Supplementary Table 2. Differentially expresses genes in endometrium of SNEB cows mapped to the IPA database which were included in immune and inflammatory gene dataset.

Gene Symbol (no. probes)	Real Fold changes	Adj P-Value (Bonferroni)	Gene Title	Probe Names	Entrez Gene
			UP-REGULATED IN SNEB COWS		
ACTN4	7.99	$<10^{-10}$	Actinin, alpha 4	Bt_16790_2_S1_at	522269
AHSG (x4)	7.73	$<10^{-10}$	Alpha-2-HS-glycoprotein	Bt_23250_7_A1_x_at	280988
	8.01	$<10^{-10}$		Bt_23250_5_A1_at	
	6.94	$<10^{-10}$		Bt_23250_1_A1_x_at	
	3.94	$<10^{-10}$		Bt_23250_6_A1_x_at	
AKR1C4	3.21	$5.3x10^{-7}$	Aldo-keto reductase family 1, member C4	Bt_23094_1_A1_at	282138
BCL2A1	3.28	0.0002	BCL2-related protein A1	Bt_7542_1_S1_at	282151
BLA-DQB	11.3	$<10^{-10}$	MHC class II antigen	Bt_7220_1_S1_at	539241
BOLA	1.87	0.0142	MHC class I heavy chain	Bt_29815_1_S1_x_at	515712
C1QA	2.29	$3.4x10^{-5}$	Complement component 1, q subcomponent, A chain	Bt_1577_1_S1_at	534961
C1QB	2.30	$7.4x10^{-6}$	Complement component 1, q subcomponent, B chain	Bt_20164_1_S1_at	617435
C1QC	2.21	$3.1x10^{-5}$	Complement component 1, q subcomponent, C chain	Bt_21576_1_S1_at	509968
C3(x2)	4.25	$3.4x10^{-5}$	Complement component 3	Bt_4209_2_S1_at	280677
	3.28	0.0007		Bt_4209_2_S1_a_at	
CCR5	1.94	0.0036	Chemokine (C-C motif) receptor 5	Bt_21331_2_S1_at	497017
CCR7	2.81	0.0099	Chemokine (C-C motif) receptor 7	Bt_12241_1_S1_at	510668
CD36	2.88	$7.7x10^{-9}$	CD36 molecule (thrombospondin receptor)	Bt_5392_1_S1_at	281052
CD48	2.89	$<10^{-10}$	CD48 molecule	Bt_13293_1_S1_at	508386
CD53	3.04	$<10^{-10}$	CD53 molecule	Bt_14005_1_S1_at	505040
CD69	2.62	0.0002	CD69 molecule	Bt_8544_1_S1_at	281058
CD79A	1.83	0.0001	CD79a molecule, immunoglobulin-associated alpha	Bt_4436_1_S1_a_at	281674
CDH17	2.12	$6.7x10^{-6}$	Cadherin 17	Bt_28258_1_S1_at	507526
CFB	2.91	$9.8x10^{-7}$	Complement factor B	Bt_13542_1_S1_at	514076
CFH	2.01	0.0016	Complement factor H	Bt_13556_1_S1_a_at	280816
CHI3L1	4.72	$5.7x10^{-6}$	Chitinase 3-like 1	Bt_5238_1_S1_at	286869
CLEC2D	2.17	$2.0x10^{-7}$	C-type lectin domain family 2, member D	Bt_24069_1_A1_at	617565
CTSL1	7.34	$<10^{-10}$	Cathepsin L1	Bt_10200_1_S1_at	515200

CXCL13	1.28	0.0022	Chemokine (C-X-C motif) ligand 13	Bt_28088_1_S1_at	511674
CXCL14	1.97	0.0004	Chemokine (C-X-C motif) ligand 14	Bt_20397_1_S1_at	511771
CXCL2(x3)	4.90	$3.0x10^{-7}$	Chemokine (C-X-C motif) ligand 2	Bt_610_1_A1_at	281214
	5.72	$4.0x10^{-7}$		Bt_611_1_S2_at	
	2.81	0.0006		Bt_611_1_S1_x_at	
CXCL5	14.8	$<10^{-10}$	Chemokine (C-X-C motif) ligand 5	Bt_7165_1_S1_at	281735
CXCR6	2.23	0.0150	Chemokine (C-X-C motif) receptor 6	Bt_21979_1_S1_at	506807
DEFB1	2.29	$1.9x10^{-6}$	Defensin, beta 1	Bt_132_1_S1_at	281743
DKK1	3.35	$1.9x10^{-5}$	Dickkopf homolog 1 (Xenopus laevis)	Bt_13880_1_S1_at	504445
FABP4	2.58	$2.8x10^{-8}$	Fatty acid binding protein 4	Bt_97_1_S1_at	281759
GNLY (x2)	2.87	$1.1x10^{-8}$	Granulysin	Bt_16101_1_S1_s_at	404173
	2.93	$3.0x10^{-10}$		Bt_16101_1_S1_at	
GPX3	2.33	0.0489	Glutathione peroxidase 3	Bt_12916_1_S1_at	281210
HCK	2.14	0.0147	Hemopoietic cell kinase	Bt_22050_1_S1_at	280814
