	-17.17950518	3.69E-59	1.50E-57	123.4856635
AMOTL1	-1.468416681	2.396552661	-17.16067545	4.78E-59	1.93E-57	123.2275309
E2F1	1.769338161	2.94697294	17.14513757	5.91E-59	2.39E-57	123.0146528
DAB2IP	-1.107631282	3.131489494	-17.1133846	9.15E-59	3.69E-57	122.5799775
FEN1	1.305109851	3.931853049	17.11100246	9.45E-59	3.81E-57	122.5473871
EPCAM	1.773729034	6.291133681	17.11011483	9.57E-59	3.85E-57	122.5352441
AK5	-1.969547231	1.310360921	-17.08481585	1.35E-58	5.44E-57	122.1893044
COA6	1.08475664	4.131786746	17.08405446	1.37E-58	5.49E-57	122.1788979
P3H4	1.259506129	3.429707958	17.08062008	1.43E-58	5.75E-57	122.1319609
THRSP	-3.205280023	2.636212642	-17.08007959	1.45E-58	5.79E-57	122.1245747
GIMAP6	-1.412101932	2.618715154	-17.06654066	1.74E-58	6.97E-57	121.9395994
SLC25A22	1.154980639	2.915469551	17.05698321	1.98E-58	7.93E-57	121.8090743
EPDR1	-1.480896271	2.217349396	-17.05565253	2.02E-58	8.07E-57	121.7909047
ANGPTL2	-1.80255588	4.127240491	-17.05377232	2.07E-58	8.28E-57	121.7652332
TMBIM1	-1.022128063	4.797122448	-17.05250879	2.11E-58	8.42E-57	121.7479827
PPP1CA	1.013507585	5.914047496	17.01389589	3.58E-58	1.42E-56	121.2211808

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
APOLD1	-1.566441861	2.395952354	-17.00838483	3.86E-58	1.53E-56	121.1460514
ZEB2	-1.01120118	1.460867874	-16.98644042	5.21E-58	2.06E-56	120.8470396
LINC01152	-1.208021168	0.500496723	-16.97830132	5.82E-58	2.30E-56	120.7361965
MTHFD2	1.272379477	4.288674601	16.97607108	6.00E-58	2.37E-56	120.7058293
PENK	-1.024443796	0.292901181	-16.95157911	8.39E-58	3.30E-56	120.3725034
ALDH2	-1.809636006	3.298832023	-16.94645675	9.00E-58	3.54E-56	120.3028269
AHNAK	-1.645706712	6.145427289	-16.92753454	1.16E-57	4.56E-56	120.0455496
SEMA6D	-1.302086427	0.961841118	-16.92046606	1.28E-57	5.02E-56	119.9494872
MAPK10	-1.022668724	0.779520954	-16.91597553	1.36E-57	5.33E-56	119.8884725
NME1	1.477690641	4.084737225	16.89111603	1.91E-57	7.45E-56	119.5508732
GBE1	-1.07714155	2.825756125	-16.88371959	2.12E-57	8.23E-56	119.4504857
GABRD	1.172976267	1.351495871	16.86182619	2.85E-57	1.10E-55	119.1534958
TIMELESS	1.145927461	3.145774219	16.84653111	3.51E-57	1.36E-55	118.9461531
SHANK3	-1.102258351	2.148110267	-16.84001252	3.84E-57	1.48E-55	118.8578209
ALDOC	-2.001014152	2.480087905	-16.81540957	5.36E-57	2.06E-55	118.5246183
HSD11B1	-1.608961674	1.359441743	-16.81514727	5.38E-57	2.07E-55	118.5210675
MRPS34	1.241649553	5.90010267	16.77340779	9.48E-57	3.62E-55	117.9564674
EXO1	1.539061282	1.821245236	16.7589621	1.15E-56	4.40E-55	117.7612638
MET	-1.789522003	2.023953593	-16.74309727	1.43E-56	5.44E-55	117.5470022
MRPL14	1.165495139	5.480047614	16.74217486	1.45E-56	5.51E-55	117.5345485
VGLL3	-1.13855499	1.188854409	-16.73875266	1.52E-56	5.76E-55	117.4883481
AURKB	1.833283929	2.337301948	16.73286985	1.64E-56	6.23E-55	117.4089423
TRABD2B	-1.099755813	0.803556997	-16.730746	1.69E-56	6.39E-55	117.3802789
ID4	-2.5514048	2.821069093	-16.69734384	2.66E-56	1.00E-54	116.9297789

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
PYCRL	1.347606675	3.236951292	16.69205351	2.86E-56	1.08E-54	116.8584782
CBX4	1.407886472	4.097234406	16.68931005	2.96E-56	1.11E-54	116.8215086
RASIP1	-1.233796375	1.923996472	-16.68127919	3.30E-56	1.24E-54	116.7133096
DDX39A	1.203968217	3.963574427	16.65368943	4.80E-56	1.80E-54	116.3418399
ZFP36	-2.153647501	5.920475239	-16.65249854	4.87E-56	1.83E-54	116.3258143
B4GALT3	1.038769325	4.297070107	16.64946458	5.08E-56	1.90E-54	116.2849898
ESM1	1.480606194	1.950025637	16.63423148	6.24E-56	2.32E-54	116.0800852
FLVCR1	1.002305032	2.267552747	16.63121249	6.50E-56	2.42E-54	116.0394896
PNPLA2	-1.46128228	5.037074437	-16.62786548	6.80E-56	2.53E-54	115.9944886
CTD-2396E7.11	1.383493146	3.990888965	16.61220409	8.40E-56	3.11E-54	115.7839933
LMO2	-1.035573508	2.408618571	-16.59977182	9.93E-56	3.67E-54	115.6169859
GTSE1	1.376622477	1.719613845	16.58307762	1.24E-55	4.60E-54	115.392848
HIST1H2BD	2.270944472	4.970254033	16.58233214	1.26E-55	4.64E-54	115.3828425
RPUSD1	1.101008785	3.396337765	16.56215264	1.65E-55	6.07E-54	115.1121045
QKI	-1.044845337	2.548339135	-16.54341289	2.12E-55	7.78E-54	114.8608659
LINC00961	-1.16554639	0.78339186	-16.5324331	2.46E-55	9.01E-54	114.7137449
EGR2	-1.910184526	2.515342852	-16.50981914	3.33E-55	1.22E-53	114.4109257
NFIB	-2.019727668	3.229570924	-16.50702073	3.46E-55	1.26E-53	114.3734707
MPDZ	-1.049422813	2.144109454	-16.5025513	3.67E-55	1.34E-53	114.3136582
SLC27A6	-1.417195729	0.776924126	-16.5021454	3.69E-55	1.35E-53	114.3082267
TLCD2	-1.005899478	1.492725325	-16.48357652	4.74E-55	1.72E-53	114.059839
WIF1	-2.200497029	0.779256917	-16.47416704	5.38E-55	1.95E-53	113.9340391
PPP1R16B	-1.376882933	1.401308397	-16.47078636	5.63E-55	2.04E-53	113.8888519
UNC5B	1.475681386	3.354791481	16.46362231	6.20E-55	2.24E-53	113.7931144

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
MOB3B	-1.226073248	1.400466112	-16.44945702	7.49E-55	2.71E-53	113.6038916
ASPM	1.465821071	1.667253965	16.42991572	9.74E-55	3.51E-53	113.3430219
CCL28	-2.462304838	2.287581438	-16.4249261	1.04E-54	3.75E-53	113.2764431
FAM111B	1.75050276	2.472115355	16.41595818	1.17E-54	4.22E-53	113.1568119
GPR124	-1.350612091	2.551190801	-16.41035116	1.27E-54	4.55E-53	113.0820355
MT1X	-2.091346986	4.002394572	-16.39595768	1.53E-54	5.51E-53	112.8901543
ARHGAP39	1.173310247	2.524286273	16.38142609	1.86E-54	6.67E-53	112.6965388
SDS	1.397556788	2.0134075	16.38106775	1.87E-54	6.70E-53	112.6917656
MFAP4	-2.700786809	4.237212948	-16.37164115	2.12E-54	7.59E-53	112.5662271
PDIA4	1.059628691	6.174944073	16.35660121	2.60E-54	9.26E-53	112.3660267
TRIB3	1.407134768	3.641427678	16.34947563	2.86E-54	1.02E-52	112.2712166
TPRN	1.396165226	2.845300146	16.34744032	2.93E-54	1.04E-52	112.2441404
EFEMP1	-2.29607431	4.338961624	-16.34039159	3.22E-54	1.15E-52	112.1503857
GPRIN1	1.213914592	1.543837414	16.33908729	3.28E-54	1.17E-52	112.13304
FKBP4	1.370816798	6.065491617	16.31999844	4.23E-54	1.50E-52	111.8792807
F3	-1.983222765	2.921882644	-16.30554413	5.13E-54	1.82E-52	111.6872551
KIF18B	1.384802694	1.562513298	16.28574435	6.68E-54	2.36E-52	111.4243888
FLNC	-1.230164958	1.235722934	-16.28558164	6.70E-54	2.36E-52	111.4222295
PAK4	1.106820972	3.7681664	16.2813863	7.08E-54	2.50E-52	111.3665574
P3H2	-1.207192467	1.251699188	-16.28017834	7.20E-54	2.53E-52	111.3505294
ETS2	-1.260144102	3.651037953	-16.26047619	9.36E-54	3.29E-52	111.0892153
ARRDC3	-1.354514246	4.192621648	-16.24861908	1.10E-53	3.84E-52	110.9320479
ZNF204P	-1.465589625	1.642566278	-16.23587308	1.30E-53	4.54E-52	110.7631789
PGP	1.018996617	3.005627682	16.23264571	1.36E-53	4.74E-52	110.7204335

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
ACKR1	-2.873455968	2.871476514	-16.22954815	1.41E-53	4.93E-52	110.6794124
PTGER4	-1.175015256	1.752407079	-16.22336779	1.53E-53	5.35E-52	110.5975804
ACTG2	-2.998839024	2.711150034	-16.20383405	1.99E-53	6.90E-52	110.3390708
HCG11	-1.186477632	2.061715905	-16.19914058	2.12E-53	7.34E-52	110.2769867
NR2F6	1.072577265	4.559332808	16.19557585	2.22E-53	7.68E-52	110.229841
SLC12A8	1.015548516	2.230140278	16.19373994	2.27E-53	7.87E-52	110.2055625
FOS	-2.833618002	5.5623338	-16.1907797	2.36E-53	8.18E-52	110.1664193
CD200	-1.157203233	2.373628029	-16.18576678	2.53E-53	8.71E-52	110.1001438
MAD2L1	1.293885322	2.162618514	16.18358258	2.60E-53	8.96E-52	110.0712707
RHPN1	1.679572509	3.228896538	16.18041664	2.71E-53	9.34E-52	110.0294244
AC084357.1	-1.011302349	0.733448397	-16.16948515	3.14E-53	1.08E-51	109.8849754
CHPF	1.257564516	5.200034408	16.15754382	3.67E-53	1.26E-51	109.7272533
VLDLR	-1.284792447	1.643467593	-16.15608876	3.75E-53	1.28E-51	109.7080397
TUFT1	1.259898192	3.898072551	16.14424094	4.38E-53	1.50E-51	109.5516346
SPINT1	1.346179976	5.78839923	16.13979738	4.65E-53	1.59E-51	109.4929931
PRELP	-2.176582879	3.061549865	-16.13840907	4.73E-53	1.62E-51	109.4746738
ZCCHC24	-1.440608658	3.07019413	-16.1094163	6.95E-53	2.36E-51	109.0923306
CEBPA	-1.514651935	2.792710057	-16.1075491	7.12E-53	2.42E-51	109.0677219
PITX1	2.261859291	2.678868513	16.09622733	8.27E-53	2.81E-51	108.9185454
FBXL6	1.257430866	2.955040629	16.09374622	8.55E-53	2.90E-51	108.885863
PIK3R1	-1.539865142	3.713705281	-16.08086809	1.01E-52	3.43E-51	108.7162778
FOXO4	-1.004273929	3.016505071	-16.08037117	1.02E-52	3.45E-51	108.7097359
DUSP6	-1.572449555	3.61540777	-16.05252434	1.47E-52	4.96E-51	108.343339
HGH1	1.175282741	3.957248599	16.05138019	1.50E-52	5.04E-51	108.3282935

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
TLR4	-1.222744309	2.101690452	-16.02729809	2.06E-52	6.89E-51	108.0117727
FHOD3	-1.010758384	1.145338181	-16.0135863	2.46E-52	8.25E-51	107.8316889
PFKFB3	-1.731813669	4.38023466	-15.99709157	3.06E-52	1.02E-50	107.6151861
CACFD1	1.233206312	3.759563497	15.99669949	3.08E-52	1.03E-50	107.6100415
SHCBP1	1.234496388	1.65909974	15.9894662	3.39E-52	1.13E-50	107.515147
TSEN54	1.049518325	3.507679908	15.98694653	3.50E-52	1.17E-50	107.4820976
STXBP2	1.187443908	3.173750779	15.98658675	3.52E-52	1.17E-50	107.4773788
LAMA2	-1.633479554	2.078988023	-15.98082326	3.79E-52	1.26E-50	107.4017952
MCM2	1.405262882	3.606247832	15.97693844	3.99E-52	1.33E-50	107.3508587
BAX	1.005324915	3.979137341	15.96826124	4.48E-52	1.48E-50	107.2371149
MFAP2	1.794893582	3.558334382	15.96288941	4.81E-52	1.59E-50	107.1667188
TMEM9	1.025133101	5.157677932	15.95982345	5.00E-52	1.66E-50	107.1265473
NCALD	-1.661938632	2.057546009	-15.95083526	5.63E-52	1.86E-50	107.0088086
SLC25A39	1.019679106	5.333298828	15.95066772	5.64E-52	1.87E-50	107.0066143
USP53	-1.066764578	2.12488247	-15.94851327	5.81E-52	1.92E-50	106.9783991
DUSP1	-2.203479824	5.916851297	-15.93245794	7.17E-52	2.36E-50	106.7682118
MCM4	1.459050215	4.163564319	15.92280965	8.14E-52	2.67E-50	106.6419673
MIR568	-1.533606299	3.19249201	-15.92130487	8.30E-52	2.72E-50	106.6222822
NUDT16L1	1.109518307	4.129740014	15.91042841	9.58E-52	3.14E-50	106.4800352
CDCA3	1.304044594	1.631550346	15.90662804	1.01E-51	3.29E-50	106.4303472
SKA1	1.378880776	1.623993211	15.89412522	1.19E-51	3.87E-50	106.2669324
GPR34	-1.39423315	2.23288461	-15.88780642	1.29E-51	4.20E-50	106.1843757
PTGIS	-1.698731285	2.286876542	-15.88645174	1.31E-51	4.27E-50	106.1666792
KLF6	-1.273633106	4.934448836	-15.87788723	1.47E-51	4.77E-50	106.0548217

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
TRIP13	1.508221581	2.390437047	15.87380635	1.55E-51	5.03E-50	106.0015367
NGFR	-1.972355324	1.880535023	-15.86682331	1.70E-51	5.50E-50	105.9103779
CDC45	1.456404464	1.945364778	15.85654867	1.94E-51	6.29E-50	105.7762968
MIR27B	-1.051740696	0.530287729	-15.84820923	2.17E-51	7.00E-50	105.6675107
RCAN1	-1.763743399	3.069140396	-15.83263299	2.66E-51	8.57E-50	105.4644213
RHOA	-1.576037044	2.587906398	-15.83242418	2.66E-51	8.59E-50	105.4616996
NMRAL1	1.001734197	3.94511761	15.82049901	3.11E-51	1.00E-49	105.3063029
NVL	1.02393653	3.310357999	15.81657695	3.28E-51	1.05E-49	105.2552111
FAM110A	1.262525541	3.569006232	15.80948657	3.59E-51	1.15E-49	105.1628673
LAMA3	-1.864373016	1.992549897	-15.80822043	3.65E-51	1.17E-49	105.14638
PKDCC	-1.437978944	1.59599847	-15.79676152	4.25E-51	1.36E-49	104.9972057
GALE	1.237600344	3.20079399	15.7829917	5.08E-51	1.63E-49	104.8180401
BCL6	-1.187848894	3.476990581	-15.75241967	7.58E-51	2.41E-49	104.4206154
EIF3L	-1.118040608	5.163209996	-15.74947852	7.87E-51	2.50E-49	104.3824079
TMEM132A	1.7214685	3.51038565	15.74837223	7.99E-51	2.54E-49	104.3680377
GGCT	1.21977952	5.474234786	15.7035741	1.43E-50	4.53E-49	103.7866811
HOTAIRM1	-1.192792027	1.267239748	-15.69437499	1.61E-50	5.09E-49	103.6674354
RP11-58O9.2	-1.279307703	0.891189756	-15.6865881	1.79E-50	5.62E-49	103.5665316
YDJC	1.172071126	3.342943828	15.67849705	1.98E-50	6.24E-49	103.461721
PVRL2	1.227718271	5.779611121	15.67311387	2.13E-50	6.68E-49	103.3920073
CSRP1	-1.213647151	4.908686577	-15.66384768	2.40E-50	7.52E-49	103.2720443
LRP1	-1.599206221	4.203392438	-15.65836242	2.58E-50	8.06E-49	103.2010521
TMEM47	-1.675841669	2.79959627	-15.65543701	2.68E-50	8.36E-49	103.1631971
PTN	-2.684334561	3.171987177	-15.64818226	2.94E-50	9.18E-49	103.0693401

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
GPM6B	-1.492346504	1.762448616	-15.6288432	3.78E-50	1.18E-48	102.8192832
ESPL1	1.120000911	1.445490951	15.62858083	3.80E-50	1.18E-48	102.8158921
ALDH1A3	-1.545550792	1.84878387	-15.62256461	4.10E-50	1.27E-48	102.7381437
OLR1	1.590063343	2.587716811	15.61892589	4.30E-50	1.33E-48	102.6911295
TBC1D4	-1.203319913	2.995594125	-15.61725038	4.40E-50	1.36E-48	102.6694835
COBLL1	-1.021627947	1.718720615	-15.61434546	4.57E-50	1.42E-48	102.6319581
GPRC5B	-1.412006743	2.55525956	-15.61064153	4.79E-50	1.48E-48	102.5841178
JAM3	-1.114080371	2.491443131	-15.59588189	5.80E-50	1.79E-48	102.3935553
GRAMD3	-1.179756178	2.576633138	-15.59417137	5.93E-50	1.83E-48	102.3714783
GRASP	-1.116187076	1.676048078	-15.57972651	7.15E-50	2.20E-48	102.1851076
PIGR	-3.203053837	2.143032864	-15.5767234	7.44E-50	2.29E-48	102.146375
TEAD1	-1.125945557	2.90086579	-15.57233349	7.87E-50	2.42E-48	102.0897651
RP11-855A2.5	-1.161085784	0.77214662	-15.56073656	9.15E-50	2.81E-48	101.9402675
HSPE1	1.001005071	5.429693825	15.55343915	1.01E-49	3.08E-48	101.8462333
PRNP	-1.522837027	4.867597312	-15.54206886	1.16E-49	3.57E-48	101.6997735
FNDC4	-1.28337469	2.020402613	-15.52062823	1.54E-49	4.69E-48	101.4237902
ADD3	-1.45572357	3.291733255	-15.50925535	1.78E-49	5.42E-48	101.2775005
CENPA	1.517245441	1.871721399	15.50006113	2.00E-49	6.09E-48	101.1592867
TOMM40	1.013255655	4.080452752	15.49975451	2.01E-49	6.12E-48	101.1553451
BBOX1	-2.004467462	1.305136052	-15.48537061	2.42E-49	7.34E-48	100.9705005
HPRT1	1.015924879	4.517658579	15.4777749	2.67E-49	8.08E-48	100.8729352
LPCAT2	-1.051340675	1.985320085	-15.46888782	3.00E-49	9.06E-48	100.7588225
IL6	-1.591230777	0.983175034	-15.45375646	3.64E-49	1.10E-47	100.5646311
IGSF9	1.473462274	2.908746511	15.45138805	3.75E-49	1.13E-47	100.534247

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CSN1S1	-1.418043582	0.287374835	-15.44910761	3.87E-49	1.16E-47	100.5049943
SMS	1.010139086	5.673251648	15.44088719	4.30E-49	1.29E-47	100.3995694
C6	-1.053529017	0.478105114	-15.43285119	4.77E-49	1.43E-47	100.2965455
FADS3	-1.034795854	1.972745642	-15.40423119	6.89E-49	2.06E-47	99.92991699
ACAA2	-1.00822111	3.376756791	-15.40308701	6.99E-49	2.09E-47	99.91526924
HSPA12B	-1.180802382	2.02252998	-15.40170553	7.12E-49	2.13E-47	99.89758447
LMNB2	1.115917686	3.698576489	15.39718136	7.54E-49	2.26E-47	99.83967638
NAP1L2	-1.077275169	0.944549818	-15.39285293	7.98E-49	2.38E-47	99.78428418
SLIT2	-1.074518793	1.496134896	-15.39280819	7.98E-49	2.38E-47	99.78371175
PRSS8	1.779292736	5.817457683	15.39054517	8.22E-49	2.45E-47	99.75475532
RP11-413E6.1	-1.072518583	0.961531103	-15.38005093	9.40E-49	2.80E-47	99.62051384
SYNGR2	1.053305291	5.941250516	15.36981899	1.07E-48	3.18E-47	99.48968623
TYMS	1.494146049	3.238994014	15.36467577	1.15E-48	3.40E-47	99.4239457
ITGA9	-1.142201012	1.804694841	-15.35992525	1.22E-48	3.60E-47	99.36323774
PKP3	1.296305474	4.111295625	15.34517152	1.47E-48	4.34E-47	99.17477585
RP11-490M8.1	-1.299004317	2.067856142	-15.34176718	1.54E-48	4.53E-47	99.13130644
MAFF	-1.19231827	2.164167467	-15.33511226	1.67E-48	4.93E-47	99.04634935
RGS2	-2.054340541	3.598422098	-15.32559898	1.89E-48	5.55E-47	98.92494504
P4HA3	1.176334852	1.573962606	15.32515108	1.90E-48	5.58E-47	98.9192303
DEPDC1B	1.034752099	1.237755134	15.31438012	2.18E-48	6.40E-47	98.78183908
KRT18	1.971447305	7.517163442	15.2987257	2.67E-48	7.82E-47	98.58227058
SKAP2	-1.138506132	2.657445898	-15.29677368	2.74E-48	8.00E-47	98.55739491
PRKAR2B	-1.851433675	3.591650426	-15.28684698	3.11E-48	9.07E-47	98.43092675
MYCBP2	-1.079534692	2.578917192	-15.24806742	5.10E-48	1.48E-46	97.93739222

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CPM	-1.400282559	2.240832572	-15.24093723	5.58E-48	1.62E-46	97.84673968
ARHGAP11A	1.211450253	1.900739543	15.23176315	6.28E-48	1.82E-46	97.73014315
EVPL	1.262581744	2.823814259	15.22070705	7.23E-48	2.09E-46	97.58968969
NAT14	1.313480697	3.148564643	15.21630356	7.65E-48	2.21E-46	97.53376802
ROGDI	1.23115336	3.50018928	15.18769572	1.10E-47	3.17E-46	97.1707297
GINS2	1.40543167	2.562910398	15.18203671	1.18E-47	3.41E-46	97.09897016
KIRREL	-1.323528818	2.831528405	-15.18127173	1.20E-47	3.44E-46	97.08927111
DPYD	-1.180846836	2.27663714	-15.16816021	1.41E-47	4.06E-46	96.9230839
ATF3	-1.996349184	3.11713104	-15.15728508	1.62E-47	4.65E-46	96.7853157
KRT19	2.344273579	8.84508662	15.15639857	1.64E-47	4.70E-46	96.77408817
REEP4	1.096409512	3.580341154	15.15288905	1.72E-47	4.91E-46	96.72964482
RP11-417E7.2	1.743737139	2.074580911	15.14593772	1.87E-47	5.36E-46	96.64163606
SGOL1	1.048261211	1.198173358	15.12998115	2.30E-47	6.56E-46	96.43971704
DES	-1.846017679	0.915233481	-15.10751166	3.05E-47	8.69E-46	96.15562434
SGK1	-1.265139691	2.660372405	-15.09493274	3.58E-47	1.02E-45	95.996707
CHST3	-1.390776287	2.139345886	-15.09192816	3.72E-47	1.06E-45	95.95876153
RP11-553L6.5	-1.183631617	3.434107947	-15.08769607	3.93E-47	1.11E-45	95.90532214
RAD51AP1	1.344541487	2.23295009	15.08672418	3.98E-47	1.13E-45	95.89305132
DBNDD1	1.410650039	3.028890172	15.08601529	4.01E-47	1.14E-45	95.88410136
COL1A1	2.344559218	8.74961256	15.0833825	4.15E-47	1.17E-45	95.85086425
PYROXD2	-1.072106132	1.807794498	-15.08103506	4.27E-47	1.21E-45	95.82123275
YAP1	-1.159859309	4.111887377	-15.07883323	4.39E-47	1.24E-45	95.79344197
SEPP1	-1.783340412	4.020550144	-15.0771029	4.49E-47	1.27E-45	95.77160436
PDGFRA	-1.444157001	2.443756901	-15.04400747	6.83E-47	1.92E-45	95.35424863

