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Supplementary Table 3. Differentially expresses genes in endometrium of SNEB cows mapped to the IPA database which were not included in immune and inflammatory gene dataset.

Gene Symbol (no. probes)	Real Fold change s	Adj P-Value (Bonferroni)	Gene Title	Probe Names	Entrez Gene
UP-REGULATED IN SNEB COWS					
<i>ABO</i>	1.89	0.0010	ABO blood group	Bt_28229_1_A1_s_at	515340
<i>AGR2</i>	2.69	<10 ⁻¹⁰	Anterior gradient homolog 2 (<i>Xenopus laevis</i>)	Bt_29129_1_S1_at	415112
<i>AKAP5</i>	1.76	0.0004	A kinase (PRKA) anchor protein 5	Bt_372_1_S1_at	281612
<i>ARHGAP15</i>	2.07	3.1x10 ⁻⁵	Rho GTPase activating protein 15	Bt_24715_1_S1_at	616246
<i>ARHGAP30</i>	1.99	0.0037	Rho GTPase activating protein 30	Bt_865_1_S1_at	538835
<i>ATF3</i>	2.81	5.9x10 ⁻⁸	Activating transcription factor 3	Bt_18533_1_S1_at	515266
<i>BCL2L15</i>	2.64	5.1x10 ⁻⁹	BCL2-like 15	Bt_22010_1_S1_at	509786
<i>BHLHB2</i>	1.90	0.0007	Basic helix-loop-helix domain containing, class B, 2	Bt_23123_1_S1_at	506945
<i>BIN2</i>	1.79	0.0034	Bridging integrator 2	Bt_11875_1_S1_at	515025
<i>C15H11ORF34</i>	7.57	<10 ⁻¹⁰	Chromosome 11 open reading frame 34 ortholog	Bt_6410_1_A1_at	505518
<i>C3orf57(x2)</i>	3.71	1.1x0 ⁻⁹	Hypothetical protein LOC780785	Bt_14395_2_S1_at	780785
	4.22	<10 ⁻¹⁰		Bt_14395_1_A1_at	
<i>CLCA3</i>	3.52	4.5x10 ⁻⁵	Chloride channel, calcium activated, family member 3	Bt_3885_2_S1_at	281694
<i>DKFZP586H2123</i>	2.37	2.4x10 ⁻⁵	Regeneration associated muscle protease	Bt_6021_1_S1_at	513841
<i>EAF2</i>	1.93	0.0460	ELL associated factor 2	Bt_17120_1_A1_at	613523
<i>EGLN3</i>	1.91	0.0005	Egl nine homolog 3 (<i>C. elegans</i>)	Bt_23232_1_S1_at	535578
<i>EVI2B</i>	2.44	2.7x10 ⁻⁸	Ecotropic viral integration site 2B	Bt_6963_1_A1_at	617442
<i>GATM</i>	1.87	0.0281	Glycine amidinotransferase (L-arginine:glycine amidinotransferase)	Bt_23250_2_S1_at	414732