HP	2.04	0.0006	Haptoglobin	Bt_12553_1_S1_at	280692
ICOS	2.20	0.0138	Inducible T-cell co-stimulator	Bt_17957_1_A1_at	507026
(2 probes)	2.52	0.0146		Bt_24712_1_S1_at	
IFIH1	2.41	0.0079	Interferon induced with helicase C domain 1	Bt_16857_1_A1_at	535490
IgCgamma	4.60	$<10^{-10}$	IgG2a heavy chain constant region	Bt_12490_2_A1_x_at	404109
IGFBP1	2.31	$2.9x10^{-6}$	Insulin-like growth factor binding protein 1	Bt_190_1_A1_at	282259
IGHG1(x3)	2.99	$<10^{-10}$	Immunoglobulin heavy constant gamma 1	Bt_12490_1_S1_at	281850
	3.00	$<10^{-10}$			
	3.05	$<10^{-10}$			
IGHM	5.09	$<10^{-10}$	Immunoglobulin heavy constant mu	Bt_7783_1_S1_a_at	404057
IGJ	3.49	$<10^{-10}$	Immunoglobulin J chain	Bt_3843_1_S1_at	280821
IGK	3.90	$3.9x10^{-8}$	Ig kappa chain	Bt_12906_2_S1_at	506890
IGL@ ///	2.69	$3.8x10^{-9}$	Immunoglobulin light chain, lambda gene cluster ///	Bt_21368_1_S1_s_at	505478 ///
IGLL1			immunoglobulin lambda-like polypeptide 1		789205
IL1B	2.73	$9.3x10^{-5}$	Interleukin 1, beta	Bt_4856_1_S2_at	281251
IL1R	8.27	$<10^{-10}$	Interleukin 1 receptor	Bt_24073_1_S1_at	515640
IL1RN	2.94	$1.4x10^{-6}$	Interleukin 1 receptor antagonist	Bt_4199_1_S1_at	281860
IL8	8.11	$<10^{-10}$	Interleukin 8	Bt_155_1_S1_at	280828
IL8RB	6.37	$<10^{-10}$	Interleukin 8 receptor, beta	Bt_4208_1_S1_at	281863
INDO	2.10	0.0320	Indoleamine-pyrrole 2,3 dioxygenase	Bt_27759_1_A1_at	506281
ISG15	5.79	$<10^{-10}$	ISG15 ubiquitin-like modifier	Bt_12304_1_S1_at	281871
ISG20	3.63	$7.1x10^{-8}$	Interferon stimulated exonuclease gene 20kDa	Bt_22275_1_A1_at	506604

KNG1	2.26	$9.1x10^{-10}$	Kininogen 1	Bt_4210_1_A1_a_at	280833
LOC404062	4.42	$3.0x10^{-9}$	Immunoglobin light chain VJ region	Bt_21368_2_S1_x_at	404062
LOC512486	2.41	$5.8x10^{-7}$	Similar to Interferon-induced guanylate-binding protein 1	Bt_9296_1_A1_at	512486
LOC512672	2.17	0.0078	Major histocompatibility complex, class I	Bt_9217_1_A1_at	512672
LY9	1.79	0.0049	Lymphocyte antigen 9	Bt_28439_1_S1_a_at	528926
MAP3K8	2.24	0.0009	Mitogen-activated protein kinase kinase kinase 8	Bt_28561_1_S1_at	535622
MAPK13	2.25	0.0085	Mitogen-activated protein kinase 13	Bt_800_1_S1_at	535327
MMP1	28.8	$<10^{-10}$	Matrix metallopeptidase 1 (interstitial collagenase)	Bt_72_1_S1_at	281308
MMP13(x2)	9.40	$<10^{-10}$	Matrix metallopeptidase 13 (collagenase 3)	Bt_26268_1_A1_at	281914
	5.31	$<10^{-10}$		Bt_39_1_S1_at	
MMP3 (x2)	14.04	$<10^{-10}$	Matrix metallopeptidase 3	Bt_18504_1_S1_at	281309
	12.93	$<10^{-10}$		Bt_18504_2_S1_a_at	
MMP9	5.29	$<10^{-10}$	Matrix metallopeptidase 9	Bt_4714_1_S1_at	282871
MPEG1	2.22	$1.1x10^{-5}$	Macrophage expressed gene 1	Bt_24238_1_A1_at	539997
MS4A1(x2)	5.14	$<10^{-10}$	Membrane-spanning 4-domains, subfamily A, member 1	Bt_2158_1_S1_at	505653
	2.53	$7.8x10^{-5}$		Bt_2158_2_S1_at	
MX1	2.22	0.0374	Myxovirus (influenza virus) resistance 1	Bt_4675_1_S1_a_at	280872
MX2	3.13	0.0001	Myxovirus (influenza virus) resistance 2 (mouse)	Bt_8143_1_S1_at	280873
NFKBIZ	2.81	$2.8x10^{-5}$	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	Bt_8227_1_S1_at	282713
