

Figure S1. Elevated FEN1 mRNA expression levels were associated with poor survival in patients with breast cancer. Elevated expression levels of FEN1 were detected in patients who died at (A) 1-year and (B) 5-years following diagnosis, using the Oncomine database.

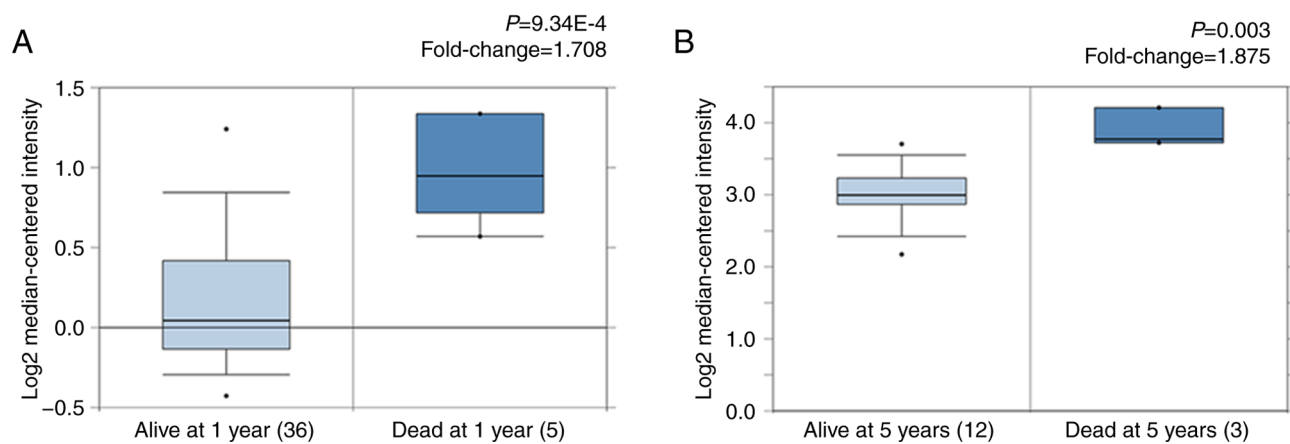


Table SI. Antibodies used in this study.

Antibodies	Catalog no.	Source	Dilution
Anti-Mouse PLK4	sc-100413	Santa	1:250
Anti-Rabbit FEN1 (IHC, IP)	14768-1-AP	Proteintech	1:1000
Anti-Rabbit E-cadherin	3195S	CST	1:1000
Anti-Rabbit Vimentin	5741S	CST	1:1000
Anti-Rabbit ZEB1	4650	CST	1:1000
Anti-Mouse ZEB2	sc-271984	Santa	1:250
Anti-Rabbit Slug	9585	CST	1:1000
Anti-Rabbit snail	3879S	CST	1:1000
Anti-Mouse MMP2	sc-13595	Santa	1:1000
Anti-Rabbit MMP7	3801	CST	1:1000
Anti-Rabbit MMP9	3852S	CST	1:1000
Anti-Rabbit GAPDH	sc-25778	Santa	1:1000
Anti-Mouse FEN1 (IHC, tissue microarray)	sc-28355	Santa	1:200
Anti-Rabbit FEN1 (IHC, xenograft studies)	TA802762	ZSGB-BIO	0.145833
Anti-Mouse IgG, (Secondary Antibody)	ZB-2305	ZSGB-BIO	1:2000
Anti-Rabbit IgG, (Secondary Antibody)	7074S	CST	1:2000

Table SII. Clinicopathological characteristics of 248 patients with breast cancer.

Characteristics	Cases, n (%)	Characteristics	Cases, n (%)
Age (year)		TNM stage	
≤50	107 (43.1)	I	46 (18.5)
>50	141 (56.9)	II	142 (57.3)
Histological grade		III	60 (24.2)
I	24 (9.7)	ER	
II	116 (46.8)	Negative	130 (52.4)
III	48 (19.6)	Positive	118 (47.6)
Non	54 (23.9)	PR	
Tumor size		Negative	120 (48.4)
≤2 cm	82 (33.1)	Positive	128 (51.6)
>2 cm	166 (66.9)	Her-2	
pN stage		Negative	192 (77.4)
N0	112 (45.2)	Positive	56 (22.6)
N1+2+3	136 (54.8)		

Note: ER and PR positive ≥10%, HER-2 positive (IHC3+ or IHC2+, HER2 FISH amplification)

Table SIII. DEGs in mRNA profiles with FEN1-silenced versus control MDA-MB-231 breast cancer cells.

