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 %) | Regression Coefficient (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 | - |