

Table S1. Primers used in this study.

Primers	Paired sequences (5'–3')*	Purpose
P1	<u>CGAGCTGTACAAGTAACCCGGGCCA</u> ACATTCCAT CGTCCTC	Amplifying 5'- fragment of <i>BbATG4</i>
P2	TTGGCTGCAGGTCGACGGATCCCTGCTCGTTGTC TGTAAGTGC	
P3	<u>CGACCCATGGCTCGAGTCTAGAGT</u> GATGATGATA TGGAGGATT	Amplifying 3'- fragment of <i>BbATG4</i>
P4	GGTGGTGGTGGCTAGCGTTAACTGAGTCGGAGGT GGAAAT	
P5	<u>ACAGTACACGAGGACTTCTAGACCA</u> ACATTCCAT CGTCCTC	Amplifying <i>BbATG4</i> for complementation
P6	<u>GCCCTGCCCCTGAGAGGAATTCTG</u> AGTCGGAGGT GGAAAT	
P7	CTCTGGAGCAAACGGGTAA	PCR screening
P8	ACATTTCTGCGGTCTACTCTGC	

*: The underlined sequence is required for recombination in preparing plasmid.