Supplementary Table 4. Downregulated genes and functional group allocations

Gene symbol	Gene description	Fold change
Extracellular matrix its remodeling		
COL12A1	Collagen, type XII, alpha 1	−8.5
VTN	Vitronectin	−4.7
EGFL6	EGF-like-domain, multiple 6	−4.5
FSHR	Follicle-stimulating hormone receptor	−4.4
ITGA11	Integrin alpha 11	−3.9
COL11A1	Collagen, type XI, alpha 1	−3.9
EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	−3.5
SMOC2	SPARC related modular calcium-binding 2	−3.2
FBN1	Fibrillin 1	−2.9
FBLN5	Fibulin 5	−2.7
FBN2	Fibrillin 2	−2.1
TNC	Tenascin C	−2.1
Signal transduction		
CLSTN2	Calsyntenin 2	−4.4
DKK1	Dickkopf WNT signaling pathway inhibitor 1	−4.0
GABRA2	Gamma-aminobutyric acid (GABA) A receptor, alpha 2	−4.0
LMO7	LIM domain 7	−3.6
SYT10	Synaptotagmin X	−3.2
PCDHB14	Protocadherin beta 14	−3.2
ANGPT2	Angiopoietin 2	−3.1
ATRNL1	Attractin-like 1	−3.0
GPR158	G protein-coupled receptor 158	−2.8
BDKRB1	Bradykinin receptor B1	−2.7
CDH5	Cadherin 5, type 2 (vascular endothelium)	−2.7
WISP1	WNT1 inducible signaling pathway protein 1	−2.7
RSPO2	R-spondin 2	−2.2
SEMA5A	Sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	−2.2
Transcription factor		
HOXD10	Homeobox D10	−3.6
LMCD1	LIM and cysteine-rich domains 1	−3.0
Cellular metabolism		
CEMIP	Cell migration-inducing protein, hyaluronan binding	−11.9
TYRP1	Tyrosinase-related protein 1	−6.6
FSHR	Follicle-stimulating hormone receptor	−4.4
ARRDC4	Arrestin domain-containing 4	−4.1
AQP1	Aquaporin 1 (Colton blood group)	−4.0
ST6GALNAC5	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5	−3.8
XYLT1	Xylosyltransferase I	−3.7
VGLL3	Vestigial-like family member 3	−3.7
CD34	CD34 molecule	−3.5
ANXA8	Annexin A8	−3.3
TGM2	Transglutaminase 2	−3.3
HTRA1	HtrA serine peptidase 1	−3.3
LMCD1	LIM and cysteine-rich domains 1	−3.0
PTRF	Polymerase I and transcript release factor	−2.8
NEXN	Nexilin (F actin binding protein)	−2.7
CRIM1	Cysteine-rich transmembrane BMP regulator 1 (chordin-like)	−2.6
MME	Membrane metallo-endopeptidase	−2.3

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Supplementary Table 4. Continued

Gene symbol	Gene description	Fold change
Cytokine and immune response		
TXNIP	Thioredoxin-interacting protein	−5.8
IL18	Interleukin 18	−5.6
GDF6	Growth differentiation factor 6	−5.0
FGF7	Fibroblast growth factor 7	−4.8
GFRA1	GDNF family receptor alpha 1	−3.4
LRRC32	Leucine-rich repeat-containing 32	−3.3
SBSPON	Somatomedin B and thrombospondin type 1 domain-containing	−2.8
PDCD1LG2	Programmed cell death 1 ligand 2	−2.7

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