

Supplemental Table S1. The list of primers used in this study

Name	Sequence	Purpose
Hygro-F	CCGGGATCCTCTAGAGTCG	Amplify hygromycin resistance gene HYG
Hygro-R	GAGCTGACATCGACACCAAC	
H855-F	GTCGATGCGACGCAATCGT	Check the insertion of hygromycin resistance gene HYG
H855-R	GAACCATCTTGTCAAACGAC	
ATG4-1F	TGAAGTGTGAAGCCTGCGAT	Knock out <i>SsATG4</i> gene
ATG4-2R	cgactctagaggatcccggGAGAGGGCTTTCG GGTCTTG	
ATG4-3F	gttggtgtcgatgtcagctcGGTTAAGGCACCG AGGAACA	
ATG4-4R	GAACCAGTTCGAGGCGCATA	
ATG4-5F	ATGATAAGGTCCGGGCAGAG	
ATG4-6R	TAAAGAAGGCGGCTTACCCA	
ATG4-7F	TGGTTCTGCAGACTCCAAGG	
ATG4-8R	GAACCAGTTCGAGGCGCATA	
ATG9-1F	AACGGTGGTCCCAGTCAATG	Knock out <i>SsATG9</i> gene
ATG9-2R	cgactctagaggatcccggATTGCCGCTCGTT CCTCTAC	
ATG9-3F	gttggtgtcgatgtcagctcCCGATGGAGGACG AGAATGG	
ATG9-4R	CGGAAAGAGAAATGTCCTGCC	
ATG9-5F	AAAAGATCTACCGCGGCGAT	

ATG9-6R	GACAATGACCGGAGCACAGA	
ATG9-7F	GAGTCCAGGCCAGCATGTC	
ATG9-8R	TCCTAGTCCGGGAAAGTGAAT	
ATG2-1F	ATTCAACACGGCGATTTAGG	Knock out SsATG2 gene
ATG2-2R	cgactctagaggatcccggATGCGATCGTAGA TGGGAGT	
ATG2-3F	gttggtgtcgatgtcagctcTTGCGCAGTCTCAG TTGTTT	
ATG2-4R	CGCTACTCAATCCTCCGAAC	
ATG2-5F	GTACGGGTGCATGGGATTAC	
ATG2-6R	GTCCACCATCACTAGCAGCA	
ATG2-7F	TGGGGATGATGAGGATAGTG	
ATG2-8R	CTGTCTTGTATCGGGTCCT	
ATG5-1F	GTCAGGCGGAATGTAAGCAT	Knock out SsATG5 gene
ATG5-2R	cgactctagaggatcccggAGCGCCAAGTAAG AGACTCG	
ATG5-3F	gttggtgtcgatgtcagctcAGGGTGACCGAGT TTAGCAA	
ATG5-4R	TCTCATGCCCTCCTCATCTC	
ATG5-5F	CTCTTAGGCCGATTTCATGC	
ATG5-6R	CCAATACCGCTTTGAAAGGA	
ATG5-7F	GTCCCCTCTTGTCTCGTTTG	

ATG5-8R	CACCGGTGTGGAACGTATTG	
ATG1-1F	CCCAGTGAGTGACATCAACCT	Knock out SsATG1 gene
ATG1-2R	cgactctagaggatcccggCGTCGACTGGCAT AGGGTAT	
ATG1-3F	gttggtgtcgatgtcagctcTCCAGGGCATCCAA GTAATC	
ATG1-4R	CAATACTAAGCCCCGAACCA	
ATG1-5F	ACGAGCCGATCTCTGGTCTA	
ATG1-6R	CGGTCCCTTTGTCTTGGTAA	
ATG1-7F	CCCCTTTTGCCTCTTCACTT	
ATG1-8R	ACCCCCTAAACCAACCAATC	
ATG26-1F	GAGGCCAATAGGAGATCACG	Knock out SsATG26 gene
ATG26-2R	cgactctagaggatcccggCCTAGAACTGAAC CGCGAAA	
ATG26-3F	gttggtgtcgatgtcagctcGCGTGCAACAGAAA CAAAGA	
ATG26-4R	GCCATGATGAACTGAGCAGA	
ATG26-5F	GTACGGGATTTTCGGCAAGTA	
ATG26-6R	TGGGGACAAAAGTTCCTCTG	
ATG26-7F	GGATGTCACGAACCACGTCT	
ATG26-8R	CATGGTGAAAGCTCGGAAAT	