```
logo
NTDB id 225538 B7P25 RS05950 WP 087931412.1  MSLRFVIGRAGSGKSTLCLHEVQEELKQRPRGETILYLVPEQMTFQTQQALIGSEDVRGSIRAQVFSFSRLAWKVLQEVG   80
NTDB id 120 BSU 10620 NP 388943.2            MGAEFLVGRSGSGKTKLIINSIQDELRRAPFGKPIIFLVPDQMTFLMEYELAKTPDMGGMIRAQVFSFSRLAWRVLQHTG   80
consensus                                    !   !**!! !!!!* !*** *!*!!*  ! ! *!**!!!*!!!!     !  **!* ! !!!!!!!!!!!!!*!!!* !

logo
NTDB id 225538 B7P25 RS05950 WP 087931412.1  GASRLHIDEAGVHMLLRKIVESRKDGLSVRQKAAEQNGFFEHLGSMIAEFKRYNVTPSNVYEMWQQLDTHSSSAEQKLLA  160
NTDB id 120 BSU 10620 NP 388943.2            GMSRPFLTSTGVQMLLRKLIEEHKQEFKVYQKASDKSGFTAQVERMLTEFKRYCLEPEDIRRMAES.GTASEYRGERVLS  159
consensus                                    ! !!***   !!*!!!!!**! *!    !*!!! *  !!  **  !* !!!!!** !  *  !   * !*!     **!

logo
NTDB id 225538 B7P25 RS05950 WP 087931412.1  NKVYDLQLLYDDFERALIGKYLDSEDYLQLLVEKLPQSEYVKGAEVYIDGFHSFSPQELEIVRQLMICGARVTITLTIDE  240
NTDB id 120 BSU 10620 NP 388943.2            EKLHDLSILYQQMEKSLADQYLHSEDYLTLLAEHIPLAEDIKGAHIYVDGFYQFTPQEFRVLEQLMVHAEHITFSLTADK  239
consensus                                     !**!! *!!   !* !   !!*!!!!! !! !**!  ! *!!!**!*!!!* !*!!!  ** !!!* * **! *!! !

logo
NTDB id 225538 B7P25 RS05950 WP 087931412.1  KTLAQPVNELDLFYETTLTYEKIKQVAREEKIEIEKTIPLMEQPRFHSPALAHLEMHYEARPNEKFHGE.ASVTIHTAAN  319
NTDB id 120 BSU 10620 NP 388943.2            PSYEREPHELELFRMTGKTYYRLHQKAKELNLDITYKELSGTERHTKTPELAHLEAQYEARPAIPYAEKQEALTVMQAAN  319
consensus                                    **   ***!!*!!  !  !! ***! !*!  **!    *    ** **! !!!!! *!!!!!  ***  *  *!** !!!

logo
NTDB id 225538 B7P25 RS05950 WP 087931412.1  LRAEVEGVAREIRRLVAEENYRYRDIAVLLRNGESYYDVMRTLFTDYNIPHFIDEKRPMSHHPLVECIRSALEIISGNWR  399
NTDB id 120 BSU 10620 NP 388943.2            RRAELEGIAREIHALVREKGYRYKDVAILARQPEDYKDMVKEVFADYEIPYFIDGKASMLNHPLIEFIRSSLDVLKGNWR  399
consensus                                     !!!*!!*!!!!* !! !  !!!*!*!*! !**! ! !*** *! !! !!*!!! ! *! *!!!*!*!!! !*** !!!!

logo
NTDB id 225538 B7P25 RS05950 WP 087931412.1  YDAVFRCVKTELLYPLDVRKETMREEMDEFENYCLAYGVQGKRWTSEDPWMYRRYRSLDDTNGMITDSEREMEEKINRLR  479
NTDB id 120 BSU 10620 NP 388943.2            YEAVFRCVKTELLFPLNEPKAKVREQVDQLENYCIAYGIKGDRWTKGDRFQYRRFVSLDDDFA.QTDQEIEMENMLNDTR  478
consensus                                    !*!!!!!!!!!!!*!!   *!   *!! *!  !!!!*!!!* ! !!!   !** !!!* !!!!  ** !! ! !!!   *!  !

logo
NTDB id 225538 B7P25 RS05950 WP 087931412.1  DVVRTPVIRMQKRLKRAGTVMQMCEAVYLFLEELDVPKKLEALRIRAEENGDFLFATDHEQVWEEVMSLLDTFVEMLGEE  559
NTDB id 120 BSU 10620 NP 388943.2            DWIVPPLFQLQKRMKKAKTVQEKAEALYRYLEETDVPLKLDQERQRAEDDGRIIEAQQHQQAWDAVIQLLEEFVEMMGDD  558
consensus                                    ! * *!*  *!!!*!*! !!   *!!*! *!!! !!! !!*  ! !!!* !  * !  ! ! !* !* !!* !!!!*!**
```

```
logo

NTDB id 225538 B7P25 RS05950 WP 087931412.1  KMSLSMFTDVMSTGLEALQFANIPPSLDQVLIANIDRSRLSNVKATFVIGVNEGVIPAAPMDEGMLSDEERDVLSAAGIE   639
