

logo

NTDB id 1001915 ABDB91 RS11660 WP 347487890.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

MFSFFRRKKKQETPAL~~EE~~AQVQETAAKVESEVAQIVGNIKEDVESLAESVKGRAESAVETVSGAVEQVKETVAEMPSEAG
.....
MFSFFRRKKKQETPAL~~EE~~AQVQETAAKVESEVAQIVGNIKEDVESLAESVKGRAESAVETVSGAVEQVKETVAEMPSEAG

0
80

logo

NTDB id 1001915 ABDB91 RS11660 WP 347487890.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

EAAERVESAKEAVAETVGEAVGQVQEAVATTEEHKLMGWF~~SR~~LKQGLSKTRKNNMKSIDGWVGRKY|GEELVEELETVL|
.....MGLFSK~~L~~KDGLSKTRKNFVEKID~~AI~~VTGRKVIDEELYEELEEALID
EAAERVESAKEAVAETVGEAVGQVQEAVATTEEHKLGWAARLKQGLAKSRDKMAKSLAGVF.GGGQIGEDLYEELETVLI
*****! *!! !! !! * * * * ! ! *!!!!!! !!

45
159

logo

NTDB id 1001915 ABDB91 RS11660 WP 347487890.1
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consensus

TGDMGMEATLYLVKNVRSRVSLRRLKDPNELRGVKE~~LL~~YGLLKPLTKSYNPETKQPFVIMVGYNGXGKTTJ|GKLAK
QADVGIDASLELVENLRSEVKKRRIGDPEELRAVLKELIQGILGEETG.SINIDGEQPAVIMVGVNGVGKTTTIGKLAH
TGD~~MG~~MEATEYLAKDVRGRVSLKGLKDCNELRGALKEALYDLIKPLEKPLVLPETKEPFVIMLAGINGAGKTTSIGKLAK
*!*****! * * ! * * * !! * !! * * * * ! *!!!!!! *!!!!!!

124
239

logo

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consensus

YFQESGKSVLLSAGDTFR~~AA~~AREQLQI~~WG~~NRNVTVISOTTGSDSAAVCFD~~SY~~QAARARKIDVYLDTAGRLPTQSNLME
YFKESGKSVLLSADTFR~~AA~~AI~~DQ~~LEI~~WG~~NRVGGAVIKHSEGS~~DP~~AAVAFDSLQAARARKIDVLI~~VD~~TAGRLHTKSNLME
YFQAQGKSVLLSACDTFR~~AA~~AREQLQAWGGRNNVTVISOTTG.DSAAVCFDAVQAARARGIDIVLADTAGRLPTQLHLME
!! !!!!!!! *!!!!!! *!! !! ! !! * * ! * * ! * * ! * * ! * * ! * * ! * * ! * * ! * * ! * * !

204
318

logo

NTDB id 1001915 ABDB91 RS11660 WP 347487890.1
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consensus

ELKKVHRVLG~~RE~~MPGAPHEVLLVLDATTGQNAISQARLFKEAVGVTGV~~AL~~TKLDGTAKGGV~~IA~~IKQGLDIP~~IK~~MIGVGE
ELKKVHRVLG~~RE~~MPGAPHEVLLVLDATTGQNAISQARLFKEAVGVTGV~~AL~~TKLDGTAKGGV~~IA~~IKQGLDIP~~IK~~MIGVGE
EIKKV~~K~~RVLQKATPGAPHEIIVVLDANIGQNAV~~NQ~~VFDDALGLTGLIVTKLDGTAKGGILAA~~AS~~DRPV~~VP~~RYIGVGE
*!!!!!! * *!!!!!! *!!!!!! *!!!!!! *!!!!!! *!!!!!! *!!!!!! *!!!!!! *!!!!!! *!!!!!! *!!!!!! *!!!!!!

284
398

logo

NTDB id 1001915 ABDB91 RS11660 WP 347487890.1
NTDB id 1118 NGFG RS11455 WP 003696286.1
consensus

GIDDLRPFDA~~RE~~FADALFV~~K~~DNQAAEQAG
GIDDLRPFDA~~RE~~FADALFV~~K~~DNQAAEQAG 313
GIDDLRPFDA~~RE~~FV~~D~~ALLD..... 417
!!!!!!!!!!!!!! !!!!! *****

☒ non conserved

☒ similar

☒ ≥ 50% conserved