

Table S4. A list of 47 previously reported plant CYP450s involved in steroid biosynthesis.

Name On Tree	Species Name	Accession Number	Function
SICYP90B3	<i>Solanum lycopersicum</i>	NM_001279330.2	Steroid C22 hydroxylation
TfCYP90B51	<i>Trigonella foenum-graecum</i>	MK636706.1	Steroid C22S/ C22R hydroxylation
AtCYP90B1	<i>Arabidopsis thaliana</i>	AF412114	Steroid C22 hydroxylation
OsCYP90B2	<i>Oryza sativa</i>	AB206579.1	Steroid C22 hydroxylation
PpCYP90B52	<i>Paris polyphylla</i>	MK636701.1	Cholesterol C22S hydroxylation
TfCYP90B50	<i>Trigonella foenum-graecum</i>	MK636707.1	Cholesterol C22R, C16 dihydroxylation
VcCYP90B27	<i>Veratrum californicum</i>	KJ869252	Cholesterol C22 hydroxylation
PpCYP90B27	<i>Paris polyphylla</i>	KX904822	Cholesterol C22 hydroxylation
DzCYP90B71	<i>Dioscorea Zingi-berensis</i>	MN829441.1	Cholesterol C22R hydroxylation
PpCYP90G4	<i>Paris polyphylla</i>	MK636702.1	Steroid C16 oxidation
DzCYP90G6	<i>Dioscorea Zingi-berensis</i>	MN829442.1	Steroid C16 oxidation
VcCYP90G1v2	<i>Veratrum californicum</i>	AJT59567.1	Steroid C22 hydroxylation
VcCYP90G1v1	<i>Veratrum californicum</i>	AJT59564.1	Steroid C22 hydroxylation
VcCYP90G1v3	<i>Veratrum californicum</i>	AJT59566.1	Steroid C22 hydroxylation
AtCYP724A1	<i>Arabidopsis thaliana</i>	NM_001343334.1	Brassinosteroids C22 hydroxylation
OsCYP724B1	<i>Oryza sativa</i>	NM_001059582.1	Steroid C22 hydroxylation
SICYP724B2	<i>Solanum lycopersicum</i>	NM_001279143.2	Steroid C22 hydroxylation
OsCYP90A3	<i>Oryza sativa</i>	AB206580	Brassinosteroid C23 hydroxylation
AtCYP90A1	<i>Arabidopsis thaliana</i>	AY087526.1	Brassinosteroid C3 oxidation
SICYP90A5	<i>Solanum lycopersicum</i>	XM_004240898	Steroid C22 hydroxylation
ZeCYP90A11	<i>Zinnia elegans</i>	AB231153	Steroid C23 hydroxylation
AtCYP90C1	<i>Arabidopsis thaliana</i>	NM_119801	Steroid C23 hydroxylation
AtCYP90D1	<i>Arabidopsis thaliana</i>	NM_112223.3	Steroid C23 hydroxylation
OsCYP90D2	<i>Oryza sativa</i>	NM_001048832.1	Steroid C23 hydroxylation
OsCYP90D3	<i>Oryza sativa</i>	AAT44310.1	Steroid C23 hydroxylation
SICYP85A1	<i>Solanum lycopersicum</i>	NM_001247334.2	Steroid C6 oxidation
AtCYP85A2	<i>Arabidopsis thaliana</i>	AB087801.1	Steroid C6 oxidation
AtCYP85A1	<i>Arabidopsis thaliana</i>	Q9FMA5.1	Steroid C6 oxidation
SICYP85A3	<i>Solanum lycopersicum</i>	AB190445.1	Steroid C6 oxidation
SICYP88B1	<i>Solanum lycopersicum</i>	XM_004251512.1	Steroid C26 oxidation
SICYP710A11	<i>Solanum lycopersicum</i>	NM_001247585.2	Steroid C22 desaturation
AtCYP710A1	<i>Arabidopsis thaliana</i>	AB219423.1	Steroid C22 desaturation
AtCYP710A2	<i>Arabidopsis thaliana</i>	AB233425.1	Steroid C22 desaturation
AtCYP710A4	<i>Arabidopsis thaliana</i>	NM_128444.2	Steroid C22 desaturation
AtCYP51G1	<i>Arabidopsis thaliana</i>	NP_172633.1	Obtusifoliol C14 α demethylation

VcCYP94N1v2	<i>Veratrum californicum</i>	AJT59561.1	Steroid C26 hydroxylation
PpCYP94D108	<i>Paris polyphylla</i>	MK636703.1	Steroid C27 hydroxylation
PpCYP94D109	<i>Paris polyphylla</i>	MK636704.1	Steroid C27 hydroxylation
SICYP734A7	<i>Solanum lycopersicum</i>	NM_001247011	Castasterone C26 hydroxylation
AtCYP734A1	<i>Arabidopsis thaliana</i>	NM_128228	Steroid C26 hydroxylation
OsCYP734A2	<i>Oryza sativa</i>	AB488666.1	Brassinosteroids C26 oxidation
AtCYP72C1	<i>Arabidopsis thaliana</i>	NM_101566.2	Brassinosteroid C26 hydroxylation
SICYP72A208	<i>Solanum lycopersicum</i>	NM_001247565.1	Steroid C22,26 hydroxylation
SICYP72A188	<i>Solanum lycopersicum</i>	NM_001365979.1	Steroid C22 oxidation
SICYP72A186	<i>Solanum lycopersicum</i>	NM_001365978.1	Cholesterol C22 hydroxylation
TfCYP72A613	<i>Trigonella foenum-graecum</i>	MK636708.1	Steroid C27 hydroxylation
PpCYP72A616	<i>Paris polyphylla</i>	MK636705.1	Steroid C27 hydroxylation