```
logo
                                                  MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFHTLKGSGRMIGAKSSA
NTDB id 1278 LPP RS13600 WP 011947563.1           ..................................................................................    0
NTDB id 1262 GC085 RS13310 WP 011947563.1         ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1            ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1            ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1           ..................................................................................    0
NTDB id 413 AAK55817.1 141..845( )                ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1         MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFHTLKGSGRMIGAKSSA   80
NTDB id 66935 GM3708 RS15755 WP 066348924.1       ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1           ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1         ..................................................................................    0
consensus
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logo
                                                  ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQQSLEPALEELLQLS
NTDB id 1278 LPP RS13600 WP 011947563.1           ..................................................................................    0
NTDB id 1262 GC085 RS13310 WP 011947563.1         ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1            ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1            ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1           ..................................................................................    0
NTDB id 413 AAK55817.1 141..845( )                ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1         ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQQSLEPALEELLQLS  160
NTDB id 66935 GM3708 RS15755 WP 066348924.1       ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1           ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1         ..................................................................................    0
consensus
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logo
                                                  HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETLTLFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR
NTDB id 1278 LPP RS13600 WP 011947563.1           ..................................................................................    0
NTDB id 1262 GC085 RS13310 WP 011947563.1         ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1            ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1            ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1           ..................................................................................    0
NTDB id 413 AAK55817.1 141..845( )                ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1         HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETLTLFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR  240
NTDB id 66935 GM3708 RS15755 WP 066348924.1       ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1           ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1         ..................................................................................    0
consensus
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logo
                                                GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ
NTDB id 1278 LPP RS13600 WP 011947563.1         ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1       ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1          ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1          ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1         ..................................................................................    0
NTDB id 413 AAK55817.1 141..845( )              ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1       GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ  320
NTDB id 66935 GM3708 RS15755 WP 066348924.1     ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1         ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1       ..................................................................................    0
consensus


logo
                                                HGDRTDPLMPSHGLVSQLLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV
NTDB id 1278 LPP RS13600 WP 011947563.1         ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1       ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1          ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1          ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1         ..................................................................................    0
NTDB id 413 AAK55817.1 141..845( )              ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1       HGDRTDPLMPSHGLVSQLLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV  400
NTDB id 66935 GM3708 RS15755 WP 066348924.1     ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1         ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1       ..................................................................................    0
consensus


logo
                                                LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSILEELKLYTQYTPDISNDLPQQDSTSFEPIYNIEP
                                                                                                                                MTS
