Supplemental Figure 1. FASTA format multiple alignment of 32 *Arabidopsis* B-box proteins aligned with MUSCLE (Edgar, 2004). B-box B1, B-box B2, and CCT domains are labeled.

AT1G60250					MAQVC	HTC-RHVTAV	IHCVTEALNF
AT1G49130			MTSHQNIK	ISE <mark>K</mark> IMIS <mark>K</mark> Y VDVESRTASV MMKSLAN MMKSLAS	QEDVKQPRAC	ELC-LNKHAV	WYCASDDAFL
AT1G73870			MV	VDVESRTASV	TGEKMAARGC	DACMKRSRAS	WYCPADDAFL
AT1G25440				MMKSTAN	AVGAKTARAC	DSC-VKRRAR	WYCAADDAFL
AT1G68520				MMKSTAS	AVGGKTARAC	DSC-VKRRAR	WYCAADDAFL
AT3G07650				THINKS LIAS	MGYMC	DFC-GEORSM	VYCRSDAACL
					MGIMC		
AT5G48250					MGYMC	DFC-GEQRSM	VYC <mark>R</mark> SDAACL
AT3G21880					MEPKC	D <mark>HC-ATSQ</mark> AL	IYC <mark>K</mark> SDLA <mark>K</mark> L
AT4G15250					MEARC	DFC-GTEKAL	IYC <mark>K</mark> SDSA <mark>K</mark> L
AT2G47890				<mark>ME</mark> A	EEGHQRDRLC	DYC-DSSVAL	VYCKADSAKL
AT1G28050				<u>MEA</u>	-MSSSERVPC	DFC-GERTAV	LFCRADTAKL
AT2G33500				MG	TSTTESVVAC	EFC-GERTAV	LFCRADTAKL
AT1G68190				MT.CT	IIIENMERVC	EFC-KAYRAV	VYCIADTANL
AT3G21150					MVSFC	ELCGAEAD	LHCAADSAFL
AT5G15840				MINORCHDIC	SGENNRARPC	DTC-RSNACT	VYCHADSAYL
				MINOESHDIG			
AT3G02380				MLKEES	NESGTWARAC	DTC-RSAACT	VYCEADSAYL
AT5G15850				ML	KVESNWAQA C	DTC-RSAACT	VYC <mark>R</mark> ADSAYL
AT5G57660			<mark>MG</mark>	FGLESIKSIS	GG <mark>WGAAAR</mark> SC	DAC- <mark>K</mark> SVTAA	VFC <mark>R</mark> VDSAFL
AT2G24790				KHREKKKKRF	MASSSRLC	DSC-KSTAAT	LFCRADAAFL
AT5G24930	MDPTWIDSLT	RSCEANSNTN	HKRKRERETL	KHREKKKKRF	RERKMASKLC	DSC-KSATAA	LYCRPDAAFL
AT4G27310					MGKKC	DLCNGVAR	MYCESDQASL
AT5G54470					MCKKKC	ELCCGVAR	MYCESDOASL
AT3G21890					MC	RGL-NNEESR	RSDGGGCRSL
					MC	RGF-EKEEER	
AT4G15248					MC	والمستجهد	RSDNGGCQRL
AT1G75540					MKIRC	DVC-D <mark>K</mark> EEAS	VFCTADEASL
AT4G39070					MKIWC	AVC-D <mark>K</mark> EEAS	VFCCADE AAL
AT1G06040					MKIQC	DVC-EKAPAT	VICCADE AAL
AT2G31380					MKIQC	DVC-EKAPAT	LICCADEAAL
AT2G21320					MRILC	DAC-ESAAAI	VFCAADEAAL
AT4G38960					MRILC	DAC-ENAAAI	IFCAADEAAL
AT4G10240					METOC	EVC-EKAEAE	VLCCSDEAVL
AT1G78600					MKTOC	NVC-EAAEAT	VLCCADEAAL
AIIG/8000						NVC-EAREAT	ATCCADENAT
	71				B-box B1 		
AT1G60250	CLTCDNLRHH	-NNIHAEHVR	YQL	CD	NCSMYPSILF		CYEDGMV
	CLTCDNLRHH CHVCDESVHS	ANHVAT <mark>K</mark> HER	VCLR	TNEISNDV <mark>R</mark> G	GTTLTSVWHS	G <mark>F</mark> RRK <mark>ART</mark> PR	S <mark>R</mark> YEKKPQQK
AT1G60250	CLTCDNLRHH		YQLR VCLR VRL	CD TNEISNDVRG QSSSPTET			
AT1G60250 AT1G49130	CLTCDNLRHH CHVCDESVHS	ANHVAT <mark>K</mark> HER	VCLR	TNEISNDV <mark>R</mark> G	GTTLTSVWHS	G <mark>F</mark> RRK <mark>ART</mark> PR	S <mark>R</mark> YEKKPQQK
AT1G60250 AT1G49130 AT1G73870	CLTCDNLRHH CHVCDESVHS CQSCDASIHS	ANHVAT <mark>K</mark> HER ANHLA <mark>KR</mark> HER	V <mark>CLR</mark> VRL VRL <mark>K</mark> TASPAV	TNEISNDV <mark>R</mark> G QSSSPTET V <mark>K</mark> HSNHSSAS	GTTLTSVWHS AD <mark>K</mark> TTSVWYE PPHEVATWHH	G <mark>F</mark> RRK <mark>A</mark> RTPR GFRRKARTPR	S <mark>RYEKK</mark> PQQ <mark>K</mark> S <mark>KSCAFEK</mark> LL
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520	CLTCDNLRHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS	ANHVAT <mark>K</mark> HER ANHLAKRHER ANPLARRHER ANPLARRHER	VCLR VRL VRLKTASPAV VRLKS	TNEISNDV <mark>R</mark> G QSSSPTET V <mark>K</mark> HSNHSSAS ASAG <mark>K</mark> YRHAS	GTTLTSVWHS AD <mark>K</mark> TTSVWYE PPHEVATWHH PPHQ-ATWHQ	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPQQK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMV CVEERVS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650	CLTCDNLRHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRSVHS	ANHVATKHER ANHLAKRHER ANPLARRHER ANPLARRHER ANALSKRHSR	VCLR VRL VRLKTASPAV VRLKS TLV	TNEISNDV <mark>R</mark> G QSSSPTET V <mark>K</mark> HSNHSSAS ASAG <mark>K</mark> YRHAS	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPQQK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMV CVEERVS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250	CLTCDNLRHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRSVHS CLSCDRNVHS	ANHVATKHER ANHLAKRHER ANPLARRHER ANPLARRHER ANALSKRHSR ANALSKRHSR	VCLR VRL VRLKTASPAV VRLKS TLV TLV	TNEISNDV <mark>RG</mark> QSSSPTET VKHSNHSSAS ASAGKYRHASCE	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHO-ATWHO RCNAOPATVR RCNAOPASVR	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMV CVEERVS CSDERVS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDESVHS CLSCDENVHS CLNCDVHVHS	ANHVATKHER ANHLAKRHER ANPLARRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANALSKRHSR	VCLR VRL VRLKTASPAV VRLKS TLV SLI	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCE	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMV CVEERVS CSDERVS CLDEKVS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRSVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS	ANHVATKHER ANHLAKRHER ANPLARRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR	VCLR VRL VRLKTASPAV VRLKS TLV SLI SLL	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCECE	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMV CVEERVS CSDERVS CLDEKVS CMNENVS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRSVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLACDKQVHV	ANHVATKHER ANHLAKRHER ANPLARRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR	VCLR VRL VRLKTASPAV VRLKS TLV SLI SLL SLL	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHAS	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCSDERVSCLDEKVSCMNENVSCETERSV
