



BpWRKY39	.E.DGNESTAVEINKVQ.LA.E	23
BpWRKY40		1
BpWRKY42	MGREREREIEIHKQEEEEEQEEDDKTLPN	29
BpWRKY43		1
BpWRKY44		1
BpWRKY45	MLKMPCSSSAVTADENSF.E.IGHESQESSQVQSRVL.EIG	44
BpWRKY48		12
BpWRKY49	MEEIISLLIQQGCKARE.ES..PNLADKP.MLS	34
BpWRKY50		19
BpWRKY52	WKLAMDAALNRSPPPTIQFPLN.NF.HHRQDSPP.SDDDK	103
BpWRKY53	WKLAMDAALNRSPPPTIQFPLN.NF.HHRQDSPP.SDDDK	103
BpWRKY59	MKIMDQBERGAPNYE.QVSFSNT.AIHEMG	31
BpWRKY60		1
BpWRKY64	MEVMASTWSDVSEDD	16

	170	180	190	200	210	220	230	240	
BpWRKY1	YEEAPKREFVRDFAQVDDGKAPVKFEAAGLAGELNRMSSSENKKLTEMALHLFED	77							
BpWRKY2	PMTSHSSK.IHHL.DMEPHTSNCQ.KVET.KAD.KSLLK.E.S.RF.VEVMKSK	75							
BpWRKY5	PPSNISGSSAYNSQGFDPSSYISFTESLQAP.DYNSLASAFG.SPSSSE	69							
BpWRKY8	SGCTNEAPTTFADPESIFAPLCAVEDHDLRLIFPEISDT	50							
BpWRKY10		1							
BpWRKY11	KRYEEETAI.DDQLQSARA.MGEVRE.QR.KKD.DRMVK	60							
BpWRKY12	PRKATEELIQGRQFNQLRG.LGK.IGDDGSVPAKDLVLKI	53							
BpWRKY13	NSSKGSTHTVNQKKVCADDDLHADELHVNEDSMFLVQLIDVQA..Q.HV..ER.RDRINQVNNN	134							
BpWRKY14	NNHQPHDEQHHRKNGSSTQVSDPAGVNTGLHLRT.NSGMSRSANEKPNK.LIR.RE..E.LHQD.R..RSR.DLITKN	221							
BpWRKY15	DHISDGYPFSGIFDFSSEGEKSSLGFMBLLGVQADYSSPSLFD.PSAPP	70							
BpWRKY16	MDPSL.PKPDQ.VS.ELKPE.QASKR	26							
BpWRKY19	MGFFSFPSNLSSLPPLGCHQSLKAFTTIPPSLSSDAP..NLITETLLSS.TTKQR	54							
BpWRKY20	MDSPVNPNNPNYMH..DS	19							
BpWRKY21	MDSPVNPNNPNYMH..DS	19							
BpWRKY22	MGFFSFPSNLSSLPPLGCHQSLKAFTTIPPSLSSDAP..NLITETLLSS.TTKQR	69							
BpWRKY25	MATT.DLEQTAIT.DLNQCK.L.KQLMNLHP..SHETREFLVEKILSC	49							
BpWRKY26	MEGQNQPPFLTSSLPPSS..SLHPPNN.DPEIDW	37							
BpWRKY27	TATSSTTTATVVTNTTNNNTCFLANFHPNSCFSAFGG.QCGQLFSFPDPL.E	70							
BpWRKY28	LVRELLNDQSPFFVLPEKMMITTEPNTSALNEEAINRL	50							
BpWRKY29	LVRELLDDQSPFFVSPKMMITTT.PNTSALNEEAINHL	55							
BpWRKY30	DPFGYIRDPLLHHELDVSGSPGFFSSPSSGEMGRSSSVDDKAGGFSTTHVFEMKRPS.MLRMLQISPNAL	137							
BpWRKY31	MSE.QSRRQ.MYDSF.LLT..SF.SP	27							
BpWRKY32	MDRRFINNHPTGTDDQEEEAATPQNGAESPPSI	36							
BpWRKY33	VKKENSHGEEAPRPLGLDVNTGLHLTANTGSDQST.DGIGSS.AEDKRA.S.L.Q.QV..QH.N..QR.RD..GQVTNN	170							
BpWRKY35	SNHCQKFEKHPSNIDAGLK.LLDLNNVKQPVILSMVRVK.EQIKE..RN.KG..DRATKK	88							
