

**Table S3.** Primer sequences used for heterologous expression of GjUGT1~13.

Primer name	Sequence (5' to 3')
GjUGT1	SphI-3-6Fw <u>GGGCATGC</u> ATGGTGCAACAAAGACATGTTCTCCTCA
	HindIII-3-6Rv CCA <u>AAGCTT</u> CTAGTTTGACTCAGCTTGATAACCTTTTCC
GjUGT2	SphI-16'-3Fw <u>CCGCATGC</u> ATGGGTTCCATTTCTCTGCCAGAAAAGC
	HindIII-16'-3Rv CCA <u>AAGCTT</u> TTACTTGGAGAGAAGCACTTGGACAACCT
GjUGT3	SphI-5-4Fw <u>GGGCATGC</u> ATGCTTCCCAAAGTACACATGGCCG
	PstI-5-4Rv <u>GGCTGCAG</u> CTAATGACTGCTCATACCAAAGGCACGTAG
GjUGT4	SphI-5-1Fw <u>CGGCATGC</u> ATGGAATTGGTGGAAAATGCTAACCTTC
	PstI-5-4Rv <u>GGCTGCAG</u> CTAATGACTGCTCATACCAAAGGCACGTAG
GjUGT5	BamHI-8-2Fw <u>CGGGATCC</u> ATGGATAACCATCAAAGCCGTCAAGCAC
	SacI-8-2Rv <u>CGGAGCTC</u> TCACCAAAGTGGCTTTTTTCAGGCTCATC
GjUGT6	BamHI-8-2Fw <u>CGGGATCC</u> ATGGATAACCATCAAAGCCGTCAAGCAC
	SacI-8-2Rv <u>CGGAGCTC</u> TCACCAAAGTGGCTTTTTTCAGGCTCATC
GjUGT7	SphI-23-6Fw <u>CCGCATGC</u> ATGGCCAAAGACGATCATTCCACAG
	HindIII-23-6Rv CCA <u>AAGCTT</u> ATCTAGCGACGAATATGAGCAATGAAAGAA
GjUGT8	SphI-2-12Fw <u>CCGCATGC</u> ATGAAGAAGCCTCAACACTTTCTCATAAC
	HindIII-2-12Rv <u>GGAAGCTT</u> CTATCCCAGACTCTCTAAGAAAAGTTTGAG
GjUGT9	SphI-4-1Fw <u>CCGCATGC</u> ATGTTTCCATGGCTGGCTTATGGC
	HindIII-4-1Rv CCA <u>AAGCTT</u> TTAATTCGAAGACTGAGTAGTTTCCGTCAC
GjUGT10	SphI-7-5Fw <u>CCGCATGC</u> ATGGGCCATTTGGCTCAGCTGGT
	HindIII-7-5Rv <u>GGAAGCTT</u> TCAACTACCATGCAACATTTTACCAATCAG
GjUGT11	SphI-8'-1Fw <u>CCGCATGC</u> ATGAAGAACCAAGAGCTGGTTTTTCATTCC
	SalI-8'-1Rv <u>GCGTCGAC</u> TCATGGAATATTATCTATCAACGCATCTAG
GjUGT12	BamHI-1-3Fw <u>CCGGATCC</u> ATGGAGAATACCCTTGTCCTGTATCC
	SacI-1-3Rv <u>CGGAGCTC</u> TTAGTTTCCAAACACAACGTGAATCAAGC
GjUGT13	BamHI-46-5Fw <u>GCGGATCC</u> ATGGAGAAATTTAAGCTCATGATGATGGT
	SacI-46-5Rv <u>GCGAGCTC</u> TCAAGACCTTGAACAAATATCTTGAATAAT

Sequences shown in underline correspond to restriction enzyme sites that facilitated cloning.