

Group II a

		*	20	*	40	*	
Cc WRKY16	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	HAPSC	CPVKKKVQSV	VEDQS	SILVATYEGEHNHP	58
Cc WRKY50	DGYQWRKYGQKVTRDNPS	SPRAYYKCS	FAPSC	CHAKKKVQSV	VDDAG	VLVATYEGEHNH	57
Cc WRKY53	DGYQWRKYGQKVTRDNPS	SPRAYYKCS	FAPSC	CPVKKKVQSV	VEDAHLLV	VVYEGEHNHQ	58
Cc WRKY54	DGYQWRKYGQKVTRDNPS	SPRAYYKCS	FAPSC	TVKKKVQKSV	VDDAHLLV	VVYEGVHNHE	58
Cc WRKY55	DGYQWRKYGQKVTRDNPS	SPRAYYKCS	FAPSC	CPVKKKVQSV	VNDHLLV	VVYEGEHNHE	58
Ha WRKY5	DGYQWRKYGQKVTRDNPS	SPRAYYKCS	FAPTC	CPVKKKVQSM	DDNGVVM	VVYEGEHNH	57
Ha WRKY10	DGYHWRKYGQKVTRDNPS	SPRAYYKCS	FAPTC	CPVKKKVQSV	VDDAGLLV	VVYEGEHNH	57
Ha WRKY56	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	HAPTC	CPVKKKVQSV	VEDQS	SILVATYEGEHNHP	58
Ha WRKY99	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	HAPSC	CPVKKKVQSD	VADQS	SILVATYEGEHNHP	58
Ha WRKY108	DGYQWRKYGQKVTRNNPS	SPRAYYKCS	YAPLC	CPVKKKVQSM	DDDGLL	VVATYEGEHNH	57
Ls WRKY11	DGYQWRKYGQKVTRDNPS	SPRAYYKCS	SSPTC	CPVKKKVQSV	DDPGVVAT	YEGEHNH	57
Ls WRKY22	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	HAPTC	CPVKKKVQSV	VEDQS	SILVATYEGEHNHP	58
Ls WRKY28	DGYQWRKYGQKVTRDNPC	SPRAYYKCS	FAPSC	CPVKKKVQSV	DDDEGLLV	VVYEGEHNHE	58
Dc WRKY34	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	YAPTC	CPVKKKVQSV	IDDS	SILVATYEGEHNHP	58
Dc WRKY45	DGYQWRKYGQKVTRDNPS	SPRAYYKCS	FAPNC	CPVKKKVQSV	VEDAS	IIVATYEGEHNH	57
Dc WRKY56	DGYQWRKYGQKVTRDNPC	SPRAYFKCS	FAPTC	CPVKKKVQSV	VEDQS	SILVATYEGEHNHP	58
Pg WRKY22	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	FAPTC	CPVKKKVQSV	IEDQS	SILVATYEGEHNHP	58
Pg WRKY31	DGYHWRKYGQKVTRDNPS	SPRAYYKCS	FAPNC	CPVKKKVQSV	VEDCTMV	VATYEGEHNH	57
Pg WRKY35	DGYHWRKYGQKVTRDNPS	SPRAYYKCS	FAPNC	CPVKKKVQSV	VEDCTMV	VATYEGEHNH	57
Pg WRKY38	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	FAPTC	CPVKKKVQSV	IEDQS	SILVATYEGEHNHP	58
Pg WRKY77	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	FAPTC	CPVKKKVQSV	IEDQS	SILVATYEGEHNHP	58
Pn WRKY14	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	FAPTC	CPVKKKVQSV	IEDQS	SILVATYEGEHNHP	58
Pn WRKY21	DGYQWRKYGQKVTRDNPS	SPRAYFKCS	FAPTC	CPVKKKVQSV	IEDQS	SILVATYEGEHNHP	58

Group II b

	*	20	*	40	*	60	
Cc WRKY4	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDQ	TILITTYEGTHNHP	58
Cc WRKY10	-DGCQWRKYGQKLAAGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDQ	TILITTYEGTHNHP	58
Cc WRKY21	NDGCQWRKYGQKIAKGNPC	PRAYYRCTIS	-PTC	PVRKQVQRC	PODMS	SILITTYEGTHNHP	59
