

```

1
Ptr355005      -----
Ptr691617      MGDITCVMQP   FSYAAGISND   AKEGNPIHAL   GQSISFGRFM   SDSLSWEKWS   SFSHNRVVEE
Os03g58480.1  -----
AT1G54460.1    -----
Ptr85496       -----
Ptr595399      -----
AT3G04630.1    -----
Q84ZT9_WAVE-DAMPENED2 -----
AT3G23090.1    -----
Ptr564928      -----
Ptr566133      -----
Os11g36340.1   -----
AT2G35880.1    -----
Ptr653406      -----
AT1G70950.1    -----
Ptr564607      -----
Ptr658783      -----
Os02g10690.1   -----
Os06g40450.1   -----
Ptr578210      -----
Ptr654148      -----
AT2G25480.1    -----
AT4G32330.1    -----

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61
Ptr355005      -----
Ptr691617      AEKFSRPGSV   AQKKAFFFEAH  YRNLAARKAA   ALLEQANAEA   NNVQEPENEG   GIHDKTTQDS
Os03g58480.1  -----
AT1G54460.1    -----
Ptr85496       -----
Ptr595399      -----
AT3G04630.1    -----
Q84ZT9_WAVE-DAMPENED2 -----
AT3G23090.1    -----
Ptr564928      -----
Ptr566133      -----
Os11g36340.1   -----
AT2G35880.1    -----
Ptr653406      -----
AT1G70950.1    -----
Ptr564607      -----
Ptr658783      -----
Os02g10690.1   -----
Os06g40450.1   -----
Ptr578210      -----
Ptr654148      -----
AT2G25480.1    -----
AT4G32330.1    -----

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121
Ptr355005      DLSLWDKWSS   FSQNKYLEEV   EKCATPGSVA   EKRAYFEAHY   KKIAARKAEL   LDQEKQIEHD
Ptr691617      LTVATNSQEA   GDREEVHVQQ   VNCEASFVAD   DNTRTSNVDM   ERFESSNVEE   VEPSAENEIL
Os03g58480.1  -----
AT1G54460.1    -----
Ptr85496       -----
Ptr595399      -----
AT3G04630.1    -----
Q84ZT9_WAVE-DAMPENED2 -----
AT3G23090.1    -----
Ptr564928      -----
Ptr566133      -----
Os11g36340.1   -----
AT2G35880.1    -----
Ptr653406      -----
AT1G70950.1    -----
Ptr564607      -----
Ptr658783      -----
Os02g10690.1   -----
Os06g40450.1   -----
Ptr578210      -----
Ptr654148      -----
AT2G25480.1    -----
AT4G32330.1    -----

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Ptr355005	LSRANNQNSG	DLIVKTSQMD	SDFDASNGQT	SSEGIRPESK	FDNEWGGHI	DKPTEDAAD
Ptr691617	VENCVKNETL	NQIVKVDNKE	EVKEMELSVS	KQMEKPLLKD	FM-SCKDDAA	SMSSKKKPAVS
Os03g58480.1	DPVIDSETQE	D			K CVNQDSVKFI	DQEKSGPPKS
AT1G54460.1	VKECTEQNFV	A			DDARF	RQOGITETPG
Ptr85496	ADVSDKDEK	P			EAQKSSD	DRNSSSPSLK
Ptr595399	ADPSDGKDEK	P			GAQKLS	DKNSSSPSQK
AT3G04630.1	VKECTEEKSL	S				ENAPNVG
Q84ZT9_WAVE-DAMPENED2	EKECTEENSL	S				QNH
AT3G23090.1	VKECTSEIPV	G			KPIGDDFESK	DVTKSSLHAK
