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logo

NTDB id 615 LCA RS02545 WP 011374200.1      MGQQ.VIACGRQFTAAQLADTQN....NNYSLPQIKRRPAFLRVKHRLVCQRCQQVV.PPQTCLPDGRHYCAQCLLFGRLVEGDW   79
NTDB id 593 KW2 RS05130 WP 021037147.1      MNLILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNVKLPIGAFFCPTCLELGRVRSDEY   85
NTDB id 20159 SPG 2154 ACF56044.1           MKVN.LDYLGRLFTENELT.........EEERQLAEKLPAMRKEKGKLFCQRCNSTI.LEEWYLPIGAYYCRECLLMKRVRSDQT   74
NTDB id 277 KZH43 RS10090 WP 000867601.1    MKVN.LDYLGRLFTENELT.........EEERQLAEKLPAMRKEKGKLFCQRCNSTI.LEEWYLPIGAYYCRECLLMKRVRSDQT   74
NTDB id 236 SPD RS10765 WP 000867601.1      MKVN.LDYLGRLFTENELT.........EEERQLAEKLPAMRKEKGKLFCQRCNSTI.LEEWYLPIGAYYCRECLLMKRVRSDQT   74
NTDB id 202 SPR RS10250 WP 000867601.1      MKVN.LDYLGRLFTENELT.........EEERQLAEKLPAMRKEKGKLFCQRCNSTI.LEEWYLPIGAYYCRECLLMKRVRSDQT   74
NTDB id 167 SP RS11275 WP 000867616.1       MKVN.LDYLGRLFTENELT.........EEERQLAEKLPAMRKEKGKLFCQRCNSTI.LEEWYLPIGAYYCRECLLMKRVRSDQT   74
NTDB id 507 SM12261 RS09240 WP 000867722.1  MKVN.PNYLGRLFTENELT.........EEERQLAEKLPAMRKEKGKLFCQRCNSTI.LEEWYLPIGTYYCRECLLMKRVRSDQS   74
NTDB id 535 SMSK321 RS10515 WP 000867726.1  MKVN.PNYLGRLFTENELT.........KEERQLAEKLPAMRKEKGKLFCQRCDSAI.LDEWYLPIGAYYCRECLLMKRVRSDQV   74
consensus                                   !*** ****!*********         ********************!*!!**** *****!!*!***!**!!***!******

logo

NTDB id 615 LCA RS02545 WP 011374200.1      LYTVPECHLFENNIPKLTWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLFQGILVALQKGQRVCLAAPRVAVCLEL  164
NTDB id 593 KW2 RS05130 WP 021037147.1      FYHLPQQDFPEK..TYLRWTGKLTENQEKISDALCQQITNNQKLLVQAVTGAGKTEMIYQLIEQILSHGGSVGLASPRIDVCIEL  168
NTDB id 20159 SPG 2154 ACF56044.1           LYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLEL  157
NTDB id 277 KZH43 RS10090 WP 000867601.1    LYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLEL  157
NTDB id 236 SPD RS10765 WP 000867601.1      LYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLEL  157
NTDB id 202 SPR RS10250 WP 000867601.1      LYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLEL  157
NTDB id 167 SP RS11275 WP 000867616.1       LYYFPQEDFPKQ..DVLKWRGQLTPFQEKVSEGLLQVVDKQKPTLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLEL  157
NTDB id 507 SM12261 RS09240 WP 000867722.1  LYYFPQEDFPKQ..DVLKWRGQLTPFQDKVSQGLLQAVDKQEPSLVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLEL  157
NTDB id 535 SMSK321 RS10515 WP 000867726.1  LYYFPQEDFAKQ..DILKWRGQLTPFQEKVSEGLIQAVDKQEPILVHAVTGAGKTEMIYQVVAKVINAGGAVCLASPRIDVCLEL  157
consensus                                   *!**!*******  **!*!*!*!!**!*!*****************!!!!!!!!!!**!********!**!*!!*!!**!!*!!

