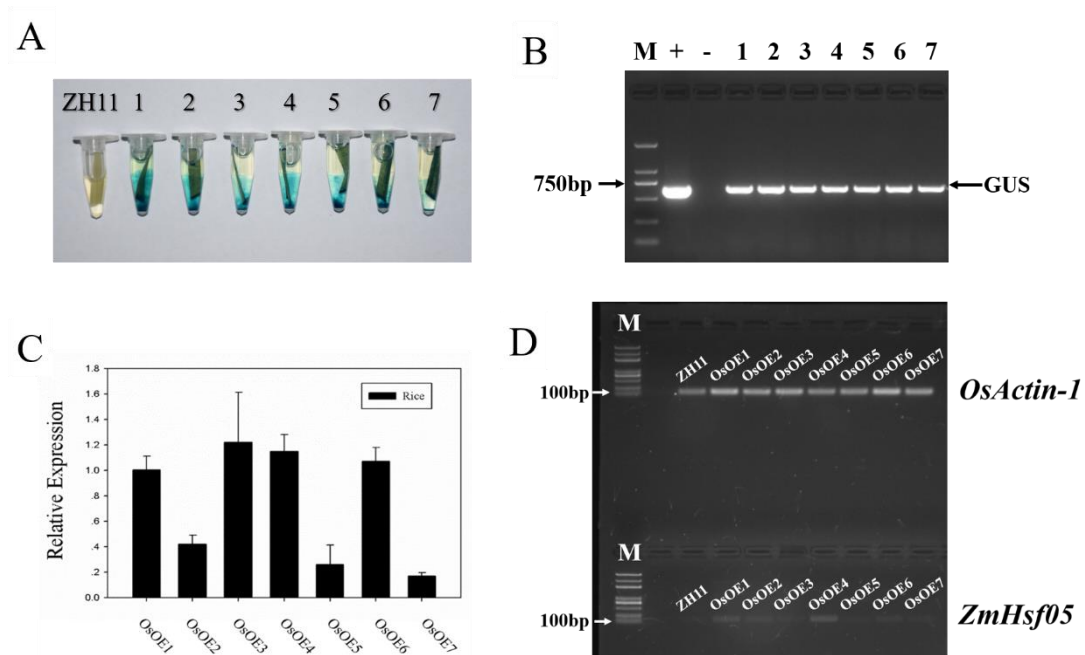


Supplementary material for

Heat Shock Transcription Factor05 of *Zea mays* L., a Key Drought-related Gene Involving Absciscic acid-dependent Pathway

Table S1. The sequence of primers used in this study

Use	Name	Forward Primer (5'-3')	Reverse Primer (5'-3')
1301a	<i>ZmHsf05</i>	GGGGTACCATGAGC CACGGGAACGGGAT	GCTCTAGACTAATGTCT GGGTCCATGTTGTTTC
1305-GFP	<i>ZmHsf05</i>	GCTCTAGAATGAGC CACGGGAACGGGAT	TCCCCCGGGATGTCTG GGTCCATGTTGTTT
RT-qPCR	<i>ZmHsf05</i>	GAGTGCCGCCAACA ATA	CCACCTTTCTGAAGCC ATA
	<i>ZmActin1</i>	GGGATTGCCGATCG TATGAG	GAGCCACCGATCCAGA CACT
pGBKT7	<i>ZmHsf05</i>	ATGGCCATGGAGGC CGAATTCATGAGCC ACGGGAACGGG	CCGCTGCAGGTCGACG GATCCCTAATGTCTGGG TCCATGTTGTTT
Semi-quantitative	<i>ZmHsf05</i>	TCGCCGCCGTTTCCTT ACCAA	CATATCCAAAGTGTCTCT ACC
	<i>OsActin</i>	CTGACGGAGCGTGG TTACTCAT	TGGTCTTGGCAGTCTC CATTTC
ABA-related and stress-related genes	<i>OsLEA3</i>	ATACCAAGGAGGCG ACGAAGG	TCATCCCCAGCGTGCT CATCA
	<i>OsASR5</i>	ACCACCTGTTCCAC CACAAGA	TCTTCTCGTGGTGCTCG TGGA
	<i>OsNCED3</i>	CGCAACAGTAAAAA GAATTAACAGC	TATACACACACGCGGT CGTT
	<i>OsAP3</i>	ACGTCCAGCAACGC ATCCTTAC	TCATACGGTATCCAGC CTCAGC



Supplemental Figure S1. Identification of positive transgenic rice seedlings overexpressing *ZmHsf05* gene. (A) GUS staining of transgenic rice leaves. (B) GUS gene PCR of transgenic rice. (C) Quantitative detection of *ZmHsf05* gene expression in transgenic rice. (D) Semi-quantitative detection of *ZmHsf05* gene expression in transgenic rice. The *OsActin-1* gene was used as the internal control for normalization. M stands for maker. Vertical bars indicate means \pm S.E. ($n \geq 3$).