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRSVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLACDKQVHV CLPCDQQVHT	ANHVATKHER ANHLAKRHER ANPLARRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR	VCLR VRL VRLKTASPAV VRLKS TLV SLI SLL SLL SQI	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCECECE	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHO-ATWHO RCNAOPATVR RCNAOPASVR KCFSOPAAIR KCSLOPTAVH SCNESPSSLF NCGNEPVSVR	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCSDERVSCLDEKVSCMNENVSCETERSVCFTDNLI
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRNVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLACDKQVHV CLPCDQQVHT CLPCDQHVHS	ANHVATKHER ANHLAKRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR ANLLSRKHVR	VCLR VRL VRLKTASPAV VRLKS TLV SLI SLL SLL	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCECECECE	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF NCGNEPVSVR NCSKEPVSVR	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCSDERVSCLDEKVSCMNENVSCETERSVCFTDNLICFTDNLV
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRSVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLACDKQVHV CLPCDQQVHT	ANHVATKHER ANHLAKRHER ANPLARRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR	VCL	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCECECE	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHO-ATWHO RCNAOPATVR RCNAOPASVR KCFSOPAAIR KCSLOPTAVH SCNESPSSLF NCGNEPVSVR	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCSDERVSCLDEKVSCMNENVSCETERSVCFTDNLI
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRNVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLACDKQVHV CLPCDQQVHT CLPCDQHVHS	ANHVATKHER ANHLAKRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR ANLLSRKHVR	VCLR VRL VRLKTASPAV VRLKS TLV SLI SLL SLL SQI	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCECECECE	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF NCGNEPVSVR NCSKEPVSVR	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCSDERVSCLDEKVSCMNENVSCETERSVCFTDNLICFTDNLV
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRNVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLACDKQVHV CLPCDQQVHT CLPCDQHVHS CLTCDAKVHS CRSCDAKFHA	ANHVATKHER ANHLAKRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR ANLLSRKHVR ANLLSRKHVR ANSLSGRHLR SNFLFARHFR	VCL	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCECECECDCD	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF NCGNEPVSVR NCSKEPVSVR SCKNQPCVVR NCKSLTQNFV	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCSDERVSCLDEKVSCMNENVSCETERSVCFTDNLICFTDNLVCFDHKMF TTCCSESSSS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLNCDVNVHS CLACDKQVHV CLPCDQQVHT CLPCDQHVHS CLTCDAKVHS CRSCDAKFHA CMSCDAQVHS	ANHVATKHER ANHLAKRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR ANLLSRKHVR ANLLSRKHVR ANSLSGRHLR SNFLFARHFR ANRVASRHKR	VCLR VRL VRLKTASPAV VRLKS TLV SLI SLL SLL SQI SQI TVL RVI VRV	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCECECDCDCDCD	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF NCGNEPVSVR NCSKEPVSVR SCKNQPCVVR NCKSLTQNFV SCERAPAAFL	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPOOK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCLDEKVSCMNENVSCETERSVCFTDNLICFTDNLVCFDHKMF TTCCSESSSSCEADDAS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840 AT3G02380	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLNCDVNVHS CLACDKQVHV CLPCDQVHT CLPCDQHVHS CLTCDAKVHS CRSCDAKFHA CMSCDAQVHS CTTCDARVHA	ANHVATKHER ANHLAKRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR ANLLSRKHVR ANLLSRKHVR ANSLSGRHLR SNFLFARHFR ANRVASRHKR ANRVASRHER	VCLR VRL VRLKTASPAV VRLKS TLV SLL SLL SLL SQI SQI TVL RVI VRV	TNE I SNDV RGQSSSP TET VKHSNHSSAS ASAGKYRHASCECECDCDCDCDCDCD	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF NCGNEPVSVR NCSKEPVSVR SCKNQPCVVR NCKSLTQNFV SCERAPAAFL SCESAPAAFL	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPQQK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCLDEKVSCMNENVSCETERSVCFTDNLICFTDNLVCFDHKMF TTCCSESSSSCEADDASCKADAAS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840 AT3G02380 AT5G15850	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRNVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLACDKQVHV CLPCDQVHT CLPCDQHVHS CLTCDAKVHS CRSCDAKFHA CMSCDAQVHA CSSCDAQVHA	ANHVATKHER ANHLAKRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR ANLLSRKHVR ANLLSRKHVR ANSLSGRHLR SNFLFARHFR ANRVASRHER ANRVASRHER ANRLASRHER	VCLR VRL VRLKTASPAV VRLKS TLV SLI SLL SLL SQI SQI TVL RVI VRV VRV	TNE I SNDV RGQSSSP TET VKHSNHSSAS ASAGKYRHAS	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF NCGNEPVSVR NCSKEPVSVR SCKNQPCVVR NCKSLTQNFV SCERAPAAFL SCERAPAAFL SCERAPAAFF	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPQQK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCLDEKVSCMNENVSCETERSVCFTDNLICFTDNLVCFDHKMF TTCCSESSSSCEADDASCKADAAS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840 AT3G02380 AT5G15850 AT5G57660	CLTCDNLEHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRNVHS CLSCDRNVHS CLNCDVHVHS CLNCDVNVHS CLACDKQVHV CLPCDQVHT CLPCDQHVHS CLTCDAKVHS CRSCDAKFHA CMSCDAQVHS CTTCDARVHA CSSCDAQVHA CIACDTRIHS	ANHVATKHER ANHLAKRHER ANPLARRHER ANALSKRHSR ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR ANLLSRKHVR ANLLSRKHVR ANSLSGRHLR SNFLFARHFR ANRVASRHER ANRVASRHER ANRLASRHER	VCLR VRL	TNE I SNDV RGQSSSP TET VKHSNHSSAS ASAGKYRHAS	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF NCGNEPVSVR NCSKEPVSVR SCKNQPCVVR NCKSLTQNFV SCERAPAAFI SCERAPAAFI SCERAPAAFF VCEQAPAAVT	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPQQK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCLDEKVSCMNENVSCETERSVCFTDNLICFTDNLVCFDHKMF TTCCSESSSSCEADDASCKADAASCKADAAA
