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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............QQVIACGRQFTAAQLADTQNNNYSL...PQIKRRPAF.LRVKHRLVCQRCGQV.VPPQTC...LPD   60
NTDB id 167 SP RS11275 WP 000867616.1      MK............VNLDYLGRLFTENELTEEERQ........LAEKLPAM.RKEKGKLFCQRCNST.ILEEWY...LPI   55
NTDB id 277 KZH43 RS10090 WP 000867601.1   MK............VNLDYLGRLFTENELTEEERQ........LAEKLPAM.RKEKGKLFCQRCNST.ILEEWY...LPI   55
NTDB id 236 SPD RS10765 WP 000867601.1     MK............VNLDYLGRLFTENELTEEERQ........LAEKLPAM.RKEKGKLFCQRCNST.ILEEWY...LPI   55
NTDB id 202 SPR RS10250 WP 000867601.1     MK............VNLDYLGRLFTENELTEEERQ........LAEKLPAM.RKEKGKLFCQRCNST.ILEEWY...LPI   55
NTDB id 535 SMSK321 RS10515 WP 000867726.1 MK............VNPNYLGRLFTENELTKEERQ........LAEKLPAM.RKEKGKLFCQRCDSA.ILDEWY...LPI   55
NTDB id 507 SM12261 RS09240 WP 000867722.1 MK............VNPNYLGRLFTENELTEEERQ........LAEKLPAM.RKEKGKLFCQRCNST.ILEEWY...LPI   55
NTDB id 399195 GIG89 RS04115 WP 153924719.1 ...............MNFLYGRLLLQKELSKIPDK.........ATLFDSMHDISRTVIMCNRCGKKSKKKEVL...LPV   53
NTDB id 593 KW2 RS05130 WP 021037147.1     MN...........LILENLLGHLLLEKDISAFNNFTDQVNNENKLIKIGAMTSVNANKVRCNRCGTIHIKTNVK...LPI   66
consensus                                  **            ********************        ******** ********!*!!*** ******    ***

logo

NTDB id 108 BSU 35470 NP 391427.1          NKLYCRSCVMMGRVSEEVPLYSWKEENESNWKSIKLTWDGKLSSGQQKAANVLIEAISKKEELLIWAVCGAGKTEMLFPG   159
NTDB id 615 LCA RS02545 WP 011374200.1     GRHYCAQCLLFGRLVEGDWLYTVPECHLFENNIPKLTWEGQLTPHQEKAAQAVVEVVQTQKRHVLTAVTGAGKTEMLFQG   140
NTDB id 167 SP RS11275 WP 000867616.1      GAYYCRECLLMKRVRSDQTLYYFPQEDFPKQD..VLKWRGQLTPFQEKVSEGLLQVVDKQKPTLVHAVTGAGKTEMIYQV   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 535 SMSK321 RS10515 WP 000867726.1 GAYYCRECLLMKRVRSDQVLYYFPQEDFAKQD..ILKWRGQLTPFQEKVSEGLIQAVDKQEPILVHAVTGAGKTEMIYQV   133
NTDB id 507 SM12261 RS09240 WP 000867722.1 GTYYCRECLLMKRVRSDQSLYYFPQEDFPKQD..VLKWRGQLTPFQDKVSQGLLQAVDKQEPSLVHAVTGAGKTEMIYQV   133
NTDB id 399195 GIG89 RS04115 WP 153924719.1 GAYYCPHCIQMGRVRSDEKLYHLPQEDFLAAS..FLNWQGKLTAPQQYISDTLVKLHQQQKTVLVQAVTGAGKTEMIYQM   131
NTDB id 593 KW2 RS05130 WP 021037147.1     GAFFCPTCLELGRVRSDEYFYHLPQQDFPEKT..YLRWTGKLTENQEKISDALCQQITNNQKLLVQAVTGAGKTEMIYQL   144
consensus                                  ****!**!****!******!***********  *!*!*!*!***!*******************!!*!!!!!!!****