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CLDN8	-2.146549739	1.92601935	-15.04382656	6.85E-47	1.92E-45	95.35196891
ANGPTL4	-2.088390234	2.537607648	-14.99591179	1.25E-46	3.51E-45	94.74883436
CLDN7	1.462595399	5.210873438	14.99433503	1.28E-46	3.57E-45	94.72900881
NMB	-1.492054762	2.447665726	-14.97396756	1.66E-46	4.61E-45	94.4730429
SIRPA	-1.259016722	3.549465616	-14.96105711	1.95E-46	5.40E-45	94.31091451
SELP	-1.577649124	1.576686208	-14.95262115	2.17E-46	6.00E-45	94.20502754
PSRC1	1.10378301	2.121510429	14.94812089	2.29E-46	6.35E-45	94.14855753
DCN	-2.122933224	5.302605111	-14.94629851	2.35E-46	6.49E-45	94.12569336
STXBP1	-1.084533956	2.332836862	-14.92460957	3.08E-46	8.49E-45	93.85372123
HRASLS5	-2.060800836	1.741580946	-14.92095304	3.23E-46	8.88E-45	93.80789606
ARHGEF6	-1.444658059	3.177387727	-14.91673449	3.41E-46	9.36E-45	93.7550369
PLAUR	1.325517383	2.97732858	14.9094131	3.73E-46	1.02E-44	93.66332259
SDC1	1.962989773	6.279124097	14.90634933	3.88E-46	1.06E-44	93.62495222
MYEOV	-1.646531021	0.901379948	-14.90264781	4.07E-46	1.11E-44	93.57860178
SASH1	-1.355186386	2.860182726	-14.89813676	4.30E-46	1.18E-44	93.52212501
CDT1	1.446929324	2.271902985	14.89479732	4.49E-46	1.23E-44	93.48032401
CENPE	1.093259399	1.443801559	14.89306965	4.59E-46	1.25E-44	93.45870061
HAGHL	1.280995781	1.501653261	14.88843309	4.86E-46	1.32E-44	93.40067805
TIE1	-1.027352116	2.273743167	-14.88414371	5.13E-46	1.40E-44	93.34701116
KIF15	1.113762051	1.519287909	14.8783626	5.52E-46	1.50E-44	93.27469702
OLFML2A	-1.111240788	2.890912516	-14.87270774	5.93E-46	1.61E-44	93.20398068
ANKRD35	-1.072708501	0.963165416	-14.85703808	7.21E-46	1.96E-44	93.00812086
HSD17B11	-1.237176569	3.194273773	-14.8556615	7.34E-46	1.99E-44	92.99092123
TCF7L2	-1.108395621	2.84621372	-14.8548019	7.42E-46	2.01E-44	92.98018162

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
IRS2	-1.503407118	2.298437289	-14.8454835	8.34E-46	2.25E-44	92.86378686
IL17RD	-1.326900077	2.006323347	-14.83936133	9.01E-46	2.43E-44	92.78734287
HOXA9	-1.23825217	0.845752715	-14.83036031	1.01E-45	2.72E-44	92.67499135
MEST	-1.640906264	3.306940665	-14.825685	1.07E-45	2.88E-44	92.61665214
CTD-3252C9.4	-1.477295106	2.703975011	-14.82352942	1.10E-45	2.96E-44	92.58975876
PCYOX1	-1.0014976	4.6343011	-14.8218774	1.12E-45	3.02E-44	92.56914964
MID1	-1.205179363	1.190887026	-14.82046965	1.14E-45	3.07E-44	92.55158916
MYL9	-1.569596276	6.236171655	-14.81023209	1.30E-45	3.48E-44	92.42391789
PPP1R15A	-1.150081002	4.175337771	-14.8086736	1.32E-45	3.55E-44	92.40448748
CERS2	1.154622738	5.996076151	14.80343278	1.41E-45	3.79E-44	92.33915805
TTK	1.373466455	1.83525097	14.79560593	1.56E-45	4.17E-44	92.24162184
TONSL	1.130577808	1.937004729	14.78772668	1.72E-45	4.60E-44	92.14346827
PPP1R14B	1.290025196	5.186326818	14.7629984	2.34E-45	6.26E-44	91.83565524
TJP3	1.523571578	3.595624984	14.76201799	2.37E-45	6.33E-44	91.82345856
IFFO2	-1.263567668	2.370165324	-14.76071734	2.41E-45	6.43E-44	91.80727884
SAPCD2	1.386354619	2.401018331	14.75950315	2.45E-45	6.53E-44	91.79217549
CLEC14A	-1.21242612	3.20674232	-14.75583274	2.56E-45	6.83E-44	91.74652439
MAFG-AS1	1.11149523	2.246458253	14.74161978	3.06E-45	8.13E-44	91.56982278
KLF10	-1.03883965	4.332599599	-14.73914025	3.16E-45	8.38E-44	91.53900822
NMNAT2	-1.041305162	0.585804308	-14.72722217	3.66E-45	9.70E-44	91.39094482
VIM	-1.351661388	7.406899844	-14.67018166	7.46E-45	1.96E-43	90.68344612
PPL	-1.340664503	3.272023276	-14.66929099	7.54E-45	1.98E-43	90.67241376
CCDC8	-1.646389302	2.330659332	-14.65836656	8.64E-45	2.26E-43	90.53713459
CDC6	1.561518902	2.220579766	14.64829003	9.79E-45	2.56E-43	90.41241668

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
IRF7	1.493219405	3.773556083	14.63777601	1.12E-44	2.91E-43	90.28234704
CILP2	1.504878755	1.837955423	14.63109663	1.21E-44	3.15E-43	90.19974944
SEMA6A	-1.175929928	1.413985622	-14.61876309	1.41E-44	3.67E-43	90.04730049
FAM64A	1.264490476	1.563479949	14.59617271	1.87E-44	4.84E-43	89.76830221
RAD54L	1.144491703	1.480293393	14.59347026	1.93E-44	5.00E-43	89.73494611
CACNB3	1.019981672	2.694004854	14.59263191	1.95E-44	5.05E-43	89.72459928
EMILIN2	-1.052736906	1.763165402	-14.58776224	2.08E-44	5.35E-43	89.66450644
SEPHS2	1.053610919	5.692298616	14.56426348	2.78E-44	7.13E-43	89.37472171
ADAM8	1.353674555	2.236567965	14.560568	2.91E-44	7.46E-43	89.32917875
MGAT3	-1.082596044	0.962365288	-14.55783434	3.01E-44	7.71E-43	89.29549447
MISP	2.276552865	3.204476543	14.55325721	3.18E-44	8.15E-43	89.23910459
OLFML1	-1.121119143	2.176464278	-14.54404219	3.57E-44	9.11E-43	89.12561353
CAB39L	-1.203145753	2.912275779	-14.52575294	4.47E-44	1.14E-42	88.90051308
MRPS12	1.003140802	3.782811873	14.50633397	5.69E-44	1.45E-42	88.66172343
LAMP5	1.803472436	2.54142058	14.5035386	5.89E-44	1.50E-42	88.6273678
KCTD14	-1.428006238	1.156251968	-14.47950302	7.92E-44	2.01E-42	88.33215606
DEPDC1	1.224577107	1.436131259	14.46975909	8.93E-44	2.26E-42	88.21257525
CKAP2	1.052963816	3.037567789	14.46517974	9.45E-44	2.39E-42	88.15639533
ATAD2	1.447201447	3.372947444	14.45487725	1.07E-43	2.71E-42	88.03004865
STMN1	1.429340518	4.743589782	14.44754609	1.17E-43	2.96E-42	87.94017961
CYB561	1.152348324	5.094239621	14.43717405	1.33E-43	3.36E-42	87.81308832
PGM1	-1.059353287	4.059640718	-14.42986203	1.46E-43	3.67E-42	87.72353036
RND3	-1.559808655	3.589981988	-14.40937408	1.88E-43	4.71E-42	87.47276188
EPN3	1.561798951	3.03785182	14.39551804	2.23E-43	5.58E-42	87.30330758

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
KIF26B	1.164733429	1.531018418	14.38134547	2.65E-43	6.63E-42	87.13010016
LRRC59	1.084476304	5.289095067	14.37346506	2.92E-43	7.29E-42	87.03384278
APCDD1L	-1.388241165	0.958525217	-14.37116889	3.00E-43	7.50E-42	87.00580261
EPHA2	-1.067863256	2.25123162	-14.36485448	3.25E-43	8.09E-42	86.9287088
CLIC2	-1.096854825	2.361526433	-14.36282603	3.33E-43	8.29E-42	86.90394812
IER5L	1.248377885	2.677614459	14.3567498	3.59E-43	8.92E-42	86.82979199
CFI	-1.276532341	2.294087116	-14.35330515	3.74E-43	9.30E-42	86.78776227
PROL1	-2.074506586	0.824481617	-14.32664124	5.19E-43	1.29E-41	86.46266261
ACTA2	-1.687480289	6.427261019	-14.31690542	5.84E-43	1.45E-41	86.3440643
SLC16A3	1.349994463	2.232210749	14.3142944	6.03E-43	1.49E-41	86.31226729
CCL21	-2.750352645	2.896338136	-14.30907052	6.43E-43	1.59E-41	86.24866337
ISG15	2.551718549	5.736400158	14.30147007	7.06E-43	1.75E-41	86.15615219
TMEM54	1.127592846	5.010396289	14.24886439	1.34E-42	3.30E-41	85.51679324
SOSTDC1	-1.885874811	1.185092409	-14.21503877	2.03E-42	4.96E-41	85.10655942
ECHDC1	-1.091338985	2.85285744	-14.21197057	2.10E-42	5.14E-41	85.06938261
BRINP1	-1.148074175	0.642735157	-14.20638846	2.25E-42	5.50E-41	85.00175971
KIF14	1.086739792	1.20037364	14.19502144	2.59E-42	6.31E-41	84.86411511
A2M	-1.404301166	6.60612516	-14.18477383	2.93E-42	7.13E-41	84.74009208
SEMA5A	-1.295513405	2.005585919	-14.18402848	2.96E-42	7.19E-41	84.73107389
NEDD9	-1.302135554	2.654926968	-14.18135481	3.05E-42	7.42E-41	84.69872705
CD248	-1.415135794	4.172072045	-14.18123291	3.06E-42	7.43E-41	84.69725242
PRR36	1.545414414	2.85906446	14.16733588	3.62E-42	8.78E-41	84.52919264
MAL2	1.48373418	6.164846734	14.1525767	4.33E-42	1.05E-40	84.35083432
ECHDC3	-1.244155615	3.196826443	-14.14647748	4.66E-42	1.13E-40	84.27716614

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
RASSF7	1.372250277	3.446115422	14.09721515	8.48E-42	2.03E-40	83.68298648
DPP4	-1.172453796	1.532793218	-14.09564963	8.64E-42	2.07E-40	83.66412791
LAMA4	-1.176719021	3.258665295	-14.09489236	8.72E-42	2.09E-40	83.65500625
MBNL2	-1.17482339	3.882809247	-14.08949071	9.31E-42	2.23E-40	83.58995097
FAM102A	1.067616874	4.94014285	14.08647768	9.65E-42	2.31E-40	83.55367101
STRA13	1.201887691	4.588921988	14.08327059	1.00E-41	2.40E-40	83.51506038
ACSL4	-1.161320222	2.690174259	-14.07962191	1.05E-41	2.51E-40	83.47114098
JUN	-1.522491982	5.743896098	-14.06663368	1.23E-41	2.93E-40	83.31486623
MDFIC	-1.003669262	2.89893581	-14.06301375	1.28E-41	3.06E-40	83.27132946
SMIM3	-1.092013446	3.32298761	-14.04923195	1.51E-41	3.60E-40	83.10564885
PRG4	-1.446651715	0.911273429	-14.03103539	1.89E-41	4.47E-40	82.88707231
AVPI1	-1.002234911	2.885249517	-13.99927895	2.77E-41	6.54E-40	82.50609797
MRC1	-1.436732689	1.524263234	-13.99635693	2.87E-41	6.76E-40	82.4710741
LPHN2	-1.272480609	2.328373633	-13.98572109	3.26E-41	7.67E-40	82.34363499
PSME2	1.061272789	5.115086801	13.96890241	3.99E-41	9.36E-40	82.14225382
GRHL2	1.057412861	3.949185918	13.96053705	4.41E-41	1.03E-39	82.04215415
EGR3	-1.951956233	2.351105947	-13.95929365	4.48E-41	1.05E-39	82.02727936
KDR	-1.044819727	2.922739653	-13.94185371	5.52E-41	1.29E-39	81.81874466
ABHD11	1.170561092	4.464225131	13.90356628	8.75E-41	2.03E-39	81.36158419
CCND2	-1.087289063	2.557136041	-13.90063266	9.06E-41	2.10E-39	81.32659316
GIMAP7	-1.462186261	3.203577764	-13.89933232	9.20E-41	2.13E-39	81.31108499
ZFP36L2	-1.316049855	5.768771858	-13.89271585	9.96E-41	2.30E-39	81.23219125
RBPM5	-1.002946401	1.438733187	-13.86992114	1.31E-40	3.01E-39	80.96059694
TPPP	-1.13636816	1.28351711	-13.85695806	1.53E-40	3.50E-39	80.80628706

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
BIN1	-1.110587127	1.880491435	-13.84625344	1.74E-40	3.98E-39	80.6789396
SDF2L1	1.215400986	3.988773453	13.84231901	1.82E-40	4.16E-39	80.63215142
MTL5	1.319680178	2.5225497	13.84110179	1.85E-40	4.22E-39	80.61767815
CYGB	-1.163995924	2.489103064	-13.83202809	2.06E-40	4.69E-39	80.50981715
MND1	1.167613278	1.577116987	13.82794974	2.16E-40	4.92E-39	80.46135337
CANT1	1.109840732	5.064177487	13.82612126	2.21E-40	5.02E-39	80.43962863
F12	1.28064179	1.719193796	13.80300342	2.91E-40	6.61E-39	80.1651359
GPRC5A	1.984621073	4.728163866	13.80250575	2.93E-40	6.64E-39	80.15923044
STAC2	-2.965260695	2.165824641	-13.79696315	3.13E-40	7.09E-39	80.09347041
TMEM79	1.088527158	3.103047405	13.79414074	3.24E-40	7.33E-39	80.05999133
CREB3L4	1.541908577	5.136642598	13.79105342	3.36E-40	7.60E-39	80.02337562
CALB2	-2.230396092	2.236036616	-13.78691153	3.53E-40	7.97E-39	79.97426193
MMP13	2.348769242	2.310955249	13.77996179	3.83E-40	8.65E-39	79.89187703
GPR68	1.059277997	2.102609638	13.76600226	4.53E-40	1.02E-38	79.72648599
FAM3D	-1.563098535	0.779785706	-13.75041915	5.45E-40	1.22E-38	79.54200181
WLS	-1.624409227	3.3504745	-13.72959972	6.98E-40	1.56E-38	79.29576135
HMGA1	1.330644985	5.583915551	13.72514501	7.36E-40	1.65E-38	79.24310856
SLC13A2	-1.548883279	0.965124827	-13.70837866	8.98E-40	2.00E-38	79.04504807
B4GALNT4	1.427046039	2.888284038	13.68814391	1.14E-39	2.54E-38	78.80624853
SMIM22	2.035317141	4.226993322	13.66851464	1.44E-39	3.20E-38	78.57483839
NRP1	-1.038050081	3.245804653	-13.65636833	1.66E-39	3.68E-38	78.43176568
RASL12	-1.070275335	1.995415798	-13.65539434	1.68E-39	3.73E-38	78.42029688
SAC3D1	1.028676715	2.927308397	13.654696	1.70E-39	3.75E-38	78.41207433
PC	-1.142958103	2.889951672	-13.64706326	1.86E-39	4.10E-38	78.32222245

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
HES6	1.415635688	2.015103328	13.62414618	2.44E-39	5.36E-38	78.05266408
ACADS	-1.279492948	2.863044998	-13.61141882	2.83E-39	6.21E-38	77.90310258
EPS8	-1.06885293	3.270954206	-13.59040041	3.63E-39	7.92E-38	77.6563338
LAMB3	-2.083514608	3.339237062	-13.5892656	3.68E-39	8.02E-38	77.64301833
TTYH3	1.071127306	4.017374258	13.57846374	4.18E-39	9.10E-38	77.51631354
RP11-211G23.2	-1.242892608	0.561598174	-13.57684542	4.26E-39	9.28E-38	77.49733711
CXCL10	2.495672073	4.23366841	13.56836484	4.71E-39	1.02E-37	77.39792067
SERINC2	1.456322521	5.474644817	13.55922166	5.24E-39	1.14E-37	77.29078738
HIST1H4I	1.429297428	3.32502552	13.54915129	5.90E-39	1.28E-37	77.17285068
PPP1R14BP3	1.23384008	4.449513228	13.54518799	6.18E-39	1.34E-37	77.12645307
TMEM125	1.148681755	3.498244915	13.53872975	6.67E-39	1.44E-37	77.05086871
ADM2	1.151579895	1.930545926	13.53742326	6.77E-39	1.46E-37	77.03558131
SNCG	-2.335611649	3.426933844	-13.53453774	7.01E-39	1.51E-37	77.00182129
LINC01235	-1.29522551	1.166145244	-13.51995785	8.32E-39	1.79E-37	76.83131984
C7	-1.999116917	1.758644558	-13.5049774	9.92E-39	2.13E-37	76.65627383
RRAGD	-1.115001142	1.895370312	-13.49761139	1.08E-38	2.31E-37	76.57025418
IRX1	-2.081481984	1.787681182	-13.48702418	1.22E-38	2.61E-37	76.4466777
ALPL	-1.607195745	2.584745126	-13.47063978	1.48E-38	3.15E-37	76.25557464
RAB26	1.449725653	1.912439489	13.45524603	1.78E-38	3.77E-37	76.07618109
TYMP	1.492048735	4.573356989	13.44442044	2.02E-38	4.28E-37	75.95011318
C1QTNF1	-1.272845255	2.71345258	-13.44193096	2.08E-38	4.40E-37	75.92113277
RP11-536O18.1	-1.144370616	0.93655011	-13.43765636	2.18E-38	4.63E-37	75.87138073
LAMC1	-1.140549717	4.765761629	-13.41197117	2.95E-38	6.22E-37	75.57267491
GAS1	-1.491966038	3.230225827	-13.40575504	3.17E-38	6.67E-37	75.50044736

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
HIST1H2BK	1.669983774	5.958765925	13.40517809	3.19E-38	6.72E-37	75.49374488
FAM195A	1.062445958	2.548743473	13.39533309	3.58E-38	7.52E-37	75.37940605
IDH2	1.178994252	6.078188306	13.38266146	4.15E-38	8.70E-37	75.23232975
SLC9A3R1	1.680906715	6.76711769	13.37216543	4.70E-38	9.81E-37	75.11058245
COL14A1	-1.984143207	3.279047148	-13.34897946	6.15E-38	1.28E-36	74.84188869
BCAS4	1.196246116	2.117278562	13.34683502	6.31E-38	1.31E-36	74.81705488
APOD	-3.14421862	5.92023395	-13.33050709	7.63E-38	1.58E-36	74.62806465
C19orf48	1.031466127	4.004571213	13.32932588	7.73E-38	1.60E-36	74.61439908
EXOSC4	1.166782053	3.990733029	13.31914249	8.71E-38	1.80E-36	74.4966237
GNG7	-1.056703081	1.796886527	-13.29647664	1.13E-37	2.34E-36	74.23472099
PLTP	-1.385653859	4.596160977	-13.29422907	1.16E-37	2.39E-36	74.20876843
ABRACL	1.198553741	4.853871652	13.28675251	1.27E-37	2.61E-36	74.12246001
MAP1B	-1.219648178	2.434430533	-13.27902965	1.39E-37	2.85E-36	74.03334606
RPS6KA3	-1.006169896	2.400948754	-13.2714597	1.51E-37	3.11E-36	73.94603356
MCM10	1.208480809	1.491154318	13.27068765	1.53E-37	3.13E-36	73.93713075
TMEM141	1.046371737	5.178224759	13.26350126	1.66E-37	3.40E-36	73.85427982
C1orf233	1.268063088	2.975315986	13.25448553	1.84E-37	3.76E-36	73.75038545
PDZRN3	-1.165456463	2.439173122	-13.25398785	1.85E-37	3.79E-36	73.74465188
LGR4	-1.328914601	2.43625751	-13.24743528	2.00E-37	4.08E-36	73.6691771
ANKRD65	-1.113201598	1.711354358	-13.24018993	2.18E-37	4.43E-36	73.58575476
COX6C	2.00345498	6.675463145	13.23843927	2.22E-37	4.51E-36	73.56560281
MICAL2	1.042558665	2.706487854	13.22923505	2.47E-37	5.01E-36	73.45968522
RGMA	-1.124064241	1.060010134	-13.15593266	5.76E-37	1.15E-35	72.61810433
S100A14	2.492536648	6.527262832	13.14484319	6.55E-37	1.31E-35	72.49108862

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
TIPARP	-1.048562443	3.110728916	-13.14126212	6.82E-37	1.36E-35	72.45008896
IFI6	2.36651486	7.586902669	13.09662615	1.14E-36	2.27E-35	71.93974931
NOV	-1.284150921	1.869170537	-13.08333137	1.33E-36	2.63E-35	71.78799473
KCNJ8	-1.07767521	2.294061987	-13.06548278	1.63E-36	3.22E-35	71.58444072
MFSD3	1.234428525	3.787085499	13.05834572	1.77E-36	3.49E-35	71.50310404
ALYREF	1.04854723	5.081732122	13.04962835	1.95E-36	3.85E-35	71.40380261
NES	-1.375979856	3.744613471	-13.04626557	2.03E-36	3.99E-35	71.36550973
LDHD	-1.281602758	1.787287048	-13.04210926	2.13E-36	4.18E-35	71.31819079
MIF	1.44693597	4.792645436	13.03514414	2.31E-36	4.53E-35	71.23891919
PTGS2	-1.2246988	0.768210261	-13.03481129	2.32E-36	4.54E-35	71.23513182
TUBB6	-1.205132896	3.733360595	-13.01579425	2.88E-36	5.63E-35	71.01885975
CNIH2	1.169131516	1.391603031	13.0058632	3.22E-36	6.29E-35	70.90601216
PDE8B	-1.005742445	1.239055972	-12.99866569	3.50E-36	6.82E-35	70.82426635
MATN3	1.69170256	2.648372181	12.99449644	3.67E-36	7.13E-35	70.77692942
SERPING1	-1.345165881	6.170332914	-12.99162956	3.79E-36	7.37E-35	70.74438605
LRRC45	1.054131418	2.934302271	12.99050953	3.84E-36	7.46E-35	70.73167346
FOLR2	-1.529778768	2.712138636	-12.97910998	4.38E-36	8.48E-35	70.60233283
RASD1	-1.944333837	3.248220371	-12.97183637	4.76E-36	9.20E-35	70.51984995
SLC39A11	1.137260588	3.957921205	12.95430658	5.81E-36	1.12E-34	70.32120405
EDN1	-1.527464586	2.486895348	-12.94581484	6.40E-36	1.23E-34	70.22504884
PRR11	1.354823118	2.079691889	12.93901057	6.91E-36	1.33E-34	70.1480355
STARD10	1.773354255	5.224618458	12.93490525	7.24E-36	1.39E-34	70.10158456
CHTF18	1.021886394	2.011116524	12.93475568	7.26E-36	1.39E-34	70.09989246
CPXM2	-1.371453892	2.685116552	-12.93041776	7.62E-36	1.46E-34	70.05082217