NTDB id 1278 LPP RS13600 WP 011947563.1         ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1       ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1          ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1          ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1         ..................................................................................MTS    3
NTDB id 413 AAK55817.1 141..845( )              ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1       LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSILEELKLYTQYTPDISNDLPQQDSTSFEPIYNIEP  480
NTDB id 66935 GM3708 RS15755 WP 066348924.1     ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1         ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1       ..................................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      DPN.............................................................PAQAFENWFEEEEGDDAFTSLI    28
NTDB id 413 AAK55817.1 141..845( )           ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLEGIDTDLNIWVGEQENFAALNNLM   560
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..................................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      AGE.............................................................................    31
NTDB id 413 AAK55817.1 141..845( )           ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    RYLHTLKGGANMVQATYLGLIAHELESIYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA   640
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..................................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      ETNSGIEELDFGDLFEGEPTVIQGEGFGS.........................PSSGEEDPPVRMTLDFNSPEAELD    84
NTDB id 413 AAK55817.1 141..845( )           ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    GQNSNFQPLPVVEAFDAESEVFSEQKVISEIIIDEIPVELEPALAELETHHDQVFDTAVTELATPVEMITTVTSQENEVA   720
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..................................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..........................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..........................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..........................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..........................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      ..........ALFTDEDAPTTAIDPFESSSWLEIDQMMEADPLASIPETNAPAYQTAGGLDDNDLAELQDLLGVGDVEP  153
NTDB id 413 AAK55817.1 141..845( )           ..........................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    ANEQDIEAVVEQTFLEEATELLEMAESLLKQWFEQRTNR......S..................ILL.............  763
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..........................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..........................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..........................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..........................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..........................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..........................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..........................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      AITNPGLHSFAGADRVTPLTNEVLL.FA........AIDDLDGLINAPVLDEEFSF..........TELETLIDTPAPKS  214
NTDB id 413 AAK55817.1 141..845( )           ..........................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    .QLQRAVHSLKGGARMVGLEAVQAIAYQLENAFEQFALHHFNSNIYDHLLESAIAWLKDAIFNHNYQHFDGLQQSLENIQ  842
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..........................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..........................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..........................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..........................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..........................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..........................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..........................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      FATISHPFRLPVAMEEDEDEFKDLEALLEQADSSLGGGIAGMGGARLPARP...RQVKSRSFEQTMRVPIKQLDNLSNLI  291
NTDB id 413 AAK55817.1 141..845( )           ..........................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    F..FETTIQIPTKLTRA.DLFSS.EP........VMTFIQGDGTEPPPMMGAWEQTERLDQNNEMIRVSADLIEKMIDLS  910
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..........................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..........................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..........................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      GELVVKRNRLEQDQERLRQFLDNLLNQAQNLSDVGGRMQDLYERTLLEGALLASRSTNSRHHSSKTTYPDARITASSSST  371
NTDB id 413 AAK55817.1 141..845( )           ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    GENSINRSRIEMDLSQFSHTLVEMELAIQRLADQLRRMEGELETQI.........................IAKHGIEH  964
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..................................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      MNDQPLDALEMDRFTGFHLLSQEMIELIVRVRESASDIQYLVDETDQVARTLRQVTTQLQEGMTKSRMVPFTQTADRLPR  451
NTDB id 413 AAK55817.1 141..845( )           ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    SRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLSDKIRDTESLLLQQSRIQAEIQEGLMRTRLVPFSRLLPRLQR  1044
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..................................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1      ..................................................................................    0
