

```

NTDB id 124 BSU 16930 NP 389575.2
NTDB id 462 GPW51 RS00385 WP 012774894.1
NTDB id 1140116 DQM37 RS08535 WP 032459984.1
NTDB id 412 SMU RS09535 WP 002262393.1
NTDB id 170 SP RS09755 WP 000642718.1
NTDB id 280 KZH43 RS08670 WP 000642700.1
NTDB id 205 SPR RS08830 WP 000642700.1
NTDB id 239 SPD RS09270 WP 000642701.1
NTDB id 538 SMSK321 RS11060 WP 000642686.1
NTDB id 510 SM12261 RS08320 WP 000642690.1
consensus

```



```
NTDB id 124 BSU 16930 NP 389575.2
NTDB id 462 GPW51 RS00385 WP 012774894.1
NTDB id 1140116 DQM37 RS08535 WP 032459984.1
NTDB id 412 SMU RS09535 WP 002262393.1
NTDB id 170 SP RS09755 WP 000642718.1
NTDB id 280 KZH43 RS08670 WP 000642700.1
NTDB id 205 SPR RS08830 WP 000642700.1
NTDB id 239 SPD RS09270 WP 000642701.1
NTDB id 538 SMSK321 RS11060 WP 000642686.1
NTDB id 510 SM12261 RS08320 WP 000642690.1
consensus
```



logo

NTDB id 124	BSU 16930 NP 389575.2	LDILENQILDCQTFEGLSLRDFCYGYGEETSLSASIVVEELKRQCKTIAAAESLTAGLFQATVANFSGVSSIFKGGFVTYS	311
NTDB id 462	GPW51 RS00385 WP 012774894.1	LKETEAIVILE.....RVGEFFYGYDD..TSLVKEISIACKEKGITISAAESFTGGLFSEWITDHSKGASKLFAGGVVCIYI	308
NTDB id 1140116	DQM37 RS08535 WP 032459984.1	LNQLEEDILQHD....KLADYFYAYGEDNSLVKTIVATRLAEKRQTIAIVEEQGTGGLLQAELSLALADQPPYFSGGKVVGQ	313
NTDB id 412	SMU RS09535 WP 002262393.1	LGQLEAQLSRKTLLEGQPLADVFYGYGEDNSLARETFELLVYDKTITAAESLTAGLFQSTLASFPGASQVFNNGGFVTYS	308
NTDB id 170	SP RS09755 WP 000642718.1	LDKLEKKIITID....NLADYFYGYGEENSIPQVVFLLLEKCKTITAAESLTAGLFQARLADFA GASDIFKGGFVTYS	312
NTDB id 280	KZH43 RS08670 WP 000642700.1	LDILENQILDCCQTFEGLSLRDFCYGYGEETSLSASIVVEELKRQCKTIAAAESLTAGLFQATVANFSGVSSIFKGGFVTYS	312
NTDB id 205	SPR RS08830 WP 000642700.1	LDILENQILDCCQTFEGLSLRDFCYGYGEETSLSASIVVEELKRQCKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYS	312
NTDB id 239	SPD RS09270 WP 000642701.1	LDILENQILDCCQTFEGLSLRDFCYGYGEETSLSASIVVEELKRQCKTIAAAESLTAGLFQATVANFSGVSSIFEGGFVTYS	312
NTDB id 538	SMSK321 RS11060 WP 000642686.1	LDILENQILGRQTFEGLSLRDLICGYGYGEEASLASIVVEELKQCKTITAAESLTAGLFQATVADFSGASSIFKGGFVTYS	312
NTDB id 510	SM12261 RS08320 WP 000642690.1	LDILENQILGRQTFEGLSLRDLICGYGYGEETSLSASIVVEELKRQCKTITSAESLTAGLFQARVADFSGASSIFKGGFVTYS	312
consensus		!***!***** ******!*****!*****!*****!*****!*****!*****!*****!*****!*****	

logo

NTDB id 124	BSU 16930 NP 389575.2	LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHVPAGTVFIGLAQDQGTEVIKVNIG	391
NTDB id 462	GPW51 RS00385 WP 012774894.1	NIVKQNVLGKKETLDRFGAVSKECASELAKGVQKLTCSDIGISFTGVAGPDAQEGHEPCHVFICISANGKEEVHEFHFA	370
NTDB id 1140116	DQM37 RS08535 WP 032459984.1	LGIE.....SGWLS.EEADCIHQELQADLGLAVSVLIKPESTEDNVLAQVYLTATPSGISQKEIDL	393
NTDB id 412	SMU RS09535 WP 002262393.1	MEEKAKMIGIPLEETKSHGVVSAYTAGMAEQARLLTGADICVSLTGVAGPDMLEEQPAGTVFIGLATQNKVESIKVLTIS	388
NTDB id 170	SP RS09755 WP 000642718.1	IEEKARMLGIPFEDLQLHGVVSAFTA EKMAERSRQLTQADLAISLTGVAGPDSLECGQPAGTVFIGLSSSKRTMAIKVLIG	392
NTDB id 280	KZH43 RS08670 WP 000642700.1	LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHVPAGTVFIGLAQDQGTEVIKVNIG	392
NTDB id 205	SPR RS08830 WP 000642700.1	LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHVPAGTVFIGLAQDQGTEVIKVNIG	392
NTDB id 239	SPD RS09270 WP 000642701.1	LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHVPAGTVFIGLAQDQGTEVIKVNIG	392
NTDB id 538	SMSK321 RS11060 WP 000642686.1	LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHVPAGTVFIGLAQDQGTEVIKVNIG	392
NTDB id 510	SM12261 RS08320 WP 000642690.1	LEEKSRMLDIPAKNLEEHGVVSEFTAQKMAEQARSKTQSDFGISLTGVAGPDSLEGHVPAGTVFIGLAQDQGTEVIKVNIG	392
consensus		***** * *****!*****!*****!*****!*****!*****!*****!*****!*****!*****	

logo

NTDB id 124	BSU 16930 NP 389575.2	GRSRADVRLHIAVMHAFNLVRKALLSD	416
NTDB id 462	GPW51 RS00385 WP 012774894.1	GSRTGTRKRC AKYCHLLKLLLEQ.K...	393
NTDB id 1140116	DQM37 RS08535 WP 032459984.1	GYSWQYLRLACLQAWDFVRNTL.....	423
NTDB id 412	SMU RS09535 WP 002262393.1	GRSRLDVRYIATLHAFNMVRKTLKLENLL	418
NTDB id 170	SP RS09755 WP 000642718.1	GRSRSDVRYI AVLHAFNLVRQTLLSHKNLV	418
NTDB id 280	KZH43 RS08670 WP 000642700.1	GRSRADVRLHIAVMHAFNLVRKALLSD....	418
NTDB id 205	SPR RS08830 WP 000642700.1	GRSRADVRLHIAVMHAFNLVRKALLSD....	418
NTDB id 239	SPD RS09270 WP 000642701.1	GRSRADVRLHIAVMHAFNLVRKALLSD....	418
NTDB id 538	SMSK321 RS11060 WP 000642686.1	GRSRADVRLHIAVMHAFNLVRKALLSD....	418
NTDB id 510	SM12261 RS08320 WP 000642690.1	GRSRADVRLHIAVMHAFNLVRKALLSD....	418
consensus		!*****!*****!*****!*****!*****!*****!*****!*****!*****	

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved