

Table S1 Differential expression of CAF-related genes and PAGs in LACs

Gene	conMean	treatMean	LogFC	P value	FDR
<i>GREM1</i>	3.259401167	5.679963886	2.42056272	5.29E-26	2.93E-25
<i>COL1A1</i>	7.868985333	10.26613357	2.397148241	3.63E-23	1.57E-22
<i>COL3A1</i>	9.029412648	11.06920447	2.039791818	1.14E-21	4.29E-21
<i>IGKC</i>	11.16746574	13.14012766	1.972661924	8.30E-16	2.15E-15
<i>CD79A</i>	5.539289926	6.919958966	1.38066904	1.00E-11	2.03E-11
<i>CR2</i>	3.146071556	4.366516292	1.220444736	1.06E-10	1.87E-10
<i>TNFRSF25</i>	4.191939759	5.304881587	1.112941827	3.99E-17	1.18E-16
<i>KIR3DL1</i>	3.700138519	2.609617191	-1.090521327	4.26E-21	1.54E-20
<i>BANK1</i>	5.657181333	4.563600865	-1.093580468	4.23E-16	1.13E-15
<i>STEAP4</i>	6.765535611	5.558898953	-1.206636658	1.34E-07	1.95E-07
<i>BMP6</i>	5.786756722	4.50953148	-1.277225242	5.35E-15	1.27E-14
<i>CLIC2</i>	7.612744574	6.330716376	-1.282028198	3.17E-16	8.76E-16
<i>MAL</i>	6.74588563	5.234004531	-1.511881098	1.60E-20	5.54E-20
<i>FAM124B</i>	4.051053389	2.536221963	-1.514831426	1.95E-24	9.54E-24
<i>BMX</i>	4.275014648	2.700204121	-1.574810527	2.12E-27	1.35E-26
<i>DCN</i>	10.15221546	8.570584508	-1.581630955	3.79E-23	1.57E-22
<i>FCGR3B</i>	6.294748889	4.655619584	-1.639129305	1.82E-18	5.81E-18
<i>CXCR1</i>	4.319416167	2.561415907	-1.75800026	7.49E-24	3.45E-23
<i>MMRN2</i>	7.263814296	5.466133458	-1.797680838	5.51E-31	5.72E-30
<i>KCNJ15</i>	7.428031981	5.569648211	-1.858383771	2.33E-19	7.73E-19
<i>PALMD</i>	6.422585667	4.544520607	-1.87806506	1.47E-28	1.02E-27
<i>MYCT1</i>	6.386087444	4.472415955	-1.91367149	2.29E-31	3.17E-30
<i>EDN1</i>	8.392884944	6.364947044	-2.0279379	6.36E-22	2.51E-21
<i>MMRN1</i>	5.718632648	3.657249804	-2.061382844	3.00E-25	1.56E-24
<i>VWF</i>	9.595585463	7.48542582	-2.110159643	5.63E-29	4.25E-28
<i>PTPRB</i>	6.633333556	4.47965469	-2.153678865	8.64E-30	7.97E-29
<i>ROBO4</i>	7.164820722	4.916830765	-2.247989957	7.83E-32	1.63E-30
<i>CDH5</i>	8.258977019	5.970155736	-2.288821282	1.16E-31	1.92E-30
<i>CXCR2</i>	5.095069963	2.800486474	-2.294583489	4.23E-27	2.51E-26
<i>ACVRL1</i>	7.832623148	5.456389099	-2.37623405	2.80E-32	1.16E-30
<i>TIE1</i>	7.349862056	4.850850924	-2.499011131	1.18E-29	9.83E-29
<i>TEK</i>	7.138193926	4.459239571	-2.678954355	1.19E-32	9.90E-31
<i>EMCN</i>	7.201632667	4.174905805	-3.026726862	3.20E-31	3.80E-30
<i>CA4</i>	7.109879056	3.583703168	-3.526175888	5.94E-32	1.63E-30

Table S2 Gene Ontology analysis of differentially expressed genes

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0005201	Extracellular matrix structural constituent	6/32	166/18496	3.57E-07	4.28E-05	2.44E-05	MMRN1/MMRN2/VWF/COL1A1/COL3A1/DCN	6
GO:0019838	Growth factor binding	4/32	135/18496	8.33E-05	0.002707683	0.001543854	ACVRL1/TEK/COL1A1/COL3A1	4
GO:0002020	Protease binding	4/32	142/18496	0.0001013	0.002707683	0.001543854	BANK1/VWF/COL1A1/COL3A1	4
GO:0019955	Cytokine binding	4/32	145/18496	0.0001099	0.002707683	0.001543854	CXCR1/CXCR2/ACVRL1/GREM1	4
GO:0140375	Immune receptor activity	4/32	147/18496	0.0001158	0.002707683	0.001543854	CR2/KIR3DL1/CXCR1/CXCR2	4
GO:0048407	Platelet-derived growth factor binding	2/32	11/18496	0.0001579	0.002707683	0.001543854	COL1A1/COL3A1	2
GO:0070700	BMP receptor binding	2/32	11/18496	0.0001579	0.002707683	0.001543854	BMP6/CDH5	2
GO:0005172	Vascular endothelial growth factor receptor binding	2/32	13/18496	0.0002235	0.003352732	0.001911645	CDH5/GREM1	2
GO:0019199	Transmembrane receptor protein kinase activity	3/32	79/18496	0.0003402	0.004536074	0.002586358	ACVRL1/TEK/7075	3
GO:0016493	C-C chemokine receptor activity	2/32	23/18496	0.0007172	0.007214375	0.004113459	CXCR1/CXCR2	2
GO:0070696	Transmembrane receptor protein serine/threonine kinase binding	2/32	23/18496	0.0007172	0.007214375	0.004113459	BMP6/CDH5	2
GO:0019865	Immunoglobulin binding	2/32	24/18496	0.0007816	0.007214375	0.004113459	FCGR3B/VWF	2
GO:0019957	C-C chemokine binding	2/32	24/18496	0.0007816	0.007214375	0.004113459	CXCR1/CXCR2	2
GO:0001637	G protein-coupled chemoattractant receptor activity	2/32	26/18496	0.0009183	0.007346615	0.004188859	CXCR1/CXCR2	2
GO:0004950	Chemokine receptor activity	2/32	26/18496	0.0009183	0.007346615	0.004188859	CXCR1/CXCR2	2
GO:0033612	Receptor serine/threonine kinase binding	2/32	29/18496	0.0011435	0.008576199	0.004889938	BMP6/CDH5	2