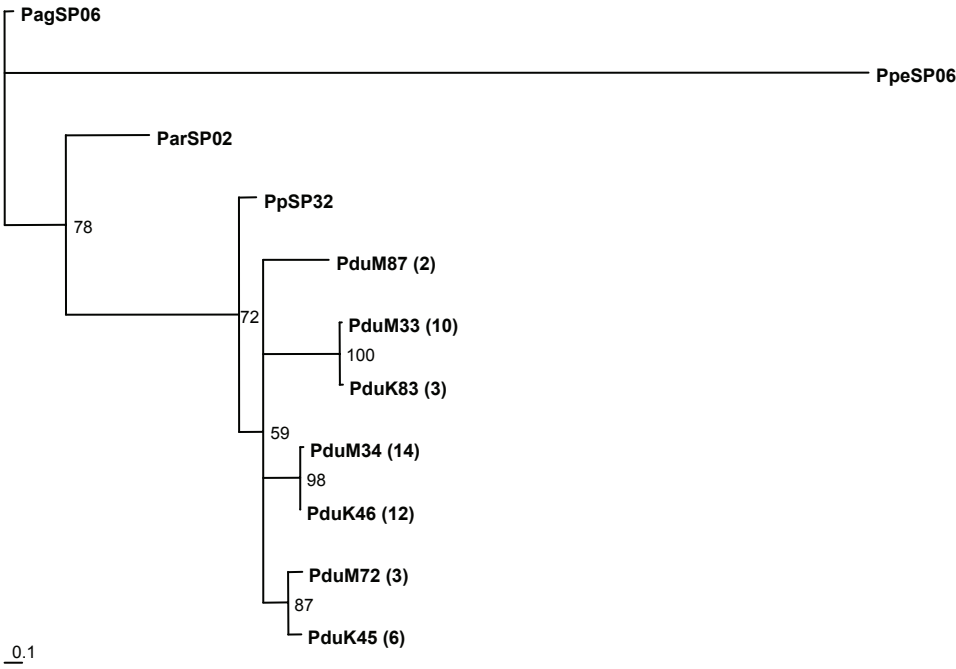


A



B

PduM33 MLRHILSVGLFVVVAHCVALPSSGKPIPINNQGHFPVPFVSQQNDGDFYDDNYYPDINDESINTAVRDNGGKGDSRGSQ
PduK83 MLRHILSVGLFVVVAHCVALPSSGKPIPINNQGHFPVPFVSQQNDGDFYDDNYYPDINDESINTAVRDNGGKGDSRGSQ

PduM33 SKPSGKETRPSATQTGRRQSNPSKGESRPSATPTGRRRPSKSPGGELPPRTTFPSSCGWSSQVPLEESQPSATFPPTKSW
PduK83 SKPSGKETRPSATQTGRRQSNPSKGESRPSATPTGRRRPSKSPGGELPPRTTFPSSCGWSSQVPLEESQPSATFPPTKSW

PduM33 DSLPLPGRGSRPSDTLPSSARRPCDGFDTSSRQNSRQPGRQQNRNQPSLSNYRNSPAKYIFTSGYVDSKKPDEERLFRT
PduK83 DSLPLPGRGSRPSDTLPSSARRPCDGFDTSSRQNSRQPGRQQNRNQPSLSNYRNSPAKYIFTSGYVDSKKPDEERLFRT

PduM33 NKKEYTIATGDPYTNYLVEIIQGPDNDIGLKQLTTMDGDSRLILENPTGET--VVGRVKLTGR-ERKGN
PduK83 NKKEYTIATGDPYTNYLVEIIQGPDNDIGLKQLTTMDGDSRLILENPTGENSYWPGVKLTQGRGEKGN

C

PduM34 MLRHILSVGIFVVVALCAKLTSANSIPIKEQGENFPVPFVSQQNDDDFFDNAFYPDINDESINKVVRDNGDKRGDRGSQ
PduK46 MLRHILSVGIFVVVALCAKLTSANSIPIKEQGENFPVPFVSQQNDDDFFDNAFYPDINDESINKVVRDNGDKRGDRGSQ

PduM34 SNVPGGASRPSGAPTSGRRPSQSPKGESRPSGAPTGDRRPSQYPRGESRPSGRPTSGRGPPQYPIGESRPSGSSTSDRRP
PduK46 SNVPGGASRPSGAPTSGRRPSQSPKGESRPSGAPTGDRRPSQYPRGESRPSGRPTSGRGPPQYPIGESRPSGSSTSDRRP

PduM34 PQSPRGESRPPAIFPSSSGRGSFPLPGGQLPLPETFPPTKGVDLSLSPCGESRPSDTTFDPSGRRQWDGSETPHRQNSRQQG
PduK46 PQSPRGESRPPAIFPSSSGRGSFPLPGGQLPLPETFPPTKGVDLSLSPCGESRPSDTTFDPSGRRQWDGSETPHRQNSRQQG

PduM34 RRQDRKQONLSKYRDSARYIITGNVDSGNPNEIRIFRTNRAEYEIATGDPYKNNYLGEIIEGPNPNEINLKQITVMG
PduK46 RRQDRKQONLSKYRDSARYIITGNVDSGNPNEIRIFRTNRAEYEIATGDPYKNNYLVEIIEGPNPNEINLKQITVMG
**

PduM34 GDSKISSRIIPSPITVAD-
PduK46 GDSKISSKILVQIVGPI

D

PduM72 MLRHILSVGLFVVVAHCAQLPGSANSIPIKQCKDFPVPFVSEQTDDFYDDKFPYDIDDENINEVVRDNGKNRGAQSNVP
PduK45 MLRHILSVGLFVVVAHCAQLPGSANSIPIKQCKDFPVPFVSEQTDDFYDDKFPYDIDDENINEVVRDNGKNRGAQSNVP

PduM72 AGGSRPSVTPTSGGRPSQPPSRGETRPSCTPTDRRRPSQSSRREPCS SGSPTRDRSPQSPEGASRPSATFPSSSDRGS
PduK45 AGGSRPSATPTSGGRPSQPPSRGETRPSVTPTDRRRPSQSSRREPCS SGSPTRCRTPQSPEGEPRPSATFPSSSDRESL

PduM72 TYPQGFPISEKFPTKGVESLPNSGGESRPSGCTPGSDRTEG-REATPHRQNSRQQGRRQRNQPDLSNYKNSPAKYIFT
PduK45 PFPRGFPIPDFTPTKGVESLPNSGGVSRPSVTLPGSDRTOWGGYETSRGQNSRQQGRRQRNQPDLSNYKNSPAKYIFA

PduM72 TGNVDSGKEPDEIRMFRTNRAEYEIATGDPYKNNYLVEIIEGPNPNEINLKQITVMGGDSKIILENPTRTITVGRIKTYR
PduK45 TGNVDSGKEPDEIRMFRTNRAEYEIATGDPYNN- YLVEIIEGPNPESDISLKQSTVMGGDSKIILENPTGRTITVGRIKTYK
*

PduM72 A-----
PduK45 GEKKN