

1						
Thaliana	MSAKLLYNLS	DENPNLNKQI	GCMNGIFQVF	YRQHYPARRV	TGDELKSLPS	GKASDNVGD
Brassica_rapa	MSAKLLYNLS	DENPNLNKQF	GCMNGIFQVF	YRQHYPARRV	SVAGDELKSL	PSGKTSNDVG
Shortpod_mustard	MSAKLLYNLS	DENPNLNKQF	GCMNGIFQVF	YRQHYPARRV	SVAGDELKSL	PSGKTSNDVG
False_Flux	MSAKLLYNLS	DENPNLNKQI	GCMNGIFQVF	YRQHYPARRV	AVTGDELKSL	PSGKTSNDVG
Radish	MSAKLLYNLS	DENPNLNKQF	GCMNGIFQVF	YRQHYPARRV	VVAGDEVKSM	PSGKTTENVG
Suecica	MSAKLLYNLS	DENPNLNKQI	GCMNGIFQVF	YRQHYPARRV	TVAGDELKSL	PSGKTSNDVG
Pennycress	MSAKLLYNLS	DENPNLNKQI	GCMNGIFQVF	YRQHYPARRV	TVAGDELKSL	PSGKTSNDVG
Saltwater_Cress	MSAKLLYNLS	DENPNLNKQF	GCMNGIFQVF	YRQHYPARRV	AGAGDELKSL	PSCKASDSVG
White_Mustard	MSAKLLYNLS	DENPNLNKQF	GCMNGIFQVF	YRQHYPARRV	VVAGDELKSR	PSEKTTENVG
Arenosa	MSAKLLYNLS	DENPNLNKQI	GCMNGIFQVF	YRQHYPARRV	TVAGDELKSL	PSGKTSNDVG
Halleri	MSAKLLYNLS	DENPNLNKQI	GCMNGIFQVF	YRQHYPARRV	TVAGDELKSL	PSGKTSNDVG
Arabis	MNGIFHVFYR	QHYPARRVAV	AGDELKSLPS	GKTGDNVGD	NISTDKKETE	KSRKNKAAKE
Grape_Vine	MSAKLLHTLS	DENPDLOKQI	GCMNGIFQLF	DRHHFLGRR	INGHTRKRLP	PGQGMEPNNA
Bittercress	MSAKLLYNLS	EENPNLNKQI	GCMNGIFQVF	YRQHYPARRV	AVVGYELKSL	PSGKTSNDVG

61						
Thaliana	NISADKKETE	KSKKKKTAK	KQGVSSSESS	SRLSFSSSPC	SSSFSSADIS	TTASQFEQPG
Brassica_rapa	VTNGSTDKE	TEKSKKKKAA	KEKQKVVSSE	SSSRLSFSSS	PCSSSFSSAD	ISTTTTSQFEQ
Shortpod_mustard	VTNVLTDNKE	KEKSKKKKAA	KEKQKVVSSE	SSSRLSFSSS	PCSSSFSSAD	ISTTTTSQFEQ
False_Flux	DINISTDNKE	TEKSKKKKAA	AKEKHKGVSSE	ESSSRLSFSS	SPCSSSFSSA	DISTTASQFE
Radish	DTNVTTDNKE	TEKSKKKKKK	VAKEKQVVSS	ESSSRLSFSS	SSQCSSSFSS	ADISTTTTSQF
Suecica	DTNISTDKKE	TEKSKKKKTA	KEKQGVSSSE	SSSRLSFSSS	PCSSSFSSAD	ISTTASQFEQ
Pennycress	DTNISTENKE	TEKSRKKKAA	KEKQVVSSSE	ESSSRLSFSS	SPCSSSFSSA	DISTTTSQFE
Saltwater_Cress	DTNISTDSKE	TEKSKKKKKA	AKEKQGVSSSE	ESSSRLSFSS	SPCSSSFSSA	DISTTTSQFE
White_Mustard	DTNVATDNKE	TEKSKKKKKK	AAKEKQVVSS	ESSSRLSFSS	SSPCSSSFSS	ADISTTTTSQF
Arenosa	DTNISTDKKE	TEKSKKKKTA	KEKQGVSSSE	SSSRLSFSSS	PCSSSFSSAD	ISTTASQFEQ
Halleri	DTNISRDKE	TEKSKKKKAA	KEKQGVSSSE	SSSRLSFSSS	PCSSSFSSAD	ISTTASQFEQ
Arabis	KQGVSSSESS	SRLSFSSSPC	SSSFSSADIS	TTTTSQFEQPG	LVQTNNGENP	VREPINGSR
Grape_Vine	PHKAKDKNPK	KFVKEKQRI	TESSRTSFSS	SSCSSTFSSV	DCNRTAQTES	FSHSQTGFNP
Bittercress	DTNISTVSKK	KKKAAKEKQ	GVSSSESSARL	SFSSSPCSSS	FSSADISTTA	SQFEQSGLIQ

