

BjTCP19 .....MESNL  
 AtTCP19 .....MESNH  
 BjTCP9a .....MATIKKH  
 BjTCP9c .....MATIKTH  
 BjTCP9b .....MATIKHH  
 BjTCP9d .....MATIKKH  
 AtTCP9 .....MATIQKL  
 AtTCP11 .....  
 BjTCP21b .....  
 BjTCP21d .....  
 BjTCP21a .....  
 BjTCP21e .....  
 BjTCP21c .....  
 BjTCP21f .....  
 AtTCP21 .....  
 BjTCP7a .....  
 BjTCP7e .....  
 BjTCP7b .....  
 BjTCP7d .....  
 BjTCP7c .....  
 AtTCP7 .....  
 BjTCP22a .....  
 BjTCP22c .....  
 AtTCP22 .....  
 BjTCP22b .....  
 BjTCP22d .....  
 AtTCP23 .....  
 BjTCP8a .....  
 BjTCP8b .....  
 AtTCP8 .....  
 BjTCP15a .....  
 BjTCP15d .....  
 BjTCP15c .....  
 BjTCP15e .....  
 BjTCP15b .....  
 BjTCP15f .....  
 AtTCP15 .....  
 BjTCP14a .....  
 BjTCP14b .....MDGGDNVGGGGG  
 AtTCP14 .....MQKPTSSILNVIMDGGDSVGGG  
 BjTCP20a .....  
 BjTCP20c .....  
 AtTCP20 .....  
 BjTCP20b .....  
 BjTCP6 .....  
 AtTCP6 .....  
 BjTCP1a .....MSSSNNDYNGG.NSGVYPLSLYLSSLPGHOGIIRNPYN.....  
 BjTCP1e .....SNNDYNGG.NNGVYPLSLYLSSLPGQGGIICNPYN.....  
 BjTCP1b .....MSSSNNDYING.NNGVYPLSLYLSPLAGHODIIRNPYN.....  
 BjTCP1c .....MSSFNNDYNGG.NNGVYPLSLYLSPLAGHODIIRNPYN.....  
 BjTCP1d .....MSSYNNYNGSNGVYPLSLYLSSLSGHODIIRNPYN.....  
 AtTCP1 .....MSSSTNDYNDGNNVYPLSLYLSSLSGHODIIRNPYN.....  
 BjTCP12a .....MFPSIDTNGYDLDFPFNLHEATMLPSFTTHILSPSS.....  
 BjTCP12b .....MFPSIDTNGYDLDFPFNLHEATMLPSFTTHIQCPSS.....  
 AtTCP12 .....MFPSLDTNGYDLDFPFIPHQTTFPSFTTHIQSPNS.....  
 BjTCP18a .....MNNRSFSTTTTISEDYMLFPYNDHYSSQPLLFPNCPSSINDLLIHSNSNISN.....  
 BjTCP18d .....MNDNKTFSTTTTINDDYMLFPYDDHYSSQPLLFPSPCSSINDLLIHSNSNTNN.....  
 BjTCP18b .....MNNNKTFSTTTSTINEDYMSFPYNDNYCSQPLLFPSPSSINDLLIHSNSNTSNN.....  
 BjTCP18c .....MNNNKTFSTTTSTINEDYMSFPYNDNYCSQPLLFPSPSSINDLLIHSNSNTSNN.....  
 AtTCP18 .....MNNNIFSTTTTINDDYMLFPYNDHYSSQPLLFPSPSSINDLLIHSTNTSNN.....  
 BjTCP17a .....  
 BjTCP17b .....MRTN.....  
 AtTCP17 .....  
 BjTCP5c .....MRSREYDDEETQAKQERDHN.HNNQVNLNN.....  
 BjTCP5a .....M.....  
 BjTCP5b .....MRSKECDEEEIQAKQEGDHDNDHNNHQNVLN.....  
 AtTCP5 .....MRSGECEDEEIQAKQERDQ.NQNHNVLN.....  
 BjTCP13a .....MDTGPWKDNDVSGQTRTR.HEEAV.....  
 BjTCP13c .....MDTVHWKDTNDVSGQTRTR.HEEAV.....  
 BjTCP13b .....MTVQTQELNITSIMNTGPWRDANDVSGGTRRRNGEVEEDSEEA.....  
 AtTCP13 .....MNI VSWKDANDEVAGGATRRREVEKEDQE.....  
 BjTCP24a .....MEVDD.....  
 BjTCP24b .....MEVDD.....  
 BjTCP24c .....MEDDDHTETQOOOQOOOQOOO.....  
 BjTCP24d .....EKHESSVSMEEDDDI.....  
 AtTCP24 .....MEVDEDI.....  
 BjTCP2a .....  
 BjTCP2d .....  
 BjTCP2b .....  
 BjTCP2c .....  
 AtTCP2 .....  
 BjTCP3 .....  
 AtTCP3 .....MAPDN.....  
 AtTCP4 .....M.....  
 AtTCP16 .....  
 AtTCP10 .....

BjTCP19 EG.....KEAMAHLSDPDPETNRGMLLKQEDDDPNKQ.....  
 AtTCP19 EGNA.....IQVIDQVTMTHLSDPNPKTKPGMMLMKQEDG.....  
 BjTCP9a EAER.....LRAVDLSIIDGVRVSVETSKPFQVANTVSLDPKAEPL.....  
 BjTCP9c EAER.....LRAVDPSLINGVRSVETSKPSEVANTVSLDPKAEPS.....  
 BjTCP9b EDER.....LRAVDLTSKP.....FEVNN.AVSLPEKTEPSLESS.....  
 BjTCP9d EGER.....LRAVDLSVQT.....FEVNNNAVSLPEKTEPSLESS.....  
 AtTCP9 EEVAGKQDQLRAVDLTIINGVRNVETSRPFQVNPTVSLPEKAEP.....  
 AtTCP11 .....MIFQNVCRNESNFNAIASERSQTO.....  
 BjTCP21b .....MENSDDGA.....  
 BjTCP21d .....MENNDGA.....  
 BjTCP21a .....MTSNDGS.....  
 BjTCP21e .....MTSNDGGG.....  
 BjTCP21c .....MSNDDGT.....  
 BjTCP21f .....MSNDDGT.....  
 AtTCP21 .....MADNDGA.....  
 BjTCP7a .....MSNNDGVMISNGSLIEH.....  
 BjTCP7e .....MSNNNDGVMISNGSLMEH.....  
 BjTCP7b .....  
 BjTCP7d .....  
 BjTCP7c .....  
 AtTCP7 .....MSINNNNNNNNN.....  
 BjTCP22a .....MDQNSHDR.PTAAEAGLQLNSTENPSPGRSVHFAGG.....  
 BjTCP22c .....MDQNSHDRPAAAEAGLQLNSTENPSPGRSVFPAS.....  
 AtTCP22 .....MNQNSSVAEATLQLNSGKPKSPGSIPIFISSG.....  
 BjTCP22b .....METRTAAEEASLQLNSTENPSPGG.....  
 BjTCP22d .....METRTAAEEASLQLNSTENQSPGG.....  
 AtTCP23 .....MESHNNNQSNNTTGSAAHLVPSMGPISGSVS.....  
 BjTCP8a .....MDLSDD.....GAAARGGSRHLVDPVSLVPRSTP.....  
 BjTCP8b .....MDLSDD.....GAAARGGSRHLVDPVSLVPRSTP.....  
 AtTCP8 .....MDLSDIRNNNDTAAVATGGGARQLVDASLSVPRSTP.....  
 BjTCP15a .....MDPDPDHNPNNHRPNFPLQLLDSSSSSSTSLAIVPSASSS.....  
 BjTCP15d .....MDHNPNNHRPNFPLQLLDSS.....TSFATIPVPSASSS.....  
 BjTCP15c .....MDPDPDHNPNNHRPNFPLQLLDSSSSSSTSLAIVPSASSS.....  
 BjTCP15e .....MDPDPDHNPNNHRPNFPLQLLDSSSSSSTSLAIVPSASSS.....  
 BjTCP15b .....MDPDPDHNPNNHRPNFPLQLLDSSSSSSTSLAIVPSASSS.....  
 BjTCP15f .....MDPDPDHNPNNHRPNFPLQLLDSSSSSSTSLAIVPSASSS.....  
 AtTCP15 .....MDPDPDHNPNNHRPNFPLQLLDSSSSTSSSSTSLAIVSSTTS.....  
 BjTCP14a .....  
 BjTCP14b GDDHNNHLLHHHRPTFFPQLLGKRDPPDNNQQQQPSPSSSSSLFSLHQHQ.....  
 AtTCP14 GDDHNNHLLHHHRPTFFPQLLGKHDPDNNHQQQPSPSSSSSLFSLHQHQQL.....  
 BjTCP20a .....MDPKNPNRRHQVNFPLNPPPRNQSLGDASKDDK.....  
 BjTCP20c .....MDPKNPNRRHQVNFPLNPPPRNQSLGDASKD.....  
 AtTCP20 .....MDPKNPNRRHQVNFPLNPPPRNQSLGDASKD.....  
 BjTCP20b .....MDPKNPNRRHQVNFPLNPPPRNQSLGDASKD.....  
 BjTCP6 .....PNNLNPSE.....  
 AtTCP6 .....MVMPEKKNQNLPSFLNPSRQNDNDK.....  
 BjTCP1a .....HQSTASPGQMVSAVPESELIDYMSFNNSAVNQK.....  
 BjTCP1e .....HQSTASPGQMVSAVPESELIDYMSFNNSAVNQK.....  
 BjTCP1b .....HQPTSPSGQMVSAVPESELINYMFSFNNSAVNQK.....  
 BjTCP1c .....HQPTSPSGQMVSAVPESELINYMFSFNNSAVNQK.....  
 BjTCP1d .....HQSTAYPGQMVSAVPESELINYMFSFNNSAVNQK.....  
 AtTCP1 .....HQKASPGHVMVAVPESELIDYMAFKSNNVNVNQ.....  
 BjTCP12a .....HHHYPPFSS.....SDFLD.....ESVLISQFLLOQQ.....ADVDSF.....  
 BjTCP12b .....HHHYPLPSFPFSSDFLD.....ESVLISQFLLOQQ.....DDDNPS.....  
 AtTCP12 .....HHHYSPPSFPFSSDFLESFDESFLINQFLLOQQDVAANVVESE.....  
 BjTCP18a .....PLD.....HHYQFLQAPSSFSQFVFVDFALVASFLPONNGHNDNQITITNDHNNHHHH.....  
 BjTCP18d .....LLDHHHHHHHHQFLQTPSCFSHFESVQDFALLASFLPONNGHNDNQITIN.....NSHHH.....  
