```
logo
NTDB id 237842 BG910 RS03980 WP 089035726.1  MFYLYQSDRLEYLAALFCRIRREQPLAGALRAEEIVVQSQGMRRYLGAFLARETGVAANLKFSLPAGLTWRLMREFIAGI   80
NTDB id 1133 OK783 RS06970 WP 010951252.1    MFYLYQSNRLESLAALFARIQKVKPLKCALQPEQIVVQSQGMRRYLNTCLARDLGVAANLAFSLPAGLTWKLMKKLIPGI   80
consensus                                    !!!!!!! !!! !!!!!*!! *  !! *!! *! !!!!!!!!!!!!  *!!!* !!!!!! !!!!!!!!!*!!*  !*!!

logo
NTDB id 237842 BG910 RS03980 WP 089035726.1  PALSPFAPEVMRWRLLDLFRSSRFQTASEFAGARSALQGYLNSGGAADYRLAGQLADYFDQYLVYRPQWIDAWQAGKTLD  160
NTDB id 1133 OK783 RS06970 WP 010951252.1    PELSPFAPEVMRWRLLDLFRSAEFQNGAEFEDVRNVLQDYLGSGESADYQLAGQLADIFDQYLVYRPQWIDAWQQGRILG  160
consensus                                    ! !!!!!!!!!!!!!!!!!!!  !! * !!   !  !! !! !!  !!! !!!!!!!*!!!!!!!!!!!!!!!!! !* !

logo
NTDB id 237842 BG910 RS03980 WP 089035726.1  LGDAEGWQAQLWHYLDDGRQSAPHRVALWETLLSRLSADKLPERFFVFGISTMAPMYLQLLQKLSEHCDVIMLALNPSSR  240
NTDB id 1133 OK783 RS06970 WP 010951252.1    LGDDEIWQSKLWRYLDDGRQSAPHRVALWEKLLAALDKDKLPERYFVFGISTMAPMYLQLLHKLSEHCDVFVFALNPSGM  240
consensus                                    !!! ! !!  !!*!!!!!!!!!!!!!!!!!! !!  !  !!!!!!*!!!!!!!!!!!!!!!!!*!!!!!!!! * !!!!!

logo
NTDB id 237842 BG910 RS03980 WP 089035726.1  YWGDVIEPAQILKGADDADLNLSGHPFLASLGKQGRDFFDFLNEIELEESRVFDEDSQPDTLLHRLQHDIRTLAMPSENV  320
NTDB id 1133 OK783 RS06970 WP 010951252.1    HWGNVIEAAQILKGGGDPDLTQAGHPLLASLGKQGRDFFDFLNEMEIEEETPVFEEGGRDTLLHALQTDIQNLKMPSENV  320
consensus                                    *!! !!!*!!!!!!* !*!!   !!! !!!!!!!!!!!!!!!!!*!*!!  *  !*  *!!!!! !!*!!  ! !!!!!!

logo
NTDB id 237842 BG910 RS03980 WP 089035726.1  PTNAEKMLGDGSVRVVSAHSPLRELQILKDRILHILAEHPTWQPHDIAVLTPNIEPYSPFIEAVFGQAQAGAQALPYSVS  400
NTDB id 1133 OK783 RS06970 WP 010951252.1    GSVG...TDDGSICIVSAHSPLRELQILKDKLLKILHEHPDWQPHDIAVLTPNIEPYTPFIEAVFGQAQPGAQALPYSVS  397
consensus                                    ** ****  !!!***!!!!!!!!!!!!!!!**!*!!*!!! !!!!!!!!!!!!!!!!!*!!!!!!!!!!!*!!!!!!!!!!

logo
NTDB id 237842 BG910 RS03980 WP 089035726.1  DVRLSRRQPLFYALEQVLDLLESRFEVDKVLMLLESPPVLARFGLTADDLPLLHDTVAALKVHWGLDKTMRGGSDGLFTW  480
NTDB id 1133 OK783 RS06970 WP 010951252.1    DVKISRRQPFFYALECVSDLLESRFEVGKVLALLETAPVLRRFGLTGDDLPLLHDMVADLNVHWGLDGEMRGGTDQLFTW  477
consensus                                    !!**!!!!! !!!!!*! !!!!!!!!! !!! !!!**!!! !!!!!*!!!!!!!! !! ! !!!!!!  !!!!*! !!!!

