logo



```
NTDB id 25 SA RS06185 WP 000593194.1                .MI.KLFLLKLYWAHFSTKQIHQFLMAYPNVIKEEGRKKDSYLCEWVNREENVLLLRKYYAFIKLDHNDIIKELQKLKVS   78
NTDB id 599 KW2 RS05940 WP 021037268.1              .MITNFDLFRWKKAGMTNLGVNKLLKFFRKYDRKISL.RQ..MGQVAQVKSIPNFIEQ...YKNQDVKKLRADYK..KFS   71
NTDB id 407 SMU RS04605 WP 002262865.1              ..MDNFQLFKLKKAGLTNLNILNIIDYEERTQKSLSL.RD..MAVVSKNKKPLIFMEH...YKNLDSKALRKEFN..RFP   70
NTDB id 525 SMSK321 RS06295 WP 000705298.1          MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLL.GD..IADISGCRNPAVFMER...YFQIDDAHLEKEFK..KIP   72
NTDB id 497 SM12261 RS05565 WP 000705318.1          MKITNYEIYKLKKSGLTNQQVLAVLEYGENVDQELLL.GD..IAEISGCRNPAVFMER...YFQIDDAHLEKEFQ..KFP   72
NTDB id 37288 SPN994039 RS06030 WP 000705300.1      MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLL.GD..IADISGCRNPAVFMER...YFQIDDAHLSKEFQ..KFP   72
NTDB id 267 KZH43 RS05590 WP 000705306.1            MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLL.GD..IADISGCRNPAVFMER...YFQIDDAHLSKEFQ..KFP   72
NTDB id 226 SPD RS05990 WP 000705306.1              MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLL.GD..IADISGCRNPAVFMER...YFQIDDAHLSKEFQ..KFP   72
NTDB id 192 SPR RS05715 WP 000705306.1              MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLL.GD..IADISGCRNPAVFMER...YFQIDDAHLSKEFQ..KFP   72
NTDB id 157 SP RS06205 WP 000705306.1               MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLL.GD..IADISGCRNPAVFMER...YFQIDDAHLSKEFQ..KFP   72
consensus                                           ********************************** **   ****************   ****!**********   ***
```

logo



```
NTDB id 25 SA RS06185 WP 000593194.1                YITYMDSEYPVLLKEIYQFPLLLFYKGNIKLINNMHHLAVVGARDSISYTQQSLEFLLSNDKSKYLTIVSGLAQGCADAMA   158
NTDB id 599 KW2 RS05940 WP 021037268.1              SFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKSVQKIV.TELNQSFTIVSGLAKGIDTAS   149
NTDB id 407 SMU RS04605 WP 002262865.1              SLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKII.QDLSKQFVIISGLARGIDTAA   148
NTDB id 525 SMSK321 RS06295 WP 000705298.1          SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKSVEKII.QGLENELVIVSGLAKGIDTAA   150
NTDB id 497 SM12261 RS05565 WP 000705318.1          SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI.QGLENELVIVSGLAKGIDTAA   150
NTDB id 37288 SPN994039 RS06030 WP 000705300.1      SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI.QGLENELVIVSGLAKGIDTAA   150
NTDB id 267 KZH43 RS05590 WP 000705306.1            SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI.QGLENELVIVSGLAKGIDTAA   150
NTDB id 226 SPD RS05990 WP 000705306.1              SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI.QGLENELVIVSGLAKGIDTAA   150
NTDB id 192 SPR RS05715 WP 000705306.1              SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI.QGLENELVIVSGLAKGIDTAA   150
NTDB id 157 SP RS06205 WP 000705306.1               SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI.QGLENELVIVSGLAKGIDTAA   150
consensus                                           *****!**!!**!**!!**!*!*!!*!***!***  ***!*!!*!**************  *********!*!!!!*!*!***
```

logo



```
NTDB id 25 SA RS06185 WP 000593194.1                HQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKIEEKGLVISEYPPHTPIAKYRFPERNRIISGLSKGVLITEAKEQSGS   238
NTDB id 599 KW2 RS05940 WP 021037268.1              HLSATKTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPLKYHFPERNRIIAGLSRGVVVVEAKLRSGS   229
NTDB id 407 SMU RS04605 WP 002262865.1              HLASLKSGGATIAVIGTGLDVHYPKENRRLQDYIAKNHLLLSEYEAQSQPLKYHFPERNRIIAGLSQGVMVAEAKIRSGS   228
NTDB id 525 SMSK321 RS06295 WP 000705298.1          HMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGS   230
NTDB id 497 SM12261 RS05565 WP 000705318.1          HMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGS   230
NTDB id 37288 SPN994039 RS06030 WP 000705300.1      HMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLALSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGS   230
NTDB id 267 KZH43 RS05590 WP 000705306.1            HMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGS   230
NTDB id 226 SPD RS05990 WP 000705306.1              HMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGS   230
NTDB id 192 SPR RS05715 WP 000705306.1              HMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGS   230
NTDB id 157 SP RS06205 WP 000705306.1               HMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGS   230
consensus                                           !*********!!!!***!****!!**********!**!!!*******!**!!*!!!!!*!!**!!***!!!**!!!
```

logo 

```
NTDB id 25 SA RS06185 WP 000593194.1            HITIDFALEQNRNVYVLPGSMFNPMTKGNLLRIQEGAKVVLNANDIFEDYYI.   290
NTDB id 599 KW2 RS05940 WP 021037268.1          LITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN   282
NTDB id 407 SMU RS04605 WP 002262865.1          LITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF.   280
NTDB id 525 SMSK321 RS06295 WP 000705298.1      LITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 497 SM12261 RS05565 WP 000705318.1      LITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 37288 SPN994039 RS06030 WP 000705300.1  LITCERAMEEGRDIFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 267 KZH43 RS05590 WP 000705306.1        LITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 226 SPD RS05990 WP 000705306.1          LITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 192 SPR RS05715 WP 000705306.1          LITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
NTDB id 157 SP RS06205 WP 000705306.1           LITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF.   282
consensus                                       *!!***!*!**!*****!!********!****!!*!!!******!*******
```

X non conserved

X similar

X ≥ 50% conserved