121						
Thaliana	LSNGENPVRE	PTNGSPRWGG	LMPSPDIREL	VRSSIHKETR	TRDEEALSQQ	PKSARANVSL
Brassica_rapa	PMSNGETPAR	EPTYGSPRWG	GLVMSSDLRE	LVRSSIHKET	RTRVEEALS	QQPKSARANV
Shortpod_mustard	PGLVQTSNGE	TPVRELTPNG	SPRWGGGLMM	SSDLRELVR	SIHKETRTRN	EEEALSQQPK
False_Flux	QPCLIQTNMG	ENSAREPTYG	SPRWGGGLVMP	SDLRELVRSS	IKHETRSRDE	EALSQQPKSA
Radish	EQPGLMQTSN	GENPIRLSSG	LRELVRNSIH	KETRARDEEE	AVSQQQPKSA	KSNVSLLNES
Suecica	SGLIQTSNSE	NPVREPTNGS	PRWGGLMMP	DLRELVKSSI	HKETRTRDEE	ALSQQPKSAR
Pennycress	QPSNGENPVR	EPTNGSPRWG	GLMMSTDIRE	LVRTSIHKET	RTRDDEETLT	QQPKSARANV
Saltwater_Cress	QPGLIQTNNG	ENPVREPTYG	SPRLGGLMMP	SDLRELVRSS	IKHETRTRDE	EENLSQQPKS
White_Mustard	EQPGLMQTSN	VENPVRGGLM	MSSDLRELVR	NSIHKESRAR	DDEEEDLSQQ	PKSARAKVSL
Arenosa	SGLIQTSNGE	NPVREPTNGS	PRWGGLMMP	DLRELVKSSI	HKETRTRDEE	ALSQQPKSAR
Halleri	SGLIQTSNGE	NPVREPTNGS	PRWGGLTMP	DLRELVKSSI	HKETRTRDEE	EALSQQPKSA
Arabis	WGGLMMPDL	REFVRSIIHK	ETRTRDEEGL	SQQQPKSTRA	NVSLLEKESP	SRNSNEWNEG
Grape_Vine	TPSRDLPMTO	PDASPRLGRO	SLDLRDIVKD	SIYREACGPM	RLSKEPIKVP	VLDESLRTFG
Bittercress	TSNGENSVRE	STNVSPRWGG	KMMPSDMREL	VKSSIHKETG	TRDEDALSQQ	PKPARANVSL

181						
Thaliana	LKESSPSRNS	NEWSEGRVV	KLKDSPRFSY	DERETRKTGA	KLKETPRLSL	DSRSNSFRSA
Brassica_rapa	SLLKELSPSR	SSNEWSEGRV	VVKLKDSPRF	SYDEREARKT	GAKFKETPRL	SLDSRSNSFR
Shortpod_mustard	SARANVSLLR	EPSPSRSSNE	WSEGRIVKL	KDSPRFSYDE	RESRKTGAKF	KETPRLSLDS
False_Flux	RANVSLLKES	SPSRNSNEWS	EGRRVVKLKD	SPRFSYDERE	TRKTVPKLKE	TPRLSLDSRS
Radish	SPSRNSNEWS	EGRRVVKLKD	SPRFSYDERA	ERKTGAKFKE	TPRLSLDSRS	NSFRSARSSS
Suecica	ANVSLLKES	PSRNSNEWSE	GRRVVKLKDS	PRFSYDERET	RKTGAKLKET	PRLSLDSRSN
Pennycress	PLPKESSPSR	NSNEWSQGR	VVKLKDSPRF	SYDERETRKT	GAKLKETPRL	SLDSRSTFSR
Saltwater_Cress	ARANVSLIKE	SSPSRNSNEW	SEGRVVKLKL	DSPRFSYDER	EARKTGAKLK	ETPRLSLDSR
White_Mustard	LKESSPSRNS	NEWSEGRVV	KLKDSPRFSY	DERETRKTGA	KFKETPRLSL	DSRSNSFRSA
Arenosa	ANVSLLKES	PSRNSNEWNE	GRRVVKLKDS	PRFSYDERET	RKTGAKLKET	PRLSLDSRSN
Halleri	RANVSLLKES	SPSRNSNEWS	EGRRVVKLKD	SPRFSYDERE	TRKTGAKLKE	TPRLSLDSRS
Arabis	RRVVKLKDSP	RFSYDERETR	KKGTKLKETP	RLSLDSRSNS	FRSARSTCS	EPQELVTGHR
Grape_Vine	KLGGPPRNS	ERKDGSLVLT	PRDAPRFSYD	GRESRDFTKS	AIKLDLPRL	SLDSRESSMR
Bittercress	LKESSPSRNS	NEWSEGRVV	KLKDSPRFSY	DEREMRKTGA	KLKETPRLSL	DSRSNSFRSA

