logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  MSAPIRAFDPLTAPISGTNLIEASAGTGKTYGIAALFTRLIVLEQKSVERVLVVTFTKAATAELKTRLRARLDDVLQVLE   80
NTDB id 1132 OK783 RS01905 WP 010951035.1    MSAPIRAFDPLTAPISGTNLIEASAGTGKTYGIAALFTRLIVLEQKSVERVLVVTFTKAATAELKTRLRARLDDVLQVLE   80
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  SKEIAELGDDTLSDGIAAYCAEHHEGDTFLPALLEQALQKESRTRLIVRLKAAIGQFDNAAIYTIHGFCQRILRDYAFLC  160
NTDB id 1132 OK783 RS01905 WP 010951035.1    SKEIAELGDDTLSDGIAAYCAEHHEGDTFLPALLEQALQKESRTRLIVRLKAAIGQFDNAAIYTIHGFCQRILRDYAFLC  160
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  QAPFDVELTEEDGDRLLVPAQDFWRERVSGDPVLAALAFKRKAVPQTVLAQIRAYLSRPYLNFRRPQADLKQAQRDAETS  240
NTDB id 1132 OK783 RS01905 WP 010951035.1    QAPFDVELTEEDGDRLLVPAQDFWRERVSGDPVLAALAFKRKAVPQTVLAQIRAYLSRPYLNFRRPQADLKQAQRDAETS  240
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  WQTVCRLLPELEAGFWRIHPDLNGNSYRKNSFGNLFKELAQKSAAGQLPFLDKDTHERLLKLSSDKLEAGLKKGKTPDAA  320
NTDB id 1132 OK783 RS01905 WP 010951035.1    WQTVCRLLPELEAGFWRIHPDLNGNSYRKNSFGNLFKELAQKSAAGQLPCLDKDTHERLLKLSSDKLEAGLKKGKTPDAA  320
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  VFAELQKLADFGRDLNALEEAEEATMIRLQLDLIEYLNSSLAEMKKSRRERGFDDLLLDVHTALTDNPHAETPARAVAEN  400
NTDB id 1132 OK783 RS01905 WP 010951035.1    VFAELQKLADFGRDLNALEEAEETTMIRLQLDLIEYLNSSLAEMKKSRRERGFDDLLLDVHTALTDNPHAETPARAVAEN  400
consensus                                    !!!!!!!!!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  WEIALIDEFQDTDPLQYEIFQKIFIARNRPLFLVGDPKQAIYSFRGADIYAYLQAAEDARHRYTLATNYRSHAALIGSIG  480
NTDB id 1132 OK783 RS01905 WP 010951035.1    WEIALIDEFQDTDPLQYEIFQKIFIARNRPLFLVGDPKQAIYSFRGADIYAYLQAAEDARHRYTLATNYRSHAALIGSIG  480
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  ALFRLKERPFVLENIGYSEVGAARAESRLSPKRPAVQLRWLHENDNEKANKDVLRRRAADYCADEIAHALNEASGGRLNF  560
NTDB id 1132 OK783 RS01905 WP 010951035.1    ALFRLKERPFVLENIGYSEVGAARAESRLSPKRPAVQLRWLHENDNEKANKDVLRRRAADYCADEIARALNEASGGRLNF  560
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  KGRPLQSGDIAVLVRTHNEAVMISAALKKRQVQSVLLSRESVFASPEAAALSALIGFWLEPRRAGTLRFVLTSGIFGYDA   640
NTDB id 1132 OK783 RS01905 WP 010951035.1    KDRPLQSGDIAVLVRTHNEAVMISAALKKRQVQSVLLSRESVFASPEAAALSALIGFWLEPRRAGTLRFVLTSGIFGYDA   640
consensus                                    ! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  QQLHDFNQNESEILHWAESARTALDIWQKYGIFAAMQQFSQTHGIETRLLSRNNGRSLTNYFQLLELLAAEDAQNRNPAA   720
NTDB id 1132 OK783 RS01905 WP 010951035.1    QQLHDFNQNESEILHWAESARTALDIWQKYGIFAAMQQFSQTHGIETRLLSRNNGRSLTNYFQLLELLAAEDAQNRNPAA   720
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  LHKWLRDQISLAGNNGGDNRAIRLESDEDLVKIVTMHASKGLQYPLVYCPFAWDAQDTGPSDWQILHQGANRAELLAKAQ   800
NTDB id 1132 OK783 RS01905 WP 010951035.1    LHKWLRDQISLAGNNGGDNRAIRLESDEDLVKIVTMHASKGLQYPLVYCPFAWDAQDTGPSDWQILHQGANRAELLAKAQ   800
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  LSESEQKQYADEEMAERLRLLYVALTRAEEQLNIYAAYSSDTADNPLAYLIEGLPQDSRETVRRTYACEKDGITMLKRNW   880
NTDB id 1132 OK783 RS01905 WP 010951035.1    LSESEQKQYADEEMAERLRLLYVALTRAEEQLNIYAAYSSDTADNPLAYLIEGLPQDSRETVRRTYACEKDGITMLKRNW   880
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

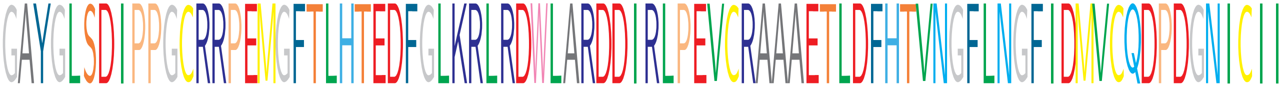
logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  RRVADNAPAGTDFAFTEDAPPPAAYRGNADQAAEFAANSIPERGFRFVRHTSFTALSRQTQTPDGGEEDACPSLDAAETS   960
NTDB id 1132 OK783 RS01905 WP 010951035.1    RRVADNAPAGTDFTFTEDAPPPAAYRGNADQAAEFAANSIPERGFRFVRHTSFTALSRHTQTPDGGEEDACPSLDAAETS   960
consensus                                    !!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  VPAMPSETPTASDGISIHDFPKGTQAGLCLHEILEDFKFGQAAAEQETLIADKLKKYGFEEIWLPAVAEMAEACRKTPLT  1040
NTDB id 1132 OK783 RS01905 WP 010951035.1    VPAMPSETPTASDGISIHDFPKGTQAGLCLHEILEDFKFGQAAAEQETLIADKLKKYGFEEIWLPAVAEMAEACRKTPLT  1040
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo



```
NTDB id 185123 AS012 RS01970 WP 012503449.1  GAYGLSDIPPGCRRPEMGFTLHTEDFGLKRLRDWLARDDIRLPEVCRAAAETLDFHTVNGFLNGFIDMVCQDPDGNICII  1120
NTDB id 1132 OK783 RS01905 WP 010951035.1    GAYGLSDIPPGCRRPEMGFTLHTEDFGLKRLRDWLARDDIRLPEVCRAAAETLDFHTVNGFLNGFIDMVCQDPDGNICII  1120
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 185123 AS012 RS01970 WP 012503449.1  DYKSNHLSAYTRQAMDEAVAHQHYYLQALIYAVAAARYFKLRGQPPAAVSVRYLFLRGLDGKGGGVWRWDIDAAALEQIK  1200
NTDB id 1132 OK783 RS01905 WP 010951035.1    DYKSNHLSAYTRQAMDEAVAHQHYYLQALIYAVAAARYFKLRGQPPAAVSVRYLFLRGLDGKGGGVWRWDIDAAALEQIK  1200
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

X non conserved

X similar

X ≥ 50% conserved