

Table S4. Accession numbers of PSPGs used for constructing the phylogenetic tree shown in Figure 4.

Name	Species	Function	Accession No.
GjUGT1	<i>Gardenia jasminoides</i>	Crocin glucosyltransferase	AB555731
GjUGT2 (UGT85A24)		Iridoid 1- <i>O</i> -glucosyltransferase	AB555732
GjUGT3			AB555733
GjUGT4			AB555734
GjUGT5			AB555735
GjUGT6			AB555736
GjUGT7			AB555737
GjUGT8			AB555738
GjUGT9			AB555739
GjUGT10			AB555740
GjUGT11			AB555741
GjUGT12			AB555742
GjUGT13			AB555743
CrUGT6 (UGT85A23)	<i>Catharanthus roseus</i>	Iridoid 1- <i>O</i> -glucosyltransferase	AB591741
ABA-GT	<i>Vigna angularis</i>	Abscisic acid glucosyltransferase	BAB83692
B5GT (UGT73A5)	<i>Dorotheanthus bellidiformis</i>	Betanidin 5- <i>O</i> -glucosyltransferase	Y18871
BpUGAT	<i>Bellis perennis</i>	Anthocyanidin 3- <i>O</i> -glucoside 1,2- <i>O</i> -glucuronosyltransferase	BAD77944
Cm1,2RhaT	<i>Citrus maxima</i>	Flavanone 7- <i>O</i> -glucoside 1,2- <i>O</i> -rhamnosyltransferase	AAL06646
CrYmb4	<i>Catharanthus roseus</i>	Tetrahydrochalcone 2'- <i>O</i> -glucosyltransferase	AB294401
EpGT2	<i>Eucalyptus perriniana</i>	Monoterpene glucosyltransferase	AB166766
FaGT6	<i>Fragaria</i> × <i>ananassa</i>	Flavonoid 3- <i>O</i> -glucosyltransferase	DQ289587
F7GT	<i>Scutellaria baicalensis</i>	Flavonoid 7- <i>O</i> -glucosyltransferase	BAA83484
Gentiana 3'GT	<i>Gentiana triflora</i>	Flavonoid 3'- <i>O</i> -glucosyltransferase	AB076697
In3GGT	<i>Ipomoea nil</i>	Anthocyanidin 3- <i>O</i> -glucoside 1,2- <i>O</i> -glucosyltransferase	AB192314
MdPGT1	<i>Malus pumila</i>	Phloretin 2'- <i>O</i> -glucosyltransferase	EU246349
Medicago UGT71G1	<i>Medicago truncatula</i>	Flavonoid 3'- <i>O</i> -glucosyltransferase	AAW56092
Medicago UGT85H2		(Iso)flavonoid glucosyltransferase	DQ875463
NtGT1a	<i>Nicotiana tabacum</i>	Glucosyltransferase with broad substrate specificity	AB052558
NtGT2		Flavonol 7- <i>O</i> -, coumarin 3- <i>O</i> - glucosyltransferase	AB072919
NtGT3		Glucosyltransferase with broad substrate specificity	AB072918
NtSAGT		Salicylic acid glucosyltransferase	AAF61647
Petunia UGT79A1		Anthocyanidin 3- <i>O</i> -glucoside 1,6- <i>O</i> -rhamnosyltransferase	CAA50376
Prunus UGT85A19	<i>Prunus dulcis</i>	Mandelonitrile glucosyltransferase	EU015987
SaGT4A	<i>Solanum aculeatissimum</i>	Steroidal sapogenin 3- <i>O</i> - glucosyltransferase	BAD89042
Sesamum UGT94D1	<i>Sesamum indicum</i>	Sesaminol 2- <i>O</i> -glucoside 1,6- <i>O</i> -glucosyltransferase	BAF99027
Sorghum UGT85B1	<i>Sorghum bicolor</i>	Cyanohydrin <i>O</i> -glucosyltransferase	AAF17077
Stevia UGT76G1	<i>Stevia rebaudiana</i>	Stevioside glucosyltransferase	AAR06912
Stevia UGT85C2		Steviol 13- <i>O</i> -glucosyltransferase	AAR06920
UGTCs2	<i>Crocus sativus</i>	Crocin glucosyltransferase	AAP94878
UGT71C1 (At2g29750)	<i>Arabidopsis thaliana</i>	Phenylpropanoid <i>O</i> -glucosyl transferase	AAC35226
UGT72E2 (At5g66690)		Coniferyl alcohol glucosyltransferase	BAA97275
UGT74B1 (At1g24100)		Thiohydroximate 5- <i>O</i> -glucosyl transferase	AAC00570

UGT75B1 (At1g05560)		Indole-3-acetate glucosyltransferase	AF196777
UGT76C1 (At5g05870)		Cytokinin <i>N</i> -glucosyltransferase	BAB10792
UGT78D1 (At1g30530)		Flavonol 3- <i>O</i> -rhamnosyltransferase	AAF19756
UGT85A1 (At1g22400)		<i>trans</i> -Zeatin glucosyltransferase	AAF18537
VvGT1	<i>Vitis vinifera</i>	flavonoid 3- <i>O</i> -glucosyltransferase	AAB81682
ZOG1	<i>Phaseolus lunatus</i>	<i>cis</i> -Zeatin glucosyltransferase	AAD04166
ZOX1	<i>Phaseolus vulgaris</i>	<i>cis</i> -Zeatin xylosyltransferase	AAD51778
