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logo
NTDB id 615 LCA RS02545 WP 011374200.1      MG.QQVIACGRQFTAAQLADTQNN....NYSLPQIKRRPAFLRVKHRLVCQRCQQVVP.PQTCLPDGRHYCAQCLLFGRL   74
NTDB id 593 KW2 RS05130 WP 021037147.1      MNLILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNVKLPIGAFFCPTCLELGRV   80
NTDB id 1139410 DQM69 RS08825 WP 019771102.1 MK.DMKNYYGWQLTADQVP......D...DLRDKASVLPATIKKSGKYYCARCNHLLL.PEWTLPDGSSYCRNCIVFGRL   69
NTDB id 277 KZH43 RS10090 WP 000867601.1    MK.VNLDYLGRLFTENELT......E...EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGAYYCRECLLMKRV   69
NTDB id 236 SPD RS10765 WP 000867601.1      MK.VNLDYLGRLFTENELT......E...EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGAYYCRECLLMKRV   69
NTDB id 202 SPR RS10250 WP 000867601.1      MK.VNLDYLGRLFTENELT......E...EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGAYYCRECLLMKRV   69
NTDB id 167 SP RS11275 WP 000867616.1       MK.VNLDYLGRLFTENELT......E...EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGAYYCRECLLMKRV   69
NTDB id 535 SMSK321 RS10515 WP 000867726.1  MK.VNPNYLGRLFTENELT......K...EERQLAEKLPAMRKEKGKLFCQRCDSAIL.DEWYLPIGAYYCRECLLMKRV   69
NTDB id 507 SM12261 RS09240 WP 000867722.1  MK.VNPNYLGRLFTENELT......E...EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGTYYCRECLLMKRV   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 1139410 DQM69 RS08825 WP 019771102.1 TTLDHLYYFEQKPFTKG..AYLRWQGQLTPYQKEVSDILLEAVEKRENILVHAVTGSGKTEMIYRALANRLAKGKVVALV  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 535 SMSK321 RS10515 WP 000867726.1  RSDQVLYYFPQEDFAKQ..DILKWRGQLTPFQEKVSEGLIQAVDKQEPILVHAVTGAGKTEMIYQVVAKVINAGGAVCLA  147
NTDB id 507 SM12261 RS09240 WP 000867722.1  RSDQSLYYFPQEDFPKQ..DVLKWRGQLTPFQDKVSQGLLQAVDKQEPSLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA  147
consensus                                   ******!**********  **!*!*!*!!**!*******************!!!!*!!!!!***********!**!*!*

logo
NTDB id 615 LCA RS02545 WP 011374200.1      APRVAVCLELYPRLQAAFATTSIMLMHGEQTEPYRYTQLVICTTHQLLKFYHAFDTVIVDEVDAFPFVDNPVLATAVEQA  234
NTDB id 593 KW2 RS05130 WP 021037147.1      SPRIDVCIELHQRLSRDFTCQIPLLY.H.EGDSYFRSPLVVMTSHQLLRFKEAFDLLIIDEVDAFPFRDNDMLYFALENA  236
NTDB id 1139410 DQM69 RS08825 WP 019771102.1 SPRIDVCRELYQRLSRDFSCPISLLY.A.NSEDYHRSPFLISTVHQLFKFRQAFDLIVIDEVDAFPFVDDQSLYHAVANA  225
NTDB id 277 KZH43 RS10090 WP 000867601.1    SPRIDVCLELYKRLQQDFSCGIALLH.G.ESEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 236 SPD RS10765 WP 000867601.1      SPRIDVCLELYKRLQQDFSCGIALLH.G.ESEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 202 SPR RS10250 WP 000867601.1      SPRIDVCLELYKRLQQDFSCGIALLH.G.ESEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 167 SP RS11275 WP 000867616.1       SPRIDVCLELYKRLQQDFSCGIALLH.G.ESEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 535 SMSK321 RS10515 WP 000867726.1  SPRIDVCLELYKRLQDDFACEISLLY.G.ESEPYFRTPLVVSTTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 507 SM12261 RS09240 WP 000867722.1  SPRIDVCLELYKRLQKDFACEIALLH.G.ESEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
consensus                                   *!!**!!*!!**!!* *!** ***!* * ****!********!*!!!**!**!!!****!!!!!!!**!***!**!****