241

Thaliana	RSSCSPEPQE	LVTGHRRTTS	SVVAKLMGLE	VIPDEPVTIQ	NRENRFCDSP	RPTSRVEVDL
Brassica_rapa	SAKSSCSPEP	QELVTGHRRT	TSSVIAKLMG	LDVVSDEPVT	DQSRENHFCD	SPRPAPRVEA
Shortpod_mustard	RSNSFRSAKS	SCSPEPQDFV	TTGHRRTTSS	VVAKLMGLDV	ILDEPVADQS	RENHFCDSPR
False_Flux	NSFRSAKSSC	SPEPQEVVTG	HRRTTSSVVA	KLMGLEVIPD	EPVAVQDRE	NRFCDSPRPT
Radish	SPEPQELVTG	HRRTTSSVVA	KLMGLEFIPD	ESVTDQVREN	RFCDSPRPTS	RVDADLQRSR
Suecica	SFRSARSSYS	TEPQELVTGH	RRTTSSVVAK	LMGLEVIPDE	PVTVHNREN	FCDSPRPASR
Pennycress	SARSSCSPEP	RELVTGHRRT	TSSVVAKLMG	LEGIPDEPVT	DQNREIQNRF	CDSRPRTFRP
Saltwater_Cress	SNSFRSARSS	CSPEPQEFVT	GHRTTSSVV	AKLMGLEVIP	DES VNDQNRG	NQNRFCDSPR
White_Mustard	RSSCSPEPQE	LVTGHRRTTS	SVVAKLMGLE	VIPDESITDQ	NRENRFCDSP	RPTSRVQADL
Arenosa	SFRSARSSCS	PEPQELVTGH	RRTTSSVVAK	LMGLEVIPDE	PVTVHNREN	FCDSPRPASR
Halleri	NSFRSARSSY	STEPQELVTG	HRRTTSSVVA	KLMGLEVIPD	EPVTVHNREN	RFCDSPRPAS
Arabis	RTTSSVVAKL	MGLEVIPDES	VTDQSRNRF	CDSPRPPFRV	EADLQRSRSS	DSIKKFPTKA
Grape_Vine	GSASELKSNY	LPQQEPGSNK	RPSGVVAKLM	GLDAFPDSSI	SSKAAGESKQ	HRI SGSPRNS
Bittercress	RYSCSPEPQE	LVAGHRRTS	SVIAKLMGLE	VIPDESATDQ	NRENRFCDSP	RPTPRVEADL

301

Thaliana	QSRSGFDSIK	KMPAKFPMK	ASPWAQVDGA	KNQVKIPDAT	TLTVYGEIQK	RLSQLEFKKS
Brassica_rapa	DLPRSRGSDS	FKKMMPAAKF	PAKTAPWTQA	DGARNQVKAA	DAAATLTVYG	EIQKRLSQLE
Shortpod_mustard	PPRVEADLQR	SRSSDSFKKM	MSAKFPMKNA	PWTQVDGAKN	QVKAADAAAT	LTVYGEIQKR
False_Flux	SRVDIDLQRS	RSSDSIKTMM	PAKFPMKVAP	WTQVDGAKNQ	VKAADATTLT	VYGEIQKRLS
Radish	SSDPIKKMMP	VKFPMAAVDA	ATTVTVYGEI	QKRLSQLEFK	KSEKDLSALK	QILEAMETTO
Suecica	VEEDLQRSRG	SDSFKKMMTA	TFPMAKASPR	AQVDCAKNOV	KAADATTLTV	YGEIQKRLSQ
Pennycress	EAE LQRSRS	DSAKRMMFPF	MKAAPWSQVD	GAKNOVKAAD	AAATLTVYGE	IQKRLSQLEF
Saltwater_Cress	PTSRAEADLQ	RSRNSDSVKK	MMPAKFPMKA	APWSQVDGAK	TQGIAADAAT	TLTVYGEIQK
White_Mustard	QSRSSDSIK	KMPAKFPVK	AAPWTQVDGA	KNQFKAIDAA	TTVTVYGEIQ	KRLTHLEFKK
Arenosa	VEEDLQRSRG	SDSFKKMMTA	KFPMKASPPA	QVDCAKNOVK	AADATTLTVY	GEIQKRLSQL
Halleri	RVEEDLQRSR	GSDSFKKMMT	AKFPMKASPW	AQVDCAKNOV	KAADATTLTV	YGEIQKRLSQ
Arabis	APWTQVDVTK	NQVKAADAAT	TLTVYGEIQK	RLSQLEFKKS	EKDLRALKQI	LEAMEKTHQL
Grape_Vine	HKDPVSPRLR	NAGSVMKPTS	TSRFPLEPAP	WKQLDGSQGP	QKPTFKHREA	ATKTLNSTPS
Bittercress	QSRSSDSIK	KMMMPAKFPM	KVAPWTQVDG	AKNQAKAADA	TTLTVYGEIQ	KRLSQLEFKK

