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logo

NTDB id 36143 BPOF4 RS13450 WP 012959723.1  MAKQRLKRTEVPEASKWDLEAIFATDKEWEEEFSAVKSLYPQMTAYKGKLGESADSLYEALQKQDEISERLNRLYTYAHMRNDED   85
NTDB id 480 HSISS4 RS02090 WP 002890133.1   ...MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASMKNDQD   82
consensus                                   ***     !!***!   !!!  !!!!! *!! !*       *  *!! !*! *!!  !  !       *  !! **! !!*!*!! !

logo

NTDB id 36143 BPOF4 RS13450 WP 012959723.1  TTNSLYQGLHDRAMSLSAQVAQSVAYLTPELLELDEKITKQFINEHEGLNRYEHMLEELYKEKPHVLSEAEEAILAQASEALQSP   170
NTDB id 480 HSISS4 RS02090 WP 002890133.1   TTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAAGDIFNGP   167
consensus                                   !!  !!!  * *!  !  !*    !!  !! * !!*! *  !   **!!  !*!  ! !   !*!!!!   ! *!! ! *  * !

logo

NTDB id 36143 BPOF4 RS13450 WP 012959723.1  GQTFGMLNNADLTFPTTKDEDGEDVEITHGRFISLLESKDRKVRENAFKAVYNTYGQFKNTFAQTLSGQVKKDLFFANVRKYRSA   255
NTDB id 480 HSISS4 RS02090 WP 002890133.1   TDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVHNYQAKVRHYNSA   252
consensus                                     !! *! !!!* !! * !  !* !!*!!! !!*!*!!!!! *!  !* !*! !! !! *!*!!!! ! !! * * ! !!*! !!

logo

NTDB id 36143 BPOF4 RS13450 WP 012959723.1  REAALSQNHIPEVVYDQLVETINKNIHLLHRYVKLRKKVLGVEELHMYDLYTPLVEGSKVKVSYEEAKDLVIQGVEPLGEEYVNV   340
NTDB id 480 HSISS4 RS02090 WP 002890133.1   RHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSETET.ALTYEESLKKAEEVLAIFGEEYSKG   336
consensus                                   !*!!!  !*!!! !!! !*!**!** !!!!!* !!!!!!!**!!*!!!*!!!! !   * **!!!        * * !!!!

logo

NTDB id 36143 BPOF4 RS13450 WP 012959723.1  LKEGFTKRWVDVEETVGKRSGAYSSGAYGTMPYILMNWQDNIDNLFTLAHEFGHSMHSYYTRKHQPYVYGDYTIFVAEVASTLNE   425
NTDB id 480 HSISS4 RS02090 WP 002890133.1   VHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQTQPYVYGDYPIFLAEIASTTNE   421
consensus                                   ** *!! !!*!!**  !!!!!!!! !!! ! ***!*!!!! *!!!!!! !! !!!*!! *!! *!!!!!!!!*!!*!!*!!! !!

logo

NTDB id 36143 BPOF4 RS13450 WP 012959723.1  SLLNDYLVKTTTDKQQKLYLLNHFLEGFRGTVFRQTMFAEFEQKIHELSADGEALTPELLTTTYYELNKKYFGEEMVVDEEIGLE   510
NTDB id 480 HSISS4 RS02090 WP 002890133.1   NILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADFMNKLYADLNEKYYNLKAEDNYEIQFE   506
consensus                                    *! * !*!   !   *  *!!!*!*!!*!!!!!!! !!!!!* !!!  ! !  !!** *   ! *!! !!*        !!  !

logo

NTDB id 36143 BPOF4 RS13450 WP 012959723.1  WARIPHFYYNFYVYQYATGYSAAAALSKQILEEGEPAVDRYLSFLKAGSSNFPIEVLKEAGVDMTSKEPIEEALRLFEETLDEME   595
NTDB id 480 HSISS4 RS02090 WP 002890133.1   WERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDRLVELE   591
consensus                                   ! !!!!!! !*!!!!!!!!* !!  !   !**  !*  * !!**!!!!!! *!*!!*! !!!!!!  **** ! **!!* ! !*!
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logo                                          RLVKK
                                              ALLEAGVHLS

NTDB id 36143 BPOF4 RS13450 WP 012959723.1    RLLKA.....   600
NTDB id 480 HSISS4 RS02090 WP 002890133.1     ALVEKGVHLS   601
consensus                                      !*   *****
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X non conserved
X similar
X $\geq$50% conserved