A

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                   10        20        30        40        50        60        70        80
           ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PagSP01    MKQLSFILLVVAALTLESNASSPKEICEKR-HQDDDICVTYCEYSYYGFTNDEFKLDDEHINKLKDVLLNFEAIKDNE-V
PagSP02    MKQLSFVLLAITALIVESYGATPAKKCREGDLRKTEVCILHCEYSHYGFAGNNFKIDEKHTKKLTDILIQYGGVAKNK-A
PagSP07    MKRLQVIIFVVTALIVICGAERPEKKCAREHKN-EKSCIIPCVYTYYEFLDKQYRVTKRHVDNYRNFLLKYKAVQEDK-L
PagSP12    MKHANFVFLTITLLVLEIYALDPHQKCTKSDQNISRDCVLHCEYKYYGFADDQFNINKAHRNVLRNVLLKYHVITNDQ-V
PagSP13    MNTLVCALIFLLFFIGFCQAENPEKYCIRTLKDTHFDCIVYCKYNYYVFTDGKFSIDKKHMDNLTYILIKYKAVDSSR-K
ParSP03    MKQFPVILLTLGLLVVKCRSERPEWKCERDFKKIDQNCFRPCTFAIYHFVDNKFRIARKNIENYKKFLIDYNTVKPEV--
ParSP08    MKLLPIILLALTVLIVTCQAEHPGTKCR-REFAIEEECINHCEYKHFGFTDDQFRIKKHHRENFKNAMSHYGAIRKDQ-E
PpeSP02    MKQLPVILLALVFLIAKCRSEKPEYKCRRDFKTEDKNCFLSCTFKNYHFIDNKFRIERKNIENYKKFITDYKALKPNVSD
PpeSP09    MNYFVAVLISAVFLARSCQGDHPEAKCIRDFKDKNPACIIHCKYNFYKFTDDKFSINEEHMRKLTDILIKYKAVDAAE-K
PpeSP11    MKQL-VVFLALIVLIVICHAEPPSKKCR-SGLVKDEECILHCEYKYYGFTDDNFELDSDLRGHFRTAMRKHGAIRIDQ-E
LJM04      MNHLCFIIIALFFLVQQSLAEHPEEKCIRELARTDENCILHCTYSYYGFVDKNFRIAKKHVQKFKKILVTFGAVPKKE-K