Ptr564928	VKECTTEVSV	EVTELSHAEK	SKEGQHVCS	NFEDGLKVKK	VKAVNRKSKD	IGQQKSSIKR
Ptr566133	VKECTTEVSV	EVTELSHAEK	SKEDQTVVCS	NFEDGLKVEK	VKALNRKSKD	IGQKSSSTKH
Os11g36340.1	KAKVAAAVAN	G			KVGKKPAL	SQSASFARG
AT2G35880.1	TKGAYTDITR	K		SI	DATTSTKTSLK	PVVAGGSKPK
Ptr653406	GSKTLTKQTS	S				TSKS
AT1G70950.1	EILVNSDEVI	ELDEEEGGGD	HGRVADLVEC	ENLGPPPEMPQ	EIVIQDSALV	EEAGSKLDEH
Ptr564607	ISFYTONSES	G				
Ptr658783	KILNNVSKTT	A				KTQNRGEGE
Os02g10690.1	GKKPRPAKAT	Q			SHG	PKVVKSRSRSPK
Os06g40450.1	PEDVKPRVSK	G			SQSHSPKV	TTKSQRQSPR
Ptr578210	TREVEGELKE	G			EAKVKDA	DNSEKARSQK
Ptr654148	TGEVEDELKE	G			EVKVKDA	DNSENAKSQK
AT2G25480.1	CCSTQHPMEA	S			EGTQNEQV	DDSKQMRGQK
AT4G32330.1	TIEHVKEAAE	G			TQVEHV	DDSKCMGGEK

241

Ptr355005	AHQASTNKP	YEDTAVDAHG	QASSNDPYED	AAFSVHGQAS	LNEPYEDAAI	DVQGQVPLNG
Ptr691617	SSKSSIIDKA	SKLPSTPAKP	APSVRAKKEN	TATPISKKSA	LESVERRKPT	PKSTHKSMMNF
Os03g58480.1	PSKPGISGSD	RSKRTVPQPF	ALSSQRKS		HG	GNSKAAHPSG
AT1G54460.1	SHKSSVKPRV	TAKTTVPKPF	SLSAEKPR		RAAVDNNNSL	GNGASHNSSS
Ptr85496	AGG---VGNA	HVRQTVQPPF	ALATDKRV			GR
Ptr595399	IGVNGNKAHA	RAHQTVQPPF	ALATDKHV			GG
AT3G04630.1	SAERVGAQKS	PKTRNGNAK				
Q84ZT9_WAVE-DAMPENED2	KSSNVITEND	SKKKNL				
AT3G23090.1	HASKSGRGN	KTRNTVPQPF	SLATEKRA		SSTRSFT	SESLESAGFK
Ptr564928	VSKPASAAIA	RTKHTVPQPF	ALATEKRA	SSG	IRPSGPEPDI	TNGVNXSFKA
Ptr566133	ASKPAPAGLA	RTKHTVPQPF	ALATEKRA	SL	GMRPSGEPDI	TNGLNXSFKA
Os11g36340.1	AAAKKAATPK	QAKTTDGKGA	VPNGSEKA		AGRAV	EKKVNSARTP
AT2G35880.1	ATPSSSSGVS	AKRTSLVSAP	LKKQTMPV		KTISKDAA	SGPTSKLGDE
Ptr653406	SSQQAASVKS	SSLTEAAKCP	PPQVSESA			
AT1G70950.1	ASKKPSNSME	TPSSSVNVKP	IIPNDVRV		TKASTKGHDV	TPKAASRRTK
Ptr564607	---NSRI	HPVKNRYSPF	LANCKPAS		SMVSDFKL	SIFLCSEKEP
Ptr658783	TPQRAKSEKQ	SSRATTPTRR	TLHRAKNE		ENSESG	NLRLHPVNRS
Os02g10690.1	SGGEGQARRS	TPSSTLSKAP	VARVSHAD	SST	GSKINGDSSV	DRNKAQKQEP
Os06g40450.1	SGDKSQARKN	SPGSTYPAK	IARVSDPD	F	VDSSSCNDGA	DIKKKAQKSS
Ptr578210	SGSGGNAKP	SNPKNVSATQ	VKGKDGDR	AV	ARTAVSNGSV	AVNSQLKQSL
Ptr654148	GPGKRGTAKP	SHLKNASATQ	VKKGKDGR	DAE	VQLTVSNGSV	AVNSQLKQSL
AT2G25480.1	VQGRVKHEKT	SGGKNIPSVF	VKKKKDGK		VVASNGSV	APNVKPVKSP
AT4G32330.1	AQRKPRHEKL	SGGKNNSSVH	IKKSKGK	SAD	AKVAASNGSV	APNVQTTNPL

301

Ptr355005	RVKEEQD		SELDT	PVSAKLEEVA	LMK	KE	ETGSQDMREL
Ptr691617	TPAREFNRIIT	SSIIRKIDNS	RVGSHSKSSK	DCPTPSRTPM	MMVSIASKH		PLATPQSEKR
Os03g58480.1	SSPASFT		KKTAP	IT		PK	KIAQPDHMLH
AT1G54460.1	ASRV		SQLNS	PLPT			RRIPDHKMH
Ptr85496	SPATMKN		SQONS	PSTA		R	KPLQPDNKKR
Ptr595399	SPVSMKN		SQONS	PSTA		R	KPLHPDNKKH