logo

NTDB id 108 BSU 35470 NP 391427.1          IESALNQGLRVCIATPRTDVVLELAPRLKAAFQGADISALYGGSDDKGRLSPLMISTTHQLLRYKDAIDVMIIDEVDAFP   239
NTDB id 615 LCA RS02545 WP 011374200.1     ILVALQKGQRVCLAAPRVAVCLELYPRLQAAFATTSIMLMHGEQTEPYRYTQLVICTTHQLLKFYHAFDTVIVDEVDAFP   220
NTDB id 167 SP RS11275 WP 000867616.1      VAKVINAGGAVCLASPRIDVCLELYKRLQQDFSCG.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFP   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 535 SMSK321 RS10515 WP 000867726.1 VAKVINAGGAVCLASPRIDVCLELYKRLQDDFACE.ISLLYGE.SEPYFRTPLVVSTTHQLLKFYQAFDLLIVDEVDAFP   211
NTDB id 507 SM12261 RS09240 WP 000867722.1 VAKVINAGGAVCLASPRIDVCLELYKRLQKDFACE.IALLHGE.SEPYFRTPLVVATTHQLLKFYQAFDLLIVDEVDAFP   211
NTDB id 399195 GIG89 RS04115 WP 153924719.1 IDNTLKKGKAVALTSPRIDVCLELYYRLKRDFSCP.ISLLHGK.SEKYSRSPLVIATTHQLMSFRHAFDLLILDEVDAFP   209
NTDB id 593 KW2 RS05130 WP 021037147.1     IEQILSHGGSVGLASPRIDVCIELHQRLSRDFTCQ.IPLLYHE.GDSYFRSPLVVMTSHQLLRFKEAFDLLIIDEVDAFP   222
consensus                                  *******!**!****!!**!**!!**!!* *!*** !****** ********!***!*!!!*****!*!**!*!!!!!!!
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logo
NTDB id 108 BSU 35470 NP 391427.1          YSADQTLQFAVQKARKKNSTLVYLSATPPKELKRKALNGQLHSVRIPARHHRKPLPEPRF....VWCGNWKKKLNRNKIP   315
NTDB id 615 LCA RS02545 WP 011374200.1     FVDNPVLATAVEQACKPQCALLYLTATPTPAIKRAIAAKQMTVSELPLRFHGHLLPEPQRHVAFNWRAQLKKGRLPKRLE   300
NTDB id 167 SP RS11275 WP 000867616.1      YVDNPMLYHAVKNSVKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKP....IWLSDFNRYLDKNRLS   287
NTDB id 277 KZH43 RS10090 WP 000867601.1   YVDNPMLYHAVKNSVKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKP....IWLSDFNRYLDKNRLS   287
NTDB id 236 SPD RS10765 WP 000867601.1     YVDNPMLYHAVKNSVKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKP....IWLSDFNRYLDKNRLS   287
NTDB id 202 SPR RS10250 WP 000867601.1     YVDNPMLYHAVKNSVKENGLRIFLTATSTNELDKKVRLGELKRLNLPRRFHGNPLIIPKP....IWLSDFNRYLDKNRLS   287
NTDB id 535 SMSK321 RS10515 WP 000867726.1 YVDNPMLYHAVKNSVKENGLRIFLTATSTDELDRKVRIGELKRLSLPRRFHGNPLIIPKP....VWLSDFNRYLEKKCLS   287
NTDB id 507 SM12261 RS09240 WP 000867722.1 YVDNPMLYHAVKNSVKENGLRIFLTATSTDELDRKVRIGELKRLSLPRRFHGNPLIIPKP....VWLSDFNHCLEKSRLS   287
NTDB id 399195 GIG89 RS04115 WP 153924719.1 FPDNDMLSFALTQARKPSSSLIYLTATTTDNLERQVKLGQIEKLQLPRRFHGFPLVLPQF....FWQSKFYKM.......   278
NTDB id 593 KW2 RS05130 WP 021037147.1     FRDNDMLYFALENAKKINGTLLYLTATSTDKLDKQIKKHEIKRLFLPRRFHGHPLVIPMF....FWKKTFYKK.......   291
consensus                                  ******!**!*****!*******!*!!** ***************!*!*!***!**!**     *!**************
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logo
