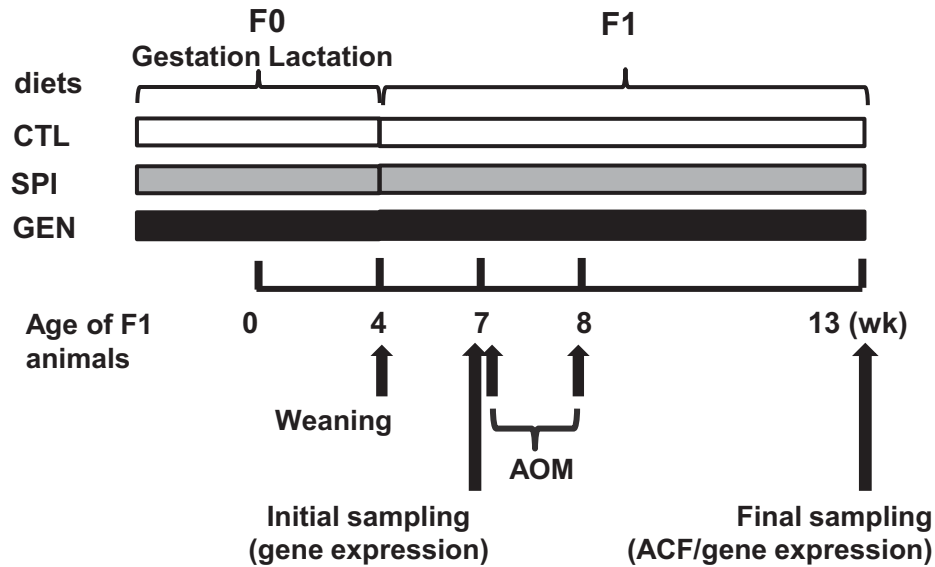
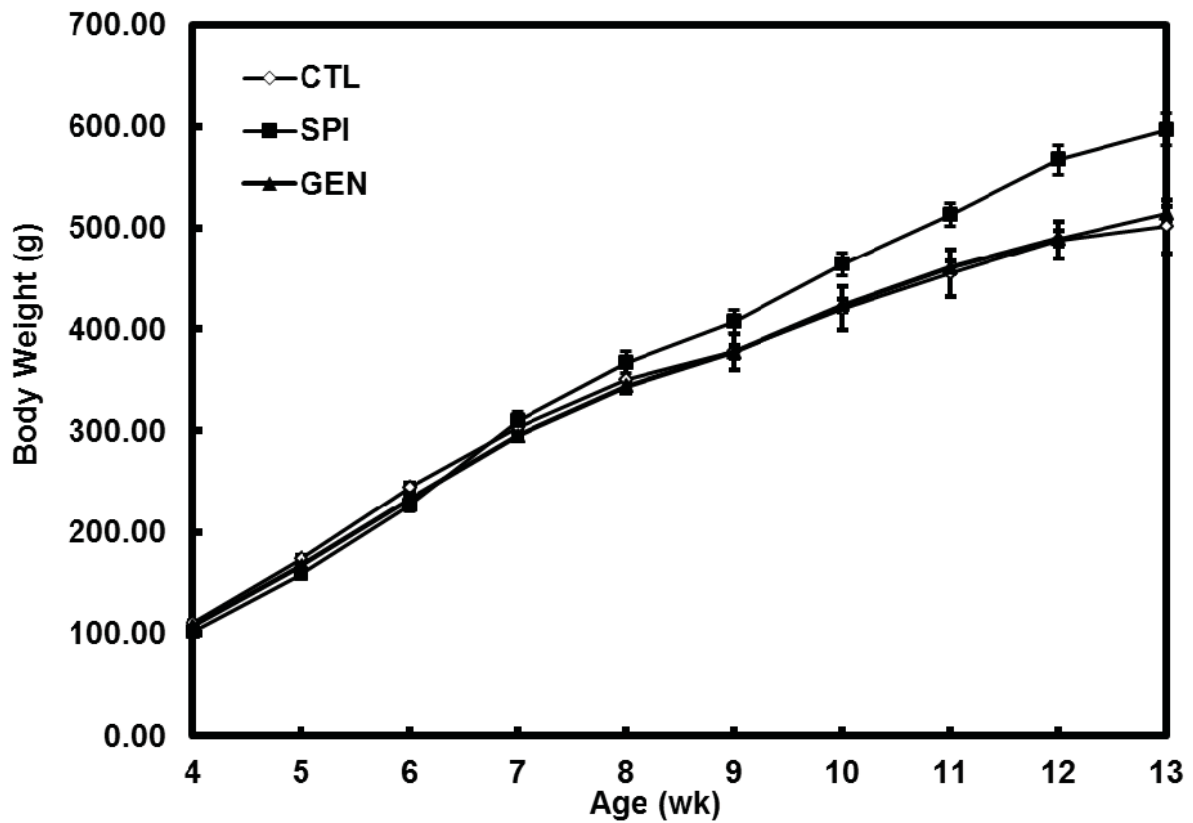


