

logo

|                                              |                                                                               |    |
|----------------------------------------------|-------------------------------------------------------------------------------|----|
| NTDB id 1399 DSB67 RS15600 WP 010645755.1    | MTPQNDDIDL.AAWLKLSCLPGIGGVKNKLLSKDTPSMIVQYSTLQLQLLGLTAKQIQAWSVVKEV..DA.....   | 68 |
| NTDB id 599 KW2 RS05940 WP 021037268.1       | MI..TNFDL.FRWKKAGM....TNLGVNKLK.FFRKY.....DR.....KISLRQMGOVAQVKSIPNFIEQYKNQD  | 59 |
| NTDB id 1031048 QUR24 RS05725 WP 000931873.1 | MI..NHILLKLIWSRFT.....TAQIHLLK.TFPSCCEVDEYER.....MHILENCKLLADKKIDAKVNRVKEIS   | 64 |
| NTDB id 40 MW RS06080 WP 000593192.1         | MI..KLFLKLKYWAHFS.....TKQIHQFLM.AYPNVTKKEGRKK.....DSYLCEWVNRREENVHLLRKYAATIKD | 64 |
| NTDB id 25 SA RS06185 WP 000593194.1         | MI..KLFLKLKYWAHFS.....TKQIHQFLM.AYPNVTKKEGRKK.....DSYLCEWVNRREENVHLLRKYAATIKD | 64 |
| consensus                                    | !* **!* ! *** * *** * * * *                                                   |    |

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|----------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1399 DSB67 RS15600 WP 010645755.1    | ..CLTWVAASSHHHLLADALYPPLLKQTVAPPPLLFFVKGEASCLPQPQ..IAMVGSRNASVDGLQHTRTFASDLVQHD    | 145 |
| NTDB id 599 KW2 RS05940 WP 021037268.1       | VKKIRA..DYKKFSSFSILDDLYPERLREIYNPPVLIIFYQGNIDLLKNPK.LAFVGSRLAGQSGIKSVQKIVT..ELNQSF | 135 |
| NTDB id 1031048 QUR24 RS05725 WP 000931873.1 | VDIEETTQKQTQINYYITCFDHNYPYLLKETYNYPILFYKGNINLLSYPHTLAVVGSRLSGDYTLKALNHLFVSFQMSF    | 144 |
| NTDB id 40 MW RS06080 WP 000593192.1         | HNDIIKELQKLVSYITYMDSEYPVLLKEIYQFPILLFYKGNIKLINNMHHLAVVGARDSTSYTQQSLEFLLSNDKSKYL    | 144 |
| NTDB id 25 SA RS06185 WP 000593194.1         | HNDIIKELQKLVSYITYMDSEYPVLLKEIYQFPILLFYKGNIKLINNMHHLAVVGARDSTSYTQQSLEFLLSNDKSKYL    | 144 |
| consensus                                    | ** *** ***** *! !! *!*****!***!***!*** ** * * * * *!***!***!***                    |     |

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| NTDB id 1399 DSB67 RS15600 WP 010645755.1    | INTSGLALCIDGHAHDGALLAGGKTIAVLCSGLIQVYPARHRCIAQVAENGALVSEFRDPAKPRAEFFPRNRRIISGLS  | 225 |
| NTDB id 599 KW2 RS05940 WP 021037268.1       | TIVSGLAKCIDTASHLSATTKTPTIAVIGTCLDIFYPLENRKIQEYLAKYQLVISEYSLGEKPLKYHFFERNRIIAGLS  | 215 |
| NTDB id 1031048 QUR24 RS05725 WP 000931873.1 | CVVSGLAQGADAMAHQIALKYNLPTIAVLAFGHQTHYPKSTSALRNKIEEKGLVISEYPPHTPIAKYRFPERNRIISGLS | 224 |
| NTDB id 40 MW RS06080 WP 000593192.1         | TIVSGLAQGADAMAHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKIEEKGLVISEYPPHTPIAKYRFPERNRIISGLS | 224 |
| NTDB id 25 SA RS06185 WP 000593194.1         | TIVSGLAQGADAMAHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKIEEKGLVISEYPPHTPIAKYRFPERNRIISGLS | 224 |
| consensus                                    | ***!!!!*!*!***!***!*****!!!!***!***!*** **********!**********!*****!***          |     |

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|----------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1399 DSB67 RS15600 WP 010645755.1    | LGVLVVEAAEKSGSLITARYALEQGREVFALPASINAPNASGQNQLIQNGACTVQNTQEVNLNIQSLLDWSINQSLDLFS | 305 |
| NTDB id 599 KW2 RS05940 WP 021037268.1       | RGVVVVEAKLRSGSLITCERALEGRDIFATPGNIADGTSDCNHLIQGAKLVYQAGDILEBYLYN.....            | 282 |
| NTDB id 1031048 QUR24 RS05725 WP 000931873.1 | KGVLITEAKEQSGSHITIDFALEQNRNVVYVLPGSMFNPMTKGNLLRIQEGAKVVNLNANDIFEDYYI.....        | 290 |
| NTDB id 40 MW RS06080 WP 000593192.1         | KGVLITEAKEQSGSHITIDFALEQNRNVVYVLPGSMFNPMTKGNLLRIQEGAKVVNLNANDIFEDYYI.....        | 290 |
| NTDB id 25 SA RS06185 WP 000593194.1         | KGVLITEAKEQSGSHITIDFALEQNRNVVYVLPGSMFNPMTKGNLLRIQEGAKVVNLNANDIFEDYYI.....        | 290 |
| consensus                                    | *!*****!***!***!***!*****!*****!***!***!***!*****!*****                          |     |

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|----------------------------------------------|----------------------------------------------------------------|-----|
| NTDB id 1399 DSB67 RS15600 WP 010645755.1    | APIDEEELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLELELSGHVAVSGGYIRKGRG | 369 |
| NTDB id 599 KW2 RS05940 WP 021037268.1       | APIDEEELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLELELSGHVAVSGGYIRKGRG | 282 |
| NTDB id 1031048 QUR24 RS05725 WP 000931873.1 | .....                                                          | 290 |
| NTDB id 40 MW RS06080 WP 000593192.1         | .....                                                          | 290 |
| NTDB id 25 SA RS06185 WP 000593194.1         | .....                                                          | 290 |
| consensus                                    | .....                                                          |     |

 non conserved  
 similar  
  $\geq 50\%$  conserved