NTDB id 120 BSU 10620 NP 388943.2            EISLDLFQQMIEAGAESLTFSLIPPALDQVFVGNMDLSRMYGTSCTFVLGANDGVLPARPDENGVLSDDDREWLKTIGVE   638
consensus                                     *!! *!  **  ! ! ! !  !!! !!!! **!*! !!*    *!!!*! !*!!*!! ! * !*!!!**!* !   !*!

logo

NTDB id 225538 B7P25 RS05950 WP 087931412.1  LAPTTRQTLLEEQFVMYQMVTRATEKLYISCPLADEEGKTLLASSFIKKIKRMFPDVKDTFITNDVNDLSRLEQISYVAT   719
NTDB id 120 BSU 10620 NP 388943.2            LSSGGRERLLDEHFLIYMAFSSPSDRLYVSYPIADAEGKTLLPSMIVKRLEELFPHHKERLLTNEPEQVSDEEQLMYVVN   718
consensus                                    ! *  !  !!*!*!**!   * ****!!*!*!!  !!!!!!*!  *!**  *!!**!*  *!!**  *!  !!* !!

logo

NTDB id 225538 B7P25 RS05950 WP 087931412.1  PEVTLSYVMQQLQTWKRYGFEGNLDFWWDVYNFYVTSDEWKQKSSRVLSSLFYRNRAQKLSTAVSRDLYGDKIKGSVSRM   799
NTDB id 120 BSU 10620 NP 388943.2            KSVAQSFTASQLRLWTREY..DISDVWWSTYNVLMSEQD.RLQSKKLFSSLFFRNEVKQLERSVSRQLYGERIQGSVSRM   795
consensus                                    * !  !*   !!  ! !  **   ! !!  !!  **  ***  ! ** !!!!*!!    !   !!! !!!**! !!!!!!

logo

NTDB id 225538 B7P25 RS05950 WP 087931412.1  ELFNRCAYAHFAQHGLSLRERDIFKLDAPDIGELFHAALKRIADRLLRENRTWADLSIKECEHLSAVVIEEIAPLLQRQI   879
NTDB id 120 BSU 10620 NP 388943.2            ETFNACPFSHFASHGLHLKERQFFKLEAPDIGQLFHSSLKLISDRLREQKLDWRDLTKEQCELFSYDAVERLAPKLQKEI   875
consensus                                    ! !!  !** !!!  !!!*!*!!  !!!*!!!!! !!!  !! ! !!!      ! !!*   !!* !   *! *!! !!* !

logo

NTDB id 225538 B7P25 RS05950 WP 087931412.1  LLSSNRHFYLKQKLQQIIFRTSIILREHAKSSGFVPVDLEVPFGMGGTGSLPPMEFSLPNGVKMEVVGRIDRVDKAEDEN   959
NTDB id 120 BSU 10620 NP 388943.2            LLSSNRHYYVKEKLQKIVTRVSGILSEHAKASGFVPIGLEL..GFGGKGPLPPLTFQLKNGCTMELVGRIDRVDKAESSK   953
consensus                                    !!!!!!!*!*! !!! !* ! ! !! !!!! !!!!!* !!***! !! !*!!!* ! !*!!* !!*!!!!!!!!!!!

logo

NTDB id 225538 B7P25 RS05950 WP 087931412.1  GTFLRIIDYKSSSKALDLTEVYYGLALQMLTYLDVVTSNAQTWMKKGGTASPAGVLYFHIHNPIVEVKGDASEAEIEKEI  1039
NTDB id 120 BSU 10620 NP 388943.2            GLLLRIVDYKSSDKGLDLAEVYYGLALQMLTYLDLSITHSADWLG..MRATPAGVLYFHIHDPMIQSNLPLGLDEIEQEI  1031
consensus                                    !   !!!*!!!!! !*!!! !!!!!!!!!!!!!!!*  **   !* **  !*!!!!!!!!!! !**    *    !!! !!

logo

NTDB id 225538 B7P25 RS05950 WP 087931412.1  LKKFKMKGLVLGDADVVRLMDNKLSTGSSDIISAGLKKDGSFSARSSIASEQEFNVLQKYVHHTFENIGKDITEGVIDIA  1119
NTDB id 120 BSU 10620 NP 388943.2            FKKFKMKGLLLGDQEVVRLMDTTLQEGRSNIINAGLKKDGSLRSDSAAVGEKEFDLLTKHVRRTFQEAGEQITDGRVSIE  1111
consensus                                     !!!!!!!!!*!!! *!!!!!!  !  ! ! !! !!!!!!!!   !   ! !! *! !*!**!!   !  !!*! * !
```

```
logo

NTDB id 225538 B7P25 RS05950 WP 087931412.1  PYKKGNKAACTFCNFKSVCQFDESLEDNQFRTLKDMKDSEAMEKIREEVGGE...  1171
NTDB id 120 BSU 10620 NP 388943.2            PYKMKNKTPCTYCAFKSVCQFDESLEENEYRPLKAEKDKTILEWIKKEADGNEHS  1166
consensus                                    !!!  !! *!!*! !!!!!!!!!!!!*! *!*!!  !!   *! !* !  ! ***
```

X non conserved

X similar

X $\geq$ 50% conserved