```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 114 BSU 16110 NP 389493.1          MDQAAVCLTICRINQLLSPSLLLKWWKAD.................PSMSLT.........SPVLQTVTRDQIKAAALKN   54
NTDB id 599 KW2 RS05940 WP 021037268.1     ...............MITNFDLFRWKKAGMTNLGVNKLLKFFRKYDRKISLRQMGQVAQVKSIPNFIEQYKNQDVKKLRA   65
NTDB id 525 SMSK321 RS06295 WP 000705298.1 ...............MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYFQIDDAHLEK   66
NTDB id 267 KZH43 RS05590 WP 000705306.1   ...............MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYFQIDDAHLSK   66
NTDB id 226 SPD RS05990 WP 000705306.1     ...............MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYFQIDDAHLSK   66
NTDB id 192 SPR RS05715 WP 000705306.1     ...............MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYFQIDDAHLSK   66
NTDB id 157 SP RS06205 WP 000705306.1      ...............MKITNYEIYKLKKSGLTNQQILKVLEYGENVDQELLLGDIADISGCRNPAVFMERYFQIDDAHLSK   66
NTDB id 497 SM12261 RS05565 WP 000705318.1 ...............MKITNYEIYKLKKSGLTNQQVLAVLEYGENVDQELLLGDIAEISGCRNPAVFMERYFQIDDAHLEK   66
NTDB id 1138160 DQL13 RS05020 WP 012515603.1 .................MNNFELYKLKKAGLTNLNILNLIDYQQRNNKSLSLRDMAVVSCCKNPVLFIETYKQLNVALLKK   64
NTDB id 407 SMU RS04605 WP 002262865.1     .................MDNFQLFKLKKAGLTNLNILNIIDYEERTQKSLSLRDMAVVSKNKKPLIFMEHYKNLDSKALRK   64
consensus                                                  *************!**********************!***************************! *
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 114 BSU 16110 NP 389493.1          EIEQFYPKLPRVLAAYREQGINTIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPTAYGKQVVNHLT   134
NTDB id 599 KW2 RS05940 WP 021037268.1     D................YKKFSSFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKSVQKIV   128
NTDB id 525 SMSK321 RS06295 WP 000705298.1 E................FKKIPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKSVEKII   129
NTDB id 267 KZH43 RS05590 WP 000705306.1   E................FQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 226 SPD RS05990 WP 000705306.1     E................FQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 192 SPR RS05715 WP 000705306.1     E................FQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 157 SP RS06205 WP 000705306.1      E................FQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 497 SM12261 RS05565 WP 000705318.1 E................FQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 1138160 DQL13 RS05020 WP 012515603.1 E................FNQFPSLSILDKQYPLALREIYNPPVLLFYQGDLSLLEK.PKLAVVGSRESSEIGTRSVYKII   127
NTDB id 407 SMU RS04605 WP 002262865.1     E................FNRFPSLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKII   127
consensus                                  *               ********!****!!**!**!!**!***!**!***!!**  *!***!!*!*****!***!****
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 114 BSU 16110 NP 389493.1          KEICRKGWVIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHMAKHHILLSEHPPETKPQKWHFPMR   214
NTDB id 599 KW2 RS05940 WP 021037268.1     TEL.NQSFTIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPLKYHFPER   207
NTDB id 525 SMSK321 RS06295 WP 000705298.1 QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 267 KZH43 RS05590 WP 000705306.1   QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 226 SPD RS05990 WP 000705306.1     QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 192 SPR RS05715 WP 000705306.1     QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 157 SP RS06205 WP 000705306.1      QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 497 SM12261 RS05565 WP 000705318.1 QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 1138160 DQL13 RS05020 WP 012515603.1 KEL.KNHFVIVSGLARGIDTSAHLACLKAGGQTIAVIGTGLDRYYPKENHQLQEFLSQRHLVLSEYGAGEAALSYHFPER   206
NTDB id 407 SMU RS04605 WP 002262865.1     QDL.SKQFVIISGLARGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYIAKNHLLLSEYEAQSQPLKYHFPER   206
consensus                                  ***  *****!*!!!!*!!!***!*********!!*!!**!****!!**!**************!!!**********!!!*!
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logo

NTDB id 114 BSU 16110 NP 389493.1              NRIISGLSEGVIVVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKAIWSAEDIFEELPERNVQYT   294
NTDB id 599 KW2 RS05940 WP 021037268.1         NRIIAGLSRGVVVVEAKLRSGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN.....   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1     NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 267 KZH43 RS05590 WP 000705306.1       NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 226 SPD RS05990 WP 000705306.1         NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 192 SPR RS05715 WP 000705306.1         NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 157 SP RS06205 WP 000705306.1          NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 497 SM12261 RS05565 WP 000705318.1     NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 1138160 DQL13 RS05020 WP 012515603.1  NRIIAGLSRGVLVVEAKQRSGSLITCQLAMEEGRDIFVVPDNILNGTSAGCLKLIKDGASCVTHGRDILSEYYYS.....   281
NTDB id 407 SMU RS04605 WP 002262865.1         NRIIAGLSQGVMVAEAKIRSGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF......   280
consensus                                      !!!!*!!**!!*!***!**!!!!!!***!*!*!!**!**!********!***!!**!!*******!***!***

logo

                                               EPF
NTDB id 114 BSU 16110 NP 389493.1              EPF   297
NTDB id 599 KW2 RS05940 WP 021037268.1         ...   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1     ...   282
NTDB id 267 KZH43 RS05590 WP 000705306.1       ...   282
NTDB id 226 SPD RS05990 WP 000705306.1         ...   282
NTDB id 192 SPR RS05715 WP 000705306.1         ...   282
NTDB id 157 SP RS06205 WP 000705306.1          ...   282
NTDB id 497 SM12261 RS05565 WP 000705318.1     ...   282
NTDB id 1138160 DQL13 RS05020 WP 012515603.1   ...   281
NTDB id 407 SMU RS04605 WP 002262865.1         ...   280
consensus
```

X non conserved
X similar
X ≥ 50% conserved