

Supplemental Table 2. Differentially expressed genes encoding secreted proteins during *in vitro* follicle development

Symbol	Entrez ID	Method	Timecourse Hotelling	Limma p-value	Group	Fold Change				
						D2 vs D0	D4 vs D2	D5 vs D4	D6 vs D5	D8 vs D6
Zp3	22788	Timecourse	407	4.36E-06	3	-2.67	-1.90	-1.34	-1.24	-1.03
Comp	12845	Both	2637	5.07E-06	10	1.07	3.19	3.20	1.92	1.58
Bmp15	12155	Both	586	6.80E-06	3	-1.91	-2.09	-1.67	-1.08	-1.12
Igf2	16002	Both	1266	1.60E-05	10	-1.34	3.22	2.04	-1.23	1.78
Serpinf1	20317	Both	826	4.21E-05	2	1.00	-1.49	-1.37	-1.60	1.00
Grem1	23892	Both	2666	5.23E-05	10	2.04	4.37	1.73	1.64	1.11
Ctgf	14219	Both	815	5.41E-05	8	-5.38	2.62	1.75	-1.03	1.01
Cxcl13	55985	Both	894	7.89E-05	10	1.39	1.51	1.28	2.65	-1.05
Gdf9	14566	Both	797	1.49E-04	3	-1.67	-2.24	-1.34	-1.31	-1.09
Pcsk9	100102	Both	349	1.50E-04	10	2.01	2.43	1.57	1.01	-1.10
Zp1	22786	Timecourse	246	1.50E-04	3	-2.26	-1.66	-1.36	-1.15	-1.26
Adamts19	240322	Both	544	1.50E-04	1	1.30	-1.85	-1.88	-1.18	-1.04
C2	12263	Timecourse	279	2.40E-04	10	1.23	1.01	1.36	1.21	1.09
Cpa1	109697	Limma	0	2.61E-04	3	-2.20	-1.58	-1.46	1.00	1.00
Prelp	116847	Limma	0	2.66E-04	3	-1.29	-2.24	1.00	1.00	1.00
Umodl1	52020	Limma	0	3.19E-04	3	-1.82	-2.02	1.00	1.00	1.00
Stc2	20856	Limma	0	3.32E-04	10	-1.18	1.39	1.49	1.00	1.00
Thbs2	21826	Limma	0	4.30E-04	1	2.15	-2.23	1.00	1.00	1.00
Tulp2	56734	Both	207	5.65E-04	10	1.57	1.47	1.75	1.06	-1.04
Fetub	59083	Both	448	6.08E-04	10	1.27	1.81	1.87	-1.35	-1.06
Serping1	12258	Limma	0	6.65E-04	1	1.56	-2.06	1.00	1.00	1.00
Serpina3g	20715	Both	296	6.69E-04	1	2.20	-2.59	-1.26	1.22	-1.04
Adam23	23792	Limma	0	8.66E-04	9	3.68	1.56	1.63	1.00	1.00
Dkk3	50781	Both	648	9.71E-04	2	1.04	-1.78	-1.04	-1.48	-1.33
Serpina3c	16625	Limma	0	1.02E-03	9	1.49	1.60	1.00	1.40	1.00
Col6a2	12834	Limma	0	1.02E-03	2	-1.03	1.00	-1.58	1.00	1.00
Gdf10	14560	Limma	0	1.30E-03	1	1.23	1.00	-1.92	1.00	1.00
Lyz1	17110	Both	1931	1.34E-03	10	-1.04	1.51	2.26	1.78	1.05
Adamts5	23794	Both	203	1.52E-03	9	1.50	2.07	1.02	1.31	1.03
Pros1	19128	Timecourse	282	1.60E-03	7	-1.03	1.26	1.10	1.21	1.19
Tmem25	71687	Both	375	1.71E-03	10	2.08	1.11	1.25	1.50	1.01
Mmp2	17390	Both	914	1.76E-03	2	1.15	-1.60	-1.48	-1.23	-1.32
Lamb2	16779	Both	210	1.76E-03	8	-1.44	1.19	1.58	-1.03	-1.12
Angpt2	11601	Both	189	1.93E-03	10	2.03	1.19	1.05	1.59	1.33
Mfap4	76293	Limma	0	3.96E-03	3	-3.12	1.00	-1.69	1.00	1.00
Bgn	12111	Timecourse	653	4.13E-03	1	2.23	-1.90	-1.28	-1.13	-1.08
Thsd4	207596	Limma	0	4.79E-03	2	1.17	1.00	-1.58	1.00	1.00
Serpina5	268591	Both	392	4.93E-03	10	3.52	1.44	1.20	1.78	-1.21
Angptl1	72713	Limma	0	4.96E-03	5	-1.82	1.00	1.00	1.73	1.00
Nppc	18159	Limma	0	5.24E-03	10	1.16	1.46	1.41	1.00	1.00
Lcn2	16819	Limma	0	5.53E-03	10	1.15	1.79	1.00	1.43	1.00
Vegfa	22339	Both	463	7.37E-03	8	-2.20	1.03	1.58	1.21	1.06
Spink2	69982	Limma	0	7.85E-03	8	-2.28	1.00	2.11	1.00	1.00
Sema3f	20350	Limma	0	9.15E-03	8	-1.17	1.00	1.41	1.28	1.00
Tor2a	30933	Limma	0	1.32E-02	7	1.01	1.00	1.31	-1.48	1.00
Igfbp4	16010	Both	365	1.57E-02	1	1.44	-1.65	-1.14	-1.40	1.09
Tgfb3	21814	Timecourse	218	1.62E-02	10	1.34	1.25	1.22	1.03	1.18
Lypd6	320343	Both	483	1.63E-02	10	1.31	2.08	1.29	1.32	1.15
Saa3	20210	Limma	0	1.88E-02	4	13.85	-3.36	1.00	1.00	1.00
Inhba	16323	Timecourse	194	1.92E-02	9	12.95	1.60	1.09	1.15	1.10
Esm1	71690	Limma	0	1.96E-02	5	-1.35	-2.00	1.00	1.00	1.00

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Vcan	13003	Timecourse	232	2.05E-02	10	1.02	1.10	1.89	1.07	-1.20
Sfrp1	20377	Timecourse	429	2.17E-02	1	1.55	-1.18	-1.23	-1.57	-1.15
Col6a1	107581	Both	218	1.38E-01	1	1.42	-1.47	-1.24	1.03	1.03
Gdnf	14573	Timecourse	202	5.55E-02	6	1.49	1.23	1.50	-1.12	-1.26
Sct	20287	Timecourse	201	8.03E-02	8	-1.73	1.30	1.64	-1.19	-1.18
Gpx3	14778	Timecourse	328	9.89E-02	10	-1.48	2.83	-1.48	1.65	1.44
Prss35	244954	Timecourse	218	1.09E-01	7	1.11	1.02	1.38	1.01	1.17
Col6a1	12833	Both	218	1.38E-01	1	1.42	-1.47	-1.24	1.03	1.03
Defb19	246700	Timecourse	185	2.14E-01	10	1.53	1.28	1.32	1.06	1.05
Loxl1	16949	Timecourse	305	2.93E-01	4	3.01	-1.10	-1.57	1.34	-1.51
Rarres2	71660	Timecourse	213	4.13E-01	8	-1.76	1.05	1.14	1.26	1.21
Lum	17022	Timecourse	255	4.14E-01	4	1.23	1.17	-1.56	-1.23	1.07