

At3g06160
 At3g06220
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 At5g57720
 At1g16640
 At5g60130
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 At3g18960
 At4g01580
 At1g49475
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 At2g24690MMIQFSNNH
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 At3g24650MKS LHVAANAGDLAEDCGILGGD
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 At5g35780

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At1g49480
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At5g66980
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At5g35780

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At3g06220	SYEHLPRRLPKT	ALIGTG	GRVWK	VAMMSKRE	...QVY	LARGWENF
At4g34400	SYDHIPIHRRPKT	VLIRGP	GCSWK	VATEIKDD	...EVL	FSQGWPKF
At3g53310	PFMAFLADPLPKT	VKLQGL	GKLTW	VLKKSISG	...AAY	LTRGWPKF
At5g57720	SYNRYYPNPLPQT	AVLKNPE	GRFWN	VQWTKSQE	...VIIS	LQEGWVKF
At1g16640	GFNEYFPAPFPIT	VDLDDYS	GRSWT	VRMKKRGE	...KVF	LTVGWENF
At5g60130	SFTRFLPKSLPET	VTVRSIS	GNIWK	LELKKCCGDD	TEKFMV	VNGWKRI
At5g60140	SFNCLPKSLPKT	VTVRSIS	GNIWK	LGFKKCGG	...EVER	FVMVSGWKKI
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At3g18960	RFVKLQGSKLSV	VVLETPA	GFKRS	IKLKRIGE	...EIWF	HEGWSEF
At4g01580	RFVKLQGSKLSV	VVLETPA	GYKRS	IKLKRIGE	...EIWF	HEGWSEF
At1g49475	RFVRF	GPKLT	TDNVT	LQTPV	GFKRS	IRIKRIGD
At2g24680	FIKANGINNLGEI	TLLGQNR	MRKWFAY	LLSMSKDG	...SLAL	GSWKKI
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At4g31660	FSKRIQGRNEGR	VELRTD	ASEKTWO	VKIQGR	...LTVG	WKEF
At5g32460	YSNYLEGRQEGNA	AELRSD	ATEITWK	RKIDGRR	...MTKG	WEF
At2g16210	DFSRSFTDKELSR	KMKIRA	QWNSWE	VGISKNPR	...FYFM	EKSGWEKF
At5g09780	DFVINFSDELNSG	DMKFRV	QWNSWK	VKISKNPR	...FYFM	EKSGWEKF
At2g35310	DFVRSFSNNELSR	KMKIKAR	WSSWE	VEICKNPR	...FYFM	EKSGWEKF
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At5g18000	HLIRISIDKSSSF	KMVL	RPWGRSWQ	VKISKPNP	...FHYM	EDRGWNQF
At5g25465	EFVRRTRG	AFEHR	VVFS	VRWNSWO	WL	LEREEK
At5g25475	DFVRRTRG	AFEHR	VVFS	VRWNSWO	WL	LEREKN
At1g49480	...PESTEPVN	KGYGG	STAIQSF	RK	ESKAAE	...TPKV
At3g18990	YPSPLPESTVPAN	KGY	ASSAI	QTLF	TPGV	KAAEPT
At5g66980	AFIDMLEKPLPKE	AF	LVDEI	GR	LWC	VETKT
At4g33280	KFSTHCKRKLPI	VTLK	SPS	GV	TYN	VGVE
At3g19185	SSSSKPSPAKPR	TMRIP	VDFSEVRR	SR	AKEL	...DPYS
At5g58280	QLLQQRNHKPIDK	ALLATA	EPRSSR	VRTVI	SSYR	...DDVV
At3g24650	PVNAIVSSASSSS	AA	SSST	SAAS	VA	LRSD
At1g28300	SYPVEQMAAVMNP	QPVY	LS	ECYP	QIP	TLTG
At5g35780	EEDSDKSFYRFP	RKI	IRSS	LV	KRRY	TQ

110

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At5g57720	DGSRSFV	RIH	RNGLPL
At1g16640	DRDRTFY	VIIY	GHNMCS
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At3g46770	DGYGVFH	CV	YEGSMCK
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At4g01580	KKNSSFR	V	IFNASACET
At1g49475	EGDSCFR	V	IFDVSASEI
At2g24680	ETAHKT	SQCVGEDDAL	W	KVGL	EMVLNS
At2g24690	TTPV	LSL	CFE	EYNTD	TRVGE
At4g00260	QESDL	LAFH	V	TL
At4g31660	HEGSL	V	FH	V
At5g32460	HEGNL	F	H	V
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At5g09780	KGQMS	F	T	V
At2g35310	KGNM	R	F	V
At3g17010	RGNM	V	F	H
At5g18000	EANM	C	F	N
At5g25465	DDKM	F	L	E
At5g25475	DETM	L	E	V
At1g49480	SENRS	K	F	Y
At3g18990	PENRS	K	F	Y
At5g66980	DGDS	R	F	S
At4g33280	HGV	S	E	F
At3g19185	VYAS	D	D	A
At5g58280	PL	H	E	C
At3g24650	GCGEGGGDCID	MMET	F	G	M
At1g28300	KNAM	M	R	S
At5g35780	MSI	E	T	P

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At2g24690 TDGAKWMASLLLEKKG.RMSLGKGWKDFAKANGLKTGDSITLPIWEDRTPVLSI
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At3g24650
At1g28300
At5g35780