Transcript_id	Gene_name	Gene_location	P-value
ENST00000260184	DDX60L	chr4:168356734-168480514	0.00454661
ENST00000381902	KLRC2	chr12:10412311-10454685	0.00453523
ENST00000607484	UQCC2	chr6:33620364-33711727	0.00453431
ENST00000481385	PHF3	chr6:63635819-65707225	0.00452617
ENST00000623622	ALG13	chrX:111681117-111760649	0.00452591
ENST00000574253	ZNF263	chr16:3263799-3318852	0.00452389
ENST00000541040	ZSCAN2	chr15:84600985-84623717	0.0045218
ENST00000374057	DFNB31	chr9:114402079-114505450	0.00452179
ENST00000335360	SPATA2L	chr16:89680736-89701705	0.00451653
ENST00000481232	GPRC5C	chr17:74424850-74451653	0.00451717
ENST00000431893	SEC16A	chr9:136440096-136483759	0.00451311
ENST00000504170	ZCCHC10	chr5:132996984-133026604	0.00451338
ENST00000455086	ASNS	chr7:97852117-97872542	0.00451125
ENST00000305366	TM4SF1	chr3:149369021-149386583	0.00450109
ENST00000315872	ROCK2	chr2:11179760-11344585	0.00450009
ENST00000380752	SLC7A1	chr13:29509409-29595688	0.00450144
ENST00000258607	CKAP2	chr13:52455428-52476628	0.00449651
ENST00000509539	MCCC2	chr5:71587287-71658704	0.00449439
ENST00000355938	ATP5G1	chr17:48892764-48895871	0.00449183
ENST00000314636	DHFRL1	chr3:94057921-94128545	0.00448486
ENST00000372172	HECTD3	chr1:45002539-45011329	0.00447814
ENST00000532463	CTNND1	chr11:57753242-57819546	0.00447835
ENST00000511032	DHFR	chr5:80626227-80876460	0.00447412
ENST00000437442	ITSN1	chr21:33503930-33931607	0.00447169
ENST00000546285	BCAT1	chr12:24810021-24949459	0.00447086
ENST00000434810	CHEK2	chr22:28687742-28741844	0.00446754
ENST00000395200	MAPK3	chr16:30114104-30123506	0.00446251
ENST00000587857	ZNF568	chr19:36916328-36997932	0.00445978
ENST00000274031	SETD7	chr4:139495940-139606699	0.00444894
ENST00000452774	AOC2	chr17:42844599-42850707	0.00444631
ENST00000491365	WDR6	chr3:48917787-49023495	0.00444034
ENST00000261479	PSMA6	chr14:35278632-35317493	0.00443666
ENST00000559592	RNF111	chr15:58865174-59097419	0.00443616
ENST00000416683	NBEAL2	chr3:46921725-47009703	0.00443385
ENST00000406606	VAV2	chr9:133761893-133992604	0.00443514
ENST00000528845	SIGIRR	chr11:405715-417397	0.00443521
ENST00000537259	SLC24A1	chr15:65611404-65792293	0.00442875
ENST00000626989	PSEN2	chr1:226870183-226896105	0.00442902
ENST00000264670	NSUN2	chr5:6599238-6633291	0.00442605
ENST00000612501	PPP1R9B	chr17:50133734-50150630	0.00441987
ENST00000373509	PIM1	chr6:37170202-37175426	0.00441778

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ENST00000374897	TAP2	chr6:32812762-32838822	0.00440694
ENST00000448097	KDM6B	chr17:7839903-7854796	0.00440445
ENST00000391971	2-Sep	chr2:241227263-241354027	0.0043965
ENST00000435853	SPEG	chr2:219434845-219498287	0.00439653
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ENST00000448866	TBXAS1	chr7:139778247-140020325	0.00438543
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ENST00000526983	EPB41L2	chr6:130839346-131063322	0.00436751
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ENST00000400020	ANKRD12	chr18:9102629-9285985	0.00406937
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ENST00000406256	GDPD3	chr16:30104809-30113856	0.00406778
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ENST00000337565	BCL2L1	chr2:111119377-111168447	0.00404447
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ENST00000531624	SPATA5L1	chr15:45402330-45421419	0.00383843
ENST00000567291	MON1B	chr16:77190834-77435114	0.0038331
ENST00000371470	MAGOH	chr1:53226891-53238610	0.00383045
ENST00000566419	NTAN1	chr16:14974590-15139339	0.00383025
ENST00000529949	ABCB7	chrX:75053171-75156732	0.0038248
ENST00000418000	VGLL4	chr3:11272308-11771350	0.00382584
ENST00000577682	FAM222B	chr17:28755977-28861067	0.00382523
ENST00000455781	MAPK9	chr5:180233142-180292099	0.00382106
ENST00000581894	STARD3	chr17:39637064-39663484	0.00381689
ENST00000290418	CCDC142	chr2:74473789-74494886	0.00381617
ENST00000509418	SMARCD1	chr4:94207610-94291292	0.0038129
ENST00000569956	CDIPT	chr16:29858356-29863736	0.00381177
ENST00000610651	LAIR2	chr19:54497878-54510687	0.00381366
ENST00000492389	CEP41	chr7:130393770-130442433	0.00380902
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ENST00000323851	NDRG1	chr8:133237170-133302022	2.20E-11
ENST00000370902	EXOSC1	chr10:97436141-97446017	2.08E-11
ENST00000560738	IQGAP1	chr15:90388217-90502243	1.50E-11
ENST00000373616	MTCH1	chr6:36968140-36986298	1.14E-11
ENST00000547838	FAM109A	chr12:111360650-111369121	7.43E-12
ENST00000446176	FNBP1	chr9:129887186-130043194	5.81E-12
ENST00000250894	MAPK8IP3	chr16:1706182-1771730	5.87E-12
ENST00000276914	PLIN2	chr9:19115769-19149278	4.96E-12
ENST00000356457	ASPH	chr8:61057157-61714640	1.49E-12
ENST00000301455	ANGPTL4	chr19:7958578-8489114	1.33E-12
ENST00000378330	ANKRD11	chr16:89267626-89490561	1.09E-12
ENST00000585513	IL11	chr19:55364388-55370463	9.07E-13
ENST00000296953	CREBRF	chr5:173056351-173139284	7.91E-13
ENST00000370754	DST	chr6:56457986-56954628	8.26E-13
ENST00000305885	FEN1	chr11:61788962-61867354	6.03E-13
ENST00000329608	CSF1	chr1:109910241-109930992	6.26E-13
ENST00000394510	AKAP13	chr15:85380586-85749358	4.82E-13
ENST00000613205	NUMA1	chr11:71998540-72112780	4.88E-13
ENST00000216117	HMOX1	chr22:35380360-35394214	3.09E-13

ENST00000262965	TCF3	chr19:1609289-1652605	1.32E-13
ENST00000323926	FN1	chr2:215360439-215436172	1.64E-14
ENST00000537739	HDGF	chr1:156742106-156752448	8.66E-15
ENST00000614960	KIF14	chr1:200551496-200620734	3.11E-15
ENST00000418533	LTBP1	chr2:32946971-33399509	2.00E-15
ENST00000586263	NEDD4L	chr18:58044366-58401540	0
ENST00000591601	MKNK2	chr19:2037464-2051244	0
ENST00000361006	GIT2	chr12:109929791-109996389	0
ENST00000252809	GDF15	chr19:18374730-18389176	0
ENST00000244745	SOX4	chr6:21592768-21598619	0
ENST00000005178	PDK4	chr7:95583498-95596491	0
ENST00000372587	EDN2	chr1:41478774-41484671	0
ENST00000354670	BMF	chr15:40087889-40108892	0

Table SIV. The 699 FEN1-related differentially expressed genes (DEGs) in 198 TNBC tumors from GSE76124.

Gene	logFC	P-value
FEN1	1.742863	1.20E-52
BIRC5	2.224118	4.37E-27
KIF2C	1.929258	1.55E-26
STIL	1.88405	2.40E-26
MCM2	1.86522	4.73E-26
CDK1	1.993157	1.45E-25
MCM6	1.416315	1.69E-25
BLM	1.554093	1.71E-25
BUB1	2.698258	6.94E-25
RAD54L	1.288816	7.01E-25
BIRC5	2.346478	1.22E-24
CDC45	1.349874	1.29E-24
CDK1	2.23334	2.16E-24
TTK	2.74903	3.42E-24
GTSE1	1.792486	4.09E-24
NDC80	2.278242	9.35E-24
GTSE1	1.537102	9.53E-24
RRM1	1.292451	2.35E-23
FANCI	1.982853	2.83E-23
FOXM1	2.565428	4.34E-23
CCNB2	2.058868	7.78E-23
DLGAP5	2.580693	8.45E-23
CENPA	2.200066	9.29E-23
KIF11	2.275653	1.12E-22
MELK	2.341054	2.94E-22
RAD51AP1	2.370535	3.95E-22
CHEK1	2.270601	4.82E-22
KIF14	1.563735	1.15E-21
MKI67	1.557312	1.21E-21
MKI67	1.858848	1.86E-21
CENPF	2.513691	1.86E-21
BUB1B	2.18516	1.88E-21
KIF23	2.107763	2.11E-21
EZH2	2.448182	2.16E-21
CENPF	2.162537	2.57E-21
CCNA2	1.844231	2.79E-21
PTTG1	1.849288	3.03E-21
RAD51	1.241978	4.17E-21
OIP5	1.553505	4.35E-21
TYMS	1.95631	4.77E-21
GIN51	2.041544	4.91E-21

SPC25	1.814141	5.85E-21
CCNA2	1.997111	7.78E-21
EXO1	1.31	8.32E-21
NCAPH	1.537868	8.47E-21
ANP32E	2.408779	1.01E-20
RFC4	1.606181	1.13E-20
SMC2	1.576998	1.96E-20
CDC25A	1.490462	2.02E-20
SKP2	1.524525	2.40E-20
CDK1	2.078444	2.74E-20
TOP2A	2.379764	3.12E-20
TRIP13	2.135406	3.19E-20
AURKB	1.395452	4.36E-20
TPX2	2.160041	4.83E-20
TIMELESS	1.137453	6.37E-20
TOP2A	2.38937	8.76E-20
CDC6	1.401539	9.41E-20
MCAM	1.302903	1.22E-19
FANCI	1.50268	1.78E-19
CDC20	2.418996	1.89E-19
NEK2	2.220535	2.15E-19
SMC4	1.928679	2.31E-19
MAD2L1	2.01266	2.55E-19
CENPE	1.684137	3.25E-19
CDC6	1.475047	5.60E-19
WDHD1	1.191568	6.57E-19
STMN1	1.359255	8.54E-19
TMPO	1.382452	8.89E-19
SMC4	1.490231	9.63E-19
MCM7	1.319546	1.06E-18
SPAG5	1.575411	2.39E-18
ESPL1	1.236905	2.39E-18
CHEK1	1.695571	3.34E-18
KIF2C	1.095027	3.51E-18
ZWINT	1.688336	5.16E-18
MKI67	1.806205	5.25E-18
AURKA	1.878477	5.30E-18
CKS1B	1.348426	5.34E-18
DNA2	1.317453	6.53E-18
RFC3	1.332656	6.71E-18
DNAJC9	1.22983	7.13E-18
CHAF1A	1.0048	7.70E-18
CDC7	1.932375	7.90E-18
PLK4	1.28368	1.02E-17