Cc WRKY27	-DGCQWRKYGQKIAKGNPC	PRAYYRCTMS	-VGC	PVRKQVQRC	AEDQ	TILITTYEGTHNHP	58
Cc WRKY48	NDGCQWRKYGQKIAKGNPC	PRAYYRCTMS	-PSC	PVRKHVQRC	AEDRS	VLITTYEGTHNHP	59
Cc WRKY59	-DGCQWRKYGQKMAKGS	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDK	TILITTYEGTHNHP	58
Ha WRKY14	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	VDDQ	TILITTYEGTHHP	58
Ha WRKY22	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-TGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Ha WRKY24	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	LABDQ	TILITTYEGTHSHP	58
Ha WRKY26	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVS	-PTC	PVRKQVQRC	PODMS	SILITTYEGTHNHP	59
Ha WRKY65	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVS	-TNC	PVRKQVQRC	PODMS	SILITTYEGTHNHP	59
Ha WRKY66	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PGC	PVRKQVQRC	LEDMS	SILITTYEGTHNHP	59
Ha WRKY71	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDK	TILITTYEGTHNHP	58
Ha WRKY77	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDRT	VLITTYEGTHNHP	58
Ha WRKY81	-DGCQWRKYGQKI	SKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	IQDKTILITTYEGTHNHP	58
Ha WRKY101	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-TGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Ha WRKY104	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVS	-AGC	PVRKQVQRC	LEDMS	SILITTYEGTHNHP	59
Ha WRKY109	NDGCQWRKYGQKIAKGNPC	PRAYYRCTLS	-PSC	PVRKHVQRC	AENRS	VLITTYEGTHNHP	59
Ls WRKY13	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVS	-SSC	PVRKHVQRC	AEDRS	VLITTYEGTHNHP	59
Ls WRKY21	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	VDDQ	TILITTYEGTHNHP	58
Ls WRKY27	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVS	-PTC	PVRKQVQRC	PODMS	SILITTYEGTHNHP	59
Ls WRKY30	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PGC	PVRKQVQRC	LEDMS	SILITTYEGTHNHP	59
Ls WRKY32	-DGCQWRKYGQKIAKGNPC	PRAYYRCTMA	-AGC	LVRKQVQRC	AEDRS	SILITTYEGTHNHP	58
Ls WRKY38	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	WADDQ	TILITTYEGTHNHP	58
Ls WRKY46	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Ls WRKY47	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMV	-VGC	PVRKQVQRC	SMDDQ	TILITTYEGTHNHP	58
Ls WRKY74	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Dc WRKY4	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Dc WRKY15	NDGCQWRKYGQKIAKGNPC	PRAYYRCTMS	-PSC	PV---	QRCHEN	MSVLITTYEGTHNHP	55
