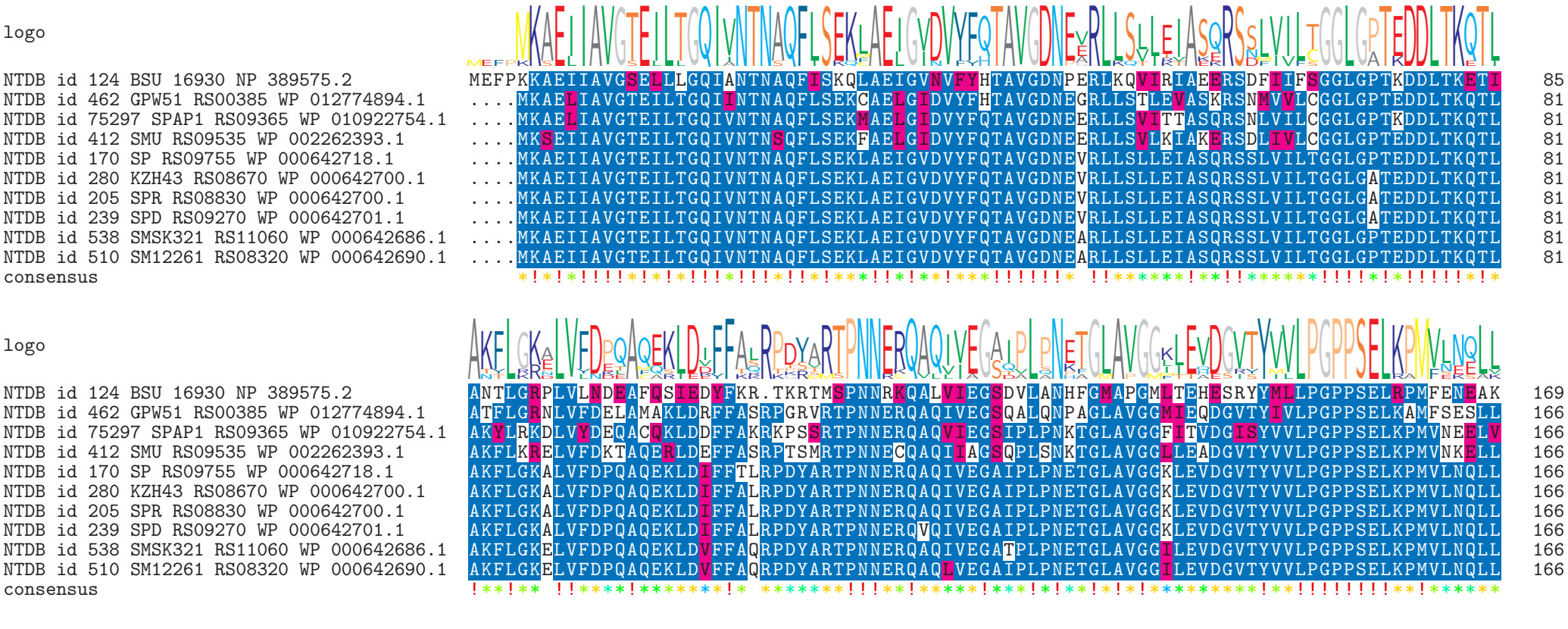

logo
NTDB id 124 BSU 16930 NP 389575.2 MEFPKKAEIIAVGSELLLGQIANTNAQFISKQLAEIGVNVFYHTAVGDNPERLKQVIRIAEERSDFIIFSGGLGPTKDDLTKETI 85
NTDB id 462 GPW51 RS00385 WP 012774894.1 ....MKAELIAVGTEILTGQIINTNAQFLSEKCAELGIDVYFHTAVGDNEGRLLSTLEVASKRSNMVVLCGGLGPTEDDLTKQTL 81
NTDB id 75297 SPAP1 RS09365 WP 010922754.1 ....MKAELIAVGTEILTGQIVNTNAQFLSEKMAELGIDVYFQTAVGDNEERLLSVITTASQRSNLVILCGGLGPTKDDLTKQTL 81
NTDB id 412 SMU RS09535 WP 002262393.1 ....MKSEIIAVGTEILTGQIVNTNSQFLSEKFAELGIDVYFQTAVGDNEERLLSVLKIAKERSDLIVLCGGLGPTEDDLTKQTL 81
NTDB id 170 SP RS09755 WP 000642718.1 ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGPTEDDLTKQTL 81
NTDB id 280 KZH43 RS08670 WP 000642700.1 ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDLTKQTL 81
NTDB id 205 SPR RS08830 WP 000642700.1 ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDLTKQTL 81
NTDB id 239 SPD RS09270 WP 000642701.1 ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEVRLLSLLEIASQRSSLVILTGGLGATEDDLTKQTL 81
NTDB id 538 SMSK321 RS11060 WP 000642686.1 ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEARLLSLLEIASQRSSLVILTGGLGPTEDDLTKQTL 81
NTDB id 510 SM12261 RS08320 WP 000642690.1 ....MKAEIIAVGTEILTGQIVNTNAQFLSEKLAEIGVDVYFQTAVGDNEARLLSLLEIASQRSSLVILTGGLGPTEDDLTKQTL 81
consensus
logo
NTDB id 124 BSU 16930 NP 389575.2 ANTLGRPLVLNDEAFQSIEDYFKR.TKRTMSPNNRKQALVIEGSDVLANHFGMAPGMLTEHESRYYMLLPGPPSELRPMFENEAK 169
NTDB id 462 GPW51 RS00385 WP 012774894.1 ATFLGRNLVFDELAMAKLDRFFASRPGRVRTPNNERQAQIVEGSQALQNPAGLAVGGMIEQDGVTYIVLPGPPSELKAMFSESLL 166
NTDB id 75297 SPAP1 RS09365 WP 010922754.1 AKYLRKDLVYDEQACQKLDDFFAKRKPSSRTPNNERQAQVIEGSIPLPNKTGLAVGGFITVDGISYVVLPGPPSELKPMVNEELV 166
NTDB id 412 SMU RS09535 WP 002262393.1 AKFLKRELVFDKTAQERLDEFFASRPTSMRTPNNECQAQIIAGSQPLSNKTGLAVGGLLEADGVTYVVLPGPPSELKPMVNKELL 166
NTDB id 170 SP RS09755 WP 000642718.1 AKFLGKALVFDPQAQEKLDIFFTLRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSELKPMVLNQLL 166
