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logo
NTDB id 413805 IXO1104 RS08140 WP 011258418.1  MAKAKTAYVCGECGAEYTKWQGQCTECGVWNTLSEIVLESATPGGKASPATSRRIGWAGKA.EAPKITALKDVQQSEQAR   79
NTDB id 125 BSU 00870 NP 387968.1              MAKTKSKFICQSCGYESPKWMGKCPGCGAWNTMVEEMIKKAPANRR........AAFSHSVQTVQKPSPITSIETSEEPR   72
NTDB id 509 SM12261 RS00130 WP 078228442.1     MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR........VSLTGE...KTKPMKLAEVTSINVNR   69
NTDB id 279 KZH43 RS00140 WP 074017595.1       MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR........VSLTGE...KTKPMKLAEVTSINVNR   69
NTDB id 238 SPD RS00140 WP 074017595.1         MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR........VSLTGE...KTKPMKLAEVTSINVNR   69
NTDB id 204 SPR RS00140 WP 074017595.1         MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR........VSLTGE...KTKPMKLAEVTSINVNR   69
NTDB id 169 SP RS00155 WP 074017595.1          MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR........VSLTGE...KTKPMKLAEVTSINVNR   69
NTDB id 537 SMSK321 RS07120 WP 080550752.1     MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR........VSLTGE...KTKPMKLAEVTSINVNR   69
consensus                                      !!!*!****!**!!****!**!*!**!!*!****!**********         ******   **!**************!

logo
NTDB id 413805 IXO1104 RS08140 WP 011258418.1  VSTGIGEFDRVLGGGLVEGAVVLIGGDPGIGKSTLLLQALASMAST.LPVLYVTGEESLAQVAGRAVRLDLPLDGLNALS  158
NTDB id 125 BSU 00870 NP 387968.1              VKTQLGEFNRVLGGGVVKGSLVLIGGDPGIGKSTLLLQVSAQLSGSSNSVLYISGEESVKQTKLRADRLGINNPSLHVLS  152
NTDB id 509 SM12261 RS00130 WP 078228442.1     TKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYA  148
NTDB id 279 KZH43 RS00140 WP 074017595.1       TKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYA  148
NTDB id 238 SPD RS00140 WP 074017595.1         TKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYA  148
NTDB id 204 SPR RS00140 WP 074017595.1         TKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYA  148
NTDB id 169 SP RS00155 WP 074017595.1          TKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYA  148
NTDB id 537 SMSK321 RS07120 WP 080550752.1     TKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDIDSEFYLYA  148
consensus                                      **!***!!*!!!!!!*!*!**!!!!!!!!!!!!!!!!!!********  **!!!**!!!!**!***!!*!!***********

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NTDB id 413805 IXO1104 RS08140 WP 011258418.1  ETGIEHILQHASVARPRLIVADSVQTLWTESLTAAPGSVSQVRESAARLVRYAKETGTAVFLVGHVTKEGGIAGPRVLEH  238
NTDB id 125 BSU 00870 NP 387968.1              ETDMEYISSAIQEMNPSFVVVDSIQTVYQSDITSAPGSVSQVRECTAELMKIAKTKGIPIFIVGHVTKEGSIAGPRLLEH  232
NTDB id 509 SM12261 RS00130 WP 078228442.1     ETNMQSVRTEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEH  228
NTDB id 279 KZH43 RS00140 WP 074017595.1       ETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEH  228
NTDB id 238 SPD RS00140 WP 074017595.1         ETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEH  228
NTDB id 204 SPR RS00140 WP 074017595.1         ETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEH  228
NTDB id 169 SP RS00155 WP 074017595.1          ETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEH  228
NTDB id 537 SMSK321 RS07120 WP 080550752.1     ETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEH  228
consensus                                      !!*************!*****!!*!!**********!!!!!!!!**!*!***!!******!*!!!!!!!!**!!!!*!!!

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NTDB id 413805 IXO1104 RS08140 WP 011258418.1  MVDAVLYFEGESGSRFRLLRAFKNRFGAVNELGVFAMGEKGLKEVSNPSAIFLSGGSTQQPGSCVMVTREGTRPLMVEVQ  318
NTDB id 125 BSU 00870 NP 387968.1              MVDTVLYFEGERHHTFRILRAVKNRFGSTNEMGIFEMREEGLTEVLNPSEIFLEERSAGSAGSSITASMEGTRPILVEIQ  312
NTDB id 509 SM12261 RS00130 WP 078228442.1     MVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQ  308
NTDB id 279 KZH43 RS00140 WP 074017595.1       MVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQ  308
NTDB id 238 SPD RS00140 WP 074017595.1         MVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQ  308
NTDB id 204 SPR RS00140 WP 074017595.1         MVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQ  308
NTDB id 169 SP RS00155 WP 074017595.1          MVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQ  308
NTDB id 537 SMSK321 RS07120 WP 080550752.1     MVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQ  308
consensus                                      !!!*!!!!!!!****!!*!!!*!!!!!**!!*!*!*!***!!*!!*!!!**!!********!!******!!!!!***!*!
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logo
NTDB id 413805 IXO1104 RS08140 WP 011258418.1   ALVDASPLSNPRRVAVGLEQNRLAMLLAVLHRHGGIVVGDQDVFVNVVGGIRVQETAADLPVLLAVLSSLRDRPLAEKTI   398
NTDB id 125 BSU 00870 NP 387968.1               ALISPTSFGNPRRMATGIDHNRVSLLMAVLEKRVGLLLQNQDAYLKVAGGVKLDEPAIDLAIVISIASSFRDTPPNPADC   392
NTDB id 509 SM12261 RS00130 WP 078228442.1      ALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQEC   388
NTDB id 279 KZH43 RS00140 WP 074017595.1        ALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQEC   388
NTDB id 238 SPD RS00140 WP 074017595.1          ALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQEC   388
NTDB id 204 SPR RS00140 WP 074017595.1          ALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQEC   388
NTDB id 169 SP RS00155 WP 074017595.1           ALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQEC   388
NTDB id 537 SMSK321 RS07120 WP 080550752.1      ALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQEC   388
consensus                                       !!*******!**!***!***!!*****!!!****!*****!!******!!****!*!*!!*******!!**!*!******

logo
NTDB id 413805 IXO1104 RS08140 WP 011258418.1   AFGEVGLSGEIRPVPNGEDRLKEAATHGFKRAIVPRANAPKTTSIKGMEIIAVERLRQALEVAAD.   463
NTDB id 125 BSU 00870 NP 387968.1               FIGEVGLTGEVRRVSRIEQRVKEAAKLGFKRMIIPAANLDGWTKPKGIEVIGVANVAEALRTSLGG   458
NTDB id 509 SM12261 RS00130 WP 078228442.1      FVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITPPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 279 KZH43 RS00140 WP 074017595.1        FVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 238 SPD RS00140 WP 074017595.1          FVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 204 SPR RS00140 WP 074017595.1          FVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 169 SP RS00155 WP 074017595.1           FVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA.   453
NTDB id 537 SMSK321 RS07120 WP 080550752.1      FVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITPPMEIQVIGVTTIQEVLKKVFA.   453
consensus                                       **!!*!!*!!*!*!*!***!*!**!!!**!!*****!*******!  ******!*!******!*****
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X non conserved

X similar

X $\geq$ 50% conserved