

Supplementary Table S1. Primers used for real-time PCR

Genes	Primers	Sequences (5' to 3' )
ATF4	Forward	AACATGGCCGAGATGAGCTTCC
	Reverse	TCTCCACCATCCAGTCTGTCCC
ATF6	Forward	CTCAGCTCATGGCTGTCCAA
	Reverse	AATGTGTCTCCCCTTCTGCG
bFGF	Forward	TCAAAGGAGTGTGTGCGAAC
	Reverse	CAGGGCCACATACCAACTG
CD31	Forward	AACCTCGCCCATTTCCTACC
	Reverse	CTGTTTTCCACTAAATCAGGGTC
CHOP	Forward	TTAAGTGTGACAAGGAGAAGAAC
	Reverse	CAAGGAAGGCAGAATAGAAGC
CytB	Forward	ATGAAACATTGGAGTAGTCCTACTATTTACC
	Reverse	CTACGAGGTCTGTTCCGATATAAGG
Claudin 1	Forward	CTAGTGATGAGGCAGATGAA
	Reverse	AGATAGGTCCGAAGCAGAT
GRP78	Forward	AGTCCCGCAGATTGAAGTCA
	Reverse	TCTTCAGGTGTCAGGCGATT
MMP2	Forward	ACTCCCACTTTGACGACGAT
	Reverse	CGTACTTGCCATCCTTGTCG
MMP9	Forward	GGTGGACTATGTGGGCTACG
	Reverse	AGTGCTGAAGCAGGACGAG
SLC1A5	Forward	GATTGTGGAGATGGAGGATGTGG
	Reverse	TGCGAGTGAAGAGGAAGTAGATGA
SLC7A2	Forward	TGCCCATACTTCCCGTCC
	Reverse	GGTCCAGGTTACCGTCAG
SLC7A5	Forward	TTTGTTATGCGGAACTGG
	Reverse	AAAGGTGATGGCAATGAC
SLC7A7	Forward	TTTGTTATGCGGAACTGG
	Reverse	AAAGGTGATGGCAATGAC
SLC7A9	Forward	CACAACAACCTGCGAGAAGGA
	Reverse	CCGTTGATAAGCGTCAGGAT
SLC36A1	Forward	TGTGGACTTCTTCCTGATTGTC
	Reverse	CGTTGTTGTGGCAGTTGTTGGT
SLC38A2	Forward	TACTTGTTCTGCTGGTGTCC
	Reverse	GTTGTGGGCTGTGTAAAGGTG
Occludin	Forward	GAGTGATTCGGATTCTGTCT
	Reverse	TAGCCATAACCATAGCCATAG
PDGF-C	Forward	GGAGTACAAGATCCCCAGCA
	Reverse	TCCAGCCCCAAATCTCTCATC
TGF-1 $\beta$	Forward	CAAGGTCCTGGCTCTGTACA
	Reverse	CAGGAACGCACGATCATGTT
VEGF-A	Forward	CCTCGGAGCGGAGAAAGCAT

18S rRNA	Reverse	TGTCACATCTGCAAGTACGTTTCG
	Forward	ATTCCGATAACGAACGAGACT
XBP-1	Reverse	GGACATCTAAGGGCATCACAG
	Forward	GCCTCCCCTTCTTCATCACT
Keap1	Reverse	TTTCTCTGAGGGGCTGGAAG
	Forward	CGTGGAGACAGAAACGTGGA
GLUT1	Reverse	CAATCTGCTTCCGACAGGGT
	Forward	CCTTCAGCCAGCAGTGATG
GLUT3	Reverse	AGCGTGGGATGTGGGTAAAG
	Forward	GCCTTGACCTTTCCCATAGACA
GLUT4	Reverse	CTACTTCCACCCAGAGCAAAGT
	Forward	TCTCCAACCTGGACCTCGAATTT
VEGFR2	Reverse	CCGCACAGTTGCTCCACATA
	Forward	GATGCTCGCCTCCCTTTGA
	Reverse	AGTTCCTTCTTTCAGTCGCCTACA