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AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840 AT3G02380 AT5G15850 AT5G247300 AT5G247300 AT5G247310 AT5G247310 AT5G54470 AT3G21890 AT4G38960 AT2G21320 AT4G38960	CLTCDNLRHH CHVCDESVHS CQSCDASIHS CQSCDSLVHS CHACDGSVHS CLSCDRNVHS CLNCDVHVHS CLNCDVHVHS CLNCDVHVHS CLACDKQVHV CLPCDQVHT CLPCDQHVHS CTTCDAKVHS CTTCDAKVHA CMSCDAQVHS CTTCDARVHA CSSCDAQVHA CSCDAKHA CSCCDKHA CWDCDGKVHG CWDCDGKVHG CWDCDGKVHG CWDCDGKVHG CTRPSVPVR— CTESHKAPVS CGGCDHQVHH CNGCDRHVHF CPQCDIEIHA CAKCDVEVHA CCSCDEKVHK CRPCDEKVHM	ANHVATKHER ANHLAKRHER ANPLARRHER ANPLARRHER ANALSKRHSR ANPLSHRHIR ANPLSQRHTR ANQLFAKHFR ANLLSRKHVR ANLLSRKHVR ANSLSGRHLR SNFLFARHFR ANRVASRHER ANRVASRHER ANRLASRHER ANKLASRHER ANFLVAKHTR ANFLVAKHTR ANFLVAKHTR ANFLVAKHTR ANFLVAKHTR ANKLASKHLR ANKLASKHLR ANKLASKHLR ANKLASKHQR ANKLASKHQR ANKLASRHLR CNKLASRHVR	VCL	TNEISNDVRGQSSSPTET VKHSNHSSAS ASAGKYRHASCE	GTTLTSVWHS ADKTTSVWYE PPHEVATWHH PPHQ-ATWHQ RCNAQPATVR RCNAQPASVR KCFSQPAAIR KCSLQPTAVH SCNESPSSLF NCGNEPVSVR NCKSLTQNFV SCKNQPCVVR NCKSLTQNFV SCERAPAAFL SCERAPAAFL SCERAPAAFT VCEQAPAHVT VCEQAPAHVT VCEQAPAHVT ACQSLTPWKA ACQSLTPWKA LCDGDAS-VF LCGENAT-VY ICQDKKALLF ICGERRALLF ICGERRALLF ICGERRALF ICGERAFFY ICENAPAFFY ICENAPAFFY	GFRRKARTPR GFRRKARTPR GFTRKARTPR GFTRKARTPR	SRYEKKPQQK SKSCAFEKLL GSGKKNNSSI G-GKKSHTMVCVEERVSCLDEKVSCHDEKVSCFTDNLICFTDNLVCFTDNLVCFDHKMF TTCCSESSSSCEADDASCKADAASCKADAAA

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AT1G60250		LCQSCYSHHY	NCAT	NGHQT	QVVFANMNN-	QНН	DHAHMPHVVH
AT1G49130	IDDERRREDP	RVPEIGGEVM	FFI <mark>PEAN</mark> DDD	MTSLVPEFEG	F <mark>TEMG</mark> -FFL-	SNH	NGTEETT <mark>K</mark> QF
AT1G73870	OIESNDP	LVPELGGDED	DGFFSFSSVE	ETEESLNCCV	PVFDPFSDML	IDDINGFCLV	PDEVNNTTTN
AT1G25440	FHD	LVPDISIEDO	TDNY	ELEEQLICQV	PVLDPLVSE-	OFL	NDVVEPKIEF
AT1G68520	FHD	LVPEMSTEDQ	AESY	EVEEQLIFEV	PVMNSMVEE-	QCF	nqsle <mark>k</mark> qnef
AT3G07650		LCQNCDWSGH	NNSNNNNSSS	SSTS <mark>PQQH</mark> KR	QTISC-YSG-	CPS	SSELAS IWSF
AT5G48250		LCONCDWSGH	DGKN	-STTTSHHKR	QTINC-YSG-	CPS	SAELSSIWSF
AT3G21880		YCOGCHWHES	NCSE	LGHRV	OSLNP-FSG-	CPS	PTDFNRMWSS
				LGHRL			
AT4G15250		LCQGCQWTAS	NCTG		QSLNP-YSD-	CPS	PSDFG <mark>K</mark> IWSS
AT2G47890		LCQNCDWQHH	TASS	SLHSR	RPFEG-FTG-	CPS	V <mark>PE</mark> LLAIV <mark>G</mark> L
AT1G28050		LCQECDWDVH	GSCS	VSDAHVR	SAVEG-FSG-	CPS	ALELAALWGL
AT2G33500		LCOECDWDVH	GSCS	SSATHER	SAVEG-FSG-	CPS	VL <mark>E</mark> LAAVW <mark>G</mark> I
AT1G68190		LCHGCNDKFH	GGGS	SEHRR	RDLRC-YTG-	CPP	AKDFAVMWGF
				SERKK	KDTKC-11G-		
AT3G21150		SCCSSLDCVS	SSEL			SST	T <mark>R</mark> DVN <mark>RARGR</mark>
AT5G15840		LCTACDSEVH	SANP	LARRHQR	VPILPISGN-	SFS	SMTTTHHQSE
AT3G02380		LCTACDAEIH	SANP	LARRHOR	VPILPLSAN-	scs	SMAPSETDAD
AT5G15850		LCTTCDSEIH	SANP	LARRHOR	VPILPISEY-	SYS	STATNHSCET
AT5G57660		LCVSCDADIH	SANP	LAS <mark>R</mark> HER	VPVETFFDS-	<mark>AET</mark>	AVA <mark>K</mark> ISASST
AT2G24790		LCVTCDRDIH	SANP	LSRRHER	VPITPFYDA-	VGP	A <mark>K</mark> SASSSVNF
AT5G24930		LCVTCDRDIH	SANP	LARRHER	VPVTPFYDS-	<mark>v</mark> ss	DGSV <mark>K</mark> HTAVN
AT4G27310		TFSVCESCVA	LKNA	GGGRGNR	VLSENRG-	OEE	VNSFESEEDR
AT5G54470		TVSICESCLA	RKKN	CCCINCINIA	V HOLLY	NN	
							SSLA <mark>GR</mark> DQNL
AT3G21890		LC <mark>RK</mark> CD <mark>RWVH</mark>	GANF	LAW <mark>R</mark> HVR	RVL	CTS	C <mark>QK</mark> LT <mark>RR</mark> CLV
AT4G15248		LCRKCDRWVH	SANF	LARRHLR	RVI	CTT	CRKLTRRCLV
AT1G75540		LCKDCDSSIH	AANE	HTKKHDR	FLLTG-VKL-	SAT	SSVYKPTSKS
AT4G39070		LCRECDIPIH	OANE	HTKKHNR	FLLTG-VKI-	SAS	PSAYPRASNS
AT1G06040		LCRDCDESIH	VANS	<mark>R</mark> SANHQ <mark>R</mark>	FLA <mark>TG</mark> -I <mark>K</mark> V-	AL <mark>T</mark>	STICS <mark>K</mark> EIEK
AT2G31380		LCRDCDEATH	APNT	RSANHQR	FLATG-IRV-	ALS	STSCNQEVEK
AT2G21320		LCLQCDMVVH	VGGK	RTHRR	FLLLR-ORI-	EFP	GDKPNHADOL
AT4G38960		LCLQCDMVVH	VGGK	RTHGR	FLLLR-ORI-	EFP	GDKPKENNTR
AT4G10240		LCNDCDEAIH	TCNS	HQR	FLLS <mark>G-VQ</mark> V-	SDQ	SLTENSECST
AT1G78600		LC <mark>RK</mark> CDVAIH	TVNP	HVSAHQR	FLL <mark>TGIK</mark> VG-	LES	IDTGPSTKSS
				R-	box B2		
21	1			5	SON BL		
21 ATT1 C60250	1						NINININIU
AT1G60250	1 H						NNNNH
AT1G60250 AT1G49130	1 H N						FEEEAD
AT1G60250	1 H N G			ELGEV	EKAIMDDEGF	 MGFV	
AT1G60250 AT1G49130 AT1G73870	1 H N G			 ELGEV	 E <mark>K</mark> AIMDDEGF		FEEEAD
AT1G60250 AT1G49130 AT1G73870 AT1G25440	H N G		MI	ELGEV	E <mark>K</mark> AIMDDE <mark>G</mark> F DNAESCLNGF	FPTDME	FEEEAD PLDMDL LEEFAA
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AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250	H N G P C I		<mark>MMP</mark> L L	ELGEV RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQ	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED	FPTDME FPTDME GPTDKK GTGEKSGVQK	FEEEADPLDMDLLEEFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVT
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890	H		MMPLLMDLNI	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQ	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL	FEEEADPLDMDLLEFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250	H	NQVPMMAMMM	MMPLLMDLNI DNFGMQLDSW	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ	FEEEADPLDMDLLEFFAATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL
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AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150	H	KKEDDEDELT V	MMPLLMDLNI DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKV	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ	FEEEADPLDMDLLEEFAATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKV
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKV	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I	FEEEADPLDMDLLEFAATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKV
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150	H	KKEDDEDELT	DNFGMQLDSW	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKV	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I	FEEEADPLDMDLLEFAATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDRE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840	H	KKEDDEDELT	DNFGMQLDSW	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKV	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I	FEEEADPLDMDLLEFAATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDRE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21150 AT3G215840 AT3G02380 AT5G15850	H	KKEDDEDELTV	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDP	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE ENRLVLGQEE	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG	FEEEADPLDMDLLEFAATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDREDEDDRE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21150 AT3G215840 AT3G02380 AT5G15850 AT5G57660	H	KKEDDEDELTV	MMPLLMDLNI DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPVTDP	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE ENRLVLGQEE GSSTTVDLTA	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG VPV	FEEEADPLDMDLLEFAATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDREDEDDREMADDLG
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT1G68190 AT1G68190 AT3G21150 AT3G21150 AT3G215840 AT3G02380 AT5G15850 AT5G57660 AT2G24790	H	KKEDDEDELTV	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE ENRLVLGQEE GSSTTVDLTA	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG VPV	FEEEADPLDMDLLEEFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDRE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G215840 AT3G02380 AT5G15840 AT3G02380 AT5G15850 AT5G57660 AT2G24790 AT5G24930	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPVTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE ENRLVLGQEE GSSTTVDLTA	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG VPV GSR	FEEEADPLDMDLLEFAATCNEDK INVEQPETSSNNTMFDLEPSVT
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT1G68190 AT1G68190 AT3G21150 AT3G21150 AT3G215840 AT3G02380 AT5G15850 AT5G57660 AT2G24790	H	KKEDDEDELTV	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE ENRLVLGQEE GSSTTVDLTA	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG VPV GSR	FEEEADPLDMDLLEEFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDRE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G215840 AT3G02380 AT5G15840 AT3G02380 AT5G15850 AT5G57660 AT2G24790 AT5G24930	H	KKEDDEDELTV	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E VPV GSR	FEEEADPLDMDLLEEFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDRE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G215840 AT3G02380 AT5G15840 AT3G02380 AT5G15850 AT5G57660 AT2G24790 AT5G24930 AT4G27310 AT5G54470	H	KKEDDEDELTV	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E VPV GSR	FEEEADPLDMDLLEEFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDRE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21880 AT3G215840 AT3G02380 AT5G15840 AT3G02380 AT5G15850 AT5G57660 AT2G24790 AT5G24930 AT4G27310 AT5G54470 AT3G21890	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE ENRLVLGQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG VPV GSR	FEEEADPLDMDLLEEFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKDKDAKEDEDDRE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21840 AT3G215840 AT3G02380 AT5G15840 AT3G02380 AT5G57660 AT2G24790 AT5G24930 AT4G27310 AT5G54470 AT3G21890 AT4G15248	H	KKEDDEDELTV	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E VPV GSR	FEEEADPLDMDLLEEFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLK
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AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT1G68190 AT3G21150 AT3G21150 AT3G215840 AT3G215840 AT3G22380 AT5G15840 AT3G224790 AT5G24790 AT5G24790 AT5G24790 AT5G24930 AT4G27310 AT5G54470 AT3G21890 AT4G15248 AT1G75540 AT4G39070	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E VPV GSR GSR	FEEEADPLDMDLLEFFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKDKDAKEDEDDREMADDLGEDGGDVEEEEEE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21150 AT3G21880 AT3G2380 AT5G15840 AT3G02380 AT5G554470 AT3G24930 AT4G27310 AT5G554470 AT3G21890 AT4G15248 AT1G75540 AT4G39070 AT1G06040	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E VPV GSR GSR	FEEEADPLDMDLLEFFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKDKDAKEDEDDREMADDLGEDGGDVEEEEEE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21880 AT3G21880 AT3G21150 AT3G21880 AT3G25840 AT3G27310 AT5G57660 AT2G24790 AT5G57660 AT2G24790 AT5G574470 AT3G21890 AT4G15248 AT1G75540 AT4G39070 AT1G06040 AT2G31380	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E GSR GSR	FEEEADPLDMDLLEFFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLK
