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logo
NTDB id 108 BSU 35470 NP 391427.1          MNVPVEKNSSFSKELQQTLRSRHLLRTELSFSDEMIE.WHIKNGYITAENSISINKRRYRCNRCGQTDQRYFSFYHSSGK   79
NTDB id 615 LCA RS02545 WP 011374200.1     MG............QQVIACGRQFTAAQLADTQNNNY...SLPQIKRRPAF.LRVKHRLVCQRCQQVVPPQ.T...CLPD   60
NTDB id 593 KW2 RS05130 WP 021037147.1     MNL...........ILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNV...KLPI   66
NTDB id 1119966 EL078 RS02345 WP 126437633.1 ME..........DKNDYYGRIFVESQLS......DELKEE..AEKLPSM.VKRKDNFTCNRCGSIILPD.N...ILQT   55
NTDB id 277 KZH43 RS10090 WP 000867601.1   MK............VNLDYLGRLFTENELT......EEERQL..AEKLPAM.RKEKGKLFCQRCNSTILEE.W...YLPI   55
NTDB id 236 SPD RS10765 WP 000867601.1     MK............VNLDYLGRLFTENELT......EEERQL..AEKLPAM.RKEKGKLFCQRCNSTILEE.W...YLPI   55
NTDB id 202 SPR RS10250 WP 000867601.1     MK............VNLDYLGRLFTENELT......EEERQL..AEKLPAM.RKEKGKLFCQRCNSTILEE.W...YLPI   55
NTDB id 167 SP RS11275 WP 000867616.1      MK............VNLDYLGRLFTENELT......EEERQL..AEKLPAM.RKEKGKLFCQRCNSTILEE.W...YLPI   55
NTDB id 507 SM12261 RS09240 WP 000867722.1 MK............VNPNYLGRLFTENELT......EEERQL..AEKLPAM.RKEKGKLFCQRCNSTILEE.W...YLPI   55
NTDB id 535 SMSK321 RS10515 WP 000867726.1 MK............VNPNYLGRLFTENELT......KEERQL..AEKLPAM.RKEKGKLFCQRCDSAILDE.W...YLPI   55
consensus                                  !*              ****************      ******  *******  ********!*!!*******  *    ****

logo
NTDB id 108 BSU 35470 NP 391427.1          NKLYCRSCVMMGRVSEEVPLYSWKEENESNWKSIKLTWDGKLSSGQQKAANVLIEAISKKEELLIWAVCGAGKTEMLFPG   159
NTDB id 615 LCA RS02545 WP 011374200.1     GRHYCAQCLLFGRLVEGDWLYTVPECHLFENNIPKLTWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLFQG   140
NTDB id 593 KW2 RS05130 WP 021037147.1     GAFFCPTCLELGRVRSDEYFYHLPQQDFPEKT..YLRWTGKLTENQEKISDALCQQITNNQKLLVQAVTGAGKTEMIYQL   144
NTDB id 1119966 EL078 RS02345 WP 126437633.1 GQTYCRECLVFGRNISDSYLYYFQQKSFQKNN..SLNWQGQLTLYQNEVSEGMLSGIAEKKDLLVHAVTGAGKTEMIYHS   133
NTDB id 277 KZH43 RS10090 WP 000867601.1   GAYYCRECLLMKRVRSDQTLYYFPQEDFPKQD..VLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQV   133
NTDB id 236 SPD RS10765 WP 000867601.1     GAYYCRECLLMKRVRSDQTLYYFPQEDFPKQD..VLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQV   133
NTDB id 202 SPR RS10250 WP 000867601.1     GAYYCRECLLMKRVRSDQTLYYFPQEDFPKQD..VLKWRGQLTPFQEKVSEGLLQAVDKQKPTLVHAVTGAGKTEMIYQV   133
NTDB id 167 SP RS11275 WP 000867616.1      GAYYCRECLLMKRVRSDQTLYYFPQEDFPKQD..VLKWRGQLTPFQEKVSEGLLQVVDKQKPTLVHAVTGAGKTEMIYQV   133
NTDB id 507 SM12261 RS09240 WP 000867722.1 GTYYCRECLLMKRVRSDQSLYYFPQEDFPKQD..VLKWRGQLTPFQDKVSQGLLQAVDKQEPSLVHAVTGAGKTEMIYQV   133
NTDB id 535 SMSK321 RS10515 WP 000867726.1 GAYYCRECLLMKRVRSDQVLYYFPQEDFAKQD..ILKWRGQLTPFQEKVSEGLIQAVDKQEPILVHAVTGAGKTEMIYQV   133
consensus                                  ****!**!****!******!***********  *!*!*!*!***!*****************!!*!!!!!!!****