AT3G04630.1	VS		KQQDA	PLLA		VR	KPFQPENKKH
Q84ZT9_WAVE-DAMPENED2							
AT3G23090.1	KFPDGH		KVQSQ	ATKV		PR	KPFQPKNKKL
Ptr564928	NMVLRONP		MKQNO	PLSV		SR	KPLQPNKKH
Ptr566133	NNALRPNP		IKONO	PLSV		SR	KPLQPNKKH
Os11g36340.1	AASRSFP		VKSGS	VDAPPNDASP	ETQES	NE	NTTNAFEQTL
AT2G35880.1	GSKSIKE		ETAGK	DVEEAGSTTA	VV	AD	KVSNPFKAEM
Ptr653406						AD	QNSKPETTTF
AT1G70950.1	GSSLSSN		SKTNV	DAKS		Q	KELRPKKTIE
Ptr564607	RVK		KFESP	SSRS			KRVEPIAHL
Ptr658783	ERASRVN		KFESP	PSRS			KKVEPMSHLR
Os02g10690.1	RSST--K		ETSLE	DSKE		KK	KTQKPLGQNS
Os06g40450.1	FRPVARA		SQSLE	DSKE		KK	KTQKTSNQCS
Ptr578210	KSNS-FN		ERQGO	ASKQSGKSDA	VLSAG	LV	EKAKPLKKGP
Ptr654148	KSKS-FN		ERQGO	ASKQSGTSDA	GPPEGIV	EK	MKLKPLKKGP
AT2G25480.1	KSKS-LN		GREAH	VTKHGHNHSL	PAEGT	RD	KPKLRETRKQ
AT4G32330.1	KSKS-FN		GREAQ	VTQKGKHD	PAESADGEKV		KPKSQKKQAH

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Ptr355005	PKNLEKEMES	ILM-----	IK	EEKVK-----	LDHRKESP	KISPMKSVRD
Ptr691617	RAKTPLHPST	SGSKTVRSKW	HFLPKDCSMF	MTSSR-----	NRSQSPSA	SIPFSFRTEE
Os03g58480.1	H--QEEDSCS	VT-----	ST	TTSTR-----	AGTKTATV	GVAPSFVCAD
AT1G54460.1	H--DEEDSFS	VAS-----	SS	ATSIR-----	SFKPKITI	GVAPTFSSST
Ptr85496	H--DEEDSWS	VASSYPVRFE	QHLSLAMFST	AASVR-----	TVKSVTV	GTAPTFRSAE
Ptr595399	H--DEEDSWS	VT-----	ST	SASVR-----	TVKSVTV	GTAPTFRSSE
AT3G04630.1	L--DDEDNCS	IAS-----	SV	ATSMR-----	MGKSGFTY	GSAPTFRSAQ
Q84ZT9_WAVE-DAMPENED2	---DEEDDCS	VA-----	SS	MKNK-----	SKVTH-----	GTAPTFRSAQ
AT3G23090.1	S--DEEDSCS	VAS-----	YA	TSGAK-----	SAKSRTVV	TAAPSFIRSTE
Ptr564928	P--DEEDNCS	VT-----	ST	TASAR-----	PIMSKATA	VAAPVFRCTE
Ptr566133	P--DEEDNCS	VTSSYPVS	SI	LTSAR-----	PAKSKPAA	VAAPVFRCTE
Os11g36340.1	PEKMEDDVHS	TT-----	SS	TNTPR-----	AAAQRKNAAA	AAGFSFRLQE
AT2G35880.1	ASKDDEDTRS	TT-----	TS	TSTPR-----	GRRSSVGS	ASGFSFRFEE
Ptr653406	SSKEEDDTHS	TTS-----	SA	TLSGR-----	---RSS-----	GSFGFSFRLEE
AT1G70950.1	SQPKSSNKTE	TR-----	PP	IATNRCCTST	TSSKLEMSTG	STSFRCFKSE
Ptr564607	TNRTKQNAS	IN-----	PD	TRPSA-----	---STFSFKSDE	---STFSFKSDE
Ptr658783	ANRNKQIVNS	IK-----	PD	TMPCA-----	---AASFSSKDE	---AASFSSKDE
Os02g10690.1	SVKKDDESNP	ES-----	---	---	RKAGGTP	AYGFSFKCDE
Os06g40450.1	VKNDEEE	---	PN	CEKVK-----	PQVRGSTP	AYGFAFKCDE
Ptr578210	VVKAEGETES	TSS-----	PT	AEDAK-----	SRKFGTLP	NYGFSFKCDE
Ptr654148	VDKAEADTDS	TSS-----	PT	VEDAK-----	PRKVGALP	NYGFSFKCDE
AT2G25480.1	VNDTSEDDTQ	YS-----	PK	EDDGK-----	PRRASALP	NYGFSFRCDQ
AT4G32330.1	ETSEDDTQSS	NS-----	PK	ADDGK-----	PRKVGALP	NYGFSFRCDQ

