```
logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 591 KW2 RS10830 WP 014735174.1      ..........MKLKIRAFTLLECLVALLAISGSVLVISGLTRMIEEQMKISQNDSRKDWQIFCEQMRSELSGAKLDNVNQNFLYV   75
NTDB id 275 KZH43 RS09240 WP 000250534.1    .MVQNSCWQSKSHKVKAFTLLESLLALIVISGGLLLFQAMSQLLISEVRYQQQSEQKEWLLFVDQLEVELDRSQFEKVEGNRLYM   84
NTDB id 234 SPD RS09870 WP 000250534.1      .MVQNSCWQSKSHKVKAFTLLESLLALIVISGGLLLFQAMSQLLISEVRYQQQSEQKEWLLFVDQLEVELDRSQFEKVEGNRLYM   84
NTDB id 200 SPR RS09405 WP 000250534.1      .MVQNSCWQSKSHKVKAFTLLESLLALIVISGGLLLFQAMSQLLISEVRYQQQSEQKEWLLFVDQLEVELDRSQFEKVEGNRLYM   84
NTDB id 165 SP RS10355 WP 000250534.1       .MVQNSCWQSKSHKVKAFTLLESLLALIVISGGLLLFQAMSQLLISEVRYQQQSEQKEWLLFVDQLEVELDRSQFEKVEGNRLYM   84
NTDB id 505 SM12261 RS00970 WP 000250509.1  .MVQNSCWLSKSHKIKAFTLLESLIALIVISGSLLLFQAMSQLLISEVRYQQQSEQKEWLLFVDQLEAELDRSQFEKVEGDRIYM   84
NTDB id 533 SMSK321 RS09215 WP 000250512.1  .MVQNSCWLSKSHKVKAFTLLESLIALIVISGSLLLFQAMSQLLISEVRYQQQSEQKEWLLFVDQLEAELDRSQFEKIEGNRIYM   84
NTDB id 139763 SI82 RS00860 WP 119773875.1 MKSIKKSLALRKISLKAFTLLECMLALVILSGAILVYQGMTKSLFFNMSYLVENDQDKWLLFSQQLRAELTGARFEKVENNKLYV   85
NTDB id 399 FSA28 RS09380 WP 002264245.1    .........MLKSKLKAFTLLECLLALLVIAGSVSVYNGLTKAISSNIHYLSKNQEDAWLLFCQQFRSELEGTTLQKLDSNKLYV   76
NTDB id 390 SMU RS09010 WP 002263440.1      .........MLKSKLKAFTLLECLLALLVIAGSVSVYNGLTKAISSNIHYLSKNQEDAWLLFCQQFRSELEGTTLQKLDSNKLYI   76
consensus                                    ******* *******!!!!!!***!!****!*************************!**!**!** !!**************!*
```

```
logo                                                                                                                                                                                                                                                                                                                                                
NTDB id 591 KW2 RS10830 WP 014735174.1      TKDK.KLRFGLV.GDDFRKSDDKGQGYQPMLYDLKGAKIQAEENLIKITIDFDNGGERVFIYRFTDTK.   141
NTDB id 275 KZH43 RS09240 WP 000250534.1    KQDGKDIAIGKSKSDDFRKTNARGRGYQPMVYGLKSVRITEDNQLVRFHFQFQKGLEREFIYRVEKEKS   153
NTDB id 234 SPD RS09870 WP 000250534.1      KQDGKDIAIGKSKSDDFRKTNARGRGYQPMVYGLKSVRITEDNQLVRFHFQFQKGLEREFIYRVEKEKS   153
NTDB id 200 SPR RS09405 WP 000250534.1      KQDGKDIAIGKSKSDDFRKTNARGRGYQPMVYGLKSVRITEDNQLVRFHFQFQKGLEREFIYRVEKEKS   153
NTDB id 165 SP RS10355 WP 000250534.1       KQDGKDIAIGKSKSDDFRKTNARGRGYQPMVYGLKSVRITEDNQLVRFHFQFQKGLEREFIYRVEKEKS   153
NTDB id 505 SM12261 RS00970 WP 000250509.1  KQDGKEIAIGKSKSDDFRKTDASGRGYQPMVYGLKSAQITEENQVVRFRFQFQKGLEREFIYRVEKAKS   153
NTDB id 533 SMSK321 RS09215 WP 000250512.1  KQDGKDISIGKLKSDDFRKTDASGRGYQPMVYGLKSAQITEDNQLVRFRFQFQKGLEREFIYRVEKAKS   153
NTDB id 139763 SI82 RS00860 WP 119773875.1  AKEGKQIAFGLSKQGDFRKTAANGHGYHPMLLDLKDAKISHHNKEITVSITWKSGLERVFLYAF.....   149
NTDB id 399 FSA28 RS09380 WP 002264245.1    QKNNQSLAFGKSKASDFRKTNSDGRGYQPMLTEIKAANFSQSGKIIKLDLTFKDGLERTFVYAFHEKN.   144
NTDB id 390 SMU RS09010 WP 002263440.1      QKNNQSLAFGKSKASDFRKTNSDGRGYQPMLTEIKAANFSQSGKIIKLDLTFKDGLERTFVYAFHEKN.   144
consensus                                   *********!*****!!!!****!*!!*!!****!************* *****!*!!*!*!**** **
```

X non conserved

X similar

X ≥ 50% conserved