Dc WRKY18	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-GGC	PVRKQVQRC	AEDRT	ILITTYEGAHNHP	58
Dc WRKY35	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PSC	PVRKQVQRC	SODMS	SILISTYEGTHSHP	59
Dc WRKY41	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Dc WRKY44	-DGCQWRKYGQKIAKGNPC	PRAYYRCTMA	-TGC	PVRKQVQRC	ADRS	SILITTYEGTHNHP	58
Dc WRKY46	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PGC	PVRKQVQRC	LEDMS	SILITTYEGTHNHP	59
Dc WRKY49	-DGCQWRKYGQKIAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRS	SILITTYEGTHNHP	58
Dc WRKY57	-DGCQWRKYGQKIAKGNPC	PRAYYRCSVT	-PSC	PVRKQVQRC	SODMS	SILITTYEGTHNH	57
Dc WRKY65	NDGCQWRKYGQKIAKGNPC	PRAYYRCTMS	-TSC	PVRKHVQRC	QEDLS	SILITTYEGSHNH	58
Pg WRKY3	-DGCQWRKYGQKIAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pg WRKY11	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pg WRKY32	NDGCQWRKYGQKIAKGNPC	PRAYYRCSVA	-SSC	PVRKQVQRC	SDDMS	SILITTYEGTHNH	58
Pg WRKY51	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pg WRKY56	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PTC	PVRKQVQRC	SDDMS	SILITTYEGTHNHP	59
Pg WRKY75	NDGCQWRKYGQKI	SKGNPC	PRAYYRCTVS	-PSC	PVRKHVQRC	AEDMSILITTYEGAHNH	58
Pg WRKY83	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pg WRKY90	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PAC	PVRKQVQRC	AEDMS	SILITTYEGTHNHP	59
Pg WRKY95	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PAC	PVRKQVQRC	AEDMS	SILITTYEGTHNHP	59
Pg WRKY97	-DGCQWRKYGQKIAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pg WRKY101	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PTC	PVRKQVQRC	SDDMS	SILISTYEGTHNHP	59
Pg WRKY113	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-AVG	PVRKQVQRC	SEDRT	ILITTYEGTHNHP	59
Pg WRKY115	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-AVG	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	59
Pg WRKY118	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PGC	PVRKQVQRC	LEDMS	SILITTYEGTHNHP	59
Pg WRKY120	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pn WRKY17	NDGCQWRKYGQKI	SKGNPC	PRAYYRCTVS	-PSC	PVRKHVQRC	AEDMSILITTYEGAHNH	58
Pn WRKY20	NDGCQWRKYGQKIAKGNPC	PRAYYRCSVA	-PSC	PVRKQVQRC	SDDMS	SILITTYEGTHNHP	59
Pn WRKY30	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PAC	PVRKQVQRC	AEDMS	SILITTYEGTHNHP	59
Pn WRKY31	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-VGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pn WRKY39	-DGCQWRKYGQKMAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pn WRKY42	-DGCQWRKYGQKIAKGNPC	PRAYYRCTMA	-AGC	PVRKQVQRC	AEDRT	ILITTYEGTHNHP	58
