

SUPPLEMENTARY TABLES

Supplementary Table 1. 52 differentially expressed angiogenesis-related genes.

Gene	log2FC	P-value	FDR	Gene	log2FC	P-value	FDR
VEGFA	0.838496	1.07E-07	2.18E-07	TIE1	0.672592	3.38E-05	5.75E-05
TEK	-0.76866	9.25E-11	2.91E-10	VEGFD	3.201947	1.79E-06	3.32E-06
FLT1	1.027421	2.78E-10	7.97E-10	TGFB1	1.303598	0.00252	0.003692
ANGPT1	1.547875	3.95E-08	8.29E-08	CTNNB1	0.742215	9.98E-12	3.70E-11
ANGPT2	1.734857	2.11E-14	9.50E-14	VEGFB	1.318205	5.30E-05	8.78E-05
THBS1	-1.01657	1.49E-09	3.77E-09	CCM2	0.260836	0.007736	0.01083
VEGFC	0.817592	1.08E-05	1.89E-05	LRP5	0.336904	0.01017	0.013632
PLG	-1.15095	1.74E-19	2.74E-18	TYMP	1.023739	1.52E-06	2.90E-06
FLT4	0.513711	0.007215	0.010331	PTGS2	-1.70841	5.31E-17	3.04E-16
ENG	-0.12314	0.018402	0.02366	ITGAV	1.428586	7.54E-09	1.76E-08
MMP9	2.720729	2.14E-08	4.65E-08	IL1RN	-1.51967	2.19E-11	7.27E-11
KRIT1	0.744827	1.25E-09	3.29E-09	CCL2	-0.70763	5.47E-07	1.08E-06
PDCD10	0.850463	4.09E-17	2.57E-16	PDGFB	1.568964	1.84E-18	2.32E-17
NRP1	0.790259	0.000261	0.000391	EPHB4	0.975849	9.66E-09	2.17E-08
PGF	1.843288	3.66E-13	1.44E-12	PIK3CA	0.305587	0.039747	0.048155
AGGF1	0.794556	1.14E-17	1.19E-16	ITGB1	0.770908	6.33E-05	0.000102
HGF	-1.38493	3.52E-20	7.40E-19	KRAS	0.405084	0.023271	0.028747
PECAM1	1.268413	1.39E-17	1.25E-16	HFE	0.799958	7.17E-09	1.74E-08
DLL4	1.756678	9.02E-22	2.84E-20	TP53	0.73094	5.80E-06	1.04E-05
ADGRB2	3.764124	2.96E-10	8.11E-10	CXCL12	-2.05117	1.08E-24	6.83E-23
ADGRB3	-1.12228	1.90E-17	1.50E-16	AGTR1	-0.82052	2.13E-13	8.96E-13
FZD4	0.436416	0.009991	0.013632	PDGFRB	1.823863	7.33E-17	3.85E-16
ACE	1.63276	1.28E-15	6.21E-15	PON1	-0.83373	1.72E-11	6.01E-11
COL18A1	-0.17402	0.010686	0.014026	NOTCH1	0.824596	0.000101	0.000156
CDH5	0.423801	0.018958	0.023887	VWF	2.050686	2.34E-17	1.64E-16
TGFB2	2.008395	9.02E-05	0.000142	IL1B	-1.06356	2.07E-10	6.22E-10

Supplementary Table 2. 79 angiogenesis-related genes retrieved from the GeneCards (Score >10).

Symbol	Description	Score
VEGFA	Vascular Endothelial Growth Factor A	62.61
TEK	TEK Receptor Tyrosine Kinase	37.41
KDR	Kinase Insert Domain Receptor	36.9
FLT1	Fms Related Receptor Tyrosine Kinase 1	32.35
FGF2	Fibroblast Growth Factor 2	31.09
HIF1A	Hypoxia Inducible Factor 1 Subunit Alpha	29.97
ANGPT1	Angiopoietin 1	27.43
ANGPT2	Angiopoietin 2	23.44
ADGRB1	Adhesion G Protein-Coupled Receptor B1	22.53
THBS1	Thrombospondin 1	21.51