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
HIST1H3H	2.004939172	2.367830305	12.90407315	1.03E-35	1.96E-34	69.75307861
ABHD17C	1.065624761	3.097628827	12.90292481	1.04E-35	1.99E-34	69.74011055
ETV5	-1.007796257	2.121797072	-12.89650478	1.12E-35	2.14E-34	69.66762616
PXDC1	-1.17729344	3.559997948	-12.89633905	1.12E-35	2.14E-34	69.66575536
CRTAC1	-1.080195266	0.700044829	-12.89570214	1.13E-35	2.15E-34	69.65856588
PHLDB2	-1.023408674	1.836913349	-12.89290299	1.17E-35	2.22E-34	69.62697244
CTSG	-1.271979208	1.080620291	-12.88929666	1.22E-35	2.31E-34	69.58627605
RP4-631H13.6	-1.261998723	1.682508809	-12.88793014	1.24E-35	2.35E-34	69.5708575
ABLIM3	-1.477327021	2.371695747	-12.87961217	1.36E-35	2.58E-34	69.47703175
TAGLN	-1.540786497	6.061289882	-12.87853846	1.37E-35	2.61E-34	69.4649237
CDCA2	1.137937405	1.46326853	12.87276215	1.47E-35	2.78E-34	69.39979851
DOC2B	-1.145110625	1.420979578	-12.87038638	1.51E-35	2.85E-34	69.37301909
KLF2	-1.378618742	3.815527799	-12.86947378	1.52E-35	2.88E-34	69.36273345
ACKR3	-1.387318894	3.621769194	-12.85856432	1.72E-35	3.26E-34	69.23981778
S100P	3.016230423	3.62658549	12.85746696	1.75E-35	3.30E-34	69.22745827
TRAF4	1.04332521	4.262793345	12.82955751	2.39E-35	4.50E-34	68.91338279
SOCS2	-1.280836091	1.662082031	-12.81502935	2.82E-35	5.29E-34	68.75009535
PTK6	1.378470409	2.688688405	12.80758978	3.07E-35	5.75E-34	68.66653314
TRIM2	-1.344876713	2.154249524	-12.76908272	4.74E-35	8.82E-34	68.23460217
NR4A1	-1.736607701	2.845110975	-12.76541777	4.94E-35	9.18E-34	68.19354387
N4BP3	1.181461221	2.552576445	12.7634558	5.05E-35	9.38E-34	68.17156763
CFH	-1.184982519	2.72671538	-12.74748577	6.05E-35	1.12E-33	67.99278053
CYR61	-1.694779821	5.951390503	-12.74154448	6.46E-35	1.20E-33	67.92631001
GSPT2	-1.089925954	1.823335666	-12.72866593	7.47E-35	1.38E-33	67.78230667

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
FGFBP1	-1.373518885	0.618868709	-12.71266838	8.95E-35	1.65E-33	67.6035811
CAMSAP3	1.022263229	3.088085008	12.7043069	9.83E-35	1.81E-33	67.5102338
GSTM2	-1.083547087	1.42780899	-12.69578874	1.08E-34	1.99E-33	67.41518525
ERBB3	1.31854637	5.280937334	12.68018765	1.29E-34	2.36E-33	67.24122808
COL5A1	1.651070004	4.990025472	12.66056251	1.61E-34	2.93E-33	67.02263183
CCDC80	-1.654654928	3.841984969	-12.60947856	2.84E-34	5.13E-33	66.45483452
OGFRL1	-1.147766267	3.269955205	-12.60866346	2.87E-34	5.18E-33	66.44578892
C1orf115	-1.503348381	3.701007596	-12.59887898	3.20E-34	5.77E-33	66.33723903
ADM	-1.475626037	2.104855368	-12.59183358	3.46E-34	6.23E-33	66.25911645
MT1L	-1.436962141	1.974838782	-12.5861665	3.69E-34	6.63E-33	66.19630139
AC093668.2	-1.046885009	1.598695522	-12.57764818	4.05E-34	7.29E-33	66.10192324
CTD-2510F5.4	1.497272733	2.423463949	12.57250249	4.29E-34	7.70E-33	66.04493536
DHRS3	-1.066431238	3.989460119	-12.57084094	4.37E-34	7.84E-33	66.02653773
RP11-196G18.22	1.035686525	2.035234469	12.54542182	5.80E-34	1.04E-32	65.74531368
AC005152.3	-2.050830183	1.289219857	-12.53999531	6.17E-34	1.10E-32	65.6853337
FMNL2	-1.063546893	2.519645929	-12.53300243	6.66E-34	1.19E-32	65.60806965
FAM173A	1.164891097	2.72817209	12.51906464	7.78E-34	1.38E-32	65.45416982
SIX4	1.001029163	1.972131462	12.50438747	9.16E-34	1.62E-32	65.29224708
SCT	1.062782438	1.12597666	12.49592753	1.01E-33	1.78E-32	65.19898042
IL4I1	1.35959588	1.977927182	12.49019366	1.07E-33	1.89E-32	65.13579492
PELI1	-1.022633649	2.994179217	-12.44810353	1.71E-33	2.99E-32	64.6726529
SYNE4	1.096895695	2.921641097	12.44566408	1.76E-33	3.07E-32	64.64584695
KRT14	-3.384234267	4.08084505	-12.43377531	2.00E-33	3.50E-32	64.51526438
KIFC2	1.213248875	2.305327093	12.42224271	2.27E-33	3.97E-32	64.38868523

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
ANXA3	-1.517305793	2.328596535	-12.40489047	2.75E-33	4.79E-32	64.1984008
FILIP1L	-1.132474894	2.859920264	-12.38561181	3.41E-33	5.92E-32	63.98723054
ADRA2A	-1.469212374	2.533658584	-12.37195617	3.96E-33	6.86E-32	63.83780517
C9orf116	1.198759621	2.245821296	12.35651779	4.69E-33	8.11E-32	63.66902477
HIST1H3D	1.622010368	1.971713634	12.3455047	5.30E-33	9.14E-32	63.54872299
BHLHE41	-1.356211614	3.433475932	-12.32078134	6.95E-33	1.19E-31	63.2789574
DMTN	-1.187919254	2.411026243	-12.32025955	6.99E-33	1.20E-31	63.27326845
SLC2A1	1.211996541	4.271453061	12.29327281	9.40E-33	1.61E-31	62.97929136
RNF145	-1.093981489	3.276849302	-12.29294933	9.43E-33	1.61E-31	62.97577051
CST1	2.532814804	2.464709503	12.28387016	1.04E-32	1.78E-31	62.87698126
CYP39A1	-1.03068036	0.966584605	-12.28372682	1.04E-32	1.78E-31	62.87542205
HOXC13	1.49217716	2.031750573	12.26881887	1.23E-32	2.09E-31	62.71333428
TMEM97	1.161229793	3.524906759	12.24884982	1.53E-32	2.60E-31	62.49645733
CAPN6	-1.744653501	1.191602703	-12.24171342	1.65E-32	2.81E-31	62.41901743
ADCY5	-1.341185293	1.332264036	-12.22435672	2.00E-32	3.38E-31	62.2308189
TRIM29	-1.930576003	2.064753905	-12.19908662	2.63E-32	4.44E-31	61.95718444
SRMS	1.219367293	1.895437616	12.16821344	3.68E-32	6.17E-31	61.62347288
TNFRSF18	1.508549992	2.301559481	12.15631205	4.19E-32	7.01E-31	61.4950044
TMEM238	1.179874682	2.233889615	12.15400982	4.29E-32	7.18E-31	61.47016443
SIAH2	1.285270362	5.002387556	12.1470892	4.63E-32	7.73E-31	61.3955162
TSTD1	1.12721376	5.608550039	12.11179085	6.79E-32	1.13E-30	61.01528949
MFGE8	-1.489984689	4.249517962	-12.10960224	6.95E-32	1.15E-30	60.99174253
KRT5	-3.166283158	3.875178686	-12.09517152	8.13E-32	1.35E-30	60.836567
CITED1	-1.601389785	1.194934062	-12.09063931	8.54E-32	1.41E-30	60.78786121

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
C9orf142	1.032604117	4.234312185	12.06682273	1.10E-31	1.82E-30	60.53214764
TM4SF18	-1.242277078	2.523246284	-11.97799703	2.88E-31	4.68E-30	59.58191135
CREB3L1	1.584210158	3.708106891	11.96627157	3.26E-31	5.30E-30	59.45688466
LEF1	1.174467012	2.213978024	11.96597603	3.27E-31	5.31E-30	59.45373457
NT5E	-1.028235855	2.279882574	-11.96486299	3.31E-31	5.37E-30	59.4418716
LIMCH1	-1.197171005	2.886486987	-11.96288173	3.38E-31	5.49E-30	59.42075717
MIR4653	1.232419904	1.801062722	11.95555159	3.66E-31	5.93E-30	59.34266302
PARM1	-1.274629283	2.745460587	-11.94879637	3.93E-31	6.37E-30	59.27072705
LOXL1	1.188332918	3.773607173	11.94307748	4.18E-31	6.76E-30	59.20985181
SCRN2	-1.017575043	3.23826723	-11.93307689	4.66E-31	7.52E-30	59.10345437
BIK	1.384059857	3.493314926	11.9099473	5.96E-31	9.61E-30	58.85764349
FZD7	-1.283599683	3.626413887	-11.90474841	6.30E-31	1.02E-29	58.80244342
FSTL1	-1.254568592	5.267797134	-11.89477182	7.01E-31	1.13E-29	58.69656825
POSTN	1.858898181	7.087649302	11.88350492	7.91E-31	1.27E-29	58.57708349
PI15	-2.136080577	1.647777609	-11.84812232	1.15E-30	1.84E-29	58.20243115
SYNDIG1	1.175963213	1.50669054	11.84426025	1.20E-30	1.91E-29	58.16159024
AC009005.2	1.044880431	1.479905258	11.83087309	1.39E-30	2.20E-29	58.02010396
CAPG	1.052032744	5.979293148	11.82163978	1.53E-30	2.43E-29	57.9225922
FXVD3	1.502348149	5.607557354	11.80607737	1.80E-30	2.85E-29	57.75837515
PPDPF	1.056648639	7.819710595	11.80546397	1.82E-30	2.87E-29	57.75190592
NPR3	-1.165061021	1.096627155	-11.77947764	2.39E-30	3.77E-29	57.47808462
DKK3	-1.227798211	3.473828755	-11.77589295	2.49E-30	3.91E-29	57.44034966
NAV2	-1.109153405	1.959337492	-11.77323877	2.56E-30	4.02E-29	57.41241567
AGPAT2	-1.158652975	4.873586532	-11.76338696	2.84E-30	4.46E-29	57.30877336

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
TSPAN13	1.34461195	6.720870026	11.75900896	2.97E-30	4.67E-29	57.26273821
SGCE	-1.353904222	3.493622045	-11.75698026	3.04E-30	4.76E-29	57.24141084
SORD	1.242961126	3.031549259	11.74360824	3.50E-30	5.48E-29	57.10090537
AK4	-1.233486669	2.591663115	-11.74072546	3.61E-30	5.64E-29	57.07063135
SMC4	1.039025284	2.860717168	11.71913074	4.53E-30	7.06E-29	56.84403681
CFAP45	1.026817197	1.403970733	11.71691069	4.64E-30	7.22E-29	56.82076039
BOP1	1.109394876	3.874119119	11.70792618	5.10E-30	7.93E-29	56.72659662
HIST1H4H	1.954521117	3.402757132	11.69258081	6.00E-30	9.30E-29	56.56589867
WNT11	-1.36732238	1.299346608	-11.69237968	6.01E-30	9.32E-29	56.5637935
MMP9	2.157298247	4.287832755	11.68098125	6.78E-30	1.05E-28	56.44453772
PRRT3	1.117794501	2.153527891	11.65808521	8.63E-30	1.33E-28	56.20526644
MUC1	2.237020132	5.99448124	11.65559374	8.85E-30	1.37E-28	56.17925219
IGF2	-1.734987337	3.548773787	-11.64374902	1.00E-29	1.54E-28	56.05563766
ST14	1.102338528	5.062927633	11.63979398	1.05E-29	1.61E-28	56.01438402
METRN	1.538012301	3.382077288	11.63325963	1.12E-29	1.72E-28	55.94625081
CORO2A	1.072007704	3.156761649	11.60691885	1.48E-29	2.26E-28	55.67190503
PTX3	-1.427995214	1.12085982	-11.55830794	2.46E-29	3.73E-28	55.16690628
NCOA7	-1.131090017	2.682840813	-11.55545763	2.53E-29	3.84E-28	55.13734781
HIST1H2BH	1.415009601	1.846386001	11.53812888	3.03E-29	4.59E-28	54.95776902
MBOAT2	1.076107664	3.171936531	11.50633499	4.22E-29	6.35E-28	54.62884476
MAPK8IP2	1.398070367	2.184164382	11.45665222	7.08E-29	1.06E-27	54.11629915
CXCL11	1.730019922	2.177566873	11.42794812	9.53E-29	1.42E-27	53.82098371
FGL2	-1.22929654	2.974538984	-11.4026671	1.24E-28	1.83E-27	53.56137622
PALM	-1.194570905	2.845917514	-11.3793215	1.58E-28	2.32E-27	53.32205167

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
PCAT6	1.036193718	2.634630808	11.36056426	1.91E-28	2.81E-27	53.13004858
TUBB2B	-1.339085507	1.313867011	-11.33611321	2.46E-28	3.60E-27	52.88014348
CCDC78	1.014138978	1.161844383	11.33327902	2.53E-28	3.71E-27	52.85120421
FAP	1.157577508	2.55034599	11.327269	2.69E-28	3.94E-27	52.78985651
HIST1H1PS1	1.557330175	1.941545459	11.32361287	2.80E-28	4.08E-27	52.75254897
HIST1H2AD	1.399851405	1.641900101	11.30546011	3.37E-28	4.90E-27	52.56745966
TAT	-2.417197318	1.390354406	-11.28948033	3.97E-28	5.76E-27	52.40472387
PVRL4	1.165726778	4.366437577	11.28742772	4.06E-28	5.87E-27	52.38383376
LGR6	-1.394661884	1.214275421	-11.27879527	4.43E-28	6.41E-27	52.2960119
KLK5	-2.363653272	2.045244502	-11.27081051	4.81E-28	6.95E-27	52.21482731
HSH2D	1.41090838	2.250949523	11.26208803	5.26E-28	7.59E-27	52.12619486
FKBP10	1.038008245	5.059251596	11.24394933	6.33E-28	9.11E-27	51.94205727
SULF1	1.399909081	4.480122849	11.23779471	6.74E-28	9.69E-27	51.87963204
SLC7A5	1.715209354	3.923162022	11.23687942	6.81E-28	9.78E-27	51.87035071
EFNB3	-1.007402124	1.407880937	-11.22418461	7.75E-28	1.11E-26	51.74168488
ANKRD22	1.136280499	1.984017539	11.21206478	8.77E-28	1.25E-26	51.61895589
C16orf89	-1.853366131	1.968387902	-11.20228018	9.69E-28	1.38E-26	51.51995213
ERRFI1	-1.090019663	4.157682776	-11.20059131	9.86E-28	1.41E-26	51.50287057
ZNF467	1.05332879	2.950558156	11.20000522	9.92E-28	1.42E-26	51.49694323
LDHB	-1.57343435	5.477807065	-11.19092266	1.09E-27	1.55E-26	51.40512038
COL5A2	1.526751352	5.679148062	11.18200072	1.19E-27	1.69E-26	51.31497971
ITGA6	-1.237028042	4.137358693	-11.1782806	1.24E-27	1.76E-26	51.27741149
FMOD	-1.627837399	4.939536252	-11.16906778	1.36E-27	1.93E-26	51.18441791
GOLT1A	1.106280807	2.494697703	11.16683832	1.39E-27	1.97E-26	51.16192317

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
TIMP1	1.044873317	7.401018437	11.16647623	1.40E-27	1.98E-26	51.15827018
RARRES2	-1.383476708	4.27325064	-11.15102282	1.63E-27	2.31E-26	51.00245265
CST2	1.470384273	1.495097923	11.14109308	1.81E-27	2.55E-26	50.90242251
CEMIP	1.159190953	1.482248403	11.13542	1.91E-27	2.70E-26	50.84530542
RASL11A	-1.015268516	2.095910295	-11.12582222	2.11E-27	2.97E-26	50.74872759
PDGFRL	-1.189844483	3.304428273	-11.09666038	2.83E-27	3.97E-26	50.4556994
PRSS22	1.030111229	2.511322426	11.09262731	2.95E-27	4.13E-26	50.41522264
SMKR1	1.024092	1.813427249	11.08403942	3.22E-27	4.50E-26	50.32907252
PRR15L	1.437302006	4.682681545	11.07927335	3.38E-27	4.71E-26	50.28128469
KLK7	-1.761540619	1.286492682	-11.07087405	3.68E-27	5.12E-26	50.19710805
IL34	-1.344813807	1.94983309	-11.06032464	4.09E-27	5.69E-26	50.09145657
RP11-347C12.10	1.003237455	2.325166093	11.05170951	4.46E-27	6.19E-26	50.00523725
INHBB	-1.358966205	3.363533438	-11.04873538	4.60E-27	6.37E-26	49.9754851
YBX3	-1.133947682	3.704165129	-11.04658703	4.70E-27	6.51E-26	49.95399786
AL031587.1	-1.062250154	2.377165888	-11.04065849	4.99E-27	6.90E-26	49.89471959
DNAJC1	1.094579471	4.850337206	11.03682184	5.18E-27	7.17E-26	49.85637154
HOXC11	1.263260114	1.459535211	11.01595232	6.40E-27	8.83E-26	49.64796571
IL1R1	-1.147830841	3.36585779	-11.0116549	6.68E-27	9.20E-26	49.60509089
MB	1.32986815	3.333377663	11.01062948	6.75E-27	9.30E-26	49.59486238
RAMP1	1.767357104	2.970659639	10.9920233	8.14E-27	1.12E-25	49.40940154
DEFB1	-1.891255233	1.97403542	-10.9888401	8.40E-27	1.15E-25	49.37769792
MANEAL	1.050417897	2.680323587	10.97310461	9.84E-27	1.35E-25	49.22108707
LTBP2	-1.177133276	4.241193864	-10.96101734	1.11E-26	1.52E-25	49.10090982
COMTD1	1.045083418	2.541769035	10.95353501	1.20E-26	1.63E-25	49.02657103

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
ALB	-1.728162586	0.903565429	-10.9404699	1.36E-26	1.86E-25	48.89686508
HIST1H2BC	1.538298382	2.61367619	10.93858079	1.39E-26	1.89E-25	48.87812108
SLC39A4	1.052807853	2.18164939	10.93233307	1.48E-26	2.01E-25	48.81614906
CYBRD1	-1.536675656	5.436151812	-10.9224272	1.63E-26	2.22E-25	48.7179504
IBSP	1.117215084	1.041874327	10.91326511	1.79E-26	2.43E-25	48.62718965
HIST2H2BE	1.474868219	4.567984405	10.90505285	1.94E-26	2.63E-25	48.54589077
CCL13	-1.207966249	1.128330266	-10.90097176	2.02E-26	2.73E-25	48.50550773
EFNA4	1.075869401	4.051646474	10.89580269	2.13E-26	2.88E-25	48.45437667
MUC15	-1.393814603	1.102269665	-10.89110302	2.23E-26	3.01E-25	48.40790595
TPTEP1	-1.041302753	1.141337398	-10.86112869	3.01E-26	4.04E-25	48.1119024
FAT1	-1.258319813	3.163472311	-10.8580874	3.10E-26	4.17E-25	48.08190615
S100A11	1.032479988	9.261860262	10.84383727	3.58E-26	4.79E-25	47.9414485
NKAIN1	2.192582066	2.719449204	10.82442251	4.34E-26	5.79E-25	47.75032784
MMP1	2.201231892	2.263545488	10.79343225	5.89E-26	7.84E-25	47.44583746
ZNF521	-1.015791593	2.201859778	-10.78329093	6.52E-26	8.65E-25	47.34635061
ACSL5	-1.029954934	2.577181386	-10.77598018	7.00E-26	9.28E-25	47.27467921
CBLC	1.229690814	3.430319168	10.77218353	7.27E-26	9.62E-25	47.23747428
TNNT1	2.152391742	2.642260723	10.77201044	7.29E-26	9.64E-25	47.2357783
KRT15	-2.417722624	3.348705313	-10.75282505	8.80E-26	1.16E-24	47.04793945
TFAP2A	1.014338078	3.829008601	10.70867811	1.36E-25	1.78E-24	46.61675226
OLFM4	-1.982016604	1.356133211	-10.69830165	1.51E-25	1.97E-24	46.51561578
PYCARD	1.354346135	4.118523113	10.6860971	1.70E-25	2.21E-24	46.39676454
SORBS2	-1.059113642	1.894153598	-10.67940904	1.81E-25	2.36E-24	46.33168173
NME3	1.146944571	4.894594925	10.67893317	1.82E-25	2.37E-24	46.32705215

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
APOBEC3B	1.286777975	2.118555942	10.66492589	2.09E-25	2.71E-24	46.19085805
MIR205	-1.144868573	0.986500484	-10.65321267	2.34E-25	3.04E-24	46.07708228
HPN	1.575192	3.226989658	10.63895311	2.70E-25	3.48E-24	45.93871151
CLPSL2	1.141992133	1.32573034	10.63009509	2.94E-25	3.79E-24	45.85283265
PTGDS	-1.626839347	2.726738689	-10.61206325	3.51E-25	4.51E-24	45.67819537
CTSD	1.096888875	8.037375309	10.59772705	4.03E-25	5.17E-24	45.53952446
FCER1A	-1.139166101	1.520604995	-10.59625027	4.09E-25	5.25E-24	45.52524869
TWIST1	-1.065868086	2.150436619	-10.59230213	4.25E-25	5.45E-24	45.48709067
EPS8L1	1.038865823	2.771051504	10.58959368	4.37E-25	5.59E-24	45.46092088
TMC4	1.30216534	4.823583799	10.5766033	4.95E-25	6.33E-24	45.33548079
CAPS	1.298675883	2.96001441	10.57330122	5.12E-25	6.54E-24	45.30361499
AIF1L	-1.39808905	3.159264813	-10.55789309	5.94E-25	7.57E-24	45.15503132
BSPRY	1.071474572	4.348630858	10.55537797	6.09E-25	7.76E-24	45.13079444
PPM1J	1.032409175	1.88688659	10.55048248	6.39E-25	8.13E-24	45.08363299
RNF39	-1.029381933	1.775177669	-10.53619005	7.34E-25	9.32E-24	44.94604811
GUCY1A3	-1.073135051	2.639300981	-10.52396465	8.26E-25	1.05E-23	44.82848369
NFIX	-1.173452149	4.370254324	-10.51968448	8.61E-25	1.09E-23	44.78735045
HRCT1	-1.506306997	1.486281649	-10.50256572	1.02E-24	1.28E-23	44.62297444
SERPINF1	-1.228139429	5.666272019	-10.50188269	1.02E-24	1.29E-23	44.61642053
PKP1	-1.721413875	1.99906828	-10.49984704	1.04E-24	1.31E-23	44.59688981
TNS4	-1.588850576	2.439507654	-10.49803552	1.06E-24	1.34E-23	44.57951216
TCF7L1	-1.229602527	2.776958038	-10.4859303	1.19E-24	1.50E-23	44.46345179
IRX5	1.010922735	4.107640313	10.48231638	1.24E-24	1.55E-23	44.42882438
CTD-2562J17.6	-1.114005908	3.192423725	-10.4492979	1.70E-24	2.12E-23	44.11290993