AURKA	1.981564	1.58E-17
POLE2	1.441346	1.89E-17
GGH	1.717648	2.03E-17
TMPO	1.094895	2.19E-17
PCNA	1.111941	2.25E-17
PLK4	1.282339	2.40E-17
CDKN3	1.414083	2.41E-17
MSH2	1.344833	3.05E-17
DKC1	1.050597	5.00E-17
KPNA2	1.359952	6.44E-17
CTPS1	1.626768	1.20E-16
CKS2	1.822264	1.29E-16
DKC1	1.240865	1.55E-16
NASP	1.169486	1.61E-16
PSRC1	1.441602	1.63E-16
SVEP1	-1.87588	1.81E-16
MKI67	1.536123	2.13E-16
CDC25C	1.1629	2.16E-16
HMMR	1.928167	3.22E-16
GMPS	1.216611	3.83E-16
UBE2C	1.726219	4.33E-16
SSX2IP	1.024264	4.61E-16
ABLIM3	-1.24808	5.14E-16
CCNE2	2.160441	6.02E-16
SSX2IP	1.35409	8.16E-16
MGLL	-1.90907	8.46E-16
MSH6	1.014556	1.16E-15
TMEM194A	1.04119	1.31E-15
RRM2	1.847923	1.36E-15
CCNB1	1.85312	1.38E-15
DBF4	1.398097	1.40E-15
RUNX1T1	-1.64964	1.42E-15
DEK	1.00333	1.62E-15
HMMR	1.641223	2.72E-15
CHEK2	1.056016	2.86E-15
DNMT1	1.034088	4.29E-15
MDC1	1.08946	4.82E-15
HTRA1	-1.62196	5.19E-15
ECM2	-2.39812	5.20E-15
HMGB3	1.438617	5.41E-15
ZNF423	-1.57773	6.34E-15
CCNE1	1.380686	7.05E-15
KNTC1	1.162716	7.58E-15
SPARC	-1.72145	8.35E-15

E2F3	1.292901	9.05E-15
OMD	-1.74439	1.06E-14
LRRC17	-2.1695	1.08E-14
NCBP2	1.034538	1.19E-14
USP1	1.065905	1.49E-14
PSIP1	1.051887	1.49E-14
TOPBP1	1.041392	1.59E-14
VWA5A	-1.20086	1.75E-14
CD34	-1.11469	1.76E-14
KIAA0101	1.741265	2.45E-14
MCM7	1.379202	2.80E-14
OMD	-2.10524	2.86E-14
APOD	-3.19074	3.07E-14
SSX2IP	1.29495	3.18E-14
RFC5	1.018085	3.36E-14
RGS5	-1.77844	4.06E-14
WHSC1	1.379835	5.02E-14
SPARCL1	-1.75275	5.15E-14
MCM5	1.116945	5.50E-14
RRM2	1.733267	5.64E-14
TK1	1.387658	5.87E-14
MYBL2	1.013562	6.40E-14
SNRPD1	1.053814	6.59E-14
PAK2	1.190884	7.15E-14
IGFBP4	-1.84405	7.35E-14
HMGB2	1.000914	7.63E-14
RUNX1T1	-2.15624	8.32E-14
COL14A1	-2.6011	8.39E-14
GPSM2	1.306721	9.61E-14
LDB2	-1.91757	9.88E-14
NCAPD2	1.455446	1.47E-13
LAMA2	-1.07004	1.66E-13
RGS5	-1.24238	1.89E-13
MFAP4	-1.715	2.06E-13
SPRY1	-1.80152	2.07E-13
USP1	1.289147	2.10E-13
DDX39A	1.118076	2.45E-13
MXRA8	-1.38822	2.64E-13
ITGB5	-1.44004	2.72E-13
CTSO	-1.11031	2.72E-13
TEK	-1.64269	2.95E-13
MCM4	1.194993	3.60E-13
TSC22D3	-1.26708	3.61E-13
AGTR1	-2.75527	4.18E-13

MAN1C1	-1.28933	4.24E-13
TGFBR2	-1.63942	5.32E-13
SRPK1	1.135115	5.51E-13
LRRC32	-1.19039	6.77E-13
ZCCHC24	-1.63696	6.82E-13
MCM3	1.161368	7.63E-13
LOC100996668	-1.77205	7.71E-13
SLIT3	-1.32761	8.92E-13
SNED1	-1.16667	9.24E-13
BARD1	1.071583	1.03E-12
LMOD1	-1.35481	1.04E-12
BCL11A	1.601722	1.08E-12
LMNB1	1.368566	1.10E-12
AHNAK	-1.04679	1.12E-12
IGFBP6	-1.8792	1.15E-12
ZBTB16	-1.69352	1.23E-12
DCN	-2.30558	1.28E-12
SKP2	1.177759	1.33E-12
JAM3	-1.41262	1.34E-12
AKAP12	-1.9689	1.45E-12
FMOD	-1.6364	1.46E-12
SLIT3	-1.64815	1.56E-12
TFDP1	1.152166	1.58E-12
ZCCHC24	-1.64524	1.62E-12
TBC1D31	1.054586	1.93E-12
NMU	1.657576	2.12E-12
ADRA2A	-2.13381	2.24E-12
LRP1	-1.13584	2.27E-12
NDN	-1.70042	2.36E-12
PAICS	1.126216	2.50E-12
LRP8	1.069973	2.88E-12
PDGFRB	-1.02097	3.18E-12
ASNS	1.479557	3.30E-12
ARHGAP6	-1.50947	3.61E-12
RPS6KA2	-1.2257	3.62E-12
SLIT2	-1.17295	4.25E-12
HNMT	-1.31197	4.27E-12
LAMA2	-1.12725	5.30E-12
LTBP2	-1.09718	5.30E-12
HTR2B	-1.77163	5.41E-12
GPR19	1.307534	5.66E-12
NOLC1	1.067517	5.99E-12
CCL14	-1.63147	6.02E-12
SGCD	-1.00217	6.17E-12

