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 Pp2cyeast   ..........  ..........  ..........  ..........  ..........  ..........  0
 P2c1schpo   ..........  ..........  ..........  ..........  ..........  .......MKG   3
 Pp2carath   ..........  ..........  ......MAGI   CCG.......  ......VVGE  TEPAAPVDST   21
 Abi1arath   MEEVSPAIAG  PFRPFSETQM  DFTGIRLGKG  YCNNQYSNQD  SENGDLMVSL  PETSSCSVSG   60
Dig3tomato   ..........  ..........  ..........  ..........  ..........  ..........  0

 Pp2cyeast   ..........  ..........  .........M  SNHSEILERP  ETPYDI....  ..........  17
 P2c1schpo   SHPNAGSLLE  PLHKLNPFSE  NSTSGHRKNA  SDHSADGETR  PIAIEMKDSK  GNTVPVGNSR  63
 Pp2carath   SRASLRRRLD  LLPSIKIVAD  SAVAPPLENC  RKRQKRETVV  LSTLPGNLDL  DSNVRSENKK  81
 Abilarath   SHGSESRK..  .......VLI  SRINSPNLNM  KESAAADIVV  VDISAGDEIN  GSDVTSEKKM  111
Dig3tomato   ..........  ..........  ..........  ..MTGGKEII  DKIKEKVGLS  SSDTGRGKSK  28

 Pp2cyeast   .....TYRVG  VAENKN....  .........S  KFRRTMEDVH  TYVKNFASRL  DWG.......  52
 P2clschpo   PSKASNWLAG  LMEDKN....  .........Q  RWRRSMEDTH  ICLYDFGGNQ  DDG.......  103
 Pp2carath   ARSAVTNSNS  VTEAESFFSD  VPKIGTTSVC  GRRRDMEDAV  SIHPSFLQRN  SEN.......  134
 Abilarath   ISR..TESRS  LFE....FKS  VPLYGFTSIC  GRRPEMEDAV  STIPRFLQSS  SGSMLDGRFD  165
Dig3tomato   MSKNITHGYH  MVEGKS....  ..........  ..HHTMEDYV  ..FAQFKQVD  ENEL......  64

 Pp2cyeast   ......YFAV  FDGHAGIQAS  KWCGKHLHTI  IEQNILADET  RDV.......  ..RDVLNDSF  97
 P2clschpo   ......FVAV  YDGHAGIQAS  DYCQKNLHKV  LLEKVRNEPD  RLV.......  ..TDLMDETF  148
 Pp2carath   ....HHFYGV  FDGHGCSHVA  EKCRERLH..  ..DIVKKEVE  VMASDE....  .WTETMVKSF  181
 Abilarath   PQSAAHFFGV  YDGHGGSQVA  NYCRERMHLA  LAEEIAKEKP  MLCDGDTWLE  KWKKALFNSF  225
Dig3tomato   .....GLFAI  FDGHLSHEIP  EYLRSHLF..  ..NNILNEPN  FWAEPE....  ...SAIRKAY  108

 Pp2cyeast   LAIDEEINTK  LVG.......  ..........  ......N.SG  CTAAVCVLRW  ELPDSVSDDS  133
 P2clschpo   VEVNSKIAKA  THN.......  ..........  ......DICG  CTAAVAFFRY  E.........  176
 Pp2carath   QKMDKEVSQR  ECNLVVNGAT  RSMKNSCRCE  LQSPQCDAVG  STAVVSVVT.  ..........  230
 Abilarath   LRVD......  ..........  ........SE  IESVAPETVG  STSVVAVVF.  ..........  250
Dig3tomato   RITDTTILDK  AADL......  ..........  ......GKGG  STAVTAILI.  ..........  135

 Pp2cyeast   MDLAQHQRKL  YTANVGDSRI  VLFRNGNSIR  LTYDHKASDT  LEMQRVEQAG  GLIMK.....  188
 P2clschpo   ..KNRTRRVL  YTANAGDARI  VLCRDGKAIR  LSYDHKGSDA  NESRRVTQLG  GLMVQ.....  229
 Pp2carath   ......PEKI  IVSNCGDSRA  VLCRNGVAIP  LSVDHKPDRP  DELIRIQQAG  GRVIYWDG..  282
 Abilarath   ......PSHI  FVANCGDSRA  VLCRGKTALP  LSVDHKPDRE  DEAARIEAAG  GKVIQWNG..  302
Dig3tomato   .....NGQKL  VVANVGDSRA  VIYKNGVAKQ  LSIDHEPGRE  REI..IEGKG  GFVSNFPGDV  188

 Pp2cyeast   SRVNGMLAVT  RSLGDKFFDS  LVVGSPFTTS  VEI.TSEDKF  LILACDGLWD  VIDDQDACEL  247
 P2clschpo   NRINGVLAVT  RALGDTYLKE  LVSAHPFTTE  TRIWNGHDEF  FIIACDGLWD  VVSDQEAVDF  289
 Pp2carath   ARVLGVLAMS  RAIGDNYLKP  YVIPDP.EVT  VTDRTDEDEC  LILASDGLWD  VVPNETACGV  341
 Abilarath   ARVFGVLAMS  RSIGDRYLKP  SIIPDP.EVT  AVKRVKEDDC  LILASDGVWD  VMTDEEACEM  361
Dig3tomato   PRVDGQLAVA  RAFGDKSLKM  HLSSEP.DVV  VELIDDDTEF  LILASDGVWK  VLSNQEAADC  247

 Pp2cyeast   IK........  ..........  .........D  ITEPNEAAKV  LVRYALENGT  TDNVTVMVVF  280
 P2clschpo   VR........  ..........  .........N  FVSPREAAVR  LVEFALKRLS  TDNITCIVVN  322
 Pp2carath   ARMCL.....  RGAGAGDDS.  .......DAA  HNACSDAALL  LTKLALARQS  SDNVSVVVVD  388
 Abilarath   ARKRILLWHK  KNAVAGDASL  LADERRKEGK  DPAAMSAAEY  LSKLAIQRGS  KDNISVVVVD  421
Dig3tomato   IK........  ..........  .........D  IKDARSAAKH  LNEHALARGS  TDDISCVVVR  280

 Pp2cyeast   L.........  ..........  ..........  281
 P2clschpo   LTRNPGDLDD  SGLTADNDSY  SNDYY.....  347
 Pp2carath   LRKRRNNQAS  S.........  ..........  399
 Abilarath   LKPRRKLKSK  PLN.......  ..........  434
Dig3tomato   FQ........  ..........  ..........  282
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