Supplementary table S2 The general information of *ScMTP*, *ScMT2-1-3*, *ScMPP* and *ScHMA1* for quantitative real time PCR.

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| --- | --- | --- | --- | --- | --- | --- |
| Name | annotation | QPCR primer pairs | Amplicon length (nt) | PCR efficiencies(E %) | RegressionCoefficient (R2) | Reference |
| *ScMTP* | sugarcane metal tolerance protein | GGTTCTACTGCCGAACGTCT/TATCACCAAGGACAGCAGCA | 110 | 1.05  | 0.999 | - |
| *ScMT2-1-3* | sugarcane metallothionein type2-1-3  | ACCACCCAGGCTCTCATC/CACTTGCACCCGTCGTTCT | 97 | 1.03  | 0.999 | Guo *et al.*, 2013 |
| *ScMPP* | sugarcane metallophosphoesterase | GGCCTACAAGGTCAAGTACCC/CCAGAGCTTTACACTGAATCTGC | 124 | 0.99  | 0.999 | - |
| *ScHMA1*  | sugarcane heavy metal transporting ATPase1 | TCCATGGACATTTGGGTGTGA/TCCGATAGGATGGGTTGTTCC | 122 | 1.00  | 0.999 | - |