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1       ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1       ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1      AIREVSMKLNKKVNLEVEGGDVLIDKMILEHLYNPMTHLVNNAITHGIETPAERQKLGKSPEGHLAVRAFLQGNQTLITV  531
NTDB id 413 AAK55817.1 141..845( )           ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1    IVRQTSTALNRPAELFVNNTEGELDRNILERLVTPLEHMLRNAIDHGLEDRAQRQQANKPETGRIELNIQRQGTDVVVVF  1124
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1      ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..................................................................................    0
consensus
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logo
                                                  SDDGAGIDVEKVRQKAVEKGLISRMEAQSLSQSEVYDLLFHAGFSTKDTADDFAGRGVGLDVVRTSLIDIRGAINIESTV
NTDB id 1278 LPP RS13600 WP 011947563.1           ..................................................................................    0
NTDB id 1262 GC085 RS13310 WP 011947563.1         ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1            ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1            ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1           SDDGAGINTEMVKQKAVEKGLISRMEAQSLSQSEVYDLLFHAGFSTKDTADDFAGRGVGLDVVRTSLIDIRGAINIESTV  611
NTDB id 413 AAK55817.1 141..845( )                ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1         SDDGQGIDVEKVRQKALLAGLIKP..EQDLEQQDILQLIFHPGLSTAEQVTQISGRGVGLDVVQSDIKSLGGHVSVESVY 1202
NTDB id 66935 GM3708 RS15755 WP 066348924.1       ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1           ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1         ..................................................................................    0
consensus
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logo
                                                  GKGTTFTIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYEN.....KRYPLRYLSEFVG
NTDB id 1278 LPP RS13600 WP 011947563.1           ..................................................................................    0
NTDB id 1262 GC085 RS13310 WP 011947563.1         ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1            ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1            ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1           GKGTTFTIRLPLTLSICKALCCLSDRARIAFPMDGVEDTRDYLPKDIVTD.EDGQKCVKYGKEALLLPLYPLKDLLNYNR  690
NTDB id 413 AAK55817.1 141..845( )                ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1         GQGTTFTIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYEN.....KRYPLRYLSEFVG 1277
NTDB id 66935 GM3708 RS15755 WP 066348924.1       ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1           ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1         ..................................................................................    0
consensus
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logo
                                                  NQPIPRLNG...VMYSLPVLMIKANNGQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQNIA
NTDB id 1278 LPP RS13600 WP 011947563.1           ..................................................................................    0
NTDB id 1262 GC085 RS13310 WP 011947563.1         ..................................................................................    0
NTDB id 362 SMU RS05200 WP 002262214.1            ..................................................................................    0
NTDB id 372 SMU RS05280 WP 002262198.1            ..................................................................................    0
NTDB id 1419 SGL RS12550 WP 010873252.1           QLSRGSVYGGKQEEDVVRVIIARGSSGNLLALQIDQVLGEE.EIVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELI  769
NTDB id 413 AAK55817.1 141..845( )                ..................................................................................    0
NTDB id 1046 HON27 RS03130 WP 168726941.1         NQPIPRLNG...VMYSLPVLMIKANNGQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQNIA 1354
NTDB id 66935 GM3708 RS15755 WP 066348924.1       ..................................................................................    0
NTDB id 1417 SGL RS04200 WP 014407071.1           ..................................................................................    0
NTDB id 1047 HON27 RS03110 WP 000389061.1         ..................................................................................    0
consensus
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1     .............................MIKVLIVDDHALVRMGIRRLLEDMSDVDVVADAESGEQALAYVKTHS.PD   49
NTDB id 1262 GCO85 RS13310 WP 011947563.1   .............................MIKVLIVDDHALVRMGIRRLLEDMSDVDVVADAESGEQALAYVKTHS.PD   49
NTDB id 362 SMU RS05200 WP 002262214.1      .............................MIKLLLVEDDLSLSNSIFDFLD..DFADVMQVFD.GEEGLYEAESGV.YD   46
NTDB id 372 SMU RS05280 WP 002262198.1      ........................MNYKEKKILILDDNPEILEMVQESLNI.AGFNNLTGVQSKKEALEQLGKRS.FD   52
NTDB id 1419 SGL RS12550 WP 010873252.1     EIAQGRLRT.DSSGGLWRKTLTPTVNEVHMDPTVLIVDDSITVRELLSLSFKK.AGFRVEQARD.GQEAWDQLKSGLPCD  846
NTDB id 413 AAK55817.1 141..845( )          .............................MKKILIVDDEKPISDIIKFNMTK.EGYEVVTAFN.GREALEQFEAEQ.PD   47
NTDB id 1046 HON27 RS03130 WP 168726941.1   RQIQSTQRHKQLSEAVY......RQRESDERRLIMIVDDSVTVRKVTSRLLER.QGYDVVTAKD.GVDAIEQLENIK.PD  1425
NTDB id 66935 GM3708 RS15755 WP 066348924.1 .............................MSTVLLVEDSLSTRKMISELLIK.QGLKVEIAVD.GVEALEILPTIS.PD   47