BpWRKY37	WPLGPDSESVYFFSNDRESSILSEFGW.LHPEDPNRIQFDD.SDLAG	66							
BpWRKY39	KNTKDL.LSTRQNQQDQKLAE.MGEVKE..ER.KML.GRIAK	67							
BpWRKY40	MENYPIFSSSSSTPPASS.SLM.DHSIG	29							
BpWRKY42	DTEEVAEATAGEVDDASLLQGSLLQNMKTDK.LSV.QM.M..KE..RV.RKVVEQTIK	90							
BpWRKY43	MENYQMFFPASS.GQSNDYIP	21							
BpWRKY44	MRSHFKPGSSSSTGFVGIEDQRRQQQQQQN.PYQ	35							
BpWRKY45	SLNRSSTSYEDLRN..E-VN.IESAKA.MGEVRE..ER.KV..EQIEK	92							
BpWRKY48	R.KVIKELVQGC.TQLKT.LHKTLDHGLSLAEELVSKI	53							
BpWRKY49	KSC.EIINA.RSAKERLHSSQEAHDPHMFRLQQAETQI.TSLQGWKRPSAYS	89							
BpWRKY50	FFNNNPTQNPGGFEPMSFTDCLHGS.DYNTLSRAFDMSCSPS	62							
BpWRKY52	VSTDNKDFDRPTSLQFNVNTGLNLLTTNTSSDQST.DGIGSPNVEDKRA.S.L.V.QA..E..KA..QR.K..NQVTNN	183							
BpWRKY53	VSTDNKDFDRPTSLQFNVNTGLNLLTTNTSSDQST.DGIGSPNVEDKRA.S.L.V.QA..E..KA..QR.K..NQVTNN	183							
BpWRKY59	FVQFEDNQVLSFLAPSQTSQMSQPLS.GGTTTTTATTGATSNTNP.SIGFS	83							
BpWRKY60	MSAGSNNYEPLDHFARQYVPDQSI.DL	28							
BpWRKY64	LVRELLDDQSPFFVLPEKMMITTTT.PNTSALNEEAINHL	56							

	250	260	270	280	290	300	310	320	
BpWRKY1	YHALQTHLMGQGLANNNSQKEFTSRKRKAESDY	112							
BpWRKY2	CKI.EA..QETKAVGMDMI	96							
BpWRKY5	VFSSENNPNYKPTIEVA	86							
BpWRKY8	TTV.DELEN.YKPFYP	66							
BpWRKY10	MKVETT	6							
BpWRKY11	.QT..MRFYDLYQGEGRNKHQIEEIPDHQFVSLSLGRLPSD-T.KDEKTNIN	115							
BpWRKY12	LNSFTNT.SMLNSAES	69							
BpWRKY13	.ND.KM..ATLLTSQH	172							
BpWRKY14	.SE..GQ.LVA.QKQAQQNRQEQQVEPNGMSRSAQQFIDPRPSSAALDHVNNHNSVNSGDKTQ	284							
BpWRKY15	SVAPSSAPLP	80							
BpWRKY16	RKVV.KN	33							

Protein	Sequence	Length
BpWRKY19	EDTTSDFR	62
BpWRKY20	DPFSSDFE	27
BpWRKY21	DPFSSDFE	27
BpWRKY22	EDTTSDFR	77
BpWRKY25	.EKALST.N	58
BpWRKY26	VSL.SAGQ	45
BpWRKY27	RNVFEELELYKPFPPK	87
BpWRKY28	ISTVYSGPTIGDTENAE	67
BpWRKY29	ISTVYSGPTIGDIENTA	71
BpWRKY30	LASAAASPCASPVM.AS	154
BpWRKY31	RSYEENER	35
BpWRKY32	FNDMKLASVS	46
BpWRKY33	.SV..M..VAF.QQQQ.HGADRTQEHEVVDQKGSEERKHEV.NSGGVVPRQFMDLPGGPAETDEVSHSSSEDRT---V	246
BpWRKY35	.TD..SQ.LSA.QQPAA--HINNYLPKDERNEMDGLSQARRQSIEPVPSSST.ILDINEPSHSNDDKTQYER	158
BpWRKY37	SFG.PDNNTSNP.QGS	83
