

Supplementary Materials:

Table S1. Oligonucleotides used for PCR amplification and cloning. Included are primers for full length constructs (full); partial cDNAs for qPCR (qPCR); for heterologous expression of mature proteins for *P. pastoris* overexpression (pPICZ) and *E.coli* overexpression (pETG); for Gateway 2-step PCR (For pETG vector *E.coli* expression).

cDNA	Comment	Primer name	Primer sequence (5'-3')
Zm-6&1-FEH1	Full gateway +/-Stop codon	FEH1GW-F	GGGGACAAGTTTGTACAAAAAAGCAGGCTCCA TGAGGGCGCTTGAACGGTT
		FEH1GW-R+	GGGGACCACTTTGTACAAGAAAGCTGGGTCTC AAGCGCCGTTTCATGAGTGG
		FEH1GW-R-	GGGGACCACTTTGTACAAGAAAGCTGGGTCTCAG CGCCGTTTCATGAGTGG
	qPCR	FEH1qPCR-F	TTGCGTGATATGGAATGGT
		FEH1qPCR-R	CCTAGTGGCATCTGAATC
	pPICZαA	FEH1pPICZ-F	AATCCGGAATTCTCTCATGTCGTCTACGAGAAC GACTAGTCTAGACCAGCGCCGTTTCATGAGTGGC TT
		FEH1pPICZ-R	
Zm-INVINH1	Full gateway +/-Stop codon	Inh1GW-F	GGGGACAAGTTTGTACAAAAAAGCAGGCTCCA TGAAGCTTCTGCAAGCTCTGT
		Inh1GW-R+	GGGGACCACTTTGTACAAGAAAGCTGGGTCTTA CAACGCGGCCGTTACAGACA
		Inh1GW-R-	GGGGACCACTTTGTACAAGAAAGCTGGGTCCA ACGCGGCCGTTACAGACAGC
Zm-ubiquitin	qPCR	UbiquPCR-F	CTCTTTCCCAACCTCGTGTT
		UbiquPCR-R	ACGAGCGGCGTACCTTGA
Zm-actin	qPCR	ActinqPCR-F	CGATTGAGCATGGCATTGTCA
		ActinqPCR-R	CCCCTAGCGTACAACGAA
Zm-β-tubulin	qPCR	TubugPCR-F	CCTATAACGCCACGCTCTCTGT
		TubugPCR-R	CATTGTCCAGCACCATGCA
Gateway 2-step PCR pETG vector E.Coli expression		attB1_TEV_adapt or	GGGGACAAGTTTGTACAAAAAAGCAGGCTCTG AGAATCTTTATTTTCAGGGC
		attB2 adaptor	GGGGACCACTTTGTACAAGAAAGCTGGGT