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Ptr355005	LAMAKKKPEP	PITKRPQISS	LKFSKPASTS	SSLSASQSSI	KKVNGSSSLPR	SKNTPVGGNK
Ptr691617	RAARRKE---	KL--EEKFNA	YQAQKVQLQV	TLKEKAETEL	KRLRQSLCFK	ARPLPDFYKQ
Os03g58480.1	RADKRKEFYT	KL--EEKHKA	FEAEKNEAEA	RKKEEQETAL	KQLRKSILVIR	AKPMPSFYQE
AT1G54460.1	RLERRREFYQ	KL--EEKQKA	LEAEKRENEK	RLKEEQEAVT	KQLRKNMAYK	ANPVPSFYQE
Ptr85496	RAAKRKEYYS	KL--EEKHRA	LEKERSQAE	RTKEEQEAAI	RQLRKNMAYK	ANPVPNFYQE
Ptr595399	RAAKRKEYYS	KL--EEKHRA	LEKERSQAEA	RTKEEQEAAI	KQLRKSMLYK	ANPVPSFYQE
AT3G04630.1	RAEKRRKEYYQ	KL--EENQQA	LEAERNELEQ	RQKDEQEAFF	KQLRKNLKF	AKPVPNFYQE
Q84ZT9_WAVE-DAMPENED2	RAEKRRKEYYQ	KL--EEKHQA	LEAERIELEQ	RQKEEQEAAI	KQLRKNLKF	ANPVPDFYQ
AT3G23090.1	RAEKRRKEYYQ	KL--EEKHQA	MEAEKTOSEA	RNKEATEAAL	RQLRKSFRFK	ANPMPSFYQE
Ptr564928	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Ptr566133	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Os11g36340.1	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
AT2G35880.1	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Ptr653406	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
AT1G70950.1	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Ptr564607	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Ptr658783	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Os02g10690.1	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Os06g40450.1	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Ptr578210	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
Ptr654148	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
AT2G25480.1	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE
AT4G32330.1	RAEKRRKEYYS	KL--EEKHQA	LEAEKTOSEA	RTKEEQEAAI	KQLRKSILTFK	ANPMPSFYQE

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Ptr355005	KVNPKSLHMS	LSMDSNPSET	VPLTTTRKSF	IMEKMGDKDI	VKRAFKTFQN	NFSQLKSSAE
Ptr691617	RVPANNQMEK	VPLTHSESP	PG--RKMTPS	K-----	---	---
Os03g58480.1	GPPPKAELKK	VPLTRAKSPK	FT--RRRSCS	DA-----	---	---
AT1G54460.1	GPPPKQPFKK	FPFTRPKSPN	LN--RRKSCS	DTVNASYQEV	---	---
Ptr85496	PPPPKVERKK	LPLTRPQSPK	LN--RRKSCS	DAVQTSQEE	---	---
Ptr595399	PPPPQVELKK	LPLTRPQSPK	LN--RRKSCS	DAVRTSQEE	---	---
AT3G04630.1	APPAKPELKK	LPLTRPQSPK	LILSRKSF	DAVSSSSREE	I-----	---
Q84ZT9_WAVE-DAMPENED2	RPPVKPELKK	FPLTRPQSPK	LNLRRKSCS	---	---	---
AT3G23090.1	GPPPKVELKK	LPLTRAKSPK	LG--RRNPKE	G-----	---	---
Ptr564928	GPPPKVELKK	LPPTRAKSPK	LG--RRKSCN	---	---	---
Ptr566133	GPPPKVELKK	LPPTRAKSPK	LG--RRKSCS	---	---	---
