

BnWRKY4N	1	NVDKPAD	DGYNWRKYGQKOVKGSSEFP	----	RSYYKCTNPG--	CPVKKKVER-	SLDG-QVTEIIVYKGOHNHEFP
BnWRKY3N	1	NADKPAD	DGYNWRKYGQKOVKGSDFP	----	RSYYKCTHPA--	CPVKKKVER-	SDQG-QVTEIIVYKGOHSHEFP
BnWRKY20N	1	APAVLADD	DGYNWRKYGQKOVKGSSEFP	----	RSYYKCTHPN--	CEVKKLFER-	SYDG-QITDIIIVYKGTHTDHPKP
BnWRKY2N	1	VGGAPAE	DGYNWRKYGQKLVKGSSEYP	----	RSYYKCTNPN--	CPVKKKVER-	SREG-HITEIIVYKGAHNHNSKP
BnWRKY33N	1	REQRKGE	DGYNWRKYGQKOVKGSSENP	----	RSYYKCTFPS--	CPTKKKVER-	SLEG-QITEIIVYKGS SHNHHPKP
BnWRKY26N	1	SGNKTSE	DGYNWRKYGQKOVKGSSENP	----	RSYFRCTYPN--	CLTKKKVET-	SLVKGHVTEIIVYKGS SHNHHPKP
BnWRKY25N	1	MVSRNSN	DGYGWRKYGQKOVKGSSENP	----	RSYFKCTYPN--	CVSKKIVET-	TSDG-QITEIIVYKGS SHNHHPKP
BnWRKY44N	1	AGDRSSV	DGYNWRKYGQKOVKGSDCP	----	RSYYKCTHPK--	CPVKKKVER-	SMGG-LVSEIIVYKGOEHNHNSKP
BnWRKY1N	1	IREKVMED	DGYNWRKYGQKLVKGNEFV	----	RSYYRCTHPN--	CKAKKQLER-	SPGG-QIVDTVYFGEDHHPKP
BnWRKY32N	1	VLRTPAH	DGYHWRKYGQKOVKSPKGS	----	RSYYRCTYSD--	CCAKKIECS-	NDSG-NVIEIIVNKGS SHSHEFP
BnWRKY6	1	SEAMISD	GQWRKYGQKMAKGNPCP	----	RAYYRCTMAT--	GCPVRKQVORCAED-	RSILITTYEGGNHNHPLP
BnWRKY31	1	--ATMITD	GQWRKYGQKMAKGNPCP	----	RAYYRCTMAG--	GCPVRKQVORCAED-	RSILITTYEGGNHNHPLP
BnWRKY42	1	SEAPTLS	DGCHWRKYGQKMAKGNPCP	----	RAYYRCTMAV--	GCPVRKQVORCAEE-	RSILITTYEGGNHNHPLP
BnWRKY72	1	CDTPTMD	GQWRKYGQKIAKGNPCP	----	RAYYRCTVAP--	GCPVRKQVORCADD-	MSILITTYEGGTHSHPLP
BnWRKY36	1	CEDPSIND	GQWRKYGQKIAKANLPL	----	RAYYRCSSMS--	NCPVRKQVORCGEDD	TSAYMTTYEGGTHDHPKP
BnWRKY18	1	DTSLTVK	DGYQWRKYGQKVTRDNPSP	----	RAYYRCSFAP--	SCPVRKKVORS	SAED-PSILVATYEGGTHNHLGP
BnWRKY40	1	DTTLVVK	DGYQWRKYGQKVTRDNPSP	----	RAYYKACAP--	SCSVKKVORSVED-	QSVLVATYEGGHNHMPMP
BnWRKY11	1	KIADIPP	DEFSWRKYGQKIKGSPHP	----	RGYYKCSSTR--	GCPARKEVERALDD-	PAMLIVTYEGGHHHKS
BnWRKY17	1	KIADIPAE	DEYSWRKYGQKIKGSPHP	----	RGYYKCSSTR--	GCPARKEVERALDD-	PTMLIVTYEGGHRHQKS