Pn WRKY47	NDGCQWRKYGQKIAKGNPC	PRAYYRCTVA	-PTC	PVRKQVQRC	SDDMS	SILISTYEGTHNHP	59

[illegible]

			*	20	*	40	*		
Cc WRKY5	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	STMLIVTVE	ENHN	P	58	
Cc WRKY15	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	PAMLIVTVE	ENHN	P	57	
Cc WRKY17	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Cc WRKY22	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Cc WRKY33	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Ha WRKY1	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	PAMLIVTVE	ENHN	P	58	
Ha WRKY15	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Ha WRKY17	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	STMLIVTVE	ENHN	P	58	
Ha WRKY55	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	MDGMLIVTVE	ENHN	P	57	
Ha WRKY57	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	STMLIVTVE	ENHN	P	57	
Ha WRKY63	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Ha WRKY65	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Ha WRKY93	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	STMLIVTVE	ENHN	P	57	
Ha WRKY100	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Ha WRKY102	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Ls WRKY1	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Ls WRKY23	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	ASMLIVTVE	ENHN	P	57	
Ls WRKY25	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Ls WRKY56	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	STMLIVTVE	ENHN	P	58	
Ls WRKY61	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	STMLIVTVE	ENHN	P	57	
Dc WRKY25	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Dc WRKY27	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	PEPSMLIVTVE	ENHN	P	58	
Dc WRKY33	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	DTMLIVTVE	ENHN	P	57	
Dc WRKY42	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PAMLIVTVE	ENHN	P	57	
Dc WRKY43	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PAMLIVTVE	ENHN	P	57	
Pg WRKY10	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	PSMLIVTVE	ENHN	P	58	
Pg WRKY41	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PSMLIVTVE	ENHN	P	57	
Pg WRKY55	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PSMLIVTVE	ENHN	P	57	