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21880 AT3G21880 AT3G21150 AT5G55840 AT3G02380 AT5G55850 AT5G57660 AT2G24790 AT5G24930 AT5G574470 AT3G21890 AT4G27310 AT3G21890 AT4G15248 AT1G75540 AT4G39070 AT1G06040 AT2G31380 AT2G21320	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E CFPU GSR GSR	FEEEADPLDMDLLEFFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKDKDAKEDEDDREMADDLGEDGGDVEEEEEE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21880 AT3G21880 AT3G21150 AT3G21880 AT3G25840 AT3G27310 AT5G57660 AT2G24790 AT5G57660 AT2G24790 AT5G574470 AT3G21890 AT4G15248 AT1G75540 AT4G39070 AT1G06040 AT2G31380	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E GSR GSR	FEEEADPLDMDLLEFFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDREMADDLGEDGGDVEEEEEE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21880 AT3G21880 AT3G21880 AT3G25850 AT3G25850 AT3G27310 AT5G54470 AT3G24790 AT3G21890 AT4G27310 AT4G39070 AT4G39070 AT1G06040 AT2G31380 AT2G21320 AT4G38960	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E CD GSR GSR	FEEEADPLDMDLLEFFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDREDEDDREMADDLGEDGGDVEEEEEE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21880 AT3G21880 AT3G21150 AT5G55840 AT3G02380 AT5G55850 AT5G57660 AT2G24790 AT5G24930 AT5G574470 AT3G21890 AT4G27310 AT3G21890 AT4G15248 AT1G75540 AT4G39070 AT1G06040 AT2G31380 AT2G21320	H	KKEDDEDELT	DNFGMQLDSW KNFGMGLDSW MDDDDDVSLE	RSGLMIEEEE SFKSSDEEDD DLAGQSICEQ SSAEESACEQLEPPV VLGSNELIVP GSGSNIVQEL QSFRMVKPKVTMTDPGIL	EKAIMDDEGF DNAESCLNGF DNAESCLNGL ELGMMNIDDD GMGLMTIDED SGLLSPFVGS SDTTFKKRGS IVPYDVSCKK QREGGFILEQ EKRLVVDQEE GSSTTVDLTA DCYFSDIDGN	FPTDME FPTDME GPTDKK GTGEKSGVQK FPLNDL CGSSCGRYKQ QSFSFGRSKQ I GEEG E CD GSR GSR	FEEEADPLDMDLLEFFAALAQFTATCNEDK INVEQPETSSNNTMFDLEPSVTDLTLDS VLCKQLEELL VVFEQLELLKLELEKVDKDAKEDEDDREDEDDREMADDLGEDGGDVEEEEEE

AT1G60250	OOOHVGGHOR	RAEMF					
AT1G40230	TMEDLYYNGE	EEDKTDGAEA	CDCO				
			CPGQ				
AT1G73870	EDLTMDVESL	LEEEQLCLGF	KEPN				
AT1G25440	DVETLL <mark>GR</mark> GL	DTESYAMEEL	GLSN				SEMFKIEK
AT1G68520	DVETLLGGGD	REFHSIEELG	LGEM				
AT3G07650	KDVLVGSSSI	PETSSVPQG <mark>K</mark>	SSSA			VEEINGGGGG	DVGMCEDDFY
AT5G48250	AAQGMDHSSV	PENSSMA <mark>K</mark> EL	GVCE				DDFN
AT3G21880	TAYSMVPHNI	SYTONFSDNL	SFFS				TES <mark>KGY</mark> PDMV
AT4G15250	SLVSPFSDTL	LQELDDWNGS	STSV				VTOTON
AT2G47890	GLLWESPEIV	SINDLIVSGG	SGTH				NFRATDV
AT1G28050	KSGVVGGDGD	DGDRDRDCDR	EGACDGDGDG	EAGEGLMVPE	MSERLKWSRD	VEETNGGGGG	CVNOOWNATT
AT2G33500	RGFVEGEGEI	MVPEGINGGG	STSO				DCDTTCFT
AT1G68190	OLREENGSSS	LTERGDPSPL	ET DV				FOFILDET
	QLKEENGSSS NR		ADCT				
AT3G21150		VNA <mark>K</mark> AVAVTV	ADGI				
AT5G15840	VASWLFPNSD	KNNNNQNNGL	LFSD				<u>E</u> Y
AT3G02380	VASWLL<mark>PNPG</mark>	KNIGNQNNGF	LFGV				
AT5G15850	AASWLL <mark>PNSG</mark>	KNSGNNNGFS	IGDE				
AT5G57660	LCPWLLPNDF	NEPA <mark>K</mark> IEIGT	ENM <mark>K</mark>				
AT2G24790	TASWLLAKEG	IEITNLFSD L	DYPK			SAEE	
AT5G24930	AASWLLLPNP	KTTTTATAGI	VAVT			SAEE	VPGDSPEMNT
AT4G27310							
AT5G54470							
AT3G21890							
AT4G15248							
AT1G75540		SNPPPLKKPL	SAPP				
AT4G39070	-SAAAF <mark>GR</mark> AK	TRPKSVSSEV	PSSA				
AT1G06040	QPEPSNN	QQ <mark>K</mark> ANQIPAK	STSQ				
AT2G31380	HFDPSNQ	QSLS <mark>K</mark> PPTQQ	PAAP				
AT2G21320							
AT4G38960							
AT4G10240							
AT1G78600	METKPFVOSI	PEPOKMAFDH	ннно				
3	51						
_	51					FBCCUCDN	NCEDWINEAMD
AT1G60250						ERSCHGDN	NCERWMFAMR
AT1G60250 AT1G49130						YLMSCKKD	YDNVITVSE <mark>K</mark>
AT1G60250 AT1G49130 AT1G73870	DVGVI	KEEN <mark>K</mark> VGFEI	NCKDLKRVKD	ED		YLMSCKKD EEEEEAKC	YDNVITVSEK ENGGS <mark>K</mark> DSDR
AT1G60250 AT1G49130 AT1G73870 AT1G25440	DVGVI	KEEN <mark>K</mark> VGFEI KAMSMDIFDD	NCKDLKRVKD DRKDVDGTVP	ED FELSFDYESS	H	YLMSCKKD EEEEEA <mark>K</mark> C <mark>K</mark> TSEEEVM	YDNVITVSEK ENGGSKDSDR KNVESSGECV
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520	DVGVI DEIEEEVEEI -LKIEKEEVE	KEENKVGFEI KAMSMDIFDD EEGVVTREVH	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP	ED FELSFDYESS FEISFDYEYT	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKN	YDNVITVSE <mark>K</mark> ENGGS <mark>K</mark> DSDR KNVESSGECV VMEMGVNEMS
AT1G60250 AT1G49130 AT1G73870 AT1G25440	DVGVI	KEEN <mark>K</mark> VGFEI KAMSMDIFDD	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF	ED FELSFDYESS FEISFDYEYT GHGGIDSL	H	YLMSCKKD EEEEEAKC KTSEEEVM D-EKEDVMKN FHKHOTAP	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520	DVGVI DEIEEEVEEI -LKIEKEEVE	KEENKVGFEI KAMSMDIFDD EEGVVTREVH	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP	ED FELSFDYESS FEISFDYEYT GHGGIDSL	H	YLMSCKKD EEEEEAKC KTSEEEVM D-EKEDVMKN FHKHOTAP	YDNVITVSE <mark>K</mark> ENGGS <mark>K</mark> DSDR KNVESSGECV VMEMGVNEMS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF	ED FELSFDYESS FEISFDYEYT GHGGIDSL	H	YLMSCKKD EEEEEAKC KTSEEEVM D-EKEDVMKN FHKHQTAP KDEAHEGS DKTNTSSFTG	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG	NCKOLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII	ED FELSFDYESS FEISFDYEYT GHGGIDSL EHGGIGSLFE	HHKTTFDEGEE	YLMSCKKD EEEEEAKC KTSEEEVM D-EKEDVMKN FHKHQTAP KDEAHEGS DKTNTSSFTG ASNDIGG	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE	NCKOLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG	ED FELSFDYESS FEISFDYEYT GHGGIDSL EHGGIGSLFE GCSSEVHIEP INLDDAPLNF	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFOF	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR	NCKOLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP	ED FELSFDYESS FEISFDYEYT GHGGIDSL EHGGIGSLFE GCSSEVHIEP INLDDAPLNF	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFOF	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT TNPSGGQSSQ	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA	ED FELSFDYESS FEISFDYEYT GHGGIDSL EHGGIGSLFE GCSSEVHIEP INLDDAPLNF GCLKFETPDA AYVGKGAASS	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT TNPSGGQSSQ SLLMSQSLCG	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD	ED FELSFDYESS