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logo

NTDB id 615 LCA RS02545 WP 011374200.1      .MGQQVIACGRQFTAAQLADTQN....NNYSLPQIKRRPAFLRVKHRLVCQRCQQV.VPPQTCLPDGRHYCAQCLLFGRL   74
NTDB id 593 KW2 RS05130 WP 021037147.1      MNLILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNVKLPIGAFFCPTCLELGRV   80
NTDB id 1119806 EL086 RS02015 WP 038675337.1 ..MVPKEYYGRLFTKEQLPV........DYHSEAFTLESMI.KVDKKLRCKRCYSQ.IEEDWQLPEGQYYCRACLVFGRN   68
NTDB id 277 KZH43 RS10090 WP 000867601.1    .MKVNLDYLGRLFTENELTE........EERQLAEKLPAMR.KEKGKLFCQRCNST.ILEEWYLPIGAYYCRECLLMKRV   69
NTDB id 236 SPD RS10765 WP 000867601.1      .MKVNLDYLGRLFTENELTE........EERQLAEKLPAMR.KEKGKLFCQRCNST.ILEEWYLPIGAYYCRECLLMKRV   69
NTDB id 202 SPR RS10250 WP 000867601.1      .MKVNLDYLGRLFTENELTE........EERQLAEKLPAMR.KEKGKLFCQRCNST.ILEEWYLPIGAYYCRECLLMKRV   69
NTDB id 167 SP RS11275 WP 000867616.1       .MKVNLDYLGRLFTENELTE........EERQLAEKLPAMR.KEKGKLFCQRCNST.ILEEWYLPIGAYYCRECLLMKRV   69
NTDB id 507 SM12261 RS09240 WP 000867722.1  .MKVNPNYLGRLFTENELTE........EERQLAEKLPAMR.KEKGKLFCQRCNST.ILEEWYLPIGTYYCRECLLMKRV   69
NTDB id 535 SMSK321 RS10515 WP 000867726.1  .MKVNPNYLGRLFTENELTK........EERQLAEKLPAMR.KEKGKLFCQRCDSA.ILDEWYLPIGAYYCRECLLMKRV   69
consensus                                    ********!**********        ************* *******!*!!*** ******!!*!***!**!****!*

logo

NTDB id 615 LCA RS02545 WP 011374200.1      VEGDWLYTVPECHLFENNIPKLTWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLFQGILVALQKGQRVCLA   154
NTDB id 593 KW2 RS05130 WP 021037147.1      RSDEYFYHLPQQD.FP.EKTYLRWTGKLTENQEKISDALCQQITNNQKLLVQAVTGAGKTEMIYQLIEQILSHGGSVGLA   158
NTDB id 1119806 EL086 RS02015 WP 038675337.1 QEGKELYYFPSKT.SEIEFPVLKWLGELTPYQAEVSEKLLETYQKQKDSLVHAVTGAGKTEMIYKIVAYVLESKGNVAIA   147
NTDB id 277 KZH43 RS10090 WP 000867601.1    RSDQTLYYFPQED.FP.KQDVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 236 SPD RS10765 WP 000867601.1      RSDQTLYYFPQED.FP.KQDVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 202 SPR RS10250 WP 000867601.1      RSDQTLYYFPQED.FP.KQDVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 167 SP RS11275 WP 000867616.1       RSDQTLYYFPQED.FP.KQDVLKWRGQLTPFQEKVSEGLLQVVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 507 SM12261 RS09240 WP 000867722.1  RSDQSLYYFPQED.FP.KQDVLKWRGQLTPFQDKVSQGLLQAVDKQEPSLVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   147
NTDB id 535 SMSK321 RS10515 WP 000867726.1  RSDQVLYYFPQED.FA.KQDILKWRGQLTPFQEKVSEGLIQAVDKQEPILVHAVTGAGKTEMIYQVVAKVINAGGAVCLA   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 1119806 EL086 RS02015 WP 038675337.1 SPRVDVCRELFLRMQRDFTCS.ISLLHAE.SEPYDGSPLVIATTHQLLKFYQNFDLVIVDEVDAFPFVGNVMLNHAVEQA   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      CKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLERDCQTYLK.TQQIL   313
NTDB id 593 KW2 RS05130 WP 021037147.1      KKINGTLLYLTATSTDKLDKQIKKHEIKRLFLPRRFHGHPLVIPMFFWKKTFYKK.............FIEQRKTGFPLL   303
NTDB id 1119806 EL086 RS02015 WP 038675337.1 KKETGRYIYLTATSTLSLEEQVRLGSLEKHHLARRFHGNPLVLPKFCWQGRLQKSLMRGKLPRPLVYQIKKQRKSKFPLL   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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logo

NTDB id 615 LCA RS02545 WP 011374200.1        LFVPQVRLLQPVANRLSTLLPAVRIETLHANDPDQIKKITAFRAQQIQLMVTTTILERGVTFKNVAVLVLGAEHMVFNEA   393
NTDB id 593 KW2 RS05130 WP 021037147.1        IFVAEIDFGQDFAKNLQEKFPKEKMAFVASTTKSRKTIVEAFRKKQVSILITTSILERGVTFSSIDVFVINSEHPNFTKS   383
NTDB id 1119806 EL086 RS02015 WP 038675337.1  IFFPNIAIGEKFTSILQNYLPDEKMAFVSSKSEERSATVENFREKELSILVTTTILERGVTFPQVDVFVCMANHHLYTSS   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                                     *!*****************!*******************!!*********!*!!!!!!!!****!*!****!******

logo

NTDB id 615 LCA RS02545 WP 011374200.1        VLVQIAGRAGRHKDYAQNPVHFYYQDYTRAIKGACRQIKTQNQRGRRLQSTV..   445
NTDB id 593 KW2 RS05130 WP 021037147.1        ALIQMAGRVGRDSKRPTGLVSFFHSGKSLAMCQAQKEIKKMNRLGGF.......   430
NTDB id 1119806 EL086 RS02015 WP 038675337.1  SLIQIGGRVGRSPDRPTGKLYFFHEGLSKSMLRCREEIKVMNKKGGFNNEVSTM   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