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logo

NTDB id 615 LCA RS02545 WP 011374200.1        .MGQQVIACGRQFTAAQLADTQNNNYS....LPQIKRRPAFLRVKHRLVCQRCQQ.VVPPQTCLPDGRHYCAQCLLFGRL   74
NTDB id 593 KW2 RS05130 WP 021037147.1        MNLILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNVKLPIGAFFCPTCLELGRV   80
NTDB id 315487 D5R92 RS03070 WP 003101738.1   .MESLELYYGRIFTSKQLSEVEK........VKAEKIDSMFK.IGRHWYCQRCRM.KIDLNNKLPSGKYYCRECLIFGRN   69
NTDB id 277 KZH43 RS10090 WP 000867601.1      .MKVNLDYLGRLFTENELTEEER........QLAEKLPAMRK.EKGKLFCQRCNS.TILEEWYLPIGAYYCRECLLMKRV   69
NTDB id 236 SPD RS10765 WP 000867601.1        .MKVNLDYLGRLFTENELTEEER........QLAEKLPAMRK.EKGKLFCQRCNS.TILEEWYLPIGAYYCRECLLMKRV   69
NTDB id 202 SPR RS10250 WP 000867601.1        .MKVNLDYLGRLFTENELTEEER........QLAEKLPAMRK.EKGKLFCQRCNS.TILEEWYLPIGAYYCRECLLMKRV   69
NTDB id 167 SP RS11275 WP 000867616.1         .MKVNLDYLGRLFTENELTEEER........QLAEKLPAMRK.EKGKLFCQRCNS.TILEEWYLPIGAYYCRECLLMKRV   69
NTDB id 507 SM12261 RS09240 WP 000867722.1    .MKVNPNYLGRLFTENELTEEER........QLAEKLPAMRK.EKGKLFCQRCNS.TILEEWYLPIGTYYCRECLLMKRV   69
NTDB id 535 SMSK321 RS10515 WP 000867726.1    .MKVNPNYLGRLFTENELTKEER........QLAEKLPAMRK.EKGKLFCQRCDS.AILDEWYLPIGAYYCRECLLMKRV   69
consensus                                      ***** **!*************        ****!****** ******!*!!** *******!!*!***!**!!***!*

logo

NTDB id 615 LCA RS02545 WP 011374200.1        VEGDWLYTVPECHLFENNIPKLTWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLFQGILVALQKGQRVCLA   154
NTDB id 593 KW2 RS05130 WP 021037147.1        RSDEYFYHLPQQDFPEK..TYLRWTGKLTENQEKISDALCQQITNNQKLLVQAVTGAGKTEMIYQLIEQILSHGGSVGLA   158
NTDB id 315487 D5R92 RS03070 WP 003101738.1   ESDDFLYFFDSLPFEAG..TYLKWQGQLTQYQEAVSQQLLKHFKNNQRSLVHAVTGAGKTEMIYQLIAYVLEKGGWLCLA   147
NTDB id 277 KZH43 RS10090 WP 000867601.1      RSDQTLYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 236 SPD RS10765 WP 000867601.1        RSDQTLYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 202 SPR RS10250 WP 000867601.1        RSDQTLYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 167 SP RS11275 WP 000867616.1         RSDQTLYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQVVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 507 SM12261 RS09240 WP 000867722.1    RSDQSLYYFPQEDFPKQ..DVLKWRGQLTPFQDKVSQGLLQAVDKQEPSLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 535 SMSK321 RS10515 WP 000867726.1    RSDQVLYYFPQEDFAKQ..DILKWRGQLTPFQEKVSEGLIQAVDKQEPILVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
consensus                                     ******!**********  **!*!*!*!!**!*******************!!!!!!!!!!**!********!****!!

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NTDB id 615 LCA RS02545 WP 011374200.1        APRVAVCLELYPRLQAAFATTSIMLMHGEQTEPYRYTQLVICTTHQLLKFYHAFDTVIVDEVDAFPFVDNPVLATAVEQA   234
NTDB id 593 KW2 RS05130 WP 021037147.1        SPRIDVCIELHQRLSRDFTCQ.IPLLYHE.GDSYFRSPLVVMTSHQLLRFKEAFDLLIIDEVDAFPFRDNDMLYFALENA   236
NTDB id 315487 D5R92 RS03070 WP 003101738.1   CPRVDVCIELEKRISRDFSCS.VTLMHAH.SESYQRNPIIIATTHQLLKFYRAFDLIIIDEVDAFPFVNNKMLNQALENA   225
NTDB id 277 KZH43 RS10090 WP 000867601.1      SPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS   225
NTDB id 236 SPD RS10765 WP 000867601.1        SPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS   225
NTDB id 202 SPR RS10250 WP 000867601.1        SPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS   225
NTDB id 167 SP RS11275 WP 000867616.1         SPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS   225
NTDB id 507 SM12261 RS09240 WP 000867722.1    SPRIDVCLELYKRLQKDFACE.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS   225
NTDB id 535 SMSK321 RS10515 WP 000867726.1    SPRIDVCLELYKRLQDDFACE.ISLLYGE.SEPYFRTPLVVSTTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS   225
consensus                                     *!!**!!*!!**!** *!**  **!**** ***!********!*!!!!*!**!!!**!*!!!!!!!***!**!**!****

