

Primer sequences used in this study

Primer name	Vector	Primer sequence (5'–3')
Primers for identifying mutants		
<i>xth30-1</i> -LP1		TTTTGTCTGAAGAACCCATGTC
<i>xth30-1</i> -RP1		CATTGCATCGTTTCTGATCAC
<i>xth30-2</i> -LP2		TCTCAATCTCAATCTCAGGCC
<i>xth30-2</i> -RP2		CGATAAGGGGTCAGCTTTTTC
LBb1.3		ATTTTGCCGATTTCCGGAAC
Primers for RT-PCR		
ACTIN 2-F1		TGTCGTACGTTGAACAGAAAGC
ACTIN 2-R1		CAGCACAATACCGGTTGTACG
XTH30-F1		CGATCGCTATAACCGGTTCTGG
XTH30-R1		TCTGCTCCCATTCATCGTT
Primers for qPCR		
ACTIN 2-qRT-F		ACAACCGGTATTGTGCTGGA
ACTIN 2-qRT-R		CAAGACGGAGGATGGCATGA
XTH30-qRT-F		CGATCGCTATAACCGGTTCTGG
XTH30-qRT-R		CGGCAGTATAATCAGCGGGA
CesA1-qRT-F		CCCATGGCCATACGGTTTCT
CesA1-qRT-R		ACAGGTTGCCGTGGATCAAT
CesA3-qRT-F		TACTCGTGGGAAGGGAGAGG
CesA3-qRT-R		CAGAGAGGCGTTCAGGTGAG
CesA6-qRT-F		TTCACTTGGTGGTCATGGCA
CesA6-qRT-R		ACCATAGGCCTTGATGTGC
Primers used in transgenic construction and subcellular localization		
XTH30-Full length-F	pEarley Gate 101	ACAAGTTTGTACAAAAAAGCAGGCTTCACCATGGCTT TGTCCTTATCTTTCTAGC
XTH30-Full length-R	pEarley Gate 101	ACCACTTTGTACAAGAAAGCTGGGTACATTCTGGTGT TTGGGTATGGT
Primers for GUS		
XTH30- Promoter-F	pGWB3	ACAAGTTTGTACAAAAAAGCAGGCTTCACCAAGAGTT GGTAAATACAGAAGGGT
XTH30- Promoter-R	pGWB3	ACCACTTTGTACAAGAAAGCTGGGTCTTTCTCGGA AGAAGAAAAAGA