BpWRKY39	.QS..M.FFDVLQQEEA---KSTDTISN---HPAKEEPLVSLSLGMTSTDDLAK.HDKNSMNLNNGGQEDE	134
BpWRKY40	.NEFGSK---	37
BpWRKY42	.D..MKFTTHQNNHE--KDPQIFLSLRGNDEA.QEQ.TVPEILGI	135
BpWRKY43	FSTKMES	29
BpWRKY44	QRQVLHQCEFR	47
BpWRKY45	.S..LRFFDITIKQESP---KKSTESSAPRLHDETDEPELVSLCLGRSPSDQ-P.KEKA..S---STNYE	156
BpWRKY48	LKSFTET.SALSSFES	69
BpWRKY49	TQPIMDM.QM.LQADRS	106
BpWRKY50	.QVIEDNLTVK---	73
BpWRKY52	.N..M.FVTI.QSQK---AKKG-TEENGKLVGKDMI VPRQLVDLRLAT.GADENSLSSSEGGK.SHIDR	250
BpWRKY53	.N..M.FVTI.QSQK---AKKG-TEENGKLVGKDMI VPRQLVDLRLAT.GADENSLSSSEGGK.SHIDR	250
BpWRKY59	HND.VLD.L.I.IRSEQ	100
BpWRKY60	SDF.TDDQWDE	40
BpWRKY64	ISTVYSGPTIGDIENTA	72

	410	420	430	440	450	460	470	480	
BpWRKY1	IKTKASRVCVR	DAS-DKSLITVK	DGYQWRKY	GQKVTRDNP	SPRAYFKCSFAP	SCPVK	KKVQRSAED	PSMLV	210
BpWRKY2	-Y. TQ. IL. . .	SDQ. N. . V.		K.			CL. . K. V. M		187
BpWRKY5	KGE. KQKEPRFAF	MTKSEVDHLE.	. R.	AVKNS.	Y. S. YR. TTQK	G. .	R. E. . FQ. .	TVVI	219
BpWRKY8	RRISKKNQPKV	QHVAGEGHGS.	LWA.	PIKGS.	Y. S. YR. SSKG	TAR	Q. E. . NL. .	GVFI	173
BpWRKY10	KGD. QIKKQRYAF	QTRSQVDILD.	. R.	GVKNSK	F. S. Y. TYKG	N.	QI. LTK. EEIV.		98
BpWRKY11	SQQNPVKKARV	SVRARCETP. MN.	C.	IAKETMPS.	ILSLYC. TLL	RKKTVLIRPS	APPS. C. . .	M. I. I	257
BpWRKY12	RRGCYK. RRTSL	TTK. TPTLID.	HA.	LILNAK	Y. H. YR. THKYDQ	G. QAA	Q. . IQ. . A. HR		180
BpWRKY13	TLSSLI. KARVSV	RARSDAYMIS.	CH.	MAKG.	F. . YR. TMGS	. R	Q. . C. . R. I. I		285
BpWRKY14	PELVPI. KARVSV	RARSEAPLIG.	C.	MAKG.	F. . YR. TM. V	G. . R	Q. . V. . KTI. I		417
BpWRKY15	N-Q. RQ. EPRFAF	MTKSEVDHLE.	. R.	AVKNS.	F. S. YR. TTTS	N.	R. E. . FT. . IV.		209
BpWRKY16	-VVTVRIGANV	GKLKNEGPPS.	FWS.	PIKGS.	Y. G. YR. TSKG	SA.	Q. E. CRT. A. . I		101
BpWRKY19	KARRKV. EPRFCFK	TMSDVDVLD.	. K.	VKNNTQ	H.				155
BpWRKY20	DIG. . .	HRVAFRTKSQ	LEIMD. . FK.	K. AVKNS.	N.	WGG		AA	116
BpWRKY21	DIG. . .	HRVAFRTKSQ	LEIMD. . FK.	K. AVKNS.	N. N. Y. . SGG	N. .	R. E. ERD. . YVI		138
BpWRKY22	KARRKV. EPRFCFK	TMSDVDVLD.	. K.	VKNNTQ	H.				170
BpWRKY25	KTLPRTWTEQ.	KVCSGTGLEGLD.	. S.	DILGAN	F. G. YR. THRG	QG. LAT	L. . . D. . AI. E		161
BpWRKY26	GRM. KATRPRFAF	QTRSADDILD.	. R.	AVKNSV	Y. S. YR. THHT	N. .	Q. . LSK. T. IV.		154