BnWRKY74	1	KIADIPP	DEYSWRKYGQKIKGSPHP	----	RGYYKCSSVR--	GCPARKEVERCVDE-	TSMLIVTYEGGHNHARI
BnWRKY39	1	KIADIPP	DEYSWRKYGQKIKGSPHP	----	RGYYKCSSVR--	GCPARKEVERCVDE-	TSMLIVTYEGGHNHARI
BnWRKY7	1	KMADIPS	DEFSWRKYGQKIKGSPHP	----	RGYYKCSSMR--	GCPARKEVERAPDD-	AMMLIVTYEGGHNHMAV
BnWRKY15	1	KMSDVPP	DDYSWRKYGQKIKGSPHP	----	RGYYKCSSVR--	GCPARKEVERAADD-	SSMLIVTYEGGHNHSLP
BnWRKY21	1	KVADIPP	DDYSWRKYGQKIKGSPYP	----	RGYYKCSSMR--	GCPARKEVERCVED-	PAMLIVTYEABSHSPKL
BnWRKY27	1	TQENLSS	DMWAWRKYGQKIKGSPYP	----	RMYYRCSSSK--	GCLARKOVERSNLD-	PNIFIVTYTGEHTHPRP
BnWRKY29	1	KEENLLS	DAWAWRKYGQKIKGSPYP	----	RSYYRCSSSK--	GCLARKOVERNPQN-	PEKFTITYTAEHNHPLP
BnWRKY22	1	AAEALND	DVWAWRKYGQKIKGSPYP	----	RGYYRCSTSK--	GCLARKOVERNRSD-	PTMFIVTYTAEHNHAP
BnWRKY35	1	SGEVVPS	DLWAWRKYGQKIKGLPYP	----	RGYYRCSSSK--	GCPARKOVERSRTD-	PNMLIVTYTSEHNHPWP
BnWRKY65	1	GDTTPPS	DSWAWRKYGQKIKGSPYP	----	RGYYRCSSSK--	GCPARKOVERSRDD-	PTMIITYTSEHNHPWP
BnWRKY69	1	GEVYPPS	DSWAWRKYGQKIKGSPYP	----	RGYYRCSSSK--	GCPARKOVERSRVD-	PSKMLITYACDHNHPFP
BnWRKY8	1	TEVDHLE	DGYRWRKYGQKAVKNSPYP	----	RSYYRCTTQ--	KCNVKKRVERSYQD-	PTVVITYEYGOHDHPIP
BnWRKY28	1	SEVDHLE	DGYRWRKYGQKAVKNSPYP	----	RSYYRCTTQ--	KCNVKKRVERSYQD-	PTVVITYEYGOHDHPIP
BnWRKY24	1	SDDVDLD	DGYRWRKYGQKSVKNNGHP	----	RSYYRCTYH--	TCNVKKQVORLAKD-	PKIIVTYEYGOHNPCE
BnWRKY56	1	-DDVDLD	DGYRWRKYGQKSVKNNAHP	----	RSYYRCTYH--	TCNVKKQVORLAKD-	PKVVVITYEGVHNHPCE
BnWRKY75	1	SQVDILD	DGYRWRKYGQKAVKNNTFP	----	RSYYRCTYA--	GCVNKKQVORLTS	D-GEVVITYEYGVHSHAIE
BnWRKY45	1	SQVDILD	DGYRWRKYGQKAVKNNTFP	----	RSYYKCTEK--	GCRVKKQVORLSDG	EGVVVITYEGVHTHPVD
BnWRKY50	1	SDVEVLD	DGFKWRKYGKMKVNSPYP	----	RMYYKCAAD--	ACPVRKVERD	KDD-PSFVITYEGSHNHSSM
BnWRKY20C	1	SEVDILD	DGYRWRKYGQKVKGNNP	----	RSYYKCTAP--	GCPVRKEVERASHD-	PKAVITYEGGKHNHDP
BnWRKY2C	1	SDVDILD	DGYRWRKYGQKVKGNNP	----	RSYYKCTAP--	GCTVRKEVERASHD-	LKSVITYEGGKHNHDP
