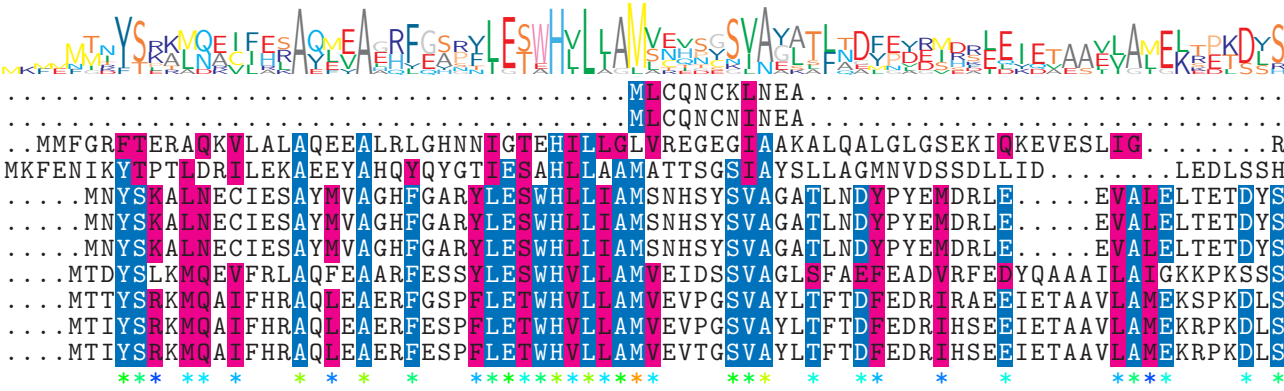


logo

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus



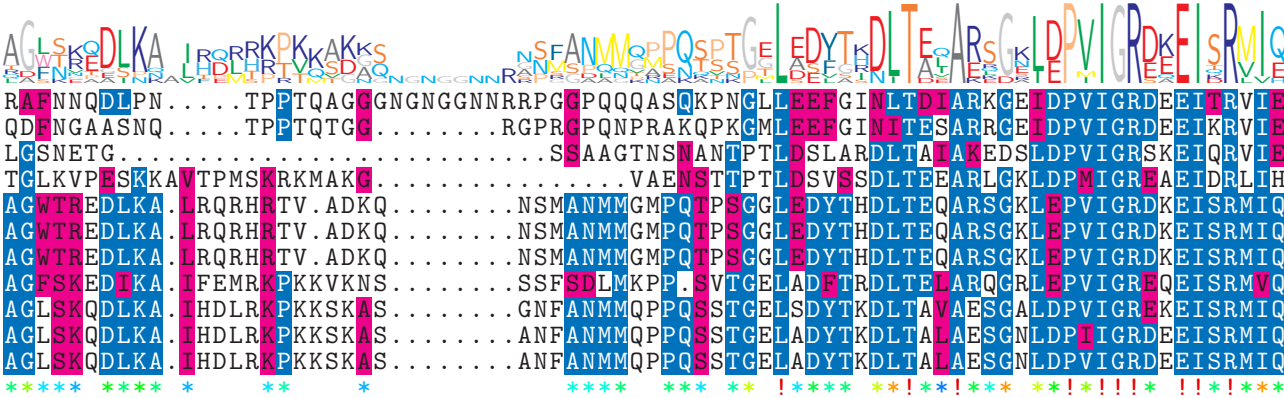
logo

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus



logo

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus



logo

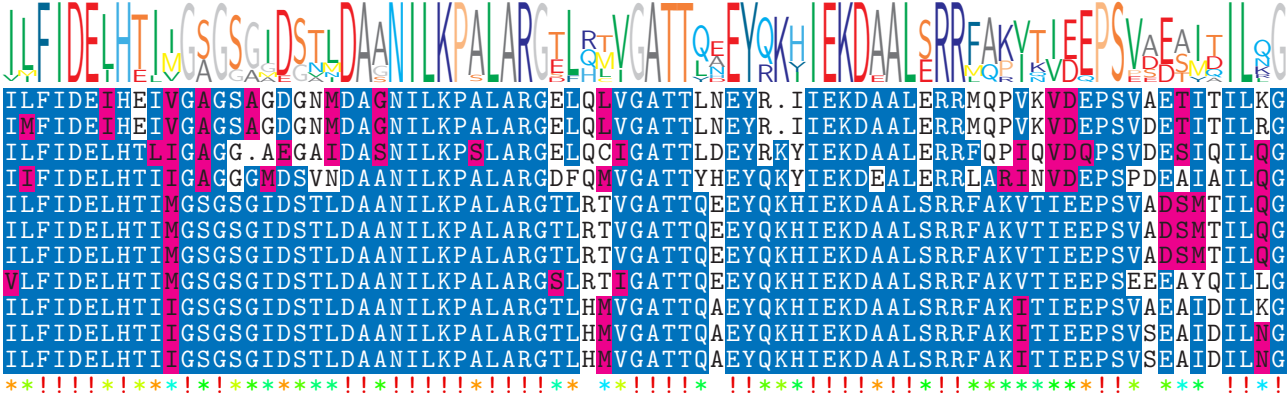
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus



225
218
274
287
300
300
300
304
307
307
307

logo

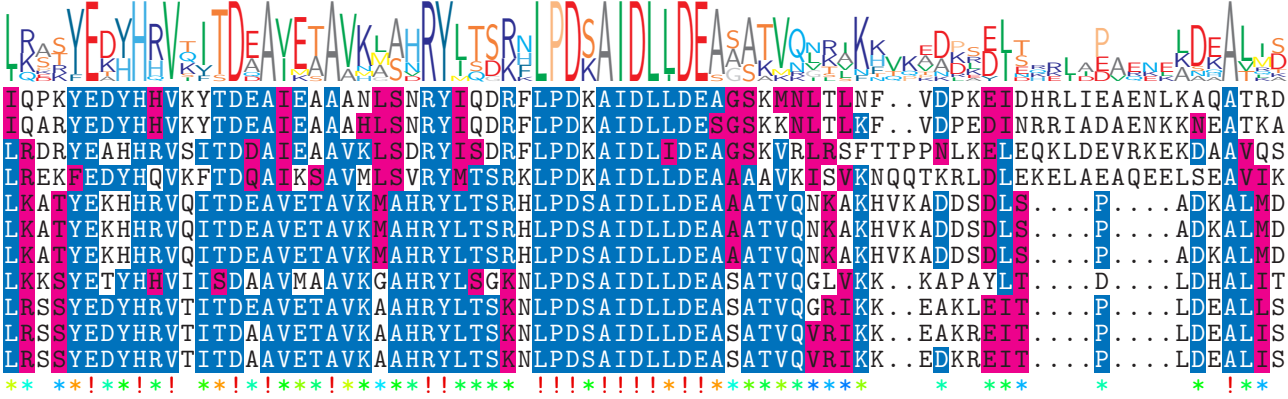
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus



304
297
353
367
380
380
380
384
387
387
387

logo

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus



382
375
433
447
452
452
452
454
457
457
457

```

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

```

```
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus
```

```

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 168708 AWB63 RS00280 WP 022496764.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

```

logo

NTDB id 378 SMU RS02690 WP 002263569.1	GASREG....RTNSVIGELGNFISPEFMNRFDGITIEFQALSKDNLLQIVSLMLDDVNQRLAVNAIHLDTDKVKEKLV	689
NTDB id 601 KW2 RS02615 WP 021036805.1	GAAREG....RTKSVLGQLGDFISPEFMNRFDGITIEFSALSKENLLKIVDLMDEVNEQIGRNDIHLSTQAAKEKLV	682
NTDB id 85 BSU 00860 NP 387967.1	NVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLEIVSLMSDQLTKRLKEQDLSTELTDAAKAKVAE	753
NTDB id 610 V4T04 RS10165 WP 012897346.1	GAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLESQETIEQIVKIMSKSLTKRLAEQDIHVKLTPSAVKLTAE	762
NTDB id 287 SP RS11210 WP 001109712.1	GAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVVFHSLSSDHMQEVVKIMVKPLVASLTEKGIDLKLQASALKLLAN	757
NTDB id 290 KZH43 RS10025 WP 001109677.1	GAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLAN	757
NTDB id 289 SPD RS10700 WP 001109677.1	GAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLAN	757
NTDB id 377 SMU RS09275 WP 002262344.1	GAKSFSQDYKAMESRILEELKKVYRPEFINRIDEKVVVFHNLGQEDIRHIVKIMVAPLIAHLADQGITLKFQPSALKHLAL	760
NTDB id 168708 AWB63 RS00280 WP 022496764.1	GARDISHNNHQMQRIMEELKKAYRPEFINRIDEKVVVFHSLSEELREIVKIMVKPLVSALAEEKGIDLKFQPAALKHLAK	763
NTDB id 329 STU RS10020 WP 011225298.1	GAQTISHNNHQMQRIMEELKKSYRPEFINRIDEKVVVFHSLSEELQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAK	763
NTDB id 297 STER RS00545 WP 011680614.1	GAQTISHNNHQMQRIMEELKKSYRPEFINRIDEKVVVFHSLSEELQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAK	763
consensus	*** ** * *****!*** **!!!!!!*****!! * * **!*!!***** ***** ** ** ** **	

logo

NTDB id 378 SMU RS02690 WP 002263569.1	LYGDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKE.LKAIMTSNGKIVIKASNKVVETVTKATSD....	753
NTDB id 601 KW2 RS02615 WP 021036805.1	LGYNPAMGARPLRRTIQENIEDSIADFYIEHPEYKQ.LVADLIDDKIVISNQTQET...AETTDEEVPAE	748
NTDB id 85 BSU 00860 NP 387967.1	EGVDLEYGARPLRRAIQKHVEDRLSEELLRGNTHKGQHIVLDVEDGEFVVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	VGFDPYEGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV.....	816
NTDB id 287 SP RS11210 WP 001109712.1	QGYDPEMGARPLRRTLQTEVEDKLAELLKGLDVAGSTLKIGVKAGQLKFDIA.....	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	QGYDPEMGARPLRRTLQTEVEDKLAELLKGLDVAGSILKIGVKAGQLKFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	QGYDPEMGARPLRRTLQTEVEDKLAELLKGLDVAGSILKIGVKAGQLKFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	AGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKCLKFDIV.....	813
NTDB id 168708 AWB63 RS00280 WP 022496764.1	DGYDVEMGARPLRRTIQTQVEDKLSSELLGGQVVSQTLKIGCSKDKLTFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	DGYDIEMGARPLRRTIQTQVEDKLSSELLGGQVVSQTLKIGCSKDKLTFTVV.....	816
NTDB id 297 STER RS00545 WP 011680614.1	DGYDIEMGARPLRRTIQTQVEDKLSSELLGGQVVSQTLKIGCSKDKLTFTVV.....	816
consensus	!*****!!!!!!***!* *!!!!***** * ** ** ***** ** * *	

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