BpWRKY27	PRS. RRKNLLKKV	CQVPAEGLSS.	VWA.	PIKGS.	Y. G. YR. SSKG	LAR	Q. E. NKS. G. FI		209
BpWRKY28	GLN. VENKYTKIK.	YAGNVMAD.	. K.	SIKNS.	N. S. YR. TNPR	SA.	Q. EW. S. . ET. I		179
BpWRKY29	GLN. VENKYTKIK.	YG-NVMAD.	. K.	SIKNS.	N. . . . TNPR	SA.	Q. E. . S. . ET. I		161
BpWRKY30	K. VICIPAPAAA	NSRPTGEVVPS.	LWA.	PIKGS.	Y. G. YR. SSKG	SAR	Q. E. NRA. N. .		275
BpWRKY31	LRKPVRGIEEEQ.	MDARLVLPE.	. E.	FI. NIG	KF. S. . . QRSN	SA.	RAEW. S. . GT. R		107
BpWRKY32	-VPIKDVESRLK	GESNTPPS.	SWA.	PIKGS.	Y. G. YR. SSKG	AR	Q. E. RA. T. I.		134
BpWRKY33	AAEATM. KARVSV	RARSEAPMIS.	C.	MAKG.	C. . YR. TM. V	G. . R	Q. . C. . R. I. I		368
BpWRKY35	-VSCKKARVSI	RARSDAPLMM.	C.	MAKG.	C. . YR. TMSI	G. . R	Q. . C. . M. I. T		276
BpWRKY37	G-Q. RI. QPRFAF	MTKSEVDHLE.	. R.	AVKNS.	F. S. YR. TNSR	T. .	R. E. . S. . TIVI		204
BpWRKY39	LQQNPLKKARV	SVRARCETP. MN.	C.	IAKG.	C. G. YR. TVSS	. R	Q. . CVD. M. I. I		267
BpWRKY40	KGE. KI. KPRYAF	QTRSQVDILD.	. R.	AVKN. K	F. S. YR. THQG	N. .	Q. . LTK. EGIVL		147
BpWRKY42	SASQ. N. KARVSV	RARCEAA. MN.	C.	IAKG.	C. . YR. TV. G	. R	Q. . CL. M. I. I		277
BpWRKY43	KVE. KI. KPRHAF	QTRSQVDILD.	. R.	AVKN. K	F. S. YR. TYQG	N. .	Q. . LTK. EGIV.		143
BpWRKY44	RSR. RKSQKK.	VCHVTAENLSA.	VWA.	PIKGS.	Y. N. YR. SSKG	AAR	Q. E. . NIE. N. FI		135
BpWRKY45	SQQNHVKRARV	SVRARCETP. MN.	C.	IAKG.	C. . YR. TV. E	. R	Q. . CY. K. I. I		284
BpWRKY48	RRGCYR. RKTHTT	TITLSPTVEN.	HA.	EILNAK	H. S. . R. TRKYDQ	G. RAT	Q. . MEGN. Q. FQ		181
BpWRKY49	DDGERRTEI. AAP	RIGNTDIPPE.	. T.	EILGSK	F. G. YR. THQR	LYQ. A.	Q. . LDD. . YKFE		235
BpWRKY50	-E. RQ. EPRFAF	LTKSQIDHLE.	. R.	AVKNS.	Y. S. YR. TSQK	N.	R. E. CFQ. . VVI		196
BpWRKY52	QTEATM. KARVSV	RARSEAAMIT.	C.	MAKG.	C. . YR. TM. N	G. . R	Q. . C. . RTI. I		380
BpWRKY53	QTEATM. KARVSV	RARSEAAMIT.	C.	MAKG.	C. . YR. TM. N	G. . R	Q. . C. . RTI. I		368
BpWRKY59	KVRRKL. EPRFCFK	QTRSDVDVLD.	. K.	VKNSL	H. SVIRGRDW	WLP	A. SEKMVVFQ. L. S		215
BpWRKY60	HERREGLRERVA	FRTISEVEVLD.	. FK.	K. MVKNS.	N. N. YR. VDG	. . .	R. E. DN. . RCVI		154
BpWRKY64	GLN. VENKYTKIK.	YG-NVMAD.	. K.	SIKNS.	N. S. YR. TNPR	SA.	Q. E. . S. . ET. I		166

