```
logo
                                                  MKITNYEIYKLKKSGLTNQQILKVLEYGENV      DQELLLGDIADISGCRNPAVFMERYFQIDDAHLSKEFQ  K

NTDB id 525 SMSK321 RS06295 WP 000705298.1   ..MKITNYEIYKLKKSGLTNQQILKVLEYGENV......DQELLLGDIADISGCRNPAVFMERYFQIDDAHLEKEFK..K    70
NTDB id 267 KZH43 RS05590 WP 000705306.1     ..MKITNYEIYKLKKSGLTNQQILKVLEYGENV......DQELLLGDIADISGCRNPAVFMERYFQIDDAHLSKEFQ..K    70
NTDB id 226 SPD RS05990 WP 000705306.1       ..MKITNYEIYKLKKSGLTNQQILKVLEYGENV......DQELLLGDIADISGCRNPAVFMERYFQIDDAHLSKEFQ..K    70
NTDB id 192 SPR RS05715 WP 000705306.1       ..MKITNYEIYKLKKSGLTNQQILKVLEYGENV......DQELLLGDIADISGCRNPAVFMERYFQIDDAHLSKEFQ..K    70
NTDB id 157 SP RS06205 WP 000705306.1        ..MKITNYEIYKLKKSGLTNQQILKVLEYGENV......DQELLLGDIADISGCRNPAVFMERYFQIDDAHLSKEFQ..K    70
NTDB id 497 SM12261 RS05565 WP 000705318.1   ..MKITNYEIYKLKKSGLTNQQVLAVLEYGENV......DQELLLGDIAEISGCRNPAVFMERYFQIDDAHLEKEFQ..K    70
NTDB id 323847 CNQ82 RS06270 WP 123144556.1 MTQHESTLELLKLRYAGYTTQQLIRLFKFCPLFLRLSPSDKMTNLRQFTYTSKIRNPAAYLTRYSALSISTILNNLDQHG    80
NTDB id 40 MW RS06080 WP 000593192.1         ....MIKLFLLKLYWAHFSTKQIHQFLMAYPNVIKEEGRKKDSYLCEWVNREENVHLLRKYYAFIKLDHNDIIKELQKLK    76
NTDB id 25 SA RS06185 WP 000593194.1         ....MIKLFLLKLYWAHFSTKQIHQFLMAYPNVIKEEGRKKDSYLCEWVNREENVLLLRKYYAFIKLDHNDIIKELQKLK    76
consensus                                      *********!!********!***********      *****!*************************** ****   *

logo
                                                  FPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFP.KVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLAKGIDT

NTDB id 525 SMSK321 RS06295 WP 000705298.1   IPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFP.KVAVVGSRSCSKQGAKSVEKIIQGL.ENELVIVSGLAKGIDT   148
NTDB id 267 KZH43 RS05590 WP 000705306.1     FPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFP.KVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLAKGIDT   148
NTDB id 226 SPD RS05990 WP 000705306.1       FPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFP.KVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLAKGIDT   148
NTDB id 192 SPR RS05715 WP 000705306.1       FPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFP.KVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLAKGIDT   148
NTDB id 157 SP RS06205 WP 000705306.1        FPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFP.KVAVVGSRACSKQGAKSVEKVIQGL.ENELVIVSGLAKGIDT   148
NTDB id 497 SM12261 RS05565 WP 000705318.1   FPSFSILDDCYPWDLSEIYDAPVLLFYKGNIELLQHTHFLGVVGSRQSTAYTAHALSFLFSHISTSQLTIVSGLATGADS   160
NTDB id 323847 CNQ82 RS06270 WP 123144556.1 VKYISIYDAAYPRLLKEIYDPPFILFYKGNIELLQHTHFLGVVGSRQSTAYTAHALSFLFSHISTSQLTIVSGLATGADS   160
NTDB id 40 MW RS06080 WP 000593192.1         VSYITYMDSEYPVLLKEIYQFPLLLFYKGNIKLINNMHHLAVVGARDSTSYTQQSLEFLLSNDKSKYLTIVSGLAQGADA   156
NTDB id 25 SA RS06185 WP 000593194.1         VSYITYMDSEYPVLLKEIYQFPLLLFYKGNIKLINNMHHLAVVGARDSTSYTQQSLEFLLSNDKSKYLTIVSGLAQGADA   156
consensus                                    *******!**!!**!*!!!**!**!!!!!!!****  ***!!!*!*******************  ***!*!!!!!!*!*!*

logo
                                                  AAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRS

NTDB id 525 SMSK321 RS06295 WP 000705298.1   AAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRS   228
NTDB id 267 KZH43 RS05590 WP 000705306.1     AAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRS   228
NTDB id 226 SPD RS05990 WP 000705306.1       AAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRS   228
NTDB id 192 SPR RS05715 WP 000705306.1       AAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRS   228
NTDB id 157 SP RS06205 WP 000705306.1        AAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRS   228
NTDB id 497 SM12261 RS05565 WP 000705318.1   AAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRS   228
NTDB id 323847 CNQ82 RS06270 WP 123144556.1 EAHLSALQNQLPTIGVLAFGHAHHYPKSNLHLRNEIEEKGLTLSEYIPEDEPRKFKFPERNRLISGLSQGVLVTESKERS   240
NTDB id 40 MW RS06080 WP 000593192.1         MAHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKIEEKGLVISEYPPHTPIAKYRFPERNRIISGLSKGVLITEAKEQS   236
NTDB id 25 SA RS06185 WP 000593194.1         MAHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKIEEKGLVISEYPPHTPIAKYRFPERNRIISGLSKGVLITEAKEQS   236
consensus                                    *!!**!!*****!!*!***!****!!!****!***!****!**!!!*!*****!**!!*!!!*!*!!**!!***!*!**!

logo
                                                  GSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF

NTDB id 525 SMSK321 RS06295 WP 000705298.1   GSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...........   282
NTDB id 267 KZH43 RS05590 WP 000705306.1     GSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...........   282
NTDB id 226 SPD RS05990 WP 000705306.1       GSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...........   282
NTDB id 192 SPR RS05715 WP 000705306.1       GSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...........   282
NTDB id 157 SP RS06205 WP 000705306.1        GSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...........   282
NTDB id 497 SM12261 RS05565 WP 000705318.1   GSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF...........   282
NTDB id 323847 CNQ82 RS06270 WP 123144556.1 GAQITIDLALQQNRNVYVLPGSIFQELTKGNLKRAQEGATIVLEIDDILADYNCEIHCKWMSTFK   305
NTDB id 40 MW RS06080 WP 000593192.1         GSHITIDFALEQNRNVYVLPGSMFNPMTKGNLLRIQEGAKVVLNANDIFEDYYI...........   290
NTDB id 25 SA RS06185 WP 000593194.1         GSHITIDFALEQNRNVYVLPGSMFNPMTKGNLLRIQEGAKVVLNANDIFEDYYI...........   290
consensus                                    !**!!***!****!*!***!!!*******!****!!!!**!****!******
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X non conserved
X similar
X $\geq$ 50% conserved