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
AC016735.2	-1.032366608	0.77221112	-10.4490082	1.71E-24	2.13E-23	44.11014174
PTGER3	-1.29809423	1.94589941	-10.44515847	1.77E-24	2.20E-23	44.07336286
PROM2	1.040718356	4.277900582	10.43581344	1.94E-24	2.41E-23	43.98413074
FOLR1	-1.777675532	1.645984725	-10.42415938	2.17E-24	2.69E-23	43.87294344
PDLIM4	-1.091980767	2.590346601	-10.41009079	2.48E-24	3.07E-23	43.73885726
ARID5A	-1.023586579	3.444122543	-10.39941445	2.75E-24	3.39E-23	43.63720258
SLC6A14	-1.384966969	0.985623973	-10.39312994	2.92E-24	3.59E-23	43.57740525
PMAIP1	1.19986279	2.724381864	10.38819191	3.06E-24	3.77E-23	43.53044068
MRPL12	1.060460522	3.887413209	10.38279986	3.22E-24	3.96E-23	43.47917934
SPP1	1.862614952	5.807503544	10.33871712	4.92E-24	5.99E-23	43.06092153
RNASE1	-1.173952494	5.877456264	-10.33569382	5.06E-24	6.16E-23	43.03229066
HIST1H2BG	1.563829316	2.614330874	10.32089896	5.83E-24	7.08E-23	42.89228276
MFAP5	-1.396241018	3.436192112	-10.28130468	8.51E-24	1.03E-22	42.5184134
SOCS3	-1.223266678	4.387740267	-10.26878683	9.58E-24	1.15E-22	42.40046279
PODXL2	1.259263551	4.106347228	10.26551001	9.88E-24	1.19E-22	42.36960646
HIST1H2AI	1.375041204	1.458601797	10.25063357	1.14E-23	1.37E-22	42.22962508
CTF1	-1.01724632	2.085335583	-10.25010332	1.14E-23	1.37E-22	42.22463877
HIST1H1C	1.694459707	6.169271007	10.24463864	1.21E-23	1.45E-22	42.17326307
GOLM1	1.122436962	5.627062773	10.19382221	1.95E-23	2.32E-22	41.69661366
RAB31	1.214161554	4.687752779	10.16659921	2.52E-23	2.98E-22	41.4420824
SLC28A3	-1.167336242	1.090923187	-10.1517196	2.90E-23	3.42E-22	41.30320094
GEM	-1.152290318	3.365686817	-10.13173613	3.50E-23	4.12E-22	41.11695006
BASP1	1.033490398	3.968320854	10.12606922	3.69E-23	4.34E-22	41.06418903
FCGR3A	1.123792067	4.39597477	10.12416978	3.76E-23	4.41E-22	41.04651007

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
FGFR1	-1.114541254	3.365109685	-10.12334608	3.79E-23	4.45E-22	41.03884437
FAM129A	-1.274764434	3.498807904	-10.11527683	4.09E-23	4.78E-22	40.9637763
CRABP2	1.759223608	8.110730653	10.11299817	4.17E-23	4.88E-22	40.94258713
GABRP	-2.592751024	2.796177303	-10.11274364	4.18E-23	4.89E-22	40.94022053
OLFML2B	1.009219992	4.118102722	10.09707898	4.85E-23	5.65E-22	40.79466656
MMP3	1.419395718	2.310818603	10.07581954	5.92E-23	6.86E-22	40.59742973
CPE	-1.240098854	4.944200621	-10.05739382	7.03E-23	8.12E-22	40.4267657
NFIL3	-1.002339077	3.470424097	-10.05005981	7.53E-23	8.69E-22	40.35890906
MYBPC1	-1.732106585	1.103032692	-10.04783935	7.68E-23	8.87E-22	40.33837289
MAOB	-2.033518861	4.096220525	-10.04411539	7.96E-23	9.17E-22	40.30393995
U47924.27	1.064980729	3.179969521	10.04151666	8.15E-23	9.39E-22	40.27991764
KCNK6	1.015847142	3.106069003	10.03085791	9.00E-23	1.04E-21	40.18144429
CNTD2	1.247163059	1.685622533	10.02996657	9.08E-23	1.04E-21	40.17321342
ZMYND10	1.146447186	1.76927971	10.00151715	1.18E-22	1.36E-21	39.9108274
PLA2G16	-1.238538331	4.630252639	-9.974078627	1.53E-22	1.74E-21	39.65835956
C3	-1.374432054	5.610912729	-9.962190784	1.71E-22	1.94E-21	39.54915847
C15orf48	1.506437764	3.59827985	9.950489839	1.90E-22	2.16E-21	39.44178148
FOXD3-AS1	1.084395401	1.12826985	9.948155342	1.94E-22	2.20E-21	39.42037106
ELF5	-1.847658296	1.877017747	-9.942296875	2.05E-22	2.32E-21	39.36665984
IGHG4	2.398578764	5.11032781	9.929733481	2.30E-22	2.60E-21	39.25156699
LYNX1	-1.046148707	1.66015958	-9.928782806	2.32E-22	2.62E-21	39.24286289
PRR15	1.676010444	3.575770328	9.927643663	2.35E-22	2.65E-21	39.23243415
DEGS2	1.68815828	3.363868636	9.912029737	2.71E-22	3.05E-21	39.08959217
VCAN	1.316951448	4.393683823	9.891325016	3.28E-22	3.68E-21	38.90047072

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CLDN3	1.507691809	5.345984811	9.879253758	3.67E-22	4.10E-21	38.7903635
HIST1H2BJ	1.084433246	1.698595723	9.874690352	3.83E-22	4.27E-21	38.7487683
CLDN4	1.086320038	5.594050783	9.874591683	3.83E-22	4.28E-21	38.74786911
STEAP4	-1.506858987	2.241174132	-9.869790098	4.00E-22	4.47E-21	38.70412085
SCGB3A1	-1.988859426	1.773870186	-9.865675677	4.16E-22	4.64E-21	38.66664781
HIST1H2AC	1.241109342	5.51197248	9.855490107	4.57E-22	5.09E-21	38.57393724
PARD6B	1.359535794	2.851141035	9.842855238	5.13E-22	5.71E-21	38.45904547
MYC	-1.191196169	4.898171905	-9.799826715	7.61E-22	8.40E-21	38.06871406
ITPR1	-1.0657742	2.661068802	-9.796888648	7.82E-22	8.63E-21	38.04211439
CMTM7	-1.03905236	2.597764304	-9.787880077	8.49E-22	9.34E-21	37.96059782
KRT17	-2.561271655	4.343382339	-9.774546878	9.59E-22	1.05E-20	37.84006545
HIST1H2AE	1.486655894	2.851080225	9.770627866	9.94E-22	1.09E-20	37.80466403
HID1	1.175355993	4.373551534	9.770187014	9.98E-22	1.09E-20	37.80068246
TPM2	-1.164129654	4.625745601	-9.76602827	1.04E-21	1.14E-20	37.7631301
DSC3	-1.427201047	1.478642225	-9.761605057	1.08E-21	1.18E-20	37.72320454
C4orf48	1.11673507	2.317684802	9.759194761	1.10E-21	1.21E-20	37.70145479
EFNA3	1.135060469	2.760269816	9.755572153	1.14E-21	1.25E-20	37.66877409
OASL	1.209830835	2.150976621	9.75166316	1.18E-21	1.29E-20	37.63352137
PLEKHA4	-1.064582457	3.009077703	-9.747412249	1.23E-21	1.34E-20	37.59519875
LAMC2	-1.534967294	3.033916568	-9.739268028	1.32E-21	1.44E-20	37.52181698
TTC39A	1.221875575	3.432361409	9.737561836	1.34E-21	1.46E-20	37.50645031
AMIGO2	-1.384444857	3.259089863	-9.733885615	1.39E-21	1.51E-20	37.4733485
MIEN1	1.166641087	4.52568402	9.727461602	1.47E-21	1.60E-20	37.41553026
IER3	1.231779024	5.847810073	9.724078713	1.52E-21	1.64E-20	37.38509618

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
PM20D2	-1.026157615	1.683911534	-9.721871697	1.55E-21	1.68E-20	37.36524567
LGALS3	-1.006776568	5.973826749	-9.713547126	1.67E-21	1.81E-20	37.29040666
RPL39L	1.028752013	3.630208248	9.698123024	1.92E-21	2.07E-20	37.15188605
IGJ	-2.373917853	5.489960947	-9.693605371	2.00E-21	2.16E-20	37.11134943
HEY2	-1.014747428	1.805400943	-9.643099296	3.16E-21	3.38E-20	36.65925683
FNDC1	1.273604895	3.057680209	9.630850214	3.53E-21	3.77E-20	36.54991551
CDH11	1.030853367	3.134439081	9.627471735	3.64E-21	3.88E-20	36.51977841
MZT2B	1.033375461	4.866911675	9.626344808	3.68E-21	3.92E-20	36.50972787
MT-TF	-1.190395891	1.422413258	-9.602599346	4.55E-21	4.83E-20	36.29818651
ID1	-1.00551204	3.294275922	-9.595876204	4.84E-21	5.13E-20	36.23837303
FAM171A1	-1.109840334	2.4756772	-9.580916423	5.53E-21	5.85E-20	36.10540936
MDK	1.223098924	5.832020584	9.572251541	5.98E-21	6.32E-20	36.02847629
CELSR1	1.248338715	3.799848656	9.562337711	6.54E-21	6.89E-20	35.94052712
ARHGAP36	-1.063088543	0.460768322	-9.553275147	7.09E-21	7.46E-20	35.86019801
ME1	-1.189384383	2.475875902	-9.549703815	7.32E-21	7.69E-20	35.82856019
MEX3A	1.21010903	2.617382723	9.517553797	9.76E-21	1.02E-19	35.54420431
ZG16B	1.58386212	4.313255583	9.504167567	1.10E-20	1.15E-19	35.42604974
TMEM63C	1.051268314	2.150790776	9.499513766	1.15E-20	1.19E-19	35.38500598
TPPP3	-1.134734517	2.675853166	-9.483959274	1.32E-20	1.37E-19	35.24794959
MUCL1	-3.279223211	3.850084827	-9.475538621	1.42E-20	1.47E-19	35.17383241
GSTA1	-1.343622375	0.877653868	-9.449151364	1.79E-20	1.85E-19	34.94194183
FBXO32	-1.053414897	4.072059619	-9.448611611	1.80E-20	1.86E-19	34.93720428
WISP2	-1.284237897	2.28620476	-9.440155754	1.94E-20	2.00E-19	34.86301543
COL1A2	1.423923543	8.180852326	9.436706254	2.00E-20	2.06E-19	34.83276705

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
ANPEP	-1.581509765	3.510609087	-9.409591779	2.55E-20	2.61E-19	34.59533302
CX3CR1	-1.029024311	1.728678875	-9.404183268	2.67E-20	2.74E-19	34.54804237
RP1-34B20.4	1.115683531	1.318247967	9.383730745	3.20E-20	3.27E-19	34.36942198
OAS3	1.093513563	3.741678633	9.340353494	4.69E-20	4.75E-19	33.99169762
CFB	1.45765055	2.910898165	9.326982848	5.27E-20	5.32E-19	33.87557128
FBXL16	1.249547138	2.701317136	9.29890092	6.75E-20	6.76E-19	33.63214163
NR2F1	-1.112335321	2.118717302	-9.283419177	7.73E-20	7.72E-19	33.49820797
EPYC	1.074914354	1.023043982	9.272315087	8.51E-20	8.49E-19	33.40226425
TNFRSF12A	1.052725244	4.392151877	9.253288854	1.01E-19	9.99E-19	33.23810049
LINGO1	1.160729508	1.937559734	9.224311189	1.29E-19	1.28E-18	32.98863249
WNT7B	1.028928461	2.036529606	9.207104068	1.50E-19	1.48E-18	32.84081682
CTD-2015G9.2	-1.123518116	0.788285589	-9.182187996	1.86E-19	1.83E-18	32.62720143
HSPB1	1.218191794	7.805952593	9.178994834	1.92E-19	1.88E-18	32.59986139
MAGED2	1.064502339	7.645671995	9.158480832	2.29E-19	2.23E-18	32.42441564
SEMA3C	-1.217339479	4.432735619	-9.157710689	2.30E-19	2.25E-18	32.41783561
CXCL9	1.909460354	3.816441149	9.11279278	3.40E-19	3.29E-18	32.03489147
PLA2G2A	-1.663086893	1.831439479	-9.106470676	3.59E-19	3.47E-18	31.98112392
CTA-384D8.35	1.067524608	1.486585862	9.043522145	6.15E-19	5.87E-18	31.44753334
PI3	-1.687429839	1.329304262	-9.036169028	6.55E-19	6.24E-18	31.38541353
ARNT2	1.180225789	2.709273298	9.00196229	8.77E-19	8.30E-18	31.09700966
MIR205HG	-1.443594635	2.355432945	-8.991634022	9.58E-19	9.04E-18	31.01011704
KCNK15	1.29583522	2.229270012	8.991318309	9.60E-19	9.06E-18	31.00746229
EDN2	1.123817699	1.815036006	8.989818313	9.73E-19	9.17E-18	30.9948503
VSIG2	-1.251780546	1.464409219	-8.975475188	1.10E-18	1.03E-17	30.87434561

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
CBX2	1.126570418	1.836340908	8.946896657	1.40E-18	1.31E-17	30.63474102
TRPS1	1.098072212	5.15883172	8.943107122	1.45E-18	1.35E-17	30.60301928
NOVA1	-1.113212544	1.234946374	-8.940717812	1.48E-18	1.38E-17	30.58302468
GPR160	1.000996234	3.289236629	8.94003977	1.48E-18	1.38E-17	30.57735143
FGD3	1.223642435	2.856604842	8.931813371	1.59E-18	1.48E-17	30.50855017
CPNE7	1.021400943	1.549927149	8.930818105	1.60E-18	1.49E-17	30.50023004
RP11-817J15.2	-1.005786361	0.780703453	-8.906048796	1.98E-18	1.83E-17	30.2934264
BATF	1.040566799	3.482224411	8.894847751	2.17E-18	2.01E-17	30.20007137
RGS5	-1.027347112	3.282052442	-8.883984815	2.38E-18	2.20E-17	30.1096323
MAPK15	1.202668977	1.97216728	8.883828572	2.39E-18	2.20E-17	30.10833221
MARCO	-1.242494192	1.238332264	-8.883688814	2.39E-18	2.21E-17	30.1071693
CNTNAP2	1.232462966	1.390716837	8.868327259	2.72E-18	2.50E-17	29.97944562
PPP2R2C	1.076614974	1.265648001	8.853860709	3.07E-18	2.82E-17	29.85934009
HOXC10	1.590507716	3.33158932	8.852685848	3.10E-18	2.84E-17	29.84959357
CAPN13	1.167104325	2.527017727	8.840595818	3.43E-18	3.14E-17	29.74936175
SLC44A4	1.859961502	4.332928852	8.828224226	3.81E-18	3.48E-17	29.64691969
TAP1	1.022301045	4.51140203	8.804896026	4.63E-18	4.21E-17	29.45409379
SESN3	-1.052376708	2.734925717	-8.799953591	4.82E-18	4.38E-17	29.41329802
PODN	-1.118262856	3.342060309	-8.798824288	4.87E-18	4.42E-17	29.40397936
ADAMDEC1	1.157444763	1.564483475	8.797125039	4.94E-18	4.48E-17	29.38995966
FBLN2	-1.166806647	4.723914082	-8.789436398	5.27E-18	4.77E-17	29.32655393
ESPN	1.085471252	2.349412161	8.770742627	6.16E-18	5.56E-17	29.17259512
SERPINB5	-1.50080307	1.925998062	-8.764040219	6.51E-18	5.87E-17	29.11746515
RND1	1.017893709	2.412641619	8.763206603	6.55E-18	5.91E-17	29.11061092

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
TTYH1	-1.062438358	0.79655127	-8.756947001	6.91E-18	6.21E-17	29.05916087
EEF1A2	2.147282221	4.006458383	8.71982827	9.40E-18	8.38E-17	28.75473056
TFPI2	-1.457755948	1.616949394	-8.716265222	9.68E-18	8.63E-17	28.72556782
SLC34A2	-1.671280138	1.949222702	-8.714040196	9.86E-18	8.78E-17	28.70736179
OAS2	1.166583226	3.766696911	8.693994152	1.16E-17	1.03E-16	28.54352132
COL3A1	1.359198918	8.733216808	8.680214815	1.30E-17	1.16E-16	28.43109219
IGHA2	-2.326258179	5.522484863	-8.675724424	1.35E-17	1.20E-16	28.3944878
AL928761.1	1.65239385	1.864019767	8.673690468	1.38E-17	1.22E-16	28.37791304
APOC1	1.084886277	5.013068957	8.650937624	1.66E-17	1.46E-16	28.19273254
PHLDA2	1.021932337	2.891978351	8.633329102	1.92E-17	1.69E-16	28.04971426
CACNG4	1.668511328	3.819768411	8.623270992	2.09E-17	1.83E-16	27.96813632
RAI2	-1.189616542	3.018642636	-8.600639549	2.51E-17	2.19E-16	27.78488647
DLK1	-1.005479457	0.370046803	-8.58640049	2.82E-17	2.46E-16	27.66980831
CDKN2A	1.076251279	1.751164933	8.567643216	3.29E-17	2.85E-16	27.51847107
CLPSL1	1.066240618	1.431129195	8.541084544	4.09E-17	3.52E-16	27.30468994
SLC5A1	-1.151073395	1.356720027	-8.518008674	4.93E-17	4.23E-16	27.11941884
FBLN1	-1.012078392	4.803708673	-8.506560486	5.41E-17	4.62E-16	27.02766812
CRISPLD1	-1.3711117035	2.323811	-8.495038748	5.94E-17	5.07E-16	26.93543799
GPX2	-1.005829942	1.043790691	-8.492751811	6.05E-17	5.16E-16	26.91714447
GALNT6	1.313509306	4.292810853	8.476947366	6.88E-17	5.84E-16	26.79084159
TINCR	1.134559482	1.801208871	8.443301089	9.03E-17	7.63E-16	26.52264683
CLGN	1.254209854	2.096092646	8.443230742	9.03E-17	7.63E-16	26.52208708
FGF10	-1.334993122	1.319492535	-8.406208735	1.22E-16	1.02E-15	26.22807758
SYT13	1.716261463	2.022729548	8.380058442	1.50E-16	1.25E-15	26.02109543

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
RP11-452I5.2	1.05798928	2.486273525	8.359416543	1.77E-16	1.47E-15	25.8581166
RP11-459E5.1	1.060190762	1.328850867	8.327848452	2.28E-16	1.88E-15	25.60955947
PRLR	1.080159835	3.886316932	8.326710678	2.30E-16	1.90E-15	25.60061659
HOTAIR	1.016017217	1.406257559	8.324937783	2.33E-16	1.92E-15	25.58668383
F2RL2	1.174964635	2.733244443	8.255383831	4.05E-16	3.30E-15	25.04215696
RET	1.414119714	2.4351675	8.24191721	4.51E-16	3.66E-15	24.93719847
FGFR3	1.174250457	2.155422191	8.220501599	5.34E-16	4.32E-15	24.77059997
RP11-428L9.2	1.755205983	1.781986882	8.210007641	5.79E-16	4.68E-15	24.68910524
NEURL1	1.037821346	1.305131652	8.194008194	6.57E-16	5.29E-15	24.5650341
SLC16A6	1.287890417	2.48552806	8.168457389	8.03E-16	6.43E-15	24.36734234
GDF15	1.294948225	2.566595707	8.168136467	8.05E-16	6.44E-15	24.36486281
ETNK2	1.022786825	3.20582556	8.167308271	8.10E-16	6.48E-15	24.35846431
NTN4	-1.405609295	4.322078326	-8.138713132	1.01E-15	8.06E-15	24.13789884
MGST1	-1.058390426	4.242165853	-8.121301622	1.16E-15	9.21E-15	24.00393533
NAT1	1.920840538	3.863323926	8.118782042	1.18E-15	9.38E-15	23.984571
CEACAM6	2.183763301	3.424315636	8.091447421	1.47E-15	1.16E-14	23.77483474
ANXA9	1.152960046	3.997404069	8.081772704	1.58E-15	1.24E-14	23.70075293
CXCL14	-1.89850223	5.659753347	-8.071967399	1.70E-15	1.34E-14	23.62575205
NPNT	1.321366001	4.242460564	8.060759056	1.86E-15	1.46E-14	23.54011906
PKIB	1.211948946	3.277244244	8.051268747	2.00E-15	1.56E-14	23.46769526
ZNF552	1.089713124	3.979366673	8.036824501	2.24E-15	1.74E-14	23.35761283
GATA3	1.611198992	6.68116451	8.035795437	2.26E-15	1.76E-14	23.34977689
EVL	1.019258357	4.233356567	7.998474337	3.01E-15	2.33E-14	23.06619771
SIX2	1.00908104	1.69724941	7.944209637	4.56E-15	3.50E-14	22.65598655

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
HIST3H2A	1.297546919	3.612699847	7.935458669	4.88E-15	3.73E-14	22.59006868
VAV3	1.138074763	4.214627946	7.921268674	5.44E-15	4.15E-14	22.48331923
F13A1	-1.096899796	3.214659956	-7.879254749	7.49E-15	5.66E-14	22.16826062
KLF5	-1.038903726	2.597012761	-7.855447358	8.97E-15	6.75E-14	21.99039983
CLU	-1.174736374	6.336963797	-7.841315733	9.99E-15	7.49E-14	21.88505399
SLPI	-1.912080074	4.909122361	-7.827910942	1.11E-14	8.26E-14	21.78528421
ASPN	1.412468734	4.608374691	7.76909332	1.72E-14	1.27E-13	21.34933167
DSG3	-1.21918442	1.316489209	-7.759431283	1.85E-14	1.37E-13	21.27800071
KCNK1	1.112122926	2.619787083	7.732204181	2.27E-14	1.67E-13	21.07742474
AL122127.2	1.270818439	1.725024049	7.714698264	2.59E-14	1.89E-13	20.9487987
FOXA1	1.690756779	5.422918895	7.710352873	2.67E-14	1.96E-13	20.9169114
TPSP2	1.122880212	1.400322829	7.683764302	3.26E-14	2.37E-13	20.72215295
CD24	1.42405925	7.579697177	7.660748398	3.86E-14	2.80E-13	20.55405494
FSIP1	1.197828317	1.989962934	7.641610332	4.45E-14	3.22E-13	20.41462623
PPP1R1B	-1.695131539	3.123020437	-7.585321492	6.74E-14	4.82E-13	20.00636884
COL12A1	1.064289861	5.017956744	7.583388902	6.84E-14	4.89E-13	19.99240051
GATA3-AS1	1.073882698	1.805270228	7.573555045	7.35E-14	5.24E-13	19.92137351
MIA	-1.087073884	1.10886851	-7.565834748	7.78E-14	5.54E-13	19.86567066
CST6	1.041102573	1.829312646	7.493848122	1.32E-13	9.24E-13	19.34875996
PTHLH	-1.059922355	1.568050536	-7.450943998	1.80E-13	1.25E-12	19.04281542
CEACAM5	1.564655406	1.820690344	7.44703251	1.85E-13	1.29E-12	19.01500246
HMGCS2	-1.835411691	2.290589485	-7.433133494	2.04E-13	1.42E-12	18.91627983
KLK6	-1.369489577	1.447873336	-7.403912378	2.52E-13	1.74E-12	18.7092739
MIR8071-1	1.187198527	1.53354752	7.390687951	2.77E-13	1.91E-12	18.61583443

