

**Supplementary Tables**
**Table S1.** Composition of basal diets (as-fed basis)

<b>Ingredients</b>	<b>Ratio (%)</b>	<b>Nutrient composition</b>	
Corn	57.70	Digestible energy (MJ/kg)	14.04
Soybean meal	12.50	Crude protein (%)	18.31
Expanded corn	8.00	Lysine (%)	1.31
Full-fat soybean	8.00	Methionine (%)	0.40
Soybean meal, fermented	4.00	Methionine + Cystine (%)	0.70
Whey powder	3.00	Threonine (%)	0.80
Fish meal (crude protein 67%)	3.00	Calcium (%)	0.85
Dicalcium phosphate	1.80	Total phosphorus (%)	0.72
Limestone	0.50		
L-lysine (78 %)	0.30		
L-threonine	0.10		
DL-methionine	0.08		
Wheat middling and reddog	0.02		
Premix <sup>a</sup>	1		
Total	100		

In the experiment 2, NBW and IUGR groups were fed with a basal diet, and the NC and IC groups were fed with a basal diet supplemented with 400 mg/kg curcumin.

<sup>a</sup>The premix supplied the following per kg complete diet: vitamin A, 12000 IU; vitamin D<sub>3</sub>, 3000 IU;  $\alpha$ -tocopherol, 50 mg; vitamin K<sub>3</sub>, 4 mg; vitamin B<sub>1</sub>, 4 mg; vitamin B<sub>2</sub>, 10 mg; vitamin B<sub>6</sub>, 7 mg; vitamin B<sub>12</sub>, 0.05 mg; niacin, 30 mg; pantothenic acid, 15 mg; folic acid, 0.3 mg; biotin, 0.08 mg; choline chloride, 500 mg; Fe (FeSO<sub>4</sub>·H<sub>2</sub>O), 110 mg; Cu (CuSO<sub>4</sub>·5H<sub>2</sub>O), 7 mg; Zn (ZnO), 110 mg; I (KIO<sub>3</sub>), 0.3 mg; Mn (MnSO<sub>4</sub>·H<sub>2</sub>O), 5 mg; Se (Na<sub>2</sub>SeO<sub>3</sub>), 0.3 mg.

**Table S2.** Primer sequences used for quantitative real-time PCR assays

Gene	Accession no.	Primer, 5'-3'
<i>Nfe2l2</i>	NM_006164.4	CTCCGGGTGTGTTTGTTC CA
<i>Hmox1</i>	NM_001004027.1	GTTGTTTGC GAAGGTCGCTG CAACCCTGTGAATGCAACCG CACATGCCCAACAAGGAAGC
<i>Cat</i>	NM_214301.2	TGTGAACTGTCCCTTCCGTG CGTCTGTTCGGGAGCACTAA
<i>Gpx1</i>	NM_214201.1	TGGGGAGATCCTGAATTGCC CGAAGAGCATGAAGTTGGGC
<i>Actb</i>	XM_003124280.4	CAGTCGGTTGGATGGAGCAT AGGCAGGGACTTCCTGTAAC

*Nfe2l2*, nuclear factor, erythroid 2-like 2; *Hmox1*, Haeme oxygenase-1; *Cat*, catalase; *Gpx1*, glutathione peroxidase 1; *Actb*,  $\beta$ -actin.



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