

logo

NTDB id 1018011 ABZS47 RS06005 WP 003661250.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

MFSFFRRKKKQETPAL~~EE~~AQVQETA~~AA~~KVESEVAQIVGNIKEDVESLAESVKGRAESAVETVSGAVEQVKETVAEMPSEAG
.....
MFSFFRRKKKQETPAL~~EE~~AQVQETA~~AA~~KVESEVAQIVGNIKEDVESLAESVKGRAESAVETVSGAVEQVKETVAEMPSEAG

0
80

logo

NTDB id 1018011 ABZS47 RS06005 WP 003661250.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

EAAERVESAKEAVAETVGEAVGQVQEAV~~MS~~TE~~EN~~HKLGWFSR~~ML~~KQGLSKS~~SK~~NMSKS~~LV~~NVLYGGKQIGEEYEEVETVLL
.....
MSEN~~E~~KGGWFSR~~ML~~KAGLSKSSKNLSEGLVNVLVGGKQID~~DE~~LLEEVEDQLL
EAAERVESAKEAVAETVGEAVGQVQEAV~~MS~~TE~~EN~~HKLGWFSR~~ML~~KAGLSKSSKNLSEGLVNVLVGGKQID~~DE~~LLEEVEDQLL
***** *!

51
159

logo

NTDB id 1018011 ABZS47 RS06005 WP 003661250.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

VGD~~MG~~W~~AT~~NYLM~~KN~~VTGRVSRKGLKYSNE~~LY~~KALKTEL~~YD~~LLT~~PL~~VK~~PL~~YLPT~~TK~~PYVIMMYGYNGXGKTT~~IS~~IGKLAK
.....
VADIG~~V~~NATNR~~IK~~NLTEQTARGDLIYSHALYKALKTEL~~TD~~ILTPKVA~~PL~~IID~~TT~~KKPYVILMVGVNGVGKTTTIGKLAK
TGD~~MG~~EATEYLMK~~DV~~RGRVSLKGLK~~DG~~NELRGALKEALYDLIKPLEK~~PL~~VLPETKPEFVIMLAGINGAGKTTSIGKLAK
***** *!

131
239

logo

NTDB id 1018011 ABZS47 RS06005 WP 003661250.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

YL~~Q~~NQ~~G~~KSVMLAAGDTFRAAA~~TE~~QLQ~~W~~GRN~~MT~~VI~~S~~QTTGSDSASV~~IF~~DAMQSAKARGID~~W~~YLTADTAGRL~~OT~~QTHLMN
.....
RLQNE~~G~~KSVMLAAGDTFRAAA~~TE~~QLQ~~W~~GRN~~MT~~VI~~S~~QTTGSDSASV~~IF~~DAMQSAKARGID~~W~~YLTADTAGRL~~OT~~QTHLMN
YFQA~~G~~KSVMLAAGDTFRAAA~~TE~~QLQ~~W~~GRN~~MT~~VI~~S~~QTTGSDSAAVCFDAVQA~~AK~~ARGID~~IV~~LADTAGRLPTQLHLME
***** *!

211
318

logo

NTDB id 1018011 ABZS47 RS06005 WP 003661250.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

E~~L~~K~~V~~R~~V~~M~~Q~~K~~G~~I~~P~~T~~A~~P~~H~~E~~T~~M~~V~~L~~D~~A~~N~~T~~G~~Q~~N~~A~~V~~N~~Q~~V~~Q~~V~~F~~S~~E~~A~~V~~N~~L~~T~~G~~I~~S~~V~~T~~K~~L~~D~~G~~T~~A~~K~~G~~G~~V~~F~~N~~L~~A~~S~~N~~T~~P~~V~~P~~V~~R~~Y~~I~~G~~V~~G~~E~~
.....
E~~L~~K~~V~~V~~R~~V~~M~~K~~K~~C~~D~~E~~T~~A~~P~~H~~E~~T~~M~~V~~L~~D~~A~~N~~T~~G~~Q~~N~~A~~I~~N~~Q~~V~~Q~~V~~F~~S~~E~~A~~V~~N~~L~~T~~G~~I~~S~~V~~T~~K~~L~~D~~G~~T~~A~~K~~G~~G~~V~~F~~N~~L~~A~~S~~N~~T~~P~~V~~P~~V~~R~~Y~~I~~G~~V~~G~~E
E~~L~~K~~V~~K~~R~~V~~L~~Q~~K~~A~~I~~P~~G~~A~~P~~H~~E~~I~~V~~V~~L~~D~~A~~N~~I~~G~~Q~~N~~A~~V~~N~~Q~~V~~K~~A~~F~~D~~D~~A~~L~~G~~T~~G~~L~~I~~V~~T~~K~~L~~D~~G~~T~~A~~K~~G~~G~~I~~L~~A~~A~~L~~A~~S~~D~~R~~P~~V~~P~~V~~R~~Y~~I~~G~~V~~G~~E
***** *!

291
398

logo

NTDB id 1018011 ABZS47 RS06005 WP 003661250.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

G~~I~~D~~D~~L~~R~~P~~F~~K~~P~~R~~D~~F~~V~~D~~A~~L~~L~~E~~K~~E
.....
G~~I~~D~~D~~L~~R~~P~~F~~K~~P~~R~~D~~F~~V~~D~~A~~L~~L~~E~~K~~E
G~~I~~D~~D~~L~~R~~P~~F~~D~~A~~R~~A~~F~~V~~D~~A~~L~~L~~D~~...~~

313
417

non conserved
 similar
 ≥ 50% conserved