PDCD1LG2	1.63	$1.2x10^{-7}$	Programmed cell death 1 ligand 2	Bt_20653_1_A1_at	539392
PLAUR	2.57	0.0122	Plasminogen activator, urokinase receptor	Bt_1942_1_S1_at	281983
POU2AF1	4.84	$<10^{-10}$	POU class 2 associating factor 1	Bt_17854_1_A1_at	528475
PTGS1	2.44	0.0015	Prostaglandin-endoperoxide synthase 1	Bt_2151_2_A1_at	282022
PTGS2 (x2)	4.28	$<10^{-10}$	Prostaglandin-endoperoxide synthase 2	Bt_15758_1_S1_at	282023
	1.87	0.0001		Bt_16478_1_A1_at	
PTPN22	2.48	$5.9x10^{-7}$	Protein tyrosine phosphatase, non-receptor type 22	Bt_9294_1_A1_at	518992
S100A12	8.20	$<10^{-10}$	S100 calcium binding protein A12	Bt_357_1_S1_at	282467
S100A8	9.45	$<10^{-10}$	S100 calcium binding protein A8	Bt_9360_1_S1_at	616818
S100A9 (x2)	8.28	$<10^{-10}$	S100 calcium binding protein A9	Bt_16201_1_S1_at	532569
	3.27	0.0018		Bt_16201_2_A1_at	
SAMD9	3.25	$9.5x10^{-9}$	Sterile alpha motif domain containing 9	Bt_28624_1_S1_at	514205
SELL	2.75	0.0018	Selectin L	Bt_2314_1_S1_at	281485
SLA	2.38	0.0368	Src-like-adaptor	Bt_784_1_A1_at	513589
SLAMF7	2.51	$<10^{-10}$	SLAM family member 7	Bt_6980_1_S1_at	790164
SLC11A1	2.08	0.0026	Solute carrier family 11, member 1	Bt_5373_1_S1_at	282470

SOD2	4.43	$8.8x10^{-10}$	Superoxide dismutase 2,	Bt_4748_1_S1_at	281496
SPINK1	4.77	$<10^{-10}$	Serine peptidase inhibitor, Kazal type 1	Bt_9636_1_S1_at	574092
SRGN	3.12	0.0001	Serglycin	Bt_16048_1_S1_at	509501
TAP	3.56	0.0004	Tracheal antimicrobial peptide	Bt_510_1_S1_at	286837
TREM1	2.40	0.0021	Triggering receptor expressed on myeloid cells 1	Bt_9208_1_S1_at	404547
UBD	3.01	$8.8x10^{-6}$	Ubiquitin D	Bt_5897_2_S1_at	504548
VCAM1	1.48	0.0011	Vascular cell adhesion molecule 1	Bt_7043_2_S1_a_at	282118
ZAP70	2.15	0.0238	Zeta-chain (TCR) associated protein kinase 70kDa	Bt_20905_1_S1_at	504509
			DOWN-REGULATED IN SNEB COWS		
CCNB1	-3.67	$<10^{-10}$	Cyclin B1	Bt_15980_1_A1_at	327679
CRABP1	-1.89	0.0015	Cellular retinoic acid binding protein 1	Bt_396_2_S1_a_at	282201
FKBP4	-1.87	0.0055	FK506 binding protein 4, 59kDa	Bt_4797_1_S1_at	508535
GSTA1	-1.38	0.0003	Glutathione S-transferase A1	Bt_227_2_A1_at	777644
IGF1	-2.11	$7.9x10^{-10}$	Insulin-like growth factor 1	Bt_12750_1_S1_at	281239
IHH	-2.43	$1.6x10^{-5}$	Indian hedgehog homolog (Drosophila)	Bt_22104_1_S1_at	522714
IL2	-3.10	0.0085	Interleukin 2	Bt_3307_1_A1_at	511596
MYB (x2)	-2.76	$<10^{-10}$	v-myb myeloblastosis viral oncogene homolog (avian)	Bt_12781_1_S1_at	317776
	-2.11	0.0116		Bt_12781_2_S1_a_at	
NTRK2 (x4)	-4.00	$<10^{-10}$	Neurotrophic tyrosine kinase, receptor, type 2	Bt_20662_1_A1_at	505824
	-2.15	0.003		Bt_12217_3_A1_at	
	-2.28	0.0027		Bt_12217_2_S1_at	
	-2.15	0.0070		Bt_12217_1_S1_at	
P2RY14	-2.24	$2.9x10^{-6}$	Purinergic receptor P2Y, G-protein coupled, 14	Bt_17368_2_S1_at	767936
(x2)	-2.15	$4.6x10^{-5}$		Bt_17368_1_A1_at	
PIK3R1	-1.96	0.0331	Phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	Bt_7236_1_S1_at	282307
PLA2G10	-4.50	$1.6x10^{-10}$	Phospholipase A2, group X	Bt_22381_1_S1_at	613966
PTHLH	-3.40	$8.4x10^{-6}$	Parathyroid hormone-like hormone	Bt_12848_1_S1_at	286767