

**Supplementary Table S1**

Primer name	Sequence (5'-3')
OsUBQ5-F	TGAAGACCCTGACTGGGAAG
OsUBQ5-R	CACGGTTCAACAACATCCAG
F1	GTCGTCGTCTTCCTCGTCATC
F2	AAGACGACGACTTTCACAAC
R1	CATGGGAGGTTGAGGAACAC
T-DNA	CTAGAGTCGAGAATTCAGTACA
Ds-1	ACGGTAGAGGTATTTTACCGA
OsAMT1;1-F	ACCAATCCAGAACGAACGAC
OsAMT1;1-R	AGCCCAGCAAAAGTGAAAGA
OsAMT1;2-F	CTTCATCGGGAAGCAGTTCT
OsAMT1;2-R	TGAGGAAGGCGGAGTAGATG
OsAMT1;3-F	GAGATGGGAGGCCATGTCTA
OsAMT1;3-R	GTCAAATCCCCTGTTCCAAA
OsAMT2;1-F	GCGTTCGTGATCGCGTGGA
OsAMT2;1-R	TAGAGCTGGATGGTGACGC
OsAMT2;2-F	GCTCTTCGTGTCGTGTGGA
OsAMT2;2-R	TACAGCTGAATCGTGCTCCTC
OsAMT2;3-F	TCACCATTCAGTTGTAGAAGACGG
OsAMT2;3-R	CTACACCAGCATTACATCACCGAA
OsAMT3;1-F	GTCACGCAGAACGTCTGATGA
OsAMT3;1-R	GTATACAACCCCAAAAAGGAAAGG
OsAMT3;2-F	CTCACCTTCTCCTACACCGTC
OsAMT3;2-R	ACCCCATCCATAGTAACCCTG

OsAMT3;3-F	CGAGCATCACCATCATCATC
OsAMT3;3-R	ATGACACCCCACTGGAAGAG
OsAMT3;1-R	CTGGCCTCAAGAAGATGGACA
OsAMT3;2-F	AGCTGCTTACGTACTIONGATCG
OsGOGAT1-F	GAAACAGGCAAACCTTTTCAAGAC
OsGOGAT1-R	GCATTTACCATGCAAATCA
OsGOGAT2-F	GAAGGATGATGAAGGTGAAACC
OsGOGAT2-R	ATGGCCCTACTATCTTCGCAT
OsPEPC4-F	CCAACACTACGTCGAGACACAG
OsPEPC4-R	CTCAATCCACTCCCACCAAT
OsDOF18-RT-F	GTCGTCGTCTTCCTCGTCATC
OsDOF18-RT-R	CAGACTCTTGGTTATGGACG
OsNADP-MDH-F	CGGAGTCGTCGTCTCATTG
OsNADP-MDH-R	TCTCAATGGCGGACTTGATG
OsNRT2;1-F	CTTGTTGCAAACGGTGATGA
OsNRT2;1-R	GCCTCTCCCTTATTATACCTCCG