Pg WRKY61	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PAMLIVTVE	ENHN	P	57	
Pg WRKY66	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PSMLIVTVE	ENHN	P	57	
Pg WRKY77	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	PSMLIVTVE	ENHN	P	58	
Pg WRKY85	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	PSMLIVTVE	ENHN	P	58	
Pg WRKY99	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PAMLIVTVE	ENHN	P	57	
Pg WRKY117	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PAMLIVTVE	ENHN	P	57	
Pn WRKY7	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PAMLIVTVE	ENHN	P	57	
Pn WRKY19	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	PSMLIVTVE	ENHN	P	58	
Pn WRKY32	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PSMLIVTVE	ENHN	P	57	
Pn WRKY41	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERA	PAMLIVTVE	ENHN	P	57	
Pn WRKY48	E	YSWRKKYQKPKIGSP	FRGYVKCS	RGCCARKVERC	PSMLIVTVE	ENHN	P	58	

Group III

	*	20	*	40	*	60	
Cc WRKY1	-DDYEW	RKYGQKEILNSQFPRCYFRCTH	KDGHGCKALKQVQ	LEEELSSKFQIT	YFGLHTCP	61	
Cc WRKY2	EDGYT	WRKYGQKEILGSKFPRGYFRCTH	QKLYNCFPAKKQVQ	RLDNDP-YTF	EVYRGEHTC-	60	
Cc WRKY14	EDGFA	WRKYGQKEILNAKAPRCYFRCTH	KNE-GCKALKQVQ	KLED-GSQMF	HTITFYFGYHTCQ	60	
Cc WRKY28	DDGHA	WRKYGQKEIL-----	ECTYKLDQGLATKQVQ	KIDNEP-PLY	KITYMRSHTC-	51	
Cc WRKY29	DDGYA	WRKYGQKEILHHTNHQSYRCTY	KFDQGC	EATKQVQKTDDEP-SKY	KITYNGYHTC-	60	
Cc WRKY36	DDGYN	WRKYGQKEILGSKYPRSYRCTY	RKAKNCLATKQVQ	RTDEVP-AVF	EITAYKGKHTCN	61	
Cc WRKY45	DDGYS	WRKYGQKEILGAKHPRGYRCTY	RHSEGLATKQVQ	RTEDDP-NIENI	SYRGSHTCN	61	
Cc WRKY52	DDGYS	WRKYGQKEILGAKFPRSYRCTY	RYVHNCMARKQVQ	RTDEDP-TVFE	ITYRGKHAC-	60	
Cc WRKY56	-DGY	WRKYGQKEILGANHP----	RCTHRNFQGLATKQVQ	RSDEDS-SVFE	ITYKGRHTC-	55	
Ha WRKY12	DDGYG	WRKYGQKEILGAKFPRSYRCTY	RHAQNCMARKQVQ	RTDEDP-TVFD	ISYKQHTC-	60	
Ha WRKY13	DDGYS	WRKYGQKEILGSKFPRSYRCTY	RIIHC	MARKQVQRTNEDP-TVFE	ITYKQHTC-	60	
Ha WRKY30	NDGYS	WRKYGQKEILGASHPRAYRCTH	RNVQGLATKQVQ	RSDEDS-SVFE	ISYRGRHTC-	60	
Ha WRKY33	NDGYS	WRKYGQKEILNAKYHREYRCTY	RNTHGCCATKQVQ	RSSEDP-STFD	ITYLGKHTCP	61	
Ha WRKY36	DDGYN	WRKYGQKEILGAKFPRSYRCSY	RNSQKCFATKQVQ	RKDEDP-AGFD	IVYKGKHTC-	60	
Ha WRKY37	DDGYN	WRKYGQKEILGAKFPRSYRCSY	RNSQKCFATKQVQ	RKDEDP-TEFE	EITAYKGKHTC-	60	
Ha WRKY38	-DGYN	WRKYGQKEILGARFPRSYRCSY	RNAQKCFATKYVQ	RTDKDP-AEFE	ITYKGKHTC-	59	
Ha WRKY43	EDGYT	WRKYGQKEILGSRFPRGYRCTH	QKLYNCFPAKKQVQ	RLDNDP-FTFE	EVYRGDHTC-	60	
Ha WRKY44	EDGYA	WRKYGQKEILNSKFPRCYFRCTH	KDGHGCKALKQVQ	LEEESNMFI	TYFGKHTCP	62	