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NTDB id 615 LCA RS02545 WP 011374200.1        CKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLERDCQTY.LKTQQIL   313
NTDB id 593 KW2 RS05130 WP 021037147.1        KKINGTLLYLTATSTDKLDKQIKKHEIKRLFLPRRFHGHPLVIPMFFWKKTFYKK.............FIEQRKTGFPLL   303
NTDB id 315487 D5R92 RS03070 WP 003101738.1   LAPSGKIVYLTATSTKKLDKDVKNGRCQGITLARRFHNNPLVLPEFQLVLSLSEKLKRHKLPRNIKKQLKQQRLSKHPLL   305
NTDB id 277 KZH43 RS10090 WP 000867601.1      VKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLL   305
NTDB id 236 SPD RS10765 WP 000867601.1        VKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLL   305
NTDB id 202 SPR RS10250 WP 000867601.1        VKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLL   305
NTDB id 167 SP RS11275 WP 000867616.1         VKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLL   305
NTDB id 507 SM12261 RS09240 WP 000867722.1    VKENGLRIFLTATSTDELDRKVRIGELKRLSLPRRFHGNPLIIPKPVWLSDFNHCLEKSRLSPKLKSYIEKQRKTGYPLL   305
NTDB id 535 SMSK321 RS10515 WP 000867726.1    VKENGLRIFLTATSTDELDRKVRIGELKRLSLPRRFHGNPLIIPKPVWLSDFNRYLEKKCLSPKLKSYIEKQRKTGYPLL   305
consensus                                     *********!!!!*! ************** !**!!!***!**!************** ********************!
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NTDB id 615 LCA RS02545 WP 011374200.1        LFVPQVRLLQPVANRLSTLLPAVRIETLHANDPDQIKKITAFRAQQIQLMVTTTILERGVTFKNVAVLVLGAEHMVFNEA   393
NTDB id 593 KW2 RS05130 WP 021037147.1        IFVAEIDFGQDFAKNLQEKFPKEKMAFVASTTKSRKTIVEAFRKKQVSILITTSILERGVTFSSIDVFVINSEHPNFTKS   383
NTDB id 315487 D5R92 RS03070 WP 003101738.1   IFFPIIEDGQLFQDLLTTHFPDEQIAFVSSESEERAELIESFRNKEISILISTTILERGVTFPGVDVFVILANHRLYNAS   385
NTDB id 277 KZH43 RS10090 WP 000867601.1      IFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKS   385
NTDB id 236 SPD RS10765 WP 000867601.1        IFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKS   385
NTDB id 202 SPR RS10250 WP 000867601.1        IFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKS   385
NTDB id 167 SP RS11275 WP 000867616.1         IFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKS   385
NTDB id 507 SM12261 RS09240 WP 000867722.1    IFASEIKKGEQLKEIIQEQFPNEKIGFVSSITENRLEQVQAFRDRELTILISTTILERGVTFPCVDVFVVEANHRLFTKS   385
NTDB id 535 SMSK321 RS10515 WP 000867726.1    IFASEIKKGEQLKEILQKEFPHEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKS   385
consensus                                     *!******************!*******************!!*********!*!!!!!!!!****!*!****!******
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NTDB id 615 LCA RS02545 WP 011374200.1        VLVQIAGRAGRHKDYAQNPVHFYYQDYTRAIKGACRQIKTQNQRGRRLQSTV   445
NTDB id 593 KW2 RS05130 WP 021037147.1        ALIQMAGRVGRDSKRPTGLVSFFHSGKSLAMCQAQKEIKKMNRLGGF.....   430
NTDB id 315487 D5R92 RS03070 WP 003101738.1   SLIQIAGRVGRSIERPEGKLLFFHEGISVAMIKAKSEIIKMNKIAYG.....   432
NTDB id 277 KZH43 RS10090 WP 000867601.1      SLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 236 SPD RS10765 WP 000867601.1        SLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 202 SPR RS10250 WP 000867601.1        SLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 167 SP RS11275 WP 000867616.1         SLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 507 SM12261 RS09240 WP 000867722.1    SLIQIGGRVGRSMDRPTGDLLFFHDGLNTSIKKAIKEIQQMNKEAGL.....   432
NTDB id 535 SMSK321 RS10515 WP 000867726.1    SLIQIGGRVGRSMDRPTGDLLFFHDGLNTSIKKAIKEIQQMNKEAGL.....   432
consensus                                     *!*!**!!*!!**********!****** ****!***!* *!*****
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X non conserved

X similar

X $\geq$ 50% conserved