

**Supplementary Table S4.** Genes enriched in stroma compartment, identified using the limma package in R. The magnitude of enrichment is indicated by the difference in log<sub>2</sub> expression (logFC).

	Symbol	logFC	adj.P.value		Symbol	logFC	adj.P.value		Symbol	logFC	adj.P.value
1	IGJ	-4.93	0.0036	37	SULF1	-2.82	0.0136	73	CD248	-2.35	0.0344
2	DCN	-4.80	0.0036	38	TIMP1	-2.38	0.0136	74	MFAP5	-2.77	0.0345
3	CCL19	-4.08	0.0059	39	BGN	-2.71	0.0141	75	GIMAP5	-2.08	0.0377
4	IL7R	-3.71	0.0066	40	SPARCL1	-3.17	0.0147	76	PDGFRB	-1.93	0.0400
5	LUM	-4.71	0.0066	41	IGHA2	-2.58	0.0155	77	CRISPLD2	-2.51	0.0410
6	MMP2	-3.71	0.0066	42	MXRA5	-2.63	0.0155	78	PIM2	-1.76	0.0425
7	COL1A1	-3.54	0.0079	43	IGK@	-3.68	0.0164	79	CD28	-2.05	0.0425
8	COL6A3	-3.59	0.0079	44	CILP	-2.51	0.0173	80	COL5A2	-2.07	0.0427
9	SFRP2	-4.18	0.0079	45	GPR183	-2.26	0.0179	81	CCR7	-2.06	0.0431
10	IGLJ3	-3.59	0.0080	46	SERPINE1	-2.82	0.0184	82	IGF2	-3.20	0.0439
11	IGHA1	-3.49	0.0080	47	FAM46C	-2.09	0.0185	83	IGF1	-2.93	0.0439
12	CDH11	-3.12	0.0089	48	THY1	-3.00	0.0185	84	CXCR4	-2.12	0.0442
13	IGLV6-57	-2.91	0.0089	49	IGFBP4	-2.43	0.0187	85	PRRX1	-2.14	0.0443
14	IGKV1-5	-3.59	0.0094	50	IGK@	-2.91	0.0187	86	LRP1	-2.54	0.0469
15	VCAN	-3.21	0.0096	51	COL12A1	-2.84	0.0215	87	IGK@	-3.19	0.0477
16	COL1A2	-3.66	0.0101	52	PECAM1	-2.48	0.0215	88	LTBP2	-1.79	0.0479
17	LOC652493	-2.95	0.0101	53	SERPINF1	-2.98	0.0222	89	SPARC	-2.66	0.0482
18	DPT	-2.94	0.0117	54	APOD	-2.39	0.0222	90	F2R	-1.79	0.0482
19	CTSK	-3.26	0.0124	55	PCOLCE	-2.33	0.0236	91	TAGLN	-2.31	0.0482
20	POSTN	-3.41	0.0124	56	IGKC	-2.83	0.0237	92	MRC1	-2.43	0.0482
21	FBN1	-3.15	0.0124	57	IGHA1	-2.77	0.0237	93	MRC1	-2.43	0.0482
22	IGKC	-2.87	0.0124	58	F13A1	-3.19	0.0237	94	FAP	-2.11	0.0482
23	ENPP2	-2.39	0.0124	59	SELPLG	-2.17	0.0246	95	FYN	-2.18	0.0484
24	IGHV4-59	-4.28	0.0124	60	ACTA2	-2.92	0.0255	96	TCF4	-2.18	0.0489
25	LEF1	-2.29	0.0124	61	PRDM1	-2.60	0.0255	97	SELL	-2.41	0.0489
26	AEBP1	-2.71	0.0124	62	IGHM	-3.49	0.0283	98	THBS2	-2.25	0.0489
27	CCL18	-2.99	0.0124	63	LAMA4	-2.29	0.0295	99	SLCO2B1	-2.15	0.0489
28	CXCL12	-3.15	0.0128	64	CORO1A	-2.08	0.0295	100	TSC22D3	-2.11	0.0489
29	SFRP4	-3.59	0.0133	65	GZMK	-2.99	0.0300	101	FLI1	-1.84	0.0489
30	TIMP3	-3.09	0.0136	66	CYTIP	-2.86	0.0300	102	DUSP1	-2.22	0.0493
31	CCDC80	-3.65	0.0136	67	CFH	-2.36	0.0305	103	CD4	-1.96	0.0494
32	SLC40A1	-2.46	0.0136	68	PLAC8	-2.04	0.0307	104	S1PR1	-1.54	0.0494
33	COL3A1	-3.01	0.0136	69	IGKC	-2.96	0.0307	105	ITK	-2.05	0.0494
34	IGHD	-4.16	0.0136	70	WIPF1	-2.20	0.0328	106	CD37	-2.11	0.0494
35	RARRES2	-2.23	0.0136	71	TIMP3	-2.23	0.0332	107	MMP9	-1.86	0.0494
36	PKD4	-3.61	0.0136	72	OLFML2B	-2.18	0.0336				