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logo

NTDB id 615 LCA RS02545 WP 011374200.1      .MGQQVIACGRQFTAAQLADTQN....NNYSLPQIKRRPAFLRVKHRLVCQRCQQVVPP.QTCLPDGRHYCAQCLLFGRL   74
NTDB id 593 KW2 RS05130 WP 021037147.1      MNLILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNVKLPIGAFFCPTCLELGRV   80
NTDB id 1127481 FGL12 RS03000 WP 012000102.1 .MLELQDCLGRIFTKEQLPT.........ELLKIAQRLSSVFEKKGELFCSRCHSQIDKERNLLPIGAYYCRECILLLGRV   70
NTDB id 277 KZH43 RS10090 WP 000867601.1    .MKVNLDYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTILEE.WYLPIGAYYCRECLLMKRV   69
NTDB id 236 SPD RS10765 WP 000867601.1      .MKVNLDYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTILEE.WYLPIGAYYCRECLLMKRV   69
NTDB id 202 SPR RS10250 WP 000867601.1      .MKVNLDYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTILEE.WYLPIGAYYCRECLLMKRV   69
NTDB id 167 SP RS11275 WP 000867616.1       .MKVNLDYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTILEE.WYLPIGAYYCRECLLMKRV   69
NTDB id 507 SM12261 RS09240 WP 000867722.1  .MKVNPNYLGRLFTENELTE.........EERQLAEKLPAMRKEKGKLFCQRCNSTILEE.WYLPIGTYYCRECLLMKRV   69
NTDB id 535 SMSK321 RS10515 WP 000867726.1  .MKVNPNYLGRLFTENELTK.........EERQLAEKLPAMRKEKGKLFCQRCDSAILDE.WYLPIGAYYCRECLLMKRV   69
consensus                                   ********!**********          ********************!*!!******* **!!*!***!**!****!*

logo

NTDB id 615 LCA RS02545 WP 011374200.1      VEGDWLYTVPECHLFENNIPKLTWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLFQGILVALQKGQRVCLA   154
NTDB id 593 KW2 RS05130 WP 021037147.1      RSDEYFYHLPQQDFPE..KTYLRWTGKLTENQEKISDALCQQITNNQKLLVQAVTGAGKTEMIYQLIEQILSHGGSVGLA   158
NTDB id 1127481 FGL12 RS03000 WP 012000102.1 RSDEDLYYFSQESFPI..ISSLKWLGQLTEYQERVSKGLLEGVQSKQDTLVHAVTGAGKTEMIYQVVAQVLDQGGAVCIA   148
NTDB id 277 KZH43 RS10090 WP 000867601.1    RSDQTLYYFPQEDFPK..QDVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 236 SPD RS10765 WP 000867601.1      RSDQTLYYFPQEDFPK..QDVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 202 SPR RS10250 WP 000867601.1      RSDQTLYYFPQEDFPK..QDVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 167 SP RS11275 WP 000867616.1       RSDQTLYYFPQEDFPK..QDVLKWRGQLTPFQEKVSEGLLQVVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 507 SM12261 RS09240 WP 000867722.1  RSDQSLYYFPQEDFPK..QDVLKWRGQLTPFQDKVSQGLLQAVDKQEPSLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 535 SMSK321 RS10515 WP 000867726.1  RSDQVLYYFPQEDFAK..QDILKWRGQLTPFQEKVSEGLIQAVDKQEPILVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
consensus                                   ******!*********  ***!*!*!*!!**!*********************!!!!!!!!!**!********!**!**!

logo

NTDB id 615 LCA RS02545 WP 011374200.1      APRVAVCLELYPRLQAAFATTSIMLMHGEQTEPYRYTQLVICTTHQLLKFYHAFDTVIVDEVDAFPFVDNPVLATAVEQA   234
NTDB id 593 KW2 RS05130 WP 021037147.1      SPRIDVCIELHQRLSRDFTCQ.IPLLYHE.GDSYFRSPLVVMTSHQLLRFKEAFDLLIIDEVDAFPFRDNDMLYFALENA   236
NTDB id 1127481 FGL12 RS03000 WP 012000102.1 SPRIDVCLELYRRLKGDFFCD.ISLLHGE.SDPYSRSPLVIATTHQLLKFYQAFDLLIVDEVDAFPYVDNPVLYHAVEQA   226
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                                   *!!**!!*!!**!!* *!**  !*!***! ***!****!!**!*!!!!*!**!!!**!*!!!!!!!**!!**!**!****

logo

NTDB id 615 LCA RS02545 WP 011374200.1      CKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLERDCQTYLKT.QQIL   313
NTDB id 593 KW2 RS05130 WP 021037147.1      KKINGTLLYLTATSTDKLDKQIKKHEIKRLFLPRRFHGHPLVIPMFFWKKTFYK.............KFIEQRKTGFPLL   303
NTDB id 1127481 FGL12 RS03000 WP 012000102.1 VKNEGTTIFLTATSTDELDKKVQKGILKRLSLPRRFHGNPLIIPQKVWLSDLNKDLKKAKLPAKLIKYLIKQRKTRFPLL   306
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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logo

NTDB id 615 LCA RS02545 WP 011374200.1        LFVPQVRLLQPVANRLSTLLPAVRIETLHANDPDQIKKITAFRAQQIQLMVTTTILERGVTFKNVAVLVLGAEHMVFNEA   393
NTDB id 593 KW2 RS05130 WP 021037147.1        IFVAEIDFGQDFAKNLQEKFPKEKMAFVASTTKSRKTIVEAFRKKQVSILITTSILERGVTFSSIDVFVINSEHPNFTKS   383
NTDB id 1127481 FGL12 RS03000 WP 012000102.1  IFASEIKKGQEIKQVLQKYFPEETVGFVASTTENRLEIVQDFRDKKISILITTTILERGVTFPCVDVIVLEANHRLFTRS   386
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                                     *!*****************!*********************!!*********!*!!!!!!!!****!*!****!**!***

logo

NTDB id 615 LCA RS02545 WP 011374200.1        VLVQIAGRAGRHKDYAQNPVHFYYQDYTRAIKGACRQIKTQNQRGRRLQSTV   445
NTDB id 593 KW2 RS05130 WP 021037147.1        ALIQMAGRVGRDSKRPTGLVSFFHSGKSLAMCQAQKEIKKMNRLGGF.....   430
NTDB id 1127481 FGL12 RS03000 WP 012000102.1  ALVQIGGRVGRSMERPTGDLLFFHDGTNIQIEKAINEIKAMNREAGL.....   433
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