361

Thaliana	EKDLRALKQI	LEAMEKTOQL	ISKDDDDNKT	LCSSNFMQRN	NQIPSAINT	SSMNFKSSSI
Brassica_rapa	FKKSEKDLRA	LQQILEAMEK	TQQLMSKDDD	NSSLSSNFM	QSPSSKSIR	SSSIVVMKAA
Shortpod_mustard	LSQLEFKKSE	KDLRALQQLL	EAMEKTQQLI	SKDDDNSSL	TSFMQPSPP	KSIRSSSIVV
False_Flux	QLEFKKSEKD	LRALQQILEA	MEKTOHLISK	DDDNKTNFMQ	GTDQPVPSAT	SPSSKNFKAS
Radish	KLINKDDDN	TLSSSTNFMQ	VPSAATTSP	SKSSRSSTV	MNAATASVFK	ETGNYGSASY
Suecica	LEFKKSEKDL	RALQQILEAM	EKTQQLISKD	DDKNL CSTN	FMQRTDQPIP	SATNPPSKNF
Pennycress	NKSEKDL SAL	KQILEAMEKT	QQLVSKDDDD	NNTLRSTSF	KQIPPATTSP	SSKNFRSSSI
Saltwater_Cress	RLSQLEFKKS	EKDLRALKQI	LEAMEKTOQL	ISKDDDNSSL	SSTNFMQRAD	QPIPSATTSP
White_Mustard	SEKDLRALKQ	ILEAMEKTQK	LISKDDDNNT	LRSTNCLQPI	PSAATASGFK	ETGSYGSASF
Arenosa	EFKKSEKDLR	ALKQILEAME	KTOQLISKDD	DNKNL CSTN	MQRTDQPIPS	ATNPPSKNFK
Halleri	LEFKKSEKDL	RALKQILKAM	EKTQQLISKD	DDKNL CSTN	FMQRTDQPIP	SATNPPSKNF
Arabis	TSKDDDNNTL	SSTTFMQRAD	QPIPFATTSP	SSKNFRSSSI	VVMKAATAPV	FKETGNSGSA
Grape_Vine	IYGEIEKRLT	ELEFKKSGKD	LRALKRILEA	MQKTETIEA	KKDHNSNSVS	QTSNRTSSPT
Bittercress	SEKDLRALKQ	ILEAMEKTHQ	LINRDDDDNK	TLSSSTNFMQ	TDNPIPSATS	PSSKNFRSSS

421

Thaliana	VVMKAATAPV	FKDTGIAGSA	SFSPRNVALP	NVKVGNLRQA	QKVIPRKQSA	MDVTPRPGYY
Brassica_rapa	SAPVFKETGS	SSSTSSSPRS	VALPNVIVSN	QKGTTRKQSA	MDVTPRPA TK	NTSTRPLQSK
Shortpod_mustard	MKAATAPVFK	ETGNSSSTSS	SPRTVALPNV	KVSNLRQNKQ	VIPRKQSAM	VTPRPGFYKQ
False_Flux	SIVVMKVAAA	PVFKETGISG	SASFAPRNVA	LANVKVGNLR	QTONVIPRKQ	SAMDVTPRPG
Radish	SPRSVTLPSV	KVSNQQRQSR	VNPKKQSAMD	VTPRPGVYKG	QTDSPTKNTG	SROLLPKNEM
Suecica	KSSSIVVMKA	AAAPVFKETG	ISGSASFSPR	NVALPNVKVG	NLRQTQKVIP	RKQSAMDETS
Pennycress	VVMKAAAAPP	VFKETGSSGS	ASFSPRSVAL	PNVKVGNLRQ	PQKVAPRKQS	AMDVTPRPGF
Saltwater_Cress	SSSKNLRSSS	IIVMKAAEAA	VFKETGNCGS	TSFSPRSVAL	PNVKVANLRQ	TQKVTQRKQS
White_Mustard	SPRSVTL PND	KVTTNLRQSQ	KVTIPRKQSAM	DVTIPRPGVYK	GQTDSPTKNT	GSRQLLSKNE
Arenosa	SSSIVVMKAA	AAPVFKETGI	SGSASFSPRN	VALPNVKVGN	LRQTQKVIPR	RKQSAMDETSR
Halleri	KSSSIVVMKA	AATPVFKETG	ISGSASFSPR	NVALPNVKVG	NLRQTQKVIP	RKQSAMDETS
Arabis	FSPRNVALPN	VKVGNLRQKQ	KVIPRKQSAM	DVTIPRPGFYK	GQTD SATKNT	ITRQLQOKSD
Grape_Vine	SFKSPIVIMK	PAKLIEKSHN	LASSAIPIDG	LSGLPRLQTG	DLVGSRKDSV	DKQTAKDLTP
Bittercress	IIVMKAAATAP	VFKETGISDS	ASFSPKNVAL	PNVKVGNLRQ	TQKAIIPRKQS	AMDVTPRPGF

