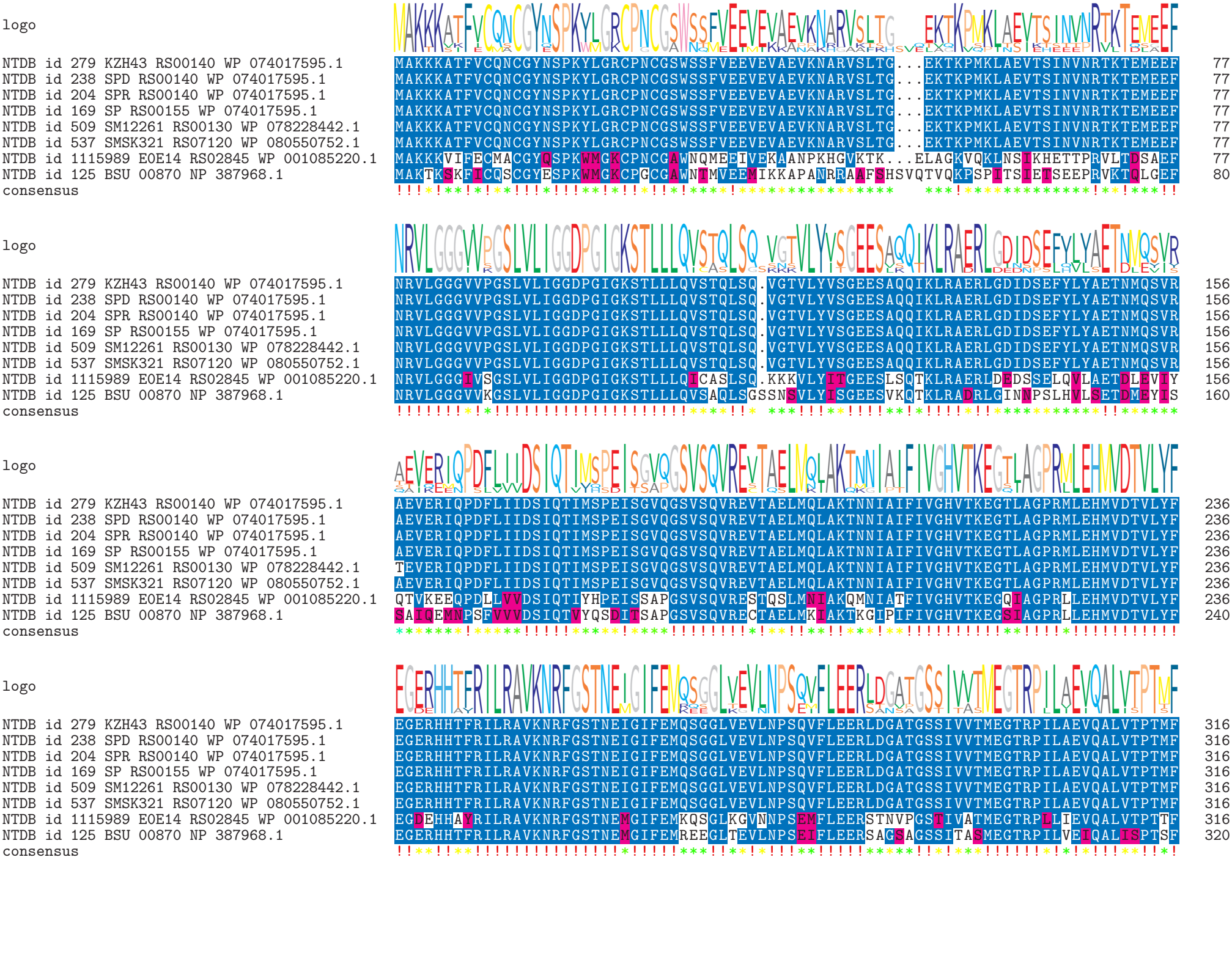
logo
NTDB id 279 KZH43 RS00140 WP 074017595.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLTG...EKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 238 SPD RS00140 WP 074017595.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLTG...EKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 204 SPR RS00140 WP 074017595.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLTG...EKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 169 SP RS00155 WP 074017595.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLTG...EKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 509 SM12261 RS00130 WP 078228442.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLTG...EKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 537 SMSK321 RS07120 WP 080550752.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLTG...EKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 1115989 E0E14 RS02845 WP 001085220.1 MAKKKVIFECMACGYQSPKWMGKCPNCGAWNQMEEIVEKAANPKHGVKTK...ELAGKVQKLNSIKHETTPRVLTDSAEF 77
NTDB id 125 BSU 00870 NP 387968.1 MAKTKSKFICQSCGYESPKWMGKCPGCGAWNTMVEEMIKKAPANRRAAFSHSVQTVQKPSPITSIETSEEPRVKTQLGEF 80
consensus
logo
NTDB id 279 KZH43 RS00140 WP 074017595.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQ.VGTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 238 SPD RS00140 WP 074017595.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQ.VGTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 204 SPR RS00140 WP 074017595.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQ.VGTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 169 SP RS00155 WP 074017595.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQ.VGTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 509 SM12261 RS00130 WP 078228442.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQ.VGTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 537 SMSK321 RS07120 WP 080550752.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQ.VGTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 1115989 E0E14 RS02845 WP 001085220.1 NRVLGGGIVSGSLVLIGGDPGIGKSTLLLQICASLSQ.KKKVLYITGEESLSQTKLRAERLDEDSSELQVLAETDLEVIY 156
NTDB id 125 BSU 00870 NP 387968.1 NRVLGGGVVKGSLVLIGGDPGIGKSTLLLQVSAQLSGSSNSVLYISGEESVKQTKLRADRLGINNPSLHVLSETDMEYIS 160
consensus
logo
NTDB id 279 KZH43 RS00140 WP 074017595.1 AEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYF 236
NTDB id 238 SPD RS00140 WP 074017595.1 AEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYF 236
NTDB id 204 SPR RS00140 WP 074017595.1 AEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYF 236
NTDB id 169 SP RS00155 WP 074017595.1 AEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYF 236
NTDB id 509 SM12261 RS00130 WP 078228442.1 TEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYF 236
NTDB id 537 SMSK321 RS07120 WP 080550752.1 AEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYF 236
NTDB id 1115989 E0E14 RS02845 WP 001085220.1 QTVKEEQPDLLVVDSIQTIYHPEISSAPGSVSQVRESTQSLMNIAKQMNIATFIVGHVTKEGQIAGPRLLEHMVDTVLYF 236
NTDB id 125 BSU 00870 NP 387968.1 SAIQEMNPSFVVVDSIQTVYQSDITSAPGSVSQVRECTAELMKIAKTKGIPIFIVGHVTKEGSIAGPRLLEHMVDTVLYF 240
consensus
logo
NTDB id 279 KZH43 RS00140 WP 074017595.1 EGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMF 316
NTDB id 238 SPD RS00140 WP 074017595.1 EGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMF 316
NTDB id 204 SPR RS00140 WP 074017595.1 EGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMF 316
NTDB id 169 SP RS00155 WP 074017595.1 EGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMF 316
NTDB id 509 SM12261 RS00130 WP 078228442.1 EGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMF 316
NTDB id 537 SMSK321 RS07120 WP 080550752.1 EGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMF 316
NTDB id 1115989 E0E14 RS02845 WP 001085220.1 EGDEHHAYRILRAVKNRFGSTNEMGIFEMKQSGLKGVNNPSEMFLEERSTNVPGSTIVATMEGTRPLLIEVQALVTPTTF 316
NTDB id 125 BSU 00870 NP 387968.1 EGERHHTFRILRAVKNRFGSTNEMGIFEMREEGLTEVLNPSEIFLEERSAGSAGSSITASMEGTRPILVEIQALISPTSF 320
consensus