AOC3	-2.18617	6.46E-12
SFRP4	-2.62744	6.63E-12
PIK3R1	-1.33022	7.58E-12
ERG	-1.34448	8.14E-12
UGT8	1.716815	9.03E-12
COX7A1	-1.28909	9.33E-12
NUP210	1.246612	9.91E-12
IGF2	-2.11215	1.08E-11
CPA3	-2.38513	1.09E-11
FBLN1	-1.81007	1.20E-11
GALNT10	-1.0824	1.34E-11
FILIP1L	-1.44645	1.38E-11
RPL39L	1.092329	1.42E-11
UBE2S	1.295357	1.63E-11
HEG1	-1.02854	1.64E-11
MAOA	-2.3601	1.78E-11
DNAJC9	1.048174	1.87E-11
MIR3658	1.025464	1.94E-11
GNG11	-1.70578	2.07E-11
EFEMP2	-1.17299	2.09E-11
SEMA3C	-1.95427	2.29E-11
RNASEH2A	1.139844	2.29E-11
DCN	-2.09783	2.32E-11
FBXL7	-1.16864	2.35E-11
GPR161	1.236933	2.36E-11
RNASE4	-1.42376	2.47E-11
SFRP4	-2.79341	2.58E-11
PDE1A	-1.49787	2.62E-11
CLDN5	-1.41611	2.63E-11
VWF	-1.63757	2.71E-11
CLEC3B	-1.96748	2.96E-11
MMP2	-1.54942	3.04E-11
DCN	-1.85328	3.05E-11
REEP5	-1.07676	3.29E-11
PDE2A	-1.37933	3.77E-11
PTGER3	-1.74875	4.45E-11
ANGPTL2	-1.48962	4.55E-11
SLC46A3	-1.14849	5.01E-11
GIN54	1.074925	5.01E-11
WISP2	-1.8173	5.31E-11
CFD	-2.76339	5.34E-11
EFEMP2	-1.07968	5.60E-11
TPGS2	1.019148	6.20E-11
TMPO	1.20234	7.25E-11

RNASE4	-1.5812	7.62E-11
NAV3	-1.29232	8.11E-11
ABCA8	-3.03663	8.27E-11
LRP8	1.18988	8.47E-11
KCND3	-1.40995	8.70E-11
TXNIP	-1.26853	8.83E-11
AGO2	1.431011	8.85E-11
PTGER3	-1.06871	8.86E-11
LEPR	-2.21007	9.53E-11
DCN	-1.84289	9.64E-11
TSPAN31	-1.11601	9.94E-11
IGF1	-2.69522	1.05E-10
CDKN2A	2.018514	1.07E-10
DHTKD1	1.009958	1.12E-10
ANGPTL2	-1.08573	1.16E-10
DAB2	-1.67875	1.18E-10
RECK	-1.52913	1.23E-10
CES1	-1.56757	1.34E-10
ADIRF	-1.13363	1.37E-10
DAB2	-1.49741	1.41E-10
IL6ST	-1.15607	1.43E-10
SAP30	1.189377	1.54E-10
FRY	-1.40397	1.56E-10
CAV1	-1.55664	1.69E-10
DPT	-1.94639	1.78E-10
FBLN1	-1.49232	1.95E-10
IGF1	-2.90382	2.06E-10
SERPINF1	-1.57182	2.09E-10
CDH5	-1.21655	2.45E-10
PLA2G16	-1.63809	2.79E-10
PPAP2B	-1.21776	2.88E-10
SPON1	-1.87876	3.17E-10
H2AFX	1.072679	3.25E-10
XK	1.696998	3.27E-10
LMO4	1.368153	3.38E-10
IQGAP2	-1.55097	3.45E-10
CTSK	-1.49064	3.49E-10
SEMA5A	-1.29944	3.50E-10
TTF2	1.000498	3.66E-10
ZBED4	1.096609	3.91E-10
DPT	-1.50539	4.01E-10
ADH1B	-3.67201	4.18E-10
TNXA	-1.47809	4.27E-10
TNXA	-1.47969	4.49E-10

GPX3	-2.3328	4.70E-10
TXNIP	-1.17742	4.72E-10
PECAM1	-1.28121	4.96E-10
ADH1B	-3.88107	5.08E-10
MEOX2	-2.08869	5.11E-10
RAD21	1.07943	5.23E-10
PTGER3	-1.40964	5.43E-10
HGF	-1.45999	5.52E-10
IGF1	-1.48611	5.53E-10
KLHL23	1.018368	5.93E-10
PTGER3	-1.02162	6.07E-10
ADH1C	-1.10582	6.17E-10
STS	-1.12521	6.18E-10
ASPA	-1.62266	6.34E-10
FHL1	-2.13612	6.57E-10
DIXDC1	-1.16917	7.41E-10
PTPRN2	-1.42548	8.03E-10
PNPLA4	-1.0024	8.21E-10
RBL1	1.138403	8.61E-10
MFAP5	-1.96793	8.88E-10
FBN1	-1.52037	9.31E-10
CFH	-1.71149	9.37E-10
PCOLCE	-1.18652	9.46E-10
MAOA	-2.27486	1.03E-09
LOC100996668	-1.18002	1.06E-09
TMSB15A	2.290926	1.09E-09
TMEM97	1.19655	1.10E-09
COL3A1	-1.19467	1.11E-09
RANBP1	1.038341	1.12E-09
CD302	-1.34879	1.12E-09
ITGBL1	-1.523	1.22E-09
PLIN1	-2.68376	1.22E-09
TIE1	-1.11515	1.36E-09
CAV1	-1.58679	1.44E-09
PLAT	-1.8245	1.52E-09
TBC1D9	-1.70496	1.59E-09
BLVRB	-1.02175	1.63E-09
ACKR1	-2.17395	1.69E-09
FHL1	-2.02837	1.72E-09
GPX3	-1.94969	1.74E-09
MN1	-1.15811	1.92E-09
SLC2A1	1.205621	2.01E-09
MAB21L1	-1.21364	2.05E-09
AKR1C2	-2.28238	2.07E-09

