

**Table S1** Primers used in this study

Use	Primer #	Name	Primer Sequence
Amplification of TgAtg8 from cDNA	1	Atg8 CDS Fw	CCATCGATTGCGACGAAGTG
	2	Atg8 CDS Rev	TTACCCAGAGTGTCTCTGAAGAGTATTCC
Adding cMyc N-terminal Tag	3	Atg8 CDS Add cMyc Fw	AAAATGGAGCAGAAGCTCATCTCCGAGGAGGACCTGCCATCGATTGCGACGAAGT
Adding Infusion Cloning overhangs	4	Atg8 cMyc Infusion Fw	GAAAAACAAAATGGAGCAGAAGCTCATCTCC
	5	Atg8 cMyc Infusion Rev	GCAGCTCGAGTCTAGATTACCCAGAGTGTCTCTGAAGAGT
Amplification of Homology Sequences for Infusion Cloning	6	Atg8 5' 1.5 kb Fw	GCGAATTGGGTACCGGGCCCGTAGGGGACCACCGAACAGC
	7	Atg8 5' 1.5 kb Rev	TCCATTTTGTTCCTCAAGACGGCGAATATCTGGT
	8	Atg8 3' 1.3 kb Fw	CGCGCCGGCGCCGATATCGGGAGTGTGCGGCC
	9	Atg8 3' 1.3 kb Rev	GAGCTCCCCGGGGATATCGCATACCACACTGGGACGC
Amplification of SAG1 3'UTR for Infusion Cloning	10	SAG1 3' UTR Fw	GTAATCTAGACTCGAGATCACCGTTGTGCTCACTTCTCA
	11	SAG1 3' UTR Rev	ATTGCATATGGCTAGCCAAGAATTGTGTTAACCGGTTGACTAAAAC
Screening of TgAtg8 locus for recombination	12	Atg8 500 bp US Fw	TGCATCCAATCTCGGAATTAAGTTTCG
	13	Atg8 150 bp DS Rev	TGCGAATGGCTAATGGGACATTATTCCG
	14	Atg8 Intron 2 Rev	TCCCAGGGCACCTATGGAAGA