logo

NTDB id 615 LCA RS02545 WP 011374200.1      YPRLQAAFATTSIMLMHGEQTEPYRYTQLVICTTHQLLKFYHAFDTVIVDEVDAFPFVDNPVLATAVEQACKPQCALLYLTATPT  249
NTDB id 593 KW2 RS05130 WP 021037147.1      HQRLSRDFTCQI.PLLYHE.GDSYFRSPLVVMTSHQLLRFKEAFDLLIIDEVDAFPFRDNDMLYFALENAKKINGTLLYLTATST  251
NTDB id 20159 SPG 2154 ACF56044.1           YKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPTLYHAVKNSVKENGLRIFLTATST  240
NTDB id 277 KZH43 RS10090 WP 000867601.1    YKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNSVKENGLRIFLTATST  240
NTDB id 236 SPD RS10765 WP 000867601.1      YKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNSVKENGLRIFLTATST  240
NTDB id 202 SPR RS10250 WP 000867601.1      YKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNSVKENGLRIFLTATST  240
NTDB id 167 SP RS11275 WP 000867616.1       YKRLQQDFSCGI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNSVKENGLRIFLTATST  240
NTDB id 507 SM12261 RS09240 WP 000867722.1  YKRLQKDFACEI.ALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNSVKENGLRIFLTATST  240
NTDB id 535 SMSK321 RS10515 WP 000867726.1  YKRLQDDFACEI.SLLYGE.SEPYFRTPLVVSTTHQLLKFYQAFDLLIVDEVDAFPYVDNPMLYHAVKNSVKENGLRIFLTATST  240
consensus                                   **!!***!**** *!***!  ***!****!!**!*!!!!*!**!!!!*!*!!!!!!!**!!**!**!*****!*******!!!!*!

logo

NTDB id 615 LCA RS02545 WP 011374200.1      PAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLERDCQTYL.KTQQILLFVPQVRLLQPVANRLSTLL  333
NTDB id 593 KW2 RS05130 WP 021037147.1      DKLDKQIKKHEIKRLFLPRRFHGHPLVIPMFFWKKTFYKK.............FIEQRKTGFPLLIFVAEIDFGQDFAKNLQEKF  323
NTDB id 20159 SPG 2154 ACF56044.1           NELDKKVRLGELKRLSLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLLIFASEIKKGEQLEEILQEQF  325
NTDB id 277 KZH43 RS10090 WP 000867601.1    NELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQF  325
NTDB id 236 SPD RS10765 WP 000867601.1      NELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQF  325
NTDB id 202 SPR RS10250 WP 000867601.1      NELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQF  325
NTDB id 167 SP RS11275 WP 000867616.1       NELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLKSYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQF  325
NTDB id 507 SM12261 RS09240 WP 000867722.1  DELDRKVRIGELKRLSLPRRFHGNPLIIPKPVWLSDFNHCLEKSRLSPKLKSYIEKQRKTGYPLLIFASEIKKGEQLKEILQEQF  325
NTDB id 535 SMSK321 RS10515 WP 000867726.1  DELDRKVRIGELKRLSLPRRFHGNPLIIPKPVWLSDFNRYLEKKCLSPKLKSYIEKQRKTGYPLLIFASEIKKGEQLKEILQKEF  325
consensus                                   *************** !!*!!!!**!**!*****************************!*!*****************
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logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 615 LCA RS02545 WP 011374200.1      PAVRIETLHANDPDQIKKITAFRAQQIQLMVTTTILERGVTFKNVAVLVLGAEHMVFNEAVLVQIAGRAGRHKDYAQNPVHFYYQ   418
NTDB id 593 KW2 RS05130 WP 021037147.1      PKEKMAFVASTTKSRKTIVEAFRKKQVSILITTSILERGVTFSSIDVFVINSEHPNFTKSALIQMAGRVGRDSKRPTGLVSFFHS   408
NTDB id 20159 SPG 2154 ACF56044.1           PNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHD   410
NTDB id 277 KZH43 RS10090 WP 000867601.1    PNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHD   410
NTDB id 236 SPD RS10765 WP 000867601.1      PNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHD   410
NTDB id 202 SPR RS10250 WP 000867601.1      PNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHD   410
NTDB id 167 SP RS11275 WP 000867616.1       PNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHD   410
NTDB id 507 SM12261 RS09240 WP 000867722.1  PNEKIGFVSSITENRLEQVQAFRDRELTILISTTILERGVTFPCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHD   410
NTDB id 535 SMSK321 RS10515 WP 000867726.1  PHEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHD   410
consensus                                   !*******************!!!*********!*!!!!!!!!****!*!****!**!****!*!**!!*!!**********!***

logo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 615 LCA RS02545 WP 011374200.1      DYTRAIKGACRQIKTQNQRGRRLQSTV   445
NTDB id 593 KW2 RS05130 WP 021037147.1      GKSLAMCQAQKEIKKMNRLGGF.....   430
NTDB id 20159 SPG 2154 ACF56044.1           GLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 277 KZH43 RS10090 WP 000867601.1    GLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 236 SPD RS10765 WP 000867601.1      GLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 202 SPR RS10250 WP 000867601.1      GLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 167 SP RS11275 WP 000867616.1       GLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 507 SM12261 RS09240 WP 000867722.1  GLNTSIKKAIKEIQQMNKEAGL.....   432
NTDB id 535 SMSK321 RS10515 WP 000867726.1  GLNTSIKKAIKEIQQMNKEAGL.....   432
consensus                                   ********!***!***!*****
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X non conserved

X similar

X $\geq$ 50% conserved