481

Thaliana	KGOTESTMKN	TSTRPLQSKS	DMAKSGKIQK	PSVSLRTPPK	KLGFQKQSRP	TSPKPELNKN
Brassica_rapa	IEMAKSGKPS	VSPRTQPKKL	GFEKQSRPTS	PKPEPNKNQR	QQLSRQOTES	PSPRRKPGMK
Shortpod_mustard	QTDSPTKNTT	TRPMQSKIEM	AKSGKSQKPS	VSPRTQPKKL	GFEKQSRPTS	PKPEPNKNQR
False_Flux	FYKGQTDSTM	KSASTRPLQS	KNDMAKSGKI	QKPSVSPRTP	PKKLGFQKQS	RPTSPKPEPN
Radish	AKSGKPSVSP	RTQSKKLGLE	KQSRPTSPKP	EQNRIRQKQL	SRQOTESASP	RRKPRSVOQS
Suecica	RPGFYKGQTD	SKMKNSTRL	LQSKSDMARS	GKIQKPSVSP	RTPPKKLGFE	KQSRPTSPKP
Pennycress	YKGQADSATK	NTSTRLLQSK	SDMAKSGKSQ	KPSVSPRTPP	KKLGFQKQSR	PQSPKPEPNK
Saltwater_Cress	GMDVTPRPGF	YKGQTD SATK	NTTTRPLQSK	SDMMRSGKSQ	KPSVSPRTQP	KKLAFEKQSR
White_Mustard	MAKSGKRQKP	SVSPRTQPKK	LGFEKQSRPT	SPKPELNKIQ	RQQLSSQOTE	SASPRRKPGI
Arenosa	PGFYKGQTD	TMKNSTRL	QSKSDMARSG	KLQKPSVSPR	TPPKKLGFQK	QSRPTSPKPE
Halleri	RPGFYKGQTD	STMKNSTRL	LQSKSDMARS	KIQKPSVSPR	TPPKKLGFQK	QSRPTSPKPE
Arabis	MAKSGKSQMP	SVSPRTQPKK	LGFEKQSRPT	SPKREPKNQI	RQQLSRQOTE	SAPRKKTGSG
Grape_Vine	RNKHLEKPESS	QPSRLLDKSS	ADRSSRLTKT	SKVHQKINEN	ETSSSGRNSG	AVSPRLQOKK
Bittercress	YKGQTD SNTT	KNTSTRPLQS	KSDMAKSGKS	QKPSVSPRTP	PKKFGFEKQS	RPTSPKSEPN

541

Thaliana	ORQOLSROOT	ESASPRRKPG	IKSRGLQOSE	DRLSDESSDL	RSLSRSDSNVS	LASNLDTEVT
Brassica_rapa	SRGLQOQSEDR	SSDESSDLRS	LRSDSNVSSA	SNFDIEVTSR	HKCDLTEQHT	PKQRSPELGM
Shortpod_mustard	QOLSROOTES	ASPRRKPPMK	SRGMQOQSEDR	LSDEGSDLRS	LRSDSNLSSA	SNLDTEVTSR
False_Flux	KTOROQLSRQ	QIESASPRRK	QGIKSRGLHQ	SEDRLSDESS	DLRSQRSDSN	VSLASNLDTE
Radish	EDRLSDESSD	WRLSLRSDSNV	SSASNLDSEV	TSRYKYERNS	DFTEQHTPKQ	RSPELGMRS
Suecica	EPNKIQRLS	RQOTESASPR	RKPGIKSRGL	QOSEDRLSDE	SSDLRSLRSD	SNVSLASNLD
Pennycress	IQROQLSRQ	TESASPRRK	GTKTRGLQOS	EDRLSDESSD	LRSLRSDSNV	SLASNVDMDV
Saltwater_Cress	PTSPKPEPNK	IQROQLSRQ	TESASPRRK	GIKSRVQOQS	EDHFSDETS	LRSLRSDSNI
White_Mustard	TSRSMQOQSD	RLSDESSDLR	SLRSDSNVSS	ASNLDSEATS	RYRYERNSD	TEQHTPKQRS
Arenosa	PNKIQRLSR	QOTESASPRR	KPGIKSRGLQ	QSEDRLSDES	SDLRSLRSDS	NVSLASNLD
Halleri	PNKIQRLSR	QOTESASPRR	KPGIKSRGLQ	QSEDRLSEES	SDLRSLRSDS	NVSLASNLD
Arabis	KSRGLQOQSED	RLSDESSDLR	SLRSDSNVSL	ASNLDIEVTS	RYRSENRSDI	TEQYTPKQRS
Grape_Vine	LELDKQSRST	TPSPESSRVR	RQSSRQLTEP	SSPARKLRQR	APNLLQSDDO	LSEISGDSRN
Bittercress	KIQROQLSKQ	QTESASPRRK	QGIKSRALQQ	SEDRLSDESS	DLRSLRSDSN	VSLTSNLDIE

