

Table S1. Ingredient composition and nutrient levels of the basal diet

Ingredient and nutritive level	25-65 kg	65 kg-slaughter
Ingredient (%)		
Corn	74.92	81.70
Soybean meal	17.44	11.10
Soybean oil	2.28	2.36
Fishmeal	2.50	-
Wheat bran	-	2.10
L-lysine HCl	0.41	0.40
DL-Methionine	0.13	0.10
L-Threonine	0.15	0.14
L-Tryptophan	0.03	0.03
Choline chloride	0.15	0.15
Limestone	0.76	0.71
CaHPO ₄	0.70	0.68
NaCl	0.30	0.30
Mineral premix ¹	0.20	0.20
Vitamin premix ²	0.03	0.03
Total	100.00	100.00
Nutrient level (%)		
Digestible energy (Mcal/kg)	3.40	3.40
Crude protein	15.71	12.14
Calcium	0.68	0.54
Available P	0.32	0.24
Digestible lysine	0.98	0.73
Digestible Methionine + Cysteine	0.55	0.42
Digestible Threonine	0.59	0.46
Digestible Tryptophan	0.17	0.13

¹ Mineral premix provides per kg of basal diet:

25-65kg: Se 0.2 mg, I 0.14 mg, Zn 60 mg, Cu 4 mg, Fe 60 mg, Mn 2 mg;

65kg-slaughter: Se 0.15 mg, I 0.14 mg, Zn 50 mg, Cu 3 mg, Fe 40 mg, Mn 2 mg.

² Vitamin premix provides per kg of basal diet: Vitamin A, 9000 IU; Vitamin D₃, 3000 IU; Vitamin E, 24 IU; Vitamin K₃, 3.0 mg; Vitamin B₁₂, 0.036 mg; Vitamin B₁, 3 mg; Vitamin B₆, 3.6 mg; Vitamin B₂, 7.5 mg; Vitamin B₅, 15 mg; Folic acid, 1.5 mg; Biotin, 0.15 mg; Nicotinamide, 30 mg.

Genes	Sequence	GenBank accession no.
<i>GAPDH</i>	F:5'-ACTCACTCTTCTACCTTTGATGCT-3'	NM_001206359.1
	R:5'-TGTTGCTGTAGCCAAATTCA-3'	
<i>MyHC I</i>	F:5'-CGTGGACTACAACATCATAGGC-3'	NM_213855
	R:5'-CCTTCTCAACAGGTGTGTCG-3'	
<i>MyHC IIa</i>	F:5'-CATTGAGGCCAAGAATAGGC-3'	NM_214136
	R:5'-TGCTTCCGTCTTCACTGTCAC-3'	
<i>MyHC IIb</i>	F:5'-GACTCTGGCTTTCCTCTTTGC-3'	NM_001123141
	R:5'-GAGCTGACACGGTCTGGAAA-3'	
<i>MyHC IIx</i>	F:5'-TTGACTGGGCTGCCATCAAT-3'	NM_001104951
	R:5'-GCCTCAATGCGCTCCTTTTC-3'	
<i>Myoglobin</i>	F:5'-GGAAGGTGGAGGCTGATGTC-3'	NM_214236
	R:5'-CCGTGCTTCTTCAGGTCCTC-3'	
<i>AMPKα1</i>	F:5'-CGGCAAAGTGAAGGTTGG-3'	NM_001167633
	R:5'-AGGTTCTGAATTTCTCTGCGG-3'	
<i>AMPKα2</i>	F:5'-TGAGGTCGATATCTGGAGCTG-3'	NM_214266
	R:5'-AGTGGCAACAGAACGATTGAG-3'	
<i>CaMKKβ</i>	F:5'-CAGCTCCCCTCATTAGGGT-3'	XM_021073030.1
	R:5'-CAGCTCACGCCACCAATTA-3'	
<i>NRF1</i>	F:5'-CCTTGTGGTGGGAGGAATGTT-3'	XM_005657993
	R:5'-AGTATGCTGGCTGACCTTGTG-3'	

Table S2. Primers used in real-time quantitative PCR