FEISFDYEYT GHGGIDSL EHGGIGSLFE GCSSEVHIEP INLDDAPLNF GCLKFETPDA AYVGKGAASS FNLGQSRNPD	H HKTTFDEGEE DHTVPNCLLI N F EPSPVETKGS	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHL	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT TNPSGGQSSQ SLLMSQSLCG	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL	ED	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWH	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT TNPSGGQSSQ SLLMSQSLCG -KPEEQLIDL	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL	ED	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWH	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT TNPSGGQSSQ SLLMSQSLCG -KPEEQLIDL	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL	ED	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWH	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150		KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD DYKFTGEYSQ DYSSSMDNQF	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL	ED	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWH	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN QQSQQNFQLG
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT TNPSGGQSSQ SLLMSQSLCG -KPEEQLIDL	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL	ED	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWH	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840 AT3G02380		KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD DYKFTGEYSQ DYSSSMDNQF DKQFTDQSNQ	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL	ED	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWH	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN QQSQQNFQLG
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840 AT3G02380 AT5G15850	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT TNPSGGQSSQ SLLMSQSLCG -KPEEQLIDL	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD DYKFTGEYSQ DYSSSMDNQF DKQFTDQSNQ SDFDRLIDFE	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL HQQNCSVPQT EDNQYTHYQR YQLDCNVPQR FPNSFNHHQN	ED	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWHFVNWCGKLLEESRGHQVEESTSHLQIEVSKGMTKTEPLPL	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN QQSQQNFQLG YQEQQNFQLS TNNDHCFDID
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840 AT3G02380 AT5G15850 AT5G57660 AT2G24790	DVGVI DEIEEEVEEI -LKIEKEEVE GNLGMDEVDM GNLISDEVDL LKLEEGEEDL LKDYSSFFPM PPLPKNRHAT TNPSGGQSSQ SLLMSQSLCG -KPEEQLIDL	KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD DYKFTGEYSQ DYSSSMDNQF DKQFTDQSNQ SDFDRLIDFE	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL HQQNCSVPQT EDNQYTHYQR YQLDCNVPQR FPNSFNHHQN	ED	H	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWHFVNWCGKLLEESRGHQVEESTSHLQIEVSKGMTKTEPLPL	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN QQSQQNFQLG YQEQQNFQLS TNNDHCFDID
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AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21150 AT3G02380 AT5G15840 AT3G02380 AT5G557660 AT2G24790 AT3G224790 AT4G27310 AT5G54470 AT3G21890 AT4G15248 AT1G75540 AT4G39070 AT1G06040 AT2G31380		KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD DYKFTGEYSQ DYSSSMDNQF DKQFTDQSNQ SDFDRLIDFE PYLDLDYGNV	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSEELF SAFNSSRYLF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSTL HQQNCSVPQT EDNQYTHYQR YQLDCNVPQR FPNSFNHHQN DPKVESLEQN	ED	H HKTTFDEGEE DHTVPNCLLI N EPSPVETKGS Y Q	YLMSCKKDEEEEAKCKTSEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWHFVNWCGKLLEESRGHQVEESTSHLQIEVSKGMTKTEPLPL	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN QQSQQNFQLG YQEQQNFQLS TNNDHCFDID TSEENSSGND TVNENCFEMD DDAESYDDE NDGAESYDEE
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21150 AT5G15840 AT3G02380 AT5G557660 AT5G557660 AT5G24930 AT5G24930 AT4G27310 AT4G27310 AT4G27310 AT4G27310 AT4G27310 AT4G27310 AT4G27310 AT4G27310 AT4G27310 AT4G389070 AT4G38960		KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD DYKFTGEYSQ DYSSSMDNQF DKQFTDQSNQ SDFDRLIDFE PYLDLDYGNV	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL HQQNCSVPQT EDNQYTHYQR YQLDCNVPQR FPNSFNHHQN DPKVESLEQN	ED	H HKTTFDEGEE DHTVPNCLLI N EPSPVETKGS Y Q	YLMSCKKDEEEEEAKCKTSEEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWHFVNWCGKLLEESRGHQVEESTSHLQIEVSKGMTKTEPLPLIEVENRTVRIPREDHGDGQEEEIIGC	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN QQSQQNFQLG YQEQQNFQLS TNNDHCFDID TSEENSSGND TVNENCFEMD DDAESYDDE NDGAESYDEE FLDSSLPTYG SSTTTSNCYY TPLPWAVDDF -SPLWATDEFLRCQ QNQRVSTNGN
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT3G21150 AT3G21880 AT5G15840 AT3G02380 AT5G557660 AT2G24790 AT5G24930 AT5G24930 AT4G27310 AT3G21890 AT4G27310 AT4G39070 AT4G39070 AT4G39070 AT1G06040 AT2G31380 AT2G21320		KEENKVGFEI KAMSMDIFDD EEGVVTREVH ALENYEELFG ALENYEELFG CEGLNLDDAP ESNLPKVIEE CGKYKDEMIR IWDFNLGQSR NGMQWNATNH PQTGKELVVD DYKFTGEYSQ DYSSSMDNQF DKQFTDQSNQ SDFDRLIDFE PYLDLDYGNV	NCKDLKRVKD DRKDVDGTVP DQDEGDETSP TAFNPSELF SAFNSSRYLF LNFDVGDDII ECSGLDLCEG QLRGLSRSEP GPEDTSRVEA STGQNTQIWD FSHLSSSSTL HQQNCSVPQT EDNQYTHYQR YQLDCNVPQR FPNSFNHHQN DPKVESLEQN	ED	H HKTTFDEGEE DHTVPNCLLI N EPSPVETKGS Y Q	YLMSCKKDEEEEAKCKTSEEVM D-EKEDVMKNFHKHQTAPKDEAHEGS DKTNTSSFTGASNDIIGCEIDAGFQFTINNFVDH TFTFNNVTHLNKNNQLWHFVNWCGKLLEESRGHQVEESTSHLQIEVSKGMTKTEPLPL	YDNVITVSEK ENGGSKDSDR KNVESSGECV VMEMGVNEMS EGGNSVQPAG MQQPALSNNA SNFTVDKALE SSLDNTKCYE LAPDLFSTCE MNETCSTNVK KNDTRTTNMN QNIQDIGVCE GLNRDLTNAV CHNQQNFQFN QQSQQNFQLG YQEQQNFQLS TNNDHCFDID TSEENSSGND TVNENCFEMD DDAESYDDE NDGAESYDDE NDGAESYDEE FLDSSLPTYG SSTTTSNCYY TPLPWAVDGF -SPLWATDEFLRCQ QNQRVSTNGN