 BjTCP18b .....HLD.....HHHQFLQAPSSFSQFVFVDFALLASFLPONIAHNDNQITIN.....DHH.....  
 BjTCP18c .....HLD.....HHHQFLQAPSSFSQFVFVDFALLASFLPONIGHNDNQITIN.....DHH.....  
 AtTCP18 .....HLD.....HHHQFLQAPSSFSQFVFVDFALLASFLPONIGHNDNQITIN.....DHH.....  
 BjTCP17a .....BjTCP17b .....MGIKQEGDNQYQATSLSSLRQ.....  
 AtTCP17 .....SMGIKQEGDNLYQTTSLSSLRQ.....  
 BjTCP5c .....MGPKEGDNLYQTTSLSSLRQ.....  
 BjTCP5a .....HVPAAESASPAPASRQWASAFR.....  
 BjTCP5b .....NMLQQQQQPVSRRQWTSAFR.....  
 AtTCP5 .....HMLQQQQPSSVSSRRQWTSAFR.....  
 BjTCP13a .....EAVATTKRPATISSSSSWMKSK.....  
 BjTCP13c .....VAVATTKRPASTSSSSSWMKSK.....  
 AtTCP13 .....VVVAVATSGKPKVKKKPTSSSSSSSWMKSK.....  
 BjTCP24a .....ETEVRATSGKPKVKKKPTSSSSSSSWMKSK.....  
 BjTCP24b .....DIDAQQQTSRKLQRISDNDNRNEMRDWNNP.....  
 BjTCP24c .....DIDAQQQTSRKLQRISDNDNRNEMRDWNNP.....  
 BjTCP24d .....QOQQQQQTSRKLQRISDNDNRNEMRDWNNP.....  
 AtTCP24 .....ETQQEQQSRKLQRISDNDNRNEMRDWNNP.....  
 BjTCP2a .....ELQKHQEQSRKLQRIFSE.DNTGLMRNWNPN.....  
 BjTCP2d .....  
 BjTCP2b .....  
 BjTCP2c .....  
 AtTCP2 .....MIGDLMKNNNGDVVDNEVNNRSLRWHHN.....  
 BjTCP3 .....  
 AtTCP3 .....DHFLDSPSPPLLEMRHHQSATENGGGCGEIV.....  
 AtTCP4 .....SDDQFHPPPPSSMRHRSTSDAADGGGCGEIV.....  
 AtTCP16 .....  
 AtTCP10 .....MGLKGYSVGEGGGEIVEVQGG.....

BjTCP19 .....QEVGFLOQVPTAPKR.....PFSKDRH  
AtTCP19 .....YLQPVKTKPAPKR.....PTSKDRH  
BjTCP9a .....LEVPSISMALAPPSSSIGPPLKR.ASTKDRH  
BjTCP9c .....LEVPSISMALAPPSSSIGPPLKR.ASTKDRH  
BjTCP9b .....LQVPSTSMALAPPSSSIGPPLKR.ASTKDRH  
BjTCP9d .....PSLSVSMALAPPSSSSTMRPPLKR.ASTKDRH  
AtTCP9 .....VMPFSMALAPPSSSTG.PPLKR.ASTKDRH  
AtTCP11 .....FGVSKSSSSGGGICIS.....ARTKDRH  
BjTCP21b .....MTNGVIVEHTSATNNKGPLNAVKKPPTKDRH  
BjTCP21d .....MTNGVIVEHTSATNNKGPLNAVKKPPTKDRH  
BjTCP21a .....VPNGVIVEHLS.AVNKGTLNAVKKPPTKDRH  
BjTCP21e .....VPNGVIVEHTSATNNKGPLNAVKKPPTKDRH  
BjTCP21c .....VTN.GAIVEHTSAANKGTLNAVKKPPTKDRH  
BjTCP21f .....VTTNGAIVEHLS.....KGTNAVKKPPTKDRH  
AtTCP21 .....VSNGIIVEHTSATNNKGPLNAVKKPPTKDRH  
BjTCP7a .....QRQQQQQQQNLKQSSDGDALVVKKPPAKDRH  
BjTCP7e .....QRQQQQQQQNLKQSSDGDALVVKKPPAKDRH  
BjTCP7b .....MSNNNDGALVVKKPPAKDRH  
BjTCP7d .....MSNSNDGALAVKKPPAKDRH  
BjTCP7c .....MSNSNDGALAVKKPPAKDRH  
AtTCP7 .....NNDGLMISSNGALIEQQPSVVVKKPPTKDRH  
BjTCP22a .....AT.....SSSTSTSSGTALAVVKKPAVKK.PSKDRH  
BjTCP22c .....SSSTSTSSGTALAVVKKPAVKK.PSKDRH  
AtTCP22 .....QHGN.....ISTATSSTSSGTALAVVKKPAVKK.PSKDRH  
BjTCP22b .....GSPV.....STALAVVKKPAVKK.PSKDRH  
BjTCP22d .....GSPV.....STALAVVKKPAVKK.PSKDRH  
AtTCP23 .....LTTTAPNSTTTTVAAKTPAKRPSKDRH  
BjTCP8a .....PEDPTTSSP.ATAAATTSVGVVTKRSTKDRH  
BjTCP8b .....PEDPTTSSP.ATAAATTSVGVVTKRSTKDRH  
AtTCP8 .....PEDSTLATTSTATATTT.....KRSTKDRH  
BjTCP15a .....EPNSEPNALS.KTPPPVRTSTKDRH  
BjTCP15d .....EPNSDPNALS.KKPPPVRTSTKDRH  
BjTCP15c .....EPNSDPNALS.KKPPPVRTSTKDRH  
BjTCP15e .....EPNSDPNALS.KKPPPVRTSTKDRH  
BjTCP15b .....EPNSDPNALS.KKPPPVRTSTKDRH  
BjTCP15f .....EPNSDPNALS.KKPPPVRTSTKDRH  
AtTCP15 .....EPNSEP.....KKPPPVRTSTKDRH  
BjTCP14a .....QLS..OTQTOPQOKPQPKDLQVTOEETAVAVAKKPPPKRSTKDRH  
BjTCP14b .....SOSQOSQOSQKSPQTTQKELLQTOEESAVVAKKPPPKRSTKDRH  
AtTCP14 .....HHSKPAEVKDFQIVVAS.....DKEPNKKP.QQNQLGPKRSSNKRDRH  
BjTCP20a .....HHSKPAEVKDFQIVVAS.....DSSSKQQNQNLGPKRSSNKRDRH  
BjTCP20c .....NRKPTTEIKDFQIVVAS.....DKEPNKKSNQNQLGPKRSSNKRDRH  
AtTCP20 .....LHNKPAEVKDFQIVVAS.....DSSSKQQNQNLGPKRSSNKRDRH  
BjTCP20b .....TETEVEKVLNNTVEGKRRKGGRE.....IQTKSRKDRH  
BjTCP6 .....KRKQTEVKGFDIVVGEKRRKGGRE.....IQTKSRKDRH  
AtTCP6 .....GFEIPEVRSREIKKAVKKDRHSKVIH  
BjTCP1a .....GFEIPEVRSREIKKAVKKDRHSKVIH  
BjTCP1e .....GFEIPEVRSREIKKAVKKDRHSKVIH  
BjTCP1b .....GFEIPEVRSREIKKAVKKDRHSKVIH  
BjTCP1c .....GFEIPEVRSREIKKAVKKDRHSKVIH  
BjTCP1d .....GFEIPEVRSREIKKAVKKDRHSKVIH  
AtTCP1 .....GFEIPEVRSREIKKAVKKDRHSKVIH  
BjTCP12a .....RKLRRLEQEKKNEEWDGTTSEKVSRRRTGKKRDRHSKVIH  
BjTCP12b .....RKLCKELEKKEKKEEWDGTTSEKVSRRRTGKKRDRHSKVIH  
AtTCP12 .....WKFKKLELKKKNEKVDGTTSEKVSRRRTGKKRDRHSKVIH  
BjTCP18a .....HPSLLPLNNTIGESQ.....LVEPSETITTHIEDSQRISTSDPKMKNKAKKPSRTDRHSKVIH  
BjTCP18d .....LPSLLPLNNTIGESQ.....LVEPSETITTHIEDSQRISTSDPKMKNKAKKPSRTDRHSKVIH  
BjTCP18b .....HPSLLPLNNTIGESQ.....LVEPSETITTHIEDSQRISTSDPKMKNKAKKPSRTDRHSKVIH  
BjTCP18c .....HPSLLPLNNTIGESQ.....LVEPSETITTHIEDSQRISTSDPKMKNKAKKPSRTDRHSKVIH  
AtTCP18 .....PSLHFPNNTIVEQP.....TEPSETINLIEDSQRISTSDPKMKNKAKKPSRTDRHSKVIH  
BjTCP17a .....NPRIVRASRIFFGGKDRHSKVIH  
BjTCP17b .....NPRIVRASRIFFGGKDRHSKVIH  
AtTCP17 .....NPRIVRASRIFFGGKDRHSKVIH  
BjTCP5c .....NPRIVRSRAFGGKDRHSKVIH  
BjTCP5a .....NPRIVRSRAFGGKDRHSKVIH  
BjTCP5b .....NPRIVRSRAFGGKDRHSKVIH  
AtTCP5 .....NPRIVRSRAFGGKDRHSKVIH  
BjTCP13a .....DPRIVRSRAFGGKDRHSKVIH  
BjTCP13c .....DPRIVRSRAFGGKDRHSKVIH  
BjTCP13b .....DPRIVRSRAFGGKDRHSKVIH  
AtTCP13 .....DPRIVRSRAFGGKDRHSKVIH  
BjTCP24a .....SSRIIRVSRASGGKDRHSKVIH  
BjTCP24b .....SSRIIRVSRASGGKDRHSKVIH  
BjTCP24c .....SSRIIRVSRASGGKDRHSKVIH  
BjTCP24d .....SSRIIRVSRASGGKDRHSKVIH  
AtTCP24 .....SSRIIRVSRASGGKDRHSKVIH  
BjTCP2a .....SSRIIRVSRASGGKDRHSKVIH  
BjTCP2d .....SSRIIRVSRASGGKDRHSKVIH  
BjTCP2b .....SSRIIRVSRASGGKDRHSKVIH  
BjTCP2c .....SSRIIRVSRASGGKDRHSKVIH  
AtTCP2 .....SSRIIRVSRASGGKDRHSKVIH  
BjTCP3 .....EVQGGHIVRSTGRKDRHSKVIH  
AtTCP3 .....EVQGGHIVRSTGRKDRHSKVIH  
AtTCP4 .....MDSKNGINNSQKARRTPKDRH  
AtTCP16 .....HIIRATGRKDRHSKVIH  
AtTCP10 .....HIIRATGRKDRHSKVIH

	6Q	7Q	8Q	9Q	10Q			
BjTCP19	KVEGR	RRIRMPAGC	AARIF	QITRE	LGHKSDG	TRWLL	E	
AtTCP19	KVEGR	RRIRMPAGC	AARVF	QITRE	LGHKSDG	TRWLL	E	
BjTCP9a	KVEGR	RRIRMPATC	AARIF	QITRE	LGHKSDG	TRWLL	E	
BjTCP9c	KVEGR	RRIRMPATC	AARIF	QITRE	LGHKSDG	TRWLL	E	
BjTCP9b	KVEGR	RRIRMPATC	AARIF	QITRE	LGHKSDG	TRWLL	E	
BjTCP9d	KVEGR	RRIRMPATC	AARIF	QITRE	LGHKSDG	TRWLL	E	
AtTCP9	KVEGR	RRIRMPATC	AARIF	QITRE	LGHKSDG	TRWLL	E	
AtTCP11	KVNGR	SSRVTMPALA	AARIF	QITRE	LGHKTEGE	TEWLL	S	
BjTCP21b	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP21d	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP21a	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP21e	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP21c	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP21f	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
AtTCP21	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP7a	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP7e	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP7b	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP7d	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP7c	.....	.....MPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
AtTCP7	SKVDGR	RRIRMPIIC	AARVF	QITRE	LGHKSDG	TEWLL	R	
BjTCP22a	TKVDGR	RRIRMPALC	AARVL	QITRE	LGHKSDG	TEWLL	Q	
BjTCP22c	TKVDGR	RRIRMPALC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
AtTCP22	TKVDGR	RRIRMPAMC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP22b	TKVDGR	RRIRMPAVC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP22d	TKVDGR	RRIRMPAVC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
AtTCP23	TKVDGR	RRIRMPAIC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP8a	TKVDGR	RRIRMPALC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP8b	TKVDGR	RRIRMPALC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
AtTCP8	TKVDGR	RRIRMPALC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP15a	TKVEGR	RRIRMPAMC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP15d	TKVDGR	RRIRMPAMC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP15c	TKVEGR	RRIRMPAMC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP15e	TKVEGR	RRIRMPAMC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP15b	TKVEGR	RRIRMPAMC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP15f	TKVEGR	RRIRMPAMC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
AtTCP15	TKVEGR	RRIRMPAMC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP14a	.....	.....MPALC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP14b	TKVDGR	RRIRMPALC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
AtTCP14	TKVDGR	RRIRMPALC	AARVF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP20a	TKVEGR	RRIRMPALC	AARIF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP20c	TKVEGR	RRIRMPALC	AARIF	QITRE	LGHKSDG	TEWLL	Q	
AtTCP20	TKVEGR	RRIRMPALC	AARIF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP20b	.....	.....	.....	.....	.....	.....	.....	
