

Supplementary Material

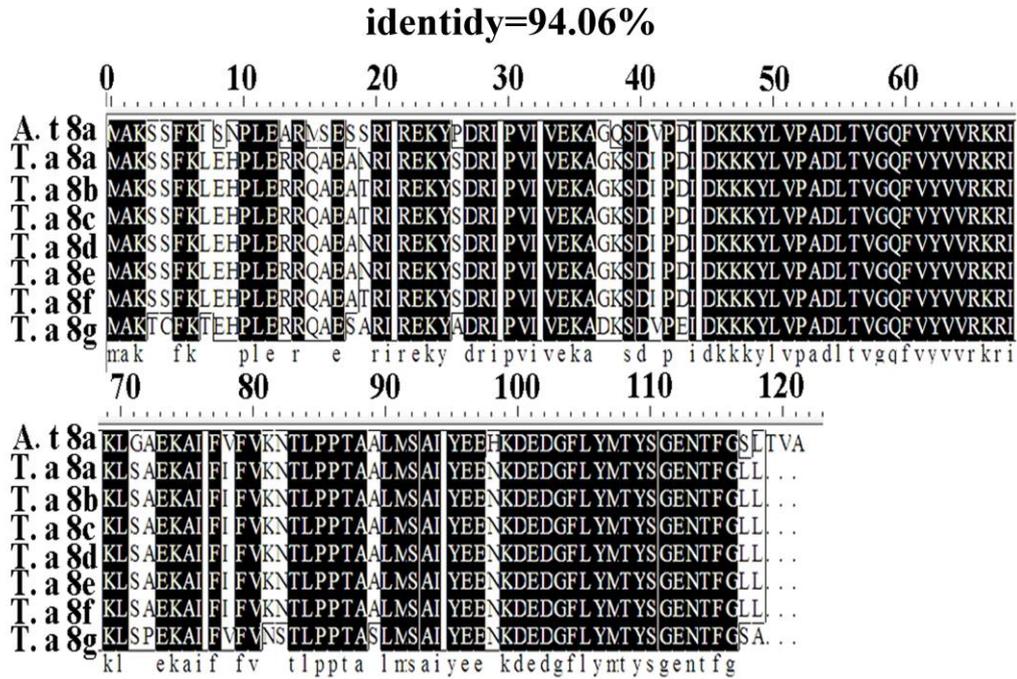


Figure S1 the protein sequence of *A. thaliana* APG8A was alignment with those of wheat ATG8 (ATG8a, 8b, 8c, 8d, 8e, 8f and 8g) by DNAMAN6.0 software.

Table S1 Primers used in the experiments

Primer name	Sequence (5'-3')
ATG3QRTf	CCCTCCGATAAGCAGTTC
ATG3QRTTr	TTTCACCAGCACCAAAGTA
ATG4QRTf	GAAAGCCCCGCACAGAGTC
ATG4QRTTr	ACCCGAGACCACATAGAGC
ATG5QRTf	GCTGCCTTCATCATAACTGG
ATG5QRTTr	ATCGCATCTTCTAAATACTCG
ATG6QRTf	TTCCGTCTCGGTCGTCT
ATG6QRTTr	CAAACCTTATGGCAAACCTCG
ATG7QRTf	TGCCTCACTGGTGCTTAG
ATG7QRTTr	CAATCCTTGAGTTGCCTTA
ATG8QRTf	AGGCTGATAAGTCTGATGTCC
ATG8QRTTr	CGTCCTCGTCCTTGTTTT

ATG9QRTf	ACGGCAAACAGTTCTTAC
ATG9QRTr	TCTGCATGGTTACGGATA
ATG10QRTf	GACCCTGTCCCTGATGAT
ATG10QRTr	GAAGTGAGTGAGGAGGAAGAT
ATG12QRTf	ACAAGTTCAGGATTCAGGACGAG
ATG12QRTr	TGCCGACAAAGCATAGTTTACCAC
ATG13QRTf	TGCTCCTGTGGTCATTC
ATG13QRTr	CCCGCTCATCCAGTTCAT
ATG16QRTf	CCAATGCGATGTATGAGGA
ATG16QRTr	GTAGATGGCACTGGTGTTTC
Atg6RNAiF	TCCATATACAAGACATCTAC
Atg6RNAiR	TTCGCTAAGGATGTTGTAGG
DsGFPF	ATGGTGAGCAAGGGCGAGG
DsGFPR	AGAAGATGGTGCGCTCCTG
α -TubulinF	AACTTCGCCCCGTGGTCAT
α -TubulinR	CAGCGTTGAATACAAGGAATC

ATG(3,4,...)QRT primers are used for Quantitative real-time reverse transcription-PCR (qRT-PCR) of *autophagy-related genes (ATGs)*. ATG6RNAi primers are used for amplifying the interference sequence of autophagy-related 6 (*ATG6*).