

logo

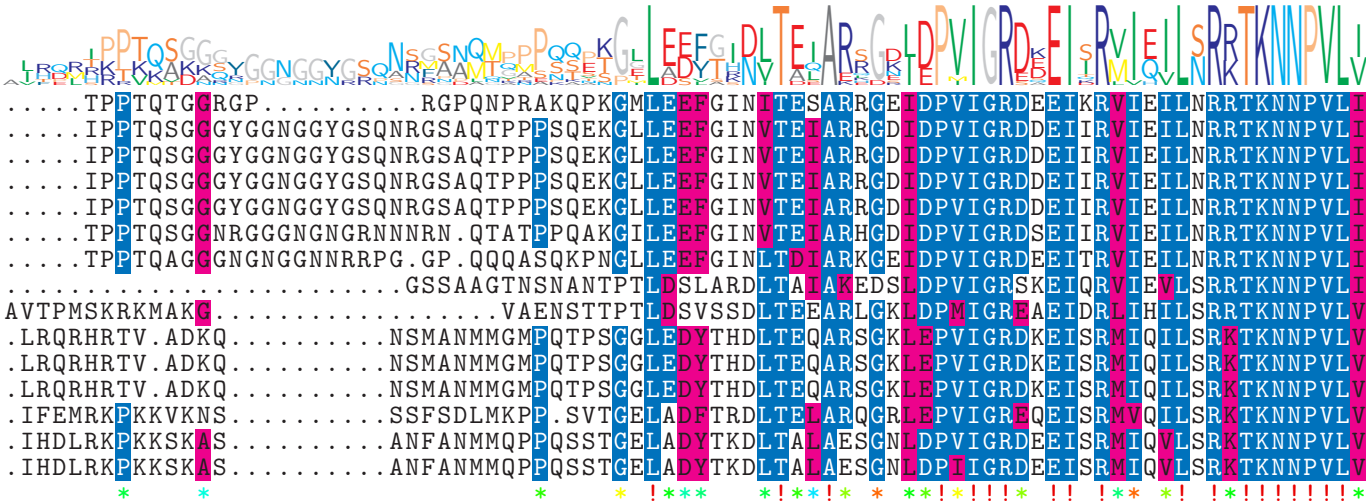
NTDB id 601 KW2 RS02615 WP 021036805.1	MLCQNCNINEA.....TI	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCNKINDS.....TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	MLCQNCNKINDS.....TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	MLCQNCNKINDS.....TI	13
NTDB id 241 SP RS04015 WP 000882523.1	MLCQNCNKINDS.....TI	13
NTDB id 59109 MSA RS02890 WP 016480424.1	MLCQNCNKINES.....TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCNKINEA.....TI	13
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGGIAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLAAMATTSGSIAYSLLAGMNVDSDDLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN..DI	79
NTDB id 297 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFLTWHVLLAMVEVTPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLSESDII	81
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLTWHVLLAMVEVTPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLSESDII	81
consensus	**.....**	

