

Supplementary Table S1. Mean gene expression of HSCs and MFB I–IV.

Gene Name	Resting HSCs	MFB I	MFB II	MFB III	MFB IV
<i>ACTA2</i>	0.255233	21.04447	1.443986	4.665647	4.39712
<i>CCL2</i>	13.99074	4.476969	8.330583	4.541892	7.580274
<i>COL3A1</i>	9.172187	67.12583	8.923302	64.67622	65.38038
<i>COL5A2</i>	0.564254	6.26082	2.894847	4.876634	3.744942

Supplementary Table S2. Mean gene expression of HSCs I–V and early, intermediate, and late MFB.

Gene Name	HSC I	HSC II	HSC III	HSC IV	HSC V	Early MFB I
<i>ACTA2</i>	0.14393771	0.36639035	0.01772177	0.11650378	0.45571147	3.75705383
<i>CCL2</i>	6.92935975	22.1482896	16.9932256	15.5947369	160.629936	24.5157773
<i>CXCL1</i>	0.19436314	0.54072211	2.9897711	0.46346092	5.96367083	5.9975138
<i>CXCL12</i>	73.223511	59.5265139	62.2957151	73.4734595	36.9866964	13.4771641
<i>COL1A2</i>	4.42562979	3.81501036	4.3317417	5.10468878	4.12737645	0.20235445
<i>COL5A2</i>	0.61716154	0.52265032	0.49232782	0.81247689	0.45051412	0.41222067
<i>ID3</i>	14.4257135	19.585539	27.7387347	11.2151014	18.9112755	2.17908022
<i>S100A6</i>	0.09875259	0.02769721	0.01167219	0.02387577	0	1.92864876

Gene Name	Early MFB II	Interm. MFB I	Interm. MFB II	Interm. MFB III	Late MFB I	Late MFB II	Late MFB III
<i>ACTA2</i>	1.65381662	55.3086314	55.7388147	56.6587938	19.5884047	22.6909218	20.0948946
<i>CCL2</i>	37.1024492	0.23365574	0.63213034	0.12451785	0.32242775	0.30031165	2.00785768
<i>CXCL1</i>	45.8722936	0.02300151	0.06263036	0.0064203	0.02521638	0.02640656	0.15475411
<i>CXCL12</i>	24.4427018	11.5119612	17.3555205	10.5522942	20.521856	10.0320541	8.98169019
<i>COL1A2</i>	0.50383921	0.2046156	1.16649636	2.64824904	3.00512838	4.55456308	1.37125665
<i>COL5A2</i>	0.31213778	0.91239069	2.37837071	5.42714586	6.91048757	20.0563126	3.80688843
<i>ID3</i>	28.9727643	8.78347231	12.2669527	8.21522514	11.2122989	4.83146325	4.12031423
<i>S100A6</i>	1.48484728	37.4252259	16.2693933	18.2021413	33.9949525	25.2679785	30.4729068