Supplementary file 11: Table S1 List of the primers in this study.

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| **Names** | **Forward sequence (5' - 3')** | **Reverse sequence (5' - 3')** |
| p*OsAAP4-GUS* | TTAAGCTTATGGTGCTATCCCATTTATTTGGAGGA | TTGGATCCGCCGATGCACAAGCCACCCAA |
| *OsAAP4a*-GFP | GAAGATCTATGGACAGGAGAGCAGTAGTG | AAACTAGTGTTGACAGTCTTGAAGGGTGC |
| *OsAAP4b*-GFP | ATAGATCTATGATGATGATGATGATGATGGTGATGATCAG | ATACTAGTCGTAGTAGGTCGCGTTGATGA |
| *OsAAP4-*OEa | ATGGTACCATGGACAGGAGAGCAGTAGTG | ATTCTAGAGTTGACAGTCTTGAAGGGTGC |
| *OsAAP4-*OEb | ATGGTACCATGATGATGATGATGATGATGGTGATGATCAG | ATTCTAGACGTAGTAGGTCGCGTTGATGA |
| *OsAAP4-*RNAi1 | AGGATCCGAGACAAGGGACGGTGTGGA | AAGGTACCACCCACACAACATCACGTTCTTCG |
| *OsAAP4-*RNAi 2 | AGAGCTCGAGACAAGGGACGGTGTGGA | AAACTAGTACCCACACAACATCACGTTCTTCG |
| *OsAAP4*-U6IPST1 | GTGCTTCCACCGGGAAGGGTAGTTTTAGAGCTAGAAATAGCAAGTTA | TACCCTTCCCGGTGGAAGCACAACCTGAGCCTCAGCGCAGC |
| *OsAAP4*-U3IPST2 | ATGCTTCCACCGGGAAGGGTAGTTTTAGAGCTAGAAATAGCAAGTTA | TACCCTTCCCGGTGGAAGCATGCCACGGATCATCTGCACAACTC |
| q*OsActin* | CGGTGTCATGGTCGGAAT | GCTCGTTGTAGAAGGTGT |
| q*OsAAP4* | GACATCGTCCACAACCTCAAGGCT | GCCACAGCTCTAGCTAGGCAGC |
| q*OsAAP4a* | TGGCACTCACCCTTGCACAC | CCGTCCACACCGTCCCTTGT |
| q*OsAAP4b* | ACTTGAGCTCTCTGCATTGGGT | AGCGGTAGCAATTGGCGAGGA |