

Table S2 Information of the YABBY family in the phylogenetic tree

SubClass Name	Species	Gene Name	Gene ID	Protein Length (Amino Acids)
INNER NO OUTER (INO)	<i>Arabidopsis thaliana</i>	<i>AtINO</i>	AF195047	231
	<i>Brassica rapa</i>	<i>Brine</i>	XP_009103178.1	233
	<i>Brassica rapa</i>	<i>BrINOa</i>	XP_009115528.1	235
	<i>Camellia sinensis</i>	<i>CsINO</i>	TEA024628	225
	<i>Vitis vinefera</i>	<i>VvINO</i>	GSVIVT01013778001	176
	<i>Bienertia sinuspersici</i>	<i>BsINO</i>	MK782019	202
	<i>Chenopodium quinoa</i>	<i>CqINOa</i>	XP_021742940.1	195
	<i>Chenopodium quinoa</i>	<i>CqINOb</i>	XP_021727415.1	202
YABBY 5	<i>Arabidopsis thaliana</i>	<i>AtYAB5</i>	AK119091	164
	<i>Brassica rapa</i>	<i>BrYAB5</i>	XP_009133935.1	164
	<i>Camellia sinensis</i>	<i>CsYAB5</i>	TEA004319	228
	<i>Vitis vinefera</i>	<i>VvYAB5</i>	GSVIVT01015567001	185
	<i>Bienertia sinuspersici</i>	<i>BsYAB5</i>	MK782023	184
	<i>Chenopodium quinoa</i>	<i>CqYAB5a</i>	XP_021741749.1	209
	<i>Chenopodium quinoa</i>	<i>CqYAB5b</i>	XP_021760782.1	210
FILAME NTOUS FLOWER (FIL) / (YABBY3)	<i>Brassica rapa</i>	<i>BrFILa</i>	XP_009142321.1	233
	<i>Brassica rapa</i>	<i>BrFILb</i>	XP_009133711.1	225
	<i>Brassica rapa</i>	<i>BrFILc</i>	XP_009104094.1	220
	<i>Arabidopsis thaliana</i>	<i>AtFIL</i>	AF136538	229
	<i>Camellia sinensis</i>	<i>CsFILb</i>	TEA030070	216
	<i>Vitis vinefera</i>	<i>VvFILb</i>	GSVIVT01001269001	211
	<i>Bienertia sinuspersici</i>	<i>BsYAB3</i>	MK782022	234
	<i>Camellia sinensis</i>	<i>CsFILa</i>	TEA026059	215
	<i>Vitis vinefera</i>	<i>VvFILa</i>	GSVIVT01027648001	210
	<i>Arabidopsis thaliana</i>	<i>AtYAB3</i>	AF136540	240
	<i>Brassica rapa</i>	<i>BrYAB3</i>	XP_009111512.1	239
	<i>Bienertia sinuspersici</i>	<i>BsFIL</i>	MK782020	269
	<i>Chenopodium quinoa</i>	<i>CqFILa</i>	XP_021748608.1	269
	<i>Chenopodium quinoa</i>	<i>CqFILb</i>	XP_021756313.1	277
CRABS CLAW (CRC)	<i>Chenopodium quinoa</i>	<i>CqCRCa</i>	XP_021729181.1	185
	<i>Chenopodium quinoa</i>	<i>CqCRCb</i>	XP_021717873.1	186
	<i>Bienertia sinuspersici</i>	<i>BsCRC</i>	MK782018	167
	<i>Camellia sinensis</i>	<i>CsCRC</i>	TEA001859	169
	<i>Vitis vinefera</i>	<i>VvCRC</i>	GSVIVT01012246001	160
	<i>Arabidopsis thaliana</i>	<i>AtCRC</i>	AF132606	181
	<i>Brassica rapa</i>	<i>BrCRC</i>	XP_009105464.1	179
YABBY 2	<i>Camellia sinensis</i>	<i>CsYAB2</i>	TEA005609	161
	<i>Vitis vinefera</i>	<i>VvYAB2a</i>	GSVIVT01037533001	183

<i>Vitis vinefera</i>	<i>VvYAB2b</i>	GSVIVT01022586001	184
<i>Chenopodium quinoa</i>	<i>CqYAB2a</i>	XP_021720585.1	190
<i>Chenopodium quinoa</i>	<i>CqYAB2b</i>	XP_021715646.1	190
<i>Bienertia sinuspersici</i>	<i>BsYAB2</i>	MK782021	187
<i>Arabidopsis thaliana</i>	<i>AtYAB2</i>	AF136539	184
<i>Brassica rapa</i>	<i>BrYAB2a</i>	XP_009148101.1	190
<i>Brassica rapa</i>	<i>BrYAB2b</i>	XP_009110891.1	188
<i>Brassica rapa</i>	<i>BrYAB2c</i>	XP_009118372.1	188