

Supplemental Table 1 Sequences of oligonucleotide primers used for RT-PCR-based analysis of integrin subunit gene expression.

Subunit	Gene	Accession Number	Primers	Amplicon size (bp)	ECM Interaction	
α	1	<i>Itga1</i>	NM_001033228	Forward: 5'-CGTCTCAGATGAGTTGGCCC-3' Reverse: 5'-GCATGACCCAGTCCTGTGAAT-3'	155	Collagen; Laminin
	2	<i>Itga2</i>	NM_008396	Forward: 5'-TGC GGCTGCTAATGCTAGTT-3' Reverse: 5'-CCAGTAGCCAGTTGCCTTGT-3'	150	Collagen; Laminin
	3	<i>Itga3</i>	NM_013565	Forward: 5'-ATCGGCAGACTGAGCGACAA-3' Reverse: 5'-GGTCAGGGTCACTTTTCTCTGAA-3'	171	Laminin
	5	<i>Itga5</i>	NM_010577	Forward: 5'-TCCAGTGCACCACCATTCAA-3' Reverse: 5'-GGAGCACATGCCAAGATGGA-3'	157	RGD-binding; Fibronectin
	6	<i>Itga6</i>	NM_008397	Forward: 5'-TTGATCTACTTCCATAATTGTGTGG-3' Reverse: 5'-TTCCACTTGGTGATCCACTG-3'	160	Laminin
	8	<i>Itga8</i>	NM_001001309	Forward: 5'-ACACGTTCTCAAGAGAAAGAATG-3' Reverse: 5'-ACATTCGGAGTGGCCCAAT-3'	151	RGD-binding; Fibronectin; Vitronectin
	9	<i>Itga9</i>	NM_133721	Forward: 5'-AGCACTCCACGACAACACG-3' Reverse: 5'-AGTCCTCCCTCGAGCCATGT-3'	161	VCAM-1
	10	<i>Itga10</i>	NM_001081053	Forward: 5'-CATGGTGGCATGCACAGAAG-3' Reverse: 5'-ACCGCAATCCCATAACGTGT-3'	165	Collagen; Laminin
	11	<i>Itga11</i>	NM_176922	Forward: 5'-AGCCTTTGGCCAGGATTCAC-3' Reverse: 5'-ATTGGTTTCCATTGGGGCAC-3'	156	Collagen
	V	<i>ItgaV</i>	NM_008402	Forward: 5'-GGTCGCCTATCTTCGGGATG-3' Reverse: 5'-ATATGAGCCTGCCGACTGAC-3'	162	RGD-binding; Fibrinogen; Fibronectin; Vitronectin
	β	1	<i>Itgb1</i>	NM_010578	Forward: 5'-TTGCAACTGGTTTCTGGATTG-3' Reverse: 5'-CATTCTTCTTGCAAAATGTCGTA-3'	168
3		<i>Itgb3</i>	NM_016780	Forward: 5'-CAGTGGCCGGGACAACCTC-3' Reverse: 5'-GACAAAGTCTCATCTGAGCACCA-3'	161	RGD-binding; Fibrinogen; Fibronectin; Vitronectin
4		<i>Itgb4</i>	NM_001005608	Forward: 5'-CCAAGGCCTCCCTCTATCT-3' Reverse: 5'-CACGGGAATCTGTACCCAG-3'	173	Laminin
5		<i>Itgb5</i>	NM_010580	Forward: 5'-AATGTGGAAGTGCCECAAT-3' Reverse: 5'-TTTGAGGCTTTGGAAGTTGGC-3'	146	RGD-binding; Vitronectin

Supplemental Table 2 Complete gene expression dataset from analysis of hOSCs obtained from ovaries of three different subjects using the Human Integrin Signaling Primer Library (see text for details; N.D., not detected).

