

Table S2. Primers used to produce new *tiar-1* alleles with CRISPR-Cas9 genome editing.

Name	Sequence	Use in genome editing ^a
001 Nest upstream fow	ggacgcttttggctactg	
002 Nest upstream rev	accgttccgagatgaaatc	<i>tiar-1</i> template
003 Nest orf+UTR fow	tccgcactgtttttattgg	from genomic
004 Nest orf+UTR rev	aacctcaacccccagaaatg	DNA
005 Nest downstream fow	tttgcaatggcacgtattc	
007 Del BlueS rev	ATCGATACCGTCGACCTC	
008 Del <i>tiar</i> upstATG fow	ggtcgacggtatcgatTTAAGAAGACCAGCAGCG	
009 Del <i>tiar</i> upstATG rev	acgaagttatGGCTTAAATGATAGATCCCTG	
010 Del unc-119 fow	atthaagccataacttcgatatagcatacattatacgaagttatCTAGA ATCCTATGCTTGAC	<i>tiar-1</i> deletion: Gibson
011 Del unc-119 rev	acgaagttatTTATGCATCATATGAGTAGTCG	assembly
012 Del <i>tiar-1</i> downs fow	gatgcataaataacttcgtataatgtatgctatacgaagttatATTGA GTTTCGAAAATGTTTATTTCCATTTTC	
013 Del <i>tiar-1</i> downs rev	ctagaactagtgatccCGCCGGTAGGTTTCTAGC	
014 Del BlueS fow	GGATCCACTAGTTCTAGAGC	
015 Ins BlueS rev	ATCGATACCGTCGACCTC	
016 Ins <i>tiar</i> orf fow	tcgaggtcgacggtatcgatATGTCCTTCTTCAACCCAC	
017 Ins <i>tiar</i> orf rev	tctcctttctTTGATGTCCTCCAGAGTTC	
018 Ins gfp fow	aggacatcaaAGAAAGGAGACAGCTGCAG	<i>tiar-1</i> GFP
019 Ins gfp rev	atactggagtCTATTTGTATAGTTCATCCATGCC	fusion Gibson
020 Ins <i>tiar</i> 3'utr fow	atacaaatagACTCCAGTATTTTTTAAAAACATTTTA TATG	assembly
021 Ins <i>tiar</i> 3'utr rev	tacgaagttatAAGACTTTACCCTCGCATTTATTATTG	
022 Ins unc-119 fow	gtaaagtcttataacttcgatatagcatacattatacgaagttatCTAG	

	AATCCTATGCTTGCAC	
023 Ins unc-119 rev	tacgaagttatTTATGCATCATATGAGTAGTCG	
024 Ins tiar downs fow	TGATGCATAAataacttcgtatagcatacattatacgaagtatat tgagtcgaaaatgtttatttc	
025 Ins tiar downs rev	gctctagaactagtgatccCGCCGGTAGGTTTCTAGC	
026 Ins BlueS fow	GGATCCACTAGTTCTAGAGC	
048 sgRNA 2 tiar-1 fow	gccgtactcGTTTTAGAGCTAGAAATAGCAAG	
049 sgRNA 2 tiar-1 rev	tgtgagtttcCAAGACATCTCGCAATAGG	sgRNA <i>tiar-1</i>

^a Details of strain constructions are available upon request.