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NTDB id 615 LCA RS02545 WP 011374200.1      CKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLERDCQTYLK.TQQIL  313
NTDB id 593 KW2 RS05130 WP 021037147.1      KKINGTLLYLTATSTDKLDKQIKKHEIKRLFLPRRFHGHPLVIPMFFWKKTFYKKF.............IEQRKTGFPLL  303
NTDB id 1139410 DQM69 RS08825 WP 019771102.1 LKPQGSKIFLTATSTDNLEKQVKKGQLREVHLARRFHANPLVSPSFVWLGDLDKKMTKGLIPVKLGQAIRQQRQTGFPLL  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 535 SMSK321 RS10515 WP 000867726.1  VKENGLRIFLTATSTDELDRKVRIGELKRLSLPRRFHGNPLIIPKPVWLSDFNRYLEKKCLSPKLKSYIEKQRKTGYPLL  305
NTDB id 507 SM12261 RS09240 WP 000867722.1  VKENGLRIFLTATSTDELDRKVRIGELKRLSLPRRFHGNPLIIPKPVWLSDFNHCLEKSRLSPKLKSYIEKQRKTGYPLL  305
consensus                                   *!*******!!!!*! ************** !**!!!***!**!************** ********************!
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logo

NTDB id 615 LCA RS02545 WP 011374200.1        LFVPQVRLLQPVANRLSTLLPAVRIETLHANDPDQIKKITAFRAQQIQLMVTTTILERGVTFKNVAVLVLGAEHMVFNEA   393
NTDB id 593 KW2 RS05130 WP 021037147.1        IFVAEIDFGQDFAKNLQEKFPKEKMAFVASTTKSRKTIVEAFRKKQVSILITTSILERGVTFSSIDVFVINSEHPNFTKS   383
NTDB id 1139410 DQM69 RS08825 WP 019771102.1  LFYPTIVEGEQFARLLQKYFPKEKIGFVSSRSQDRLELVQDFREGKLDILVSTTILERGVTFPKIDLFVLNAHHKLYTKS   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 535 SMSK321 RS10515 WP 000867726.1    IFASEIKKGEQLKEILQKEFPHEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKS   385
NTDB id 507 SM12261 RS09240 WP 000867722.1    IFASEIKKGEQLKEIIQEQFPNEKIGFVSSITENRLEQVQAFRDRELTILISTTILERGVTFPCVDVFVVEANHRLFTKS   385
consensus                                     *!*****************!*********************!!*********!*!!!!!!!******!****!******

logo

NTDB id 615 LCA RS02545 WP 011374200.1        VLVQIAGRAGRHKDYAQNPVHFYYQDYTRAIKGACRQIKTQNQRGRRLQSTV   445
NTDB id 593 KW2 RS05130 WP 021037147.1        ALIQMAGRVGRDSKRPTGLVSFFHSGKSLAMCQAQKEIKKMNRLGGF.....   430
NTDB id 1139410 DQM69 RS08825 WP 019771102.1  SLIQIAGRVGRSSKRPNGLLRFYHSGVTRAMRRALQDIKLMNKKGGF.....   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 535 SMSK321 RS10515 WP 000867726.1    SLIQIGGRVGRSMDRPTGDLLFFHDGLNTSIKKAIKEIQQMNKEAGL.....   432
NTDB id 507 SM12261 RS09240 WP 000867722.1    SLIQIGGRVGRSMDRPTGDLLFFHDGLNTSIKKAIKEIQQMNKEAGL.....   432
consensus                                     *!*!**!!*!!***********!****** ****!***!***!*****
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X non conserved

X similar

X $\geq$ 50% conserved