		Subject 1 AVG Ct	Subject 2 AVG Ct	Subject 3 AVG Ct
1	ADAMTS1	27.41467381	27.6806345	33.7854538
2	ADAMTS13	40.40980721	N.D.	40.51681773
3	ADAMTS8	38.81850815	42.00947571	39.98692576
4	CD44	40.63974762	36.56976128	37.14239502
5	CDH1	N.D.	N.D.	N.D.
6	CNTN1	33.44672394	38	40.3211085
7	COL11A1	N.D.	N.D.	N.D.
8	COL12A1	27.77831936	26.74600887	40.91740227
9	COL14A1	N.D.	38.69775963	41.81606547
10	COL15A1	29.30886459	27.79452229	N.D.
11	COL16A1	N.D.	N.D.	39.05307134
12	COL1A1	21.48907471	18.82833576	33.90632502
13	COL4A2	27.39070892	24.43215847	N.D.
14	COL5A1	28.89126968	26.15433979	37.03794098
15	COL6A1	25.91304111	24.22719002	N.D.
16	COL6A2	26.29365063	24.30940628	34.65966543
17	COL7A1	32.30583382	28.90729618	43.3400383
18	COL8A1	28.28013325	28.05765343	40.91039658
19	CTGF	N.D.	21.57390022	32.20464516
20	CTNNA1	27.84682655	25.20577335	N.D.
21	CTNNB1	30.46445274	26.84480953	N.D.
22	CTNND1	27.56139088	25.55162716	N.D.
23	CTNND2	N.D.	N.D.	N.D.
24	ECM1	26.42483425	24.38460636	37.80217107
25	FN1	22.30268478	21.67366695	38.93711853
26	HAS1	33.34583473	29.95589828	32.81475703
27	ICAM1	38.40436363	31.2388649	N.D.
28	ITGA1	29.14361954	27.43858051	39.36660512
29	ITGA10	35.85592461	34.47157669	N.D.
30	ITGA11	27.76153278	25.49538517	N.D.
31	ITGA2	30.67304993	25.59008121	41.25695546
32	ITGA3	26.99559593	24.98432446	N.D.
33	ITGA4	33.52968407	29.92076206	N.D.
34	ITGA5	25.38027	22.33900738	33.64046987
35	ITGA6	29.48524952	27.87346268	30.83618228
36	ITGA7	30.10532951	34.02077484	N.D.
37	ITGA8	N.D.	N.D.	N.D.

38	ITGA9	39.55936432	N.D.	38.72490692
39	ITGAD	41.08642197	42.17032242	N.D.
40	ITGAL	N.D.	N.D.	N.D.
41	ITGAM	37.4405117	38.68480873	37.7244606
42	ITGAV	31.51955223	28.98326397	40.6280543
43	ITGAX	N.D.	N.D.	N.D.
44	ITGB1	25.49896145	21.80442619	40.39399465
45	ITGB2	N.D.	N.D.	N.D.
46	ITGB3	32.22757149	29.16346359	39.35725403
47	ITGB4	N.D.	N.D.	41.43833923
48	ITGB5	25.33196163	22.45533752	N.D.
49	ITGB6	40.36738205	44.42711639	N.D.
50	ITGB7	44.49920082	40.67804718	N.D.
51	ITGB8	35.69527817	31.95185184	40.36690903
52	LAMA1	N.D.	N.D.	N.D.
53	LAMA2	38.27819252	33.00093269	41.12493261
54	LAMA3	N.D.	34.72609138	34.54503886
55	LAMB1	29.86603928	25.26217461	35.92848714
56	LAMB3	29.40347385	N.D.	29.17305692
57	LAMC1	25.86340714	24.1226759	32.60261345
58	MMP1	35.19607925	29.58448696	N.D.
59	MMP10	N.D.	32.73882103	40.09152985
60	MMP11	34.25201797	30.14136124	39.07869848
61	MMP12	N.D.	N.D.	N.D.
62	MMP13	N.D.	N.D.	43.36028926
63	MMP14	29.0438509	25.2464304	N.D.
64	MMP15	34.22304726	30.24384403	39.495224
65	MMP16	39.52402306	31.88394547	N.D.
66	MMP2	25.14005375	22.15215874	N.D.
67	MMP3	39.28055191	31.31312943	40.94088936
68	MMP7	N.D.	N.D.	N.D.
69	MMP8	31.22769165	30.47565937	30.73464203
70	MMP9	30.94835472	31.31786251	31.48891322
71	NCAM1	30.62191868	N.D.	30.46897825
72	PECAM1	40.07981873	33.22755623	39.71215439
73	SELE	42.93828011	40.83924103	42.30531947
74	SELL	N.D.	N.D.	N.D.
75	SELP	44.54564285	44.10116386	N.D.
76	SGCE	N.D.	N.D.	N.D.
77	SPARC	25.06023407	21.73928738	N.D.
78	SPG7	28.22570229	26.07788086	N.D.
79	SPP1	34.21493721	31.23020077	41.48914337
80	TGFBI	26.1281805	21.73746586	37.23967234
81	THBS1	22.42714024	20.7059145	N.D.
82	THBS2	27.16267395	23.18884659	N.D.
83	THBS3	31.52537441	30.51323605	N.D.
84	TIMP1	23.76430988	22.06893063	35.32013448
85	TIMP2	26.30201721	23.57567692	35.72195689
86	TNC	29.87750626	N.D.	38.52669907

87	VCAM1	44.77254677	41.80959511	N.D.
88	VCAN	29.95798969	26.08685017	N.D.
89	ACTB	21.87595558	19.42754841	36.67889404
90	B2M	22.97931004	20.16807652	42.88169479
91	GAPDH	22.27002048	20.80181313	36.71473694
92	GUSB	30.45147705	27.78578854	34.55851237
93	HPRT1	28.57710743	26.41437626	37.44387945
94	PGK1	26.05697727	23.855896	33.50720215
95	PPIA	22.8799057	20.84195518	37.0544103
96	PRL13A	24.66719818	22.00007629	41.7089297