```
logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  MQIPKPNNSTWTDDQWEAIVSEGQDILVAAAAGSGKTAVLVERLIRKMTRPEHPVDVDRLLVVTFTNASAAEMKHRITEA   80
NTDB id 119 BSU 10630 NP 388944.2            MNIPKPADSTWTDDQWNAIVSTGQDILVAAAAGSGKTAVLVERMIRKITAEENPIDVDRLLVVTFTNASAAEMKHRIAEA   80
consensus                                    !*!!!!  !!!!!!!! !!!! !!!!!!!!!!!!!!!!!!!!*!!!*! *!*!*!!!!!!!!!!!!!!!!!!!!!!! !!

logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  LEKELAKNPGSLHMRRQLSLMNRANISTLHSFCLQVLRTFYYEIDLDPGFRLADQTEGELLGDEVLDELFEDEYKAGKPS  160
NTDB id 119 BSU 10630 NP 388944.2            LEKELVQRPGSLHIRRQLSLLNRASISTLHSFCLQVLKKYYYLIDLDPGFRIADQTEGELIGDEVLDELFEDEYAKGEKA  160
consensus                                    !!!!!   !!!!!*!!!!!!*!!! !!!!!!!!!!!!* *!! !!!!!!!!*!!!!!!!!*!!!!!!!!!!!!!  ! *

logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  FFELVDRYTSDRHDLDLQWLVKRIYEFSRSHPSPEQWMRAFLSLYDVDAQTKVEELPFYPYIKEDLSLVLRSCQELLERA  240
NTDB id 119 BSU 10630 NP 388944.2            FFELVDRYTTDRHDLDLQFLVKQVYEYSRSHPNPEAWLESFVHLYDVSEKSAIEELPFYQYVKEDIAMVLNGAKEKLLRA  240
consensus                                    !!!!!!!!!*!!!!!!!!*!!! *!!*!!!!! !! !*  !**!!!!   * *!!!!!!*!*!!!* *!!  * ! ! !!

logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  LSLSKEPGGPAPRAENFIDDLEQVNELIRHQDDFSKLYKRVPNVSFKRLKTVKGDEYDPALLEKSTDARNQAKKQLEKLK  320
NTDB id 119 BSU 10630 NP 388944.2            LELTKAPGGPAPRADNFLDDLAQIDELIQHQDDFSELYKRVPAVSFKRAKAVKGDEFDPALLDEATDLRNGAKKLLEKLK  320
consensus                                    ! !*! !!!!!!!!*!!*!!! !* !!! !!!!!  !!  *! ! !!! ! *!!!!*!!!!!*  !! !! !!! !!!!!

logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  DEYFMRSPAQHLKSLAEMKPVVETLVELVIQFGERFERAKQEKSIVDFSDLEHYCLRILAEQDAEGHLIETEAAKYYQQQ  400
NTDB id 119 BSU 10630 NP 388944.2            TDYFTRSPEQHLKSLAEMKPVIETLVQLVISYGKRFEAAKQEKSIIDFSDLEHYCLAILTAENDKGEREPSEAARFYQEQ  400
consensus                                     *!! !!! !!!!!!!!!!!!*!!!! !!! *! !!! !!!!!!!*!!!!!!!!!! !!       !*  **!!!**!! !

logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  FEEVLVDEYQDTNLVQETILKLVSKGKHSAEGNLFMVGDVKQSIYRFRLAEPMLFLNKYKHFQPDGKETGKRIDLNKNFR  480
NTDB id 119 BSU 10630 NP 388944.2            FHEVLVDEYQDTNLVQESILQLVTSGPE.ETGNLFMVGDVKQSIYRFRLAEPLLFLSKYKRFTESGEGTGRKIDLNKNFR  479
consensus                                    !*!!!!!!!!!!!!!!!!*!! !!* !***  !!!!!!!!!!!!!!!!!!!!!!*!!! !!!*! * !  !!**!!!!!!!!

logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  SRSDVLDSTNFLFKQLMGETVGEIEYDEQAELKLGASYPESKDTTTEMLLVHLDQQEAETGEEREELETVQFEARIIAKK  560
NTDB id 119 BSU 10630 NP 388944.2            SRADILDSTNFLFKQLMGGKIGEVDYDEQAELKLGAAYPDNDETETELLLIDNA.EDTDASEEAEELETVQFEAKAIAKE  558
consensus                                    !! !*!!!!!!!!!!!!!  *!!**!!!!!!!!!!! !!*  *! !!*!!**  * * *  !! !!!!!!!!!* !!!
```

```
logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  IKELVEQPFQVYDAKQQMTRNLQYRDIVILLRSMPWAPQMMEELKKQGIPVYANLSSGYFEATEVSVILSLLKVIDNPYQ   640
NTDB id 119 BSU 10630 NP 388944.2            IRKLISSPFKVYDGKKKTHRNIQYRDIVILLRSMPWAPQIMEELRAQGIPVYANLTSGYFEAVEVAVALSVLKVIDNPYQ   638
consensus                                    !* !*  !! !!!*!   *!!*!!!!!!!!!!!!!!!!*!!!!* !!!!!!!!!*!!!!!! !! ! !!*!!!!!!!!!