VEGFC	Vascular Endothelial Growth Factor C	19.82
AKT1	AKT Serine/Threonine Kinase 1	19.41
PLG	Plasminogen	19.25
FLT4	Fms Related Receptor Tyrosine Kinase 4	19.19
MMP2	Matrix Metalloproteinase 2	19.16
EPO	Erythropoietin	19.04
ENG	Endoglin	18.94
MMP9	Matrix Metalloproteinase 9	18.79
NOS3	Nitric Oxide Synthase 3	18.74
KRIT1	KRIT1 Ankyrin Repeat Containing	18.52
PDCD10	Programmed Cell Death 10	18.38
NRP1	Neuropilin 1	18.03
SERPINF1	Serpin Family F Member 1	17.75
PGF	Placental Growth Factor	17.72
AGGF1	Angiogenic Factor With G-Patch And FHA Domains 1	17.44
HGF	Hepatocyte Growth Factor	17.07
CXCL8	C-X-C Motif Chemokine Ligand 8	16.89
PECAM1	Platelet And Endothelial Cell Adhesion Molecule 1	16.84
DLL4	Delta Like Canonical Notch Ligand 4	16.84
NDP	Norrin Cystine Knot Growth Factor NDP	16.61
ADGRB2	Adhesion G Protein-Coupled Receptor B2	16.61
ADGRB3	Adhesion G Protein-Coupled Receptor B3	16.16
FZD4	Frizzled Class Receptor 4	15.8
ACE	Angiotensin I Converting Enzyme	15.76
COL18A1	Collagen Type XVIII Alpha 1 Chain	15.48
CDH5	Cadherin 5	15.17
TGFB2	Transforming Growth Factor Beta 2	15.11
SOD2	Superoxide Dismutase 2	15.09
MIR21	MicroRNA 21	14.97
TIE1	Tyrosine Kinase With Immunoglobulin Like And EGF Like Domains 1	14.58
VEGFD	Vascular Endothelial Growth Factor D	14.32
TGFB1	Transforming Growth Factor Beta 1	14.23
CTNNB1	Catenin Beta 1	14.23
VEGFB	Vascular Endothelial Growth Factor B	13.66
CCM2	CCM2 Scaffold Protein	13.57
LRP5	LDL Receptor Related Protein 5	13.28
TIMP2	TIMP Metalloproteinase Inhibitor 2	13.25
TYMP	Thymidine Phosphorylase	13.13
PTGS2	Prostaglandin-Endoperoxide Synthase 2	13.02
ITGAV	Integrin Subunit Alpha V	12.73
TIMP1	TIMP Metalloproteinase Inhibitor 1	12.41
VTN	Vitronectin	12.12
IL1RN	Interleukin 1 Receptor Antagonist	11.82
CCL2	C-C Motif Chemokine Ligand 2	11.78
PDGFB	Platelet Derived Growth Factor Subunit B	11.71
TIMP3	TIMP Metalloproteinase Inhibitor 3	11.52
FGF1	Fibroblast Growth Factor 1	11.52
HPSE	Heparanase	11.44

EPHB4	EPH Receptor B4	11.27
PIK3CA	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Alpha	11.12
ITGB1	Integrin Subunit Beta 1	11.03
FGFR2	Fibroblast Growth Factor Receptor 2	11
CCN2	Cellular Communication Network Factor 2	10.99
KRAS	KRAS Proto-Oncogene, GTPase	10.9
BAIAP2	BAR/IMD Domain Containing Adaptor Protein 2	10.84
HFE	Homeostatic Iron Regulator	10.81
TP53	Tumor Protein P53	10.73
ETS1	ETS Proto-Oncogene 1, Transcription Factor	10.71
CXCL12	C-X-C Motif Chemokine Ligand 12	10.69
AGTR1	Angiotensin II Receptor Type 1	10.63
PDGFRB	Platelet Derived Growth Factor Receptor Beta	10.61
NRP2	Neuropilin 2	10.55
PON1	Paraoxonase 1	10.52
NOTCH1	Notch Receptor 1	10.52
ISM1	Isthmin 1	10.39
VWF	Von Willebrand Factor	10.27
BMP6	Bone Morphogenetic Protein 6	10.27
ITGB3	Integrin Subunit Beta 3	10.22
IL1B	Interleukin 1 Beta	10.09