<i>GIMAP7</i>	2.29	0.0006	GTPase, IMAP family member 7	Bt_1088_1_S1_a_at	510988
<i>GLDC</i>	1.98	0.0015	Glycine dehydrogenase (decarboxylating)	Bt_13486_1_A1_at	507688
<i>GPC3</i>	1.59	0.0018	Glypican 3	Bt_11178_1_S1_at	615239
<i>GPR171</i>	3.23	2.6×10^{-8}	G protein-coupled receptor 171	Bt_8343_1_S1_at	767929
<i>HI5C11ORF34</i>	3.33	$<10^{-10}$	Chromosome 11 open reading frame 34 ortholog	Bt_6410_2_A1_s_at	505518
<i>JMJD2B</i>	2.89	3.9×10^{-10}	Jumonji domain containing 2B	Bt_1983_1_S1_at	508141
<i>LOC100125415</i>	2.72	0.0001	GTPase, IMAP family member	Bt_13777_1_S1_at	100125415
<i>LOC281812 ///</i>	3.46	1.0×10^{-9}	(Similar to) fibroblast growth factor binding protein	Bt_279_1_S1_at	281812 ///
<i>LOC783341</i>					783341
<i>LOC504309</i>	2.06	0.0010	Similar to C-type lectin domain family 2, member h	Bt_24228_1_S1_at	504309
<i>LOC507126</i>	2.25	0.0006	Similar to basement membrane-induced gene	Bt_22179_1_S1_at	507126
<i>LOC511106</i>	2.80	0.0028	Serpin peptidase inhibitor, clade B like	Bt_9693_1_S1_at	511106
<i>LOC512010</i>	1.80	0.0130	Similar to centaurin delta 1	Bt_7337_2_S1_at	512010
<i>LOC512304</i>	1.94	0.0016	Similar to ENPP5	Bt_14001_1_A1_at	512304
<i>LOC515917</i>	2.21	1.3×10^{-8}	Similar to trophoblast Kunitz domain protein 2	Bt_6700_1_A1_at	515917
<i>LOC530077</i>	2.81	9.2×10^{-6}	Similar to GTPase, IMAP family member 5	Bt_21820_1_S1_at	530077
<i>LOC534929</i>	2.75	1.6×10^{-8}	Similar to VNN2 protein	Bt_19160_1_A1_at	534929
<i>LOC537017</i>	1.93	0.0029	Similar to cytidine monophosphate-N- Setylneuraminic acid hydroxylase	Bt_21869_1_S1_at	537017
<i>LOC784517</i>	2.12	0.0187	Similar to cationic amino acid transporter 5	Bt_18469_1_S1_at	784517
<i>LOC785058</i>	2.76	0.0034	Hypothetical protein LOC785058	Bt_9679_1_S1_at	785058
<i>LOC787253</i>	3.26	0.0001	Similar to Extracellular proteinase inhibitor	Bt_9675_1_S1_at	787253
<i>LOC789703</i>	5.21	$<10^{-10}$	Hypothetical protein LOC789703	Bt_16790_1_S1_at	789703
<i>LOC100138905 ///</i>	2.07	0.0001	Similar to zinc finger protein 665 Or 415	Bt_18469_2_A1_at	100138905 /// 787057
<i>LOC787057</i>					
<i>MATN4</i>	7.36	$<10^{-10}$	Matrilin 4	Bt_15484_2_A1_at	504598
<i>MGC137405</i>	2.36	0.0489	GTPase, IMAP family member	Bt_21722_1_S1_at	530031
<i>MGC159584</i>	4.17	$<10^{-10}$	Hypothetical LOC510480	Bt_20356_1_S1_at	510480
<i>MGC165939</i>	2.85	4.3×10^{-5}	Hypothetical LOC517231	Bt_17889_1_A1_at	517231

<i>MT1E</i>	5.80	2.9×10^{-9}	Metallothionein 1E	Bt_23042_1_S1_at	404071
<i>MUC13</i>	4.60	$<10^{-10}$	Mucin 13, cell surface associated	Bt_12140_1_S1_at	511430
<i>PDK4</i>	3.16	0.0410	Pyruvate dehydrogenase kinase, isozyme 4	Bt_13330_2_A1_at	507367
<i>PFKFB3</i>	2.66	9.6×10^{-5}	6-phosphofructo-2-kinase/fructose-2,6- biphosphatase 3	Bt_12314_1_S1_at	407183
<i>PLA2G2D1</i>	2.26	0.0031	Calcium-dependent phospholipase A2 PLA2G2D1	Bt_22208_1_S1_at	494318
<i>PLAC8</i>	3.31	7.6×10^{-8}	Placenta-specific 8	Bt_15912_1_S1_at	767910
<i>PQLC3</i>	1.97	0.0330	PQ loop repeat containing 3	Bt_28700_1_S1_at	506958
<i>SAMSNI(x2)</i>	3.46	$<10^{-10}$	SAM domain, SH3 domain and nuclear localization signals 1	Bt_28225_1_A1_at	534171
	2.82	5.5×10^{-7}		Bt_28225_2_S1_at	
<i>SDS (x2)</i>	7.36	$<10^{-10}$	Serine dehydratase	Bt_5878_1_A1_at	514346
	6.06	$<10^{-10}$		Bt_5878_2_S1_at	
<i>SIX3</i>	2.22	3.4×10^{-6}	SIX homeobox 3	Bt_7524_1_A1_at	616756
<i>STC1</i>	6.40	$<10^{-10}$	Stanniocalcin 1	Bt_10272_1_S1_at	338078
<i>TGM3(x2)</i>	8.16	$<10^{-10}$	Transglutaminase 3	Bt_13628_2_S1_a_at	505080
	4.05	2.6×10^{-9}		Bt_13628_1_S1_at	
<i>TMEM156</i>	2.57	1.8×10^{-5}	Transmembrane protein 156	Bt_27087_1_A1_at	533681
<i>TRPA1(x2)</i>	7.39	$<10^{-10}$	Transient receptor potential cation channel, subfamily A, member 1	Bt_19959_2_A1_at	505317
	5.16	$<10^{-10}$		Bt_19959_1_S1_at	
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Unidentified					
---	5.29	$<10^{-10}$	---	Bt_7128_1_S1_at	---
---	2.62	$<10^{-10}$	---	Bt_6813_1_A1_at	---
2 probes	7.25	$<10^{-10}$	---	Bt_2501_2_A1_at	---
	4.12	$<10^{-10}$	---	Bt_2501_1_S1_at	---
---	2.02	$<10^{-10}$	---	Bt_16425_1_A1_at	---
---	2.63	$<10^{-10}$	---	Bt_19792_1_A1_at	---
---	2.54	$<10^{-10}$	---	Bt_9122_1_A1_at	---
---	2.67	1.5×10^{-10}	---	Bt_8875_2_S1_at	---
---	3.63	2.3×10^{-10}	---	Bt_20696_1_A1_at	---
---	2.81	7.4×10^{-10}	---	Bt_6176_1_S1_at	---
---	2.10	1.4×10^{-8}	---	Bt_27446_1_A1_at	---
2 probes	2.74	7.1×10^{-8}	---	Bt_22215_2_A1_at	---
	2.09	0.0007	---	Bt_22215_1_S1_at	---
---	2.06	8.2×10^{-8}	---	Bt_8796_1_S1_at	---

