

Supplemental Table S3. Comparison of MAAB and BIO OHIO v2/manual curation classification of *Populus* AGPs, EXTs and PRPs^a

Showalter et al. (2016) (Tables 2, 3 & 4)						Eliminated ^c						MAAB Class or PFAM ID
Locus	Name	Class ^b	Length	Signal peptide (ER)	GPI	1a 95% ID	1b ≥45% bias	1c ≥90 aa	1d ≥10% P	1e PFAM	1f Signal peptide (ER)	
Potri.017G050200	PtAGP1C	Classical AGP	137	Y	Y							1
Potri.017G050300	PtAGP2C	Classical AGP	133	Y	Y							1
Potri.005G161100	PtAGP3C	Classical AGP	161	Y	N							4
Potri.014G135100	PtAGP4C	Classical AGP	140	Y	Y							1
Potri.001G339700	PtAGP5C	Classical AGP	144	Y	Y							1
Potri.001G259700	PtAGP6C	Classical AGP	197	Y	N	Y						97% ID to Potri.001G259500
Potri.001G310300	PtAGP7C	Classical AGP	126	Y	Y							1
Potri.001G367600	PtAGP8C	Classical AGP	265	Y	Y							1
Potri.001G310400	PtAGP9C	Classical AGP	137	Y	Y							1
Potri.017G047500	PtAGP10C	Classical AGP	207	Y	Y ^d							4
Potri.002G207500	PtAGP47C	Classical AGP	141	Y	N							4
Potri.010G031700	PtAGP48C	Classical AGP	169	Y*	N		N				N	-
Potri.008G182400	PtAGP50C	Classical AGP	101	Y	Y				N			-
Potri.015G093700	PtAGP51C	Classical AGP	115	Y	Y				N			-
Potri.012G095900	PtAGP52C	Classical AGP	115	Y	Y				N			-
Potri.005G169000	PtAGP64C	Classical AGP	216	Y	N					Y		LTP_2; PF14368.4
Potri.008G155200	PtAGP65C	Classical AGP	219	Y*	Y					Y	N	LTP_2; PF14368.4
Potri.005G212000	PtAGP66C	Classical AGP	207	Y	Y					Y		LTP_2; PF14368.4
Potri.002G050200	PtAGP67C	Classical AGP	205	Y	N					Y		LTP_2; PF14368.4
Potri.010G085400	PtAGP68C	Classical AGP	170	Y	Y		N			Y		LTP_2; PF14368.4
Potri.008G155100	PtAGP69C	Classical AGP	170	Y	Y		N			Y		LTP_2; PF14368.4
Potri.009G092300	PtAGP11K	Lys-Rich AGP	196	Y	Y ^d							4
Potri.010G132500	PtAGP12K	Lys-Rich AGP	241	Y	N							4
Potri.007G051600	PtAGP13K	Lys-Rich AGP	204	Y	Y							1
Potri.005G144900	PtAGP14K	Lys-Rich AGP	208	Y	Y							1
Potri.008G111000	PtAGP15K	Lys-Rich AGP	276	Y	Y							1
Potri.008G195700	PtAGP49K	Lys-Rich AGP	194	Y	N							4
Potri.018G050100	PtEXT1	Classical	190	Y	N							2
Potri.001G019700	PtEXT2	Classical	213	Y	N							2
Potri.001G122100	PtEXT3	Classical	238	Y	N							21
Potri.001G259600	PtEXT4	Classical	500	Y ^e	N						N	-
Potri.001G020100	PtEXT5	Classical	257	Y	N	Y						95.2% ID to Potri.001G019900
Potri.001G019900	PtEXT6	Classical	259	Y*	N							2
Potri.001G260200	PtEXT7	Classical	222	Y	N							11
Potri.001G020000	PtEXT8	Classical	267	Y*	N	Y						95.4% ID to Potri.001G019900
Potri.010G001200	PtEXT9	Short EXT	174	Y	Y							20
Potri.010G113300	PtEXT10	Short EXT	131	Y	N							4
Potri.T091000	PtEXT11	Short EXT	106	Y	N							20
