

Table S1 Primer sequences used for quantitative real-time PCR

Gene	GenBank	Primer sequences ^a	size, bp
β -actin	NM_205518.1	F: ATTGTCCACCGCAAATGCTTC R: AAATAAAGCCATGCCAATCTCGTC	113
<i>Sirt1</i>	NM_001004767.1	F: CACGCCTTGCTGTAGACTTCC R: ATGAACTTGTGGCAGAGAGATGG	148
<i>LPL</i>	NM_205155.3	F: CAGTGCAACTTCAACCATAACCA R: AACCAAGCCAGTCCACAACAA	150
<i>FASN</i>	NM_205155.3	F: TCCTGACTCTCCTGACCATTACT R: TGTTCCATGACCATGCCAAGA	126
<i>ATGL</i>	NM_001113291.1	F: GCAACCTCTACCGCCTCTCAA R: TTGGACGCTGAAGGTGAAGGA	132
<i>PPAR-γ</i>	373928	F: GTGACCTTAATTGTCGCATCCAT R: GCTTCTCCCTCTCCGCTTGTG	135
<i>HSL</i>	112533458	F: CCATCCTGTCCGTCGATTACTC R: GCAGTAGGCGTAGAACGACTC	80
<i>SREBP1</i>	NM_204126.3	F: CGCTACCGCTCATCCATCAAC R: CCTCAGGATCGCCGACTTGT	93
<i>C/EBPα</i>	NM_001031459.2	F: CGCTACCGCTCATCCATCAAC R: CCTCAGGATCGCCGACTTGT	99

^a F, forward; R, reverse

Table S2 Analysis of differences in ANOISM among the groups

Treatment	¹r value	²p value
CON vs ILE400	0.433	0.001
CON vs ILE800	1	0.001
ILE400 vs ILE800	1	0.001

¹ r value between (-1,1); r value > 0 indicating significant differences between groups, r value < 0 indicating within difference are greater than inter-group differences. ² p < 0.05 indicates statistical significance. CON, broiler chickens receiving basal diet; ILE400, basal diet supplemented with 400 mg/kg Ile; ILE800, basal diet supplemented with 800 mg/kg Ile

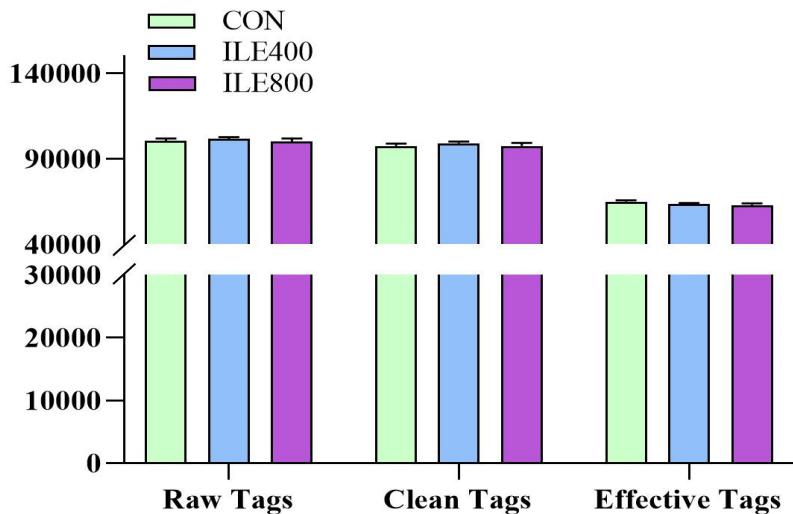


Figure S1. Sequencing data; Raw Tags indicate the raw sequence; low quality and short length sequences in raw tags are filtered out to get Clean Tags and Effective Tags are the final sequence for subsequent analysis. CON, broiler chickens were fed the basal diet; ILE400, basal diet supplemented with 400 mg/kg Ile; ILE800, basal diet supplemented with 800 mg/kg Ile. The values are presented as the mean and standard error of mean (SEM), and statistically significant differences were those with ^{a,b} $p < 0.05$.