	490	500	510	520	530	540	550	560	
BpWRKY1	AIYEGEHNMNPS	QAEIFSFA	PSQCAN						236
BpWRKY2	. T. D. K. . .	DVHG	-T. LGDSSSS						209
BpWRKY5	TT. . . Q. . .	PV. ATLR							235
BpWRKY8	VT. TS. . .	TH. TRNSLAGS	RRSKFP	SPE					203
BpWRKY10	TT. . . M. T. .	PLNKTTA							114
BpWRKY11	TT. . . T. . .	PL. MS. TGMAS	TTSA. ASMLLSG	SSSSGQ					328
BpWRKY12	TT. I. Q. TCR	TFPK. PELILD.	SP-TDSHF						209
BpWRKY13	TT. . . R. . .	PL. PA. . AMVST	TTA. ASMLLSG	PMPSSAD					338
BpWRKY14	TT. . . N. . .	PL. PA. TAMANT	TTSA. AAMLLS	GLRIQHG					455
BpWRKY15	TT. . . Q. I. .	PS. VMPR							225
BpWRKY16	IT. TSS. . .	PG. DLSTTN	LIRP	EE					126
BpWRKY19	-	LERFKSQ	FNL						166
BpWRKY20	KTTSFIEFAE	SDCFRL							132
BpWRKY21	TT. . . V. . .	ES. CVVY							154
BpWRKY22	-	LERFKSQ	FNL						181
BpWRKY25	VT. R. R. TCSQA.	RSNVASG.	RLITEKKN	HDDQKK					197
BpWRKY26	TT. . . I. . .	PCEKLM							169
BpWRKY27	VT. TA. . .	PA. THNSLAG	STRQK	LTPQTATAGDS					246
BpWRKY28	IT. VRR	APLTLCLP	ILFT						197
BpWRKY29	IT. . . .	LHLHF. YPY.	LHD. NYVDPA						187
BpWRKY30	IT. TS. . .	PW. T. RNALAG	STRSQPSKNN						306
BpWRKY31	VV. . . V. T. .	GS. AS	ES						123
BpWRKY32	VT. SC. . .	PL. ASRNHHN	GHNQSTTPK	PEKPEPVPE					173
BpWRKY33	TT. . . N. . .	PL. PA. MAMAS	TAA. ASMLLSG	SMSSADGIM					426



BpWRKY35	ST. . . N . . . PL. PP. TF	MASTTSA. VSMLLSG	STT	SN	313
BpWRKY37	TT. . . Q . . . C . . . HTV	GFPR			220
BpWRKY39	TT. . . T . . . PL. IS. TAMASTTSA. ASML	QSRSSSSS	QLGGLGTSATAPLSTSTANNLHGFNFSTVSQNSRPPQFY	IPNS	347
BpWRKY40	TT. . . M . . . S . . . PIEKST				162
BpWRKY42	TT. . . T . . . PL. VG. TAMASTASA. SFMLLD	SSNP	TS	SFTQAS	324
BpWRKY43	TT. . . V . . . T . . . PIEKPT				158
BpWRKY44	VT. T. . . T . . . PR. THRNSLAGSTRN	KCSAPHKS	SIDKENSASLS		186
BpWRKY45	TT. . . T . . . PL. VS. AAMASTTSA. ASMLLS	GSSMS	QPGLG		358
BpWRKY48	TT. I. H. TCREILKTPQIITE. HAWELTNFF				212
BpWRKY49	VT. R. D. TCHMS. T. PSIPP.				256
BpWRKY50	TT. . . Q . . . HY. ATLR				212
BpWRKY52	TT. . . N . . . S . . . PL. PN. MAMASTTSS. AKMLLS	GSMSS	ADGLM		438
BpWRKY53		NTPAMLLKHG		NSNFLTRTLLPCSSSM	384
BpWRKY59	CVNL. . . KDMSLWLP. KN			NNLSLS	232