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
MIR8071-2	1.264896817	1.966357561	7.296785076	5.43E-13	3.68E-12	17.95672739
SPDEF	1.523556305	5.855156841	7.286211406	5.85E-13	3.96E-12	17.88299217
BCAS1	1.048073587	1.892663125	7.267870724	6.66E-13	4.50E-12	17.75532548
TSPAN1	1.498860656	4.182425299	7.213074427	9.81E-13	6.55E-12	17.37564871
ERBB2	1.080111483	5.275384144	7.189472444	1.16E-12	7.69E-12	17.21292332
BMPR1B	1.848483055	2.72616579	7.135131799	1.69E-12	1.11E-11	16.84012492
NUPR1L	1.025228449	2.221394927	7.124991143	1.82E-12	1.19E-11	16.77084294
RIMS4	1.194194427	1.623893239	7.098631061	2.18E-12	1.43E-11	16.59117091
AKR7A3	1.335735128	2.859779977	7.093847849	2.25E-12	1.47E-11	16.5586337
CYP2B7P	1.886195174	2.811059006	7.08211633	2.45E-12	1.59E-11	16.47891669
PROM1	-1.396628566	2.221161713	-7.072905703	2.61E-12	1.69E-11	16.41641429
DSCAM-AS1	1.404673132	1.380440425	7.001490909	4.26E-12	2.74E-11	15.93433619
RN7SL2	1.132467807	5.456868205	6.990249979	4.60E-12	2.95E-11	15.85886508
FOXC1	-1.045655303	2.060018257	-6.968560062	5.34E-12	3.41E-11	15.71355523
ASS1	-1.110794473	4.558663976	-6.931142214	6.88E-12	4.37E-11	15.46385444
RP11-616M22.7	1.032962901	1.911361963	6.930415262	6.92E-12	4.39E-11	15.45901552
IGHV3-72	-1.211489667	2.222522077	-6.915324639	7.66E-12	4.85E-11	15.35867123
MGP	-1.427030243	8.707464332	-6.908763143	8.01E-12	5.06E-11	15.31510377
C19orf33	1.427725592	3.565255706	6.863994451	1.08E-11	6.80E-11	15.01886324
SUSD3	1.410083059	4.430586666	6.8444449568	1.24E-11	7.73E-11	14.89008917
FABP7	-1.211405077	0.986244598	-6.839678305	1.28E-11	7.98E-11	14.85870454
MT1E	-1.034162888	4.284980774	-6.806209907	1.60E-11	9.90E-11	14.63912254
ZNF703	1.078065416	5.153176187	6.755867343	2.23E-11	1.37E-10	14.31070582
NELL2	1.082684002	1.857871472	6.597807042	6.31E-11	3.76E-10	13.29425309

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
C2orf54	1.069026894	1.529804287	6.575622127	7.29E-11	4.33E-10	13.15337273
SEZ6L2	1.018873828	3.69034206	6.554957118	8.33E-11	4.93E-10	13.02254061
CST4	1.053664102	0.994015359	6.533806066	9.55E-11	5.62E-10	12.88902755
ARHGAP40	-1.049492292	1.419952195	-6.515739769	1.07E-10	6.30E-10	12.77530421
MX1	1.002868584	3.798958918	6.507851392	1.13E-10	6.62E-10	12.72574046
DNAJC12	1.206535837	3.416919411	6.366663793	2.77E-10	1.58E-09	11.84809757
AGR2	1.807526453	6.095132902	6.352872352	3.02E-10	1.72E-09	11.76333012
AP000439.3	1.00597823	1.548115658	6.330553419	3.47E-10	1.96E-09	11.62651296
PYDC1	1.159054633	1.374658051	6.32211157	3.66E-10	2.07E-09	11.57488081
PRAME	1.258502138	1.348745486	6.288910576	4.51E-10	2.52E-09	11.37244075
DIO1	1.041562038	1.422526553	6.227246578	6.61E-10	3.66E-09	10.99909449
HSPB8	-1.106568572	3.367456796	-6.224242341	6.73E-10	3.72E-09	10.98099318
BPIFB1	1.167078378	1.875441085	6.214424804	7.15E-10	3.95E-09	10.92189695
KCNE4	1.150759502	3.006245038	6.18536177	8.55E-10	4.69E-09	10.74746529
IGHG1	1.84314658	6.437448762	6.184268672	8.61E-10	4.72E-09	10.74091964
MLPH	1.148228275	4.779317815	6.107405262	1.38E-09	7.43E-09	10.28336748
LTF	-1.897747649	5.123222691	-6.098174948	1.46E-09	7.84E-09	10.22878223
CCNO	1.004057566	2.097532326	6.079042066	1.63E-09	8.76E-09	10.11588299
IGHGP	1.212193213	3.277621735	6.056427406	1.87E-09	1.00E-08	9.982867986
KRT6B	-1.334624069	2.441638207	-6.044956539	2.01E-09	1.07E-08	9.915576556
IGHA1	-1.631495142	7.832340112	-6.040935421	2.06E-09	1.09E-08	9.892015883
AGTR1	-1.114763021	1.719677605	-6.02401138	2.28E-09	1.21E-08	9.793015403
IGHG3	1.488819607	4.734611319	5.9254959	4.09E-09	2.13E-08	9.22191647
IFI27	1.003598621	4.996332935	5.746934711	1.16E-08	5.83E-08	8.209419134

Symbol	logFC	AveExpr	t	P.Value	adj.P.Val	B
RARRES1	-1.040311651	3.283688065	-5.656578654	1.94E-08	9.60E-08	7.708227059
FDCSP	-1.619566219	2.600050093	-5.63818957	2.15E-08	1.06E-07	7.607146049
KCNJ3	1.216826111	1.492283107	5.62728219	2.29E-08	1.13E-07	7.547337703
PIP	-2.102197614	5.456754505	-5.601077827	2.65E-08	1.30E-07	7.404099995
LRG1	1.062286044	3.001510204	5.502135519	4.61E-08	2.21E-07	6.868981071
AC244250.2	-1.065518066	2.166750958	-5.442572236	6.39E-08	3.03E-07	6.551206279
AGR3	1.572791129	5.04062517	5.407341269	7.75E-08	3.65E-07	6.364793829
AQP5	-1.027008984	1.428867624	-5.345380031	1.08E-07	5.04E-07	6.039741959
CXCL13	1.244766382	2.697063058	5.341652174	1.11E-07	5.14E-07	6.020299168
IGKV2-24	-1.057282003	2.671951534	-5.337881599	1.13E-07	5.24E-07	6.000646718
PVALB	1.109164857	1.415000726	5.319082888	1.25E-07	5.77E-07	5.902864016
CA12	1.10860942	5.018182078	5.250009703	1.81E-07	8.21E-07	5.546399356
TCN1	-1.102809256	1.753445243	-5.228756994	2.02E-07	9.15E-07	5.437614934
IGHV3-74	-1.049271124	3.392548249	-4.962860638	7.98E-07	3.43E-06	4.112264338
TFF1	1.795267284	5.447915274	4.882978109	1.19E-06	5.02E-06	3.7270382
IGKV1-9	-1.055171887	3.602220778	-4.708320109	2.80E-06	1.14E-05	2.905693248
RP11-53O19.1	1.013196571	2.121150258	4.706019579	2.83E-06	1.15E-05	2.895066833
MSMB	1.030383957	2.257232603	4.611667031	4.43E-06	1.77E-05	2.463552628
PSPHP1	1.165473518	2.168477947	4.549118464	5.95E-06	2.34E-05	2.182136839
S100A7	1.340997748	1.937825315	4.450161552	9.40E-06	3.63E-05	1.744494256
CLEC3A	1.367525711	1.905351124	4.419367548	1.08E-05	4.15E-05	1.610203844
TFF3	1.23650443	5.691061848	4.097094266	4.47E-05	0.000159835	0.259021759
SCGB1D2	-1.555707447	4.862077265	-4.026382642	6.03E-05	0.000212226	-0.024163579
SCGB2A2	-1.184982449	5.438807489	-2.832017777	0.004704847	0.012449103	-4.077465538

Supplementary Table 8 List of the common genes between TCGA-DEGs and lipid metabolism-related genes

Gene Name							
B4GALT3	LIPE	THRSP	ALDH1A1	CYP26B1	GOLM1	MIF	RBP4
AADAC	LPCAT2	BAX	ALDH1A2	CYP2U1	GPC3	MIR27A	RDH5
ACSL1	LPL	KIT	ALDH1A3	CYP39A1	GPIHBP1	MIR27B	RETSAT
ACSL4	MBOAT2	ABCD2	ANGPTL4	DAB2IP	GSTA1	MLXIPL	RGL1
AGPAT2	MBOAT7	ACAA2	ANXA1	DEGS2	GSTM2	P2RY12	SCT
APOC1	MGLL	ACACB	APOD	DHRS3	HADH	PAFAH1B3	SDC1
BMX	PCK1	ACADL	BMP2	DKK3	HCAR2	PC	SLC27A6
C3	PGP	ACADS	BMP6	ECHDC1	HMGCS2	PDE3B	SORBS1
CAT	PIK3C2G	ACSL5	CCDC3	ECHDC3	HSD11B1	PDGFRA	SPP1
CAV1	PIK3R1	ACSM5	CCL21	EDN1	HSD17B11	PDK4	SQLE
CPNE7	PLA2G2A	ACSS2	CD36	EDN2	HSD17B13	PLIN1	STAT5B
DGAT2	PLA2G4A	ADH1B	CEBPA	EEF1A2	HSD17B6	PLTP	TEK
ENPP2	PLEKHA4	ADH1C	CERS2	EGFR	IRS2	PPARG	TIPARP

Gene Name

ETNK2	PNPLA2	ADIPOQ	CES1	EGR1	KLF4	PRKAR2B	TRIB3
FABP4	RGN	ADM	CIDEA	FADS3	LEP	PRLR	TWIST1
FABP7	SERINC2	ADRA2A	CLPSL1	FAXDC2	LEPR	PTGDS	VAV3
FAM126A	SLC44A4	AGTR1	CLPSL2	FGF1	LGALS12	PTGIS	VLDLR
FGF2	SOCS2	AKR1C1	CLU	FGFR1	LRP1	PTGS2	ABHD17C
GPAM	SOCS3	AKR1C2	CRABP2	FGFR3	LSR	QKI	APOLD1
GPD1	STARD10	AKR1C3	CYGB	G0S2	ME1	RARRES2	CTSD
NMT2	OLR1						

Supplementary Table 9 Sequences of the plasmids used in this study.

Gene		Primer
si- <i>SDCI</i>		5'-AUUAGUAGCCACAAUUUGCGG-3'
si- <i>SORBS1</i>		5'-AAGAAACUUCAUUUAGUAGAG-3'
<i>SDCI</i>	upstream	5'-AAGGGATCCCTGAAGTCTAGGTTGCATCCTGA-3'
	downstream	5'-CGAGAATTCCTGCGTAACGTCATTACGTCTGCA-3'
<i>SORBS1</i>	upstream	5'-TTATCTAGAGTCGTCAACGTCTTACGCAATGC-3'
	downstream	5'-TGCGAGCTCTTGAAGTCAACTGACGTCAGTCTGC-3'

Supplementary Table 10 Distribution of BRCA sample characteristics in TCGA-training set and testing set

	Train (N=617)	Validate (N=264)	P-value
fustate			
Alive	534 (86.5%)	221 (83.7%)	0.319
Dead	83 (13.5%)	43 (16.3%)	
Age			
<60	332 (53.8%)	160 (60.6%)	0.0739
>60	285 (46.2%)	104 (39.4%)	
Gender			
female	609 (98.7%)	261 (98.9%)	1
male	8 (1.3%)	3 (1.1%)	
ajcc_pathologic_m			
M0	606 (98.2%)	258 (97.7%)	0.828
M1	11 (1.8%)	6 (2.3%)	
ajcc_pathologic_n			
N0	299 (48.5%)	133 (50.4%)	0.671
N1	211 (34.2%)	83 (31.4%)	
N2	73 (11.8%)	29 (11.0%)	
N3	34 (5.5%)	19 (7.2%)	
ajcc_pathologic_stage			
Stage_I	108 (17.5%)	47 (17.8%)	0.962
Stage_II	360 (58.3%)	154 (58.3%)	
Stage_III	138 (22.4%)	57 (21.6%)	
Stage_IV	11 (1.8%)	6 (2.3%)	
ajcc_pathologic_t			

T1	162 (26.3%)	69 (26.1%)	0.107
T2	357 (57.9%)	165 (62.5%)	
T3	78 (12.6%)	19 (7.2%)	
T4	20 (3.2%)	11 (4.2%)	

Supplementary Table 11 Results of classical pathway analysis based on 162 lipid metabolism-related DEGs

Ingenuity Canonical Pathways	P-value	z-score
CREB Signaling in Neurons	0.000169824	-3.051
Cardiac Hypertrophy Signaling (Enhanced)	3.01995E-05	-2.887
Xenobiotic Metabolism PXR Signaling Pathway	3.98107E-05	-2.828
Retinol Biosynthesis	5.12861E-08	-2.646
Estrogen Receptor Signaling	0.006309573	-2.449
HIF1 α Signaling	0.002630268	-2.449
IL-8 Signaling	0.002238721	-2.449
Endothelin-1 Signaling	0.002187762	-2.449
Colorectal Cancer Metastasis Signaling	0.001548817	-2.449
Triacylglycerol Degradation	1.69824E-06	-2.449
Breast Cancer Regulation by Stathmin1	0.015848932	-2.333
Retinoate Biosynthesis I	3.98107E-14	-2.333
Sirtuin Signaling Pathway	0.005370318	-2.236
ERK/MAPK Signaling	0.002344229	-2.236
Ovarian Cancer Signaling	0.000331131	-2.236
Xenobiotic Metabolism AHR Signaling Pathway	0.000251189	-2.236
Serotonin Degradation	1.8197E-05	-2.236
Noradrenaline and Adrenaline Degradation	1.09648E-06	-2.236
Tumor Microenvironment Pathway	2.95121E-05	-2.121
Regulation Of The Epithelial Mesenchymal Transition By Growth Factors Pathway	4.57088E-07	-2.121
Ethanol Degradation II	2.63027E-10	-2.121
Ethanol Degradation IV	3.98107E-11	-2.121
HER-2 Signaling in Breast Cancer	0.038904514	-2

Ingenuity Canonical Pathways	P-value	z-score
IL-17 Signaling	0.035481339	-2
Dendritic Cell Maturation	0.033113112	-2
Glioblastoma Multiforme Signaling	0.025118864	-2
Huntington's Disease Signaling	0.022387211	-2
Xenobiotic Metabolism General Signaling Pathway	0.015848932	-2
Th2 Pathway	0.012022644	-2
p70S6K Signaling	0.011748976	-2
CCR3 Signaling in Eosinophils	0.01	-2
Renin-Angiotensin Signaling	0.009549926	-2
ILK Signaling	0.00851138	-2
Glioma Signaling	0.007413102	-2
Pancreatic Adenocarcinoma Signaling	0.006025596	-2
Melanocyte Development and Pigmentation Signaling	0.003630781	-2
VEGF Family Ligand-Receptor Interactions	0.002818383	-2
PEDF Signaling	0.002041738	-2
IL-7 Signaling Pathway	0.001862087	-2
Reelin Signaling in Neurons	0.00128825	-2
Thrombopoietin Signaling	0.000954993	-2
Estrogen Biosynthesis	2.45471E-05	-2
α -linolenate Biosynthesis II (Animals)	1.65959E-05	-2
Mitochondrial L-carnitine Shuttle Pathway	9.54993E-06	-2
Fatty Acid Activation	6.16595E-06	-2
Estrogen-Dependent Breast Cancer Signaling	8.51138E-07	-2

Ingenuity Canonical Pathways	P-value	z-score
Hepatic Fibrosis Signaling Pathway	1.65959E-06	-1.941
AMPK Signaling	2.69153E-06	-1.897
NF-B Signaling	0.000177828	-1.89
IL-15 Production	1.47911E-05	-1.89
Fatty Acid β -oxidation I	5.7544E-10	-1.89
Insulin Secretion Signaling Pathway	0.008128305	-1.633
cAMP-mediated signaling	0.004265795	-1.633
Adrenomedullin signaling pathway	0.002290868	-1.633
Xenobiotic Metabolism CAR Signaling Pathway	0.001513561	-1.633
FGF Signaling	2.39883E-05	-1.633
Leptin Signaling in Obesity	7.76247E-07	-1.633
Oxidative Ethanol Degradation III	4.46684E-08	-1.633
Erythropoietin Signaling Pathway	0.006456542	-1.342
Tec Kinase Signaling	0.006025596	-1.342
Fc Epsilon RI Signaling	0.00128825	-1.342
Nitric Oxide Signaling in the Cardiovascular System	0.000831764	-1.342
Acute Myeloid Leukemia Signaling	0.000338844	-1.342
Gai Signaling	0.000194984	-1.342
Stearate Biosynthesis I (Animals)	5.62341E-05	-1.342
Fatty Acid α -oxidation	3.38844E-07	-1.342
IL-9 Signaling	6.60693E-08	-1.342
Osteoarthritis Pathway	3.31131E-08	-1.265
PPAR α /RXR α Activation	0.00030903	-1.134

Ingenuity Canonical Pathways	P-value	z-score
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	0.000295121	-1.134
White Adipose Tissue Browning Pathway	4.2658E-05	-1.134
LXR/RXR Activation	1.20226E-08	-1.134
Leukocyte Extravasation Signaling	0.041686938	-1
B Cell Receptor Signaling	0.036307805	-1
eNOS Signaling	0.02630268	-1
HOTAIR Regulatory Pathway	0.021379621	-1
Coronavirus Pathogenesis Pathway	0.016982437	-1
P2Y Purigenic Receptor Signaling Pathway	0.012302688	-1
MSP-RON Signaling In Macrophages Pathway	0.007079458	-1
Role of MAPK Signaling in Promoting the Pathogenesis of Influenza	0.006456542	-1
PDGF Signaling	0.003090295	-1
Role of MAPK Signaling in Inhibiting the Pathogenesis of Influenza	0.001698244	-1
MIF Regulation of Innate Immunity	0.00020893	-1
Apelin Pancreas Signaling Pathway	0.00020893	-1
Dopamine Degradation	0.000190546	-1
MIF-mediated Glucocorticoid Regulation	8.70964E-05	-1
Tryptophan Degradation X (Mammalian, via Tryptamine)	7.76247E-05	-1
Putrescine Degradation III	6.0256E-05	-1
The Visual Cycle	5.37032E-05	-1
Histamine Degradation	4.67735E-05	-1
IGF-1 Signaling	6.91831E-05	-0.816
Apelin Adipocyte Signaling Pathway	1.62181E-05	-0.816

Ingenuity Canonical Pathways	P-value	z-score
Growth Hormone Signaling	9.54993E-06	-0.816
Triacylglycerol Biosynthesis	1.69824E-06	-0.816
Type II Diabetes Mellitus Signaling	7.94328E-10	-0.816
STAT3 Pathway	3.16228E-06	-0.707
JAK/Stat Signaling	0.000177828	-0.447
Phosphatidylglycerol Biosynthesis II (Non-plastidic)	5.24807E-06	-0.447
CDP-diacylglycerol Biosynthesis I	2.23872E-06	-0.447
Insulin Receptor Signaling	4.67735E-05	-0.378
PPAR Signaling	0.004897788	1
PTEN Signaling	0.002137962	1
Endocannabinoid Cancer Inhibition Pathway	0.003019952	2.236

Supplementary Table 12 Results of diseases and functions analysis based on 162 lipid metabolism-related DEGs

Category	p-value	Category	p-value
Lipid Metabolism	5.58E-74-7.7E-10	Organ Morphology	9.45E-19-6.88E-10
Small Molecule Biochemistry	5.58E-74-9.67E-10	Hepatic System Development and Function	1.55E-18-2.67E-11
Molecular Transport	1.3E-59-7.7E-10	Renal and Urological Disease	2.52E-18-3.99E-10
Vitamin and Mineral Metabolism	7.91E-43-3.59E-10	Cellular Movement	2.69E-18-8.15E-10
Energy Production	1.37E-39-2.1E-10	Reproductive System Disease	3.25E-18-4.27E-10
Metabolic Disease	1.49E-38-5.5E-10	Immune Cell Trafficking	2.36E-17-8.77E-10
Organismal Injury and Abnormalities	1.49E-38-9.96E-10	Cell-To-Cell Signaling and Interaction	3.17E-17-6.38E-10
Carbohydrate Metabolism	2.8E-38-9.67E-10	Organismal Functions	3.65E-16-5.69E-10
Endocrine System Disorders	3.09E-29-9.96E-10	Neurological Disease	4.83E-16-9.15E-10
Gastrointestinal Disease	3.09E-29-7.22E-10	Organ Development	8.16E-16-5.56E-10
Organismal Development	1.44E-28-9.14E-10	Skeletal and Muscular System Development and Function	8.16E-16-7.44E-10
Hepatic System Disease	3.85E-28-5.5E-10	Inflammatory Disease	1.33E-15-7.91E-12
Connective Tissue Development and Function	1.08E-25-8.99E-10	Organismal Survival	4.05E-15-9.24E-12
Tissue Morphology	1.08E-25-9.11E-10	Drug Metabolism	5.06E-15-8.79E-12
Protein Synthesis	9.92E-25-3.29E-10	Hematological System Development and Function	2.02E-14-8.77E-10
Cancer	1.96E-24-9.96E-10	Reproductive System Development and Function	4.75E-14-5.82E-14
Cellular Function and Maintenance	2.15E-22-3.65E-10	Psychological Disorders	1.79E-13-4.91E-13
Digestive System Development and Function	5.14E-22-9.15E-10	Cell Signaling	3.03E-13-4.77E-10
Cardiovascular System Development and Function	6.13E-22-9.92E-10	Nucleic Acid Metabolism	3.03E-13-3.92E-10
Endocrine System Development and Function	7.18E-22-8.79E-12	Infectious Diseases	3.66E-13-3.66E-13
Tissue Development	1.03E-21-9.92E-10	Protein Trafficking	5.83E-13-5.83E-13
Nutritional Disease	5.84E-21-1.34E-11	DNA Replication, Recombination, and Repair	9.63E-13-9.63E-13
Cell Morphology	1.04E-20-4.17E-10	Respiratory System Development and Function	1.57E-12-1.97E-10

Category	p-value	Category	p-value
Cell Death and Survival	1.57E-20-6.94E-10	Tumor Morphology	2.8E-12-8.04E-10
Connective Tissue Disorders	2.13E-20-5.17E-10	Renal and Urological System Development and Function	2.98E-12-4.37E-12
Developmental Disorder	2.13E-20-1.56E-12	Cell Cycle	6.03E-12-2.59E-10
Hereditary Disorder	2.13E-20-1.69E-11	Nervous System Development and Function	6.35E-12-5.99E-11
Immunological Disease	2.13E-20-1.61E-11	Free Radical Scavenging	1.63E-11-4.15E-10
Skeletal and Muscular Disorders	2.13E-20-7.71E-10	Post-Translational Modification	2.32E-11-4.77E-10
Hematological Disease	3.51E-20-3.01E-10	Respiratory Disease	4.47E-11-5.17E-10
Cardiovascular Disease	7.48E-20-8.28E-10	Hair and Skin Development and Function	5.68E-11-5.68E-11
Inflammatory Response	8.07E-20-8.77E-10	Gene Expression	5.84E-11-5.84E-11
Cellular Development	1.23E-19-9.14E-10	Cellular Assembly and Organization	5.19E-10-5.19E-10
Cellular Growth and Proliferation	1.23E-19-9.14E-10	Behavior	9.15E-10-9.15E-10
Embryonic Development	5.72E-19-9.14E-10		

Supplementary Table 13 GO annotation based on 13 candidate prognosis-related lipid metabolism genes

