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logo
NTDB id 406673 GJB62 RS13115 WP 114081484.1  MAKPKTFFTCNECGAESPQWFGKCPACGTYNSLEEQISIQSSVDVPSRGGVSSWQSAQGNGKSHNKPAKARASLTFDQIT   80
NTDB id 125 BSU 00870 NP 387968.1            MAKTKSKFICQSCGYESPKWMGKCPGCGAWNTMVEEMIKKAPANRR....A....AFSHSVQTVQKP......SPITSIE   66
NTDB id 537 SMSK321 RS07120 WP 080550752.1   MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR....V....SLTGE...KTKP......MKLAEVT   63
NTDB id 509 SM12261 RS00130 WP 078228442.1   MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR....V....SLTGE...KTKP......MKLAEVT   63
NTDB id 279 KZH43 RS00140 WP 074017595.1     MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR....V....SLTGE...KTKP......MKLAEVT   63
NTDB id 238 SPD RS00140 WP 074017595.1       MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR....V....SLTGE...KTKP......MKLAEVT   63
NTDB id 204 SPR RS00140 WP 074017595.1       MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR....V....SLTGE...KTKP......MKLAEVT   63
NTDB id 169 SP RS00155 WP 074017595.1        MAKKKATFVCQNCGYNSPKYLGRCPNCGSWSSFVEEVEVAEVKNAR....V....SLTGE...KTKP......MKLAEVT   63
consensus                                    !!!*!**!*!**!!**!!***!*!!*!!******!**********    *    *****   **!!       *******

logo
NTDB id 406673 GJB62 RS13115 WP 114081484.1  DRQIARWESGYGELDRVLGGGVVPGSMVLIGGDPGIGKSTLLLQVSNQLAQK.YRILYVTGEESGQQVKLRASRLGVSKS  159
NTDB id 125 BSU 00870 NP 387968.1            TSEEPRVKTQLGEFNRVLGGGVVKGSLVLIGGDPGIGKSTLLLQVSAQLSGSSNSVLYISGEESVKQTKLRADRLGINN.  145
NTDB id 537 SMSK321 RS07120 WP 080550752.1   SINVNRTKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDID.  141
NTDB id 509 SM12261 RS00130 WP 078228442.1   SINVNRTKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDID.  141
NTDB id 279 KZH43 RS00140 WP 074017595.1     SINVNRTKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDID.  141
NTDB id 238 SPD RS00140 WP 074017595.1       SINVNRTKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDID.  141
NTDB id 204 SPR RS00140 WP 074017595.1       SINVNRTKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDID.  141
NTDB id 169 SP RS00155 WP 074017595.1        SINVNRTKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQV.GTVLYVSGEESAQQIKLRAERLGDID.  141
consensus                                    *****!******!**!!!!!!!!!*!!*!!!!!!!!!!!!!!!!!!!!*!!*** ***!!**!!!!**!*!!!!*!!!***

logo
NTDB id 406673 GJB62 RS13115 WP 114081484.1  LSVVNEENVKVVVDPTLPIDPDSIGADLYVLPETDLEEILREIDSLKPNVAVIDSIQTVFFPALTSAPGSVAQVRECTAA  239
NTDB id 125 BSU 00870 NP 387968.1            ........................PSLHVLSETDMEYISSAIQEMNPSFVVVDSIQTVYQSDITSAPGSVSQVRECTAE  200
NTDB id 537 SMSK321 RS07120 WP 080550752.1   ........................SEFYLYAETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAE  196
NTDB id 509 SM12261 RS00130 WP 078228442.1   ........................SEFYLYAETNMQSVRTEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAE  196
NTDB id 279 KZH43 RS00140 WP 074017595.1     ........................SEFYLYAETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAE  196
NTDB id 238 SPD RS00140 WP 074017595.1       ........................SEFYLYAETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAE  196
NTDB id 204 SPR RS00140 WP 074017595.1       ........................SEFYLYAETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAE  196
NTDB id 169 SP RS00155 WP 074017595.1        ........................SEFYLYAETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAE  196
consensus                                                             *******!!*************!*****!!!!!***********!!!*!!!!*!!*

