logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1  MSAPIRAFDPLTAPISGTNLIEASAGTGKTYGIAALFTRLIVLEQKSVERVLVVTFTKAATAELKTRLRARLDDVLQVLESKEIA   85
NTDB id 1132 OK783 RS01905 WP 010951035.1 MSAPIRAFDPLTAPISGTNLIEASAGTGKTYGIAALFTRLIVLEQKSVERVLVVTFTKAATAELKTRLRARLDDVLQVLESKEIA   85
consensus                                 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

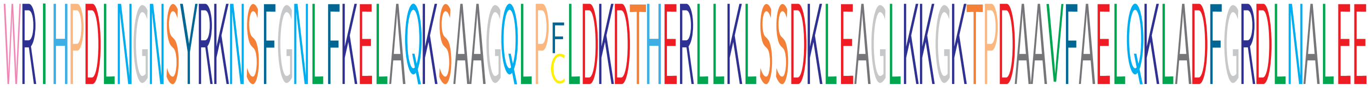
logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1  ELGDDTLSDGIAAYCAEHHEGDTFLPALLEQALQKESRTRLIVRLKAAIGQFDNAAIYTIHGFCQRILRDYAFLCQAPFDVELTE  170
NTDB id 1132 OK783 RS01905 WP 010951035.1 ELGDDTLSDGIAAYCAEHHEGDTFLPALLEQALQKESRTRLIVRLKAAIGQFDNAAIYTIHGFCQRILRDYAFLCQAPFDVELTE  170
consensus                                 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1  EDGDRLLVPAQDFWRERVSGDPVLAALAFKRKAVPQTVLAQIRAYLSRPYLNFRRPQADLKQAQRDAETSWQTVCRLLPELEAGF  255
NTDB id 1132 OK783 RS01905 WP 010951035.1 EDGDRLLVPAQDFWRERVSGDPVLAALAFKRKAVPQTVLAQIRAYLSRPYLNFRRPQADLKQAQRDAETSWQTVCRLLPELEAGF  255
consensus                                 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo



```
NTDB id 31217 NGK RS02305 WP 012503449.1  WRIHPDLNGNSYRKNSFGNLFKELAQKSAAGQLPFLDKDTHERLLKLSSDKLEAGLKKGKTPDAAVFAELQKLADFGRDLNALEE  340
NTDB id 1132 OK783 RS01905 WP 010951035.1 WRIHPDLNGNSYRKNSFGNLFKELAQKSAAGQLPCLDKDTHERLLKLSSDKLEAGLKKGKTPDAAVFAELQKLADFGRDLNALEE  340
consensus                                 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1  AEEATMIRLQLDLIEYLNSSLAEMKKSRRERGFDDLLLDVHTALTDNPHAETPARAVAENWEIALIDEFQDTDPLQYEIFQKIFI  425
NTDB id 1132 OK783 RS01905 WP 010951035.1 AEETTMIRLQLDLIEYLNSSLAEMKKSRRERGFDDLLLDVHTALTDNPHAETPARAVAENWEIALIDEFQDTDPLQYEIFQKIFI  425
consensus                                 !!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1  ARNRPLFLVGDPKQAIYSFRGADIYAYLQAAEDARHRYTLATNYRSHAALIGSIGALFRLKERPFVLENIGYSEVGAARAESRLS  510
NTDB id 1132 OK783 RS01905 WP 010951035.1 ARNRPLFLVGDPKQAIYSFRGADIYAYLQAAEDARHRYTLATNYRSHAALIGSIGALFRLKERPFVLENIGYSEVGAARAESRLS  510
consensus                                 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1  PKRPAVQLRWLHENDNEKANKDVLRRRAADYCADEIAHALNEASGGRLNFKGRPLQSGDIAVLVRTHNEAVMISAALKKRQVQSV  595
NTDB id 1132 OK783 RS01905 WP 010951035.1 PKRPAVQLRWLHENDNEKANKDVLRRRAADYCADEIARALNEASGGRLNFKDRPLQSGDIAVLVRTHNEAVMISAALKKRQVQSV  595
consensus                                 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

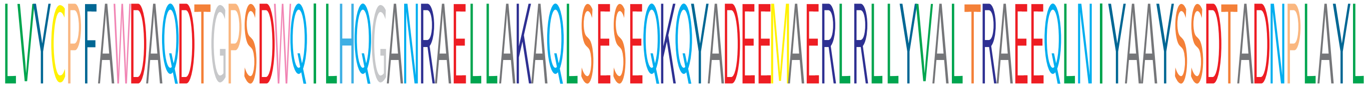
logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1   LLSRESVFASPEAAALSALIGFWLEPRRAGTLRFVLTSGIFGYDAQQLHDFNQNESEILHWAESARTALDIWQKYGIFAAMQQFS   680
NTDB id 1132 OK783 RS01905 WP 010951035.1  LLSRESVFASPEAAALSALIGFWLEPRRAGTLRFVLTSGIFGYDAQQLHDFNQNESEILHWAESARTALDIWQKYGIFAAMQQFS   680
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1   QTHGIETRLLSRNNGRSLTNYFQLLELLAAEDAQNRNPAALHKWLRDQISLAGNNGGDNRAIRLESDEDLVKIVTMHASKGLQYP   765
NTDB id 1132 OK783 RS01905 WP 010951035.1  QTHGIETRLLSRNNGRSLTNYFQLLELLAAEDAQNRNPAALHKWLRDQISLAGNNGGDNRAIRLESDEDLVKIVTMHASKGLQYP   765
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo



```
NTDB id 31217 NGK RS02305 WP 012503449.1   LVYCPFAWDAQDTGPSDWQILHQGANRAELLAKAQLSESEQKQYADEEMAERLRLLYVALTRAEEQLNIYAAYSSDTADNPLAYL   850
NTDB id 1132 OK783 RS01905 WP 010951035.1  LVYCPFAWDAQDTGPSDWQILHQGANRAELLAKAQLSESEQKQYADEEMAERLRLLYVALTRAEEQLNIYAAYSSDTADNPLAYL   850
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1   IEGLPQDSRETVRRTYACEKDGITMLKRNWRRVADNAPAGTDFAFTEDAPPPAAYRGNADQAAEFAANSIPERGFRFVRHTSFTA   935
NTDB id 1132 OK783 RS01905 WP 010951035.1  IEGLPQDSRETVRRTYACEKDGITMLKRNWRRVADNAPAGTDFTFTEDAPPPAAYRGNADQAAEFAANSIPERGFRFVRHTSFTA   935
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1   LSRQTQTPDGGEEDACPSLDAAETSVPAMPSETPTASDGISIHDFPKGTQAGLCLHEILEDFKFGQAAAEQETLIADKLKKYGFE  1020
NTDB id 1132 OK783 RS01905 WP 010951035.1  LSRHTQTPDGGEEDACPSLDAAETSVPAMPSETPTASDGISIHDFPKGTQAGLCLHEILEDFKFGQAAAEQETLIADKLKKYGFE  1020
consensus                                  !!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1   EIWLPAVAEMAEACRKTPLTGAYGLSDIPPGCRRPEMGFTLHTEDFGLKRLRDWLARDDIRLPEVCRAAAETLDFHTVNGFLNGF  1105
NTDB id 1132 OK783 RS01905 WP 010951035.1  EIWLPAVAEMAEACRKTPLTGAYGLSDIPPGCRRPEMGFTLHTEDFGLKRLRDWLARDDIRLPEVCRAAAETLDFHTVNGFLNGF  1105
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1   IDMVCQDPDGNICIIDYKSNHLSAYTRQAMDEAVAHQHYYLQALIYAVAAARYFKLRGQPPAAVSVRYLFLRGLDGKGGGVWRWD  1190
NTDB id 1132 OK783 RS01905 WP 010951035.1  IDMVCQDPDGNICIIDYKSNHLSAYTRQAMDEAVAHQHYYLQALIYAVAAARYFKLRGQPPAAVSVRYLFLRGLDGKGGGVWRWD  1190
consensus                                  !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

logo

```
NTDB id 31217 NGK RS02305 WP 012503449.1    IDAAALEQIK  1200
NTDB id 1132 OK783 RS01905 WP 010951035.1   IDAAALEQIK  1200
consensus                                   !!!!!!!!!!
```

X non conserved

X similar

X ≥ 50% conserved