BpWRKY60	TT. . . V . . . QSSF				167
BpWRKY64	IT. . . . . LHLHF. YPY. LHD. NQYVDPA				192

	570	580	590	600	610	620	630	640		
BpWRKY1	---	LGSVHLSSSMRSSAPRV	TLDLI	QP		ALCGAKN	SIQED	DESPRA	278	
BpWRKY2	---	SDT. ARG. MANIIS. PRMANNN.				F. QPMALDL	LSGPHQEN. R		253	
BpWRKY5	-	GNAA. MFPP. MFTPPTGGGP. SFP				HHHQDLF	FRWR		270	
BpWRKY8	-	KKGNF. -PTTPL. AAAI	EDEFVQSHAS		GKNHEEEE	MVQGNVDQGNVISMPDNI	ILDNEIFFP	LED	269	
BpWRKY10	-	DSFEQIFRQMQTYAPLYMK							133	
BpWRKY11	SYSSSS. F	PTITL	DLT. TSSSSSSSH. FNKF	SSYYPRYN		YSPTSLNFSNSSD	HQPNAISWGYAN		394	
BpWRKY12	-	VLSFDNTFTNKHNPVHPFLSSSF. S		VKQEHKEEMP	SD	DVTHNQSSSSDYL	VSPD. TAFD.		270	
BpWRKY13	TLSTASAPF	PTVTL	DLTDH. -HNS. NNLP			QVFGQS. PNQS. YFGLYGSQGM	DL		391	
BpWRKY14	NPI	GCTISHHPRLDTE. QPMQPTTFPH	RIPAVPSSA			TIFPL. H. FQHLG	HPVYSF. SS		517	
BpWRKY15	-	QILA. APPD. GFSGGR. ASGFAMP. .	RSICHYQQQRQPI	SHIHALSPSNF	ANYGLTNNPAGNY		LRIRFCN		298	
BpWRKY16	-	PEQTH. TEDLPTPTKEEQQETAE	EBBEKQNDPIM	STTEKD	HDFHYIQSPIR	CLDIIVNQGBEDP	FTVHLEKTHEIM	G	204	
BpWRKY19	-	L							167	
BpWRKY20	-	G		LK. CT					138	
BpWRKY21	-	YNQTPLMVP. GWT	LQASSV						173	
BpWRKY22	-	L							182	
BpWRKY25	EKL	PQET. RNFAARLT	VKTEY. EAREDDIF	PSFSIGSEN	BEANIFCESML	ENNFMAS. SPTFLS	PATS. SNMF. MSPCQ		277	
BpWRKY26	-	ETLTPLLKMQQLSRF							185	
BpWRKY27	-	KKLNSTKPS. PATSMEDL. VPQSTTT		DSKEREDLVE		DEEDEFGLSDV	AMSDD	FFVGL	308	
BpWRKY28	-	RPK- PVC. SNQE. QEYVLSQR.		NPMKPNK	LKLP	TKAQQLRL	RY		243	
BpWRKY29	-	IKKHKNSTI. RAQAHE. QQTQDAQES.		AYLTGTPVLS	P	EDQGGIIM. SQGLLE	DVVPMMIRNP		251	
BpWRKY30	-	NGAAANSKNKPTSPKEEQKDQSSNE	ANVSPSTTT	STACVKEEIDHDHQDI	EKMDDAD. ISTGTDHGF	PPYRAMP. G			383	
BpWRKY31	-	ASSAHSGT. . ANQYDLLTQVFGDRS				TYNDHIDN			156	
BpWRKY32	-	KQLDQETTS. AVLADL	GDESLML	SDEFGWFS	DMETTSS	TVLESPIFADSSV	GGDADLAMFFPMREE	DESLYADLGELPE	252	
BpWRKY33	TISASAPF	PTVTL	DLTHS. NPLQFQRT. AQFPVHF	AGQPQSGSVPT	QPLPG	QFGQ. . YNQS	KFAGL. LSQD	MGPSQLA	506	
BpWRKY35	NIFNPP. NSGL	FLPM. KY. STVAT. STAPHPTITL	DLT			HIPQRNMQSLQRRAL	DPPLFMSS		376	
BpWRKY37	-	G- . . VISHETFAGQFH. P. SQFYYP		TGAPLP	QENPFITQSQ	IPG	EAGDESSRAMP	GTP	279	
