```
logo
NTDB id 93138 MWM01 RS03955 WP 244404659.1  MEAKQTKKSLPSRSEIPVEETWRLEDIFPTDEAWEQEFQEVKKMIPKLAEYQGRLGESADVLYEALQYQDEVSMRLGKLYTYAHM   85
NTDB id 480 HSISS4 RS02090 WP 002890133.1  ........MSDNRTHLEEKYTWDLTTIFATDADWETEYESTVQDLKKASAYAGHLLDSAKNLLGATELYMSLMRRLEKIYVYASM   77
consensus                                  ********  * !****   !! !  !!*!! !! !*     **!   ! !*! *!! !  !      *  !! !*! !!*!

logo
NTDB id 93138 MWM01 RS03955 WP 244404659.1  RYDQDTTNAFYQGLNDRATSLYSEASSAMAFIVPEILSIDEAKLRSFLEEKQELKLYEHALDEINRQRPHVLSAEEEALLAQAAE   170
NTDB id 480 HSISS4 RS02090 WP 002890133.1  KNDQDTTVGLYQEYQAKASNLYSQLSEAFAYFEPEFMALDDKKLAEFKEQEPGLGLYDHYFERLLANKDHVLSQEAEELLAAAGD   162
consensus                                  * !!!!! * !!  * *!* !!!  ! ! !*  !! * *!* !!  ! !  * ! !!*!  * *  ***!!!! ! ! !!! !**

logo
NTDB id 93138 MWM01 RS03955 WP 244404659.1  VMQSSSSTFSMLNNADLTFPTIIDENGEEVEVTHGRFIRFLESTDRRVRRDAFKAVYDTYEKYKNTFASTLSGAVKKDNFFARVR   255
NTDB id 480 HSISS4 RS02090 WP 002890133.1  IFNGPTDTFNVLDNADILFPWVSDGQGDVVELTHGNFITLMESKDRDIRKGAYEAMYGTYEQFQHTYAQTLQGVVKVHNYQAKVR   247
consensus                                  * * ** !! *! !!!* !! * ! *!* !!*!!! !!  *!! !! *!* !* !*! !!! * *!*! !! ! !! *!* !*!!

logo
NTDB id 93138 MWM01 RS03955 WP 244404659.1  RYKSAREAALSSNNIPESVYDNLIETVHEHLPLLHRYIRLRKKVLGLDELHMYDLYTPLVQDVKMEVTYEEAKEYMLKGLAPLGE   340
NTDB id 480 HSISS4 RS02090 WP 002890133.1  HYNSARHAALAANFIPESVYDSLLESVNKHLPLLHRYLDLRKKVLGLDELKMYDVYTPLSET.ETALTYEESLKKAEEVLAIFGE   331
consensus                                  *! !!!*!!!  ! !!!!!!! !*!*!* !!!!!!!!* !!!!!!!!!!!*!!!*!!!!   *   *!!!!        !!* !!

logo
NTDB id 93138 MWM01 RS03955 WP 244404659.1  EYISIVKEGLENRWVDVRENKGKRSGAYSSGAYGTHPYILLNWQDNVNNLFTLVHEFGHSVHSYYTRKTQPYPYGDYSIFVAEVA   425
NTDB id 480 HSISS4 RS02090 WP 002890133.1  EYSKGVHAAFTERWIDVHPNKGKRSGAYSGGAYDTNAFMLLNWQDTLDNLFTLVHETGHSLHSTFTRQTQPYVYGDYPIFLAEIA   416
consensus                                  !!   !* *   !!*!!**!!!!!!!!!! !!! !****!!!!!! * !!!!!!!! !!!*!! *!! !!!!*!!!!*!!*!!*!

logo
NTDB id 93138 MWM01 RS03955 WP 244404659.1  STCNEALLSDYLLKTIDNEKKRLYLLNHYLEGFRGTVFRQTMFAEFEHMIHMKAQEGEALTADSLTSLYYELNKKYFGDDIVVDQ   510
NTDB id 480 HSISS4 RS02090 WP 002890133.1  STTNENILTETLLKEVKDDKTRFAILNHYLDGFKGTVFRQTQFAEFEHAIHEADASGQILTADFMNKLYADLNEKYYNLKAEDNY   501
consensus                                  !!*!! *!** !!! *  *! !  *!!!!!*!!*!!!!!!! !!!!!! !!     !  !!!! *  !! *!! !!*

logo
NTDB id 93138 MWM01 RS03955 WP 244404659.1  EIGLEWARIPHFYYNYYVYQYATGFSAATALSKQILEEGEPAVKRYIEFLKAGSSDYPIEVLKKAGVDMTSTEPIRQACQVFAEK   595
NTDB id 480 HSISS4 RS02090 WP 002890133.1  EIQFEWERIPHFYMNYYVYQYATGFAAASYLAEKIVHGTEEDKEAYLTYLKAGSSDYPLEVIKKAGVDMTNTDYLDAAFKVFEDR   586
consensus                                  !!  !! !!!!!! !!!!!!!!!!!! !!* !   !**  !*    !* *!!!!!!!!!!*!!*!!!!!!!! !***  !* !! **
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logo                                          LVEMEKLVS
                                              LELLALLEKGVHLS

NTDB id 93138 MWM01 RS03955 WP 244404659.1    LEEMEKLLS......   604
NTDB id 480 HSISS4 RS02090 WP 002890133.1     LVELEALVEKGVHLS   601
consensus                                     !  !*!  !*  ******
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X non conserved
X similar
X $\geq$50% conserved