logo
NTDB id 406673 GJB62 RS13115 WP 114081484.1  LMKVAKHEDVTMLIVGHVTKEGAIAGPKVLEHLVDTVLYFEGDRFASHRLLRTVKNRFGATHEIGIFEMVAEGLREVSNP  319
NTDB id 125 BSU 00870 NP 387968.1            LMKIAKTKGIPIFIVGHVTKEGSIAGPRLLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEMGIFEMREEGLTEVLNP  280
NTDB id 537 SMSK321 RS07120 WP 080550752.1   LMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNP  276
NTDB id 509 SM12261 RS00130 WP 078228442.1   LMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNP  276
NTDB id 279 KZH43 RS00140 WP 074017595.1     LMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNP  276
NTDB id 238 SPD RS00140 WP 074017595.1       LMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNP  276
NTDB id 204 SPR RS00140 WP 074017595.1       LMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNP  276
NTDB id 169 SP RS00155 WP 074017595.1        LMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNP  276
consensus                                    !!**!!*******!!!!!!!!!!**!!!**!!!*!!!!!!!!!!*!****!*!!*!!!!!!*!*!*!!!!!***!!*!!*!!
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logo
NTDB id 406673 GJB62 RS13115 WP 114081484.1   SELFLGNRDDPAPGTAIVVACEGTRPIVVELQALVSPTSYPSPRRAGTGVDYNRLVQILAVLEKRVGIPMSKLDSYVASA   399
NTDB id 125 BSU 00870 NP 387968.1             SEIFLEERSAGSAGSSITASMEGTRPILVEIQALISPTSFGNPRRMATGIDHNRVSLLMAVLEKRVGLLLQNQDAYLKVA   360
NTDB id 537 SMSK321 RS07120 WP 080550752.1    SQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSA   356
NTDB id 509 SM12261 RS00130 WP 078228442.1    SQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSA   356
NTDB id 279 KZH43 RS00140 WP 074017595.1      SQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSA   356
NTDB id 238 SPD RS00140 WP 074017595.1        SQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSA   356
NTDB id 204 SPR RS00140 WP 074017595.1        SQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSA   356
NTDB id 169 SP RS00155 WP 074017595.1         SQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSA   356
consensus                                     !**!!**!*****!**!****!!!!!!**!*!!!**!!******!**!!*!*!!*****!!!!!!*!******!*!***!

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NTDB id 406673 GJB62 RS13115 WP 114081484.1   GGLNVEEPAVDLGIAIAIVASFRDRIVDPGTVLIGEVGLGGQVRSVSQMELRLKEAAKLGFKRAIVPKGTKFPD...LNI   476
NTDB id 125 BSU 00870 NP 387968.1             GGVKLDEPAIDLAIVISIASSFRDTPPNPADCFIGEVGLTGEVRRVSRIEQRVKEAAKLGFKRMIIPAANLDGWTKPKGI   440
NTDB id 537 SMSK321 RS07120 WP 080550752.1    GGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITPPMEI   436
NTDB id 509 SM12261 RS00130 WP 078228442.1    GGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITPPKEI   436
NTDB id 279 KZH43 RS00140 WP 074017595.1      GGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEI   436
NTDB id 238 SPD RS00140 WP 074017595.1        GGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEI   436
NTDB id 204 SPR RS00140 WP 074017595.1        GGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEI   436
NTDB id 169 SP RS00155 WP 074017595.1         GGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEI   436
consensus                                     !!****!!!*!!*****!**!**!****!*****!!*!!*!**!*!***!*!**!!!!!!!*****!********  ***!

logo
NTDB id 406673 GJB62 RS13115 WP 114081484.1   EILPVSKVIDAIIAAIPHQELTADDLEPDEDE   508
NTDB id 125 BSU 00870 NP 387968.1             EVIGVANVAEALRTSLGG..............   458
NTDB id 537 SMSK321 RS07120 WP 080550752.1    QVIGVTTIQEVLKKVFA...............   453
NTDB id 509 SM12261 RS00130 WP 078228442.1    QVIGVTTIQEVLKKVFA...............   453
NTDB id 279 KZH43 RS00140 WP 074017595.1      QVIGVTTIQEVLKKVFA...............   453
NTDB id 238 SPD RS00140 WP 074017595.1        QVIGVTTIQEVLKKVFA...............   453
NTDB id 204 SPR RS00140 WP 074017595.1        QVIGVTTIQEVLKKVFA...............   453
NTDB id 169 SP RS00155 WP 074017595.1         QVIGVTTIQEVLKKVFA...............   453
consensus                                     ****!************
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X non conserved

X similar

X $\geq$ 50% conserved