Supplementary Table 1 The composition and nutrient levels of basal diets

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|  | Content |
| Diet composition, % |  |
| Corn | 30.18 |
| Extruded corn | 29.00 |
| Soybean meal | 10.76 |
| Extruded soybean | 10.00 |
| Wheat bran |  2.00 |
| Soybean protein concentrate |  5.00 |
| Corn starch |  0.50 |
| Whey powder |  4.00 |
| Fish meal |  4.00 |
| Soybean oil |  1.78 |
| CaHPO4 |  0.55 |
| CaCO3 |  0.70 |
| NaCl |  0.30 |
| L-Lysine·HCl |  0.33 |
| DL-Methionine |  0.09 |
| L-Threonine |  0.15 |
| L-Tryptophan |  0.03 |
| Choline chloride |  0.10 |
| Vitamin premixa |  0.03 |
| Mineral premixb |  0.50 |
| Nutrient levels, %c |  |
| Metabolic energy, MJ/kg | 14.83 |
| Crude protein | 20.56 |
| Calcium |  0.80 |
| Phosphorus available |  0.40 |
| Total lysine |  1.35 |
| Total methionine and cysteine |  0.74 |
| Total threonine |  0.79 |
| Total tryptophan |  0.22 |

a Provided the following per kg of diet: Vitamin A 8000 IU, Vitamin D3 1500 IU, Vitamin E 25 IU, Vitamin K3 2.0 mg, Vitamin B1 2.0 mg, Vitamin B2 5.0 mg, Vitamin B6 4.0 mg, Vitamin B12 0.1 mg, Niacin 25 mg, Pantothenic acid 12 mg, Folic acid 0.75 mg, Biotin 0.2 mg.

b Provided the following per kg of diet: Fe 100 mg, Cu 6 mg, Mn 4 mg, Zn 100 mg, I 0.14 mg, Se 0.35 mg.

c Nutrient levels were calculated values.

Supplementary Table 2 Primer sequences used for real-time PCR

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| Gene | Primer | Nucleotide sequences 5’-3’ |
| *β-actin* | Forward | TCTGGCACCACACCTTCT |
|  | Reverse | TGATCTGGGTCATCTTCTCAC |
| *pBD1* | Forward | TCCTTGTATTCCTCCTCA |
|  | Reverse | CAAATCCTTCACCGTCTACCA |
| *pBD2* | Forward | TGTCTGCCTCCTCTCTTCC |
|  | Reverse | ACACGCCTTTATTCCTTA |
| *pBD3* | Forward | CCTTCTCTTTGCCTTGCTCTT  |
|  | Reverse | CCTTCTCTTTGCCTTGCTCTT  |
| *TLR3* | Forward | CTCGCTGATTCTCCTCTTCTC |
|  | Reverse | TCTCCATTCCTGTCCTGTGA |
| *RIG-I* | Forward | AGGATTCGCAGCGTGGAG |
|  | Reverse | GCAGTGACCGTGACAGACC |
| *MDA5* | Forward | AGACTTGGCTGATCTGTGGC |
|  | Reverse | ACCTGGCACGGAGCTCTTAT |
| *MAVS* | Forward | AGAAGCAGGACACAGAAC |
|  | Reverse | GAAGGAGACAGTCGGAGA |
| *IFN-β* | Forward | CGATACCAACAAAGGAGCAG |
|  | Reverse | GGTTTCATTCCAGCCAGT |
| *ISG-15* | Forward | ACCATTTCTGGCTGACTTTC |
|  | Reverse | ACATAGGCTTGAGGTCATACT |

pBD1, porcine beta-defensin 1; pBD2, porcine beta-defensin 2; pBD3, porcine beta-defensin 3; TLR3, Toll-like receptor 3; RIG-I, retinoic acid inducible protein 1; MDA5, melanoma differentiation-associated protein 5; MAVS, mitochondrial antiviral signaling protein; IFN-β, interferon-beta; ISG-15, interferon stimulated gene 15.