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	HLYTSVNGCQKKQIDLCQNCYQI...MKSQGGQEALEFGAGNASNGNSDEP.....FNPFNDIFSALQGG.QDFNGAASNQ	81
NTDB id 281 KZH43 RS03550 WP 000882517.1	HLYTNLNGCKKQKIDLCQNCYKI...IKTDPNNSLFKGMTDLNRR..DF.....DPFGDFFNDLNNFRPSS..NTPP	77
NTDB id 245 SPD RS03860 WP 000882517.1	HLYTNLNGCKKQKIDLCQNCYKI...IKTDPNNSLFKGMTDLNRR..DF.....DPFGDFFNDLNNFRPSS..NTPP	77
NTDB id 243 SPR RS03635 WP 000882517.1	HLYTNLNGCKKQKIDLCQNCYKI...IKTDPNNSLFKGMTDLNRR..DF.....DPFGDFFNDLNNFRPSS..NTPP	77
NTDB id 241 SP RS04015 WP 000882523.1	HLYTNLNGCKKQKIDLCQNCYKI...IKTDPNNSLFKGMTDLNRR..DF.....DPFGDFFNDLNNFRPSS..NTPP	77
NTDB id 59109 MSA RS02890 WP 016480424.1	HLYTNVNGCKKQKQVLDLCQNCYQI...IKTDPNNPLFESGLNHVSHAPGGV.....NPFFDDFFGDLNNFRFANGQDLPN	82
NTDB id 378 SMU RS02690 WP 002263569.1	HLYANVNGCQKKQIDLCQNCYQI...MKTDPENGPLNHL SQ..QNSSSI.....NPFFDDFFGDLNNFRFANGQDLPN	80
NTDB id 85 BSU 00860 NP 387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LGSNET....	147
NTDB id 610 V4T04 RS10165 WP 012897346.1	STLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLLKL.....QKINIVSLRKELEKRTGLKVPESKK	153
NTDB id 290 KZH43 RS10025 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 289 SPD RS10700 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 287 SP RS11210 WP 001109712.1	TELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 377 SMU RS09275 WP 002262344.1	MLLEQSHALKRITLAAAAISQVTHAKEVGTTEHVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVIERYAGFSKEDIKA	164
NTDB id 297 STER RS00545 WP 011680614.1	DLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMAFLLHKDLMVCRILLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB id 329 STU RS10020 WP 011225298.1	DLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLHKDLMVCRILLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
consensus	* * * * * * * * * * * * * *	

logo

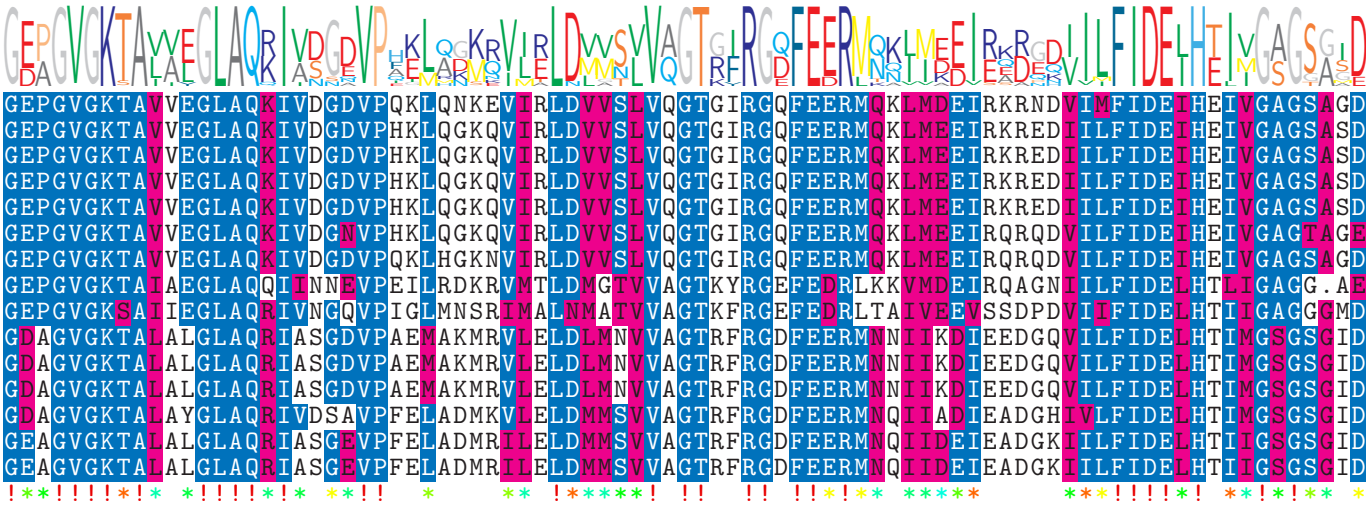
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 59109 MSA RS02890 WP 016480424.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



