

logo

NTDB id 409115 GP482 RS04615 WP 039696677.1

NTDB id 479 HSISS4 RS06980 WP 021143812.1

NTDB id 296 STER RS06910 WP 011681415.1

NTDB id 328 STU RS16110 WP 002951426.1

consensus

MPEKLV**DIR**NLEISFGEGSKKFTAV**K**NANFFINKGETFSLVGESGSGKTTI**A**RAIVGLN**D**TSNGEII**F**DGKK**I**NGYLSHS

MPEKLV**DIR**NLEISFGEGSKKFTAV**K**NANFFINKGETFSLVGESGSGKTTI**A**RAIVGLN**D**TSNGEII**F**DGKK**R**INTRLSKA

MPEKLVEVKD**D**VEISFGEGSKKFFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLN**D**TSNGEII**F**DGKKINGHLSHS

MPEKLVEVK**N**VEISFGEGRKKFFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLN**D**TSNGEII**F**DGKKINGYLSHS

MPEKLVEVKD**D**VEISFGEGRKKFFVAVHNANFFINKGETFSLVGESGSGKTTIGRAIIGLN**D**TSNGEII**F**DGKKINGYLSHS

!!!!!!!!*** *!!!!!!!! !!!!!*!*!!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!

80

80

80

80

logo

NTDB id 409115 GP482 RS04615 WP 039696677.1

NTDB id 479 HSISS4 RS06980 WP 021143812.1

NTDB id 296 STER RS06910 WP 011681415.1

NTDB id 328 STU RS16110 WP 002951426.1

consensus

EK**N**DLIRRIQMIFQDPAASLNERATVDYI**L**SEGLYN**F**HL**K**YKDEEER**K**AK**I**KEI**I**KEVGLL**E**EHLTRYPH**E**FGGQRQRIG

EK**N**DLIRRIQMIFQDPAASLNERATVDYI**L**SEGL**H**NFHL**K**YKDEEER**D**RKAK**I**KEI**I**KEVGLL**E**EHLTRYPH**E**FGGQRQRIG

EKNDLIRRIQMIFQDPAASLNERATVDYI**L**SEGLYN**F**HL**K**YKDEEER**K**AK**I**KEI**I**KEVGLL**E**EHLTRYPH**E**FGGQRQRIG

EKNDLIRRIQMIFQDPAASLNERATVDYI**L**SEGLYN**F**HL**K**YKDEEER**K**AK**I**KEI**I**KEVGLL**E**EHLTRYPH**E**FGGQRQRIG

!!!!!!!!**!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!

160

160

160

160

logo

NTDB id 409115 GP482 RS04615 WP 039696677.1

NTDB id 479 HSISS4 RS06980 WP 021143812.1

NTDB id 296 STER RS06910 WP 011681415.1

NTDB id 328 STU RS16110 WP 002951426.1

consensus

IAR**S**L**V**MQ**P**DLVIADEPISALDVS**V**RAQVLNLL**K**Q**F**Q**E**LGLTYLFIAHDLSVVR**F**ISDRIA**V**I**H**QGV**I**VE**A**ETEEL**F**YN

IAR**S**L**V**MQ**P**DLVIADEPISALDVS**V**RAQVLNLL**K**Q**F**Q**E**LGLTYLFIAHDLSVVR**F**ISDRIA**V**I**H**QGV**I**VE**A**ETEEL**F**YN

IARSLVMQ**P**DLVIADEPISALDVS**V**RAQVLNLL**K**Q**F**Q**E**LGLTYLFIAHDLSVVR**F**ISDRIA**V**I**H**QGV**I**VE**A**ETEEL**F**YN

IARSLVMQ**P**DLVIADEPISALDVS**V**RAQVLNLL**K**Q**F**Q**E**LGLTYLFIAHDLSVVR**F**ISDRIA**V**I**H**QGV**I**VE**A**ETEEL**F**YN

!!!!!!!!**!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!

240

240

240

240

logo

NTDB id 409115 GP482 RS04615 WP 039696677.1

NTDB id 479 HSISS4 RS06980 WP 021143812.1

NTDB id 296 STER RS06910 WP 011681415.1

NTDB id 328 STU RS16110 WP 002951426.1

consensus

NP**I**HPYTKSLLSA**V**PI**P**DP**I**LER**K**K**V**L**K**VYDPNQHDY**S**VD**K**P**E**W**E**VR**P**GH**F**W**G**N**K**T**E**I**E**TYR**K**E**Q**SK

NP**I**HPYTKSLLSA**V**PI**P**DP**I**LER**K**K**V**L**K**VYDPNQHDY**S**VD**K**P**E**W**E**VR**P**GH**F**W**G**N**K**T**E**I**E**TYR**K**E**Q**SK

NP**I**HPYTKSLLSA**V**PI**P**DP**I**LER**K**K**V**L**K**VYDPNQHDY**S**VD**K**P**E**W**E**VR**P**GH**F**W**G**N**K**T**E**I**E**TYR**K**E**Q**SK

NP**I**HPYTKSLLSA**V**PI**P**DP**I**LER**K**K**V**L**K**VYDPNQHDY**S**VD**K**P**E**W**E**VR**P**GH**F**W**G**N**K**T**E**I**E**TYR**K**E**Q**SK

!!!!!!!!!!!!!!!!!!!!!!!!!*!*!!!!!!!!!!!!!!!!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!

308

309

309

309

X

non conserved

X

similar

X

≥ 50% conserved