

Supplementary Table 4: Mesenchyme-specific genes within the top 5% genes expressed by human FDC (HK cells)

Annotated genes from mesenchyme-specific clusters 24, 25, 92, 93 and 112		
Gene symbol (mouse)	Gene description	In top 5% genes expressed by human FDC (HK cells)
Acta2	actin, alpha 2, smooth muscle, aorta	yes
Adams12	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 12	no
Ak1	adenylate kinase 1	yes
Ankrd25	ankyrin repeat domain 25	yes
Antxr1	anthrax toxin receptor 1	yes
Atoh8	atonal homolog 8 (Drosophila)	no
Bgn	biglycan	yes
C1qtnf6	C1q and tumor necrosis factor related protein 6	no
Cald1	caldesmon 1	yes
Casp12	caspace 12	no
Ckap4	cytoskeleton-associated protein 4	yes
Cnn3	calponin 3, acidic	yes
Col1a1	procollagen, type I, alpha 1	yes
Col1a2	procollagen, type I, alpha 2	yes
Col3a1	procollagen, type III, alpha 1	yes
Col5a2	procollagen, type V, alpha 2	yes
Col6a1	procollagen, type VI, alpha 1	yes
Col6a2	procollagen, type VI, alpha 2	yes
Col12a1	procollagen, type XII, alpha 1	yes
Copz2	coatamer protein complex, subunit zeta 2	yes
Crtap	cartilage associated protein	yes
Cthrc1	collagen triple helix repeat containing 1	yes
Cyp1b1	cytochrome P450, family 1, subfamily b, polypeptide 1	no
Edg2	endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2	yes
Efnb2	ephrin B2	no
Fbn1	fibrillin 1	yes
Fgfr1	fibroblast growth factor receptor 1	yes
Figf	c-fos induced growth factor	no
Fkbp10	FK506 binding protein 10	no
Fkbp14	FK506 binding protein 14	no
Fstl1	follicle-stimulating-like 1	yes
Fzd1	frizzled homolog 1 (Drosophila)	no
Ggcx	gamma-glutamyl carboxylase	no
Gpc6	glypican 6	no
Gpr124	G protein-coupled receptor 124	no
Gpr153	G protein-coupled receptor 153	no
Gpx7	glutathione peroxidase 7	no
Grb10	growth factor receptor bound protein 10	no
Gulp1	GULP, engulfment adaptor PTB domain containing 1	no
Hhat	hedgehog acyltransferase	no
Hic1	hypermethylated in cancer 1	no
Id3	inhibitor of DNA binding 3	yes
Il6st	interleukin 6 signal transducer	yes
Irx3	Iroquois related homeobox 3 (Drosophila)	no
Kdelc2	KDEL (Lys-Asp-Glu-Leu) containing 2	yes
Lepre1	leprecan 1	no
Leprel2	leprecan-like 2	no
Lgals7	lectin, galactose binding, soluble 7	no
Lima1	LIM domain and actin binding 1	no
Lix1l	Lix1-like	no
Lox	lysyl oxidase	yes
Lrig3	leucine-rich repeats and immunoglobulin-like domains 3	no
Map1lc3a	microtubule-associated protein 1 light chain 3 alpha	no
Mgp	matrix Gla protein	no
Mmp2	matrix metalloproteinase 2	yes
Mrc2	mannose receptor, C type 2	yes
Mrgprf	MAS-related GPR, member F	no
Msx1	homeo box, msh-like 1	no
Mxra8	matrix-remodelling associated 8	no
Oat	ornithine aminotransferase	yes
Pcolce	procollagen C-endopeptidase enhancer protein	yes
Pdgfrb	platelet derived growth factor receptor, beta polypeptide	no
Pkd2	polycystic kidney disease 2	no
Pls3	plastin 3 (T-isoform)	yes
Postn	periostin, osteoblast specific factor	yes
Ppap2a	phosphatidic acid phosphatase 2a	yes
Ppic	peptidylprolyl isomerase C	yes

Prelp	proline arginine-rich end leucine-rich repeat	no
Prkcdbp	protein kinase C, delta binding protein	yes
Prrx1	paired related homeobox 1	yes
Qscn6	quiescin Q6	yes
Rab40b	Rab40b, member RAS oncogene family	no
Rbms3	RNA binding motif, single stranded interacting protein	no
Rcn1	reticulocalbin 1	yes
Rcn3	reticulocalbin 3, EF-hand calcium binding domain	yes
Ror1	receptor tyrosine kinase-like orphan receptor 1	no
Scarf2	scavenger receptor class F, member 2	no
Sdc2	syndecan 2	no
Sec23a	SEC23A (<i>S. cerevisiae</i>)	no
Serpinf1	serine (or cysteine) peptidase inhibitor, clade F, member 1	yes
Serpinh1	serine (or cysteine) peptidase inhibitor, clade H, member 1	no
Sgce	sarcoglycan, epsilon	no
Slc2a10	solute carrier family 2 (facilitated glucose transporter), member 10	no
Slc35a2	solute carrier family 35 (UDP-galactose transporter), member 2	no
Smoc2	SPARC related modular calcium binding 2	no
Sorbs1	sorbin and SH3 domain containing 1	no
Sparc	secreted acidic cysteine rich glycoprotein	yes
Tdrd3	tudor domain containing 3	no
Tgfb1i1	transforming growth factor beta 1 induced transcript 1	yes
Twist1	twist gene homolog 1 (<i>Drosophila</i>)	yes
Zfp449	zinc finger protein 449	no

Total mesenchyme cluster genes on array 91
Total shared in top 5% expressed by HK cells 43
% Shared **47.3**