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NTDB id 108 BSU 35470 NP 391427.1          IESALNQGLRVCIATPRTDVVLELAPRLKAAFQGADISALYGGSDDKGRLSPLMISTTHQLLRYKDAIDVMIIDEVDAFP   239
NTDB id 615 LCA RS02545 WP 011374200.1     ILVALQKGQRVCLAAPRVAVCLELYPRLQAAFATTSIMLMHGEQTEPYRYTQLVICTTHQLLKFYHAFDTVIVDEVDAFP   220
NTDB id 593 KW2 RS05130 WP 021037147.1     IEQILSHGGSVGLASPRIDVCIELHQRLSRDFTCQ.IPLLYHE.GDSYFRSPLVVMTSHQLLRFKEAFDLLIIDEVDAFP   222
NTDB id 1119966 EL078 RS02345 WP 126437633.1 VAKIIDDGGCVCIASPRIDVCLELYKRMSRDFSCP.ITLLHGE.AEPYKRAPLIIATTHQLLKFYQAFDLLIIDEVDAFP   211
NTDB id 277 KZH43 RS10090 WP 000867601.1   VAKVINAGGAVCLASPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFP   211
NTDB id 236 SPD RS10765 WP 000867601.1     VAKVINAGGAVCLASPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFP   211
NTDB id 202 SPR RS10250 WP 000867601.1     VAKVINAGGAVCLASPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFP   211
NTDB id 167 SP RS11275 WP 000867616.1      VAKVINAGGAVCLASPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFP   211
NTDB id 507 SM12261 RS09240 WP 000867722.1 VAKVINAGGAVCLASPRIDVCLELYKRLQKDFACE.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFP   211
NTDB id 535 SMSK321 RS10515 WP 000867726.1 VAKVINAGGAVCLASPRIDVCLELYKRLQDDFACE.ISLLYGE.SEPYFRTPLVVSTTHQLLKFYQAFDLLIVDEVDAFP   211
consensus                                  *******!**!**!*!!**!**!!**!** *!***  !******  ********!***!*!!!!****!*!**!*!!!!!!!
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logo

NTDB id 108 BSU 35470 NP 391427.1                YSADQTLQFAVQKARKKNSTLVYLSATPPKELKRKALNGQLHSVRIPARHHRKPLPEPRFVWCGNWKKKLNRNKIPPAVK   319
NTDB id 615 LCA RS02545 WP 011374200.1           FVDNPVLATAVEQACKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLE   300
NTDB id 593 KW2 RS05130 WP 021037147.1           FRDNDMLYFALENAKKINGTLLYLTATSTDKLDKQIKKHEIKRLFLPRRFHGHPLVIPMFFWKKTFYKK...........   291
NTDB id 1119966 EL078 RS02345 WP 126437633.1     FVDNKMLYYAVNQSLKKDGVKIFLTATSTDELDKKVRKGDLKKLHLARRFHANPLVVPKMLWLSGVLKSMKKGKIPKKLN   291
NTDB id 277 KZH43 RS10090 WP 000867601.1         YVDNPMLYHAVKNSVKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLK   291
NTDB id 236 SPD RS10765 WP 000867601.1           YVDNPMLYHAVKNSVKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLK   291
NTDB id 202 SPR RS10250 WP 000867601.1           YVDNPMLYHAVKNSVKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLK   291
NTDB id 167 SP RS11275 WP 000867616.1            YVDNPMLYHAVKNSVKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKPIWLSDFNRYLDKNRLSPKLK   291
NTDB id 507 SM12261 RS09240 WP 000867722.1       YVDNPMLYHAVKNSVKENGLRIFLTATSTDELDRKVRIGELKRLSLPRRFHGNPLIIPKPVWLSDFNHCLEKSRLSPKLK   291
NTDB id 535 SMSK321 RS10515 WP 000867726.1       YVDNPMLYHAVKNSVKENGLRIFLTATSTDELDRKVRIGELKRLSLPRRFHGNPLIIPKPVWLSDFNRYLEKKCLSPKLK   291
consensus                                        ******!**!*****!*******!*!!** ************** ***!*!***!**!**********************
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logo

