```
logo

NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1   MQIPKPNNSTWTDDQWEAIVSEGQDILVAAAAGSGKTAVLVERLIRKMTRPELPVDVDRLLVVTFTNASAAEMKHRITEA    80
NTDB id 119 BSU 10630 NP 388944.2               MNIPKPADSTWTDDQWNAIVSTGQDILVAAAAGSGKTAVLVERMIRKITAEENPIDVDRLLVVTFTNASAAEMKHRIAEA    80
consensus                                       !*!!!!  !!!!!!!! !!!! !!!!!!!!!!!!!!!!!!!!*!!!*! *! !*!!!!!!!!!!!!!!!!!!!!!! !!

logo

NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1   LEKELAKNPGSLHMRRQLSLMNRANISTLHSFCLQVLRTFYYEIDLDPGFRLADQTEGELLGDEVLDELFEDEYKAGKPS   160
NTDB id 119 BSU 10630 NP 388944.2               LEKELVQRPGSLHIRRQLSLLNRASISTLHSFCLQVLKKYYYLIDLDPGFRIADQTEGELIGDEVLDELFEDEYAKGEKA   160
consensus                                       !!!!!   !!!!!*!!!!!!*!!! !!!!!!!!!!!!* *!! !!!!!!!!*!!!!!!!!*!!!!!!!!!!!!!  ! *

logo

NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1   FFELVDRYTSDRHDLDLQWLVKRIYEFSRSHPSPEQWMRAFLSLYDVDAQTKVEELPFYPYIKEDLSLVLRSCQELLERA   240
NTDB id 119 BSU 10630 NP 388944.2               FFELVDRYTTDRHDLDLQFLVKQVYEYSRSHPNPEAWLESFVHLYDVSEKSAIEELPFYQYVKEDIAMVLNGAKEKLLRA   240
consensus                                       !!!!!!!!!*!!!!!!!!*!!! *!!*!!!!! !! !*  !**!!!!   * *!!!!!!*!*!!!* *!!  * ! ! !!

logo

NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1   LSLSKEPGGPAPRAENFIDDLEQVNELIRHQDDFEKLYELLPNVNFKRLKTCKGDEYDPALLEKATDARNQAKKQLEKLK   320
NTDB id 119 BSU 10630 NP 388944.2               LELTKAPGGPAPRADNFLDDLAQIDELIQHQDDFSELYKRVPAVSFKRAKAVKGDEFDPALLDEATDLRNGAKKLLEKLK   320
consensus                                       ! !*! !!!!!!!!*!!*!!! !* !!! !!!!!  !!  *! ! !!! ! *!!!!*!!!!!* !!! !! !!! !!!!!

logo

NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1   DEYFMRSPAQHLKSLAEMKPVVETLVELVIQFGERFERAKQEKSIVDFSDLEHYCLRILAEQDAEGHLIETEAAKYYQQQ   400
NTDB id 119 BSU 10630 NP 388944.2               TDYFTRSPEQHLKSLAEMKPVIETLVQLVISYGKRFEAAKQEKSIIDFSDLEHYCLAILTAENDKGEREPSEAARFYQEQ   400
consensus                                        *!! !!! !!!!!!!!!!!!*!!!! !!! *! !!! !!!!!!!*!!!!!!!!!! !!      !*  **!!!**!! !

logo

NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1   FEEVLVDEYQDTNLVQETILKLVSKGEHSAEGNLFMVGDVKQSIYRFRLAEPMLFLNKYKHFQPDGKETGKRIDLNKNFR   480
NTDB id 119 BSU 10630 NP 388944.2               FHEVLVDEYQDTNLVQESILQLVTSGPE.ETGNLFMVGDVKQSIYRFRLAEPLLFLSKYKRFTESGEGTGRKIDLNKNFR   479
consensus                                       !*!!!!!!!!!!!!!!!!*!! !!* !***  !!!!!!!!!!!!!!!!!!!!!!*!!! !!!*! * !  !!**!!!!!!!!

logo

NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1   SRSDVLDSTNFLFKQLMGETVGEIEYDEQAELKLGASYPESKDTTTEMLLVHLDQQEAETGEEREELETVQFEARIISKK   560
NTDB id 119 BSU 10630 NP 388944.2               SRADILDSTNFLFKQLMGGKIGEVDYDEQAELKLGAAYPDNDETETELLLIDNA.EDTDASEEAEELETVQFEAKAIAKE   558
consensus                                       !! !*!!!!!!!!!!!!!!  *!!**!!!!!!!!!!! !!*  *! !!*!!**  * * *  !! !!!!!!!!!!* ! !
```

```
logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  IKELVEQPFQVYDAKQQMTRNLQYRDIVILLRSMPWAPQMMEELKKQGIPVYANLSSGYFEATEVSVILSLLKVIDNPYQ   640
NTDB id 119 BSU 10630 NP 388944.2              IRKLISSPFKVYDGKKKTHRNIQYRDIVILLRSMPWAPQIMEELRAQGIPVYANLTSGYFEAVEVAVALSVLKVIDNPYQ   638