601

Thaliana	SRNYERNSD	ITEQHTPKQR	SPDLGMRSL	KPLKVTVEQP	SPVSVLDVAF	DEDDSPSPVR
Brassica_rapa	RSLPKPLKIT	VEQPSPVSL	DVAFDDDESP	SPVRKISIVF	KDDDHIRSEE	SLWMKKHNNL
Shortpod_mustard	YKCDLTEQHT	PKORSPELGM	RSLPKPLKIT	VEQPSPVSL	DVTFDDDESP	SPVRKINIVF
False_Flux	VTSRYNFERN	SDIIEQHTPK	QKSPELGMRS	LPKPLKVTVE	QPSPVSVLDV	AFDEDDSPSP
Radish	PKPLKVTVEQ	PSPVSVLDVA	FDEDESPSPV	RKISVVFKDD	DHLRSESEW	MNKHRTLRRS
Suecica	TEVTSRYNYE	RNSDITEQHT	PKQSPDLGM	RSLPKPLKVT	VEQPSPVSVL	DVAFDEDESP
Pennycress	TSRYKYERN	DIAEQHTPKQ	RSPDLGMRSL	PKPLKVTVEQ	PSPVSVLDVA	FDEDESPSPV
Saltwater_Cress	SLTSNLDIEG	TSRYKYERN	DITEQHTPKQ	RSPDLGMRSL	PKPLKITVEQ	PSPVSVLDVA
White_Mustard	PEFGMRSLPK	PLKVTVEQPS	PVSVLDVAFD	EDESPSPVRK	ISVVFKDDDH	LRSEESQWMN
Arenosa	EVTSTRYNYER	NSDITEQHTP	KQSPDLGMR	SLPKPLKVTV	EQSPVSVLD	VAFDEDESPS
Halleri	EVTSTRYNYER	NSDITEQHTP	KQSPDLGMR	SLPKPLKVTV	EQSPVSVLD	VAFDEDESPS
Arabis	PDLGMKLLPK	PLKVTVEQPS	PVSVLDVAFD	EDESPSPVRK	ISIVFKDDNL	SSSEEPQWMN
Grape_Vine	LSYQVTSIDR	SGGINSISFQ	HGGQKHKNGD	GTMTKFATAT	QEOPSPVSVL	DAAFYKDDL
Bittercress	VTSRYKYERN	SDIMEQHTPK	QRSELGMRSL	PKPLKLTVEQ	PSPVSVLDVA	FDEDESPSPV

661

Thaliana	KISIVFKEDD	NLSSEESHWM	NKNNNLCRSI	VWPESNTSLK	QPDALTEG	MEDDAEFKNG
Brassica_rapa	CRSIVWPESN	TSLNQPDVAV	TESFMEEGAD	LRNGDRKYIS	EILSASGLLK	DIDYSMLSIQ
Shortpod_mustard	KDDDHIRSEE	SQWMSKHNNL	CRSIVWPESN	TSLNQPDVAV	TESLMEEGAE	LRNGDHKYIS
False_Flux	VRKISIVFKED	DNLSSEESQW	MNKHSSLCRS	IVWPESNASL	KQPDALIEG	FMEEDAEFKN
Radish	IVWPETESNG	SLNQSDAELT	EGIREEGAE	NNGDHKYISE	ILLASGLLRD	IDYSMLSIQL
Suecica	SPVRKISIVF	KEDANLSYEE	SQWMNKHNNL	CRSIVWPESN	ATLQPDALM	EGFMEEAEF
Pennycress	RKISIAFKED	HLSYEEESQW	NKHSNLCRSI	VWPESNASPK	QPDDELIEG	MEEDAKFKNG
Saltwater_Cress	FDEDESPSPV	RKISIVFKED	DNLGSEESQW	MNKQNRNCRS	IVWPENNAK	QPDALPIMGF
White_Mustard	KHRTLRRSIV	WPESNVSILNQ	SDAELNEGIM	EGEAGELNNGD	HKYISEILLA	SLGLRDIIDS
Arenosa	PVRKISIVFK	EDANLSYEE	QWMNKHNSLC	RSIVWPESNA	TLKQPDALM	EGFMEEAEF
Halleri	PVRKISIVFK	EDANLSSEES	QWMNKHNSLC	RSIVWPESNA	TLKQPDALM	DGFMEEDAEF
Arabis	KHSNLCRSIV	WPESNVSILKQ	PDHNEGIM	GVELKNGDHK	YIASEILLAS	LLRDIIDSMM
Grape_Vine	SPVKKISNAF	KDDETLNYDE	MEWATKLENI	ENLVQRIREL	NSTHNEFSVD	LIASLCDKTN
Bittercress	RKISIVFKEE	DNLSSEESQW	MNKQNRNCRS	IVWPESNMSV	KLPDTELIEG	FMEEGAEKLN