2 probes	3.32	1.4x10 ⁻⁷	---	Bt_29777_1_S1_at	---
	3.77	0.0003	---	Bt_29777_1_S1_x_at	---
---	2.03	1.3x10 ⁻⁵	---	Bt_13522_1_S1_at	---
---	2.44	4.8x10 ⁻⁵	---	Bt_21851_1_A1_at	---
---	2.33	8.8x10 ⁻⁵	---	Bt_24547_1_S1_at	---
---	1.46	0.0004	---	Bt_29505_1_S1_at	---
---	2.48	0.0008	---	Bt_12589_1_S1_at	---
---	2.31	0.0012	---	Bt_6785_1_A1_at	---
---	1.91	0.0018	---	Bt_20308_1_S1_at	---
---	1.83	0.0024	---	Bt_6786_1_S1_at	---
---	1.90	0.0036	---	Bt_22797_1_A1_at	---
2 probes	1.82	0.0044	---	Bt_24417_1_A1_at	---
	2.01	0.0165	---	Bt_24417_2_S1_at	---
---	2.00	0.0048	---	Bt_26925_1_S1_at	---
---	1.39	0.0168	---	Bt_20501_1_S1_at	---
---	2.92	0.0181	---	Bt_17514_1_S1_at	---
---	1.80	0.0212	---	Bt_25812_1_A1_at	---
---	2.40	0.0261	---	Bt_26011_1_A1_at	---
---	1.71	0.0467	---	Bt_20452_1_A1_at	---

DOWN-REGULATED IN SNEB COWS

<i>ACTC1</i>	-1.85	0.0225	Actin, alpha, cardiac muscle 1	Bt_12491_1_A1_at	533219
<i>ADCY8</i>	-1.93	3.2x10 ⁻⁷	Similar to brain adenylate cyclase 8	Bt_24461_1_A1_at	535017
<i>BCHE</i>	-1.91	0.0001	Butyrylcholinesterase	Bt_28385_1_A1_at	514657 /// 534616
<i>CDCA7</i>	-2.49	3.7x10 ⁻⁶	Cell division cycle associated 7	Bt_6441_1_S1_at	614893
<i>CDCA7L</i>	-1.83	0.0034	Cell division cycle associated 7-like	Bt_1404_2_S1_at	514631
<i>CETN4</i>	-2.28	0.0201	Centrin 4	Bt_2882_2_S1_at	505789
<i>CHST9</i>	-2.35	2.2x10 ⁻⁶	Carbohydrate (N-acetylgalactosamine 4-O) sulfotransferase 9	Bt_21861_2_A1_at	525909
<i>CLDN10</i>	-2.00	0.0254	Claudin 10	Bt_16487_1_S1_at	506545
<i>CLIC6</i>	-3.29	<10 ⁻¹⁰	Chloride intracellular channel 6	Bt_22741_1_S1_at	507243
<i>COL11A1</i>	-1.96	0.0005	Collagen, type XI, alpha 1	Bt_21409_1_A1_at	287013
<i>COL4A4</i>	-1.75	0.0223	Collagen, type IV, alpha 4	Bt_29725_1_S1_at	407107
<i>DMGDH</i>	-2.27	0.0052	Dimethylglycine dehydrogenase	Bt_17379_1_A1_at	504453