NTDB id 108 BSU 35470 NP 391427.1                RWIEFHVKEGRPVFLFVPSVSILEKAAACFKGV..HCRTASVHAEDKHRKEKVQQFRDGQLDLLITTTILERGVTVPKVQ   397
NTDB id 615 LCA RS02545 WP 011374200.1           RDCQTYLK.TQQILLFVPQVRLLQPVANRLSTLLPAVRIETLHANDPDQIKKITAFRAQQIQLMVTTTILERGVTFKNVA   379
NTDB id 593 KW2 RS05130 WP 021037147.1           ..FIEQRKTGFPLLIFVAEIDFGQDFAKNLQEKFPKEKMAFVASTTKSRKTIVEAFRKKQVSILITTSILERGVTFSSID   369
NTDB id 1119966 EL078 RS02345 WP 126437633.1     LLLKNQRKAGYPLLIFFPNIEQGKRFSMVLQEKFPTEKIGFVSSQSEDRLELVEKFRKNEITILVSTTILERGVTFPCVD   371
NTDB id 277 KZH43 RS10090 WP 000867601.1         SYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVD   371
NTDB id 236 SPD RS10765 WP 000867601.1           SYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVD   371
NTDB id 202 SPR RS10250 WP 000867601.1           SYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVD   371
NTDB id 167 SP RS11275 WP 000867616.1            SYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVD   371
NTDB id 507 SM12261 RS09240 WP 000867722.1       SYIEKQRKTGYPLLIFASEIKKGEQLKEIIQEQFPNEKIGFVSSITENRLEQVQAFRDRELTILISTTILERGVTFPCVD   371
NTDB id 535 SMSK321 RS10515 WP 000867726.1       SYIEKQRKTGYPLLIFASEIKKGEQLKEILQKEFPHEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTFPCVD   371
consensus                                        *******!*******!*************************************!!*********!*!!!!!!!*****
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logo

NTDB id 108 BSU 35470 NP 391427.1                TGVLGAESSIFTESALVQIAGRTGRHKEYADGDVIYFHFGKTKSMLDARKHIKEMNELAAKVECTD   463
NTDB id 615 LCA RS02545 WP 011374200.1           VLVLGAEHMVFNEAVLVQIAGRAGRHKDYAQNPVHFYYQDYTRAIKGACRQIKTQNQRGRRLQSTV   445
NTDB id 593 KW2 RS05130 WP 021037147.1           VFVINSEHPNFTKSALIQMAGRVGRDSKRPTGLVSFFHSGKSLAMCQAQKEIKKMNRLGGF.....   430
NTDB id 1119966 EL078 RS02345 WP 126437633.1     VFVVLANHKLYTKSALVQISGRVGRAAERPTGELLFLHDGATKSMQQAIKEIKEMNKKGGF.....   432
NTDB id 277 KZH43 RS10090 WP 000867601.1         VFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 236 SPD RS10765 WP 000867601.1           VFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 202 SPR RS10250 WP 000867601.1           VFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 167 SP RS11275 WP 000867616.1            VFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 507 SM12261 RS09240 WP 000867722.1       VFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNTSIKKAIKEIQQMNKEAGL.....   432
NTDB id 535 SMSK321 RS10515 WP 000867726.1       VFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNTSIKKAIKEIQQMNKEAGL.....   432
consensus                                        **!************!*!**!!*!!****************** ****!***!* *!*****
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X non conserved

X similar

X $\geq$ 50% conserved