consensus                                      !* !*  !! !!!*!   *!!*!!!!!!!!!!!!!!!!*!!!!* !!!!!!!!!*!!!!!! !! ! !!*!!!!!!!!!

logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  DIPLAAVLRSPLVHLDENELALIRTSDKKGTYYDAVKAFMSVTHSDHPTCKKLERFFQFLRKWRDFSINHSVAELIWEVY   720
NTDB id 119 BSU 10630 NP 388944.2              DIPLASVLRSPIVGADENELSLIRLENKKAPYYEAMKDYLAAGDRSDELYQKLNTFYGHLQKWRAFSKNHSVSELIWEVY   718
consensus                                      !!!!! !!!!!*!* !!!!! !!!   !!**!!*!*! **   *  ** * !!  !* *! !!! !! !!!! !!!!!!!

logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  RDTQYLDYVGGMPGGKQRQANLRALYDRAKQYEKAAFRGLFRFLRFIERMQERGDDLGAAKTFSETEDVVRMMTIHSSKG   800
NTDB id 119 BSU 10630 NP 388944.2              RDTKYMDYVGGMPGGKQRQANLRVLYDRARQYESTAFRGLFRFLRFIERMQERGDDLGTARALSEQEDVVRLMTIHSSKG   798
consensus                                      !!! !*!!!!!!!!!!!!!!!!!! !!!!!*!!!  !!!!!!!!!!!!!!!!!!!!!!!! !*  !! !!!!!*!!!!!!!!

logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  LEFPVVFTAGLGRNFNMMDLNQSYLLDKELGFGSKYIHPELRISYATLPLVAMKKKMRKELLSEELRVLYVALTRAKEKL   880
NTDB id 119 BSU 10630 NP 388944.2              LEFPVVFVAGLGRNFNMMDLNKSYLLDKELGFGTKYIHPQLRISYPTLPLIAMKKKMRRELLSEELRVLYVALTRAKEKL   878
consensus                                      !!!!!!! !!!!!!!!!!!!!! !!!!!!!!!!!*!!!!! !!!!!*!!!!*!!!!!!!*!!!!!!!!!!!!!!!!!!!!!

logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  FLVGSVKNQVKALSKWQNAATGEEWLLPDFERYQSKTYLDFIGPALIRHQAMASVLEEAG.DVVLSHPSTFTISFTQASD   959
NTDB id 119 BSU 10630 NP 388944.2              FLIGSCKDHQKQLAKWQASASQTDWLLPEFDRYQARTYLDFIGPALARHRDLGDLAGVPAHADISGHPARFAVQMIHSYD   958
consensus                                      !!*!!*! * ! ! !!!  !*  *!!!!*!*!!! *!!!!!!!!!! !!  ** *   ***  *  !!  ! *   *  !

logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  LLKEDMSLEKKEQDEIVQALMDGLPVEGYGDADEKVAERLSWKYPYLAASQVGTKQSVSEIKRMKEIQDEYSVPSSIRKA  1039
NTDB id 119 BSU 10630 NP 388944.2              LLDDDLEEERMEEKSERLEAIRRGEPVPGSFAFDEKAREQLSWTYPHQEVTQIRTKQSVSEIKRKREYEDEYSGRAPVKPA  1038
consensus                                      !! *!*     !  ! * !*  ! !!*!   !!!  ! !!! !!*   *!* !!!!!!!!!! *!  !!!! * ****!

logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  .RATLYDRPAFMKKKTLTAAEQGTAMHTVMQHIPLPSEEPYDESQIGHLLESLQQRDLLTDEQIRSINQEGIASFFSTSI  1118
NTDB id 119 BSU 10630 NP 388944.2              DGSILYRRPAFMMKKGLTAAEKGTAMHTVMQHIPLSHVPSIEEAE..QTVHRLYEKELLTEEQKDAIDIEEIVQFFHTEI  1116
consensus                                      *   !! !!!!! !! !!!!! !!!!!!!!!!!!!** ** *!  *** ** !  **!!!*!!   !  ! !  !!*! !
```

```
logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  GQKLLKADWVKREVSFSMVLPVKEVYRHIDTEGEPVLIQGMIDCLFETDGKLYLLDYKTDRVQGRYTV..DAAESILKKR  1196
NTDB id 119 BSU 10630 NP 388944.2              GGQLIGAKWKDREIPFSLALPAKEIYPDAHEADEPLLVQGIIDCLYETEDGLYLLDYKSDRIEGKFQHGFEGAAPILKKR  1196
consensus                                      !  !* ! !  !!**!!* !! !!*!** *   !!*!*!!*!!!!*!!*  !!!!!!!*!!* !** *****! *!!!!!

logo
NTDB id 1165894 AB3Y92 RS05545 WP 342498135.1  YETQIALYAKAVERLTNRTLEEKILYFFDGNLEISL  1232
NTDB id 119 BSU 10630 NP 388944.2              YETQIQLYTKAVEQIAKTKVKGCALYFFDGGHILTL  1232
consensus                                      !!!!! !! !!!! *    *  * !!!!!! * **!
```

X non conserved

X similar

X $\geq$ 50% conserved