<i>FLNA</i>	-2.34	0.0011	Filamin A, alpha (actin binding protein 280)	Bt_959_2_S1_at	281165
<i>GPR133</i>	-3.39	<10 ⁻¹⁰	G protein-coupled receptor 133	Bt_22380_1_S1_at	528174
<i>ISOC1</i>	-2.28	0.0002	Isochorismatase domain containing 1	Bt_25297_1_A1_at	540524
<i>KCNN2</i>	-2.07	2.1x10 ⁻⁵	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2	Bt_28008_1_S1_s_at	404177
<i>KERA</i>	-1.63	0.0066	Keratocan	Bt_5391_1_S1_at	280785
<i>LOC515053</i>	-2.07	0.0035	Similar to chromosome 21 open reading frame 62	Bt_22629_1_A1_at	515053
<i>LOC532409</i>	-2.04	0.0238	Similar to high-mobility group box 3	Bt_11711_1_A1_at	532409
<i>LOC787239</i>	-1.68	0.0014	Similar to Synaptotagmin-1 (Synaptotagmin I) (SytI) (p65)	Bt_23205_1_S1_s_at	787239
<i>LRRC17</i>	-1.81	0.0191	Leucine rich repeat containing 17	Bt_4886_1_A1_at	777690
<i>MGC127236</i>	-2.63	2.5x10 ⁻¹⁰	Amyloid P component-like	Bt_15901_1_S1_at	504879
<i>MSX1</i>	-2.32	0.0029	MSH homeobox 1	Bt_1656_1_S1_at	286872
<i>NOV</i>	-2.76	5.3x10 ⁻⁵	Nephroblastoma overexpressed	Bt_13482_2_S1_at	505727
<i>OLFM4</i>	-2.03	<10 ⁻¹⁰	Olfactomedin 4	Bt_14100_1_S1_at	515082
<i>PDZK1</i>	-1.40	0.0475	PDZ domain containing 1	Bt_5058_1_S1_at	534439
<i>PSAT1 (x3)</i>	-2.95	<10 ⁻¹⁰	Phosphoserine aminotransferase 1	Bt_13588_2_S1_at	533044
	-2.65	5.8x10 ⁻⁹		Bt_13588_1_A1_at	
	2.61	1.7x10 ⁻⁸		Bt_13588_3_A1_at	
<i>RHBG</i>	-2.06	3.9x10 ⁻⁷	Rh family, B glycoprotein	Bt_27940_1_A1_at	282709
<i>ROPN1L</i>	-2.12	0.0069	Ropporin 1-like	Bt_22715_2_S1_at	515565
<i>SDC2 (x2)</i>	-2.00	0.0002	Syndecan 2	Bt_2494_2_S1_a_at	615785
	-1.92	0.0167		Bt_11462_1_S1_at	
<i>SHISA2</i>	-3.91	1.6x10 ⁻⁷	Shisa homolog 2 (<i>Xenopus laevis</i>)	Bt_22389_1_S1_at	617336
<i>SLC2A5</i>	-2.89	<10 ⁻¹⁰	Solute carrier family 2, member 5	Bt_19805_1_A1_at	282868
<i>LOC786885 ///</i>	-1.99	1.6x10 ⁻⁸	Similar to SLC2A5 protein /// solute carrier family 2, member 5	Bt_12774_1_S1_at	282868 ///
<i>SLC2A5</i>					786885
<i>SOSTDC1</i>	-2.05	<10 ⁻¹⁰	Sclerostin domain containing 1	Bt_27202_1_A1_at	523184
<i>STMN2</i>	-2.29	0.0054	Stathmin-like 2	Bt_3704_3_A1_at	534991
<i>TAC3</i>	-2.46	5.6x10 ⁻⁷	Tachykinin 3	BtAffx_1_13_S1_at	281513
<i>UHRF1 (x2)</i>	-2.39	0.0024	Ubiquitin-like with PHD and ring finger domains 1	Bt_27328_1_S1_at	530411
	-2.42	0.0007		Bt_28379_1_S1_at	

Unidentified					
2 probes	-5.95	$<10^{-10}$	---	Bt_1296_1_S1_at	---
	-3.85	$<10^{-10}$	---	Bt_1296_2_S1_at	---
---	-4.61	$<10^{-10}$	---	Bt_24179_1_A1_at	---
---	-3.62	$<10^{-10}$	---	Bt_24977_1_A1_at	---
---	-3.15	$<10^{-10}$	---	Bt_21900_1_S1_at	---
---	-3.80	$<10^{-10}$	---	Bt_26467_1_A1_at	---
---	-2.71	9.8×10^{-9}	---	Bt_22741_2_A1_at	---
---	-3.10	1.2×10^{-8}	---	Bt_17034_1_A1_at	---
---	-1.97	8.6×10^{-5}	---	Bt_5915_1_A1_at	---
---	-1.68	0.0016	---	Bt_29555_1_A1_at	---
---	-2.22	0.0004	---	Bt_2304_1_A1_at	---
---	-2.40	0.0019	---	Bt_25285_1_A1_at	---
---	-1.92	0.0051	---	Bt_19097_2_S1_at	---
---	-1.78	0.0107	---	Bt_28181_1_S1_at	---
---	-1.54	0.0291	---	Bt_19258_1_A1_at	---

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