BjTCP6	TKVEGR	RRVRLPPLC	AARIF	QITRE	LGHKTDGE	TEWLL	R	
AtTCP6	TKVEGR	RRVRLPPLC	AARIF	QITRE	LGHKSDG	TEWLL	Q	
BjTCP1e	TAQGLR	RRVRLSIGV	AROF	FDI	QDM	LGFDKASE	LDWLL	K
BjTCP1b	TAQGLR	RRVRLSIGV	AROF	FDI	QDM	LGFDKASE	LDWLL	K
BjTCP1c	TAQGLR	RRVRLSIGV	AROF	FDI	QDM	LGFDKASE	LDWLL	K
BjTCP1d	TAQGLR	RRVRLSIGV	AROF	FDI	QDM	LGFDKASE	LDWLL	K
AtTCP1	TAQGLR	RRVRLSIGV	AROF	FDI	QDM	LGFDKASE	LDWLL	K
BjTCP12a	TAQGPLR	RRMRLSLQI	ARKF	FDI	QDM	LGFDKASE	TEWLL	S
BjTCP12b	TAQGPLR	RRMRLSLQI	ARKF	FDI	QDM	LGFDKASE	TEWLL	S
AtTCP12	TAQGPLR	RRMRLSLQI	ARKF	FDI	QDM	LGFDKASE	TEWLL	S
BjTCP18a	AKGTR	RRMRLSLDV	AKEL	FGI	QDM	LGFDKASE	TEWLL	T
BjTCP18d	AKGTR	RRMRLSLDV	AKEL	FGI	QDM	LGFDKASE	TEWLL	T
BjTCP18b	AKGTR	RRMRLSLDV	AKEL	FGI	QDM	LGFDKASE	TEWLL	T
BjTCP18c	AKGTR	RRMRLSLDV	AKEL	FGI	QDM	LGFDKASE	TEWLL	T
AtTCP18	AKGTR	RRMRLSLDV	AKEL	FGI	QDM	LGFDKASE	TEWLL	T
BjTCP17a	VRGLR	RRIRLSATT	AIQL	YDI	QDR	LGLSOPSKV	IDWLL	E
BjTCP17b	VRGLR	RRIRLSATT	AIQL	YDI	QDR	LGLSOPSKV	IDWLL	E
AtTCP17	VRGLR	RRIRLSVMT	AIQV	YDI	QDR	LGLSOPSKV	IDWLL	E
BjTCP5c	VRGLR	RRIRLSVPT	AIQL	YDI	QDR	LGLSOPSKV	IDWLL	E
BjTCP5a	VRGLR	RRIRLSVPT	AIQV	YDI	QDR	LGLSOPSKV	IDWLL	E
BjTCP5b	VRGLR	RRIRLSVPT	AIQL	YDI	QDR	LGLSOPSKV	IDWLL	E
AtTCP5	VRGLR	RRIRLSVPT	AIQL	YDI	QDR	LGLSOPSKV	IDWLL	E
BjTCP13a	LRGLR	RRVRLSVPT	AIQL	YDI	QDR	LGLDOPSKAV	DWLL	N
BjTCP13c	LRGLR	RRVRLSVPT	AIQL	YDI	QDR	LGLDOPSKAV	DWLL	N
BjTCP13b	LRGLR	RRVRLSVPT	AIQL	YDI	QDR	LGLDOPSKAV	DWLL	N
AtTCP13	LRGLR	RRVRLSVPT	AIQL	YDI	QDR	LGLDOPSKAV	DWLL	N
BjTCP24a	SKGLR	RRIRLSVAT	AIQF	YDI	QDR	LGFDPQSKAV	EWLL	N
BjTCP24b	SKGLR	RRIRLSVAT	AIQF	YDI	QDR	LGFDPQSKAV	EWLL	N
BjTCP24c	SKGLR	RRIRLSVAT	AIQF	YDI	QDR	LGFDPQSKAV	EWLL	N
BjTCP24d	SKGLR	RRIRLSVAT	AIQF	YDI	QDR	LGFDPQSKAV	EWLL	N
AtTCP24	SKGLR	RRIRLSVAT	AIQF	YDI	QDR	LGFDPQSKAV	EWLL	N
BjTCP2a	.....	.....	.....	.....	.....	.....	.....	
BjTCP2d	.....	.....	.....	.....	.....	.....	.....	
BjTCP2b	.....	.....	.....	.....	.....	.....	.....	
BjTCP2c	.....	.....	.....	.....	.....	.....	.....	
AtTCP2	TKSGPR	RRVRLSVST	ALQF	YDI	QDR	LGYDOPSKAV	EWLL	KAAEDSISELPSLNTHFPT
BjTCP3	.....	.....	.....	.....	.....	.....	.....	
AtTCP3	TKAGPR	RRVRLSAPT	AIQF	YDV	QDR	LGFDRPSKAV	DWLL	IT.....KAKS
AtTCP4	TKAGPR	RRVRLSAHT	AIQF	YDV	QDR	LGFDRPSKAV	DWLL	IT.....KAKS
AtTCP16	LKIGGR	RRIRIPPSV	APQL	FRL	TKE	LGFKTDGE	TVSWLL	QN.....