BpWRKY39	SFSTSN. H	PTVTL	DLTT. . STSSSF	ERFSSTPRYP	STRLN		FSSSLDQPNLTQNH	RGYGYGYSNYGY	416	
BpWRKY40	-	DNFEHILTQMQLFS. Y							178	
BpWRKY42	M	INPSSHPSNLTITINPNDPSK	GIVL	DLTTN	PYDHHHPP	QFMPAG	PSSYS	SSSSSS. H. FA. WMHGKQSYHN	NATN	402
BpWRKY43	-	DNFEHILTSQMQLYAPF							174	
BpWRKY44	PQSATSLSP	PTPLTVQTD	EEATIA	NKSN	EEENKIMIDGN	DKESEEMADDY	DEDDDEI. IPNMAMT	QDIFLGLQEL	263	
BpWRKY45	S- SPAPLC	PTVTL	DLTTS. FSSST- LFN	NRLPSSF	ASNP		FPSKLSFSSLESN	ILPTTWGAGYPSYA	424	
BpWRKY48	-	VNSE. TTIP. KQDCAVS		SSAAT		IKQESKEEALS		DLTDNLPSL. -IHLWDLN. F. LSGP	270	
BpWRKY49	-	AAATDMTTQPRSS. . I	LSSWLSMBYLG			PRGGSGSSSGIV. S. SGGGG	GDGAGP. TTRTG		318	
BpWRKY50	-	GNAA. MLSP. LLASA. GG- P. TFPQA		LFSQLLPT	NNNQAVDPN	YMFYGNLMT	QHPQQQQ	QQLQ	274	
BpWRKY52	TISASAPF	PTVTL	DLTQS. NPLQFQRP	STQFQIPFANP		SAASLLP	QIFGQ. . QNQS	KFSGL. MSQDMDQG	508	
BpWRKY53	-	PISHCYIGFNTI. QPITIPKAT	NPIPNPICQ			LRRLIAASN	IWSPSPKPIKFS	GL. MSQDMDQG	448	
BpWRKY59	-	KIFHILWKPFVGSN	LRSYYRCTINN			CRVKRVER	RLSEDCRMVITTY. GRHN		283	
BpWRKY60									167	
BpWRKY64	-	IKKPKKSTI. QAQAHE. QQTQDAQES.			AYLTGTPVLS	P- LDR	EGIIM. SQGLLE	DVVPMMIRNP	256	

	650	660	670	680	690	700	710	720	
BpWRKY1	---		PLQHFLVQ		QMASSLTRDPNFTAALAAAT	ISGRIL	DL	STTLN	317
BpWRKY2	---		. F. N. VED	NHRN	LAEY. A. . K. S. . . . . VASS.	TQQPKVSKI			300
BpWRKY5	---			K					272
BpWRKY8	---		FAEP	AVD	EWFL	DQLLDNCPL	W	IDKST. VGDDHC	304
BpWRKY10	---								133
BpWRKY11	---		QVIPYDR		NQNMGRQ	SN		YATAAATKAI. A. . S. QS. . . . LTTI. GTGN	443
BpWRKY12	---			FYNMTVL	SSPV	ESDDNGVLVGS	VDHFADDDLM. AFSF		307
BpWRKY13	---		LLATNRI. SPPSL	LDAVSSATAAI. AN. . . . . ASI. DN					437
BpWRKY14	---			NKQAVD	VGQ. QPSM	HTLSAAIAA. . . . . V. TI. GAPARS. DGNGAT			573

BpWRKY15  
 BpWRKY16  
 BpWRKY19  
 BpWRKY20  
 BpWRKY21  
 BpWRKY22  
 BpWRKY25  
 BpWRKY26  
 BpWRKY27  
 BpWRKY28  
 BpWRKY29  
 BpWRKY30  
 BpWRKY31  
 BpWRKY32  
 BpWRKY33  
 BpWRKY35  
 BpWRKY37  
 BpWRKY39  
 BpWRKY40  
 BpWRKY42  
 BpWRKY43  
 BpWRKY44  
 BpWRKY45  
 BpWRKY48  
 BpWRKY49  
 BpWRKY50  
 BpWRKY52  
 BpWRKY53  
 BpWRKY59  
 BpWRKY60  
 BpWRKY64

---TGSA. TRDHCLIQDIVP. HMLKEE  
 ---L. LDEEPLCYSQLMNFSTPFSEED. FDE. EELPTSSST. FMRSNFSDERI  