NTDB id 280 KZH43 RS08670 WP 000642700.1 AKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSELKPMVLNQLL 166
NTDB id 205 SPR RS08830 WP 000642700.1 AKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQAQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSELKPMVLNQLL 166
NTDB id 239 SPD RS09270 WP 000642701.1 AKFLGKALVFDPQAQEKLDIFFALRPDYARTPNNERQVQIVEGAIPLPNETGLAVGGKLEVDGVTYVVLPGPPSELKPMVLNQLL 166
NTDB id 538 SMSK321 RS11060 WP 000642686.1 AKFLGKELVFDPQAQEKLDVFFAQRPDYARTPNNERQAQIVEGATPLPNETGLAVGGILEVDGVTYVVLPGPPSELKPMVLNQLL 166
NTDB id 510 SM12261 RS08320 WP 000642690.1 AKFLGKELVFDPQAQEKLDVFFAQRPDYARTPNNERQAQLVEGAIPLPNETGLAVGGILEVDGVTYVVLPGPPSELKPMVLNQLL 166
consensus
logo
NTDB id 124 BSU 16930 NP 389575.2 PLLLKKMGSNEKIVSTVLRFFGIGESQLEADLEDIIDAQTNPTIAPLAADGEVTLRLTAKHADEKETERLLKETEAVILE..... 249
NTDB id 462 GPW51 RS00385 WP 012774894.1 PLLSQ...SQQQLYSRVLRFFGIGESQLVTVLADVIDKQTDPTLAPYAKVGEVTLRLSTKATSQEEANLRLNQLEEDILQHD... 245
NTDB id 75297 SPAP1 RS09365 WP 010922754.1 PLLSK...QYSTLYSKVLRFFGIGESQLVTVLSDFIENQTDPTIAPYAKTGEVTLRLSTKTENQALADKKLGQLEAQLLSRKTLE 248
NTDB id 412 SMU RS09535 WP 002262393.1 PYLSK...TSEKLYSRVLRFFGIGESHLVTLLHDLIAEQTDPTIAPYAKTGEVTIRLSTKAHRQKEADSKLDKLEKKIITID... 245
NTDB id 170 SP RS09755 WP 000642718.1 PKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQALDILENQILDCQTFE 247
NTDB id 280 KZH43 RS08670 WP 000642700.1 PKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQALDILENQILDCQTFE 247
NTDB id 205 SPR RS08830 WP 000642700.1 PKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQALDILENQILDCQTFE 247
NTDB id 239 SPD RS09270 WP 000642701.1 PKLM....TGSKLYSRVLRFFGIGESQLVTILADLIDNQIDPTLAPYAKTGEVTLRLSTKASSQEEANQALDILENQILDCQTFE 247
NTDB id 538 SMSK321 RS11060 WP 000642686.1 PKLM....TGSKLYSRVLRFFGIGESQLVTILSDLIDNQTDPTLAPYAKTGEVTLRLSTKASSQEEANQVLDILENQILGRQTFE 247
NTDB id 510 SM12261 RS08320 WP 000642690.1 PKLM....TGSKLHSRVLRFFGIGESQLVTILSDLIDNQTDPTLAPYAKTGEVTLRLSTKASSQEEANQVLDILENQILGRQTFE 247
consensus

