

logo

NTDB id 1167882 AB8525 RS03110 WP 369178555.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

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

0
80

logo

NTDB id 1167882 AB8525 RS03110 WP 369178555.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

EAAERVESAKEAVAETVGEAVGVQVE~~AF~~FAFF~~EE~~EDL~~E~~KAARL~~E~~GLA~~L~~SRQ~~MG~~SS~~SS~~VL~~G~~KKT~~G~~ENLY~~EE~~ETVLI
.....MFNFFKK~~D~~KVEKSTS~~L~~KERL~~V~~KSRQ~~K~~LGSG~~L~~SS~~L~~LGKKT~~I~~DENL~~L~~EELEMLLI
EAAERVESAKEAVAETVGEAVGVQVEAVATTEEH~~K~~L~~G~~WAAR~~L~~KQGL~~A~~KSRD~~K~~MAKS~~L~~AG~~V~~FGGQ~~I~~GEDLY~~EE~~ETVLI

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159

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consensus

TGDMGKTE~~Y~~MKLV~~R~~KRVTR~~K~~I~~L~~KNTNEL~~Y~~NFL~~K~~NELV~~K~~LL~~L~~DDN~~L~~LLPE~~Q~~K~~E~~TFVIM~~Y~~GYNGAGKTTISIGKLAK
SADIGIKT~~T~~E~~V~~EL~~V~~RKNA~~T~~R~~K~~IL~~K~~NTEEL~~Y~~NFL~~K~~NELV~~K~~LL~~L~~DDN~~L~~LLPE~~Q~~K~~E~~TFVIM~~Y~~GYNGAGKTTISIGKLAK
TGD~~M~~G~~E~~A~~T~~E~~Y~~L~~M~~K~~D~~V~~R~~GRV~~S~~L~~K~~GL~~K~~DGNEL~~R~~GA~~L~~KEALYD~~L~~IK~~P~~LE~~K~~PLV~~L~~PET~~K~~EPFVIM~~L~~AGINGAGKTTISIGKLAK

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239

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consensus

YFQ~~N~~Q~~G~~K~~S~~V~~M~~LAAGDTFR~~A~~AAV~~E~~QL~~Q~~V~~W~~GRN~~S~~Y~~T~~V~~S~~QT~~G~~D~~S~~AS~~V~~IF~~D~~AY~~Q~~S~~A~~Q~~A~~R~~G~~DI~~L~~Y~~L~~ADTAGRLPTQL~~H~~LMQ
SFQ~~N~~Q~~G~~K~~S~~V~~M~~LAAGDTFR~~A~~AAV~~E~~QL~~Q~~V~~W~~GRN~~S~~Y~~T~~V~~S~~QT~~G~~D~~S~~AS~~V~~IF~~D~~AY~~Q~~S~~A~~Q~~A~~R~~G~~DI~~L~~Y~~L~~ADTAGRLPTQL~~H~~LMQ
YFQ~~N~~Q~~G~~K~~S~~V~~M~~LAAGDTFR~~A~~AAV~~E~~QL~~Q~~V~~W~~GRN~~S~~Y~~T~~V~~S~~QT~~G~~D~~S~~AS~~V~~IF~~D~~AY~~Q~~S~~A~~Q~~A~~R~~G~~DI~~L~~Y~~L~~ADTAGRLPTQL~~H~~LMQ

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318

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NTDB id 1167882 AB8525 RS03110 WP 369178555.1
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consensus

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

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398

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consensus

G~~I~~N~~D~~L~~R~~P~~F~~S~~A~~R~~E~~F~~Y~~E~~A~~L~~F~~D
G~~I~~N~~D~~L~~K~~P~~F~~S~~A~~K~~E~~F~~I~~E~~A~~L~~F~~D 311
G~~I~~D~~D~~L~~R~~P~~F~~D~~A~~R~~A~~F~~V~~D~~A~~L~~L~~D 417

non conserved
 similar
 ≥ 50% conserved