ONTOLOGY	ID	Description	GeneRatio	BgRatio	p.adjust	geneID	Count
BP	GO:0045834	positive regulation of lipid metabolic process	5/13	146/18670	2.11E-05	ABCD2/FGF2/CCDC3/SORBS1/HSD17B13	5
BP	GO:0046890	regulation of lipid biosynthetic process	5/13	198/18670	3.43E-05	ABCD2/GPAM/CCDC3/SORBS1/HSD17B13	5
BP	GO:0019216	regulation of lipid metabolic process	6/13	410/18670	3.43E-05	ABCD2/FGF2/GPAM/CCDC3/SORBS1/HSD17B13	6
BP	GO:0046889	positive regulation of lipid biosynthetic process	4/13	84/18670	4.18E-05	ABCD2/CCDC3/SORBS1/HSD17B13	4
BP	GO:0046486	glycerolipid metabolic process	5/13	414/18670	0.000735175	FGF2/GPAM/FABP4/PCK1/FAM126A	5
BP	GO:1901617	organic hydroxy compound biosynthetic process	4/13	266/18670	0.00274195	FGF2/GPAM/PCK1/PLTP	4
BP	GO:0006641	triglyceride metabolic process	3/13	105/18670	0.004284162	GPAM/FABP4/PCK1	3
BP	GO:0006639	acylglycerol metabolic process	3/13	129/18670	0.005952303	GPAM/FABP4/PCK1	3
BP	GO:0006638	neutral lipid metabolic process	3/13	130/18670	0.005952303	GPAM/FABP4/PCK1	3
BP	GO:0006066	alcohol metabolic process	4/13	370/18670	0.005952303	LEPR/FGF2/GPAM/PCK1	4
BP	GO:0062012	regulation of small molecule metabolic process	4/13	429/18670	0.008116479	LEPR/ABCD2/GPAM/SORBS1	4
BP	GO:0034368	protein-lipid complex remodeling	2/13	28/18670	0.008116479	PLTP/GPIHBP1	2
BP	GO:0034369	plasma lipoprotein particle remodeling	2/13	28/18670	0.008116479	PLTP/GPIHBP1	2
BP	GO:0034367	protein-containing complex remodeling	2/13	29/18670	0.008116479	PLTP/GPIHBP1	2
BP	GO:0046165	alcohol biosynthetic process	3/13	175/18670	0.00910339	FGF2/GPAM/PCK1	3
BP	GO:0006006	glucose metabolic process	3/13	204/18670	0.012230425	LEPR/SORBS1/PCK1	3
BP	GO:0016051	carbohydrate biosynthetic process	3/13	208/18670	0.012230425	LEPR/SORBS1/PCK1	3
BP	GO:0019432	triglyceride biosynthetic process	2/13	41/18670	0.012230425	GPAM/PCK1	2
BP	GO:0046460	neutral lipid biosynthetic process	2/13	43/18670	0.012230425	GPAM/PCK1	2
BP	GO:0046463	acylglycerol biosynthetic process	2/13	43/18670	0.012230425	GPAM/PCK1	2
BP	GO:0044242	cellular lipid catabolic process	3/13	217/18670	0.012230425	ABCD2/FABP4/PCK1	3
BP	GO:0071827	plasma lipoprotein particle organization	2/13	45/18670	0.012515633	PLTP/GPIHBP1	2
BP	GO:0071825	protein-lipid complex subunit organization	2/13	49/18670	0.014198339	PLTP/GPIHBP1	2
BP	GO:0019318	hexose metabolic process	3/13	244/18670	0.015072326	LEPR/SORBS1/PCK1	3
BP	GO:0045017	glycerolipid biosynthetic process	3/13	251/18670	0.015711832	FGF2/GPAM/PCK1	3
BP	GO:0006027	glycosaminoglycan catabolic process	2/13	61/18670	0.018290947	FGF2/SDC1	2

ONTOLOGY	ID	Description	GeneRatio	BgRatio	p.adjust	geneID	Count
BP	GO:0016054	organic acid catabolic process	3/13	275/18670	0.018290947	ABCD2/FGF2/PCK1	3
BP	GO:0046395	carboxylic acid catabolic process	3/13	275/18670	0.018290947	ABCD2/FGF2/PCK1	3
BP	GO:0044262	cellular carbohydrate metabolic process	3/13	282/18670	0.018697182	LEPR/SORBS1/PCK1	3
BP	GO:0006026	aminoglycan catabolic process	2/13	65/18670	0.018697182	FGF2/SDC1	2
BP	GO:0005996	monosaccharide metabolic process	3/13	287/18670	0.018697182	LEPR/SORBS1/PCK1	3
BP	GO:0071356	cellular response to tumor necrosis factor	3/13	291/18670	0.018853098	CCDC3/FABP4/PCK1	3
BP	GO:0060193	positive regulation of lipase activity	2/13	72/18670	0.020072585	FGF2/GPIHBP1	2
BP	GO:0034612	response to tumor necrosis factor	3/13	312/18670	0.020072585	CCDC3/FABP4/PCK1	3
BP	GO:0005977	glycogen metabolic process	2/13	74/18670	0.020072585	LEPR/SORBS1	2
BP	GO:0006073	cellular glucan metabolic process	2/13	75/18670	0.020072585	LEPR/SORBS1	2
BP	GO:0044042	glucan metabolic process	2/13	75/18670	0.020072585	LEPR/SORBS1	2
BP	GO:0046173	polyol biosynthetic process	2/13	75/18670	0.020072585	FGF2/PCK1	2
BP	GO:0006650	glycerophospholipid metabolic process	3/13	319/18670	0.020167263	FGF2/GPAM/FAM126A	3
BP	GO:0016042	lipid catabolic process	3/13	333/18670	0.022203188	ABCD2/FABP4/PCK1	3
BP	GO:0006094	gluconeogenesis	2/13	82/18670	0.022203188	LEPR/PCK1	2
BP	GO:0019319	hexose biosynthetic process	2/13	85/18670	0.023260166	LEPR/PCK1	2
BP	GO:0034637	cellular carbohydrate biosynthetic process	2/13	86/18670	0.023260166	SORBS1/PCK1	2
BP	GO:0006112	energy reserve metabolic process	2/13	87/18670	0.023260166	LEPR/SORBS1	2
BP	GO:0043255	regulation of carbohydrate biosynthetic process	2/13	90/18670	0.023724915	LEPR/SORBS1	2
BP	GO:0046364	monosaccharide biosynthetic process	2/13	91/18670	0.023724915	LEPR/PCK1	2
BP	GO:0042632	cholesterol homeostasis	2/13	96/18670	0.023724915	FABP4/GPIHBP1	2
BP	GO:0001657	ureteric bud development	2/13	97/18670	0.023724915	FGF2/SDC1	2
BP	GO:0051591	response to cAMP	2/13	97/18670	0.023724915	SDC1/PCK1	2
BP	GO:0055092	sterol homeostasis	2/13	97/18670	0.023724915	FABP4/GPIHBP1	2
BP	GO:0120162	positive regulation of cold-induced thermogenesis	2/13	97/18670	0.023724915	LEPR/FABP4	2
BP	GO:0060191	regulation of lipase activity	2/13	98/18670	0.023724915	FGF2/GPIHBP1	2

ONTOLOGY	ID	Description	GeneRatio	BgRatio	p.adjust	geneID	Count
BP	GO:0072163	mesonephric epithelium development	2/13	98/18670	0.023724915	FGF2/SDC1	2
BP	GO:0072164	mesonephric tubule development	2/13	98/18670	0.023724915	FGF2/SDC1	2
BP	GO:0006631	fatty acid metabolic process	3/13	383/18670	0.023724915	ABCD2/GPAM/PCK1	3
BP	GO:0048545	response to steroid hormone	3/13	383/18670	0.023724915	GPAM/SDC1/PCK1	3
BP	GO:0097006	regulation of plasma lipoprotein particle levels	2/13	101/18670	0.024105017	PLTP/GPIHBP1	2
BP	GO:0001823	mesonephros development	2/13	102/18670	0.024153718	FGF2/SDC1	2
BP	GO:0044264	cellular polysaccharide metabolic process	2/13	103/18670	0.024205015	LEPR/SORBS1	2
BP	GO:0001523	retinoid metabolic process	2/13	104/18670	0.024258772	SDC1/GPIHBP1	2
BP	GO:0009062	fatty acid catabolic process	2/13	108/18670	0.025700721	ABCD2/PCK1	2
BP	GO:0016101	diterpenoid metabolic process	2/13	110/18670	0.026215261	SDC1/GPIHBP1	2
BP	GO:0010906	regulation of glucose metabolic process	2/13	112/18670	0.026729216	LEPR/SORBS1	2
BP	GO:0005976	polysaccharide metabolic process	2/13	114/18670	0.027242576	LEPR/SORBS1	2
BP	GO:0006644	phospholipid metabolic process	3/13	430/18670	0.028405927	FGF2/GPAM/FAM126A	3
BP	GO:0006721	terpenoid metabolic process	2/13	120/18670	0.029215035	SDC1/GPIHBP1	2
BP	GO:0044282	small molecule catabolic process	3/13	445/18670	0.030238361	ABCD2/FGF2/PCK1	3
BP	GO:0019751	polyol metabolic process	2/13	124/18670	0.030238361	FGF2/PCK1	2
BP	GO:0042552	myelination	2/13	132/18670	0.032784582	ABCD2/FAM126A	2
BP	GO:0072329	monocarboxylic acid catabolic process	2/13	132/18670	0.032784582	ABCD2/PCK1	2
BP	GO:0007272	ensheathment of neurons	2/13	134/18670	0.032784582	ABCD2/FAM126A	2
BP	GO:0008366	axon ensheathment	2/13	134/18670	0.032784582	ABCD2/FAM126A	2
BP	GO:0046683	response to organophosphorus	2/13	134/18670	0.032784582	SDC1/PCK1	2
BP	GO:0010675	regulation of cellular carbohydrate metabolic process	2/13	137/18670	0.033771672	LEPR/SORBS1	2
BP	GO:0006720	isoprenoid metabolic process	2/13	139/18670	0.034278089	SDC1/GPIHBP1	2
BP	GO:0072073	kidney epithelium development	2/13	140/18670	0.034303846	FGF2/SDC1	2
BP	GO:0062013	positive regulation of small molecule metabolic process	2/13	141/18670	0.034332038	ABCD2/SORBS1	2
BP	GO:0106106	cold-induced thermogenesis	2/13	143/18670	0.034395342	LEPR/FABP4	2

ONTOLOGY	ID	Description	GeneRatio	BgRatio	p.adjust	geneID	Count
BP	GO:0120161	regulation of cold-induced thermogenesis	2/13	143/18670	0.034395342	LEPR/FABP4	2
BP	GO:0051384	response to glucocorticoid	2/13	146/18670	0.035368937	SDC1/PCK1	2
BP	GO:0014074	response to purine-containing compound	2/13	149/18670	0.036344852	SDC1/PCK1	2
BP	GO:0008203	cholesterol metabolic process	2/13	150/18670	0.036372506	LEPR/GPAM	2
BP	GO:0055088	lipid homeostasis	2/13	151/18670	0.036402337	FABP4/GPIHBP1	2
BP	GO:1990845	adaptive thermogenesis	2/13	154/18670	0.037373249	LEPR/FABP4	2
BP	GO:0030203	glycosaminoglycan metabolic process	2/13	160/18670	0.039783582	FGF2/SDC1	2
BP	GO:1902652	secondary alcohol metabolic process	2/13	161/18670	0.03979997	LEPR/GPAM	2
BP	GO:0031960	response to corticosteroid	2/13	162/18670	0.039818656	SDC1/PCK1	2
BP	GO:0016125	sterol metabolic process	2/13	166/18670	0.041275548	LEPR/GPAM	2
BP	GO:0006022	aminoglycan metabolic process	2/13	170/18670	0.042741294	FGF2/SDC1	2
BP	GO:0001659	temperature homeostasis	2/13	173/18670	0.043724316	LEPR/FABP4	2
BP	GO:0046488	phosphatidylinositol metabolic process	2/13	174/18670	0.043729508	FGF2/FAM126A	2
BP	GO:0032000	positive regulation of fatty acid beta-oxidation	1/13	10/18670	0.044774836	ABCD2	1
BP	GO:0033210	leptin-mediated signaling pathway	1/13	10/18670	0.044774836	LEPR	1
BP	GO:0035768	endothelial cell chemotaxis to fibroblast growth factor	1/13	10/18670	0.044774836	FGF2	1
BP	GO:0051006	positive regulation of lipoprotein lipase activity	1/13	10/18670	0.044774836	GPIHBP1	1
BP	GO:0052646	alditol phosphate metabolic process	1/13	10/18670	0.044774836	GPAM	1
BP	GO:1990535	neuron projection maintenance	1/13	10/18670	0.044774836	ABCD2	1
BP	GO:2000544	regulation of endothelial cell chemotaxis to fibroblast growth factor	1/13	10/18670	0.044774836	FGF2	1
BP	GO:1901136	carbohydrate derivative catabolic process	2/13	192/18670	0.046846379	FGF2/SDC1	2
BP	GO:0010986	positive regulation of lipoprotein particle clearance	1/13	11/18670	0.046846379	GPIHBP1	1
BP	GO:0035766	cell chemotaxis to fibroblast growth factor	1/13	11/18670	0.046846379	FGF2	1
BP	GO:0061365	positive regulation of triglyceride lipase activity	1/13	11/18670	0.046846379	GPIHBP1	1
BP	GO:1904847	regulation of cell chemotaxis to fibroblast growth factor	1/13	11/18670	0.046846379	FGF2	1
BP	GO:0006109	regulation of carbohydrate metabolic process	2/13	199/18670	0.049596083	LEPR/SORBS1	2

ONTOLOGY	ID	Description	GeneRatio	BgRatio	p.adjust	geneID	Count
BP	GO:0042659	regulation of cell fate specification	1/13	12/18670	0.04964282	FGF2	1
BP	GO:0071468	cellular response to acidic pH	1/13	12/18670	0.04964282	PCK1	1
CC	GO:0005811	lipid droplet	2/13	81/19717	0.038740172	FABP4/HSD17B13	2
CC	GO:0009897	external side of plasma membrane	3/13	393/19717	0.038740172	LEPR/SDC1/GPIHBP1	3

Supplementary Table 14 KEGG pathway enrichment analysis based on 13 candidate prognosis-related lipid metabolism genes

ID	Description	GeneRatio	BgRatio	P value	p.adjust	qvalue	Gene ID	Count
hsa03320	PPAR signaling pathway	44295.00	76/8101	8.70E-07	3.39E-05	2.84E-05	2167/10580/5105/5360	4
hsa04920	Adipocytokine signaling pathway	44236.00	69/8101	0.002477	0.048294	0.040408	3953/5105	2

Supplementary Table 15 The results of multivariate Cox regression analysis

ID	coef	HR	HR.95L	HR.95H	P value
SDC1	0.218565078	1.24428999	1.013572167	1.527525744	0.036725806
SORBS1	-0.263710941	0.768195561	0.595391443	0.99115368	0.04252889

Supplementary Table 16 Characteristics of BRCA subjects in the self-contained cohort

Feature	Group	Number	t	p-value
fustate	Death	5	1.25	0.4296
	Alive	45		
ER_positive_rate	0%	18	2.5121	0.0273
	1%	1		
	10%	1		
	100%	1		
	20%	2		
	30%	2		
	40%	1		
	55%	1		
	60%	1		
	70%	1		
	80%	7		
	85%	1		
	90%	13		
PR_positive_rate	0%	19	2.8497	0.01286
	1%	1		
	10%	2		
	100%	1		
	15%	1		

Feature	Group	Number	t	p-value
Her-2_status	20%	2	2.5	0.2422
	25%	1		
	30%	3		
	40%	1		
	5%	5		
	60%	2		
	70%	3		
	80%	4		
	90%	4		
	95%	1		
Ki-67_expression	negative	35	3.3061	0.007
	Positive	15		
Ki-67_expression	10%	4	3.3061	0.007
	15%	3		
	20%	25		
	30%	14		
	35%	1		
	40%	12		
	45%	1		
	50%	2		
60%	1			

Feature	Group	Number	t	p-value
Lymph_node_stage	70%	4	4.5392	0.02
	80%	2		
	N0	19		
	N1	15		
	N2	9		
Tumor_size	N3	7	2.8262	0.1057
	T1	21		
	T2	24		
	T3	5		
Age	<60year	45	1.25	0.4296
	>60year	5		
Metastasis	none	23	12.5	0.0508
	yes	27		
Diseased_side	L	24	25	0.0254
	R	26		

Supplementary Table 17 Compounds predicted by CMap analysis to potentially target prognostic genes

Cmap name	Mean	n	Enrichment	p	Specificity	Percent non-null
vorinostat	-0.617	12	-0.617	0	0.2566	83
amitriptyline	0.671	6	0.807	0.00008	0.0097	100
0297417-0002B	-0.804	3	-0.942	0.00028	0.0164	100
Prestwick-559	-0.798	3	-0.937	0.00038	0.0061	100
scriptaid	-0.806	3	-0.909	0.00134	0.0417	100
MG-262	-0.817	3	-0.907	0.00152	0.0787	100
meglumine	0.641	4	0.82	0.00183	0	100
suramin sodium	0.687	4	0.804	0.00277	0	100
cloxacillin	0.624	4	0.793	0.00362	0.0068	100
Prestwick-1103	0.636	4	0.791	0.00372	0.0186	100
fludroxycortide	0.56	5	0.722	0.00378	0	80
captopril	0.45	5	0.721	0.00384	0	80
thiostrepton	-0.681	4	-0.79	0.00398	0.037	100
naftidrofuryl	0.584	4	0.783	0.00412	0	100
dydrogesterone	-0.727	4	-0.786	0.00418	0	100
aciclovir	0.575	6	0.659	0.00465	0.0124	83
econazole	0.489	4	0.771	0.00521	0.0718	75
Prestwick-1082	0.659	3	0.853	0.00605	0.0263	100
kinetin	0.343	4	0.749	0.0076	0	50
vinblastine	0.696	3	0.841	0.00787	0.0387	100
withaferin A	-0.7	4	-0.746	0.00826	0.1148	100
sulconazole	-0.714	4	-0.742	0.00871	0.0197	100
atracurium besilate	0.681	3	0.836	0.00889	0.0173	100

Cmap name	Mean	n	Enrichment	p	Specificity	Percent non-null
rotenone	-0.658	4	-0.74	0.00891	0.0284	100
mephenytoin	0.553	4	0.733	0.00991	0.0237	75
acenocoumarol	0.4	5	0.669	0.01047	0.013	60
guaifenesin	-0.583	6	-0.614	0.01059	0.0258	83
(+)-isoprenaline	0.548	4	0.729	0.01076	0.0052	75
pheneticillin	0.537	4	0.729	0.01082	0.0315	75
guanabenz	0.373	5	0.667	0.01089	0.0769	60
fludrocortisone	0.379	8	0.536	0.01119	0.1706	75
edrophonium chloride	0.475	5	0.664	0.01131	0	60
luteolin	-0.681	4	-0.722	0.01211	0.0571	100
myosmine	0.465	6	0.6	0.01317	0.0611	66
epivincamine	-0.711	4	-0.715	0.01333	0.0402	100
estropipate	0.402	4	0.712	0.01396	0.018	50
tinidazole	-0.494	6	-0.602	0.01398	0	66
minocycline	0.358	5	0.652	0.01416	0.0128	60
cefactor	0.343	4	0.706	0.01556	0.0139	50
flucytosine	-0.716	4	-0.704	0.01585	0.0173	100
16,16-dimethylprostaglandin E2	0.624	3	0.801	0.016	0.0419	100
orlistat	-0.458	5	-0.636	0.01646	0.0058	80
metaraminol	0.334	4	0.7	0.01669	0.0075	50
0317956-0000	-0.383	8	-0.507	0.0198	0.0961	50
etyndiol	0.596	4	0.682	0.02184	0.0559	75
trimethadione	-0.459	4	-0.683	0.02218	0.0238	75

Cmap name	Mean	n	Enrichment	p	Specificity	Percent non-null
fenoterol	0.442	3	0.774	0.02332	0.0315	66
naringenin	0.548	4	0.678	0.02349	0.1596	75
carbachol	-0.589	4	-0.679	0.02371	0.052	75
pralidoxime	0.346	4	0.676	0.02421	0.0567	50
pyridoxine	-0.571	4	-0.674	0.02532	0.0809	75
0225151-0000	-0.713	3	-0.768	0.02574	0.0233	100
hydrastinine	0.356	5	0.611	0.02661	0.028	80
W-13	0.778	2	0.886	0.027	0.0245	100
mycophenolic acid	0.472	3	0.756	0.02854	0.1709	66
danazol	0.358	4	0.664	0.02875	0.0242	75
gliclazide	-0.503	4	-0.656	0.03219	0.12	75
latamoxef	-0.703	3	-0.744	0.03429	0.0345	100
aminocaproic acid	-0.633	3	-0.743	0.03441	0.0408	100
tacrine	0.281	4	0.652	0.03445	0.0126	50
probucol	0.219	6	0.541	0.03593	0.0067	50
thiocolchicoside	-0.521	4	-0.647	0.0367	0.0427	75
sulfapyridine	0.338	4	0.648	0.0368	0.0201	50
testosterone	0.378	5	0.584	0.03861	0.0382	80
nitrofural	-0.347	4	-0.642	0.03945	0.0629	50
arachidonyltrifluoromethane	0.721	2	0.858	0.04088	0.0377	100
TTNPB	0.653	2	0.857	0.04143	0.0311	100
tranlycypromine	-0.407	5	-0.575	0.04147	0.12	80
PF-00539745-00	0.447	3	0.72	0.04319	0.0565	66

Cmap name	Mean	n	Enrichment	p	Specificity	Percent non-null
tacrolimus	0.421	3	0.718	0.04425	0.0828	66
fenbufen	0.211	6	0.524	0.04666	0.0214	50
etiocholanolone	0.369	6	0.522	0.04757	0.3228	66
adenosine phosphate	0.353	4	0.628	0.04776	0.0373	75
bendroflumethiazide	-0.461	6	-0.523	0.04807	0.0862	66
nadide	0.536	4	0.626	0.04882	0.0643	75
CP-944629	0.337	4	0.625	0.04933	0.0154	50

