

Table S1 Downregulated genes with a fold change ≥ 1.5 in LBW pups

No.	NCBI Reference	Gene symbol	Gene name	Expression level	qRT-PCR expression
1	NM_017193	Aadat	Amino adipate aminotransferase	0.25	0.317
2	XM_001064087	Kctd21	Potassium channel tetramerisation domain containing 21	0.26	0.597
3	NM_001014124	Dnajc28	DnaJ (Hsp40) homolog, subfamily C, member 28	0.28	0.348
4	NM_031010	Alox15	Arachidonate 15-lipoxygenase	0.29	
5	NM_001012029	Ifi204	Interferon activated gene 204	0.32	
6	XM_001061610	Irf4	Interferon regulatory factor 4	0.33	
7	NM_012548	Edn1	Endothelin 1	0.33	0.4197
8	NM_013076	Lep	Leptin	0.34	0.337
9	XM_001078162	Dapp1	Dual adaptor of phosphotyrosine and 3-phosphoinositides	0.34	
10	XM_001056345	Rtp4	Receptor (chemosensory) transporter protein 4	0.34	
11	NM_001008884	RT1-Db1	RT1 class II, locus Db1	0.35	
12	XM_001081280	Ankrd5	Ankyrin repeat domain 5	0.36	
13	XM_001067904	Gpr165	G protein-coupled receptor 165	0.37	
14	NM_139090	Acvr1c	Activin A receptor, type IC	0.37	
15	XM_001076258	Alpk1	Alpha-kinase 1	0.39	
16	NM_001025677	RGD1308782	Similar to Zinc finger protein OZF (POZF-1)	0.39	
17	XM_001064473	LOC683102	Similar to Cd209e antigen	0.39	
18	XM_343566	Tmeff2	Transmembrane protein with EGF-like and two follistatin-like domains 2	0.41	
19	XM_001072594	Gpr81	G protein-coupled receptor 81	0.41	
20	NM_020095	Kcnip2	Kv channel-interacting protein 2	0.41	
21	NM_001015027	Crebl2	CAMP responsive element binding protein-like 2	0.41	
22	NM_053960	Ccr5	Chemokine (C-C motif) receptor 5	0.42	
23	NM_001033961	Kcnip2	Kv channel-interacting protein 2	0.42	
24	NM_182738	Chp2	Calcineurin-like EF hand protein 2	0.43	
25	XM_001056385	Ptchd1	Patched domain containing 1	0.43	0.423
26	NM_013124	Pparg	Peroxisome proliferator-activated receptor gamma	0.43	0.434
27	NM_053391	Hs3st1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 1	0.44	
28	NM_020096	Ifit1	Interferon-induced protein with tetratricopeptide repeats 1	0.44	
29	NM_012689	Esr1	Estrogen receptor 1	0.44	
30	NM_001081451	Fam72a	Family with sequence similarity 72, member A	0.45	
31	NM_001008855	RT1-N3	RT1 class Ib, locus N3	0.45	
32	NM_001005551	Car5b	Carbonic anhydrase 5b, mitochondrial	0.45	
33	XM_001081158	Rad51c	Rad51 homolog c (S. cerevisiae)	0.45	
34	NM_001008858	RT1-T24-1	RT1 class I, locus T24, gene 1	0.45	
35	NM_013108	Adrb3	Adrenoceptor beta 3	0.45	
36	NM_201417	Rxfp1	Relaxin/insulin-like family peptide receptor 1	0.45	
37	NM_022217	Amph	Amphiphysin	0.46	
38	NM_012630	Prlr	Prolactin receptor	0.46	
39	XM_001071139	Layn	Layilin	0.46	
40	NM_001009709	Tmem140	Transmembrane protein 140	0.46	

Table S2 Upregulated genes with a fold change ≥ 1.5 in LBW pups

No.	NCBI Reference	Gene Symbol	Gene name	Expression level	qRT-PCR expression
1	XM_001072242	Mmp13	Matrix metalloproteinase 13	36.97	49.357
2	NM_012881	Spp1	Secreted phosphoprotein 1	32.53	44.150
3	NM_012587	Ibsp	Integrin-binding sialoprotein	26.60	110.778
4	NM_013414	Bglap	Bone gamma-carboxyglutamate (gla) protein	12.14	9.829
5	NM_199398	Panx3	Pannexin 3	9.22	
6	NM_022221	Mmp8	Matrix metalloproteinase 8	8.16	11.448
7	NM_031055	Mmp9	Matrix metalloproteinase 9	7.41	13.434
8	NM_013059	Alpl	Alkaline phosphatase, liver/bone/kidney	6.41	
9	XM_001073586	Tnn	Tenascin N	5.47	
10	XM_001070878	Stfa2	Stefin A2	4.94	
11	XM_001066956	Runx2	Runt-related transcription factor 2	4.80	
12	NM_170668	Slc13a5	Solute carrier family 13 (sodium-dependent citrate transporter), member 5	4.67	
13	NM_053587	S100a9	S100 calcium binding protein A9	4.55	
14	NM_001004129	Stfa2l1	Stefin A2-like 1	4.21	
15	NM_022190	Acan	Aggrecan	4.19	
16	NM_053822	S100a8	S100 calcium binding protein A8	4.14	
17	XM_001075585	Camp	Cathelicidin antimicrobial peptide	3.97	
18	XM_573293	Stfa2l3	Stefin A2-like 3	3.95	
19	NM_019144	Acp5	Acid phosphatase 5, tartrate resistant	3.93	
20	XM_001070786	Stfa2l2	Stefin A2-like 2	3.68	
21	XM_574777	RGD1560095	Similar to double homeobox, 4	3.62	
22	XM_574776	RGD1565550	Similar to double homeobox, 4	3.56	
23	XM_221411	Stfa2l2	Stefin A2-like 2	3.41	
24	XM_001073392	Olfm4	Olfactomedin 4	3.37	
25	NM_057211	Klf9	Kruppel-like factor 9	3.32	
26	NM_001013085	Snx10	Sorting nexin 10	2.96	
27	XM_574775	RGD1560135	Similar to double homeobox, 4	2.91	
28	XM_001075794	Ngp	Neutrophilic granule protein	2.78	
29	NM_181625	Retnlg	Resistin-like gamma	2.76	
30	XM_344827	RGD1563626	Similar to putative protein kinase	2.71	
31	XM_229238	LOC301772	Similar to Y-linked testis-specific protein	2.61	
32	XM_577732	RGD1561339	Similar to putative protein kinase	2.58	
33	XM_344836	RGD1565231	Similar to putative protein kinase	2.53	
34	NM_022528	Hif3a	Hypoxia inducible factor 3, alpha subunit	2.50	
35	XM_001053056	Col10a1	Collagen, type X, alpha 1	2.48	
36	XM_001072193	Anxa9	Annexin A9	2.45	
37	XM_577726	RGD1564848	Similar to putative protein kinase	2.44	
38	NM_013080	Ptprz1	Protein tyrosine phosphatase, receptor-type, Z polypeptide 1	2.44	
39	NM_053968	Mt3	Metallothionein 3	2.44	
40	XM_001065293	LOC685793	Similar to serine/threonine kinase	2.41	

Table S3. List all genes downregulated in LBW pups FC1.5

[Click here to Download Table S3](#)

Table S4. List all genes upregulated in LBW pups FC1.5

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