```
NTDB id 316627 D2917 RS18080 WP 151071452.1  MRVVVLAFVAGCWVLQQQATLPRQDVVRMAAAGLA.LAGIAMLVWGRRLHPAWRGLVLAVLAFGAAICWAAWRADMRLRD  79
NTDB id 1426 RS RS05575 WP 011001070.1       MRALLIGFVAGCMALQTRPALAPVWQP..ALLGLACLLAMALLRRGARLP.RLVPVMAVLAAACAGFGWSDWRAQQRLSV  77
consensus                                    !! ****!!!!!  !!  * !**  ***!  !!!*! **!*!  ! !! *  *** * ! *!* *!  !!! !!
```

```
NTDB id 316627 D2917 RS18080 WP 151071452.1  WLPVSLESRDLDVRGVVSGLPSASAGGVRFALTVERAVPDGPDKPAPTLPGRLLL.............HWRDAPPDLYPG  146
NTDB id 1426 RS RS05575 WP 011001070.1       VLAPAWEGKDIRATGVVAELPEVTEDATRFLFRIESSDAGDAVPPRVRLSWYGLRSWHERQREAEAATDRRAGIPDLQPG  157
consensus                                     !**  ! *!*  !!! !!  *  * !!  *!  *  * *! * !*  ! ************** ! **!!! !!
```

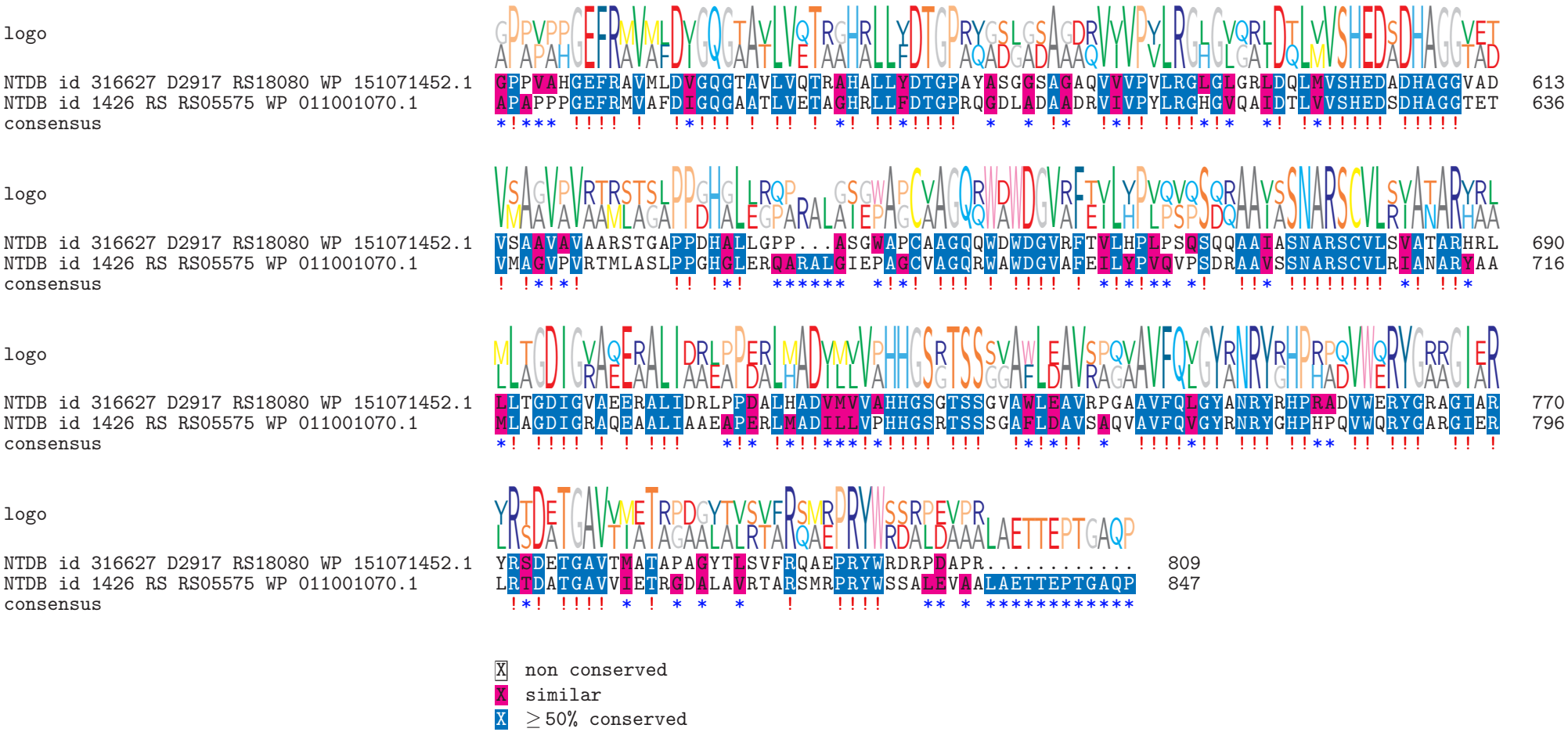
```
NTDB id 316627 D2917 RS18080 WP 151071452.1  QRYTLTIRLRRPRGLANPFGFDYAYWLLAQGYGATGYVRRAHGPPQ.....DATRERLAWRIEAWRAAVRDHLRAALPAD  221
NTDB id 1426 RS RS05575 WP 011001070.1       QRWQLTLRLKRPHSLMNPGGFDGEYAMLADDVRAAGYVYTGKRARNALMGEADAGSGVGLRVERWRAAVRRHLLAALP.E  236
consensus                                    !!* !!*!!*!!* ! !! !!!  ! *!!  ! !!!  ** ******** **  !*! !!!!!! !! !!!!**
```

```
NTDB id 316627 D2917 RS18080 WP 151071452.1  ARYGPVLIALVIGDQRGIDTEDWQLFRRTGISHLVSISGLHITMIAGMAGSFAGLLWRHSFGLGRRLRRPLPLWLPARHA  301
NTDB id 1426 RS RS05575 WP 011001070.1       ARYAPVIVALVVGDQSGIAQADWERFRRTGISHLVSISGLHITMIAGLFGALWMALWRRSFGLARWLRTPLPLRMPAQRA  316
consensus                                    !!!*!!**!!!*!!! !!   !!  !!!!!!!!!!!!!!!!!!!!!* !     !!!*!!!!*! !! !!!! *!! *!
