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NTDB id 615 LCA RS02545 WP 011374200.1        MG.QQVIACGRQFTAAQLADTQN....NNYSLPQIKRRPAFLRVKHRLVCQRCQQVVP.PQTCLPDGRHYCAQCLLFGRL   74
NTDB id 593 KW2 RS05130 WP 021037147.1        MNLILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNVKLPIGAFFCPTCLELGRV   80
NTDB id 177441 A4H00 RS05770 WP 067088101.1   MT.DMTNYYGRLFTHHQLTE.........TERLQAKTIPSQ...TPHYTCFRCATLFE.EKHCLPNGALYCRECILLGRV   66
NTDB id 277 KZH43 RS10090 WP 000867601.1      MK.VNLDYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGAYYCRECLLMKRV   69
NTDB id 236 SPD RS10765 WP 000867601.1        MK.VNLDYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGAYYCRECLLMKRV   69
NTDB id 202 SPR RS10250 WP 000867601.1        MK.VNLDYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGAYYCRECLLMKRV   69
NTDB id 167 SP RS11275 WP 000867616.1         MK.VNLDYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGAYYCRECLLMKRV   69
NTDB id 507 SM12261 RS09240 WP 000867722.1    MK.VNPNYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTIL.EEWYLPIGTYYCRECLLMKRV   69
NTDB id 535 SMSK321 RS10515 WP 000867726.1    MK.VNPNYLGRLFTENELTK.........EERQLAEKLPAMRKEKGKLFCQRCDSAIL.DEWYLPIGAYYCRECLLMKRV   69
consensus                                     !* *** **!**********          ********************!*!!***** ****!!*!***!**!****!*
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NTDB id 615 LCA RS02545 WP 011374200.1        VEGDWLYTVPECHLFENNIPKLTWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLFQGILVALQKGQRVCLA  154
NTDB id 593 KW2 RS05130 WP 021037147.1        RSDEYFYHLPQQDFPEK..TYLRWTGKLTENQEKISDALCQQITNNQKLLVQAVTGAGKTEMIYQLIEQILSHGGSVGLA  158
NTDB id 177441 A4H00 RS05770 WP 067088101.1   RTDEDLYYFPQQPFPSQ..RSLKWEGELTTWQQEISDGLRQNFKERKATLVHAVTGAGKTEMIYQLVADVIDGGGAVCLA  144
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        SPRIDVCIELHQRLSRDFTCQI.PLLYHE.GDSYFRSPLVVMTSHQLLRFKEAFDLLIIDEVDAFPFRDNDMLYFALENA  236
NTDB id 177441 A4H00 RS05770 WP 067088101.1   SPRIDVCIELYKRLQKDFACPI.SLLHGT.SEPYFRTPLVIATTHQLLKFYRAFDLILIDEVDAFPYVDNPMLYRAVENA  222
NTDB id 277 KZH43 RS10090 WP 000867601.1      SPRIDVCLELYKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 236 SPD RS10765 WP 000867601.1        SPRIDVCLELYKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 202 SPR RS10250 WP 000867601.1        SPRIDVCLELYKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 167 SP RS11275 WP 000867616.1         SPRIDVCLELYKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 507 SM12261 RS09240 WP 000867722.1    SPRIDVCLELYKRLQKDFACEI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
NTDB id 535 SMSK321 RS10515 WP 000867726.1    SPRIDVCLELYKRLQDDFACEI.SLLYGE.SEPYFRTPLVVSTTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNS  225
consensus                                     *!!**!!*!!**!!* *!** * *!**** ***!****!!**!*!!!!*!**!!!****!!!!!!!**!!**!**!****
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NTDB id 615 LCA RS02545 WP 011374200.1        CKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLERDCQTYL.KTQQIL  313
NTDB id 593 KW2 RS05130 WP 021037147.1        KKINGTLLYLTATSTDKLDKQIKKHEIKRLFLPRRFHGHPLVIPMFFWKKTFYK.............KFIEQRKTGFPLL  303
NTDB id 177441 A4H00 RS05770 WP 067088101.1   VKADGVIMFLTATSTDELEKKVQSGTLHRLRLPRRFHGNPLVVPQKTWLSQFEAQLKKKKITPKLLSKIAEQRKTGYPLL  302
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 177441 A4H00 RS05770 WP 067088101.1   IFLPEIRMGQSFAQLLEKDFQDQGIGFVSSQTDNRLEIVEQFRRREIGILVTTTILERGVTFPCVDVFVVQANHALYTSS   382
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 177441 A4H00 RS05770 WP 067088101.1   SLIQIAGRVGRSMERPTGDLLFFHDGSNRAIEKAIREIRLMNKEAGYDSVPTVPASS   439
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