AtTCP10	TKSGPR	RRVRLSAHT	AIQF	YDV	QDR	LGYDRPSKAV	DWLL	IT.....K

	110	120	130	140
BjTCP19	SEPA	TEATGTGTPAIAVSVNGALKIPTDSTPQFESDGGSG		
AtTCP19	REPA	TEATGTGTPAIAVSVNGTLKIPITSSPVLNDGGRDGD		
BjTCP9a	REPA	IAATGTGTPAIAMSVNGTLKIPITTTNADADVAENPAK		
BjTCP9c	REPS	IAATGTGTPAIAMSVNGTLKIPITTTNADADLSENPAK		
BjTCP9b	REPA	IAATGTGTPAIAMSVNGTLKIPITTTNADSDVDNSAK		
BjTCP9d	REPA	IAATGTGTPAIAMSVNGTLKIPITTTNADSDAGDNP		
AtTCP9	REPA	IAATGTGTPAIAMSVNGTLKIPITTTNADSDMGENLMK		
AtTCP11	REPS	IAATGYGTK		
BjTCP21b	REPS	IAATGTGTPASFSSTASLSASSSPPFALG	KRVLRGEE	
BjTCP21d	REPS	IAATGTGTPASFSSTASLSSSSS	PFTLIG	KRVVRAEE
BjTCP21a	REPS	IAATGTGTPASFSSTASLSSTSS	SFTLIG	KRGVRAE
BjTCP21e	REPS	VAATGTGTPASFSSTASLSSTSS	SFTLIG	KRVVRAE
BjTCP21c	REPS	IAATGTGTPASFSSTASLSSTSS	PFTLIG	KRVVRAEE
BjTCP21f	REPS	IAATGTGTPASFSSTASLSSSSS	PPFALG	KRVVRAEE
AtTCP21	REPS	IAATGTGTPASFSSTASLSSTSS	PFTLIG	KRVVRAEE
BjTCP7a	REPS	IAATGTGTPASFSSTASVSRGSSSTTISTSTNCTLS	SSSL	
BjTCP7e	REPS	IAATGTGTPASFSSTASVSRGNSSTTISTSANCTL	SSSL	
BjTCP7b	REPS	IAATGTGTPASFSSTVSRGNSSTTISTSANCTL	SSSL	
BjTCP7d	REPS	IAATGTGTPASFSSTASLRGNSSTTISTSANCTL	SSSL	
BjTCP7c	REPS	IAATGTGTPASFSSTASLRGNSSTTISTSANCTL	SSSL	
AtTCP7	REPS	IAATGTGTPASFSSTASLRGNSSTTISTSANCTL	SSSL	
BjTCP22a	REPA	IASTGTGTPANFSTLNATLRG	GGG	STIFAQSSKSSP
BjTCP22c	REPA	IASTGTGTPANFSTLNATLRG	GGGG	STIFAQSSKSSP
AtTCP22	REPA	IASTGTGTPANFSTLNATLRG	GGG	STLFSQAKSSSSP
BjTCP22b	REPA	IATTTGTGTPANFSTLNATLRG	GGGGGGGG	TVFAQSSKSSP
BjTCP22d	REPA	IATTTGTGTPANFSTLNATLRG	GGGGGGGG	TVFAQSSKSSP
BjTCP23	REPA	IAATGTGTPANFSTLNATLRG	GGGGGGGG	TVFAQSSKSSP
BjTCP8a	REPA	VAATGTGTPANFSSLSVLRSGSTLSAPPSKSVPL	LYG	
BjTCP8b	REPA	VAATGTGTPANFSSLSVLRSGSTLSAPPSKSVPL	LYG	
AtTCP8	REPA	VAATGTGTPANFSSLSVLRSGSTLSAPPSKSVPL	LYG	
BjTCP15a	REPA	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
BjTCP15d	REPA	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
BjTCP15c	REPA	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
BjTCP15e	REPA	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
BjTCP15b	REPA	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
BjTCP15f	REPA	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
AtTCP15	REPA	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
BjTCP14a	REPS	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
BjTCP14b	REPS	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
AtTCP14	REPS	IAATGTGTPANFASLNISLRSSRSSL	SAAHLRT	
BjTCP20a	REPS	IAATGSSTIPASALASAAAASVSHHLLQGGSL	TAGLMISHLDDGG	
BjTCP20c	REPS	IAATGSSTIPASALASAAAASVSHHLLQGGSL	TAGLMISHLDDGG	
AtTCP20	REPS	IAATGSSTIPASALASAAAASVSHHLLQGGSL	TAGLMISHLDDGG	
BjTCP20b	REPS	IAATGSSTIPASALASAAAASVSHHLLQGGSL	TAGLMISHLDDGG	
BjTCP6	REPS	ISATDS	VSQPPHADV	
AtTCP6	REPS	LSATVNGIKPTESVVSQPPHADV		
BjTCP1a	SRRG	NELVQEKLLNKKDGYGNRRGGVEDDEED		
BjTCP1e	SRRR	KELVQEKLLNKKDDDFGNRRGGVEDDEED		
BjTCP1b	SRRR	KELVQEKLLNKKDDDFGNRRGGVEDDEED		
BjTCP1c	SRRR	KELVQEKLLNKKDDDFGNRRGGVEDDEED		
BjTCP1d	SRRR	KELVQEKLLNKKDDDFGNRRGGVEDDEED		
AtTCP1	SRKA	KEVVOAKLNNDDEDFGNRRGGVEDDEED		
BjTCP12a	SKAS	KOVKESAAAASG	NHEHLQVSDNVND	
BjTCP12b	SKAS	KOVKESAAAASG	NHEHLQVSDNVND	
AtTCP12	SKTS	KQLKERVAAASG	GKDEHLQVDEKED	
BjTCP18a	AKPE	IKIANSLSNQFNHGGFSSCEESQTRPALGSMHT	SSDLCKLSSM	
BjTCP18d	AKPE	IKIANSLSNQFNHGGFSSCEESQTRPALGSMHT	SSDLCKLSSM	
BjTCP18b	AKPE	IKIANSLSNQFNHGGFSSCEESQTRPALGSMHT	SSDLCKLSSM	
BjTCP18c	AKPE	IKIANSLSNQFNHGGFSSCEESQTRPALGSMHT	SSDLCKLSSM	
AtTCP18	AKPE	IKIANSLSNQFNHGGFSSCEESQTRPALGSMHT	SSDLCKLSSM	
BjTCP17a	AQND	VAMLPPLOQPPG	FHPNLTAAAAG	
BjTCP17b	AQND	VAMLPPLOQPPG	FHPNLTAAAAG	
AtTCP17	AKND	VDLLPPLOQPPG	FHQLNPNLTGLG	
BjTCP5c	AKDD	VKLPLOQPPG	FNQMYPNLIFG	
BjTCP5a	AKDD	VNLPLOQPPG	FNQMYPNLIFG	
BjTCP5b	AKDD	VKLPLOQPPG	FNQMYPNLIFGNSGIG	
AtTCP5	AKDD	VKLPLOQPPG	FNQMYPNLIFGNSGIFG	
BjTCP13a	AKEE	DELPPLPVSPETFTLFNHHQSPFLNLGQR		
BjTCP13c	AKEE	DELPPLPVSPETFTLFNHHQSPFLNLGQR		
BjTCP13b	AKEE	DELPPLPVSPETFTLFNHHQSPFLNLGQR		
AtTCP13	AKEE	DELPPLPVSPETFTLFNHHQSPFLNLGQR		
BjTCP24a	AADS	SELPPINTSFDQALS	LSKACSST	
BjTCP24b	AADS	SELPPINTSFDQALS	LSKACSST	
BjTCP24c	AADS	SDLNPIDTDF	QTLSSKSS	
BjTCP24d	AADS	SELNPIDTDF	QTLSSKSS	
AtTCP24	AADS	SDLNPIDTDF	QTLSSKSS	
BjTCP2a	NDDEN	QIQTGTGAS	AAAASACSSNS	
BjTCP2d	TDDEN	QIQTGTGAS	AAAASACSSNS	
BjTCP2b	MNDDE	QIQTGTGAS	AAAASACSSNS	
BjTCP2c	NDDDN	QIQTGTGAS	AAAASACSSNS	
AtTCP2	DDENH	QIQTGTGAS	AAAASACSSNS	
BjTCP3	AIDGL	LAELPPWNPADAIROAAAAN	KPKRSKTVISPPGIHGGSGEE	
AtTCP3	AIDDL	LAELPPWNPADAIROAAAAN	KPKRSKTVISPPGIHGGSGEE	
AtTCP4	SIDE	LAELPPWNPADAIROAAAAN	KPKRSKTVISPPGIHGGSGEE	
AtTCP16	REPA	FAATGHGVTTSNEDIQPNRNFPSYTFNG		
AtTCP10	AKTA	DKLELGETTTTTTRQEPVNTKPESTLVFQRENND	QTFVAAN	

BjTCP19 .....KRRRRNCTSEFVDINR.QDSSVTS.....  
AtTCP19 .....LIKRRRRNCTSDFVDVNDSCSSSVTS.....  
BjTCP9a .....KRRKRPSNSEYIDINEPVSVSVSS.....  
BjTCP9c .....KRRKRPSNSEYIDINEAASVSS.....  
BjTCP9b .....KRRKRPSNSEYIDINEAVTVSVSSGLAPISSGL  
BjTCP9d .....KRRKRPSNSEYIDINEAVSVSVSSGLAPISSGL  
AtTCP9 .....KRRKRPSNSEYIDISDAVSASSGLAPIAATTTTI  
AtTCP11 .....LISNVWVDAADSSSSSS.....  
BjTCP21b .....GESVGPGGGELTVGHAMS.....  
BjTCP21d .....GESGGGGGGHTV GASLMS.....  
BjTCP21a .....GEAGAGGGG.LTVGPTMG...AS.....  
BjTCP21e .....GVAGAGGGGGLTVGHMTG...AS.....  
BjTCP21c .....GESGAGGG.ELSVGHTMG.....  
BjTCP21f .....EESGGGGGGELSVGHMTGSSVM.....  
AtTCP21 .....GESGGGGGGGLTVGHMTGSLMG.....  
BjTCP7a .....DHK.....PFILGRRLREDSGGGKDD.....  
BjTCP7e .....DHKPLLGSPPFILGRRLRADEVSGKDESH.....  
BjTCP7b .....DQKPMLGSSPPFILGRVRADED.....  
BjTCP7d .....DHKPLLGSPPFILGRVRADED.....  
BjTCP7c .....DHKPLLGSPPFILGRVRREGFGG.....  
AtTCP7 .....PTSLGGTSPFILGRVRADEDSSNNSHNS.....  
BjTCP22a FHSSTGMSLYEDSNGTNGSSSSAAKLLN.AATAAQAAVFQFHQYQPIMSAERNP..PT  
BjTCP22b FHSSTGMSLYEDSNGANGSSSSAVVDPSPRKLNAQAQAAVFGFHQYVPPIT.....PT  
AtTCP22 FHSSTGMSLYEDNNGTNGSS...VDPSPRKLNAQAQAAVFGFHQYVPPIMSTERNP..NT  
BjTCP22c FHGSGMSLYDDSNANGSSSSVVDHRSKLLNGG...VFGFHPPIMSAE.....  
BjTCP22d FHSSGMSLYDDSNANGSSSSAVVVDHRSKLLNGG...VFGFHPPIMSAE.....  
AtTCP23 .....AAQNAAVFQFQQLYHPHHTTSSSSSL  
BjTCP8a .....ALGLTHHQYEQ...GGAFGAHTPPLLGFHHHLQHQHQHQHQQA.PA  
BjTCP8b .....ALGLSHHHHQYEEQGGGAFGPHTPPLLGFHHHLQHQ...QLHQQA.PA  
AtTCP8 .....ALGLTHHQYDEQG.GGGVFAAHTSPLLGFHHHLQHQHQHQNDP.VE  
BjTCP15a .....APSSYFHSPTM.....AHPHOV  
BjTCP15d .....NPSSYFHP.....HOV  
BjTCP15c .....TPSSYFHSPTM.....AHHOV  
BjTCP15e .....TPSSYFHSPTM.....AHHOV  
BjTCP15b .....TPSNYYFHSPAMAQHHH...QQQLHOV  
BjTCP15f .....TPSSYFHSPTMSQHHHQHQHQHHV  
AtTCP15 .....TPSSYFHSPHQSMTHH...LQHQHOV  
BjTCP14a Q.RSGGGGFLPHPHHLQGRATTSLLFPIDNFTPTTSFLNFHNPKQEGDQDSSEELSPDK  
BjTCP14b QQRSGGGGFLPHPHHLQGRATTSLLFPIDNFTPTTSFLNFHNPKQEGDQDSSEELSSDK  
AtTCP14 Q.QQRGGGVGFHHPHLQGRAPTSLLFPIDNFTPTTSFLNFHNPKQEGDQDSSEELNSEK  
BjTCP20a .....SSSRPNWVGWGGGGGS.....  
BjTCP20c .....SSSRPNWVGWGGGGGS.....  
AtTCP20 .....SSGRPLNWGIGGGEGVS.....  