NTDB id 1417 SGL RS04200 WP 014407071.1     .............................MNAVLLVEDSSSQREMISGILKD.HGWQVTIACD.GVEALEKLQNFS.PD   47
NTDB id 1047 HON27 RS03110 WP 000389061.1   ........................MEDAFQNLKVMVIDDSKTIRRTAETLLQR.EGCEVITAVD.GFEALSKIAEAN.PD   53
consensus                                                           * ******!* *** **  ** *  ****** * * * **** * * * *!
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1     VVLLDMKMPGIDGWEVTRRLKKT..NPNIKVIAVTAICSDPLPTRVLQLGAMGYLTKESGAEEMAAAIRKVAKGEKYLSA  127
NTDB id 1262 GCO85 RS13310 WP 011947563.1   VVLLDMKMPGIDGWEVTRRLKKT..NPNIKVIAVTAICSDPLPTRVLQLGAMGYLTKESGAEEMAAAIRKVAKGEKYLSA  127
NTDB id 362 SMU RS05200 WP 002262214.1      LILLDLMLPEKNGFQVLKELREK..GITTPVLIMTAKEGLDDKGHGFELGADDYLTKPFYLEELKMRIQALLKRSGKFNE  124
NTDB id 372 SMU RS05280 WP 002262198.1      LAILDIMLPDGSGFEVLREIRK...TSTIPVLFLSAVSDIEKQYQGFELGADDYIVKPFRPKELELRILSILKRAYPEKD  129
NTDB id 1419 SGL RS12550 WP 010873252.1     LVFCDIEMPRKNGLELLSELQADEELSSIPVALLTSRGADRHRKVAAKLGATGYFTKPYTEKDILDAANRMLNGEVLLPG  926
NTDB id 413 AAK55817.1 141..845( )          IIILDLMLPEIDGLEVAKTIRK...TSSVPILMLSAKDSEFDKVIGLELGADDYVTKPFSNRELQARVKALLRRSQPMPV  124
NTDB id 1046 HON27 RS03130 WP 168726941.1   LMLLDIEMPRMDGFEVLNLVRHHDMHQYMPIIMITSRTGEKHRERAFSLGVSQYMGKPFQEEELLENIDALLVAFESEVK 1505
NTDB id 66935 GM3708 RS15755 WP 066348924.1 LVVLDIVMPKMNGYEVCRNIKSNPNTKNVPVLICSSKGEDFDRYWGMKQGADAYIAKPFQPKELIATIRQLLKG.....  121
NTDB id 1417 SGL RS04200 WP 014407071.1     LVVLDIVMPRMNGYEVCRRIKSDPKTKNVPVIMCSSKGEEFDRFWGMRQGADAYIAKPFQPMELVGTIKQLLRN.....  121
NTDB id 1047 HON27 RS03110 WP 000389061.1   IVFVDIMMPRLDGYQTCALIKNSQNYQNIPVIMLSSKDGLFDQAKGRVVGSDEYLTKPFSKDELLNAIRNHVSS.....  127
consensus                                   ****!***!***!***  *  **       ********  *   *  **   **  *!***!**!**   ***** **  ****
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logo

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NTDB id 1278 LPP RS13600 WP 011947563.1     EIAQKMAINSLQEPQDSPF...DLLSEREM..........QVMLMITSGMNVQDIAD...RL.....FLS.....SK  178
NTDB id 1262 GCO85 RS13310 WP 011947563.1   EIAQKMAINSLQEPQDSPF...DLLSEREM..........QVMLMITSGMNVQDIAD...RL.....FLS.....SK  178
NTDB id 362 SMU RS05200 WP 002262214.1      NNL.................TYGELTVDTATNT.................TMVNGKEVELLGKEFDLLVYFLQNQNVILPK  171
NTDB id 372 SMU RS05280 WP 002262198.1      DTLI...LPICQVNFSQALITKGEL.........................EIQLTAKEYSILKVLYNNQNRIVTF  176
NTDB id 1419 SGL RS12550 WP 010873252.1     STRK...TNSILSRFK...KARGNFSEEAPTIVRSNPGTLRSTVLIIDDSVMVREMLSMTFKK..ADYHTETAR.....  992
NTDB id 413 AAK55817.1 141..845( )          DGQE...ADSKPQPIQ...I..GDLEIVPDAYVAKKYG.............EELDLTHREFELLYHLASHTGQVITR  180
NTDB id 1046 HON27 RS03130 WP 168726941.1   S.....................................................................................  1506
NTDB id 66935 GM3708 RS15755 WP 066348924.1 .....................................................................................  121
NTDB id 1417 SGL RS04200 WP 014407071.1     .....................................................................................  121
NTDB id 1047 HON27 RS03110 WP 000389061.1   .....................................................................................  127
consensus                                          *           *                                  *
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NTDB id 1278 LPP RS13600 WP 011947563.1      TINGYRYRMFEKLGIKNDVELTY........LAMKHRIIEHPNDLSQDD.............................   219
NTDB id 1262 GCO85 RS13310 WP 011947563.1    TINGYRYRMFEKLGIKNDVELTY........LAMKHRIIEHPNDLSQDD.............................   219
NTDB id 362 SMU RS05200 WP 002262214.1       SQIFDRIWGFDSDTT...ISVVEVYV.....SKIRKKLKDTTF....GKNLQTLRS.............VGYILKDAN..   224
NTDB id 372 SMU RS05280 WP 002262198.1       DQLLEKVWGLQYQGYENTMMA........HIRKIRQKIEANPS...KPECLLTVKG.............LGYKLKVS...   229
NTDB id 1419 SGL RS12550 WP 010873252.1      ..DGQDAWEKLKSGLPCDLILCDIEMPRMNGLELLERIQEDPNLSRIPVAMITSRGAQKMQRMAAEKGAKGYFVKPYIEE  1070
NTDB id 413 AAK55817.1 141..845( )           EHLLETVWGYDYFG...DVRTVDVTV.....RRLREKIEDTPS...RPEYILTRRG.............VGYYMRNNA*.   234
NTDB id 1046 HON27 RS03130 WP 168726941.1    ..............................................................................  1506
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ..............................................................................   121
NTDB id 1417 SGL RS04200 WP 014407071.1      ..............................................................................   121
NTDB id 1047 HON27 RS03110 WP 000389061.1    ..............................................................................   127
consensus                                                 *     *               ** ** * *
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NTDB id 1278 LPP RS13600 WP 011947563.1      ........................   219
NTDB id 1262 GCO85 RS13310 WP 011947563.1    ........................   219
NTDB id 362 SMU RS05200 WP 002262214.1       ........................   224
NTDB id 372 SMU RS05280 WP 002262198.1       ........................   229
NTDB id 1419 SGL RS12550 WP 010873252.1      TLLEASQRLIRGEVLLDLAALSADE  1095
NTDB id 413 AAK55817.1 141..845( )           ........................   234
NTDB id 1046 HON27 RS03130 WP 168726941.1    ........................  1506
NTDB id 66935 GM3708 RS15755 WP 066348924.1  ........................   121
NTDB id 1417 SGL RS04200 WP 014407071.1      ........................   121
NTDB id 1047 HON27 RS03110 WP 000389061.1    ........................   127
consensus
```

X non conserved
X similar
X ≥ 50% conserved