

Table S1. The numbers of total UGTs found in different plants species that have been published in public databases.

Number of UGTs	Species	Phylogenetic group(s)																References		
		A	B	C	D	F	E	G	H	I	G	K	L	M	N	O	P		Q	O
1	<i>Chlamydomonas reinhaedtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	[97]
2	<i>Chara braunii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	[88]
15	<i>Physcomitrella patens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	[91]
41	<i>Marchantia polymorpha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	[101]
56	<i>Carica papaya</i>	5	3	0	10	12	1	6	8	1	2	2	7	2	1	1	1	0	0	[96]
85	<i>Cucumis sativus</i>	13	1	2	12	12	2	11	5	0	2	1	16	2	1	3	5	0	0	[86]
100	<i>Dioscorea rotundata</i>	6	3	3	9	15	1	6	0	3	4	1	10	0	1	8	4	2	2	[87]
102	<i>Vitis vinifera</i>	23	1	0	3	14	6	5	2	6	4	2	9	1	1	0	3	3	0	[105]
117	<i>Ricinus communis</i>	11	4	2	17	8	3	15	4	8	2	1	17	3	1	2	1	2	12	[97]
123	<i>Arabidopsis thaliana</i>	14	4	4	13	25	4	7	9	1	2	2	18	1	1	0	0	0	6	[111]
129	<i>Ginkgo biloba</i>	17	3	0	0	9	1	4	0	0	2	14	12	9	0	6	0	1	7	[108]
137	<i>Vaccinium corymbosum</i>	20	1	3	10	16	3	24	1	1	3	1	19	3	0	8	11	2	9	[94]
155	<i>Mimulus guttatus</i>	24	2	3	11	19	2	12	1	4	2	15	18	1	1	10	3	1	2	[1]
149	<i>Morus notabilis</i>	17	4	2	14	30	3	8	5	2	3	7	16	5	1	7	3	1	17	[24]
162	<i>Solanum lycopersicum</i>	24	2	2	17	16	2	13	6	2	1	5	20	3	1	25	6	1	15	[93]
181	<i>Theobroma cacao</i>	17	5	1	21	22	5	9	9	8	6	2	24	6	1	2	11	2	20	[112]
182	<i>Linum usitatissimum</i>	16	5	6	25	24	1	21	8	9	4	5	24	3	1	0	4	2	19	[102]
184	<i>Oryza sativa</i>	15	4	7	20	36	2	19	7	6	3	1	21	8	2	6	6	0	16	[95]
187	<i>Medicago truncatula</i>	30	4	0	55	58	2	39	4	5	9	0	33	2	1	3	3	1	20	[90]
234	<i>Populus trichocarpa</i>	14	2	6	15	53	8	36	6	5	7	2	23	8	1	3	3	3	0	[110]
294	<i>Ziziphus jujuba</i>	55	9	3	41	31	4	34	6	3	8	7	30	2	1	18	13	4	21	[107]
379	<i>Eucalyptus grandis</i>	30	6	6	35	74	2	44	9	9	20	2	47	6	3	11	4	4	28	[89]