Ha WRKY50	EDGYV	WRKYGQKEILHAKFPRCYRCTH	KDE-GCKALRQVQ	LEEYGS	SEKRYTYIGSHTC-	60	
Ha WRKY51	EDGFA	WRKYGQKEILDAKFPRCYRCTH	KSE-GCKALKQVQ	KLED-GSERF	HTITYFGSHTC-	59	
Ha WRKY52	EDGFA	WRKYGQKEILDAKFPRCYRCTH	KNE-GCKALKQVQ	KLED-GSERF	HTITYGSHTC-	59	
Ha WRKY59	DDGYA	WRKYGQKEILNSKHQRYRCSH	KFEQGCATKQVQ	KTDDEP-SKY	KITYIGVHTC-	60	
Ha WRKY60	DDGYA	WRKYGQKEILNSKYQRYRCSY	KFEQGCATKQVQ	MIDDEL-PKY	KITYCGHHTC-	60	
Ha WRKY61	DDGYA	WRKYGQKEILNSKHQRYRCSH	KFEQGCATKQVQ	KTDSKP-SNY	KITYNGLHTC-	60	
Ha WRKY64	DDGYA	WRKYGQKEILNSKHQRYRCSH	KFEQGCATKQVQ	KINDKP-SKY	KITYNGRHTC-	60	
Ha WRKY76	NDGHN	WRKYGQKEILNAKYPREYRCTY	RNTHGCCATKQVQ	RSQDP-STFD	ITYLGKHTCP	61	
Ha WRKY78	DDGYS	WRKYGQKEILGAKFPRSYRCTY	RIHQCMARKQVQ	RTDEDP-MVFE	ITYRGQHTC-	60	
Ha WRKY86	EDGFA	WRKYGQKEILNSKSPRCYFRCTH	KHVHGC	KAQKQVQKLEDG-SNM	HTITYLGKHTCP	61	
Ha WRKY87	EDGYA	WRKYGQKEILNSDFPRCYFRCTH	KQVYGCKALKQVQ	KLDG-SNMF	QITYFGHHTCP	61	
Ha WRKY88	EDGYA	WRKYGQKEILNSNFPRCYFRCTH	KQVHGC	KAQKQVQKLEDG-SNM	HTITYFGHHTCP	61	
Ha WRKY89	EDGYS	WRKYGQKEILGSKFPRGYRCTH	QKLYNCFPAKKQVQ	RLDNDP-YTF	EVYRGDHTC-	60	
Ha WRKY90	DDGYA	WRKYGQKEILNSKYQRYRCSH	KFEQGCATKQVQ	KTDDEP-PMY	RTYHRHTC-	60	
Ha WRKY92	EDGFA	WRKYGQKEILDAKFPRCYRCTH	KNE-GCKALKQVQ	KLED-GSERF	HTITYGSHTC-	59	
Ls WRKY5	EDGYT	WRKYGQKEILGSRFPRGYRCTH	QKLYNCFPAKKQVQ	RLDNDP-NTFE	EVYRGDHTC-	60	
Ls WRKY6	EDGYS	WRKYGQKEILNSKFPRCYFRCTH	KHVLGCKALKQVQ	KLEDE-TNML	HTITYFGYHTC-	60	
Ls WRKY7	EDGYA	WRKYGQKEILNSQSPRCYFRCTH	KPDHGC	KAQKQVQKLEDE-SNM	HTITYFGHHTC-	60	
Ls WRKY15	-DGY	WRKYGQKEILGANHPRAYRCTH	RHVQGLATKQVQ	RSDEDS-SVFE	ITYRGRHTC-	59	
Ls WRKY34	NDGYS	WRKYGQKEILGAKFPRSYRCSY	RKVQKCLATKQVQ	KTDDEP-TVFE	ITYRGRHTC-	60	
Ls WRKY35	DDGYS	WRKYGQKEILGAKFPRSYRCTY	RYVHNCMARKQVQ	RTDEDP-TVFE	ITYRGKHSC-	60	
Ls WRKY45	-----	WRKYGQKEILNAKYPREYRCTY	RNTHGCCATKQVQ	RSDDDS-SIFE	ITYLGKHTC-	55	
Ls WRKY50	DDGYN	WRKYGQKEILGAKHPRGYRCTY	RQLQGLATKQVQ	RTNEDP-NIENI	MTYQGIHTC-	60	
Ls WRKY65	-DGH	WRKYGQKEILNANHQRSYRCTY	KSDQGLATKQVQ	MIEDKP-PKY	RTITYFGNHTC-	59	
Ls WRKY66	-DGHV	WRKYGQKEILNAKHKNRYRCTH	KFDQGCATKQVQ	TEHEP-TKY	KITYNRHHIC-	59	
Ls WRKY67	DDGHA	WRKYGQKEILNAKHQRNYRCTH	KTDQGCATKQVQ	MTDEDP-PQY	KITYSGHHTC-	60	
Ls WRKY68	-DGH	WRKYGQKEILNNTNHQRSYRCTY	KFDQGLAAKQVQ	KIQDKP-PKY	KITYMRNHTC-	59	
Ls WRKY71	EDGYA	WRKYGQKEILNAKFPRCYFRCTH	KTE-GCKALRQVQ	KLED-GSQMF	HTITYGNHTC-	59	
Dc WRKY6	-DGY	WRKYGQKEILGAAHPRSYRCTY	RKTRSCATKQVQ	RSDDDS-AIFE	ITYKGKHTC-	59	
Dc WRKY9	DDGYS	WRKYGQKEILGATFPAYRCTH	RTHQGLATKQVQ	QSDSDQ-SVFE	HTICKGRHTC-	60	
Dc WRKY21	-DGH	WRKYGQKEILGATFPAYRCTY	RHSQGLATKQVQ	KSDDDS-SLVQ	VTYKGSHTC-	59	
