

Supplementary material

Astaxanthin reduces fat storage in *fat-6/fat-7* dependent manner determined by *Caenorhabditis elegans*—a critical and unique tool

Junting Xie^{†,‡}, Xiaoning Hou^{†,‡}, Wanshi He^{†,‡}, Jie Xiao^{†,‡}, Yong Cao^{†,‡}, Xiaojuan Liu^{*,†,‡}

[†] Guangdong Provincial Key Laboratory of Nutraceuticals and Functional Foods,
College of Food Science, South China Agricultural University, Guangzhou, 510642,
Guangdong China

[‡] Guangdong Laboratory for Lingnan Modern Agriculture, Guangzhou 510642, China

Figure S1. Trend of the growth of *E.coli* OP50 treating with astaxanthin

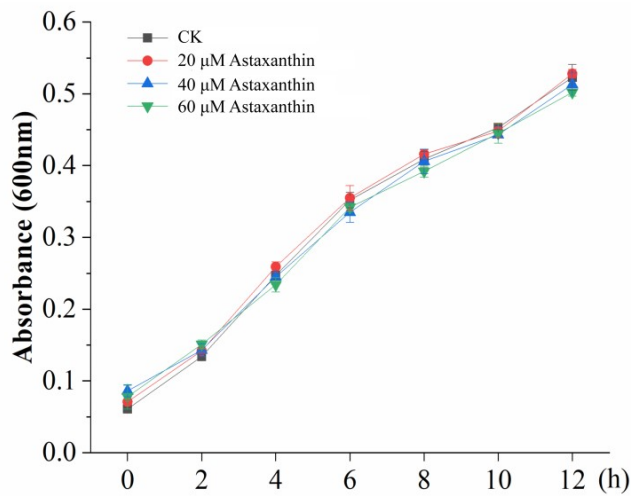


Table 1

Real-time fluorescent quantitative PCR primers.

Source	Forward primer sequence (5' to 3')	Reverse primer sequence (5' to 3')
<i>act-1</i>	CTGTCCTCTCCCTCTACGCTTCC	CAGTAAGATCACGTCCAGCCAAGTC
<i>fat-5</i>	GCCCTCTTCCGTTACTGCTTCAC	CTTCTCCGACTGCCGCAATAGATG
<i>fat-6</i>	GCGCTGCTCACTATTTTCGGATGG	GTGGGAATGTGTGATGGAAGTTGTG
<i>fat-7</i>	GCTGACGAGAAGCCAGTTCTTC	GAGACCTCGTCAATCATTTCACCAC
<i>sbp-1</i>	CATGAATTCATTCGAGGGAGACGTCCC	CATGAATTCCTGATGTGGAGTCATCGC
<i>mdt-15</i>	ATGCTATGTTGGGTAATGGTCAGGTG	CTGCTGTTGGTGTGCTGTTGATG
<i>nhr-49</i>	CTTCGGATTGGCAGAGGTGGATTC	CGGCTGGATTAAACGGAGATACCC
<i>acs-2</i>	ACGCCTCGCATTCTCTCCTCTC	TGTTGGTGGAAGAAGCATCCTTGG
<i>aak-2</i>	CATATCATCCGCCTCTACCAAGTCATC	CGTCCGTGCTTAACAATGTAGTCAAAG
<i>nhr-80</i>	ATGGAGTTGGCTGGGAGGATGAG	AGGCATGATCTCGTCGGTGATTTG
<i>daf-2</i>	TATGTGGCGTGAGAATGAAGTGAGC	CTGGCTTATCGGCTACAATCGTCTC
<i>daf-16</i>	CCACCACCATCATAACGAGTTG	CATTGGCTTGAAGTTAGTGCTTGGC