

Pf MKYPNFFILKVFFLFFYLSEFEDIYYHCINIGKPQVNTNGKVNNSNEKANLSTEWS
Pr MKYLNFFILKVFFLFFYLSEFEDIYYHCINIGKPQINTNGKVNNSNEKANLSTEWS
Pg MKDFKMSKLNIIYVFLIYLSEFQNI-YKCIKIGKQQNKVHNNNRLESKFDNLSKWS
Pk MKNVAFSILHIISSLFILIYLSQSGLYSCKNTGKTASKGNHNSPNASVNSNSLSTEWS
Pv MKNFAPPILNIISSLFILIYLSQSGLYNCMNTGKTASAKRSNENSGVNDNSLSTEWS
Py MKRINIPTSTIGCLLLFLLSSQNAQYECMNIKGSNNASGDKTNFVQDGLKNTKWS
Pb MKCINIPTSTIGCLLLFLLSSQNAQYECMNIKGSNNNGSGKANFNVDGKLNKTKWS
Pc MKRINIPTSAIGCLLLFLLSSQNAQYECMNIKGSNNNGSENKANLNAQNGKLNKTKWS
Cons ** : : : : * * . * * : . : . : . * . : *

Pf NRGFNFMDDLKNGYLQSHGNLEEVKDELANELANKIQNKIGEYLKDEKNLSVLQHLQ
Pr NRGFNFMDDLKNGYLQSHGNLEEVKDELANELANKIQNKIGEYLKDEKNLSVLQHLQ
Pg NKGYNFMDDLKNGYLKKNKGNLDDVKNLADLANKIQNKIEDYLKEENMGMDIENFT
Pk EKGYNFMDLVKNGYLKKNKGNLDDVKNLADLDELAKIKDKLNGILKDENIFYDLENMD
Pv EKGYNFMDLVKNGYLKKNKGNLDDVKNLADLDELASKIKDKLNGILKDEKIFYDLENMD
Py DSGYSFMDLIKNGYVKNK-DLDDIKDDLASELATKIQNTVKNYIKEDN---DEDELN
Pb DNGYSFMDLIKNGYVKNK-DLDDIKDDLASELATKIQNSISKYIKEDN---DEDELN
Pc ETGYNFMDLIKNGYVKNK-DLDDIKDDLASELATKIQNTVSNYIKEDH---DEDEIN
Cons : * . * * * : * * * * . . : * : * * * * * * * * * * : * : . .

Pf LEDLDDLKHYVKDVSEYIGAKAGDLLDENLESTLKP LLERKS FETFEQALHNKSTDN
Pr LEDLDDLKHYVKDVSEYIGAKAGDLLDQNLNTLKP LLERKS FETFEQALHNKNTDN
Pg DEDLNDLKIYVKDISEYVGLKAADLLDKNLEELKPIILTKKAFDSFENNLNKNIIDD
Pk EEDISDFKNYLKDMSEYIGLKAADILNSNLEESLKSFLPKGSFANLKEAMGSSSPVN
Pv DQDKDLKKNYLKDMSEYIGLKAADILNSNIEESLKP LLSNSFASLKEAMGSTSAVD
Py DEDIKNLKIYVKEISGYVGLKAADLLDKNLENALKPLIENKS---ESKLSNEGTS
Pb DDDIKNLKIYVKEISGYVGLKAADLLDKNLESALKPLIENKSFDKSEKLSNEGTS
Pc DDDIKNLKIYVKDISEYVGLKAADLLDKNLENALKPIIENKSGDKPEKLSNEGTS
Cons : * . . * * * : *

Pf F-----
Pr F-----
Pg V-----
Pk LNFDEDEGETK-----KGKSKKGYKKGYSNDENA--
Pv LKIDDEDETKEEKAKEEKAKEVKAkakakakakkgdskkedskkgskdENAKD
Py F-----
Pb F-----
Pc F-----
Cons

Pf -----VPFEENKSGNANEETENFVDELVEDYKTKNPDLEEQ-----
Pr -----VPFEENDKSGNANEETEFVDELVEEYENTKNPDLEEQ-----
Pg -----EY-EENPNDENVNEETETFVNELVNDYENNQLDSDLQY-----
Pk -----NDENANDEDVDETTEDFINELVDAYEEKHKKDLENY-----
Pv ENAKDDNSSDGNSDDNDMDVDEATEDFINELVDVYEEENQKDLLEY-----
Py -----RFNNEIIDDEDPEEEIDHFADELADYEYEVKQENLEQYENLDQYEN
Pb -----RFNNEIIDDEDPEEEIDHFAADLTDKYEVKQENLEQY-----
Pc -----RFNNEIIDDEDPEQEIDHFAADLTDYEYEVKQIENLEHY-----
Cons : : . . : : : * : * * * * * * * * * * . * : .

Pf -----TKDIKTHSDSD
Pr -----TKDIKTPSDSD
Pg -----EKEIKTHNNLD
Pk -----AQEIKNHNLD
Pv -----AQEIKTHNNLD
Py LDQYGNFDQYEKDINPHH---
Pb -----EKDINPHH---
Pc -----DQEINPHH---
Cons : * * :