721

Thaliana	DHKYISEIML	ASGLLRDIDY	SMISIQHLQA	HLPINPSLFF	VLEQNKTSNV	SLQDNKHKGR
Brassica_rapa	LHQAHLPINP	SLFFVLEQNK	TSNVTHRGGR	FGQQTANLIG	RSRRKLVDFT	VNEILARKFA
Shortpod_mustard	EILSASGLLK	DIDYNNMLSIQ	LHQAHLPINP	SLFFVLEQSK	TGNVRHDNKH	RGRGFGQQQA
False_Flux	GDHXYAAEIL	SAAGLLRDID	YSMISIQHLQ	AHLPINPNLF	FVLEQDNKHK	LVQDNKHKG
Radish	HQAHLPINPS	LFFVLEQSKT	YSMTQHDQSK	RGIGFGQQQT	ANLIERSRRK	LVFDTINEIL
Suecica	KNGDHKYISE	ILLASGLLRD	IDYNNMISIQ	HQAHLPINPS	LFFVLEQSKT	SNVSPQDNKH
Pennycress	DHKYISEILS	ASGLLRDIDY	SMMSIQHLQA	HLPINPTLFF	VLEQSKTSNV	SQHDNKHKGR
Saltwater_Cress	MDEGVEFFKNG	DDKYISEILL	ASGLLRDIDY	SMISIQHLQA	HLPINPSLFF	VLEQNKTSNL
White_Mustard	MLSIQYLAH	LPINPSLFFV	LEQNKTSNAT	QHDKHKHGIG	FGQQTVNLI	RSRRKLVDFT
Arenosa	KNGDHKYISE	ILLASGLLRD	IDYNNMISIQ	HQAHLPINPS	LFFVLEQSKT	SNVSPQDNKH
Halleri	KNGDHKYVSE	ILLASGLLRD	DIDYSMISIQ	LHQAHLPINP	SLFFVLEQNK	TSNVSPQDNK
Arabis	SIQHLQAHL	INPSLFFVLE	QNKTSNVTQ	DNKHNSRGFG	QQQTNNLIDR	IRRKLVFDTI
Grape_Vine	PDHRYISEIL	LASGLLRDCS	GLMITKLHQS	SHPINPKLFL	VLEQNRDVAN	ILNDKYSSQN
Bittercress	GDHEYISEIL	LTSGLLRDID	YSMISIQHLQ	AHLPINPSLF	FVLEQNKTSN	VSLQDNKHKG

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Thaliana	GFGQOQTVNL	VERSKRKLIF	DTINEILARR	FAAEGCTKQP	SITLSISTQR	THEKSSRGEE
Brassica_rapa	AEGCTKQPYI	TSSISPLMKT	DKSSRGKELL	EALCSEIDRL	QDNSNCILDE	DDEDLIWEDL
Shortpod_mustard	ANLIERSRRK	LVFDNVNEIL	ARKFAAEGCT	KQPYITSSIS	QLMTTEKSSR	GKELLESLS
False_Flux	RGFGQOQTAN	LIERSKRKLIV	FDTINEILARR	RFAADGCTKQ	PSIISSISPL	RITEKNRSGK
Radish	ARKFTAEGCT	KQOPYITTSI	SQLRRTNKSS	KGKELLKTM	SEIDRLQDNS	KCILDDEDE
Suecica	KGRGFGQOQT	VNLIERSKRK	LVFDTINEIL	AHRFAAEGCT	KQPSIISSIS	TQIRIPVKSSR
Pennycress	GFGQOQTANL	MERSRRKLIV	DTINEILARR	FAAEGCTKQP	SIVSSISRLR	TTDKSSRGEE
Saltwater_Cress	SLQDDKHKAR	GFGQOQTANL	IDRSRRKLIV	DTINEILARR	FAAEGCTKQP	SMISSIRPLR
White_Mustard	MNEILARKFA	AEGCTKQPYI	TPSISQLRRT	SKSSKGKELL	ETMCSEIDRL	QDNSKCILDE
Arenosa	KGRGFGQOQT	VNLIERSKRK	LVFDTINEIL	AHRFAAEGCT	KQPSIISSIS	TQIRIPVKSSR
Halleri	HKGRGFGQOQT	TVNLIERSKR	KLVDFTINEI	LAHRFAAEGC	TKRPSIISSI	STQIRIPVKSS
Arabis	NEILARRFAA	EGCTKQTSII	SSISPLRTTD	KSSKGKELLQ	ILCSEIDRLQ	DQNSCILED
Grape_Vine	TAQSKLQRL	IFDVVNEILF	QKLAFTHGSE	PCFLPNKIVR	RSQNGQELLR	ELCSEIDQLQ
Bittercress	RGFGMANLIE	RSRRKLVDFT	INEILARRFA	AEGCTKQPSI	ISSISPLRTT	EKSSRGKELL