                   90       100       110       120       130       140
           ....|....|....|....|....|....|....|....|....|....|....|....|..
PagSP01    DKTVAHLKKCANEAKAKQASDNTRKNCYSIVHYQRCAYV-NDIFTFSAYDEAIRKNAATISITIRK-
PagSP02    KDIRRHLRNCANEALARSALNKDQK-CTRVIDYYRCAVK-TDLFSYTSYATAVIKYDKTINV-----
PagSP07    KDLENHLYDCLKIS-KSPEESSLVEKCEKARKFEHCIID-KNILNYPVYYNAFKKLNFVMDV-----
PagSP12    EKIDEHLEKCAKEANPKAQSA-EKDKCRRVLKYSLCVVNDSKLFTYNTYMKALIRFGHTFNL-----
PagSP13    KQVQEHLEKCKEKAIRKNKTP----SCDRIMDYYRCVVD-DKLIDFDKYDRAMRMYDSTIIV-----
ParSP03    NDLEKHLLDCWNTI-KSIEASSRTEKCEQVNNFERCVID-KNILNYPVYFNALKKINKNTNV-----
ParSP08    GELDKLLNRCAKKAKESPATS-KRDKCYRIINYYRCVVVDNNLINYSVYVKAVTKINDSINV-----
PpeSP02    NDLEKHLLDCWDKFQKSPEASTRPEKCEKVNNFERCVID-KNIFDYPIYFNALKKINYITKV-----
PpeSP09    ARVEKHLRKCKEEATQKSKTP----SCERILYYYSCLVD-LRLIDYYKYNDAMKTYDNTIYLSRFSN
PpeSP11    RQLDKHLKKCAQEAKKS-------EKCRKIIQYYRCAVN-NKLFQYNAYAKAIIALDKTINV-----
LJM04      KKLLEHIEACADSANADQPQT-KDEKCTKINKYYRCVVD-GKILPWNSYADAIIKFDKTLNV-----
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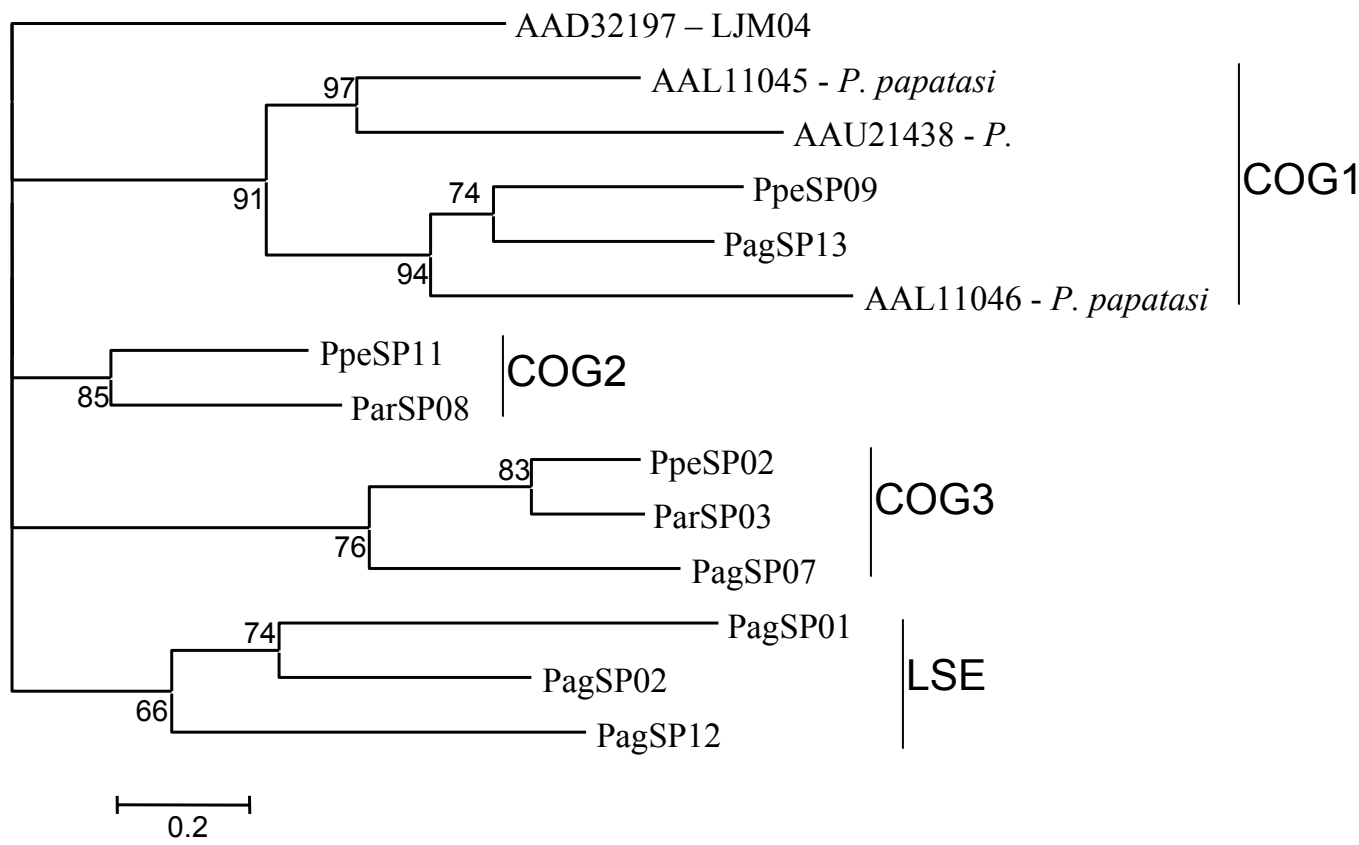
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