Dc WRKY23	DDGYN	WRKYGQKEILGAKYPRGYRCTH	RHAQGLATKQVQ	RSDDNDP-TLFE	ITYRGRHTC-	60	
Dc WRKY38	EDGYS	WRKYGQKEILNSKYPRCYFRCTY	KHEQGCALQVQ	QLEDD-KRM	YNITYFGQHTC-	60	
Dc WRKY50	EDGFT	WRKYGQKEILGSRFPAYRCTH	QKLYNCFPAKKQVQ	RLADDP-FTFE	EVYRGDHTC-	60	
Dc WRKY53	-DGH	WRKYGQKEILNAKYPRHYRCTH	KFEQGCATKQVQ	TEEDPAPMY	RTITYRGRHTC-	60	
Dc WRKY61	EDGYS	WRKYGQKEILGATHPRSYRCTY	RNTQMCYATKQVQ	RSDDNDP-TIFE	ITYKGKHTC-	60	
Pg WRKY12	-DGY	WRKYGQKEILGARFPAYRCTH	RHAQGLATKQVQ	KSDSDP-SILG	ITYRGRHTC-	59	
Pg WRKY16	DDGYS	WRKYGQKEILGAKYPRSYRCTY	RNTQTCWATKQVQ	RSDEDP-ALFE	ITYKGRHTC-	60	
Pg WRKY25	DDGYS	WRKYGQKEILGAKYPRSYRCTY	RNTQTCWATKQVQ	RSDEDP-ALFE	ITYKGRHTC-	60	
Pg WRKY34	DDGYS	WRKYGQKEILGATYPRSYRCTY	RNTQTCATKQVQ	RSDDDP-TVFE	ITYRGKHTC-	60	
Pg WRKY43	DDGYS	WRKYGQKEILGAKYPRGYRCTN	RHIQGLATKQVQ	RSDDSDP-TIFE	ITYRGRHTC-	60	
Pg WRKY46	EDGYT	WRKYGQKEILGSRFPRSYRCTH	QKLYQCFPAKKQVQ	RLDHDP-FTFE	VYRGHHKC-	60	
Pg WRKY47	DDGYA	WRKYGQKEILNSKYPRCYFRCTH	KDQGCALQVQ	QFEND-TKM	ENITYFGRHTC-	60	
Pg WRKY72	-DGY	WRKYGQKEILGARFPAYRCTY	RHAQGLATKQVQ	KSDSDP-SILG	ITYRGRHTC-	59	
Pg WRKY84	-EGY	WRKYGQKEILGASFPRAYRCTH	RHAQGLATKQVQ	KSEENP-SLLE	VYRGRHTC-	59	
Pg WRKY92	DDGYA	WRKYGQKEILNSKYPRCYFRCTH	KDQGCALQVQ	QLEND-TKM	ENITYFGRHTC-	60	
Pg WRKY100	EDGHA	WRKYGQKEILNAKYPRNYRCTH	KFDQGCATKQVQ	RTGEDP-PIY	RTYVHDHHTC-	60	
Pg WRKY104	-DGY	WRKYGQKEILGASFPRAYRCTH	RHAQGLATKQVQ	KSEENP-SLLE	VYRGRHTC-	59	
Pg WRKY114	DDGYS	WRKYGQKEILGATYPRSYRCTY	RNTQTCATKQVQ	RSDDDP-TVFE	ITYRGKHTC-	60	
Pg WRKY119	EDGYA	WRKYGQKEILNAKYPRNYRCTH	KFDQGCATKQVQ	RTGEEDP-PMY	RTYVGHHTC-	60	
Pn WRKY4	DDGYS	WRKYGQKEILGAKYPRGYRCTN	RHIQGLATKQVQ	RSDDNDP-TIFE	ITYRGRHTC-	60	
Pn WRKY5	DDGYA	WRKYGQKEILNSKYPRCYFRCTH	KDQGCALQVQ	QFEND-TKM	ENITYFGRHTC-	60	
Pn WRKY10	-DGY	WRKYGQKEILGASFPRAYRCTH	RHAQGLATKQVQ	KSEENP-SLLE	ITYRGRHTC-	59	
Pn WRKY12	-DGY	WRKYGQKEILGARFPAYRCTH	RHAQGLATKQVQ	KSDSDP-SILG	ITYRGRHTC-	59	
Pn WRKY29	DDGYS	WRKYGQKEILGATYPRSYRCTY	RNTQTCATKQVQ	RSDDDP-TVFE	ITYRGKHTC-	60	
Pn WRKY56	DDGYS	WRKYGQKEILGAKYPRSYRCTY	RNTQTCWATKQVQ	RSDEDP-AVFE	ITYKGRHTC-	60	

Group UN

	*	20	*	40	*	
Cc WRKY8	EDGYN	WRKYGQKQVKGSENPRSYKCTY	PNCPTKKKVERNLEGH	TEIVYKGN	SH-	56
Ls WRKY2	DDGYR	WRKYGQKQVKGNNNRSYYKCVSS	NCKVKKTIETNFDGQITK	AYTGSHNHP--		54
Dc WRKY52	EDGYN	WRKYGQKQVKGSEYPRSYKCTY	QNCQVKKVVERSLDQTE	IIYKGA	NHP	57
Pg WRKY42	DGYR	WRKYGQKQVKGMPHPRNYRCT	SAGCPVRKH	ETANDSRSSVITYKGI	EDH-	56
Pg WRKY122	EDGYN	WRKYGQKQVKGSEYPRSYKCTY	PNCPTKKKVEGSQEGH	TEIIYKGA	TH-	56

