

Table S1. Composition and nutrient levels of basal diet

Item, %	Amount
Corn	57.72
Wheat bran	5.00
Soybean oil	2.00
Soybean meal	23.30
CaCO ₃	9.70
Calcium hydrophosphate	1.05
NaCl	0.40
L-Lysine·HCl	0.10
DL-Methionine	0.10
Tryptophan	0.05
Threonine	0.05
Choline chloride	0.10
Vitamin premix ¹	0.03
Mineral premix ²	0.40
Total	100.00
Analyzed nutrient levels, %	
ME, kcal/kg	2650.00
Crude protein	15.50
Calcium	4.00
Total phosphorus	0.53
Lysine	0.77
Methionine	0.36
Methionine + cysteine	0.58

¹Provided per kilogram of diet: vitamin A, 8000 IU; vitamin B₁, 0.4 mg; vitamin B₂, 1.2 mg; D-pantothenate, 5 mg; vitamin B₆, 7.55 mg; vitamin B₁₂, 6 µg; vitamin D₃ 2000 IU; vitamin E 5 IU, vitamin K₃ 1 mg; biotin, 4 mg; niacin acid 7 mg; folic acid 100 µg.

²Provided per kilogram of diets: Cu (as copper sulfate): 8 mg, Fe (as ferrous sulfate) 60 mg, Mn (as manganese sulfate) 60 mg, Zn (as zinc sulfate) 80 mg, I (as potassium iodide) 1 mg, Se (as sodium selenite) 0.30 mg.

³Calculated according to NRC (1994).

Table S2. Related gene and primer information

Genes	Orientati on	Primer Sequences (5'-3')	Product size	Accession number
<i>Caspase 3</i>	Forward	AAAGATGGACCACGCTC AGG	204	NM_204725
	Reverse	TGAACGAGATGACAGTC CGG		
<i>Caspase 9</i>	Forward	TATGGTGGAGGACATGC AGA	99	XM_424580.5
	Reverse	AATATTGGGAAGGCCTG CTT		
<i>Bcl-2</i>	Forward	ACCATGAATGAAACCGT GCC	181	NM_205339.2
	Reverse	TTGTCGTAGCCTCTTCTC CC		
<i>Bax</i>	Forward	GTACGTCAATGTGGTCA CCC	210	XM_01527488 2
	Reverse	TGGGATAATGCTGGGGT TGA		
<i>SIRT1</i>	Forward	TAGCCAATGGTTTCCAC TCC	149	NM_00100476 7.1
	Reverse	AAGAATTGTCCGTGGGT CTG		
<i>FoxO1</i>	Forward	AAGAGCGTGCCCTACTT CAA	125	NM_204328.1
	Reverse	TTCCCTGTTCCCTCATTC TG		
<i>P53</i>	Forward	TACTCCCCGGTGCTGAA TAA	134	NM_205264.1
<i>SIRT1</i>	Forward	TAGCCAATGGTTTCCAC TCC	149	NM_00100476 7.1
	Forward	GCTACAGCTTCACCACC ACA		
<i>β-actin</i>	Forward	GCTACAGCTTCACCACC ACA	90	NM_205518.1
	Reverse	TCTCCTGCTCGAAATCC AGT		