

**Supplementary Table S1: List of primer sequences used and genes investigated.**

<b>Gene</b>	<b>Protein</b>	<b>Forward sequence (5'-3')</b>	<b>Reverse sequence (5'-3')</b>	<b>Amplicon length*</b>
<i>HPRT1</i>	Hypoxanthine Phosphoribosyl Transferase 1	TATGGACAGGACTGAACGGC	ACACAGAGGGCTACGATGTG	75
<i>CPT1A</i>	Carnitine Palmitoyl Transferase 1A	AAGATGGGCATGAACGCTGA	GTGGCCGTCCTCCTCATAAC	114
<i>CXCL9</i>	CXC chemokine ligand 9	GAAAAGCAGTGTTGCCTTGCT	TGATGCAGGAACAACGTCCAT	98
<i>CXCL10</i>	CXC chemokine ligand 10	ATCATCCCGAGCTGTTGAGC	CCAGGACTTGGCACATTAC	94
<i>GATA3</i>	GATA binding protein 3	ACCCCTTATTAAGCCCAAGC	TCCAGAGAGTCGTCGTTGTG	92
<i>HIF1A</i>	Hypoxia-inducible factor 1 alpha	TGTGTTATCTGTCGCTTTGAGTC	TTTCGCTTTCTCTGAGCATTC	96
<i>HK1</i>	Hexokinase 1	TTTCCCTTGTCGGCAATCCA	CCTCCACTCCGCTTGCTTTA	80
<i>IFNG</i>	Interferon gamma	AGCTTTGCGTGACTTTGTGT	ATGCTCCTTTGAATGGCCTG	247
<i>IL2</i>	Interleukin 2	AAGCTCTGGAGGGAGTGCTA	CAACAGCAGTTACTGTCTCATCA	159
<i>IL4</i>	Interleukin 4	GTACCAGCAACTTCGTCCAC	CCTTCTCCGTCGTGTTCTCT	150
<i>IL6</i>	Interleukin 6	TGCCACCTCAGACAAAATGC	AGGTTTCAGGTTGTTTTCTGCC	159
<i>IL10</i>	Interleukin 10	GTCCGACTCAACGAAGAAGG	GCCAGGAAGATCAGGCAATA	73
<i>IL17</i>	Interleukin 17	GCACACGGGCTGCATCAACG	TGCAACCAACAGTGACCCGCA	149
<i>IGF1</i>	Insulin-like growth factor 1	ATTTCTTGAAGGTAAAGATGCA	CAGCCCCACAGAGGGTCTCA	117
<i>PDHA1</i>	Pyruvate dehydrogenase $\alpha$ 1	GTCAGGAAGCTTGTTGCGTG	GGTAAAGCCATGAGCTCGGT	86
<i>PKM</i>	Pyruvate kinase M1/2	GCCCTGGACTACTAAAGGACC	CAGCCACAGGACATTCTCGT	147
<i>PPARG</i>	Peroxisome proliferator activated receptor gamma	TGACCATGGTTGACACCGAG	GATCAGCTCTCGGGAATGGG	128
<i>RORC</i>	Retinoic acid-related orphan receptor	CAGCGCTCCAACATCTTCTC	GACCAGCACCCTTCCATTG	207
<i>STAT3</i>	Signal Transducer and Activator of Transcription 3	ACATCCTTGTGTCTCCGCTG	GTATGGGGCAGCACTACCTG	125
<i>T-bet</i>	T-Box transcription factor	CTGAGAGTCGCGCTCAACAA	ACCCGGCCACAGTAAATGAC	121
<i>TGFB1</i>	Transforming growth factor beta 1	GCAAGGTCCTGGCTCTGTA	TAGTACACGATGGGCAGTGG	97
<i>TLR2</i>	Toll-like receptor 2	CGTGTGCTATGACGCTTTCG	GTACTTGCACCACTCGCTCT	232
<i>TLR4</i>	Toll-like receptor 4	TGGTGTCCCAGCACTTCATA	CAACTTCTGCAGGACGATGA	116
<i>TNFA</i>	Tumor necrosis factor alpha	ATTCAGGGATGTGTGGCCTG	CCAGATGTCCCAGGTTGCAT	120

\*: Length in base pairs

**Supplementary Table S2: Hematological parameters in preterm pigs supplemented with IGF-1**

	<b>Day</b>	<b>Placebo</b>	<b>IGF-1</b>	<b>P</b>
Lymphocyte fraction (% of leucocytes)	8	33.1 (3.1)	30.9 (3.7)	NS
	19	41.5 (4.0)	41.8 (3.0)	NS
Monocytes fraction (% of leucocytes)	8	1.2 (0.2)	1.6 (0.4)	NS
	19	2.8 (0.3)	2.4 (0.3)	NS
Neutrophil fraction (% of leucocytes)	8	63.9 (3.0)	62.7 (3.2)	NS
	19	51.9 (4.1)	51.8 (2.6)	NS
Banded neutrophils (10 <sup>9</sup> cells/L)	8	0.075 (0.05)	0.133 (0.07)	NS
	19	0.100 (0.07)	0.328 (0.31)	NS
Banded neutrophil fraction (% of neutrophils)	8	1.2 (0.6)	3.9 (2.0)	NS
	19	1.3 (0.8)	5.7 (5.4)	NS
Basophils (10 <sup>9</sup> cells/L)	8	0.1 (0.0)	0.2 (0.1)	NS
	19	0.4 (0.2)	0.3 (0.1)	NS
Basophils fraction (% of leucocytes)	8	0.1 (0.0)	0.2 (0.1)	NS
	19	0.4 (0.2)	0.3 (0.1)	NS
Eosinophils (10 <sup>9</sup> cells/L)	8	0.03 (0.01)	0.02 (0.0)	NS
	19	41.5 (4.0)	41.8 (3.0)	NS
Eosinophils fraction (% of leucocytes)	8	0.4 (0.1)	0.4 (0.1)	NS
	19	1.1 (0.3)	0.8 (0.2)	NS
Platelets (10 <sup>9</sup> cells/L)	8	427 (80)	363 (37)	NS
	19	609 (86)	714 (73)	NS

Data are shown as means with corresponding standard errors. NS: Not significant