---

Table S2. Differentially expressed genes in jejunum between CON and LBW groups

Gene_name	LBW group					CON group					JNvsJL_log2 Fold Change	JNvsJL P- value
	JL1_fp km	JL2_fp km	JL3_f pkm	JL4_fp km	JL5_fp km	JN1_fp km	JN2_fp km	JN3_fp km	JN4_fp km	JN5_fp km		
NOX1	0.013	0.000	0.000	0.104	0.061	0.000	0.410	0.077	0.000	2.047	3.823	0.058
NOX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-
NOX4	0.335	0.567	0.273	1.021	0.616	1.278	0.495	0.638	0.938	1.003	0.629	0.113
NOX5	0.135	0.584	0.261	0.041	0.217	0.230	0.520	0.314	0.150	0.521	0.492	0.397
DUOX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-
DUOX2	18.062	0.600	8.343	83.877	16.581	1.733	2.877	1.290	2.722	8.557	-2.891	0.003
DUOXA2	3.532	0.137	1.390	15.368	2.673	0.432	0.272	0.092	0.491	0.693	-3.544	0.000
FGF1	2.398	1.422	1.947	2.224	1.769	0.973	0.572	0.113	1.168	1.167	-1.289	0.005
VEGFA	23.559	33.182	25.22 1	22.659	20.408	34.903	31.185	42.300	68.509	41.745	0.807	0.001
FGFBP1	19.668	11.178	8.812	24.590	22.534	0.471	0.473	0.112	1.815	1.119	-4.440	0.000
FGFR3	15.056	20.959	20.44 7	16.218	25.285	30.852	38.988	47.646	44.600	41.721	1.057	0.000
IGF1	0.454	0.292	0.232	0.443	0.297	1.777	0.948	0.435	0.270	0.531	1.204	0.012
IGF2R	12.500	15.690	11.75 4	14.451	13.525	27.421	24.313	33.605	18.894	19.599	0.866	0.000
ETFDH	11.303	14.540	12.38 8	12.163	15.488	14.661	20.250	17.751	19.042	10.799	0.325	0.129
GCH1	3.386	7.611	5.473	4.293	7.996	8.203	16.462	18.822	13.158	11.900	1.253	0.000
NQO1	41.871	13.491	8.244	80.811	12.666	7.040	7.410	8.485	7.633	5.128	-2.138	0.000
PNPT1	4.948	16.942	7.523	8.072	14.326	4.127	4.351	2.930	5.011	4.343	-1.319	0.000
SOD3	26.777	28.782	20.89 4	8.169	20.827	43.656	32.178	57.557	33.648	23.738	0.856	0.014
CAT	18.941	40.920	20.91 9	24.513	32.843	74.450	60.607	77.189	38.785	34.881	1.050	0.001
OCEL1	28.175	22.316	28.75 2	13.933	15.823	32.909	35.755	62.240	46.342	31.776	0.940	0.001
CLDN15	0.720	0.899	1.060	0.647	0.556	1.774	1.589	1.230	1.017	2.008	0.977	0.000
CD58	4.847	7.218	4.370	6.590	6.733	10.404	11.041	9.956	8.119	8.038	0.676	0.001
KRT8	1426.7 26	588.14 6	732.9 95	633.97 8	920.24 3	291.77 1	423.86 3	417.70 1	624.38 8	561.81 3	-0.891	0.003
CLDN3	630.08 5	680.76 0	864.7 89	361.99 9	675.14 5	559.25 0	793.20 1	1348.4 93	1444.6 48	1293.0 74	0.759	0.016
PRDX5	15.691	14.971	12.90 3	8.873	17.216	23.625	30.155	39.958	30.796	22.764	1.080	0.000
PRDX6	86.702	58.153	85.01 2	145.12 3	76.970	47.212	50.462	60.363	59.425	36.699	-0.831	0.002
PRDX6	86.702	58.153	85.01 2	145.12 3	76.970	47.212	50.462	60.363	59.425	36.699	-0.831	0.002

PRDX1	344.04	433.55	365.3	293.45	432.76	238.19	279.55	265.06	335.72	254.75	-0.445	0.013
	4	7	94	1	8	2	0	5	5	5		