



# Supplementary Materials

**Table S1.** The nutrient and energy composition of the standard mouse chow.

<b>Iron (Fe)</b>	<b>≥ 100 mg</b>	<b>Vitamin A</b>	<b>≥ 7000 IU</b>	<b>Vitamin B1</b>	<b>≥ 8 mg</b>	<b>Lysine</b>	<b>≥ 8.2 g</b>
Manganese (Mn)	≥ 75 mg	Vitamin D	≥ 800 IU	Vitamin B2	≥ 10 mg	Egg + Cystine	≥ 5.3 g
Copper (Cu)	≥ 10 mg	Vitamin E	≥ 60 IU	Vitamin B6	≥ 6 mg	Arginine	≥ 9.9 g
Zinc (Zn)	≥ 30 mg	Vitamin K	≥ 3 mg	Vitamin B12	≥ 0.02 mg	Histidine	≥ 4 g

Raw material composition: corn, soybean meal, flour, bran, fish flour, salt, calcium hydrogen phosphate, rock flour, multivitamins, multiple trace elements, amino acids, etc.

**Table S2.** RT-qPCR primer sequences.

Gene	Primer	Primer sequence (5'-3')
β-actin	β-actinF	CTGGAACGGTGAAGGTGA
	β-actinR	TTTGAAAGGCAGGGACT
Nrf2	Nrf2F	AATGCATCTTATGCCGGTG
	Nrf2R	TCTTTGAATCTGTCCGAGAAT
NQO1	NQO1F	TGCCTTCCTTGACTTGCT
	NQO1R	TCCCGGCTTTACATCCTA
HO-1	HO-1F	AGCTGTTTCTGAGCCTCCAA
	HO-1R	CAAGACGGAAACACGAGACA
pIgR	pIgRF	CAGACATTAGCATGGCAGACTTCAA
	pIgRR	TGCCGAGTAGGCCATGTCAG
J Chain	J ChainF	TTTGTTAAGGCTGTCCTTGT
	J ChainR	AAGTGGAGCTGGAAGATCAG
α-chain	α-chainF	TGAGCGCTGGAACAGTGGCG
	α-chainR	TCAGGGCCAGCTCCTCCGAC
ZO-1	ZO-1F	AGGACACCAAAGCATGTGAG
	ZO-1R	GGCATTCCCTGCTGGTTACA
OCLN	OCLNF	GCTGTGATGTGTGTGAGCTG
	OCLNR	GACGGTCTACCTGGAGGAAC
IL-13	IL-13F	AGACCAGACTCCCCTGTGCA
	IL-13R	TGGGTCCTGTAGATGGCATTG
IL-10	IL-10F	CGCAGCTCTAGGAGCATGTG
	IL-10R	GCTCTTACTGACTGGCATGAG
COX-2	COX-2F	ACCACACTTCATGCATCAGC
	COX-2R	ACTTGGAGCACAGGGTCT
iNOS	iNOSF	CAGCTGGGCTGTACAAACCTT
	iNOSR	CATTGGAAGTGAAGCGTTTCG