```
logo
NTDB id 347016 EXW56 RS05735 WP 215597296.1  MSLRFVIGRAGSGKSTLCLHEVQEELKQRPRGKTILYLVPEQMTFQTQQALIGSEDVRGSIRAQVFSFSRLAWKVLQEVG   80
NTDB id 120 BSU 10620 NP 388943.2            MGAEFLVGRSGSGKTKLIINSIQDELRRAPFGKPIIFLVPDQMTFLMEYELAKTPDMGGMIRAQVFSFSRLAWRVLQHTG   80
consensus                                    !   !**!! !!!!* !*** *!*!!*  ! !!*!**!!!*!!!!     !  **!* ! !!!!!!!!!!!!!*!!!* !

logo
NTDB id 347016 EXW56 RS05735 WP 215597296.1  GASRLHIDEAGVHMLLRKIVESRKDGLSVRQKAAEQNGFFEHLGSMIAEFKRYNVTPSNVYEMWQQLDTHSSSAEQKLLA  160
NTDB id 120 BSU 10620 NP 388943.2            GMSRPFLTSTGVQMLLRKLIEEHKQEFKVYQKASDKSGFTAQVERMLTEFKRYCLEPEDIRRMAES.GTASEYRGERVLS  159
consensus                                    ! !!***   !!*!!!!!**! *!    !*!!! *  !!  **  !* !!!!!** !  *  !   * !*!     **!

logo
NTDB id 347016 EXW56 RS05735 WP 215597296.1  NKVYDLQLLYDDFERALIGKYLDSEDYLQLLIEKLSDSEYVKGAEIYIDGFHSFSPQELEIVRGLMRLGTRVTITLTIDE  240
NTDB id 120 BSU 10620 NP 388943.2            EKLHDLSILYQQMEKSLADQYLHSEDYLTLLAEHIPLAEDIKGAHIYVDGFYQFTPQEFRVLEQLMVHAEHITFSLTADK  239
consensus                                     !**!! *!!   !* !   !!*!!!!! !! !***  ! *!!!*!!*!!!* !*!!!  **  !! ** **! *!! !

logo
NTDB id 347016 EXW56 RS05735 WP 215597296.1  KTLAQPVNELDLFYETTLTYERIKQVAREEKIEVEKTIPLMEQPRFHSQALAHLEMHYEARPNEKFHGE.ASVTISTAAN  319
NTDB id 120 BSU 10620 NP 388943.2            PSYERPEPHELELFRMTGKTYYRLHQKAKELNLDITYKELSGTERHTKTPELAHLEAQYEARPAIPYAEKQEALTVMQAAN  319
consensus                                    **   ***!!*!!  !  !! !**! !*!  ***   *   ** *** !!!!! *!!!!!  ***  *  *!*  !!!

logo
NTDB id 347016 EXW56 RS05735 WP 215597296.1  LRAEVEGVAREIRRLVAAEDYRYRDIAVLLRNGESYYDVMRTLFTDYNIPHFIDEKRPMSHHPLVECIRSALEIISGNWR  399
NTDB id 120 BSU 10620 NP 388943.2            RRAELEGIAREIHALVREKGYRYKDVAILARQPEDYKDMVKEVFADYEIPYFIDGKASMLNHPLIEFIRSSLDVLKGNWR  399
consensus                                     !!!*!!*!!!!* !!    !!!*!*!*! !**! ! !*** *! !! !!*!!! ! *! *!!!*!*!!! !*** !!!!

logo
NTDB id 347016 EXW56 RS05735 WP 215597296.1  YDAVFRCVKTELLYPLDVRKEAMREEMDEFENYCLAYGVQGKRWTSEDPWMYRRYRSLDDASEMITDSEREMEEKINRLR  479
NTDB id 120 BSU 10620 NP 388943.2            YEAVFRCVKTELLFPLNEPKAKVREQVDQLENYCIAYGIKGDRWTKGDRFQYRRFVSLDDDFA.QTDQEIEMENMLNDTR  478
consensus                                    !*!!!!!!!!!!!*!!   *!   *!! *!   !!!!*!!!* ! !!!   !** !!!* !!!!    * !! ! !!!   *!   !

logo
NTDB id 347016 EXW56 RS05735 WP 215597296.1  DVVRTPVIRMQKRLKRAGTVMQMCEAVYLFLEELDVPKKLEALRIRAEESGDFLFATDHEQVWEEVMSLLDTFVEMLGEE  559
NTDB id 120 BSU 10620 NP 388943.2            DWIVPPLFQLQKRMKKAKTVQEKAEALYRYLEETDVPLKLDQERQRAEDDGRIIEAQQHQQAWDAVIQLLEEFVEMMGDD  558
consensus                                    ! * *!*  *!!!*!*! !!   *!!*! *!!! !!! !!*  ! !!!* !  * !  ! ! !* !* !!* !!!!*!**
```

```
logo

NTDB id 347016 EXW56 RS05735 WP 215597296.1  KMSLSMFTDVMTTGLEALQFANIPPSLDQVLVANIDHSRLSDIKATFIIGVNEGVIPAAPMDEGMLSDEERNVLTAAGIE  639