```

```
NTDB id 316627 D2917 RS18080 WP 151071452.1  ALVTAVAGAMTYGLLAGMQVPALRTVAMLCVAALAVWSGRAPPASVVLACAALAALLLDPWAVMSPGFWLSFGAVAVIFY  381
NTDB id 1426 RS RS05575 WP 011001070.1       GAVAAMAAAFAYCLLAGMGVPAQRTLLMLATVAVARLADRSVPVSLSLCWAAALVALVDPWAVMSAGGWLSFGAVAVIFL  396
consensus                                    * ! !*!*!  !*!!!!! !!! !!* !!*  !*!     ! *! !* !**!!   !*!!!!!!!*! !!!!!!!!!!!
```

```
NTDB id 316627 D2917 RS18080 WP 151071452.1  AARSGHGAPET.....RWQ.RMCATLAAAARTQWAVTAGLVPLTLLLFQQVSVVSPLANAIAIPVVSLLVTPLSLAAAAV  455
NTDB id 1426 RS RS05575 WP 011001070.1       AARIVAADARDDVRRPAWPVRAWRGLRGAARVQLAVTFGLLPLTLLLFQQVSVVSAVANALAIPVVSFVTTPLALMGTAL  476
consensus                                    !!!  ** *  ***** !**! *  ! *!!! ! !!! !!*!!!!!!!!!!!!!!**!!!*!!!!!! * !!! ! * !*
```

```
NTDB id 316627 D2917 RS18080 WP 151071452.1  PATLAAPVLAVAHQAMVWLAALLGWLSSLPWAMWEAPVSGPLPLLLALLGIALLLAPPAG..AAVRLHGGLLVLPLVLAR  533
NTDB id 1426 RS RS05575 WP 011001070.1       PEPWSQPVLIWAEASFAWLMPWLDALALPGGSVWVAPAAPAWAWGLAVVGVPLLLVPGGYRAWAWRAQGAVLLLPMLLAR  556
consensus                                    ! *   !!!  !*    !! * !  !  ** *! !!  ** *  !!**!**!!! !** ** ! ! *!**!*!!**!!!
```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NTDB id 316627 D2917 RS18080 WP 151071452.1 GPPVAHGEFRAVMLDVGQGTAVLVQTRAHALLYDTGPAYASGGSAGAQVVVPVLRGLGLGRLDQLMVSHEDADHAGGVAD 613
NTDB id 1426 RS RS05575 WP 011001070.1 APAPPPGEFRMVAFDIGQGAATLVETAGHRLLFDTGPRQGDLADAADRVIVPYLRGHGVQAIDTLVVSHEDSDHAGGTET 636
consensus *!*** !!!! ! !*!!! ! !! ! *! !!*!!!! * * !* !*!! !!!*!* *! !*!!!!! !!!!!
logo
NTDB id 316627 D2917 RS18080 WP 151071452.1 VSAAVAVAARSTGAPPDHALLGPP...ASGWAPCAAGQQWDWDGVRFTVLHPLPSQSQQAAIASNARSCVLSVATARHRL 690
NTDB id 1426 RS RS05575 WP 011001070.1 VMAGVPVRTMLASLPPGHGLERQARALGIEPAGCVAGQRWAWDGVAFEILYPVQVPSDRAAVSSNARSCVLRIANARYAA 716
consensus ! !*!*! !! !*! ****** *!*! !!! ! !!!! ! *!*!** *! !!* !!!!!!!! *! !!*
logo
NTDB id 316627 D2917 RS18080 WP 151071452.1 LLTGDIGVAEERALIDRLPPDALHADVMVVAHHGSGTSSGVAWLEAVRPGAAVFQLGYANRYRHPRADVWERYGRAGIAR 770
NTDB id 1426 RS RS05575 WP 011001070.1 MLAGDIGRAQEAALIAAEAPERLMADILLVPHHGSRTSSSGAFLDAVSAQVAVFQVGYRNRYGHPHPQVWQRYGARGIER 796
consensus *! !!!! ! ! !!! *!* !*!!***!*!!!! !!! !*!*!! * !!!!*!! !!! !!** !! !!! !! !
logo
NTDB id 316627 D2917 RS18080 WP 151071452.1 YRSDETGAVTMATAPAGYTLSVFRQAEPRYWRDRPDAPR..... 809
NTDB id 1426 RS RS05575 WP 011001070.1 LRTDATGAVVIETRGDALAVRTARSMRPRYWSSALEVAALAETTEPTGAQP 847
consensus !*! !!!! * ! * * * ! !!!! ** * ************
X non conserved
X similar
X ≥ 50% conserved