NTDB id 108 BSU 35470 NP 391427.1          PAVKRWIEFHVKEGRPVFLFVPSVSILEKAAACFKG..VHCRTASVHAEDKHRKEKVQQFRDGQLDLLITTTILERGVTV   393
NTDB id 615 LCA RS02545 WP 011374200.1     RDCQTYLKT.....QQILLFVPQVRLLQPVANRLSTLLPAVRIETLHANDPDQIKKITAFRAQQIQLMVTTTILERGVTF   375
NTDB id 167 SP RS11275 WP 000867616.1      PKLKSYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTF   367
NTDB id 277 KZH43 RS10090 WP 000867601.1   PKLKSYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTF   367
NTDB id 236 SPD RS10765 WP 000867601.1     PKLKSYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTF   367
NTDB id 202 SPR RS10250 WP 000867601.1     PKLKSYIEKQRKTAYPLLIFASEIKKGEQLAEILQEQFPNEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTF   367
NTDB id 535 SMSK321 RS10515 WP 000867726.1 PKLKSYIEKQRKTGYPLLIFASEIKKGEQLKEILQKEFPHEKIGFVSSVTEDRLEQVQAFRDGELTILISTTILERGVTF   367
NTDB id 507 SM12261 RS09240 WP 000867722.1 PKLKSYIEKQRKTGYPLLIFASEIKKGEQLKEIIQEQFPNEKIGFVSSITENRLEQVQAFRDRELTILISTTILERGVTF   367
NTDB id 399195 GIG89 RS04115 WP 153924719.1 ......VKKQRESGFPLLIFVPEIRLGEKLNQDLQSSFPHEKIAFVASTSLERLEAVERFRQGNISILVSTTILERGVTF   352
NTDB id 593 KW2 RS05130 WP 021037147.1     ......FIEQRKTGFPLLIFVAEIDFGQDFAKNLQEKFPKEKMAFVASTTKSRKTIVEAFRKKQVSILITTSILERGVTF   365
consensus                                  ******************!*************************************!!*********!*!!!!!!!*
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logo
NTDB id 108 BSU 35470 NP 391427.1          PKVQTGVLGAESSIFTESALVQIAGRTGRHKEYADGDVIYFHFGKTKSMLDARKHIKEMNELAAKVECTD   463
NTDB id 615 LCA RS02545 WP 011374200.1     KNVAVLVLGAEHMVFNEAVLVQIAGRAGRHKDYAQNPVHFYYQDYTRAIKGACRQIKTQNQRGRRLQSTV   445
NTDB id 167 SP RS11275 WP 000867616.1      PCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 277 KZH43 RS10090 WP 000867601.1   PCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 236 SPD RS10765 WP 000867601.1     PCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 202 SPR RS10250 WP 000867601.1     PCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNASIKKAIKEIQMMNKEAGL.....   432
NTDB id 535 SMSK321 RS10515 WP 000867726.1 PCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNTSIKKAIKEIQQMNKEAGL.....   432
NTDB id 507 SM12261 RS09240 WP 000867722.1 PCVDVFVVEANHRLFTKSSLIQIGGRVGRSMDRPTGDLLFFHDGLNTSIKKAIKEIQQMNKEAGL.....   432
NTDB id 399195 GIG89 RS04115 WP 153924719.1 PKVDVFVFQSHHHNFTRSSLIQIAGRVGRSTERPDGKVFFFHLGKITAMLEAYKNIRNINKAGGFQ....   418
NTDB id 593 KW2 RS05130 WP 021037147.1     SSIDVFVINSEHPNFTKSALIQMAGRVGRDSKRPTGLVSFFHSGKSLAMCQAQKEIKKMNRLGGF.....   430
consensus                                  ******!*******!****!*!**!!*!!*****************  ****!***!*  *!*****
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X non conserved

X similar

X $\geq$ 50% conserved