**Table S1. Plasmids used in this study**

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| --- | --- | --- |
| **Plasmid** | **Plasmid design and markers** | **Reference** |
| pANDA | HmR, KmR, maize *ubiquitin* promoter, *NOS* terminator, Gateway vector | [[1](#_ENREF_1)] |
| pDONRTMP4-P1R | KmR | Invitrogen |
| pDONR-UBQp | KmR, pDONRTMP4-P1R containing maize *ubiquitin* promoter | This study |
| R4pGWB501 | HmR, KmR, SpcR, *NOS* terminator, Gateway vector | [[2](#_ENREF_2)] |
| pENTR-TGA | KmR, pENTR/D-TOPO (Invitrogen) containing *OsTGAP1* ORF | [[3](#_ENREF_3)] |
| R4pGWB-UBQp-TGA | HmR, KmR, SpcR, R4pGWB501 containing maize *ubiquitin* promoterand *OsTGAP1* ORF | This study |
| pGL3 basic | AmpR, firefly luciferase gene | Promega |
| pGL3-DXS3p-2k | AmpR, pGL3 basic containing 2 kbp upstream region of *OsDXS3* | This study |
| pGL3-DXS3p-2k-m1 | AmpR, pGL3 basic containing 2 kbp upstream region of *OsDXS3*, one TGACGT sequence is mutated | This study |
| pGL3-DXS3p-2k-m2 | AmpR, pGL3 basic containing 2 kbp upstream region of *OsDXS3*, one TGACGT sequence is mutated | This study |
| pGL3-DXS3p-2k-m3 | AmpR, pGL3 basic containing 2 kbp upstream region of *OsDXS3*, two TGACGT sequences are mutated | This study |
| pGL3-DXS3p-250 | AmpR, pGL3 basic containing 250 bp upstream region of *OsDXS3* | This study |
| pGL3-DXS3p-250-m1 | AmpR, pGL3 basic containing 250 bp upstream region of *OsDXS3*, one TGACGT sequence is mutated | This study |
| pGL3-DXS3p-250-m2 | AmpR, pGL3 basic containing 250 bp upstream region of *OsDXS3*, one TGACGT sequence is mutated | This study |
| pGL3-DXS3p-250-m3 | AmpR, pGL3 basic containing 250 bp upstream region of *OsDXS3*, two TGACGT sequences are mutated | This study |
| pGL3-DXS3p-240 | AmpR, pGL3 basic containing 240 bp upstream region of *OsDXS3* | This study |
| pGEX-6p2 | AmpR | GE healthcare |
| pDEST15-TGA | AmpR, pDEST15 containing OsTGAP1 ORF | [[3](#_ENREF_3)] |
| pUbi\_RfA\_Tnos | AmpR, maize *ubiquitin* promoter, *NOS* terminator, Gateway vector | [[4](#_ENREF_4)] |
| pUbi\_TGA\_Tnos | AmpR, pUbi\_RfA\_Tnos containing *OsTGAP1* ORF | This study |
| pUbi\_GUS\_Tnos | AmpR, pUbi\_RfA\_Tnos containing *GUS* gene | [[4](#_ENREF_4)] |
| pPTRL | AmpR, CaMV *35S* promoter-Renilla *LUC* | [[5](#_ENREF_5)] |

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