NTDB id 120 BSU 10620 NP 388943.2            EISLDLFQQMIEAGAESLTFSLIPPALDQVFVGNMDLSRMYGTSCTFVLGANDGVLPARPDENGVLSDDDREWLKTIGVE  638
consensus                                     *!! *!  **  ! ! ! ! !!! !!!! !*!*!*!!*    *!!**! !*!!*!! ! * !*!!!**!   !    !*!

logo

NTDB id 347016 EXW56 RS05735 WP 215597296.1  LAPTTRQTLLEEQFVMYQMVTRASEKLYISCPLADEEGKTLLASSFIKKIKRMFPDVKETFITNDVNDLSRSEQISYVTT  719
NTDB id 120 BSU 10620 NP 388943.2            LSSGGRERLLDEHFLIYMAFSSPSDRLYVSYPIADAEGKTLLPSMIVKRLEELFPHHKERLLTNEPEQVSDEEQLMYVVN  718
consensus                                    ! *  !  !!*!*!**!   * *!**!!*!*!!! !!!!!!*!  *!**  *!!**!!  *!!**  *!  !!* !!

logo

NTDB id 347016 EXW56 RS05735 WP 215597296.1  PEVTLSYVMQQLQTWKRYGFEGNLDFWWDVYNFYVTSDEWKQKSSRVLSSLFYRNRAQKLSTDVSRDLYGDTIKGSVSRM  799
NTDB id 120 BSU 10620 NP 388943.2            KSVAQSFTASQLRLWTREY..DISDVWWSTYNVLMSEQD.RLQSKKLFSSLFFRNEVKQLERSVSRQLYGERIQGSVSRM  795
consensus                                    * !  !*   !!  ! !  **   ! !!  !!  **  ***  ! ** !!!!*!!    !   !!! !!!* ! !!!!!!

logo

NTDB id 347016 EXW56 RS05735 WP 215597296.1  ELFNRCAYAHFAQHGLSLRERDIFKLDAPDIGELFHAALKRIADKLLRENRTWADLSIKECEHLSALVIEEIAPLLQRQI  879
NTDB id 120 BSU 10620 NP 388943.2            ETFNACPFSHFASHGLHLKERQFFKLEAPDIGQLFHSSLKLISDRLREQKLDWRDLTKEQCELFSYDAVERLAPKLQKEI  875
consensus                                    ! !!  !** !!!  !!!*!*!!  !!!*!!!!! !!!  !! ! !*!      ! !!*   !!* !   *! *!! !!* !

logo

NTDB id 347016 EXW56 RS05735 WP 215597296.1  LLSSNRHFYLKQKLQQIIFRTSLILREHAKSSGFVPVDLEVPFGMGGTGSLPPMEFALPNGVKMEVVGRIDRVDKAEDES  959
NTDB id 120 BSU 10620 NP 388943.2            LLSSNRHYYVKEKLQKIVTRVSGILSEHAKASGFVPIGLEL..GFGGKGPLPPLTFQLKNGCTMELVGRIDRVDKAESSK  953
consensus                                    !!!!!!!*!*! !!! !* ! ! !! !!!! !!!!!* !!***! !! !*!!!* ! !*!!* !!*!!!!!!!!!!!

logo

NTDB id 347016 EXW56 RS05735 WP 215597296.1  GTFLRIIDYKSSSKALDLTEVYYGLALQMLTYLDVVTSNAHTWMKKGSTASPAGVLYFHIHNPIVEMKGDASEEEIEKEI  1039
NTDB id 120 BSU 10620 NP 388943.2            GLLLRIVDYKSSDKGLDLAEVYYGLALQMLTYLDLSITHSADWL..GMRATPAGVLYFHIHDPMIQSNLPLGLDEIEQEI  1031
consensus                                    !   !!!*!!!!! !*!!! !!!!!!!!!!!!!!!*  ** * !***!  !*!!!!!!!!!! !**    *   *!!! !!

logo

NTDB id 347016 EXW56 RS05735 WP 215597296.1  LKKFKMKGLVLGDADVVRLMDNKLSTGSSDIISAGLKKDGSFSARSSIASEQEFNVLQKYVHHSFENIGKDITEGVIDIA  1119
NTDB id 120 BSU 10620 NP 388943.2            FKKFKMKGLLLGDQEVVRLMDTTLQEGRSNIINAGLKKDGSLRSDSAAVGEKEFDLLTKHVRRTFQEAGEQITDGRVSIE  1111
consensus                                     !!!!!!!!!*!!! *!!!!!!  !  ! ! !! !!!!!!!!   !   ! !! *! !*!***!   !  !!*! * !
```

```
logo

NTDB id 347016 EXW56 RS05735 WP 215597296.1  PYKKGNKAACTFCNFKSVCQFDESLEDNQFRMLKDMKDSEAMEKIREEVGGE...  1171
NTDB id 120 BSU 10620 NP 388943.2            PYKMKNKTPCTYCAFKSVCQFDESLEENEYRPLKAEKDKTILEWIKKEADGNEHS  1166
consensus                                    !!!  !! *!!*! !!!!!!!!!!!!*! *!*!!  !!   *! !* !  ! ***
```

X non conserved

X similar

X $\geq$ 50% conserved