logo



```
NTDB id 124 BSU 16930 NP 389575.2          ..RVGEFFYGYDD.TSLVKELSIACKEKGITISAAESFTGGLFSEWLTDHSGASKLFAGGVVCYTNDVKQNVLGVKKETLDRFGA  331
NTDB id 462 GPW51 RS00385 WP 012774894.1   ..KLADYFYAYGEDNSLVKTVATRLAEKRQTIAIVEQGTGGLLQAELSLALADQPYFSGGKVVGQLGIE.................  312
NTDB id 75297 SPAP1 RS09365 WP 010922754.1 GQPLADVFYGYGEDNSLARETFELLVKYDKTITAAESLTAGLFQSTLASFPGASQVFNGGFVTYSMEEKAKMLGLPLEELKSHGV  333
NTDB id 412 SMU RS09535 WP 002262393.1     ..NLADYFYGYGEENSLPQVVFDLLKEKGKTITAAESLTAGLFQARLADFAGASDIFKGGFITYSIEEKARMLGIPFEDLQLHGV  328
NTDB id 170 SP RS09755 WP 000642718.1      GISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFKGGFVTYSLEEKSRMLDIPAKNLEEHGV  332
NTDB id 280 KZH43 RS08670 WP 000642700.1   GISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYSLEEKSRMLDIPAKNLEEHGV  332
NTDB id 205 SPR RS08830 WP 000642700.1     GISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYSLEEKSRMLDIPAKNLEEHGV  332
NTDB id 239 SPD RS09270 WP 000642701.1     GISLRDFCYGYGEETSLASIVVEELKRQGKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYSLEEKSRMLDIPAKNLEEHGV  332
NTDB id 538 SMSK321 RS11060 WP 000642686.1 GLSLRDLCYGYGEEASLASIVVEELKKQGKTITAAESLTAGLFQATVADFSGASSIFKGGFVTYSLEEKSKMLDIPVKDLEEQGV  332
NTDB id 510 SM12261 RS08320 WP 000642690.1 GLSLRDLCYGYGEETSLASIVVEELKRQGKTITSAESLTAGLFQARVADFSGASSIFKGGFVTYSLEEKSKMLDIPVKDLEEQGV  332
consensus                                  ********!*!****!!***************!!***!**!*!!******  ********!  !!****************** *  ******
```

logo



```
NTDB id 124 BSU 16930 NP 389575.2          VSKECASELAKGVQKLTGSDIGISFTGVAGPDAQEGHEPCHVFIGISANGKEEVHEFHFAGSR.TGIRKRGAKYGCHLILKLLEQ  415
NTDB id 462 GPW51 RS00385 WP 012774894.1   .SGWLS.EEADCIRQELQADLGLAVSVLIKPESTEDNVLAKVYLTLATPSGISQKEIDLGGYSWQYLRQLACLQAWDFVRNTL..  393
NTDB id 75297 SPAP1 RS09365 WP 010922754.1 VSAYTAEGMAEQARLLTGADIGVSLTGVAGPDMLEEQPAGTVFIGLATQNKVESIKVLISGRSRLDVRYIATLHAFNMVRKTLLK  418
NTDB id 412 SMU RS09535 WP 002262393.1     VSAFTAEKMAERSRQLTQADLAISLTGVAGPDSLEGQPAGTVFIGLSSSKRTMAIKVLIGGRSRSDVRYIAVLHAFNLVRQTLLS  413
NTDB id 170 SP RS09755 WP 000642718.1      VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS  417
NTDB id 280 KZH43 RS08670 WP 000642700.1   VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS  417
NTDB id 205 SPR RS08830 WP 000642700.1     VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS  417
NTDB id 239 SPD RS09270 WP 000642701.1     VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPVGTVFIGLAQDQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS  417
NTDB id 538 SMSK321 RS11060 WP 000642686.1 VSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHPAGTVFIGLAQEHGTKVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS  417
NTDB id 510 SM12261 RS08320 WP 000642690.1 VSEFTAQKMAEQARIKTQSDFGLSLTGVAGPDSLEGHPAGTVFIGLAQEQGTEVIKVNIGGRSRADVRHIAVMHAFNLVRKALLS  417
consensus                                  *!*******!**********!**********!***!******!*******************!*******!***************!**
```

logo



```
NTDB id 124 BSU 16930 NP 389575.2          .K...   416
NTDB id 462 GPW51 RS00385 WP 012774894.1   .....   393
NTDB id 75297 SPAP1 RS09365 WP 010922754.1 LENLL   423
NTDB id 412 SMU RS09535 WP 002262393.1     HKNLV   418
NTDB id 170 SP RS09755 WP 000642718.1      D....   418
NTDB id 280 KZH43 RS08670 WP 000642700.1   D....   418
NTDB id 205 SPR RS08830 WP 000642700.1     D....   418
NTDB id 239 SPD RS09270 WP 000642701.1     D....   418
NTDB id 538 SMSK321 RS11060 WP 000642686.1 D....   418
NTDB id 510 SM12261 RS08320 WP 000642690.1 D....   418
consensus                                  *
```

X non conserved
X similar
X ≥ 50% conserved