151
157
157
157
157
161
158
207
220
233
233
233
237
240
240

logo

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 59109 MSA RS02890 WP 016480424.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



236
242
242
242
242
246
243
291
305
318
318
318
322
325
325

```

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 59109 MSA RS02890 WP 016480424.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```



```

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 59109 MSA RS02890 WP 016480424.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```



logo

```

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 59109 MSA RS02890 WP 016480424.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```

Sequence	Score
EVTTDEDMPTVITEKDIIEQIVEEKTQIPVGD LKEKE EQTQLINLAD DLKA HVIGQDEAVDKISKAIRRSRVGLGKPNRPIGSFLFVGP	482
KITDQDTP I IESEKTIIEHIIIEQKTNIPVGD LKEKE EQSQLIHLAED LKSH VIGQDDAVDKIAKAIRNRNVGLGTPNRPIGSFLFVGP	488
KITDQDTP I IESEKTIIEHIIIEQKTNIPVGD LKEKE EQSQLIHLAED LKSH VIGQDDAVDKIAKAIRNRNVGLGTPNRPIGSFLFVGP	488
KITDQDTP I IESEKTIIEHIIIEQKTNIPVGD LKEKE EQSQLIHLAED LKSH VIGQDDAVDKIAKAIRNRNVGLGTPNRPIGSFLFVGP	488
KITDQDTPS I IESEKTIIEHIIIEQKTNIPVGD LKEKE EQSQLIHLAED LKSH VIGQDDAVDKIAKAIRNRNVGLGTPNRPIGSFLFVGP	488
KVDDQDTP I ITEKTIIEHIIIEEKTNPVGD LKEKE EQSQLINLAD DLKQ HVIGQDDAVIKIAKAIRNRNVGLGSPNRPIGSFLFVGP	492
KLDKENTPTVITEKNIIEVIVEEKTNPVGD LKEKE EQSQLIHLAD DLKTR VIGQDAVAVDKIAKAIRNRNVGLGTPNRPIGSFLFVGP	489
EKQGQENSEVTVD I AMVVS SSWTG VPVSKIAQTETDKLLNENILHSRVIGQDEAVVAVAKAVRRARAGLKDKPKRPIGSFIFLGP	546
.VKEDKRQEVTTDQAVVAVASTLTGVPIITQMTKSESDRLINLEKELHKKRVVQEEAISAVSRAIRRRASGVADSRPMGSFMFLGP	555
.VPV.YKDLVTE SD ILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGP	550
.VPV.YKDLVTE SD ILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGP	550
.VPV.YKDLVTE SD ILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGP	550
.PLLKKRAEVK EED ILATLSKLSGIPVKKLTQADSKKYLNLERELHKKRVIGQDDAVSSISRAIRRNQSGIRVGKRPIGSFMFLGP	553
.AKFPKPALVDADQIMQTL SRLSG IPVEKMTQTD SKRYL NLESELHKKRVIGQDEAVSAISRAIRRNQSGIRTKGKRPIGSFMFLGP	556
.AKFPKPALVDADQIMQTL SRLSG IPVEKMTQTD SKRYL NLESELHKKRVIGQDEAVSAISRAIRRNQSGIRTKGKRPIGSFMFLGP	556

logo

```

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SP RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 59109 MSA RS02890 WP 016480424.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```

TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	567
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	573
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	573
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	573
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	573
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	577
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	574
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	631
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	640
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	635
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	635
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	635
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	638
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	641
TGVGKTELAKALAEVLFSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYGVGYEEAGQLTEKVRNKPYSVLLFDEVEKAHPDVFNIML	641

logo



NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVP	748
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKKAIEVKSSEKEK..	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKKAIEVKSSEKEK..	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKKAIEVKSSEKEK..	752
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKKAIEVKSSEKEK..	752
NTDB id 59109 MSA RS02890 WP 016480424.1	IIKSSKKTEESTKG.....	753
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNKVETVTKATSD..	753
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		

- X non conserved
- X similar
- X ≥ 50% conserved