

**S1 Table. List of primers used for amplification of  $\alpha$ -L-fucosidase-encoding genes.** Restriction sites are underlined, start and stop codons are indicated in bold.

Name	Sequence	Restriction site
mfuc1_fw	TAGCGGTCTC <b>ACAT</b> GTTGAAACCCAAACCGACCACC	<i>BsaI</i>
mfuc1_rv	TAGCGGATCCT <b>TTACTT</b> CAAAGTCAACTCAATCACC	<i>BamHI</i>
mfuc2_fw	TAGCGGTCTC <b>ACAT</b> GCAACACCAAGCGGCAG	<i>BsaI</i>
mfuc2_rv	TAGCGGATCCT <b>TTACTT</b> CAGGAACAGCTCGATCACTG	<i>BamHI</i>
mfuc3_fw	TAGCGGTCTC <b>ACAT</b> GGAAACACTTCCCTTTAGACAGGTC	<i>BsaI</i>
mfuc3_rv	TAGCGGATCCT <b>TTATT</b> TCTCTAGCGGCGCCCTG	<i>BamHI</i>
mfuc4_fw	TAGCGGTCTC <b>ACAT</b> GTACACACCCAAACCGACGC	<i>BsaI</i>
mfuc4_rv	TAGCGAATTC <b>CTACT</b> CTTTCAGCTCCAGCTCGATG	<i>EcoRI</i>
mfuc5_fw	TAGCGGTCTC <b>ACAT</b> GAATAACGATCGAATGCAGTGG	<i>BsaI</i>
mfuc5_rv	TAGCGAATTC <b>CTCATT</b> TCAACACCAGCTCCACG	<i>EcoRI</i>
mfuc6_fw	TAGCGGTCTC <b>ACAT</b> GAAAAAAACCAACACCTGGTTCG	<i>BsaI</i>
mfuc6_rv	TAGCGAATTC <b>CTCAAG</b> CCACGTCGATCGC	<i>EcoRI</i>
mfuc7_fw	TAGCGAAGAC <b>ACCAT</b> GACAAGCTATGTGACCCGCAAAAC	<i>BbsI</i>
mfuc7_rv	TAGCGAATTC <b>TTACTT</b> CAGAAAAAGCTCAATGACCG	<i>EcoRI</i>
Thma_fw	ATCGGGTCTC <b>CCAT</b> GATTTCAATGAAACCGCGTTATAAACC	<i>BsaI</i>
Thma_rv	CGGGGTAC <b>CTTATT</b> CCTCGACTGCTTCCAGAACC	<i>KpnI</i>