Supplementary Table S1. The information of sugarcane peroxisome genes which indentified with RT-qPCR

ID	Functional annotation	Primer sequence (5', 3')
Unigene0063263	peroxisome biogenesis protein 5-like isoform X1	CTCGCCCATGACAACTCTACA, CGAGTGTCCTTGAGGTGATTAT
Unigene0051250	Loc 100283640 isoform X11	ATGCATTTACCAAAGGCAGTTC, TAACTTGGTGCGAAAGCATATT
Unigene0007964	peroxisomal membrane protein 13 isoform X2	CATCGCTCTATCTGGCTTTA, GTTGTAGTTGGGTCGTACTT
Unigene0004130	lysine and histidine specific transporter	CTGGGTGTGTTAGTGTTGTT, GACAATGATGCTGTCCAAAG
Unigene0062306	peroxisome biogenesis protein 16 isoform X1	CCTTCGCTGGTATGCACAAGC, CTAGACCTGCATCCATAGA
Unigene0064371	aspartic-type endopeptidase/ pepsin A	TGCTCCGATTGTCTGTCTTTC, GGTGTTGATGTGGGTGTATTA
Unigene0074780	peroxisomal adenine nucleotide carrier 1	CGACCGACAATATCATAGACAG, GCTGAGTGTCTCGTGATGATAG
Unigene0075468	____	TACCACGTTGTCATCATGATC, TAGCCTATGCTCCTGTTTGTA
Unigene0039369	catalase-1	GATGAAGCCTGGTAGCATAGT, CGGATCATCAAGGCGTCTATT
Unigene0038299	catalase	CACATGGACAGCCTCTTGAA, CTGAGTTTGTTCTAGTGTAGGA
Unigene0073932	superoxide dismutase [Cu-Zn]	GCGCCTATTCGAGGTGTTATC, GAGTCCTGCATGGTGTTAGTAG
Unigene0076134	manganese superoxide dismutase	AGAAGAGCTGCTCGGTTAGTTTG, ACCCCTCATCAGTCCTCATCTT
Unigene0059824	superoxide dismutase precursor	GCTGCCTCTTATAGGCATGTATC, GATTGCCAACCTGGACAAGC
Unigene0074176	redoxin domain protein	CGATCGCAACAGAGGTGTTATG, TTGCGCAGGAATGACGATAC
Unigene0059982	acyl-coenzyme A oxidase	CAGTCATTGCGGACATCATCTA, TGTCCGATGACAATGAGGAGAG
Unigene0073157	3-ketoacyl-CoA thiolase 2, peroxisomal-like	GATGCGATGCTCACTFTAAGTA, GTTGTGGTGGTTGTAGTAGAT
Rferencre gene	Rlated actin gene	GAGAACGAGCGTGTCTTGATTGAGCC, TTTCCTCCGCAGAATGAAGAAGGACTC