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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.LRVKHRLVCQRCGQVVPPQ.T...CLPD   60
NTDB id 593 KW2 RS05130 WP 021037147.1           MNL...........ILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNV...KLPI   66
NTDB id 406309 GPA00 RS05315 WP 157327770.1      ME............DKNDYYGRIFVESQLS......DELKEE..AEKLPSM.VKRKDNFTCNRCGSIVLPD.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 406309 GPA00 RS05315 WP 157327770.1      GQTYCRECLVFGRNISDSYLYYFPQKSFPKNN..SLNWQGQLTPYQNEVSEGMLSGIAEKKDLLVHAVTGAGKTEMIYHS   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 406309 GPA00 RS05315 WP 157327770.1      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 406309 GPA00 RS05315 WP 157327770.1 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          RWIEFHVKECRPVFLFVPSVSILEKAAACFKGV..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 406309 GPA00 RS05315 WP 157327770.1 LLLKNQRKAGYPLLIFFPNIEQGKRFSMVLQEKFPTEKIGFVSSQTEDRLELVEKFRKNEITILVSTTILERGVTFPCVD   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 406309 GPA00 RS05315 WP 157327770.1 VFVILANHKLYTKSALVQISGRVGRAAERPTGELLFLHDGATKSMQQAIKEIKEMNKKGGF.....   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 ≥ 50% conserved