logo

```
NTDB id 279 KZH43 RS00140 WP 074017595.1      GNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLT  396
NTDB id 238 SPD RS00140 WP 074017595.1        GNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLT  396
NTDB id 204 SPR RS00140 WP 074017595.1        GNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLT  396
NTDB id 169 SP RS00155 WP 074017595.1         GNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLT  396
NTDB id 509 SM12261 RS00130 WP 078228442.1    GNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLT  396
NTDB id 537 SMSK321 RS07120 WP 080550752.1    GNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLT  396
NTDB id 1115989 E0E14 RS02845 WP 001085220.1  NNPRRMATGIDHNRLSLLMAVLEKKENYLLQQQDAYIKVAGGVKLTEPAVDLSVIVATASSFKDKAVDGLDCYIGEVGLT  396
NTDB id 125 BSU 00870 NP 387968.1             GNPRRMATGIDHNRVSLLMAVLEKRVGLLLQNQDAYLKVAGGVKLDEPAIDLAIVISIASSFRDTPPNPADCFIGEVGLT  400
consensus                                     *!***!**!!*!*!!*!!*!!!!!!!*****!!!*!!!!!*!*!!!!!!*!!!*!!*****!!!**!*******!**!!*!!!
```

logo

```
NTDB id 279 KZH43 RS00140 WP 074017595.1      GEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 238 SPD RS00140 WP 074017595.1        GEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 204 SPR RS00140 WP 074017595.1        GEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 169 SP RS00155 WP 074017595.1         GEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 509 SM12261 RS00130 WP 078228442.1    GEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITPPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 537 SMSK321 RS07120 WP 080550752.1    GEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITPPMEIQVIGVTTIQEVLKKVFA.   453
NTDB id 1115989 E0E14 RS02845 WP 001085220.1  GEVRRVSRIEQRVQEAAKLGFKRVIIPKNNIGGWTYPEGIQVIGVTTVHEVLSFALHS   454
NTDB id 125 BSU 00870 NP 387968.1             GEVRRVSRIEQRVKEAAKLGFKRMIIPAANLDGWTKPKGIEVIGVANVAEALRTSLGG   458
consensus                                     !!*!!!*!!!!!!**!!!!!!!*****!*****!*!  !**!*!!!!*****!*!*****
```

X non conserved

X similar

X ≥ 50% conserved