BjTCP20b .....GGRPSVWVGWGGGEASR.....  
BjTCP6 .....LNLDDGSSRSQ.....  
AtTCP6 .....LMICHSVVEEASR.....  
BjTCP1a .....GDKSFVYGWSPD.SCEEVVEVVKKTEKS.....NV  
BjTCP1e .....GDKSFVYGLSPD.SCEEVVEVVKKTAVKS.....NI  
BjTCP1b .....DGDKSFYLGSSPDSWEEVACEVKKAKQRNKKIDLSNI  
BjTCP1c .....EDGDESFVYGSPPDSCKEEVVEVVKKAEKRKKNIELNSI  
BjTCP1d .....DVGDKSFVYGSSSDCFKEEVVEVVKKPEKRKKIELNSI  
AtTCP1 .....DNGDKSFVYGLSPGYGEEVVEVVEATKAGIRKKKSELRNI  
BjTCP12a .....ETQKVK...GRTKRVDSCKKKQREKAR.....  
BjTCP12b .....ETLKVSM...RRAKRVEDSCKKESREKAR.....  
AtTCP12 .....ETLKLVRVKRRRTKTMESFCKTESREKAR.....  
BjTCP18a .....GTVEDRGSNTNSTETRGNKVDGRSMRGKRRMLQARTPILKK  
BjTCP18d .....QTRGNKVDGRSMRGKRRMSQPRTPILKK  
BjTCP18b .....WTVEDRGSN...TSMTENKVDGRTMRGKRRMSQR.TPILKE  
BjTCP18c .....WTVEDRSSN...TSMTENKVDGRTMRGKRRMSQR.TPILKE  
AtTCP18 .....WTVEDRGSNTNSTETRGNKVDGRSMRGKRRKREPRTPILKK  
BjTCP17a .....ESFPGIFESFELGSCSSRTDT.....TQKEG  
BjTCP17b .....ESFPGIFENFDLGSCSSRAET.....TQRES  
AtTCP17 .....ESFPGVFDLGRTOREALDLEK.....RKWVN  
BjTCP5c .....ESSSTSAPPGTNYTNLGLQSWDLGGSSSRTRSRIIDTTTTL.RES  
BjTCP5a .....ESSSTSAAAFPGTNLGFLESWNLGGSSSRTRSRIADTTP...RES  
BjTCP5b .....ESSSTS...AFPGSNLGFLESYDLGGSSSRTRSRIQDTTTTTPRET  
AtTCP5 .....ESPSSTTSTFPGTNLGFLENWDLGGSS.RTRARLDTTTTTQ.RES  
BjTCP13a .....PGQDPTQLGFKINGCVVEESTTTSSREENNNERGEKDVVF  
BjTCP13c .....PGQDPIQLGING...STTTTTSSREENNNERGEKDVVF  
AtTCP13 .....PGQDPTQLGFKINGCVQKSTTTSSREENDREKENDVVY  
BjTCP24a .....SES...SLLSLSRTESRGKARERARERTAKD...DKDL  
BjTCP24b .....SES...SLLSLSRTESRGKARERARERTAKEK...DKDL  
BjTCP24c .....SES...SLLSLSRTESRGKRTSKEK...D  
BjTCP24d .....SES...SLLSLSRTESRGKARERTAK...D  
AtTCP24 .....SES...SLLSLSRTEIRGKARERARERTAKDR...DKDL  
BjTCP2a .....DTSKNSSGLSLSRSELRDKARERARERTAKETKERDHN..  
BjTCP2d .....DTSKNSSGLSLSRSELRDKARERARERTAKETKERDHN..  
BjTCP2b .....DTSKNSSGLSLSRSELRDKARERARERTAKETKERDGTN..  
BjTCP2c .....DTSKNSSGLSLSRSELRDKARERARERTAKETKERDGN..  
AtTCP2 .....DTSKNSSGLSLSRSELRDKARERARERTAKETKERDHN..  
BjTCP3 .....TGHHSN.....FLPASVS.....TPH  
AtTCP3 .....HRIGEEEDNESSFLPASMDSIADTIKSFPPVAST.....TQS  
AtTCP4 .....NNGGAEHPSNNNESSFLPPSMDSIADTIKSFPPVIGSSTEAPSNHNLNMH  
AtTCP16 .....LDPEDAMKTFPPATTTTNGGGGTNINFNQNYPHQDDNNMV

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BjTCP19 .....GLAPITASSYGVN.....L
AtTCP19 .....GLAPITASNRYGVN.....I
BjTCP9a .....GLAPASTVAQQTLPQGMIPMMAFPPSNAV.....V
BjTCP9c .....GLAPTSTVAQQTLPQGMIPMMAFPPSNAV.....V
BjTCP9b APISSGLAPVTTVAQQTLPQGMIPMMAFPPSNAV.....I
BjTCP9d APISSGLASVSTVQQTLPQGMIPMMAFPPSNAV.....I
AtTCP9  QP..PQALASSTVAQQLLPQGMYPMMAFPPSNAM.....I
AtTCP11 .....
BjTCP21b .....G
BjTCP21d .....S
BjTCP21a .....L
BjTCP21e .....L
BjTCP21c .....A
BjTCP21f .....S
AtTCP21 .....G
BjTCP7a .....MGSF
BjTCP7e .....ETMGSF
BjTCP7b .....
BjTCP7d .....
BjTCP7c .....
AtTCP7  .....SVGKDEFTT
BjTCP22a LGKPYREDYFKESE..PSGSSSQKPGQFOEQEMGPPGGMGRG..TANVVVPPMMAVAPGTT
BjTCP22b LGKPYREDYFKESE..PSGSSSQKPGQFOEQEMGPPGTVGVRG..TANVVVPPMMAVAPGST
AtTCP22 LVKPYREDYFKEPS..SAAEPSESSQKASQFOEQELAQGRG..TANVVVPPMMAVAPGTT
BjTCP22c .RNPYREDYFNKESSEVPSGSSSQKPGQFOEQELGPPGGMGRGPTASVVVPPMMAVAPGST
BjTCP22d .RNPYREDYFNKESSEVPSGSSSQKPGQFOEQELGPPGGMGMG...MGRGVPPMMAVAPGST
AtTCP23 PKTFREEDLFKDPNFDQEPGSRSPKPGSEAPDQDPGSTRSRTQNMIPPMWALAPTAST
BjTCP8a ETIPGPDGESFSRKRYSRSDSSKEDGEGKQNESKSLKESSEPPAAAATGAPMMAVAPTNR
BjTCP8b ETD...GEGFSRKRYSRSE..KEDDEGKQOSESKSLKESSEPPAAAATGAPMMAVAPTNR
AtTCP8  TIP...EGENFSRKRYSRSDLSKENDDRKQENKSLKESSE..TSGPTAAPMMAVAPPSRS
BjTCP15a RPKHESHSSSSSS..QLLDHNQMGNYLVOSTAGS.....LPTS
BjTCP15d RPKNETHSSSSSS..QLLDHNQMGSYLVOSTAAGS.....LPTS
BjTCP15c RPKNESHSSSSSS..QLLDHSQMGNYLVOSTAGS.....LPTS
BjTCP15e RPKNESHSSSSSS..QLLDHSPMGNYLVOSTAGS.....LPTS
BjTCP15b RPKNESDSCSSSS..QLVDHNQMGNYLVOSTAGS.....LPTS
BjTCP15f RPKNESHSSSSSS..QLVDHNQMGNYLVOSTAGS.....LPSS
AtTCP15 RPKNESHSSSSSSQLLDHNQMGNYLVOSTAGS.....LPTS
BjTCP14a KRRLOTTSDLH...HQHDQIGGYTLQSSNSG.....STATTA
BjTCP14b KR...RLQDLH...HQHDQIGAYTLQSSNSG.....STATTA
AtTCP14 KRRLOTTSDLHQQQQHHDQIGGYTLQSSNSGSGT.....ATAAAQ
BjTCP20a .....RS
BjTCP20c .....RS
AtTCP20 .....RS
BjTCP20b .....
BjTCP6   .....TQ
AtTCP6   .....
BjTCP1a SSKGLMDKARGKSKQITREMV.YDHPEAVSEITQ.....
BjTCP1e SSKGLREKARGKSKQITREMT.YDHPETISEITQ.....
BjTCP1b SSKGSRAKARGKAKELT...YDHPETISEITQ.....
BjTCP1c SSKGSRAKARGKAKEMT...YDHPETISEITQ.....
BjTCP1d SSKRSRAKALGKAKEIAREMI.SDHPETASEITQ.....
AtTCP1  SSKGLGAKARGKAKERTKEMMAYDNPETASDITQ.....
BjTCP12a .....ERARERTMTKMKMRLSGLIDTSKTFADPNQ.....
BjTCP12b .....ERARERTMTKMKMRLTGLMDTSKTFSDPNQ.....
AtTCP12 .....KRARERTMAKMKMRLF...ETSETISDPHQ.....
BjTCP18a LSKDERAKARERAKDRTEKMKMRR...SQVTVL.....
BjTCP18d LSKDARAKARERAKDRTEKMKMRRS...AQVNVV.....
BjTCP18b MSKDARAKARERAKDRTEKMKMRRR..PQVNAVE.....
BjTCP18c MSKDARAKARERAKDRTEKMKMRRR..PQVNAVE.....
AtTCP18 LSKEERAKARERAKDRTEKMKMRRR..PQVNAVE.....
BjTCP17a LNLES...HGFDIDHHFYSNSNHRDKLYFPSSR.....
BjTCP17b LNLERNLSLHGFDIDHHFYSNSNSQSNKLYPPTL.....
AtTCP17 LDHVPD...HIDHHNHFSNSIQSNKLYPPTI.....
BjTCP5c FDLDKKGKWKHDENSNNHHEHGFDMNHNHFLTN.....
BjTCP5a FDLDKKGKWKQDENSNNHDDLGFNTHQHFLTN.....
BjTCP5b FDLDKKGKWKHDENNTNHHQDHGFDTNHQHFLSN.....
AtTCP5  FDLDKKGKWKNDENSNNQDHQGFNTNHQOQFPPTN.....
BjTCP13a ANNNHIGSYGTYN.MEHHHQOHS..SFQADYHQH.....
BjTCP13c ANNNHIGSYGTYN.MEHHHQOHS..SFQADYHQH.....
BjTCP13b TNNNHIGSYGTYOYMEQHQQHTRFQADYPHQH.....
AtTCP13 TNNHHVGSYGTYNLEHHHHHHQHLSLQADYHSH.....
BjTCP24a QNAQSS.FTQLLTGGFDEPNRNRWIGG..SSSDCF.....