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At3g06220	ETRAVVHVEEISDE	SESDNDSL.....
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At1g16640	EYRDFPQVAVEVDDY
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At5g60140	RLKRSSEQSKDIKV	GSDCEEESQA.....
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At4g01580	NYPLDAVHIIDSDDD
At1g49475	EYPLDDTD.DNREE
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At5g25475	DVPLGVEPETEPFHP.TPKK	
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At3g18990	AEERERAINAAKT	
At5g66980	VVSTDRSRVSLDEEPPDDIFTKPDRMRDCDCGQSNRKRKRDSVNE	
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At5g58280	AFKAAEKFORSLKSP	HPYFV
At3g24650	FLPLLESPPSWPPPQSGMPHQFPMPPTSQYNQFGDPTGFNGYMNMP	
At1g28300	LVDSKRQLMMLNLKNNVQISDKKDSYQQSTFDNKKLRVLCCELKN	
At5g35780	RLIFERTLFNSDVKS	

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At5g57720	DPHMEEGDITDENMIVSLSLGSSDEVGDDDDDD			YDTAICDEVNK
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At5g60140	SDDVIVLNSDDSDSDNDYSVEDDVAEDDDGLEDEVDVEAEDG.YDAKDSGLEDEDDDEAE				
At3g46770	.EDVLVGNEES			TKGLEES
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At4g01580					
At1g49475					
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At5g25475HKETTPASSFASGSGCSANGG				
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At3g19185	..MLQSHVTGGFWLGLPLPCKAHMPKRDVIMT				
At5g58280	KSMVRSHVYSFVWGLPLSRFCADNFPEETMEIELE				
At3g24650	YQYYPVAGQMRDQRLRLRLCSSLATKEARKRMARORRFLSHHHRRHNNNNNNNNNNNQNGTQIGETCAAVA				
At1g28300	SDVGSGLGRIVLPKRDAEANLPKLSKKEGIVVQMRDVFMSQS				
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210 220

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230 240 250 260

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 At4g00260 .RRKSLLSENRFVTLTLPYTIQSSLLNENLLCE.....SMFQRLPVPFTRMNGIN..EETKM
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At2g24690	TLLG	RRGGMKWFAYLLSG	DT	VVVGNGWKGFCEAN	GVMLGETFVLEFIP	KDDTNHVFKFYTK
At4g00260	TLLD	KHGKWLTTLRFE	DDKRRKRLRMVGG	WQGFIOANDVKANES	IMLELIWEEETS	CVLKFCSKVKLEIK
At4g31660	TLLD	KHGVEWPNLVMY	KGN	TQTRFSGGLKEFF	KANGIEACKSFVLE	L
At5g32460	VL	MNKEGRTWILSLK	YSKYS	GRFRI TRGWKSF	CEANGQKPGCTFL	LKLHLSMTRFDQD
At2g16210	VFKI	IHPNGKKSNNVV	YL	ERFGAFSGGWRR	VVKEYPLAVGDT	CKFTFKPKKELLV
At5g09780	RVKI	IHPDGEKTKWV	VVVKERQIFSGG	WKRLCKEYPVV	FVGDTCFKFTLIT	PLELLLVSKP
At2g35310	VM	CGLRGVRDEIKLL	CWMERFSGRIS	SSSWRHLLQVFI	HQTTTRADSLCL	KTLRGDSLNSDDE
At3g17010	IFTI	RHPNGG . SWK	VLCVREIRTI	FISGGYSKLARE	FPLMVGDCKTF	KLKPFVLLTSKKN
At5g18000	MF	KIHYPRGKKS	WDVTYVVDV	QSRFSGGWSRLA	KELGLLVGDVCT	FKLIKPEMRVKSKE
At5g25465	PM	HYLLPGDKIN .	GSTKIYGGGS	APCFNGWVDL	CRKYNLKTGDS	SMVCELERSGEL
At5g25475	TI	TYLLPGEKKEE	GENRIYNG	KPCFSGWSVLC	RRHNLNIGDSV	VCELERSGGVVT
At1g49480	SG	FIKLQLGKQWP	VRCVLYKAGRA	KFSGGWYEF	TLENNLGE	GDVCFELLRTR
At3g18990	SG	FIKVQLAEKQ	WPVRCVLYKAGRA	KFSGGWYEF	TLENNLGE	GDVCFELLRTR
At5g66980	CDES	GKKWPLKILN	HRGFKFSHES	WLFCFKSHEMIL	TNKLCLFEFIVP
At4g33280	EV	VMQVDQTKWEM	KFNIFGARG	SGGISTGWKKF	VQDNNLR	REGDVCFE
At3g19185	H	LIARTTFKVYI	IRVNDDANN	DSGDNEVND	DDSDGNEED	RDNNDNESNE
At5g58280	EL	VEPKKFKIY	VFKGNENAN	LTSARKRGR	ATTPSEEEEE	EEDKDVEESG
At3g24650	DF	VKTNGLQEG	DFIVISDV	KCGKYLIRG	VKNVQPSG	QKPEAPPSSA
At1g28300	RERN	HYEEAML	DI PRDEE	EASIAMLIG	NLDNHYP	IPNDLMDLT
At5g35780	SK	MWGLRFKI	WAMEKDS	GHGTLNYI	LNWGW	NDVVKGNL

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At3g06160	AAA	ST
At3g06220	
At4g34400	KDL	
At3g53310	DA	
At5g57720	
At1g16640	
At5g60130	
At5g60140	
At3g46770	
At3g18960	
At4g01580	
At1g49475	L	
At2g24680	FTSLP	
At2g24690	
At4g00260	
At4g31660	
At5g32460	
At2g16210	
At5g09780	
At2g35310	
At3g17010	MID	
At5g18000	
At5g25465	
At5g25475	
At1g49480	
At3g18990	
At5g66980	TTMTKNNYQVIDMQP	
At4g33280	RTNNVDPVYTI SE . .	
At3g19185	RK	
At5g58280	A	
At3g24650	ASPTSQTVK	
At1g28300	QVSFNDFEWW	
At5g35780	