CXCL12	-1.94467	2.08E-09
TXNIP	-1.21305	2.16E-09
DCLK1	-1.72392	2.34E-09
PAMR1	-1.27561	2.42E-09
MAOA	-1.42642	2.44E-09
SELP	-1.25543	2.46E-09
PPAP2A	-1.11235	2.55E-09
NUAK1	-1.04735	2.57E-09
RCAN2	-1.07005	2.77E-09
ALDH1A2	-1.03029	2.79E-09
NR2F1	-1.33982	2.79E-09
TMSB15A	1.400569	3.18E-09
PPAP2B	-1.17062	3.43E-09
SLC7A5	1.578074	3.45E-09
IMPA2	1.29246	3.60E-09
PPAP2B	-1.17898	3.64E-09
TIMP3	-1.25641	3.77E-09
S1PR1	-1.10711	3.92E-09
CPE	-1.15764	4.00E-09
IL1R1	-1.29622	4.09E-09
LAMA4	-1.24284	4.49E-09
AKR1C3	-2.22148	4.54E-09
DLC1	-1.45123	4.55E-09
IL6ST	-1.09944	4.56E-09
PDGFRL	-1.4106	4.76E-09
SRPX2	-1.09479	4.78E-09
CST3	-1.32344	5.01E-09
AMD1	1.116837	5.04E-09
KCTD12	-1.18391	5.07E-09
PPARG	-1.4804	5.09E-09
CDKN2A	1.159509	5.32E-09
TMEM97	1.206935	5.32E-09
SPON1	-1.697	5.34E-09
GPR116	-1.34901	5.34E-09
ACKR3	-1.5811	5.47E-09
GPR116	-1.04626	5.72E-09
C7	-2.48448	6.55E-09
TCF4	-1.10867	6.65E-09
APOBEC3B	1.966613	6.92E-09
CLIC5	-1.66674	6.96E-09
ZNF165	1.274294	7.23E-09
PCSK5	-1.57052	7.56E-09
AKR1C1	-2.23691	7.73E-09
FSTL1	-1.1148	7.86E-09

FABP4	-2.68013	7.90E-09
TFPI	-1.81293	8.46E-09
CDO1	-2.05219	8.54E-09
FIGF	-1.73469	8.70E-09
DAB2	-1.15822	8.80E-09
PECAM1	-1.13198	8.96E-09
PMP22	-1.14688	9.04E-09
AKR1C2	-2.33087	9.07E-09
DUSP1	-1.29577	9.14E-09
DAB2	-1.18711	9.27E-09
PPAP2A	-1.17612	9.82E-09
TTC28	-1.04938	9.87E-09
LPAR1	-1.317	1.00E-08
SPON1	-1.8889	1.11E-08
EMP1	-1.00704	1.20E-08
TFRC	1.006359	1.33E-08
PIP	-2.74442	1.36E-08
IGF1	-1.24516	1.37E-08
ADIPOQ	-3.56574	1.39E-08
EPAS1	-1.1635	1.45E-08
PECAM1	-1.18581	1.49E-08
CXCL12	-1.23994	1.58E-08
PRAME	1.596991	1.64E-08
NOVA1	-1.70409	1.66E-08
MAF	-1.18317	1.82E-08
PHGDH	1.285234	1.90E-08
CD93	-1.1836	2.02E-08
STXBP1	-1.10653	2.26E-08
CTSV	1.224171	2.27E-08
PRSS23	-1.05759	2.34E-08
TIMP4	-1.83705	2.39E-08
NFE2L3	1.05396	2.55E-08
PROS1	-1.4052	2.80E-08
TFF3	-1.80021	2.90E-08
MYBL1	1.710565	2.91E-08
CILP	-2.06033	3.07E-08
TGFB1I1	-1.14953	3.17E-08
FAH	-1.05734	3.31E-08
DKK3	-1.08507	3.33E-08
EFEMP1	-1.98015	3.35E-08
ZIC1	2.072785	3.37E-08
GSTM5	-1.10255	3.56E-08
BOP1	1.009796	3.62E-08
SSPN	-1.15556	4.02E-08

AR	-1.33621	4.11E-08
EFEMP1	-2.15404	4.15E-08
DPT	-2.19475	4.20E-08
ALDH1A1	-1.43021	4.36E-08
DCLK1	-1.81494	4.52E-08
DKK3	-1.24971	4.60E-08
LIMCH1	-1.26233	4.80E-08
PTGER3	-1.49887	4.86E-08
KIAA1549L	1.143435	4.91E-08
PMAIP1	1.603152	4.92E-08
ANK2	-1.6293	5.11E-08
GAS6	-1.04944	5.39E-08
GULP1	-1.16572	5.43E-08
MAPT	-1.11458	5.54E-08
TCF4	-1.09332	5.74E-08
TP53BP2	1.045561	6.09E-08
KCTD12	-1.16463	6.16E-08
NRTN	1.23234	6.67E-08
MMP7	1.939012	6.70E-08
ARG2	1.068224	7.19E-08
CHN2	-1.10878	7.20E-08
RHOB	-1.16975	7.98E-08
MFAP5	-2.05174	8.07E-08
CD36	-2.59579	8.08E-08
MSANTD3-TMEFF1	1.21961	8.47E-08
GABBR2	2.048003	8.64E-08
CLU	-1.76322	8.66E-08
CLU	-1.81245	8.79E-08
GPD1	-1.545	8.85E-08
KLF5	1.454225	9.48E-08
IRS1	-1.13774	1.02E-07
TCF4	-1.08974	1.07E-07
MEOX1	-1.16322	1.09E-07
FLRT2	-1.51432	1.11E-07
CYP4B1	-1.77605	1.12E-07
FGF7	-1.24697	1.31E-07
NID2	-1.20515	1.36E-07
HMGA1	1.0917	1.38E-07
SEPP1	-1.50899	1.47E-07
THBS4	-1.56185	1.51E-07
F13A1	-1.69264	1.57E-07
KLF9	-1.31635	1.59E-07
MYL9	-1.12662	1.63E-07
TCF4	-1.10848	1.68E-07