BjTCP24b QNADQSSFTQLLTGGFDEPNRNRWIGGSSSSSDCF.....
BjTCP24c KDLQSS.FTQLLTGGLDEPNRNRWTGAG..SSDCF.....
BjTCP24d KDLQSS.FTQLLTRGLDEPNRNRWTGGG..STDCCF.....
AtTCP24 QNAHSS.FTQLLTGGFDQOPSNRNRWTG..GSDCCF.....
BjTCP2a  ...TTSFTDLLNSGSDPVNINRQWMAFSSSSSQ.....
BjTCP2d  ...TGSFTDLLNSGSDPVNINRQWMAFSSSPAQ.....
BjTCP2b NHHTTTSFTDLLNSGSDPVNINRQWMAFSSSPAQ.....
BjTCP2c NHHTTS.FTDLLNSGSDPVNANRQWMAFSSSPAP.....
AtTCP2  ...HTSFTDLLNSGSDPVNSNRQWMAFSSSP.....
BjTCP3  YHQPPP...SRADAQSO.DLRLSLHSFONGPP.....
AtTCP3  YHQPPP...SRGNTQNDLLRLSLQSFONGPP.....
AtTCP4  YHQHPPDLLSRTNSQNO.DLRLSLQSFDPGPPSLLHHQHH.....HHT
AtTCP16 .....
AtTCP10 SRTTTPPPNLSQDLGLSLHPFQGNNTVVVPEPN.....N

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	180	190	200
BjTCP19	MNVNAQSFVFFWQT...	GFVTGGPN	
AtTCP19	LNVTQGFVFPWPMGMAFVITGGPD		
BjTCP9a	PTVGAFLLVQNPNSN...	QPRILAYPA	
BjTCP9c	PTVGAFLLVPHVAVPLSQPOMLAFPA		
BjTCP9b	PTVGAFLLVPHVAGPTNQPOMLAFPA		
BjTCP9d	PTVGAFLLVPHVAGPTNQPOMLAFPA		
AtTCP9	PTVGAFLLIPQIAGPSNQPLLAFPA		
AtTCP11	.....	MTSPQ	
BjTCP21b	GGGGGFWAVPARQDFG		
BjTCP21d	GSGGFWAVPARQDFG		
BjTCP21a	MSGGFWAVPARPDFG		
BjTCP21e	MSGGFWAVPARPDLG		
BjTCP21c	SGGGFWAVPARNDFG		
BjTCP21f	GSGGFWAVPARPDLG		
AtTCP21	GSGGFWAVPARPDFG		
BjTCP7a	ATPAGFWAVPARPDFG		
BjTCP7e	AAPAGFWAVPARPDFG		
BjTCP7b	.TPSGFWAVPARQDFG		
BjTCP7d	.TPSGFWAVPARPEFG		
BjTCP7c	AIPAGFWSVPARPEFG		
AtTCP7	TTPAGFWAVPARPDFG		
BjTCP22a	NGGSFWMMLPMSGGGREOMQQO		
BjTCP22c	NGGSFWMMLPMSGGGREOMQQO		
AtTCP22	NGGSFWMMLPMSGGGREOMQQO		
BjTCP22b	NGGSFWMMLPMSGGGREOMQQO		
BjTCP22d	NGGSFWMMLPVSGGGREOMQQO		
AtTCP23	NGGSFWMMLPVGGGGG..PANVQD		
BjTCP8a	AGGNTFWMMLPVPTTAAGNOPAAMESSSNAS.RAHMWP..FGGGG..AGAGGGGATHFMAG		
BjTCP8b	AGGNTFWMMLPVPTTAAGNOPAAMESSSNANNRAHMWP..FGAGAGAGGGGGGATHFMAG		
AtTCP8	GAGNTFWMMLPVPTTAAGNQMESSNNNTAAGHRAPPMWPFVNSAGGGAGGGGAATHFMAG		
BjTCP15a	QTPPTAPFWSSGDS		
BjTCP15d	QTPPTAPFWSSGDS		
BjTCP15c	QTPATAPFWSSGDN		
BjTCP15e	QTPATAPFWSSGDN		
BjTCP15b	QTPATAPFWSSGDN		
BjTCP15f	QTPATAPFWSSGDN		
AtTCP15	QSPATAPFWSSGDN		
BjTCP14a	QIPGNFMMVAAAAAAGG...NNNQTGGGSSVGSAGG		
BjTCP14b	QIPGNFMMVAAAAAGN...NNQTGGGSSVGSAGG		
AtTCP14	QIPGNFMMVAAAAAAGGGGNNNQTGGGLMTASIGTGG		
BjTCP20a	SLPTGLWPNVAGFGAG		
BjTCP20c	SLPTGLWPNVAGFGAAG		
AtTCP20	SLPTGLWPNVAGFGSG		
BjTCP20b	...LWPNVAG		
BjTCP6	.LANGFWRNETGFGIV		
AtTCP6	MEANGLWRNETG		
BjTCP1a			T
BjTCP1e			T
BjTCP1b			T
BjTCP1c			T
BjTCP1d			T
AtTCP1			S
BjTCP12a			V
BjTCP12b			E
AtTCP12			E
BjTCP18a			D
BjTCP18d			V
BjTCP18b			E
BjTCP18c			E
AtTCP18			V
BjTCP17a	SCH		
BjTCP17b	STYNSSSSCHYNLG		QL
AtTCP17	TSS..SSSYHYNLG		HL
BjTCP5c	PYNNNTSSYYNLG		HL
BjTCP5a	LYNNNNASSYYNLG		HL
BjTCP5b	PYNNNTSSYYNLG		HL
AtTCP5	PYNN..TSAYYNLG		HL
BjTCP13a	QLHSLVPPFSQFLV		CP
BjTCP13c	QLHSLVPPFSQFLV		CP
BjTCP13b	QLHSLVPIQSQFLV		CP
AtTCP13	QLHSLVPPFSQILV		CP
BjTCP24a	NPVQLIPNSSSSS	LHHYN	TNNHRO
BjTCP24b	NPVQLIPTTSSSSS	LHHFN	SNQTSL
BjTCP24c	NPVQLIP		ADSLN
BjTCP24d	NPVQLMPNS	LNHR	QEPSLN
AtTCP24	NPVQLQIP		NSSS
BjTCP2a	MEYLSGGLILGSGO..THFPVQNAHP		FSD
BjTCP2d	MEYLTSGGLILGSGO..THFPQTSNAHP		FSD
BjTCP2b	MEYFSSGGLILGSGO..THFPQTNHPPFLAI		SDQHHH
BjTCP2c	MEYFSSGGLILGSGO..THFPQTNHPPFLAI		SDQHHH
AtTCP2	MEYFSSGGLILGSGOQTHFPQTNHPPFSSIS		SDQHHH
BjTCP3	FSDQTEHALFSGQSN..PLVFDSSASSWQSO		QN...
AtTCP3	FPNQTEPALFSGQSNQAFDSSSTASWEQSH		QSPEFG
AtTCP4	SASASEPTLFYQGSN..PLGFDTSSWEQSSSE		FG...
AtTCP16			
AtTCP10	FTTTHFDTFGRISGWN		



	210	220	230
BjTCP19	.. QMGHMWAIP	TVAAPSF	LNGGGTRPVPSYVSN
AtTCP19	.. QMGQMWAIP	TVATAPF	LNVG ARPVSSYVSN
BjTCP9a	.. ATAALPATY	VAAVQQA	SSMARPPPPQVVP
BjTCP9c	.. SAAASPSTY	DAAVQQA	PMSRPPPSRVRVPSNGV
BjTCP9b	.. APP	.. SSVYAAV	QQAASLMARPPFVSVSTPS
BjTCP9d	.. APPQ	.. SSVYAAV	QQAASLMARPPFPRVDPVT
AtTCP9	.. AAAS	.. PSSYAAV	QQAASLMARPPPLQVVPSSGFVS
AtTCP11	.. TQTQTPQ	SPSCR	LDLQCPIGIQYVNGYSHMP
BjTCP21b	.. QVWSFAAGAT	PEMLFT	TOQQQ
BjTCP21d	.. QVWSFAAGAT	PEMLFT	TOQQQ
BjTCP21a	.. QVWSFAAGAT	PEMLFT	TOQQQ
BjTCP21e	.. QVWSFSGAS	PEMLF	QAQQQQQ
BjTCP21c	.. QVWSFAAGAT	PEMLFT	TOQQQ
BjTCP21f	.. QVWSFAAGAT	PEMLFT	TOQQQ
AtTCP21	.. QVWSFATGAP	PEMVFA	QOQQQ
BjTCP7a	.. QVWSFAS	.. HQEMF	LQOQQQQQ
BjTCP7e	.. QVWSFAS	.. HQEMF	LQOQQQQQ
BjTCP7b	.. QVWSFAAGAT	QELFL	LQOQQQQQ
BjTCP7d	.. QVWSFAAGAT	QELFL	LQOQQQQQ
BjTCP7c	.. QVLSFAAGAP	HEMFL	LQHQQQE
AtTCP7	.. QVWSFAGAP	QEMFL	LQOQQHHQ
BjTCP22a	.. PGHQMWAFN	PGSYPP	VGTRVVTAP
BjTCP22c	.. PGHQMWAFN	PGSYPP	VGTRVVTAP
AtTCP22	.. PGHQMWAFN	PGNYPP	VGTRVVTAP
BjTCP22b	.. PGHQMWAFN	PGSYPP	VGTRVVTAP
BjTCP22d	.. PGHQMWAFN	PGSYPP	VGTRVVTAP
AtTCP23	.. PSQHMMWAFN	PGHYPP	GRIG
BjTCP8a	TGFSFPMDQYR	GSPLQL	GSFLAQ
BjTCP8b	TGFSFPMDQYR	GSPLQL	GSFLAQ
AtTCP8	TGFSFPMDQYR	GSPLQL	GSFLAQ
BjTCP15a	.. TQNLWAFN	INPHHS	GEVYNTSGGGGGGGGGGAGGGG
BjTCP15d	.. TQNLWAFN	INPHHS	GDAYNTSGGGGGGGGGG
BjTCP15c	.. TQNLWAFN	INPHHS	ADVYNTSGGGGGGGGGG
BjTCP15e	.. TQNLWAFN	INPHHS	ADVYNTSGGGGGGGGGG
BjTCP15b	.. TQNLWAFN	INPHHS	ADVYNTSGGGGGGGGGG
BjTCP15f	.. TQNLWAFN	INPHHS	ADVYNTSGGGGGGGGGG
AtTCP15	.. TQNLWAFN	INPHHS	GVVAGDVYNTSGGGGGGGG
BjTCP14a	.. GGGEVVT	FPSINT	AAAAALYRSVVS
BjTCP14b	.. GGGEVVT	FPSINT	AAAAALYRSVVS
AtTCP14	.. GGGEVVT	FPSINT	AAAAALYRSVVS
BjTCP20a	.. VQTMDS	GGGYRIG	PFDPYGGAMS
BjTCP20c	.. VQTTGLM	SEGAGYR	IGPFDPYGGAMS
AtTCP20	.. VPTTGLM	SEGAGYR	IGPFDPYGGAMS