BnWRKY33C	1	SDIDILD	DGYRWRKYGQKVKGNNP	----	RSYYKCTTI--	GCPVRKEVERASQD-	LRAVITYEGGKHNHDP
BnWRKY26C	1	SDIDILD	DGYRWRKYGQKVKGNNP	RF	RSYYKCTFT--	GCCVRKOVERAFHD-	AKSVITYEGGKHNHDP
BnWRKY34C	1	TDVDILD	DGYRWRKYGQKVKGNNP	RF	RSYYKCTAT--	GCLVRKEVERASDD-	LTSVLITYEGGKHNHDP
BnWRKY4C	1	SEVDLLD	DGYRWRKYGQKVKGNNP	RF	RSYYKCTTQ--	GCGVRKEVERAATD-	PKAVVITYEGGKHNHDP
BnWRKY3C	1	SEVDLLD	DGYRWRKYGQKVKGNNP	RF	RSYYKCTTP--	GCGVRKEVERAAND-	PKAVVITYEGGKHNHDP
BnWRKY25C	1	SEIDVLD	DGYRWRKYGQKVKGNTNP	RF	RSYYKCTYQ--	GCGVRKOVERAS	AEAD-ERAVLITYEGGHNHDP
BnWRKY44C	1	VESDSLE	DGYRWRKYGQKVKGNAHP	RF	RSYYRCTSA--	NCRARKEVERASDD-	PRAFITYEGGKHNHHLN
B							

BnWRKY4N	1	NVDKPADDGYNWRKYGQKQVKGSSEFP	-----RSYYKCTNPG--	CPVKKKVER-SLDG-QVTEIIYKGOHNHEPP
BnWRKY3N	1	NADKPADDGYNWRKYGQKQVKGSDFP	-----RSYYKCTHPA--	CPVKKKVER-SQDG-QVTEIIYKGOHSHEPP
BnWRKY20N	1	APAVLADDGYNWRKYGQKHVKGSEFP	-----RSYYKCTHPN--	CEVKKLFER-SYDG-QITDIIYKGTHDHPKP
BnWRKY2N	1	VGGAPADDGYNWRKYGQKLVKGSEYP	-----RSYYKCTNPN--	CPVKKKVER-SREG-HITEIIYKGAHNHSPK
BnWRKY33N	1	REQRKGEDGYNWRKYGQKQVKGSENP	-----RSYYKCTFPS--	CPTKKKVER-SLEG-QITEIVYKGSNNHHPKP
BnWRKY26N	1	SGNKTSDDGYNWRKYGQKQVKGSNP	-----RSYFRCTYPN--	CLTKKKVET-SLVKGHVTEIVYKGSNNHHPKP
BnWRKY25N	1	MVSRNSNDGYWRKYGQKQVKGSNP	-----RSYFKCTYPN--	CVSKKIVET-TSDG-QITEIIYKGGNNHHPKP
BnWRKY44N	1	AGDRSSVDGYNWRKYGQKQVKGSDCP	-----RSYYKCTHPK--	CPVKKKVER-SMGG-LVSEIVYQCEHNHSPK
BnWRKY1N	1	IREKVMEDGYNWRKYGQKLVKGNEFV	-----RSYYRCTHPN--	CKAKKQLER-SPGG-QIVDTVYFGEHDHPKP
BnWRKY32N	1	VLRTPAHDGYHWRKYGQKQVKSPKGS	-----RSYYRCTYSD--	CCAKKIECS-NDSG-NVIEIVNKGSHSHEPL
BnWRKY6	1	SEASMTSDGQWRKYGQKMAKGNPCP	-----RAYYRCTMAT--	GCPVRKQVORCAED-RSILITTYEGNNHHPLP
BnWRKY31	1	--ATMTDGDGQWRKYGQKMAKGNPCP	-----RAYYRCTMAG--	GCPVRKQVORCAED-RSILITTYEGNNHHPLP
BnWRKY42	1	SEAPTLSDGCHWRKYGQKMAKGNPCP	-----RAYFRCTMAV--	GCPVRKQVORCAEE-RSILITTYEGNNHHPLP
