

Supplementary Table S1.

Gene	Title	Score
PTGS2	prostaglandin-endoperoxide synthase 2 [Source:HGNC Symbol;Acc:HGNC:9605]	-4.798136
S100A1	S100 calcium binding protein A1 [Source:HGNC Symbol;Acc:HGNC:10486]	-4.791465
SOD2	superoxide dismutase 2 [Source:HGNC Symbol;Acc:HGNC:11180]	-4.043826
WNT5A	Wnt family member 5A [Source:HGNC Symbol;Acc:HGNC:12784]	-3.228846
CYBB	cytochrome b-245 beta chain [Source:HGNC Symbol;Acc:HGNC:2578]	-2.828556
HK2	hexokinase 2 [Source:HGNC Symbol;Acc:HGNC:4923]	-2.689266
CFLAR	CASP8 and FADD like apoptosis regulator [Source:HGNC Symbol;Acc:HGNC:1876]	-2.409688
JAK1	Janus kinase 1 [Source:HGNC Symbol;Acc:HGNC:6190]	-2.326097
XBP1	X-box binding protein 1 [Source:HGNC Symbol;Acc:HGNC:12801]	-2.254697
IL6R	interleukin 6 receptor [Source:HGNC Symbol;Acc:HGNC:6019]	-2.229708
NOTCH1	notch receptor 1 [Source:HGNC Symbol;Acc:HGNC:7881]	-2.19651
ZC3H12A	zinc finger CCH-type containing 12A [Source:HGNC Symbol;Acc:HGNC:26259]	-2.18782
AGGF1	angiogenic factor with G-patch and FHA domains 1 [Source:HGNC Symbol;Acc:HGNC:24684]	-2.154218
GHRL	ghrelin and obestatin prepropeptide [Source:HGNC Symbol;Acc:HGNC:18129]	-1.703607
ITGB8	integrin subunit beta 8 [Source:HGNC Symbol;Acc:HGNC:6163]	-1.46311
NRP1	neuropilin 1 [Source:HGNC Symbol;Acc:HGNC:8004]	-1.338356
KIT	KIT proto-oncogene, receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:6342]	-1.287901
PDCL3	phosducin like 3 [Source:HGNC Symbol;Acc:HGNC:28860]	-1.278304
HIPK1	homeodomain interacting protein kinase 1 [Source:HGNC Symbol;Acc:HGNC:19006]	-1.249922
SERPINE1	serpin family E member 1 [Source:HGNC Symbol;Acc:HGNC:8583]	-1.219398
RAPGEF2	Rap guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:16854]	-1.166402
EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	-1.118414
TGFBR2	transforming growth factor beta receptor 2 [Source:HGNC Symbol;Acc:HGNC:11773]	-1.103925
PAK4	p21 (RAC1) activated kinase 4 [Source:HGNC Symbol;Acc:HGNC:16059]	-1.081508
SRPX2	sushi repeat containing protein X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30668]	-1.060884
SMAD1	SMAD family member 1 [Source:HGNC Symbol;Acc:HGNC:6767]	-1.018937
EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	-1.005226
C3AR1	complement C3a receptor 1 [Source:HGNC Symbol;Acc:HGNC:1319]	-0.915103
HDAC7	histone deacetylase 7 [Source:HGNC Symbol;Acc:HGNC:14067]	-0.859571
AQP1	aquaporin 1 (Colton blood group) [Source:HGNC Symbol;Acc:HGNC:633]	-0.834743
PTK2B	protein tyrosine kinase 2 beta [Source:HGNC Symbol;Acc:HGNC:9612]	-0.797913
KLF4	KLF transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	-0.78216
ENG	endoglin [Source:HGNC Symbol;Acc:HGNC:3349]	-0.755928
HIF1A	hypoxia inducible factor 1 subunit alpha [Source:HGNC Symbol;Acc:HGNC:4910]	-0.727883
PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	-0.724163
ERAP1	endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:18173]	-0.701251
HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	-0.6565
ADM	adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]	-0.650301
HSPB6	heat shock protein family B (small) member 6 [Source:HGNC Symbol;Acc:HGNC:26511]	-0.633375
HMGA2	high mobility group AT-hook 2 [Source:HGNC Symbol;Acc:HGNC:5009]	-0.571515
JUP	junction plakoglobin [Source:HGNC Symbol;Acc:HGNC:6207]	-0.569813
BTG1	BTG anti-proliferation factor 1 [Source:HGNC Symbol;Acc:HGNC:1130]	-0.532886
TERT	telomerase reverse transcriptase [Source:HGNC Symbol;Acc:HGNC:11730]	-0.515895
CD40	CD40 molecule [Source:HGNC Symbol;Acc:HGNC:11919]	-0.504138
SASH1	SAM and SH3 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19182]	-0.503938
CYP1B1	cytochrome P450 family 1 subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:2597]	-0.464693
RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]	-0.460672
NFE2L2	NFE2 like bZIP transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:7782]	-0.449504
VEGFC	vascular endothelial growth factor C [Source:HGNC Symbol;Acc:HGNC:12682]	-0.439679
ANXA3	annexin A3 [Source:HGNC Symbol;Acc:HGNC:541]	-0.401073