ITM2A	-1.35912	1.72E-07
DUSP6	-1.13063	1.74E-07
NAPIL3	-1.14077	1.91E-07
RARRES2	-1.20723	2.01E-07
GPC3	-1.12375	2.09E-07
IL6ST	-1.24894	2.15E-07
C6	-1.44669	2.16E-07
CD36	-2.24614	2.18E-07
PMAIP1	1.222094	2.37E-07
ITSN1	-1.16466	2.39E-07
EPHA3	-1.25376	2.47E-07
PDGFRA	-1.38191	2.66E-07
SNX1	-1.06869	2.82E-07
ISLR	-1.06839	2.95E-07
CPE	-1.45312	3.32E-07
ITGBL1	-1.45893	3.33E-07
TRIL	-1.06005	3.52E-07
GULP1	-1.17312	3.58E-07
PCSK5	-1.42664	3.58E-07
IL6ST	-1.46567	3.71E-07
LIMCH1	-1.34512	3.77E-07
TSPAN7	-1.46762	3.85E-07
THY1	-1.07472	3.86E-07
TNN	-1.21239	4.02E-07
CSRP2	1.046737	4.08E-07
TFPI	-1.28812	4.11E-07
CAV2	-1.33008	4.23E-07
ITM2A	-1.76023	4.34E-07
EMP1	-1.13229	4.35E-07
PCSK5	-1.15445	4.38E-07
FBN1	-1.26807	4.89E-07
EMP1	-1.11066	4.96E-07
ESR1	-2.22246	4.99E-07
SLC7A11	1.134195	5.14E-07
ACTA2	-1.05803	5.18E-07
SOCS2	-1.33176	5.18E-07
SOX4	1.098252	5.23E-07
NQO1	-1.29437	5.56E-07
INPP4B	-1.22948	5.89E-07
CX3CR1	-1.52532	6.57E-07
FHL1	-1.17859	7.01E-07
ACSL1	-1.30714	7.23E-07
NRP1	-1.00925	8.08E-07
PRKX	1.238696	8.48E-07

HSPA4L	1.031601	8.83E-07
FHL1	-1.03512	8.85E-07
TAGLN	-1.31307	9.24E-07
HMGCS2	-1.746	9.61E-07
PRKX	1.058494	9.74E-07
ZEB2	-1.26387	9.99E-07
C4A	-1.6279	1.01E-06
GPR37	1.263737	1.03E-06
DUSP6	-1.11406	1.04E-06
KLF5	1.341206	1.04E-06
CFI	-1.29164	1.14E-06
PCK1	-1.37227	1.25E-06
LEP	-1.77049	1.32E-06
MMRN1	-1.03369	1.32E-06
DSC2	1.403312	1.40E-06
STS	-1.04291	1.52E-06
LHX2	1.458467	1.62E-06
AOX1	-1.60424	1.64E-06
ABAT	-1.3288	1.64E-06
LAPTM4B	1.003743	1.78E-06
ADH1B	-1.70054	1.80E-06
TFPI	-1.30875	1.95E-06
ADAM12	-1.24821	1.98E-06
SERPINB5	1.928451	2.28E-06
LOXL1	-1.01474	2.36E-06
FAP	-1.02265	2.37E-06
LINC01140	-1.49355	2.54E-06
SRPX	-1.4346	2.57E-06
GATM	-1.33877	2.79E-06
FMO5	-1.23263	2.91E-06
PPP1R3C	-1.14117	3.34E-06
TTC28	-1.03391	3.50E-06
METTL7A	-1.20508	3.60E-06
COL1A1	-1.16141	3.65E-06
LAMP3	1.491438	3.87E-06
FMO1	-1.17072	3.89E-06
CHL1	-1.40981	4.15E-06
MYH11	-1.31573	4.22E-06
GBP1	1.048225	4.28E-06
DSC3	1.889376	4.43E-06
KCNJ8	-1.05027	4.46E-06
ACSL1	-1.15413	4.58E-06
IL33	-1.56562	4.67E-06
CBS	1.152716	4.74E-06