logo
NTDB id 237842 BG910 RS03980 WP 089035726.1  QQALERLVLGWMLPEGQNPLWHGISAWHGDVNRLDTFARFAAFVRTLADTARLWAQNADTAGWTARARGLVEALFAPDDA  560
NTDB id 1133 OK783 RS06970 WP 010951252.1    KQAADRMILGWMLPEGGNPMWQDVSAWYADVNQTAMFGRFAAFLETLSDIARIWRQPATVGEWVARCRDLLETLFQAGPD  557
consensus                                     !! *!**!!!!!!!! !!*!* *!!!**!!!    !*!!!!!* !! ! !!*! !*!  * ! !!*! !*! !! * *
```

```
logo
NTDB id 237842 BG910 RS03980 WP 089035726.1  DQYALQQFEQALAQWNQEAALAGFTGELPPPTALRHLRRFLGSESDAGFLRGGITFCSMVPMRSLPFKVLCLLGLNDGNF   640
NTDB id 1133 OK783 RS06970 WP 010951252.1    DQKAVQNLENEWVKWQEESTLAGFFGQLPQQTVIRHIRRFLDSESEAGFLRGGITFCSMVPMRSLPFKVICLLGLNDGDF   637
consensus                                    !! !*!* !*    !* !  !!!! ! !!**! *!!*!!!! !!!*!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!! !

logo

NTDB id 237842 BG910 RS03980 WP 089035726.1  PRNTKAAEFDLIARHPQKGDRARRDDDRYLFLEALISAREILYLSYIGRDIRNDAELAPSALLGALIDTVAAMTGTRSRD   720
NTDB id 1133 OK783 RS06970 WP 010951252.1    PRNTKAAVFDLVAKHPAKGDRARRDDDRYLFLEALISAREILYLSYIGRDIRKDEELASSSLLGELIDTVAAMTGTNSRQ   717
consensus                                    !!!!!!! !!!*!*!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! ! !!!*! !!! !!!!!!!!!!! !!

logo

NTDB id 237842 BG910 RS03980 WP 089035726.1  LLETWIVQHPLQPFSRRYFIPSETRPHGQISDGLSSTRRDYAAALAQTPESPKAFFRQPLQENQPAAAVGQNELIAFWKN   800
NTDB id 1133 OK783 RS06970 WP 010951252.1    LAQNWIEQHPLQAFSRRYFQE......GGRSDGIFGTRTDYAAALGQTPEPPQPFFDQPVENAEPVAEIGQDEFIRFWRN   791
consensus                                    !   !! !!!!!*!!!!!! *******!  !!!*  !! !!!!!!*!!!!*! *!! !!*    ! ! *!! ! ! !!*!

logo

NTDB id 237842 BG910 RS03980 WP 089035726.1  PVKSWLHQTLGWREPYRDAVWESAEPFEPEAAGTAAAAYLDARRRKQNFDDVAVRLAAESLVPAGELGKLWQARFQADAK   880
NTDB id 1133 OK783 RS06970 WP 010951252.1    PVKVWLQ.QLAWSEPHIGEAWEPAEPFEPQHAEQIAETYIGARREGQDFSQTAARIAAESLLPSGELGKLWQQSFQTAAK   870
consensus                                    !!! !!** !*! !!*    !!*!!!!!! *!   !  !* !!!  ! !   ! !*!!!!!*! !!!!!!!!  !!  !!

logo

NTDB id 237842 BG910 RS03980 WP 089035726.1  HIDQTLLDGPKHPPHAYELTFVQDFGDQTLQGSLTDVYQRGQILFAEKTPNAPETLAVYLKHLIFCAVRPSESESAQTWL   960
NTDB id 1133 OK783 RS06970 WP 010951252.1    QIDTAVLNSPKLPPFPYAIP....SDGQILKGSLGNLYRCGQVFYAYGKPNAPQRVAFLLEHLIFCAVMPSEAETRQTFI   946
consensus                                    *!!  *!  !!*!!**! ******   ! ! !!!  *! *!!* *!   !!!!  *!  ! !!!!!!! !!! !* !!**

logo

NTDB id 237842 BG910 RS03980 WP 089035726.1  VLPDQTQHYPEIPQIAARAMLADWLAYYSRGQTRPLPFFAKTCLEAAKKYLKEKTDENKKAAALKAAADAYKGNKINKGQ   1040
NTDB id 1133 OK783 RS06970 WP 010951252.1    VQSGETEVLAEIAQDRALQLLSEWMAFFNIGQNRPLPFFAKTSLAAAEAFAQKQ....DWEAALKKAQTAYYGSKVSKGQ   1022
consensus                                    ! *  ! * *!!*!  !  *! *!*!**  !! !!!!!!!!!*! !!  *    ****   !!!! !  !! ! !* !!!

logo

NTDB id 237842 BG910 RS03980 WP 089035726.1  GSYTDTALIFGNDETAPYETDLFWELLEKLLLPLLAALQEKEEDGEAV   1088
NTDB id 1133 OK783 RS06970 WP 010951252.1    KDYTEVALVFGNASQNPLEQPLFENLA.RLLADTLAAAEKREGTGAA.   1068
consensus                                      !!* !!*!!!    ! ! *!!  ! **!! * !!!   *!  ! !*
```

X non conserved
X similar
X $\geq$ 50% conserved