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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 293176 DK181 RS09110 WP 028798478.1   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        VEGDWLYTVPFCHLFENNIPKLTWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLFQGILVALQKGQRVCLA  154
NTDB id 593 KW2 RS05130 WP 021037147.1        RSDEYFYHLPQQDFPEK..TYLRWTGKLTENQEKISDALCQQITNNQKLLVQAVTGAGKTEMIYQLIEQILSHGGSVGLA  158
NTDB id 293176 DK181 RS09110 WP 028798478.1   TILDHLYYFEQKPFTKG..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 293176 DK181 RS09110 WP 028798478.1   SPRIDVCRELYQRLSRDFSCPISLLY.A.NSEDYHRSPLLISTVHQLFKFRQAFDLIVIDEVDAFPFVDDQSLYHAVANA  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                                     *!!**!!*!!**!!* *!** ***!* * ****!****!***!*!!!**!**!!!****!!!!!!!**!***!**!****

logo
NTDB id 615 LCA RS02545 WP 011374200.1        CKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLERDCQTYLK.TQQIL  313
NTDB id 593 KW2 RS05130 WP 021037147.1        KKINGTLLYLTATSTDKLDKQIKKHEIKRLFLPRRFHGHPLVIPMFFWKKTFYKKF.............IEQRKTGFPLL  303
NTDB id 293176 DK181 RS09110 WP 028798478.1   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
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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 293176 DK181 RS09110 WP 028798478.1   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                                     *!*****************!*******************!!*********!*!!!!!!!!******!****!******
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logo
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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 293176 DK181 RS09110 WP 028798478.1   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