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Thaliana	LLQTLCS	EID	RLQDNSK	CIL	DEDD	EDLIWE	DLOSHGMNWK	EIEGETPGLV	LDIERLIFKD
Brassica_rapa	QSQGMNWKEI	EGETPGLVLD	IERLIFKDLI	SEVVTSEVAA	FPGNKLSGQP	RQLFHC			
Shortpod_mustard	EIDRLQDNSN	CILDD	EDDED	LIWEDMQSQG	MNWKEIDGET	PGLVLDIERL	IFKDLISEVV		
False_Flax	ELLQTLCS	EI	DRLOQNSKCI	LDD	EDDEDLI	WEDLOSHGMN	WKEIEGETPG	LVL	DIERLIF
Radish	DLFWEDLQSQ	GMNWKEIEGE	TPGLVLDIER	LIFKDLISEV	VTSEVAASPG	MLSGQPIRVF			
Suecica	GKELLQTLCS	EIDRLQDNSK	CILDD	EDDED	LIWEDLQSHG	MNWKEIEGEI	PGLVLDIERL		
Pennycress	LLETLCSEID	RLQDNSK	CIL	DD	EDDEDLIW	EDLOSQGMNW	KEIEGETPGL	VLDIERLIFK	
Saltwater_Cress	TTEKSSRGKE	LLQTLCS	EID	QLQDKAKCIL	DEDD	EDLIWE	DLQSQGMNWK	EIEGETPGLV	
White_Mustard	DD	EDLIWEDL	QGQGMNWKET	EGETPGLVLD	IERLIFKDLI	SEVVTSEVAA	SPGMLS	SGKPR	
Arenosa	GKELLQTLCS	EIDRLQDNSK	CIL	DD	EDDEDL	IWEDLOSHGM	NWKEIEGEIP	GLVLDIERLI	
Halleri	RGKELLQTL	SEIDRLQDNS	KCIL	DD	EDDED	LIWEDLOSHG	MNWKEIEGEI	PGLVLDIERL	
Arabis	DEDLIWEDLQ	SQGMNWKDIE	GETPGLVLDI	ERLIFKDLIS	EVVISELAAI	PGMLS	SGQPRQ		
Grape_Vine	GNNSDCSLEN	EVSWEDIMHR	SANRADFHGE	VSGIALDVER	LIFKDLIGEV	LNGEALSRA			
Bittercress	QTLCS	EIDRL	QDNSK	CILDD	EDDEDLIWED	LQSHGMNWKE	IEGETPGLVL	DIERLIFKDL	

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Thaliana	LIGEVVTSEF	AAFPRMLSGQ	PRQLFHC						
Brassica_rapa									
Shortpod_mustard	TSEVAAFP	PGM	LSGQPRQLFH	C					
False_Flax	KDLISEVVT	S	EVAAFP	PGMLS	GQPRQLFHC				
Radish	NC								
Suecica	IFKDLIGEVV	TSEVAAFP	PGT	LRGQPRQLFH	C				
Pennycress	DLISEVVTSE	AAGMLS	SGKPR	QLFHC					
Saltwater_Cress	LDIERLIFKD	LISEVVTSEV	AAF	PKMLSGQ	PGQLFHS				
White_Mustard	QLFNF								
Arenosa	FKDLIGEVV	SEVAAFP	PGTL	RGQPRQLFHC					
Halleri	IFKDLIGEVV	TSEVAAFP	PGT	LRGQPRQLFH	C				
Arabis	LFHC								
Grape_Vine	RPRGHYRQL	FPK							
Bittercress	ICEVVTSEVA	AFPGMLS	SGQP	RQLFHC					