BnWRKY72	1	CDTPTMNDGQWRKYGQKIAKGNPCP	-----RAYYRCTVAP--	GCPVRKQVORCADD-MSILITTYEGTHSHPLP
BnWRKY36	1	CEDPSLNDGQWRKYGQKTAKANPLP	-----RAYYRCSMSS--	NCPVRKQVORCGEDTSAYMTTYEGTHDHPLP
BnWRKY18	1	DTSLTVKDGQWRKYGQKVTRDNPSP	-----RAYFRCTMAV--	SCPVRKKVORSAED-PSILVATYEGTHHGLGP
BnWRKY40	1	DTTLVVKDGQWRKYGQKVTRDNPSP	-----RAYFKCACAP--	SCSVKKKVORSVED-QSVLVATYEGEHNHPMP
BnWRKY11	1	KIADIPPEFSWRKYGQKPIKGSPPH	-----RGYYKCTSTFR--	GCPARKHVERALDD-PAMLIVTYEGEHHHKQS
BnWRKY17	1	KIADIPADEYSWRKYGQKPIKGSPPH	-----RGYYKCTSTFR--	GCPARKHVERALDD-PTMLIVTYEGEHRHKS
BnWRKY74	1	KIADIPPEYSWRKYGQKPIKGSPPH	-----RGYYKCSSVR--	GCPARKHVERCVDE-TSMLIVTYEGEHNHARI
BnWRKY39	1	KIADIPPEYSWRKYGQKPIKGSPPH	-----RGYYKCSSVR--	GCPARKHVERCVDE-TSMLIVTYEGEHNHARI
BnWRKY7	1	KMADIPSEFSWRKYGQKPIKGSPPH	-----RGYYKCSSMR--	GCPARKHVERAPDD-AMMLIVTYEGDHNHAMP
BnWRKY15	1	KMSDVPPDDYSWRKYGQKPIKGSPPH	-----RGYYKCSSVR--	GCPARKHVERAADD-SSMLIVTYEGDHNHSL
BnWRKY21	1	KVADIPDDYSWRKYGQKPIKGSPPH	-----RGYYKCSSMR--	GCPARKHVERCVDE-PAMLIVTYEAEHSHPKL
BnWRKY27	1	TQENLSSDMAWRKYGQKPIKGSPPH	-----RNYYRCSSSK--	GCLARKOVERSNLD-PNIFIVTYTGEHTHPRP
BnWRKY29	1	KEENLSDAWRKYGQKPIKGSPPH	-----RSYYRCSSSK--	GCLARKOVERNPQN-PEKFTITYTNEHNHELP
BnWRKY22	1	AAEALNNDVWAWRKYGQKPIKGSPPH	-----RGYYRCSSTK--	GCLARKOVERNRSD-PTMFIVTYTAEHNHPAP
BnWRKY35	1	SGEVVPSDLWAWRKYGQKPIKGLPPH	-----RGYYRCSSSK--	GCPARKOVERSRD-PNMLIVTYTSEHNHPWP
BnWRKY65	1	GDTTPPSDSWAWRKYGQKPIKGSPPH	-----RGYYRCSSTK--	GCPARKOVERSRD-PTMIITYTSEHNHPWP
BnWRKY69	1	GEVYPPSDSWAWRKYGQKPIKGSPPH	-----RGYYRCSSSK--	GCPARKOVERSRD-PSKLMIITYACDHNHPFP
BnWRKY8	1	TEVDHLEDGYRWRKYGQKAVKNSPPH	-----RSYYRCTTQ--	KCNVKKKVERSYQD-PTVVITYYESQHDHPIC
BnWRKY28	1	SEVDHLEDGYRWRKYGQKAVKNSPPH	-----RSYYRCTTQ--	KCNVKKKVERSFQD-PTVVITYEGQHNHPIC
BnWRKY24	1	SDDDVLDDGYRWRKYGQKSVKNNGHP	-----RSYYRCTYH--	TCNVKKQVORLAKD-PKIIIVTYEGIHNNHPC