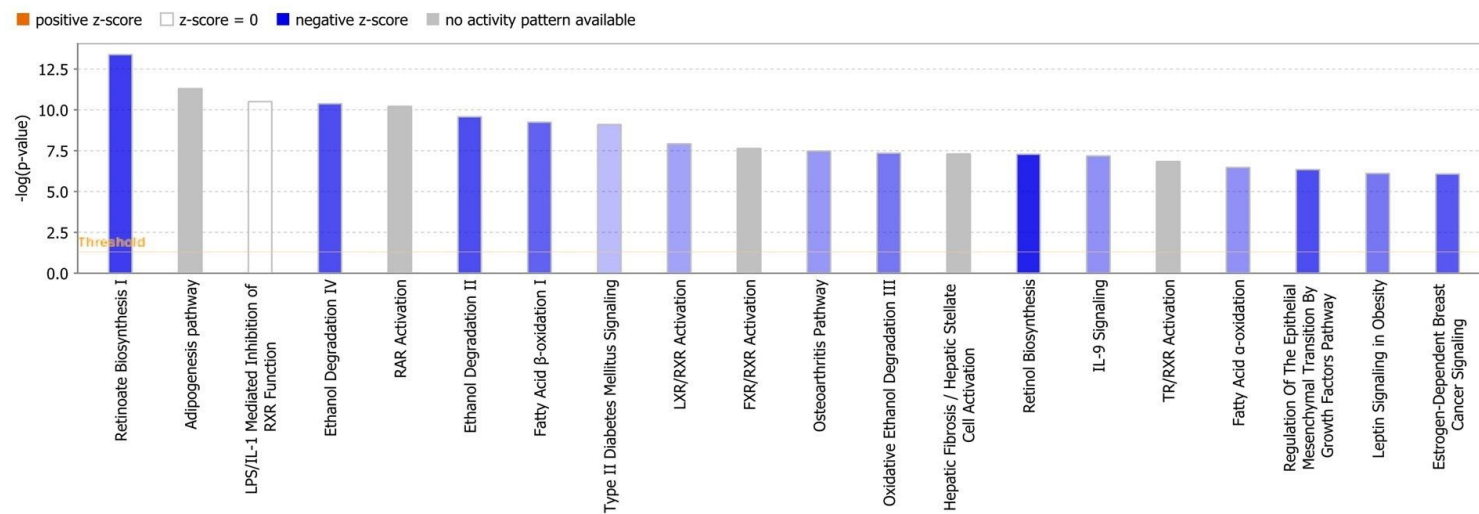
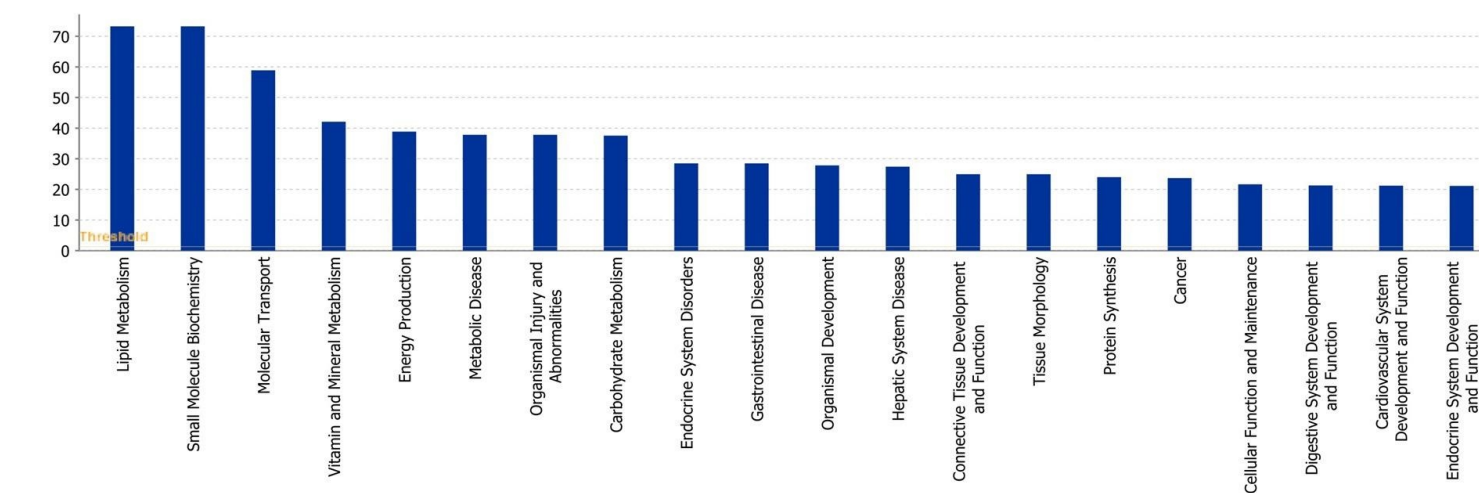
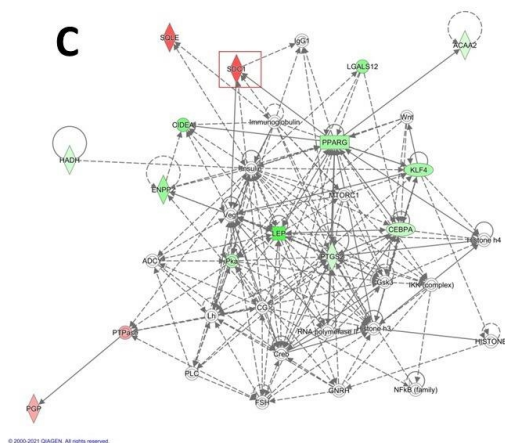
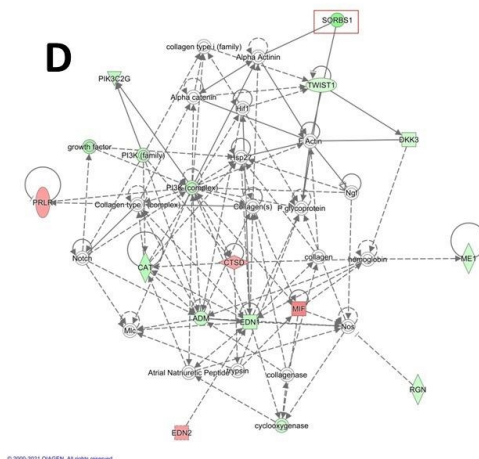
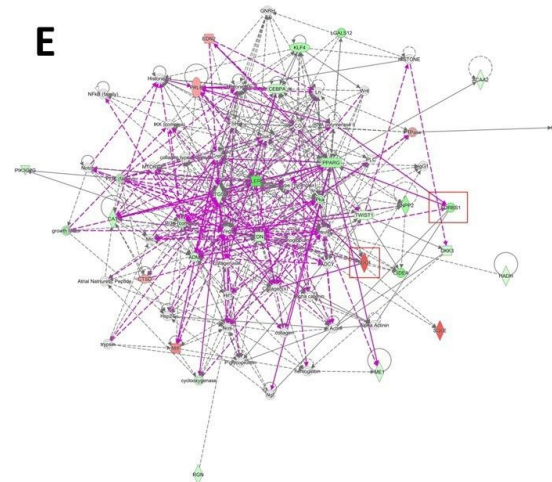
Supplementary Table 18 Prognostic gene-drug interactions predicted using CTD

Chemical Name	Gene Symbol	Interaction Actions
2-methyl-2H-pyrazole-3-carboxylic acid (2-methyl-4-o-tolylazophenyl)amide	SDC1	decreases^expression
2-methyl-2H-pyrazole-3-carboxylic acid (2-methyl-4-o-tolylazophenyl)amide	SDC1	decreases^expression
abrine	SDC1	decreases^expression
Acetaminophen	SDC1	decreases^expression
Acetaminophen	SDC1	increases^expression
Adenine	SDC1	decreases^expression
afimoxifene	SDC1	increases^expression
Aflatoxin B1	SDC1	decreases^expression
Aflatoxin B1	SDC1	increases^expression
Air Pollutants, Occupational	SDC1	decreases^expression
Arsenic Trioxide	SDC1	decreases^expression
Benzo(a)pyrene	SDC1	increases^expression
bisphenol A	SDC1	increases^expression
Calcitriol	SDC1	increases^expression
Camptothecin	SDC1	increases^expression
chloropicrin	SDC1	decreases^expression
Chondroitin Sulfate Proteoglycans	SDC1	increases^expression
Cisplatin	SDC1	increases^expression
Cisplatin	SDC1	decreases^expression
Cisplatin	SDC1	increases^expression
cobaltous chloride	SDC1	decreases^expression
Colchicine	SDC1	decreases^expression
Copper	SDC1	decreases^expression
Copper Sulfate	SDC1	decreases^expression
Cyclosporine	SDC1	decreases^expression

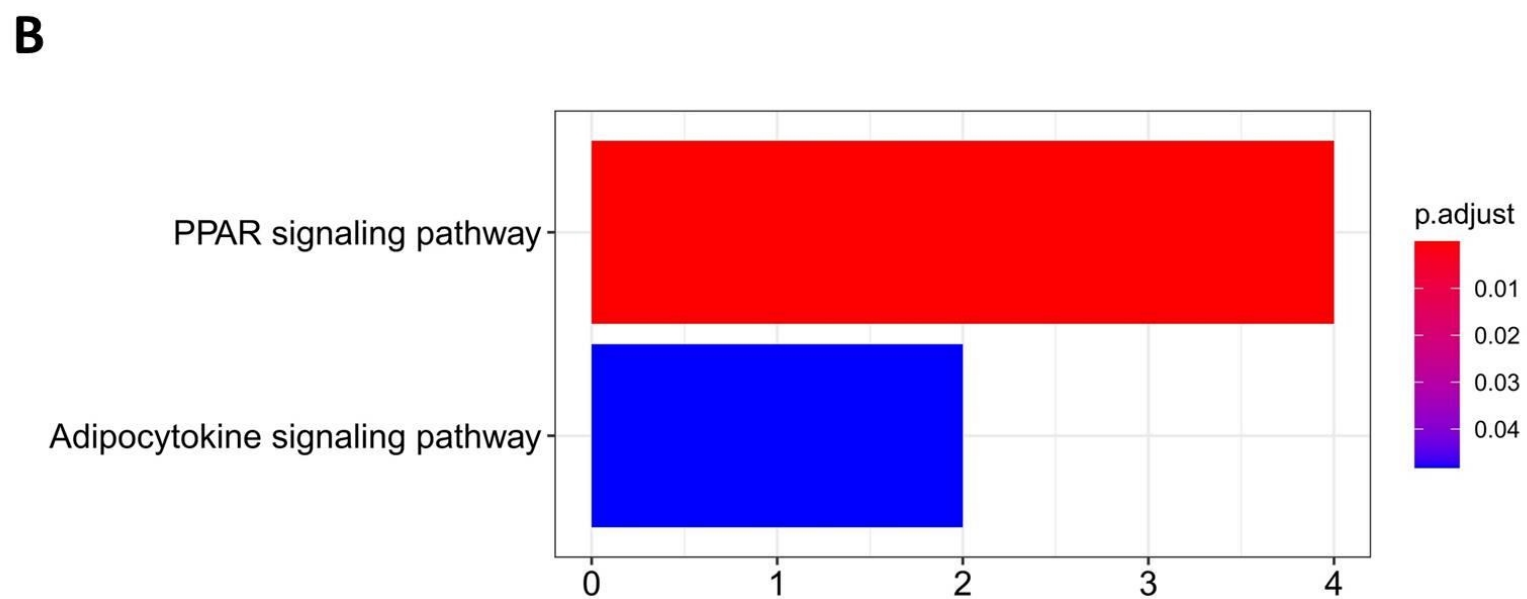
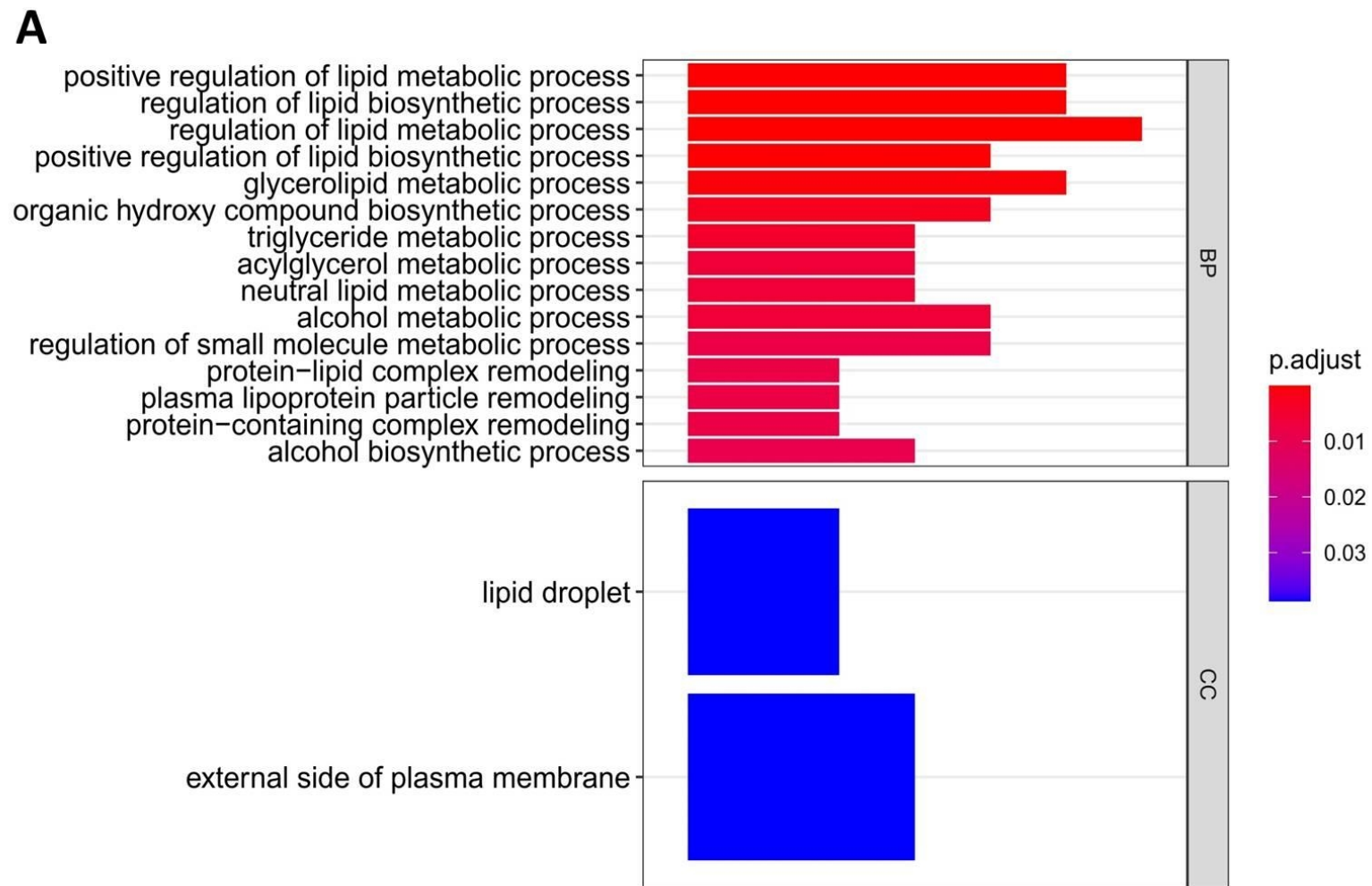
Chemical Name	Gene Symbol	Interaction Actions
Daunorubicin	SDC1	increases^expression
Dexamethasone	SDC1	decreases^expression
Doxorubicin	SDC1	increases^expression
Dust	SDC1	decreases^expression
Ethyl Methanesulfonate	SDC1	increases^expression
Etoposide	SDC1	increases^expression
Formaldehyde	SDC1	increases^expression
GW280264X	SDC1	increases^expression
Heparin	SDC1	decreases^expression
Hydroxychloroquine	SDC1	decreases^expression
jinfukang	SDC1	increases^expression
jinfukang	SDC1	increases^expression
(+)-JQ1 compound	SDC1	decreases^expression
K 7174	SDC1	decreases^expression
Methotrexate	SDC1	decreases^expression
Methyl Methanesulfonate	SDC1	decreases^expression
Methyl Methanesulfonate	SDC1	increases^expression
NSC 689534	SDC1	decreases^expression
obeticholic acid	SDC1	increases^expression
Oxaliplatin	SDC1	increases^expression
Oxygen	SDC1	decreases^expression
Plant Extracts	SDC1	decreases^expression
Progesterone	SDC1	decreases^expression
Smoke	SDC1	decreases^expression
Sulfasalazine	SDC1	decreases^expression

Chemical Name	Gene Symbol	Interaction Actions
Sunitinib	SDC1	decreases^expression
Tetrachlorodibenzodioxin	SDC1	decreases^expression
Tetradecanoylphorbol Acetate	SDC1	decreases^expression
Thimerosal	SDC1	decreases^expression
Tretinoin	SDC1	decreases^expression
Valproic Acid	SDC1	decreases^expression
Zoledronic Acid	SDC1	decreases^expression
1-Methyl-3-isobutylxanthine	SORBS1	increases^expression
1-Methyl-4-phenylpyridinium	SORBS1	decreases^expression
4-(5-benzo(1,3)dioxol-5-yl-4-pyridin-2-yl-1H-imidazol-2-yl)benzamide	SORBS1	increases^expression
abrine	SORBS1	increases^expression
Aflatoxin B1	SORBS1	decreases^expression
Aldehydes	SORBS1	increases^expression
Benzo(a)pyrene	SORBS1	decreases^expression
bisphenol A	SORBS1	increases^expression
butyraldehyde	SORBS1	increases^expression
Cisplatin	SORBS1	increases^expression
clothianidin	SORBS1	increases^expression
cupric chloride	SORBS1	decreases^expression
Cyclosporine	SORBS1	decreases^expression
Decitabine	SORBS1	decreases^expression
Demecolcine	SORBS1	increases^expression
Dexamethasone	SORBS1	increases^expression
Dexamethasone	SORBS1	increases^expression
dorsomorphin	SORBS1	increases^expression

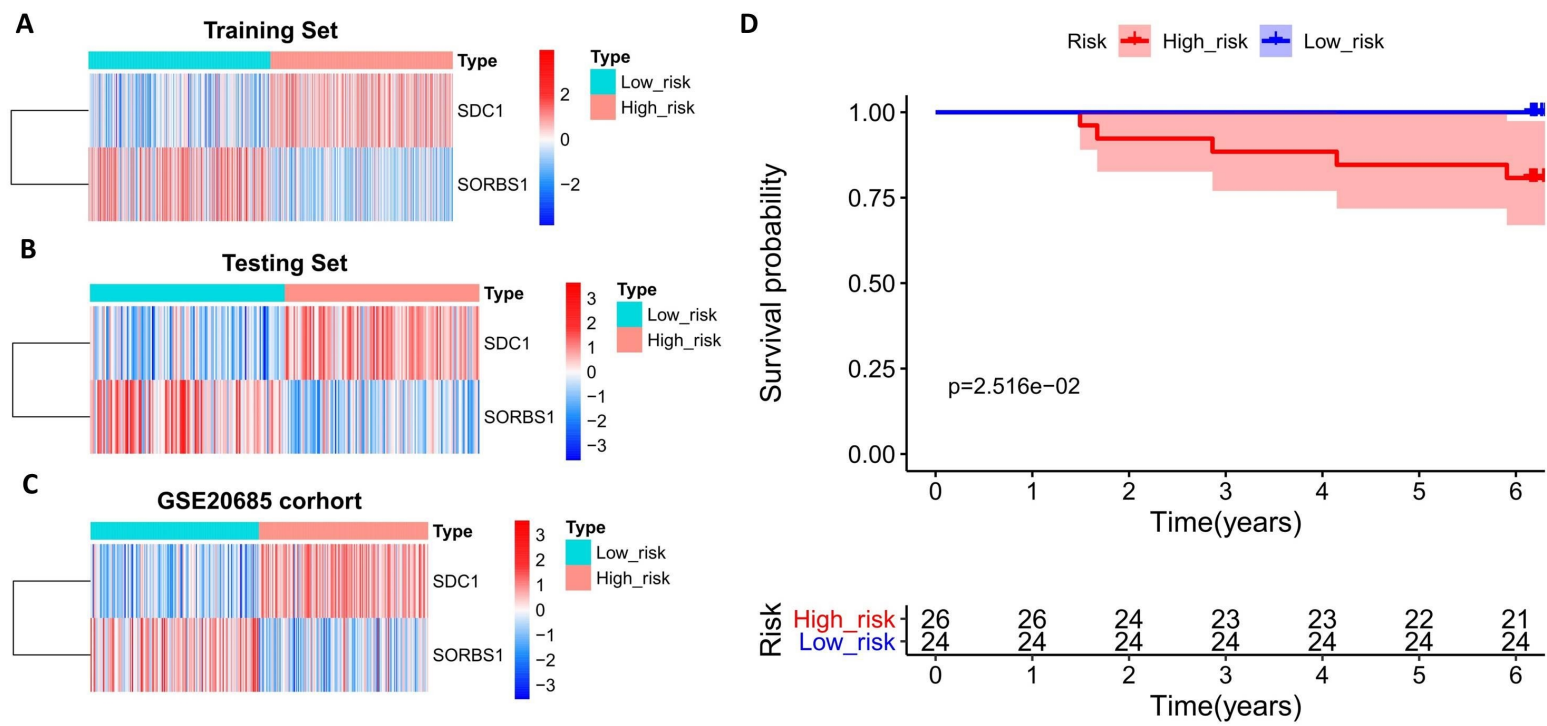
Chemical Name	Gene Symbol	Interaction Actions
Doxorubicin	SORBS1	decreases^expression
Ethyl Methanesulfonate	SORBS1	increases^expression
Formaldehyde	SORBS1	increases^expression
Genistein	SORBS1	increases^expression
incobotulinumtoxinA	SORBS1	decreases^expression
Indomethacin	SORBS1	increases^expression
Isotretinoin	SORBS1	decreases^expression
(+)-JQ1 compound	SORBS1	increases^expression
Lactic Acid	SORBS1	decreases^expression
Methyl Methanesulfonate	SORBS1	increases^expression
methylselenic acid	SORBS1	increases^expression
Nickel	SORBS1	decreases^expression
NSC 689534	SORBS1	increases^expression
pentanal	SORBS1	increases^expression
perfluorooctanoic acid	SORBS1	decreases^expression
Progesterone	SORBS1	increases^expression
propionaldehyde	SORBS1	increases^expression
Rifampin	SORBS1	decreases^expression
Silicon Dioxide	SORBS1	increases^expression
Smoke	SORBS1	decreases^expression
trichostatin A	SORBS1	increases^expression
Triclosan	SORBS1	decreases^expression
tris(1,3-dichloro-2-propyl)phosphate	SORBS1	decreases^expression
Urethane	SORBS1	increases^expression
Valproic Acid	SORBS1	increases^expression
Valproic Acid	SORBS1	increases^expression

A**B****C****D****E**

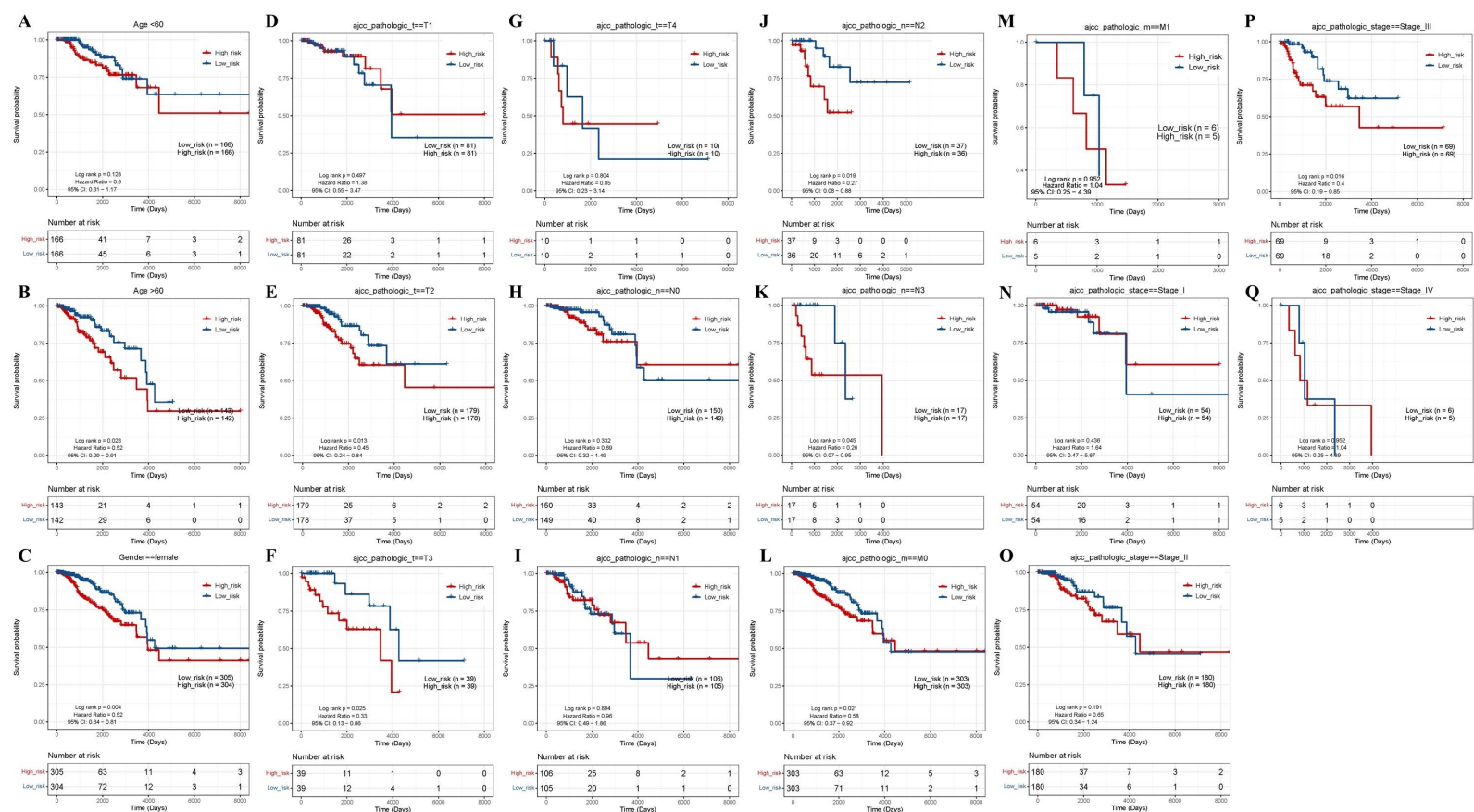
Supplementary Figure 1 Candidate gene validation IPA network analysis (A) TOP20 classic pathways identified by IPA analysis. (B) TOP20 diseases and functional pathways identified by IPA analysis. (C) The IPA analysis of *SDC1*-related interaction network. (D) The IPA analysis of *SORBS1*-related interaction network. (E) The IPA analysis of the interaction network between *SCD1* and *SORBS1*.