logo

NTDB id 401426 GKC27 RS05235 WP 003212309.1  DIPLAAVLRSPIVHLDENELALIRTSDKKGTYYDAVKAFMSVTHSDHPTCKKLERFFQLLRKWRDFSINHSVAELIWEVY   720
NTDB id 119 BSU 10630 NP 388944.2            DIPLASVLRSPIVGADENELSLIRLENKKAPYYEAMKDYLAAGDRSDELYQKLNTFYGHLQKWRAFSKNHSVSELIWEVY   718
consensus                                    !!!!! !!!!!!!* !!!!! !!!   !!**!!*!*! **   *  ** * !!  !* *! !!! !! !!!! !!!!!!!

logo

NTDB id 401426 GKC27 RS05235 WP 003212309.1  RDTQYLDYVGGMPGGKQRQANLRALYDRAKQYEKAAFRGLFRFLRFIERMQERGDDLGAAKTFSETEDVVRMMTIHSSKG   800
NTDB id 119 BSU 10630 NP 388944.2            RDTKYMDYVGGMPGGKQRQANLRVLYDRARQYESTAFRGLFRFLRFIERMQERGDDLGTARALSEQEDVVRLMTIHSSKG   798
consensus                                    !!! !*!!!!!!!!!!!!!!!!!! !!!!!*!!!  !!!!!!!!!!!!!!!!!!!!!!!! !*  !! !!!!!*!!!!!!!!

logo

NTDB id 401426 GKC27 RS05235 WP 003212309.1  LEFPVVFTAGLGRNFNMMDLNQSYLLDKELGFGSKYIHPELRISYATLPLVAMKKKMRTELLSEELRVLYVALTRAKEKL   880
NTDB id 119 BSU 10630 NP 388944.2            LEFPVVFVAGLGRNFNMMDLNKSYLLDKELGFGTKYIHPQLRISYPTLPLIAMKKKMRRELLSEELRVLYVALTRAKEKL   878
consensus                                    !!!!!!! !!!!!!!!!!!!!! !!!!!!!!!!!*!!!!! !!!!!*!!!!*!!!!!!! !!!!!!!!!!!!!!!!!!!!!

logo

NTDB id 401426 GKC27 RS05235 WP 003212309.1  FLVGSVKNQVKALSKWQNAATGEEWLLPDFERYQSKTYLDFIGPALIRHQAMSSVLEETG.DIVLSHPSTFTISFTQASD   959
NTDB id 119 BSU 10630 NP 388944.2            FLIGSCKDHQKQLAKWQASASQTDWLLPEFDRYQARTYLDFIGPALARHRDLGDLAGVPAHADISGHPARFAVQMIHSYD   958
consensus                                    !!*!!*! * ! ! !!!  !*  *!!!!*!*!!! *!!!!!!!!!! !!  *  *   ***  *  !!  ! *   *  !

logo

NTDB id 401426 GKC27 RS05235 WP 003212309.1  LLKEDMSLEKKEQDEIVQALIDGLPVEGYGDADEKVAERLSWKYPYLAASQVGTKQSVSEIKRMKEIQDEYSVPSSIRKA   1039
NTDB id 119 BSU 10630 NP 388944.2            LLDDDLEEERMEEKSERLEAIRRGEPVPGSFAFDEKAREQLSWTYPHQEVTQIRTKQSVSEIKRKREYEDEYSGRAPVKPA   1038
consensus                                    !! *!*     !  ! * !*  ! !!*!    !!!  ! !!! !!*   *!* !!!!!!!!!! *!  !!!! * ****!

logo

NTDB id 401426 GKC27 RS05235 WP 003212309.1  .RATLYDRPAFMKKKTLTAAEQGTAMHTVMQHIPLPSEEPYDESRIGHLLESLQQRDLLTDEQIQSINQEGIAAFFSTSI   1118
NTDB id 119 BSU 10630 NP 388944.2            DGSILYRRPAFMMKKGLTAAEKGTAMHTVMQHIPLSHVPSIEEAE..QTVHRLYEKELLTEEQKDAIDIEEIVQFFHTEI   1116
consensus                                    *   !! !!!!! !! !!!!! !!!!!!!!!!!!!** ** *!  *** ** !  **!!*!!   !  ! !  !!*! !
```

```
logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  GQKLLKADWVKREVSFSLVLPVKEVYSHIDTEGEPVLIQGMIDCLFETDGKLYLLDYKTDRVQGRYT..VDAAEPILKKR  1196
NTDB id 119 BSU 10630 NP 388944.2            GGQLIGAKWKDREIPFSLALPAKEIYPDAHEADEPLLVQGIIDCLYETEDGLYLLDYKSDRIEGKFQHGFEGAAPILKKR  1196
consensus                                    !  !* ! !  !!**!!! !! !!*!** *   !!*!*!!*!!!!*!!*  !!!!!!!*!!* !** ** **! !!!!!!
```

```
logo
NTDB id 401426 GKC27 RS05235 WP 003212309.1  YETQIALYAKAVERLTNRTLEEKILYFFDGNLEISL  1232
NTDB id 119 BSU 10630 NP 388944.2            YETQIQLYTKAVEQIAKTKVKGCALYFFDGGHILTL  1232
consensus                                    !!!!! !! !!!! *    *  * !!!!!! * **!
```

X non conserved

X similar

X $\geq$ 50% conserved