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AT1G60250	CELCVAS	NSNAVVYCPT	HNQILCDS	CDRMIH	SHEDAVPPHS	RCKLCVICKR	
AT1G49130	TEEIEDC	YENNARHRLN	YENVIAAW	DKOESP	RDVKNNTSSF	OLVPPGIEEK	
AT1G73870	EASNDKD	RKTSLFLRLD	YGAVISAW	DNHGSP	WKTGIKPECM	LGGNTCLPHV	VGGYEKLMSS
AT1G25440	VKVKEEE	H <mark>KNVLMLR</mark> LN	YDSVISTW	GGOGPP	WSSGEPPERD	MDISGWPAFS	MVENGGESTH
AT1G68520	GGIKEEK	KEKALMLRLD	YESVISTW	GGOGIP	WTARVPSEID	LDMVCFPTHT	MGESGAEAHH
AT3G07650	SNDSFMS	SKTEPIICFA	SKPAHSNI	SFSGVT	GESSAGDFQE	CGASSSIQLS	GEP
AT5G48250	SADSFMT	CRTEPIICYS	SKPAHSNI	SFSGIT	GESNAGDFQD	CGASSMKQLS	REPQ
AT3G21880	ASPPGQQ	MNINTGLQLP	LSPVLFGQ	IHPSLNIT	GENNAADYQD	CGMSPGFIMS	
AT4G15250	YEDSFKE	ENNIGLPSLL	LPTLSGNVVP	NMSLSMSNLT	GESNATDYQD	CGISPGFLIG	
AT2G47890	LESGLKW	FDQQDHEDFP	YCSLLKNL	SESDEKP	ENVDRESSVM	VPVSGCLNRC	EEETVM
AT1G28050	GVKEIKK	DDYKRSTSGQ	VQPTKSES	NNRPIT	FGSEKGSNSS	SDLHFTEHIA	GTSC
AT2G33500	AF <mark>K</mark> ESYQ	QEDSVHSTST	KGQETSKS	NNIPAA	IHSH <mark>K</mark> SSNDS	CGLHCTEHIA	ITSNR
AT1G68190	DTICSDD	DFQIPDIDLT	F <mark>R</mark> NFEEQF	GADPEP	IADSNNVFFV	SSLDKSHEMK	
AT3G21150	VSYASLA	LAVETRPRAT	KR <mark>VFLAAA</mark>	F	WFG <mark>VK</mark> NTTTW	QNL <mark>KK</mark> VEDVT	
AT5G15840	IKYGSSG	THYNDNGSIN	HNAYISSM	<mark>ETGVV</mark> P	ESTACVTTAS	HPRTPKGTVE	Q
AT3G02380	INYGFSSGAH	YNNNSL <mark>K</mark> DLN	HSASVSSM	<mark>DISVVP</mark>	ESTASDITV Q	HPRTTKETID	
AT5G15850	INCGSWG	AL <mark>R</mark> SSNGSLS	HMVNVSSM	<mark>DLGVVP</mark>	ESTTSDATVS	NPRSPKAVTD	
AT5G57660	FCRSKLS	AFT <mark>YP</mark> SQSVS	HSVSTSSI		DGNTNNSVN <mark>R</mark>	STITSSTT <mark>GG</mark>	
AT2G24790	GVVPVQN	K LFLNEDYFN	FDLSAS <mark>K</mark> I		FINQTVST <mark>R</mark> T	IDVPLVPESG	<mark>GV</mark>
AT5G24930	FTGGS <mark>K</mark> G	FTYGGGYNCI	SHSVSSSS		PDGGSVADVS	YPYGGPATSG	
AT4G27310	EEDEDEE	YSDDEDEDDD	ED <mark>G</mark> DDEE <mark>A</mark>		WSAAAQVPPV	MSSSSSDGGS	
AT5G54470	SDEDEEE	EEVENQVV <mark>P</mark> A	AVEQELPV		VSS <mark>GE</mark> GDQVV	KRTRLDLDLN	
AT3G21890		DHD	FHVVL <mark>PS</mark> V	TT <mark>VGE</mark> T	TVEN <mark>R</mark> SEQDN	H <mark>E</mark> VPFVFL	
AT4G15248		DN	FNVVL <mark>PE</mark> I	<mark>R</mark> MIA	RIEEHSSDH <mark>K</mark>	I <mark>P</mark> FVFL	
AT1G75540	FSKSGDD	DGVLPYMEPE	DDNNT <mark>KR</mark> N	NNNNNN	NNNTVSL <mark>P</mark> S	KNLGIWVPQI	
AT4G39070	GIEENYH	HVSDSGSGSG	CTGSISEY	LMETLPG	WRVEDLLEHP	SCVSYEDNII	
AT1G06040	FHFSDI	ESTD <mark>KK</mark> GQLD	L <mark>GAGELDW</mark>	FSDMG	FFGDQIND <mark>K</mark> A	LPAAEVPELS	
AT2G31380	FSYSDLD	CSNKEKEQLD	L <mark>GELDW</mark>	LAEMG	LFGDQPDQEA	LPVAEVPELS	
AT2G21320	KASSGRG	QESNGNGDHD	HNMIDLNS		EPGSHNQEEG	IDVNNANNHE	
AT4G38960	GEANGKI	DDEMIDLNAN	PQRVHEPS		DVNNENNHEP	AGLVPVGPF <mark>K</mark>	
AT4G10240	FSSETYQ	IQS <mark>K</mark> VSLNSQ	YSSEETEA		GNSGE IVH <mark>K</mark> N	PSVILSP	
AT1G78600	ENN <mark>G</mark> SS <mark>K</mark>	ADTSRRGDSD	SSSMMRSA	E	EDGEDNNNCL	GGETSWAVPQ	
	0.1						
Λ	91						
AT1G60250	-PSRRFLIGG	YQFNFPPVHP	PAAEG <mark>IPVT</mark> P	PTELPQQDIN	YDYLDDVDDF	SWFGR	
AT1G60250 AT1G49130	-PSRRFLIGG	RVRSERE	ARVWRYRDKR	<mark>K</mark> NRLFEKKIR	YEV <mark>RK</mark> VNAD <mark>K</mark>	RPRMKGRFVR	RSLAIDS
AT1G60250 AT1G49130 AT1G73870	-PSRRFLIGG DGSVTRQQGR	RVRSERE DGGGSDGERE	ARVWRYRDKR ARVLRYKEKR	KNRLFEKKIR RTRLFSKKIR	YEV <mark>RK</mark> VNAD <mark>K</mark> YEVRKLNAEQ	RPRMKGRFVR RPRIKGRFVK	RTSLLT
AT1G60250 AT1G49130 AT1G73870 AT1G25440	-PSRRFLIGG DGSVTRQQGR QKQYVGGCLP	RVRSERE DGGGSDGERE SSGFGDGGRE	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK	RTSLLT RASLAAAASP
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520	-PSRRFLIGG	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR ARVSRYREKR	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK	RTSLLT RASLAAAASP RSSI <mark>G</mark> VAH
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650	-PSRRFLIGG DGSVTRQQGR QKQYVGGCLP HNHFRGLGLH PWYPPTLQDN	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE NACSHSVTRN	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR ARVSRYREKR NAVMRYKEKK	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR KARKFDKRVR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK YASRKARADV	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK RRRVKGRFVK	RTSLLT RASLAAAASP RSSIGVAH AGEAYDYDPL
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250	-PSRRFLIGG DGSVTRQQGR QKQYVGGCLP HNHFRGLGLH PWYPPTLQDN PWCHPTAQDI	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE NACSHSVTRN IASSHATTRN	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR ARVSRYREKR NAVMRYKEKK NAVMRYKEKK	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR KARKFDKRVR KARKFDKRVR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK YASRKARADV YVSRKERADV	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK RRRVKGRFVK RRRVKGRFVK	RTSLLT RASLAAAASP RSSIGVAH AGEAYDYDPL SGEAYDYDPM
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880	-PSRRFLIGG DGSVTRQQGR QKQYVGGCLP HNHFRGLGLH PWYPPTLQDN PWCHPTAQDIEAPWETN	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE NACSHSVTRN IASSHATTRN FEVSCPQARN	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR ARVSRYREKR NAVMRYKEKK NAVMRYKEKK EAKLRYKEKK	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR KARKFDKRVR KARKFDKRVR LKRSFGKQIR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK YASRKARADV YVSRKERADV YASRKARADT	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK RRRVKGRFVK RRRVKGRFVK RKRVKGRFVK	RTSLLT RASLAAAASP RSSIGVAH AGEAYDYDPL SGEAYDYDPM AGDSYDYDPS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250	-PSRRFLIGG DGSVTRQQGR QKQYVGGCLP HNHFRGLGLH PWYPPTLQDN PWCHPTAQDIEAPWETNDSPWESNV	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE NACSHSVTRN IASSHATTRN FEVSCPQARN EVSFNPKLRD	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR ARVSRYREKR NAVMRYKEKK NAVMRYKEKK EAKLRYKEKK EAKKRYKOKK	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR KARKFDKRVR KARKFDKRVR LKRSFGKQIR SKRMFGKQIR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK YASRKARADV YVSRKERADV YASRKARADT YASRKARADT	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK RRRVKGRFVK RRRVKGRFVK RKRVKGRFVK RKRVKGRFVK	RTSLLT RASLAAAASP RSSIGVAH AGEAYDYDPL SGEAYDYDPM AGDSYDYDPS SGETFEYDPS