 ---SYGLGYNVQTSESDLTDIVSAPT. V. NS. ILNLDFS LDKVDH. DPNFPFD. NPDFFY  
 ---FAGP---AAG. CFPDHFPA TFAL. WV. NN. G  
 ---PNNTFNSSSCSYSRSPPTSPSSLSWCTSYS. TCFD. GI  
 ---TSNC AQSSDQDFFADLGEIEADPLDLLFTQ. FSGDDDHHDQEKD. SKALMDPF  
 CSVVFRWRG---TRSRDL. TRVFGPHYPPLRLSTVKVVPFLSFV. CETANMVVEQLVKSLTPLIFF  
 HHASSHP---PLQQPQQQ. QPSLA. DTVSAATAAT. A. . . . . SI. SGAHP. ---NNT  
 ---MLPTLFPAEKDRHRSMDVMVSAAT. H. . . . . A. SIMRA. QSNSHGGHDT  
 ---QFPSNEGLLGDIVPPNM. NR  
 NSNTSTTGNQPFQEHL YQANYMNNQNNGFHHQQPALEENIVAATKAIASN. K. QSV. . . . LTSYVG. RENQGVGDQIS  
 ---NLFPSPRRVDEENKSLAENVTAMAS. K. RV. V. . . . TSLMNKE. SHTGPHVGT  
 ---YSSPGGESGDNFSDGGRANS GSSWPPCGSS. AIATTCAAMNGC  
 VPFNKTN---ASSMNLFSYLEKT. HQASSQ. S. ---LTESLTKAAT. . . . QS. I. T. SIVGGGA. HDSQGGGEP  
 ---IGSDNGDVVSTMYSCDTASLSLELDIDFDGDF. EFL  
 ---KEVEFPVVDLADA. FN. GSSSS. ISMDFLFHP. EDKWETGDKQN  
 ---. PHDYGLLQDLVPPFSNKRQP  
 ---QGQQLG. QNSLS. DTVSAATAAIAA. . . . . TSI. GSGAHT. NICGNA  
 ---QGQQLG. QNSLS. DTVSAATAAIAA. . . . . TSI. GSGAHT. NICGNA  
 ---HSPCDD. NSSBHECFTSF  
 ---PNNTFNS. SCSYSRSPPTSPSSLSWCTSYSTTCFD. GI

322  
 256  
 167  
 138  
 173  
 182  
 335  
 185  
 337  
 243  
 290  
 435  
 156  
 318  
 564  
 432  
 299  
 496  
 178  
 458  
 174  
 307  
 494  
 307  
 362  
 295  
 562  
 502  
 301  
 167  
 293

BpWRKY59	-----	301
BpWRKY60	-----	167
BpWRKY64	-----	293

	...	
BpWRKY1	---	317
BpWRKY2	---	300
BpWRKY5	---	272
BpWRKY8	---	304
BpWRKY10	---	133
BpWRKY11	KEF	494
BpWRKY12	---	307
BpWRKY13	---	451
BpWRKY14	---	594
BpWRKY15	---	322
BpWRKY16	---	261
BpWRKY19	---	167
BpWRKY20	---	138
BpWRKY21	---	173
BpWRKY22	---	182
BpWRKY25	---	335
BpWRKY26	---	185
BpWRKY27	---	337
BpWRKY28	---	243
BpWRKY29	---	290
BpWRKY30	---	445
BpWRKY31	---	156
BpWRKY32	---	367
BpWRKY33	---	581
BpWRKY35	---	452
BpWRKY37	---	299
BpWRKY39	L--	576
BpWRKY40	---	178
BpWRKY42	---	491
BpWRKY43	---	174
BpWRKY44	---	307
BpWRKY45	---	556
BpWRKY48	---	307
BpWRKY49	---	362
BpWRKY50	---	295
BpWRKY52	---	583
BpWRKY53	---	523
BpWRKY59	---	301
BpWRKY60	---	167
BpWRKY64	---	293