Os11g36340.1	-QPPKVEFKK	IPPTRARSPK	LG--RHKPTN	SAAAASVDGS	VSCESPRSIT	NFAKFTESTE
AT2G35880.1	-PPPVEFKK	IPPTRARSPK	LG--RRKSSS	DATGGEAAPR	---	---
Ptr653406	-PPPVELKK	IPPTRARSPK	LG--RRKSSS	TSMNNSLEDV	GSSFSPRASH	SPHLNQESSN
AT1G70950.1	GTRPVSHNKT	EPKVAQS	---	RSRPAT	SASITN	---
Ptr564607	AVPPASNGNK	VQTVQ	---	---	---	---
Ptr658783	AVSPGSDGNK	---	---	---	---	---
Os02g10690.1	PTPPKVEFKK	IPPTRARSPK	LG--RSKNKS	AGETEETVT	PPGRPVRLSL	DSLDEKVSQN
Os06g40450.1	PPPPKVEFKK	IPPTRARSPK	LG--RSKNKS	SVSTEE-STV	PSSRPARL	-SLDERASQN
Ptr578210	PAPLKVLEKK	IPPTRARSPK	LG--RKKSPS	PADSEG-NNS	QSNRSGR	-SLDEKISSK
Ptr654148	PTPPKVELKK	IPPTRARSPK	LG--RKKSSS	PADTEG-NNS	QSYRPGRL	-SLDEKVSNN
AT2G25480.1	POLPKTELKK	IAITRPSKPK	LG--RKKTNS	RADSEEAITI	QTPRFGRL	-SLDEKTPKD
AT4G32330.1	POPPKTELKK	IPPTRPSKPK	LG--RKKTAS	GADS---	QTPRLGRL	-SLDERASKD

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Ptr355005	ERSIGAKOMP	AKEIGVKVST	SMTPRKENIG	SFKSGGV-DR	RTAKLAPSSS	VLKSDERAER
Ptr691617	-----	-----	IRSASQLP	QWSSLKN-SG	SKDAMQKKSD	NPRSLASRLK
Os03g58480.1	-----	-----	PPTPEAAN	TTAASSR-SH	RHSIANPKDA	NRVQCS PKNG
AT1G54460.1	-----	-----	KGKHCAH	RHSVGGCKDE	VKTNSVPRTP	NSSSKDQMRK
Ptr85496	-----	-----	VGKHCAH	RHSIGNH----	-----KDSTA	TSTAKAKVQI
Ptr595399	-----	-----	VGKHCAH	RHSIGS----	-----HKDSTG	ANTAKAKVQI
AT3G04630.1	-----	-----	LKTVSNRN	RHSTGTV-QN	KDDDHNRNKNT	NAAHDS PRVR
Q84ZT9_WAVE-DAMPENED2	-----	-----	-----	-----	-----DA	ITSSGEENS
AT3G23090.1	-----	-----	NRAKGASR	RHETRKT-LV	IS--KEDHDD	ETTRNADQIN
Ptr564928	-----	-----	NRVNSSQP	DKVKRDF-ND	EKNQSQDSSR	EDTSNPFVSQH
Ptr566133	-----	-----	NGVNSSQP	DRVKGAC-GD	GNNQSQGIFR	EDTSNPFVSQH
Os11g36340.1	NMKPHATAR	-----	KPAQRSVT	KIPSQAS-AT	AKTETKPL--	VTKQKTSNTK
AT2G35880.1	---VTKPKD	SSSSTVK	KPITKSQP	KLETQEK-SV	KAKEKKKKVK	KEEAEKRGE
Ptr653406	PTKGAQRNGN	VDNGASK	TPIRKSQP	KHQSRQ--I	TANGMEGKTV	KSKAKLPGAE
AT1G70950.1	-----	-----	RAVTRVSY	KHGFEA-EM	VKVMVSNRKQ	SAAKDSDFQK
Ptr564607	-----	-----	-----	-----	-----	-----
Ptr658783	-----	-----	-----	-----	-----	-----
Os02g10690.1	---GV-KKA	NPSNAVK	KPQRKSLP	KFPSEET-GP	FDSSHLKNT	LSTGNIQESG
Os06g40450.1	---GVK-KV	PAANTVR	KPQRKSLP	KLPSEQT-VT	---EQVENN	TSATDPVREL
Ptr578210	IPIRGLSPA	PK-----	KPQRKSLP	KLPSEKI-NL	YANDEKGLP	KASNEENTTL
Ptr654148	IPIKGLSPA	PK-----	KPQRKSLP	KLPSEKT-KL	SSD-EKTKLP	KASNEENPTL
AT2G25480.1	NP--VVEGSV	PG-ETKK	PPVRKSLP	RFPSEKT-NL	SNGKVAPAKA	VTASTKAKSE
AT4G32330.1	NP--TAKGIM	PTVDLKK	QPVRSKSLP	RFPSQKT-VL	PDGKPAPAKA	AIIPAKVRPE