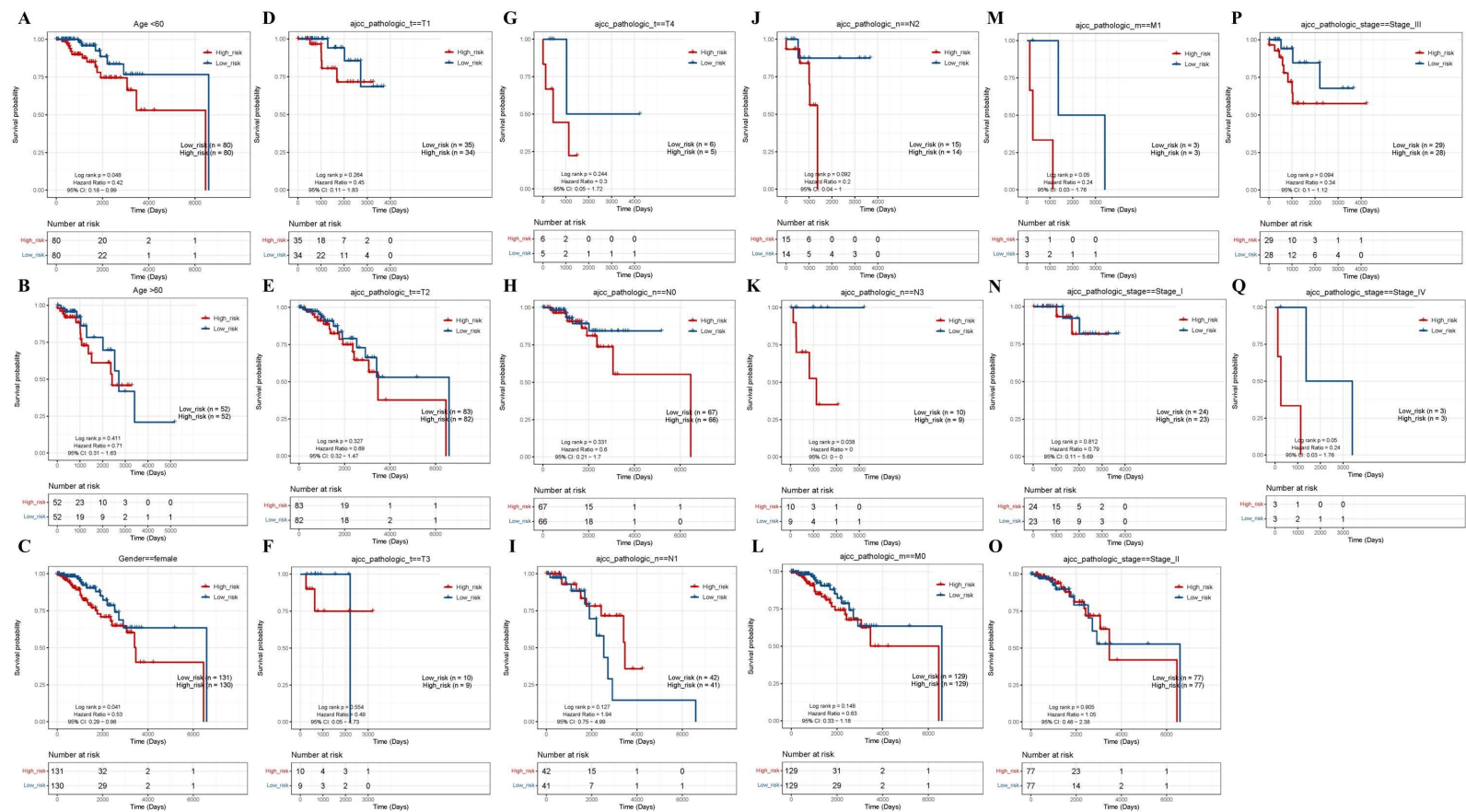
Supplementary Figure 2 GO and KEGG pathway analysis of prognosis-related lipid metabolism genes. (A) TOP15 GO term enrichment analysis of lipid metabolism-related DEGs. The abscissa indicates gene ratio and the enriched pathways were presented in the ordinate. (B) KEGG pathway enrichment analysis of lipid metabolism-related DEGs. The abscissa indicates gene ratio and the enriched pathways were presented in the ordinate. DEGs, differentially expressed genes; TCGA, The Cancer Genome Atlas; GSE, GEO Series; GO, Gene Ontology; KEGG, Kyoto Encyclopedia of Genes and Genomes.



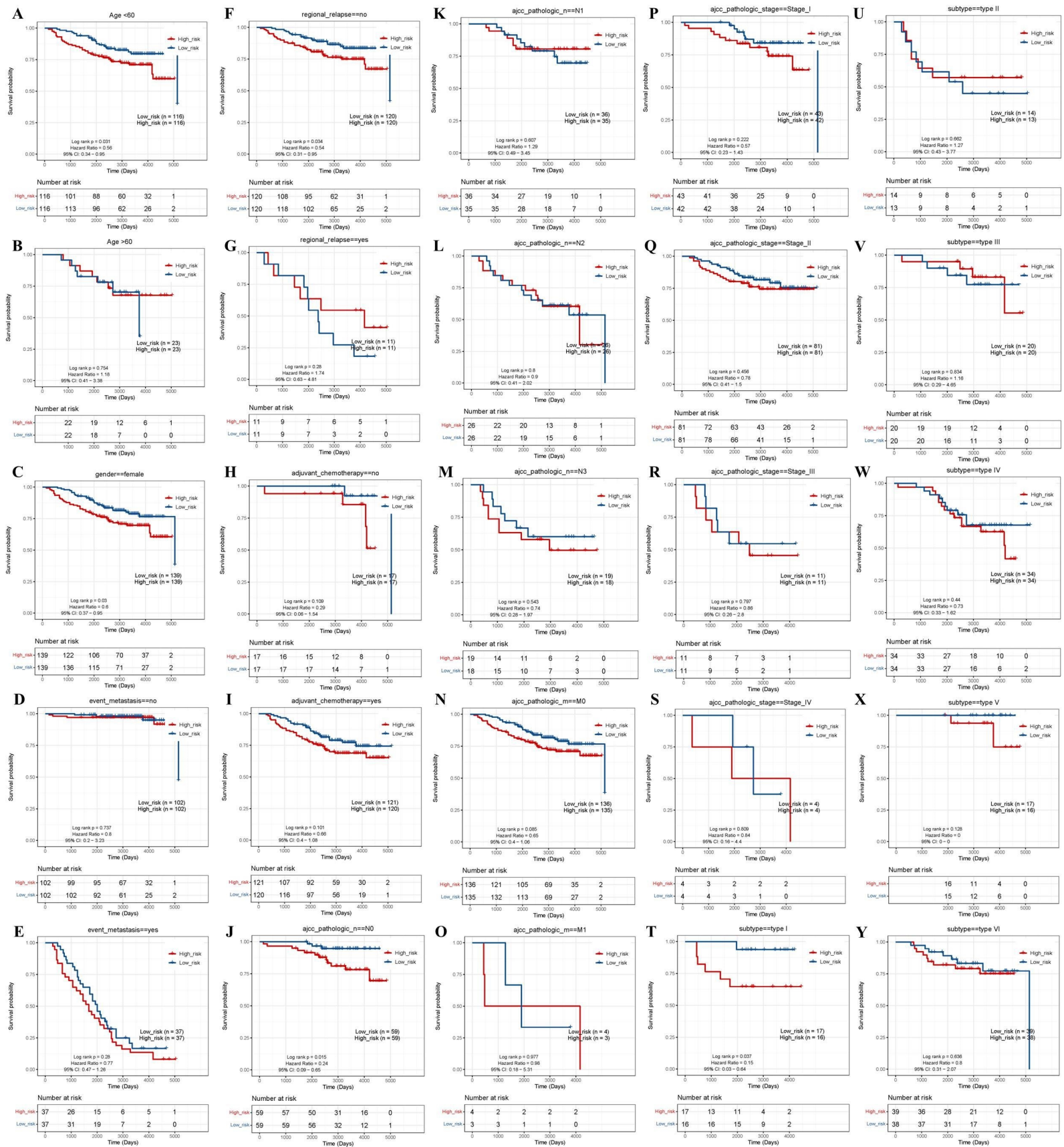
Supplementary Figure 3 Expression heat map of model genes and clinical cases' survival status in high and low risk groups. **(A)** Expression heat map of *SDC1* and *SORBS1* in training set. **(B)** Expression heat map of *SDC1* and *SORBS1* in testing set. **(C)** Expression heat map of *SDC1* and *SORBS1* in GSE20685 authentication set. **(D)** The survival status of high and low risk groups in the 50 clinical cases.



Supplementary Figure 4 KM survival subgroup analysis of TCGA-training set according to the 2-gene signature stratified by clinical characteristics. **(A,B)** The 2-gene signature stratified subgroups defined by whether the patient population was older than 60 using Kaplan-Meier analysis. **(C)** The 2-gene signature stratified subgroups defined by gender using Kaplan-Meier analysis. **(D,E,F,G)** The 2-gene signature stratified subgroups defined by pathologic T-stage using Kaplan-Meier analysis. **(H,I,J,K)** The 2-gene signature stratified subgroups defined by pathologic N-stage using Kaplan-Meier analysis. **(L,M)** The 2-gene signature stratified subgroups defined by pathologic M-stage using Kaplan-Meier analysis. **(N,O,P,Q)** The 2-gene signature stratified subgroups defined by pathologic tumor stage using Kaplan-Meier analysis.



Supplementary Figure 5 KM survival subgroup analysis of TCGA-test set according to the 2-gene signature stratified by clinical characteristics. **(A,B)** The 2-gene signature stratified subgroups defined by whether the patient population was older than 60 using Kaplan-Meier analysis. **(C)** The 2-gene signature stratified subgroups defined by gender using Kaplan-Meier analysis. **(D,E,F,G)** The 2-gene signature stratified subgroups defined by pathologic T-stage using Kaplan-Meier analysis. **(H,I,J,K)** The 2-gene signature stratified subgroups defined by pathologic N-stage using Kaplan-Meier analysis. **(L,M)** The 2-gene signature stratified subgroups defined by pathologic M-stage using Kaplan-Meier analysis. **(N,O,P,Q)** The 2-gene signature stratified subgroups defined by pathologic tumor stage using Kaplan-Meier analysis.



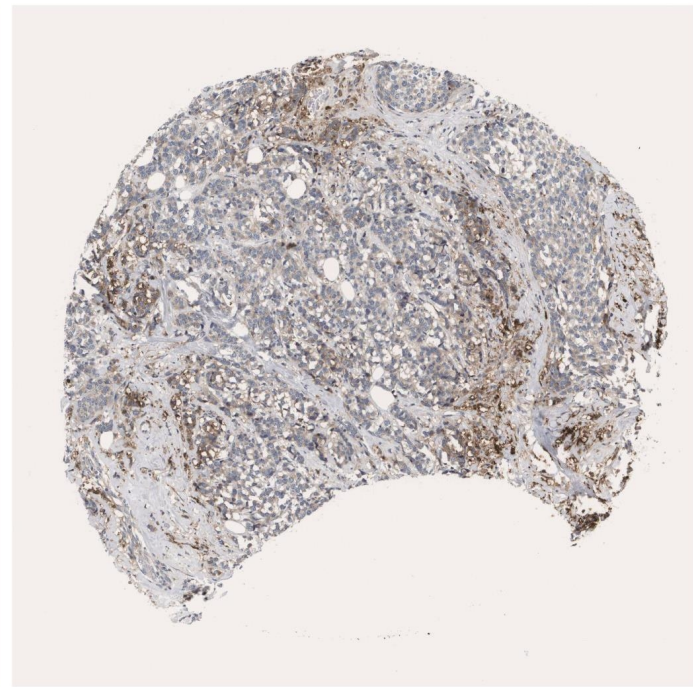
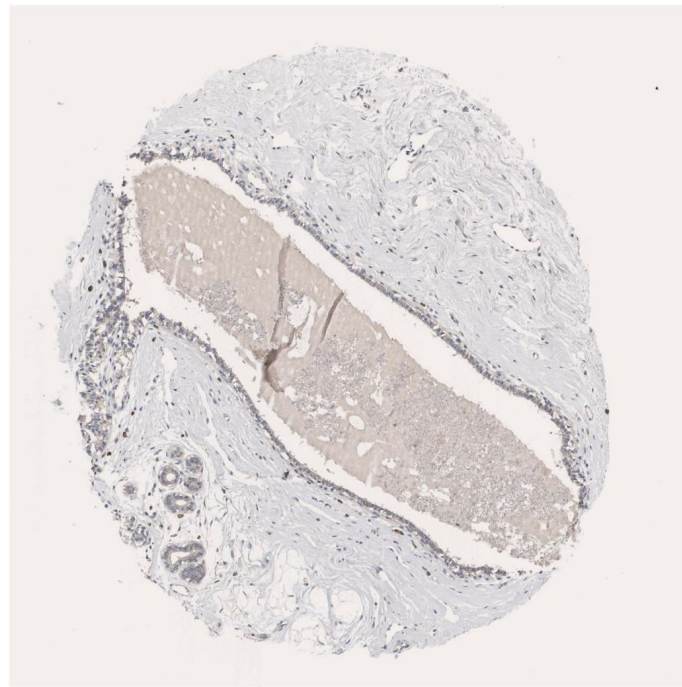
Supplementary Figure 6 KM survival subgroup analysis of independent external validation set according to the 2-gene signature stratified by clinical characteristics. **(A,B)** The 2-gene signature stratified subgroups defined by whether the patient population was older than 60 using Kaplan-Meier analysis. **(C)** The 2-gene signature stratified subgroups defined by gender using Kaplan-Meier analysis. **(D,E)** The 2-gene signature stratified subgroups defined by metastatic events using Kaplan-Meier analysis. **(F,G)** The 2-gene signature stratified subgroups defined by pathologic T-stage using Kaplan-Meier analysis. **(H,I)** The 2-gene signature stratified subgroups defined by regional recurrence using Kaplan-Meier analysis. **(J,K,L,M)** The 2-gene signature stratified subgroups defined by pathologic N-stage using Kaplan-Meier analysis. **(N,O)** The 2-gene signature stratified subgroups defined by pathologic M-stage using Kaplan-Meier analysis. **(P,Q,R,S)** The 2-gene signature stratified subgroups defined by pathologic tumor stage using Kaplan-Meier analysis. **(T,U,V,W,X,Y)** The 2-gene signature stratified subgroups defined by subtype using Kaplan-Meier analysis.

A

Normal

Breast cancer

SDC1



Patient ID: 3544
Sex: Female
Age: 45
Staining: Not detected
Intensity: Weak
Quantity: <25%

Patient ID: 2805
Sex: Female
Age: 59
Staining: Medium
Intensity: Moderate
Quantity: 75%-25%

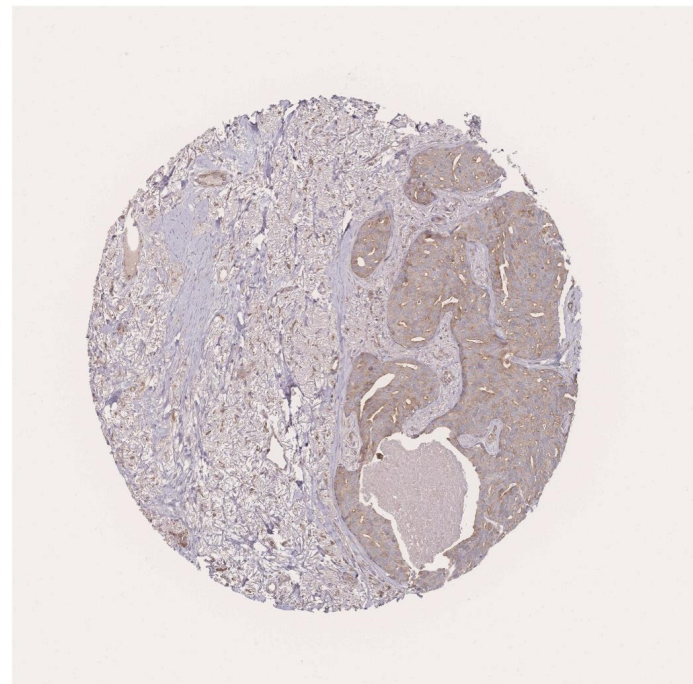
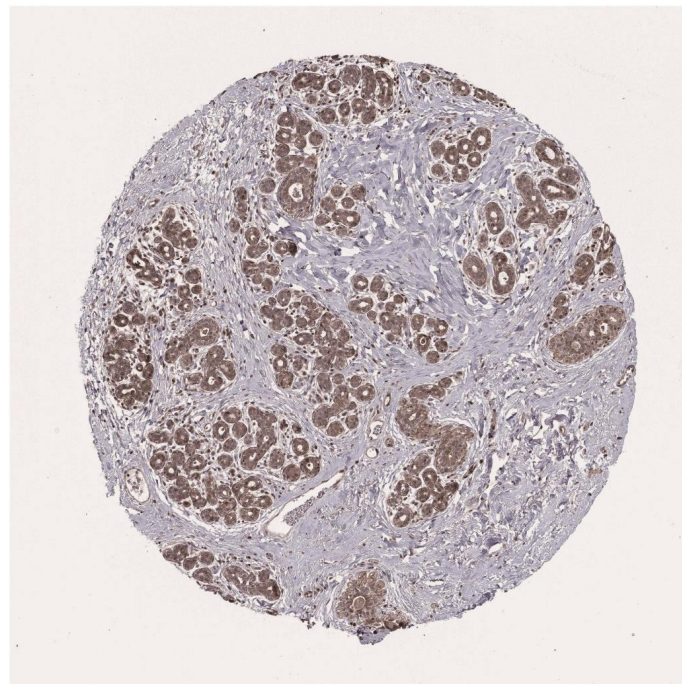
Antibody: HPA006185

B

Normal

Breast cancer

SORBS1

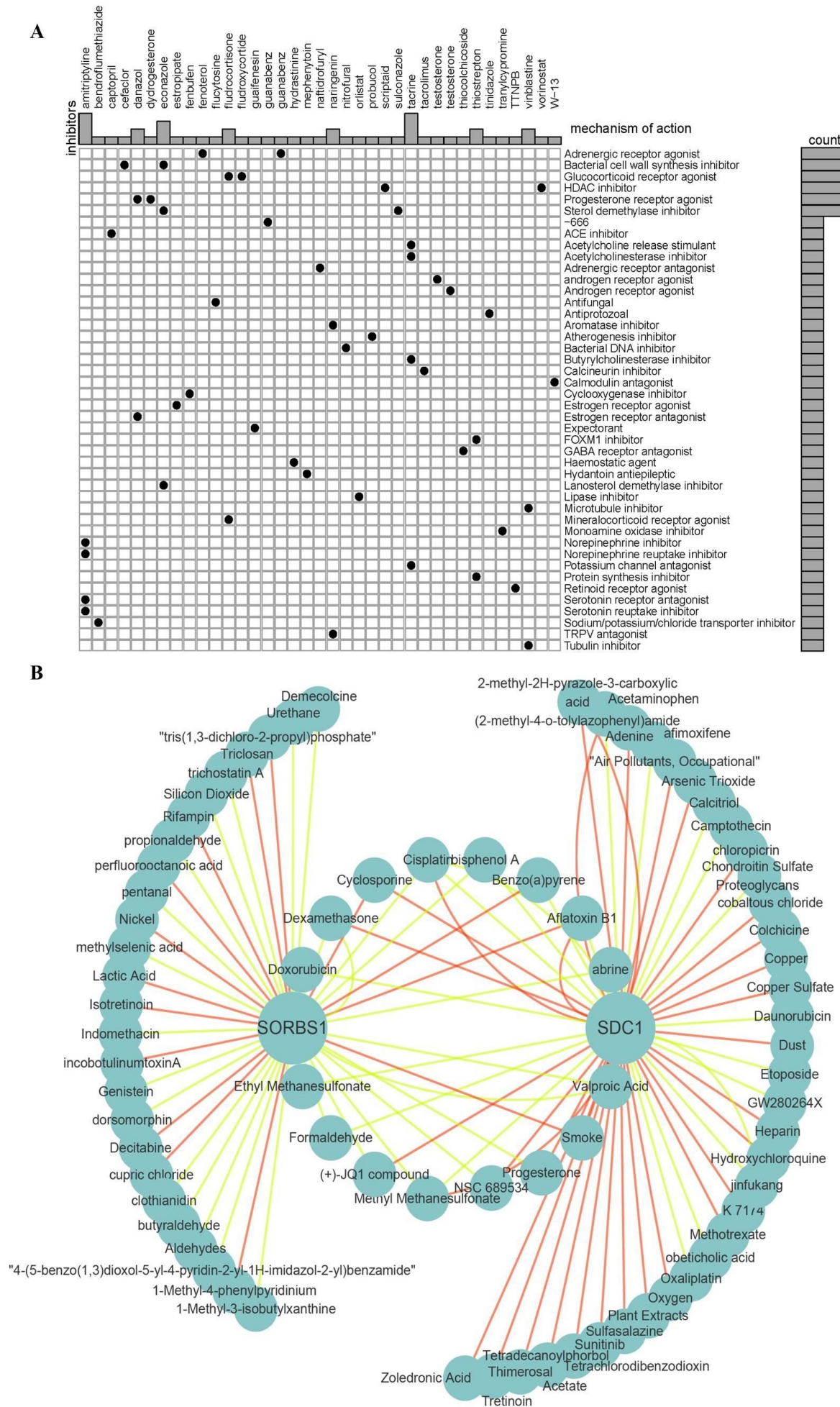


Patient ID: 2104
Sex: Female
Age: 43
Staining: Medium
Intensity: Moderate
Quantity: >75%

Patient ID: 1268
Sex: Female
Age: 54
Staining: Low
Intensity: Weak
Quantity: >75%

Antibody: CAB032850

Supplementary Figure 7 Immunohistochemical results of SDC1 and SORBS1 in BRCA and normal tissues in HPA database. **(A)** Immunohistochemical results of SDC1 in BRCA and normal tissues. **(B)** Immunohistochemical results of SORBS1 in BRCA and normal tissues.



Supplementary Figure 8 MoA analysis results via CMap database and interactions between prognostic genes and drugs used for cancer treatment. **(A)** A heatmap showing each compound (perturbagen) from the CMap that shares a MoA (rows). The compounds in this heatmap have an absolute value of enrichment score 0.5 and might be capable of targeting the metabolism-related signature. Two drugs (fenoterol and guanabenz) have the MoA of Adrenergic receptor agonist; Two drugs (cefaclor and cetergoline) share MoA of Bacterial cell wall synthesis inhibitor; Two drugs (fludrocortisone and fludroxycortide) share the MoA of Glucocorticoid receptor agonist; Two drugs (scriptaid and vorinostat) shared the MoA of HDAC inhibitor. Two drugs (danazol and Dydrogesterone) share the MoA of Progesterone receptor agonist; Two drugs (econazole and fluconazole) shared the MoA of Sterol demethylase inhibitor. **(B)** Red indicates that the drug increases expression of the biomarkers, while green indicates that the drug decreases expression of the biomarkers. CMap, Connectivity Map; MoA, mode of action.