BjTCP20b	.. GVMSE	GAGYRIG	PFDPYGGAMS
BjTCP6	.. GANPT	GGGFDL	NCGIGLGFDFNG
AtTCP6	.. QTI	GGFDL	NYGIG
BjTCP1a	EIMDPFKRSI	IFNEGDD	MTHSFYKEAIEFDNQE
BjTCP1e	KIMDPFKRSI	IFNEGDD	MTHSFYKEAIEFDNQE
BjTCP1b	ETIDPLKRSI	IFNEGDD	MTHSFYKEAIEFDNQE
BjTCP1c	DIIDPLKRSI	IFNEGDD	MTHSFYKEAIEFDNQE
BjTCP1d	EIVDPFKRSI	IFNEGDD	MTHSFYKEAIEFDNQE
AtTCP1	EIMDPFKRSI	IFNEGDD	MTHSFYKEAIEFDNQE
BjTCP12a	SRKTKI	IGGAQER	ENLEQER
BjTCP12b	SRKTKI	IGGAQER	ENLEQER
AtTCP12	TREIKIT	NGVQLLE	KEKKEQEWSTNDVHMVEYQM
BjTCP18a	ABAHNQ	HDEIV	KNNKSHVNCKSF
BjTCP18b	EEEVH	HHHDEI	VLVKNNK
BjTCP18c	VEAHNQ	HDEIQ	Q
BjTCP18d	VEAHNQ	LDEVV	KNNNTGVNWNNT
AtTCP18	EEDAH	DHGEI	IKNNNRSQVNRSS
BjTCP17a	.. QSLLD	QSGNVT	VALS
BjTCP17b	.. QSLLD	QSGNVT	VALS
AtTCP17	.. QSLLD	QSGNVT	VALS
BjTCP5c	.. QHSLD	QSGNVT	VALS
BjTCP5a	.. QHSLD	QSGNVT	VALS
BjTCP5b	.. QHSLD	QSGNVT	VALS
AtTCP5	.. QSLLD	QSGNVT	VALS
BjTCP13a	.. MTTLS	.. TTTT	QSLF
BjTCP13c	.. VTTSS	.. TTTT	QSLF
BjTCP13b	.. MTTSP	.. TTTT	QSLF
AtTCP13	.. MTTSS	.. TTTT	QSLF
BjTCP24a	.. ETS	LNHHS	FVDPY
BjTCP24b	.. NHHHH	HFVDP	Y
BjTCP24c	.. HHH	SNQYS	F
BjTCP24d	.. HNN	SNQYS	F
AtTCP24	.. QEP	MNHP	F
BjTCP2a	.. HHHH	HQEF	F
BjTCP2d	.. PPH	HQEF	F
BjTCP2b	.. HHQ	HQEF	F
BjTCP2c	.. HHQ	HQEF	F
AtTCP2	.. HHQ	HQEF	F
BjTCP3	.. HRL	V	T
AtTCP3	.. KI	Q	R
AtTCP4	.. RI	Q	R
AtTCP16	.. DN	I	S
AtTCP10	.. HHD	L	T

BjTCP19 .....TSDAEPQMGTSGGGGDEGTTQTLRDFSLITYDKKELQFLGGSSG
AtTCP19 .....ASDAEAEEMETSGG...GTTQPLRDFSLIYDKKRELQFLGGSSG
BjTCP9a .....NFTGVSVMAPSSSSSS...IATKNMLRDFSLIYDKKELQFLGGSSG
BjTCP9c .....ISVNVVNGSVMAPSSSSSSGIANVAPTMNMLRDFSLIYDKKELQFLGGSSG
BjTCP9b .....VMAPSSSSG...VTNGGSSSSTTNMLRDFSLIYDKKELQFLGGSSG
BjTCP9d .....GSAPSSSSSGITNGGSSSSTTNMLRDFSLIYDKKELQFLGGSSG
AtTCP9 VSDVSGSNLSRATSVMAPSSSSSGVTGSSSSIAITTTHTLRDFSLIYDKKELQFLGGSSG
AtTCP11 .....FTAMLLPEPMTTAESEVEIAEEERRR
BjTCP21b VRQ00000...ASAAVAAMGEASAARVGNYPGHHNLNLLASLSGGSPGSRREEDDSR
BjTCP21d VRQ000000000000ASAAVAAMGEASAARVGNYPGHHNLNLLASLSGGNTGSRREEDDSR
BjTCP21a VRQ000...QQQASAAAAMGEASAARVGNYPGHHNLNLLASLSGGNTGSRREEDNPR
BjTCP21e VRHQ000...QQQQAAMGEASAARVGNYPGHHNLNLLASLSGGNTGSRREEDNPR
BjTCP21f VRHQ000...QQQASVEAAMGEASAARVGNYPGHHNLNLLASLSGGNTGSRREEDNPR
AtTCP21 VRHQ000...QASAAAAAAMGEASAARVGNYPGHHNLNLLASLSGGANGSRREEDNPR
BjTCP7a VHQQ000...QAAMGEASAARVGNYPG...HLNLLASLSGGAPGSRREDDQR
BjTCP7e VHQQ000...QAAMGEASAARVGNYPG...HLNLLASLSGGAPGSRREDDQR
BjTCP7b HQ000000...QAAMGEASAARVGNYPG...HLNLLASLSGGAPGSRREDDQR
BjTCP7d QQQ00000...QAAMGEASAARVGNYPG...HLNLLASLSGGAPGSRREDDQR
BjTCP7c VHQQ000...QGAIGEASAARVGNYPG...HLSLLASLSGGVPASGRREDDQR
AtTCP7 VHQQ000...QAAMGEASAARVGNYPG...HLNLLASLSGGSPGSRREDDQR
BjTCP22a LGG000LG...LGVAEAGNMAAAMRGRGGGG...DGLAMTLDQHQHQHQHQEPNQS
BjTCP22c LGG000LG...LGVAEAGNMAAAMRGRGGGG...DGLAMTLDQHQHQHQHQEP.TTQS
AtTCP22 LGG000LG...LGVAEAGNMAAAMRGRGGGG...LGMTLEQHQHQHQHQEP.NQS
BjTCP22b LGG000LG...LGVAEAGNMAAAMRGRGGGG...LGMTLEQHQHQHQHQEP.NNQ
BjTCP22d LGG000LG...LGVAEAGNMAAAMRGRGGGG...LGMTLEQHQHQHQHQEP.NQ
AtTCP23 VRHQ000...LGVAENNLGLFSGGGGGGRVGLMSLEKQPQHQVSDHATRDQN
BjTCP8a MPDSNLG...VLAALNAAYPRGGNANAEQVNN...AVEHQEKQPPQSDQDDDD
BjTCP8b MPDSNLG...VLAALNAAYSRGGNANAEQVNNNAVEHQEKQPPQSDQDDDD
AtTCP8 MPDSNLG...MLAALNSAYSRRGGNANANAEQAN...NAVEHQEKQPPQSDQDDDD
BjTCP15a SG.QPLASG...YGGGGGGHNNHYGVLAAALNAAYRQVET...ASQNNREGDHH
BjTCP15d SG.QPLASG...YGGGGGGHNNHYGVLAAALNAAYRQVET...ANQNSREGDHH
BjTCP15c SG.QPLASGYGGGGGGGGGGGGHNNHYGVLAAALNAAYRQVET...ANQNNREGDHH
BjTCP15e SG.QPYG...GGGGGGGGHNNHYGVLAAALNAAYRQVET...ANQNNREGDHH
BjTCP15b SG.QPLASG...YGGGGGGGGGGGGHNNHYGVLAAALNAAYRQVET...ANQNNREGDHH
BjTCP15f SG.QPLASG...YGGGGGGGGGGGGHNNHYGVLAAALNAAYRQVET...ANQNNREGDHH
AtTCP15 SG.QPLASG...YGGGGGGGGGGGGHNNHYGVLAAALNAAYRQVETGNH.NNNQNNREGDHH
BjTCP14a TG.QQLATSSNHEINEDNNNNNEGGRSDGG.DHHNTQRHHHQHQHQHQHHHLLSGLNQ
BjTCP14b TG.QQLATSSNHEINEDNNNNNEGGRSDGG.DHHDTQRHHHQHQHQHQHHHLLSGLNQ
AtTCP14 TGQQQLATTSSNHEINEDNNNNNEGGRSDGGDHHNTQRHHHQHQHQHHHLLSGLNQ
BjTCP20a LGLAQEGNVGLNPOSFAQIQOQMSQAQAQGRVLLHHTLQHNP.THEHQESESKEKDDSO
BjTCP20c LGLAQEGNVGLNPOSFALIQOQMGQAQAQGMVLLHHTLHNPSSHEEHQESKEKDDSO
AtTCP20 LGLSQEGNVGLNPOSFTQIQOQM...QAQAQAQGRVLLHHTLHNPSSHEEHQESKEKDDSO
BjTCP20b LGLSQEGNVGLN...QQIQOQMAQAQAQGRVLLHHTLHNP.GHEDHQESESKEKDDSO
BjTCP6 .....QVGV...NPRIYQMGQEQAKVLQHHYHHPHEAQENADKQGS
AtTCP6 IRLS0VGV...NPQVQMGKEQFRVLLHHHS...HEDQESAEBS
BjTCP1a PTDMDSYNQHYGTFFMLKDKGSSSNYNTILPONLDYGDQNPFFMDQLCAVTNRNFRGK
BjTCP1e PTDMDSYNQHYATFFMLKDGSSSNNTTILPONLEYGIDQNPFFMDQCAVTNRNFRGK
BjTCP1b PTNMDQIYNQYGTFFMLKDKGSSSNYNTILPONLDYFDQNSFIDQPFCAVTKTSFFRGN
BjTCP1c PTNMDQSYNQHYGTFFMLKDKGSSSNYNTTPPONLDYFDQNPFFIDQPFCAVTKTSFFRGN
BjTCP1d LINMDQNYNQYRESMLKDKGSSSNYNTILPONLDYFDQNPFFIDQPFCAVTKTSFFRGN
AtTCP1 PTKMGQSYNQNGILMLVDQSSSNYNTFLPONLDYSDQNPFFHDQTLVYVTDKNFPKKG
BjTCP12a GLTSESSSSSTIFGDSEESYTLGSIRESYTVSTAGVVPREHN...TSTASVDEERNPTST
BjTCP12b GLTSESSSSSTIFGDSEESYTLGSIRESYTVSTAGVVPREHN...TSTASVDEERNPTST
AtTCP12 GLTSDSSSSSIFGDSEECYTLSSVRG...MSTPREHN...TSTIATVDEEKSPSS
BjTCP18a VN.....KFNSSFPMPNHHRSQGTVSSIE...QORQFMDLHHFLERPR
BjTCP18b MDKDHISD.....EFNSSFPMLDHHHSQWAASSIE...QORQFMDLHHFLERPR
BjTCP18c VNKKDHISDESYNMI.SKLNSSFPVLTTHRSQGVATSIQQQQQQQQVDRDVHFLERPR
AtTCP18 MNKKDHISNESYDLVNYKPNSSFPVINHHRSQGAANSIE...QHQFTDLHYSGAKPR
BjTCP17a .....