Supplemental figure 1



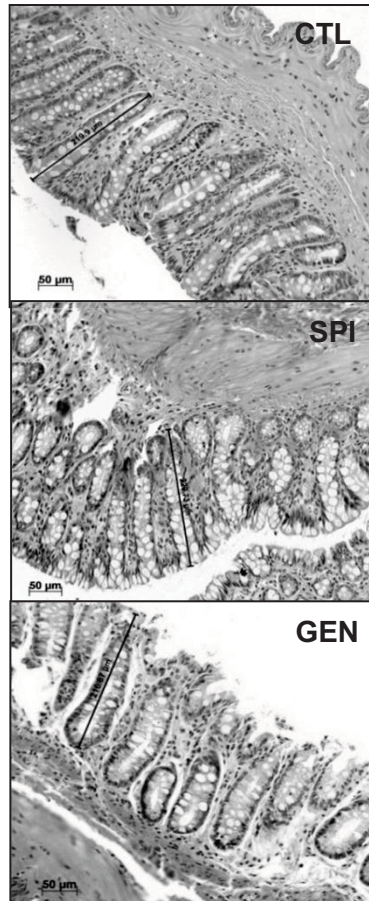
Experimental design. Pregnant Sprague-Dawley rats (F_0) were separately fed CTL diet (0 mg of genistein /kg of diet), SPI diet (containing 140 mg of genistein /kg of diet), or genistein diet (140 mg of genistein /kg of diet) throughout gestational and lactating periods. After weaning, the male pups (F_1) were continuously exposed to the same diet as their mother. AOM injections were performed once a week for 2 wk at wk 7. The initial sampling was performed before AOM injection at 7 wk. ACF data were collected at 13 wk.

Supplemental figure 2



Body weight (g) of offspring rats fed on the control (CTL, 0 mg/kg of genistein), soy protein isolates (SPI, 140 mg/kg of genistein) and genistein (GEN, 140 mg/kg of genistein) diet. Data are means \pm SEM.

Supplement figure 3



Representative H&E staining of colon sections. The depth of crypt was measured as: CTL: 219.90 µm; SPI: 229.73 µm; GEN: 216.87 µm. Scale: 50 µm.

Supplemental Table 1 Diet compositions

	CTL	Diet SPI	GEN
Protein source , % weight	Casein, 20	Soy protein isolate, 20	Casein, 20
Fat (corn oil), % weight	7	7	7
Carbohydrate , % weight	62.9	61.9	62.9
Fiber , % weight	5	5	5
Metabolizable energy (kJ/g)	15.7	15.7	15.7

Supplemental Table 2 List of real time PCR primers for rat

Gene	Forward Primer (5'-3')	Reverse Primer (5'-3')	Ensembl Transcript ID
<i>Cyclin D1</i>	AGGGAGATTGTGCCATCCATGC	TCCTCTTCGCACTTCTGC	ENSRNOT00000028411
<i>c-Myc</i>	TGGAGTGAGAAGGGCTTTGCCT	TGTTGGGTCAGCGGGAGGAT	ENSRNOT00000006188
<i>Wnt1</i>	CCCCGTGACCTCTCTGTGTATCAC	TGAAGCCCAGGTGTGGTGGTT	ENSRNOT00000019641
<i>Wnt5a</i>	GCGTGGCTATGACCAGTTTAAGA	TCCACAATCTCCGTGCACTTT	ENSRNOT00000021164
<i>Sfrp1</i>	TTAAGTGACGCTGGGGTGGACTG	CCAAGAGCCAGGGTCATTCACAC	ENSRNOT00000024128
<i>Sfrp2</i>	TGCCACGGCATCGAGTACCA	GCTCCAGCACCTCCTTCATGGT	ENSRNOT00000012658
<i>Sfrp5</i>	GTGACCAAGATCTGTGCCCAGTG	CGAAGTCGCTGGAGCACATCTG	ENSRNOT00000020182
<i>L7a</i>	GAGGCCAAAAAGGTGGTCAATCC	CCTGCCCAATGCCGAAGTTCT	ENSRNOT00000006754