BnWRKY56	1	DDDDVLDDGYRWRKYGQKSVKNNAHP	-----RSYYRCTYH--	TCNVKKQVORLAKD-PKVVVITYEGVHNNHCE
BnWRKY75	1	SQVDILDDGYRWRKYGQKAVKNTFP	-----RSYYRCTYA--	GCVNKKQVORLTSQ-QEVVVITYEGVHSHAIE
BnWRKY45	1	SQVDILDDGYRWRKYGQKAVKNNFP	-----RSYYKCTEK--	GCRVKKQVORLSGD-EGVVVITYQGVHHPVD
BnWRKY50	1	SDVEVLDDGFKWRKYGKMKVKNSPH	-----RNYYKCAAD--	ACPVRKKVERDKDD-PSFVITYEGSHNHSSM
BnWRKY20C	1	SEVDILDDGYRWRKYGQKVVRGNPNP	-----RSYYKCTAP--	GCPVRKHVERASHD-PKAVITYEGKHNHDVP
BnWRKY2C	1	SDVDILDDGYRWRKYGQKVVRGNPNP	-----RSYYKCTAP--	GCTVRKHVERASHD-LKSVITYEGKHNHDVP
BnWRKY33C	1	SDIDILDDGYRWRKYGQKVVRGNPNP	-----RSYYKCTTI--	GCPVRKHVERASQD-LRAVITYEGKHNHDVP
BnWRKY26C	1	SDIDILDDGYRWRKYGQKVVRGNPNP	-----RSYYKCTFT--	GCCVRKQVERAFHD-AKSVITYEGKHNHQIP
BnWRKY34C	1	TDVDILEDGYRWRKYGQKVVRGNPNP	-----RSYYKCTAT--	GCTVTKHVERASDD-LTSVLITYIGKHTHEVP
BnWRKY4C	1	SEVDLLDDGYRWRKYGQKVVRGNPNP	-----RSYYKCTTQ--	GCGVRKHVERAATD-PKAVVITYEGKHNHDLP
BnWRKY3C	1	SEVDLLDDGFRWRKYGQKVVRGNPNP	-----RSYYKCTTP--	GCGVRKHVERAAND-PKAVVITYEGKHNHDVP
BnWRKY25C	1	SEIDVLIDGFRWRKYGQKVVRGNTNP	-----RSYYKCTYQ--	GCGVRKOVERSAED-ERAVLITYEGRHNDVP
BnWRKY44C	1	VESDSLDDGFRWRKYGQKVVRGNAHP	-----RSYYRCTSA--	NCRARKHVERASDD-PRAFITYEGKHNHHLN
BnWRKY1C	1	TLFDIVNDGYRWRKYGQKSVKGSFP	-----RSYYRCSSS--	GCPVRKHVERSSRD-TKMLIMTYEGNHDHDMF
BnWRKY10	1	-----C	-----RSYYKCTYT--	ACDVKKHVERGAED-VKFLLVITYDGIHEHDP
BnWRKY32C	1	GDVGISGDGYRWRKYGQKMKVGNPNP	-----RNYYRCTSA--	GCPVRKHVETSGEN-KTAVVITYKGVHNDMP
BnWRKY53	1	GLEGPDVYSWRKYGQKDIIGAKFP	-----RSYYRCTHRSTQ	NCWATKQVORSDD-PTVFELTYRGTHTCRQG
BnWRKY70	1	VESTVLDDAFSWRKYGQKEILNAIFP	-----RSYFRCTHKFTQ	GCKATKQVOKLEPE-SKMFNITYIGNHTCNTK
BnWRKY46	1	QEGTPLDDGHCWRKYGQKDIHGSKNP	-----RGYYRCTHFRFT	GCLVVKQVOKSDIN-PMCIEVKVESHSTCDIT
BnWRKY51	1	SKIDVMDGDKWRKYGRKSGKNSNK	-----REYYQLNER--	LTGEKKVRDGED-ATYVITYTYDGGHNHESA
consensus	1	lm dgy wrkygqk vkg p p	RsYkCt	gc vrkkver d vviityeg Hnh p