ERAP1	-1.13445	4.84E-06
EPB41L3	-1.24662	5.05E-06
IGFBP5	-1.21408	5.07E-06
COL15A1	-1.08932	5.10E-06
PLN	-1.19001	5.23E-06
ZBTB20	-1.05087	5.35E-06
P2RY14	-1.10898	5.72E-06
EPB41L3	-1.09499	5.91E-06
TSPAN8	-1.55829	5.96E-06
COCH	1.278428	6.37E-06
SPOCK1	-1.04898	6.66E-06
EDNRB	-1.48089	7.01E-06
G0S2	-1.41572	7.05E-06
FOSB	-1.54888	7.11E-06
DSC3	1.528275	7.13E-06
C4A	-1.31545	7.46E-06
HBA1	-1.90902	8.07E-06
COL1A1	-1.20941	8.46E-06
MFAP5	-1.46815	8.80E-06
COL5A1	-1.0056	9.00E-06
GABRP	2.415339	9.03E-06
FGFR2	1.214684	9.92E-06
CH25H	-1.02012	1.03E-05
TFF1	-1.68317	1.05E-05
TRIL	-1.0649	1.21E-05
CHRD1	-1.87221	1.34E-05
GBP1	1.081187	1.36E-05
COL5A1	-1.00084	1.38E-05
CNR1	-1.01229	1.71E-05
NAT1	-1.46332	1.71E-05
BICC1	-1.0795	1.72E-05
HBA1	-1.4065	1.75E-05
IDO1	1.400217	1.80E-05
FLI1	-1.04343	1.86E-05
CXCL10	1.431166	1.93E-05
TGFBR3	-1.57755	1.94E-05
SOX11	1.273268	1.95E-05
HBB	-1.68394	2.06E-05
CLCA2	-2.13036	2.40E-05
PLEKHB1	1.227476	2.41E-05
HBB	-1.83869	2.51E-05
FOXA1	-1.54595	2.52E-05
CDH11	-1.00967	2.71E-05
MYRIP	-1.001	3.02E-05

REEP1	-1.18756	3.10E-05
HBA1	-1.26997	3.33E-05
COL6A2	-1.10093	3.47E-05
SRD5A1	1.201397	3.56E-05
RNASE1	-1.00474	3.74E-05
MYH11	-1.14775	3.79E-05
HBA1	-1.1941	3.93E-05
PDZD2	-1.1076	3.96E-05
CP	1.728837	4.39E-05
ADRB2	-1.13859	4.86E-05
ENPP2	-1.26258	5.08E-05
PTGIS	-1.34755	5.42E-05
KIAA1467	-1.00959	5.75E-05
SERHL	-1.24375	5.76E-05
TFPI	-1.15136	5.81E-05
SLC26A3	-1.2139	5.99E-05
IGF2BP3	1.493565	6.61E-05
AZGP1	-1.94879	7.15E-05
GYG2	-1.007	7.40E-05
CA12	-1.15976	7.43E-05
FOS	-1.21929	7.47E-05
HBA1	-1.07561	7.85E-05
CDKN1C	-1.01458	8.04E-05
KIAA0485	-1.02556	8.06E-05
MGP	-1.36711	8.27E-05
SOX11	1.189784	8.64E-05
TPD52	1.094187	9.45E-05
SLC1A1	-1.19462	0.0001
PRSS16	1.064825	0.000103
TMEM158	1.169738	0.000105
CD209	-1.02322	0.000111
CA12	-1.40815	0.000118
PLTP	-1.02489	0.000118
LPL	-1.27725	0.000138
SCGB2A2	-2.31441	0.00014
SOX11	1.235191	0.000143
COMP	-1.48459	0.000153
MRC1	-1.2533	0.000154
IGF2BP3	1.165868	0.000157
ALB	-1.10279	0.000164
MMP1	1.779936	0.000199
FMO2	-1.2149	0.000207
ERBB4	-1.47659	0.000211
CHI3L1	1.426715	0.000211

GHR	-1.454	0.000224
CEACAM6	-1.37741	0.000242
AADAC	-1.11605	0.000247
PROM1	1.8024	0.000272
HPGD	-1.38002	0.000313
GRB14	1.001104	0.000345
CA12	-1.02954	0.000347
CHI3L1	1.452637	0.000371
HIST1H3A	1.11307	0.000377
AGR2	-1.514	0.000389
ALOX15B	-1.12374	0.000401
DSP	1.027982	0.00041
CXCL5	1.357686	0.000419
ENPP2	-1.27493	0.000432
LPL	-1.42767	0.000433
TFAP2B	-1.47874	0.000435
GABBR1	1.314997	0.000436
CEACAM6	-1.36303	0.000441
MMP12	1.683865	0.000493
OLFM1	-1.00892	0.000527
CXADR	1.004032	0.000555
SLC16A7	-1.05889	0.000563
EPCAM	1.020618	0.000571
AQP1	-1.1084	0.000619
GALNT3	1.097969	0.000679
GREB1	-1.03335	0.000686
SOX9	1.004773	0.000699
HPGD	-1.21752	0.000708
SCGB1D2	-1.33754	0.000709
FGFR2	1.157344	0.000772
CYP2B6	-1.26787	0.000786
KRT6B	1.795362	0.000886
SOX10	1.257517	0.000918
CXCL11	1.239847	0.000943
EGR3	-1.06033	0.000973
KRT6A	1.336502	0.001234
GATA3	-1.18098	0.001395
SCNN1A	-1.27124	0.001497
FRZB	-1.03334	0.001547
CXCL11	1.017113	0.001725
S100A2	1.121289	0.001874
GATA3	-1.19367	0.001911
ART3	1.219025	0.001974
TOX3	-1.1132	0.002355

MEST	-1.16174	0.002644
CLDN8	-1.20673	0.002684
TOX3	-1.24531	0.002684
TRIM29	1.082176	0.002715
KRT5	1.228404	0.00294
CXCL13	1.276013	0.003003
GATA3	-1.13204	0.005065
BBOX1	1.012339	0.008157
DHRS2	-1.45476	0.011359
