```
logo
NTDB id 194044 BFM96 RS05850 WP 068991554.1  MVKQRNEIEEKYTWDLTTVFPSDESWEAELASLSTDVAKAKAFEGHLLDSANSLLETTDTYMSLSRRLEKLYVYASMKND   80
NTDB id 480 HSISS4 RS02090 WP 002890133.1    MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKND   80
consensus                                    !  *! **!!!!!!!!!!*!**!  !! !  !   !* !! !* !!!!!!!  !!  !* !!!! !!!!!*!!!!!!!!!

logo
NTDB id 194044 BFM96 RS05850 WP 068991554.1  QDTREASYQEYQAKASSLYSDFGQTFAFFEPEFMKITEEMYQNFLQEAEGLALYRHYFDRLLKAKEHVLSQREEELLAGA  160
NTDB id 480 HSISS4 RS02090 WP 002890133.1    QDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAA  160
consensus                                    !!!  * !!!!!!!!!! !!!     !!*!!!!!! * *     !    *!!*!! !!!*!!!  !*!!!!!  !!!!!*!

logo
NTDB id 194044 BFM96 RS05850 WP 068991554.1  SEIFGAASETFAILDNADLVFPVVRDEDGDEVQLSHGNYITLVESKDRQVRKGAYEAMYSVYEQYQHTYAKTLQTNVKVQ  240
NTDB id 480 HSISS4 RS02090 WP 002890133.1    GDIFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVH  240
consensus                                     *!! ****!! *!!!!!**!! ! !  !! ! !*!!!*!!!*!!!!! *!!!!!!!!!  !!!*!!!!! !!!  !!!*

logo
NTDB id 194044 BFM96 RS05850 WP 068991554.1  NYRAKVRHYKSAREAALSQNFIPETVYDSLVSAVHKHLPLLHRYMALRAKILGLSDLKMYDVYTPLSEVDYKFSYEEALK  320
NTDB id 480 HSISS4 RS02090 WP 002890133.1    NYQAKVRHYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETETALTYEESLK  320
consensus                                    !! !!!!!! !!!*!!!  !!!!!*!!!!!*  !*!!!!!!!!!* !! !*!!! *!!!!!!!!!!!! *   *!!! !!

logo
NTDB id 194044 BFM96 RS05850 WP 068991554.1  KSEEVLAIFGEDYLAKVQQAFSERWIDVHENQGKRSGAYSGGSYDTNAFMLLNWQDTLDNLYTLVHETGHSMHSSYTRET  400
NTDB id 480 HSISS4 RS02090 WP 002890133.1    KAEEVLAIFGEEYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQT  400
consensus                                    ! !!!!!!!!!*!    !* !!*!!!!!!!*! !!!!!!!!!! !!!!!!!!!!!!!!!!!!*!!!!!!!!!*!!**!! !

logo
NTDB id 194044 BFM96 RS05850 WP 068991554.1  QPYVYGDYSIFLAEIASTTNENILTEKLLEEVTDDRTRFAILNHFLDGFKGTVYRQTQFAEFEHAIHQADQAGEVLTSEY  480
NTDB id 480 HSISS4 RS02090 WP 002890133.1    QPYVYGDYPIFLAEIASTTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADF  480
consensus                                    !!!!!!!!*!!!!!!!!!!!!!!!!! !! !! !!*!!!!!!!!*!!!!!!!!*!!!!!!!!!!!!! !!   ! *!! **

logo
NTDB id 194044 BFM96 RS05850 WP 068991554.1  LNTLYADLNETYYGLKKEDNPEIQYEWARIPHFYYNYYVFQYATGFSAASALAEKIVHGNPEDKENYLNYLKAGNSDYPL  560
NTDB id 480 HSISS4 RS02090 WP 002890133.1    MNKLYADLNEKYYNLKAEDNYEIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPL  560
consensus                                    *! !!!!!!! !! !! !!!*!!!*!! !!!!!! !!!!*!!!!!! !!! !!!!!!!! *!!!! !! !!!!! !!!!!
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logo
                                                  EVIKKAGVDMEQEDYLHAAFAVFERRLNEFEALVEKLGLI.   600
NTDB id 194044 BFM96 RS05850 WP 068991554.1       EVIKKAGVDMEQEDYLHAAFAVFERRLNEFEALVEKLGLI.   600
NTDB id 480 HSISS4 RS02090 WP 002890133.1         EVIKKAGVDMTNTDYLDAAFKVFEDRLVELEALVEKGVHLS   601
consensus                                         !!!!!!!!!!! * !!!*!!! !!! !! ! !!!!!!   ***
```

X non conserved

X similar

X $\geq$ 50% conserved