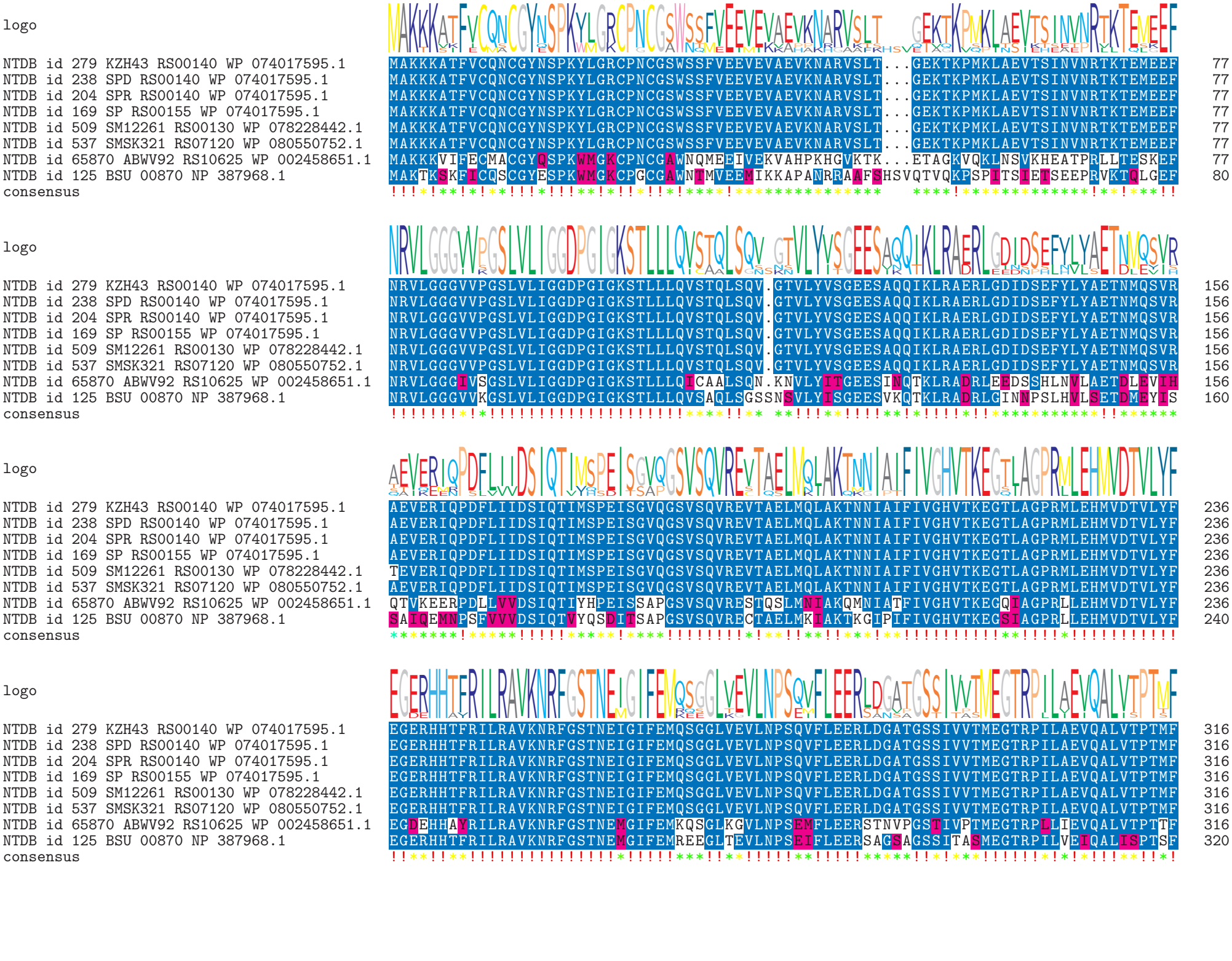

logo
NTDB id 279 KZH43 RS00140 WP 074017595.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLT...GEKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 238 SPD RS00140 WP 074017595.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLT...GEKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 204 SPR RS00140 WP 074017595.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLT...GEKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 169 SP RS00155 WP 074017595.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLT...GEKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 509 SM12261 RS00130 WP 078228442.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLT...GEKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 537 SMSK321 RS07120 WP 080550752.1 MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNARVSLT...GEKTKPMKLAEVTSINVNRTKTEMEEF 77
NTDB id 65870 ABWV92 RS10625 WP 002458651.1 MAKKKVIFECMACGYQSPKWMGKCPNCGAWNQMEEIVEKVAHPKHGVKTK...ETAGKVQKLNSVKHEATPRLLTESKEF 77
NTDB id 125 BSU 00870 NP 387968.1 MAKTKSKFICQSCGYESPKWMGKCPGCGAWNTMVEEMIKKAPANRRAAFSHSVQTVQKPSPITSIETSEEPRVKTQLGEF 80
consensus
logo
NTDB id 279 KZH43 RS00140 WP 074017595.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 238 SPD RS00140 WP 074017595.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 204 SPR RS00140 WP 074017595.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 169 SP RS00155 WP 074017595.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 509 SM12261 RS00130 WP 078228442.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 537 SMSK321 RS07120 WP 080550752.1 NRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVR 156
NTDB id 65870 ABWV92 RS10625 WP 002458651.1 NRVLGGGIVSGSLVLIGGDPGIGKSTLLLQICAALSQN.KNVLYITGEESINQTKLRADRLEEDSSHLNVLAETDLEVIH 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 65870 ABWV92 RS10625 WP 002458651.1 QTVKEERPDLLVVDSIQTIYHPEISSAPGSVSQVRESTQSLMNIAKQMNIATFIVGHVTKEGQIAGPRLLEHMVDTVLYF 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 65870 ABWV92 RS10625 WP 002458651.1 EGDEHHAYRILRAVKNRFGSTNEMGIFEMKQSGLKGVLNPSEMFLEERSTNVPGSTIVPTMEGTRPLLIEVQALVTPTTF 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 65870 ABWV92 RS10625 WP 002458651.1  NNPRRMATGIDHNRLSLLMAVLEKKENYLLQQQDAYIKVAGGVKLTEPAVDLSIIVATASSFKDQAVDGLDCFVGEVGLT  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 65870 ABWV92 RS10625 WP 002458651.1  GEVRRVSRIEQRVQEAAKLGFKRAIIPQTNIGGWTFPEGIQVVGVSSVHEALKYALHSKPR  457
NTDB id 125 BSU 00870 NP 387968.1            GEVRRVSRIEQRVKEAAKLGFKRMIIPAANLDGWTKPKGIEVIGVANVAEALRTSLGG...  458
consensus                                    !!*!!!*!!!!!!**!!!!!!!!*****!****!*!  !**!*!*!!****!*!*****
```

X non conserved

X similar

X ≥ 50% conserved