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890	-PSRRFLIGG DGSVTRQQGR QKQYVGGCLP HNHFRGLGLH PWYPPTLQDN PWCHPTAQDIEAPWETNDSPWESNV VPVITSTRSM	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE NACSHSVTRN IASSHATTRN FEVSCPQARN EVSFNPKLRD THEINSLERN	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR ARVSRYREKR NAVMRYKEKK NAVMRYKEKK EAKLRYKEKK EAKKRYKOKK SALSRYKEKK	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR KARKFDKRVR KARKFDKRVR LKRSFGKQIR SKRMFGKQIR KSRRYEKHIR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK YASRKARADV YVSRKERADV YASRKARADT YASRKARADT YESRKVRAES	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK RRRVKGRFVK RRRVKGRFVK RKRVKGRFVK RKRVKGRFVK RKRVKGRFVK RKRVKGRFVK	RTSLLT RASLAAAASP RSSIGVAH AGEAYDYDPL SGEAYDYDPM AGDSYDYDPS SGETFEYDPS AADP
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050	-PSRRFLIGG DGSVTRQQGR QKQYVGGCLP HNHFRGLGLH PWYPPTLQDN PWCHPTAQDIEAPWETNDSPWESNV VPVITSTRSM KTTRLVATKA	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE NACSHSVTRN IASSHATTRN FEVSCPQARN EVSFNPKLRD THEINSLERN DLERLAQNRG	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR ARVSRYREKR NAVMRYKEKK NAVMRYKEKK EAKLRYKEKK EAKKRYKOKK SALSRYKEKK DAMORYKEKK	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR KARKFDKRVR KARKFDKRVR LKRSFGKQIR SKRMFGKQIR KSRRYEKHIR KTRRYDKTIR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK YASRKARADV YVSRKERADV YASRKARADT YASRKARADT YESRKVRAES YESRKARADT	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK RRRVKGRFVK RRRVKGRFVK RKRVKGRFVK RKRVKGRFVK RKRVKGRFVK RKRVKGRFVK RTRIRGRFAK RLRVRGRFVK	RTSLLT RASLAAAASP RSSIGVAH AGEAYDYDPL SGEAYDYDPM AGDSYDYDPS SGETFEYDPS AADP ASEAPYP
AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500	-PSRRFLIGG DGSVTRQQGR QKQYVGGCLP HNHFRGLGLH PWYPPTLQDN PWCHPTAQDIEAPWETNDSPWESNV VPVITSTRSM KTTRLVATKA ATRLVAVTNA	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE NACSHSVTRN IASSHATTRN FEVSCPQARN EVSFNPKLRD THEINSLERN DLERLAQNRG DLEQMAQNRD	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR ARVSRYREKR NAVMRYKEKK NAVMRYKEKK EAKLRYKEKK EAKKRYKOKK SALSRYKEKK DAMORYKEKK	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR KARKFDKRVR KARKFDKRVR LKRSFGKQIR SKRMFGKQIR KSRRYEKHIR KTRRYDKTIR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK YASRKARADV YVSRKERADV YASRKARADT YASRKARADT YESRKVRAES YESRKARADT YETRKARAET	RPRMKGRFVR RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK RRRVKGRFVK RRRVKGRFVK RKRVKGRFVK RKRVKGRFVK RKRVKGRFVK RTRIRGRFAK RLRVKGRFVK RLRVKGRFVK	RTSLLT RASLAAAASP RSSIGVAH AGEAYDYDPL SGEAYDYDPM AGDSYDYDPS SGETFEYDPS AADP ASEAPYP
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AT1G60250 AT1G49130 AT1G73870 AT1G25440 AT1G68520 AT3G07650 AT5G48250 AT3G21880 AT4G15250 AT2G47890 AT1G28050 AT2G33500 AT1G68190 AT3G21150 AT5G15840 AT3G02380 AT5G15850 AT5G24790 AT5G24790 AT5G247310 AT5G247310 AT5G247310 AT5G54470 AT3G21890 AT4G38960 AT4G38960 AT2G21320 AT4G38960 AT4G10240	-PSRRFLIGG	RVRSERE DGGGSDGERE SSGFGDGGRE LGDAGDGGRE NACSHSVTRN IASSHATTRN FEVSCPQARN EVSFNPKLRD THEINSLERN DLERLAQNRG DLEQMAQNRD PIFAPKPASSGVS VTQLSPMDRE VQQLTPMERE AQMLSPRDRE DHQASSMDRE AVQLSPAERE AVPLTSAEREGGSVLSDEENQLSDEENQTNNTNNTNNTSHLHE	ARVWRYRDKR ARVLRYKEKR ARVSRYREKR NAVMRYKEKK NAVMRYKEKK EAKLRYKEKK EAKLRYKEKK EAKKRYKOKK SALSRYKEKK DAMORYKEKK TISFSSSETD AGMIRAVESK ARVLRYREKK ARVLRYREKK ARVLRYREKK ARVLRYREKK ARVLRYREKR TKRTRARENS SRPLKRLSRD OFGMYNKETS NNSESYRVYD GHVHSYK-PM AHAHSYNRPM AHAHSYNRPM	KNRLFEKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR RTRLFSKKIR KARKFDKRVR KARKFDKRVR LKRSFGKQIR SKRMFGKQIR KSRRYEKHIR KTRRYDKTIR KTRRYDKTIR NPYSHSEEVI LARAMTQQLR KTRKFEKTIR KTRKFEKTIR KNRKFEKTIR KNRKFEKTIR KNRKFEKTIR CLLCSDDEIG EGLSRSTVVM PEVVSFAPIQ GSSQFHHQGF KSNVSHKKPR KSNVPNKKQR	YEVRKVNADK YEVRKLNAEQ YEVRKLNAEK YEVRKLNAEK YASRKARADV YVSRKERADV YASRKARADT YASRKARADT YESRKVRAES YESRKARADT YETRKARAET SFCPSLSNNT	RPRMKGRFVK RPRIKGRFVK RPRMKGRFVK RPRMKGRFVK RRRVKGRFVK RKRVKGRFVK RKRVKGRFVK RTRIRGRFAK RLRVKGRFVK RLRVKGRFVK RQKVITRLKE RWRVDSEEGW RPRVNGRFAK RPRIKGRFAK RPIKGRFAK RPIKGRFAK RPIKGRFAK RPIKGRFAK RPIKGRFAK RPIKGRFAK RPIKGRFAK RPIKGRFAK	RTSLLT——— RASLAAAASP RSSIGVAH— AGEAYDYDPI SGEAYDYDPS SGETFEYDPS AADP———— ATDP———— KKRARVEEKK AENDNV——— REIEAEEQGF RIET—EAEAE KKDV—DEEAN RTETENDDIF RTDSRENDGG RTDTNESNDV TVVV———— SSSSFY——— PQITPPPLSS

56	61	
AT1G60250		
AT1G49130		
AT1G73870		
AT1G25440	L <mark>GVNY</mark>	
AT1G68520		
AT3G07650	TPTRSY	
AT5G48250	SPTRSY	
AT3G21880	SPTTNN	
AT4G15250	LVM	
AT2G47890		
AT1G28050		
AT2G33500		
AT1G68190	A	
AT3G21150		
AT5G15840	NTMLMYN	TGYGIVPSF
AT3G02380	E IFSTSLMSE	TGYGIVPSF
AT5G15850	QAFSTMITFD	TGYGIVPSF
AT5G57660	L <mark>SHVYASAAH</mark>	AQYGVVPTF
AT2G24790	DVGVYG	-GFGVVPSF
AT5G24930	VGHGGIF	SGFGLVPTF
AT4G27310		
AT5G54470		
AT3G21890		
AT4G15248		
AT1G75540	N <mark>KK</mark> FRSFW	
AT4G39070		
AT1G06040		
AT2G31380		
AT2G21320		
AT4G38960		
AT4G10240		
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