BjTCP17b PRYPLFLGEG...DQLQLFSSSHSNSSKQTDHVE.....
AtTCP17 PTRYPSFLGG...GQLQLFSSSTSSQPDHIE.....
BjTCP5c PTYPSFLGASQQHHVVVDGAGNLQLFSSNANRNNR.....
BjTCP5a PTYPSFLGAS...HHVVVDGAGNLQLFSSNANRNNR.....
BjTCP5b PTYPSFLGAS.HHHVVVDGAGNLQLFSSNANTASQOQMMTGNSSLI RPPHHLMSSNHDT
AtTCP5 PTYPSFLGAS.HHHVVVDGAGHLQLFSSNSNTASQOHHMMPGNTSLIRPPHHLMSSNHDT
BjTCP13a QMPLMGSSSSSASQNIISTLYSLHGGSS...SNRMSVQLNRTNRGSDNHM.....
BjTCP13c QMPLMGSSSSSASQNIISTLYSLHGGSS...SNRMSVQLNRTNRGSDNHM.....
BjTCP13b QMPLMGSSSSS...QNIISTLYSLHGGNSPMPVQFDRK.....
AtTCP13 .....
BjTCP24a SNSHSHFLNNNN.....VNQRPI SFMATPPPLDHHN.HQLPATFDGR
BjTCP24b SNSHSHLLNNNN.....VNQRPI SFMATPPPLDHHSHQOLPATFDGR
BjTCP24c SNSQSLFLNNNNN.INORSISSSSSSSPMDSQISIFFMAPP.LHHHTHQFPAVDGR
BjTCP24d SNSQSLFLNNNNN.ITORSISSSSSSSPMDSQISIFFMAPP.LHHHTHQFPAVDGR
AtTCP24 SNSQSLFLNNNNN.ITORSISSSSSSSPMDSQISIFFMATPPPLDHHHQLPETFDGR
BjTCP2a SNSSNHHHHHQO.QQOSSLANLQRLSSSEGGGGPOFLG.ALPAENHHHNN...HO
BjTCP2d SNSSTNHHHHH...SFLANLQRFPSSEGGGGPOFLG.ALPAENHHHNN...HO
BjTCP2b SNSSTNHHHHH...QSFANLQRFPSSEGGGGPOFLGNGALPAENHHHNNNN...HO
AtTCP2c SNSSTNHHHQH...QSFANLQRFPSSEGGGGPOFLG.MPAENQHPPHHNNNNHO
BjTCP2 SNSSTNHQHSP...LANLQRFPSSEGGGGPOFLG.ALPAENHHHNN...Q
BjTCP3 SINTPMLRWFDPYHHH...QSIITNDHHHHHPYQS...AIPGIAFASGGELSGL
AtTCP3 SINTPMIRAWFDPHHHHHHHQSMDDDLHHHHHPYHPPGIHQSAIPGIAFASGGELSGF
AtTCP4 SSSYPMIRAWFDPHHHH...QSIITDDLNHHHHLP...VHQSAIPGIAFASGGELSGF
BjTCP16 .....TMDHAPSTNYSTISDNYNSTFNAGNATASDSTSAATTATTTV
AtTCP10 QQQQRGTQLQSSLFPFSFRSVDHHTTSDHHHHHQNQASMPASSQYSGHMMMQGLSFP

BjTCP19 DNTSPS.....  
AtTCP19 NSSPSSCHET.....  
BjTCP9a AAPRSSNH.....  
BjTCP9c TARSSANR.....  
BjTCP9b TARSSSNH.....  
BjTCP9d TARSSSNH.....  
AtTCP9 TARSSNH.....  
AtTCP11 RRHH.....  
BjTCP21b .....  
BjTCP21d .....  
BjTCP21a .....  
BjTCP21e .....  
BjTCP21c .....  
BjTCP21f .....  
AtTCP21 .....  
BjTCP7a .....  
BjTCP7e .....  
BjTCP7b .....  
BjTCP7d .....  
BjTCP7c .....  
AtTCP7 .....  
BjTCP22a QAS.ENGDDDKK.....  
BjTCP22c QVS.ENGDDDKK.....  
AtTCP22 QAS.ENGDDDKK.....  
BjTCP22b AEASENGDDDKK.....  
BjTCP22d AEASENGDDDTK.....  
AtTCP23 PTIDGSP.....  
BjTCP8a SRDENSNSDG.....  
BjTCP8b SRDENSNSDG.....  
AtTCP8 SREENSNSSE.....  
BjTCP15a HSHQEDGSTSHHS.....  
BjTCP15d HNHQEDGSTSHHS.....  
BjTCP15c HSHQEDGSTSHHS.....  
BjTCP15e HSHQEDGSTSHHS.....  
BjTCP15b HNHQEDGSTSHHS.....  
BjTCP15f HNHQEDGSTSHHS.....  
AtTCP15 HNHQEDGSTSHHS.....  
BjTCP14a YGRQVSGESQASDSLGGGEEDPOD.....  
BjTCP14b YGRQVSGESQASDSLGGGEEDPOD.....  
AtTCP14 YGRQVSGDSQASGSLGGGEEDQOD.....  
BjTCP20a GSGR.....  
BjTCP20c GSGR.....  
AtTCP20 GSGR.....  
BjTCP20b GSF.....  
BjTCP6 INLWFSLLRYAYIVCEMSEIYAFGGISSLVLLGYAFCGKMCLFYSLVCLNSLSMALMYLI.....  
AtTCP6 .....  
BjTCP1a VLVQDSSLA.....  
BjTCP1e VWIQDYLL.....  
BjTCP1b V.....  
BjTCP1c .....  
BjTCP1d .....  
AtTCP1 VWIQDSFVN.....  
BjTCP12a FSLYDYLCY.....  
BjTCP12b FSLYDYLCY.....  
AtTCP12 FSLYDYLCY.....  
BjTCP18a DLMYNYHNM.....  
BjTCP18d DLVYNYHSMC.....  
BjTCP18b NM.....  
BjTCP18c DFMYNYHNM.....  
AtTCP18 DLMHNYQNM.....  
BjTCP17a .....  
BjTCP17b .....  
AtTCP17 .....  
BjTCP5c .....  
BjTCP5a .....  
BjTCP5b RHSSDDNDSDS.....  
AtTCP5 HHSSDNESDS.....  
BjTCP13a .....  
BjTCP13c .....  
BjTCP13b .....  
AtTCP13 .....  
BjTCP24a LYLYYEGGNRSDDKKGKDG.....  
BjTCP24b LYLYYEGGNRSDDKAKDGS.....  
BjTCP24c LYLYYEGGNRSDDKKGKERR.....  
BjTCP24d LYLYYEGGKKGKDKOR.....  
AtTCP24 LYLYYEGGNRSDDKAKERR.....  
BjTCP2a FQLYYENGCRNS.DOKGKGN.....  
BjTCP2d FQLYYENGCRNS.DOKGKGN.....  
BjTCP2b FQLYYENGCRNS.DOKGKGN.....  
BjTCP2c FQLYYENGCRNS.DOKGKGN.....  
AtTCP2 FQLYYENGCRNSSEHKGKGN.....  
BjTCP3 RVPVRYQS.EQDDHG.DNPPSASSDSRH.....  
AtTCP3 RIPARFQG.EQEEHGGDNKPSSASSDSRH.....  
AtTCP4 RIPARFQGEQEEHDGLTHKPPSASSISRH.....  
AtTCP16 .....  
AtTCP10 NITRLLHGEEATQPNSSSSPPNSHL.....

BjTCP19 .....  
AtTCP19 .....  
BjTCP9a .....  
BjTCP9c .....  
BjTCP9b .....  
BjTCP9d .....  
AtTCP9 .....  
AtTCP11 .....  
BjTCP21b .....  
BjTCP21d .....  
BjTCP21a .....  
BjTCP21e .....  
BjTCP21c .....  
BjTCP21f .....  
AtTCP21 .....  
BjTCP7a .....  
BjTCP7e .....  
BjTCP7b .....  
BjTCP7d .....  
BjTCP7c .....  
AtTCP7 .....  
BjTCP22a .....  
BjTCP22c .....  
AtTCP22 .....  
BjTCP22b .....  
BjTCP22d .....  
AtTCP23 .....  
BjTCP8a .....  
BjTCP8b .....  
AtTCP8 .....  
BjTCP15a .....  
BjTCP15d .....  
BjTCP15c .....  
BjTCP15e .....  
BjTCP15b .....  
BjTCP15f .....  
AtTCP15 .....  
BjTCP14a .....  
BjTCP14b .....  
AtTCP14 .....  
BjTCP20a .....  
BjTCP20c .....  
AtTCP20 .....  
BjTCP20b .....  
BjTCP6 .....  
AtTCP6 .....  
BjTCP1a .....  
BjTCP1e .....  
BjTCP1b .....  
BjTCP1c .....  
BjTCP1d .....  
AtTCP1 .....  
BjTCP12a .....  
BjTCP12b .....  
AtTCP12 .....  
BjTCP18a .....  
BjTCP18d .....  
BjTCP18b .....  
BjTCP18c .....  
AtTCP18 .....  
BjTCP17a .....  
BjTCP17b .....  
AtTCP17 .....  
BjTCP5c .....  
BjTCP5a .....  
BjTCP5b .....  
AtTCP5 .....  
BjTCP13a .....  
BjTCP13c .....  
BjTCP13b .....  
AtTCP13 .....  
BjTCP24a .....  
BjTCP24b .....  
BjTCP24c .....  
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