Potri.013G045700	PtEXT12	Short EXT	111	Y	N							20
Potri.003G064900	PtEXT13	Short EXT	167	Y	N							21
Potri.006G225400	PtEXT14	Short EXT	186	Y	Y		N					-
Potri.002G070100	PtEXT15	Short EXT	102	Y	N		N					-
Potri.019G015900	PtEXT16	Short EXT	108	Y	N		N					-
Potri.019G015800	PtEXT17	Short EXT	107	Y	N		N					-
Potri.019G016000	PtEXT18	Short EXT	116	Y	N		N					-
Potri.019G017300	PtEXT19	Short EXT	110	Y*	N		N					-
Potri.005G190100	PtEXT20	Short EXT	115	Y	N		N					-
Potri.014G124700	PtEXT21	Short EXT	168	Y	N		N					-
Potri.T082000	PtEXT22	Short EXT	177	Y*	N							4
Potri.008G129100	PtEXT23	Short EXT	155	Y	Y		N					-
Potri.008G213600	PtEXT24	Short EXT	172	Y	Y							5
Potri.008G125400	PtEXT25	Short EXT	80	Y*	N			N				-
Potri.001G169200	PtEXT26	Short EXT	147	Y	N							24
Potri.001G042200	PtEXT27	Short EXT	177	Y	N							4
Potri.T179500	PtEXT28	Short EXT	176	Y*	N							4
Potri.T101300	PtEXT29	Short EXT	151	Y*	N							4
Potri.T139000	PtEXT33	Short EXT	107	Y	N		N					-
Potri.004G168600	PtPRP1	PRP	554	Y	N					Y		Ole_e_; PF01190.15
Potri.016G015500	PtPRP2	PRP	449	Y	N					Y		Hydrophob_seed; PF14547.4
Potri.014G126200	PtPRP3	PRP	372	Y	N					Y		Ole_e_; PF01190.15
Potri.014G126500	PtPRP4	PRP	366	Y	N					Y		Ole_e_; PF01190.15
Potri.018G126000	PtPRP5	PRP	310	Y*	N							24
Potri.009G129900	PtPRP6	PRP	283	Y*	N					Y		Ole_e_; PF01190.15
Potri.003G111300	PtPRP7	PRP	234	Y*	N					Y		Hydrophob_seed; PF14547.4
Potri.006G008300	PtPRP8	PRP	234	Y	N							24
Potri.T162800	PtPRP9	PRP	216	Y	N					Y		Hydrophob_seed; PF14547.4
Potri.006G008600	PtPRP10	PRP	214	Y	N					Y		Hydrophob_seed; PF14547.4
Potri.002G201800	PtPRP34	PRP	213	Y	N					Y		Ole_e_; PF01190.15
Potri.017G145800	PtPRP35	PRP	272	Y	N					Y		Ole_e_; PF01190.15
Potri.001G060500	PtPRP38	PRP	332	Y	N					Y		Ole_e_; PF01190.15
Potri.003G167100	PtPRP40	PRP	299	Y	N					Y		Ole_e_; PF01190.15
Potri.007G114400	PtPRP44	PRP	275	Y	N		N					-
Potri.013G111600	PtPRP46	PRP	216	Y	N		N					-

^a BIO OHIO v2/manual curation from Showalter et al. (2016)

^b AG-peptides, chimeric AGPs (FLAs and PAGs) and most chimeric extensins are not included. Y* is from Showalter et al. (2016) and denotes modified sequence or parameters SignalP.

^c Reason for exclusion (-) by MAAB (dark red) additional reason(s) (light red)

^d Re-analysis of Potri.017G047500 and Potri.009G092300 from Phytozome v11 shows not GPI-anchored using same predictor (BIG-PI plant predictor). Downloaded proteins same len;

^e Re-analysis of Potri.001G259600 from Phytozome v11 shows no ER signal using the same predictor (SignalP). Downloaded protein same length.