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Ptr355005	RKEFSKKLEE	IEEKSKTEAF	LGTKSKEERE	AEIKKPRRSL	NFKATPMPGF	YRGQKASKSP
Ptr691617	ASPHENTSPN	IQHE-----	-----	-----	-----	-----
Os03g58480.1	VAAKTRAVKP	VS-----	-----	-----	-----	-----
AT1G54460.1	SKKGTTPKSEE	VHEMFN-----	-----	-----SGHD	GETGENGVGV	VEE-----
Ptr85496	SSQTANGIRK	VTGRSK-----	-----Q	ERVTAEA VPE	KTAEPNTADI	SVQS-----
Ptr595399	SSQTANGIRK	VKDRSK-----	-----Q	DHVATKADPE	KIAGPTNADI	SVQS-----
AT3G04630.1	SGKGKSGFKP	VNESSEEA-----	-----	-----	-----	-----
Q84ZT9_WAVE-DAMPENED2	SQNRQSVVE	-----	-----	-----	-----	-----
AT3G23090.1	HKEMNRNFEP	ETAFAC-----	-----	-----	-----	-----
Ptr564928	SVLKGHAIK	FEDETO-----	-----	-----QAE	EINE-----	-----
Ptr566133	SIPKGHVICK	FEDETR-----	-----E	MEGIDELIPL	EVSGQSFAGI	GLQS-----
Os11g36340.1	PKAPRAKVEQ	FQDNSV-----	EIPPAEPSGP	EGLTVEHGV	DATGPDRATT	FVASNEVPVQ
AT2G35880.1	EKATAVAAP	EEQKPN-----	SNNIQVK	AEIMASEVVV	GG-----	-----
Ptr653406	SQTQKANVEK	VEVNEN-----	NSMKVPV	CENGIETMPE	NNTPQNNGPV	LSSSNPEIML
AT1G70950.1	GNLMAVEMKQ	QIGARRSRN	-----	-----	-----	-----
Ptr564607	-----	-----	-----	-----	-----	-----
Ptr658783	-----	-----	-----	-----	-----	-----
Os02g10690.1	STTPNQQETE	SNNTSIS-----	ESIQDRI	ATGGQELDEQ	IIA-----	-----
Os06g40450.1	IRAQVIPDDQ	FGG-----	-----	-----	-----	-----
Ptr578210	SDQTNEG VSA	NQEQEAVSKN	EASEFLPPKE	EVVVQEEAAT	LMKGPIALAV	-----
Ptr654148	SNQSNEGSSP	TQEQEAVSKN	EESEFLPGKD	ETAVKEEAQA	TLAKDPVALV	V-----
AT2G25480.1	RKKPDKDVDD	LSQSS-----	-----	PVDDNADPE	DSQEQ-APRV	NEDRNESHM
AT4G32330.1	KKKLEKDAET	VNQTSH-----	PTEEEAQ	VTVSSNADVE	DSHETVSPRM	NEDRADKSIE

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Ptr355005	LDKVFAFGFP	FLISVYMLVG	CLFMDTKPDK	IEKPIK
Ptr691617	-----	-----	-----	-----
Os03g58480.1	-----	-----	-----	-----
AT1G54460.1	-----	-----	-----	-----
Ptr85496	-----	-----	-----	-----
Ptr595399	-----	-----	-----	-----
AT3G04630.1	-----	-----	-----	-----
Q84ZT9_WAVE-DAMPENED2	-----	-----	-----	-----
AT3G23090.1	-----	-----	-----	-----
Ptr564928	-----	-----	-----	-----
Ptr566133	-----	-----	-----	-----
Os11g36340.1	G-----	-----	-----	-----
AT2G35880.1	-----	-----	-----	-----
Ptr653406	PHVIVGG-----	-----	-----	-----
AT1G70950.1	-----	-----	-----	-----
Ptr564607	-----	-----	-----	-----
Ptr658783	-----	-----	-----	-----
Os02g10690.1	-----	-----	-----	-----
Os06g40450.1	-----	-----	-----	-----
Ptr578210	-----	-----	-----	-----
Ptr654148	-----	-----	-----	-----
AT2G25480.1	VVEVVAVEP	-----	-----	-----
AT4G32330.1	VSEAVAVEH	-----	-----	-----