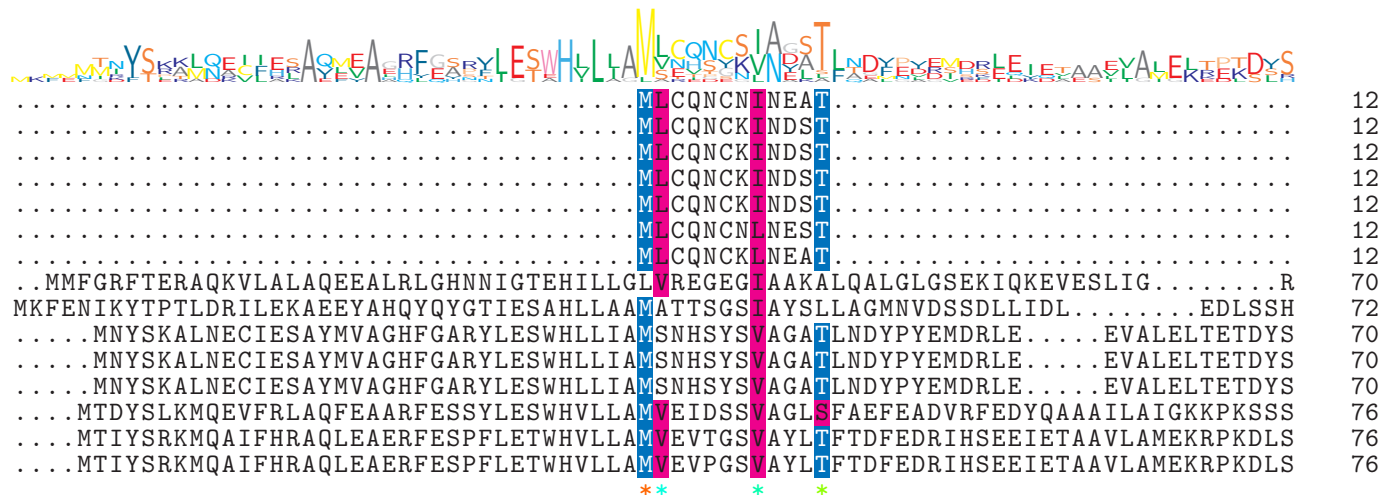


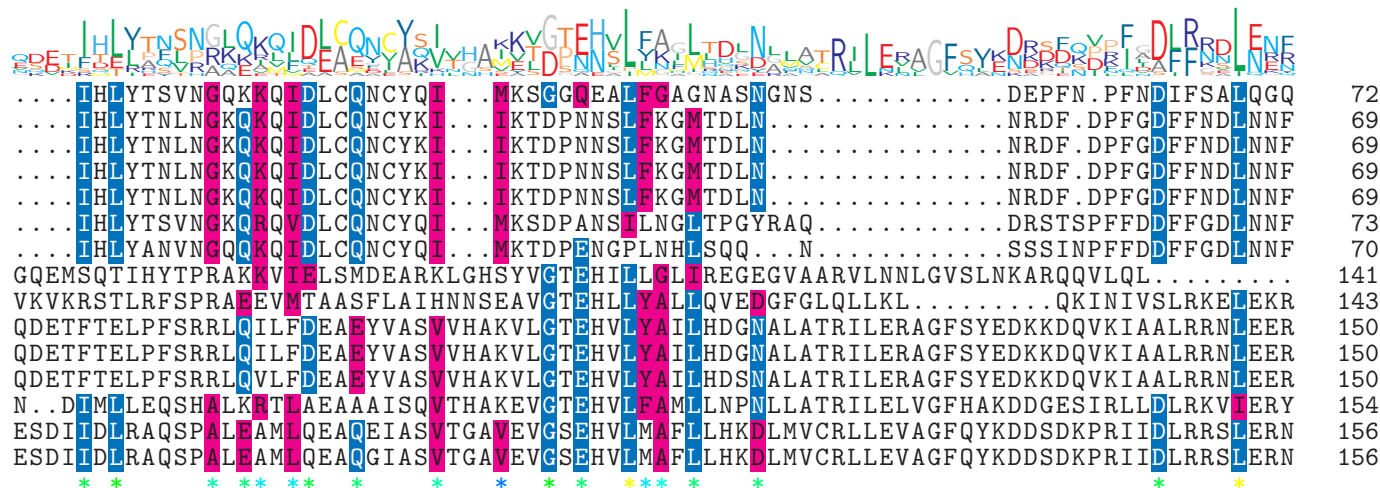
logo

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 978699 MGAS37835 RS06255 WP 010922489.1
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

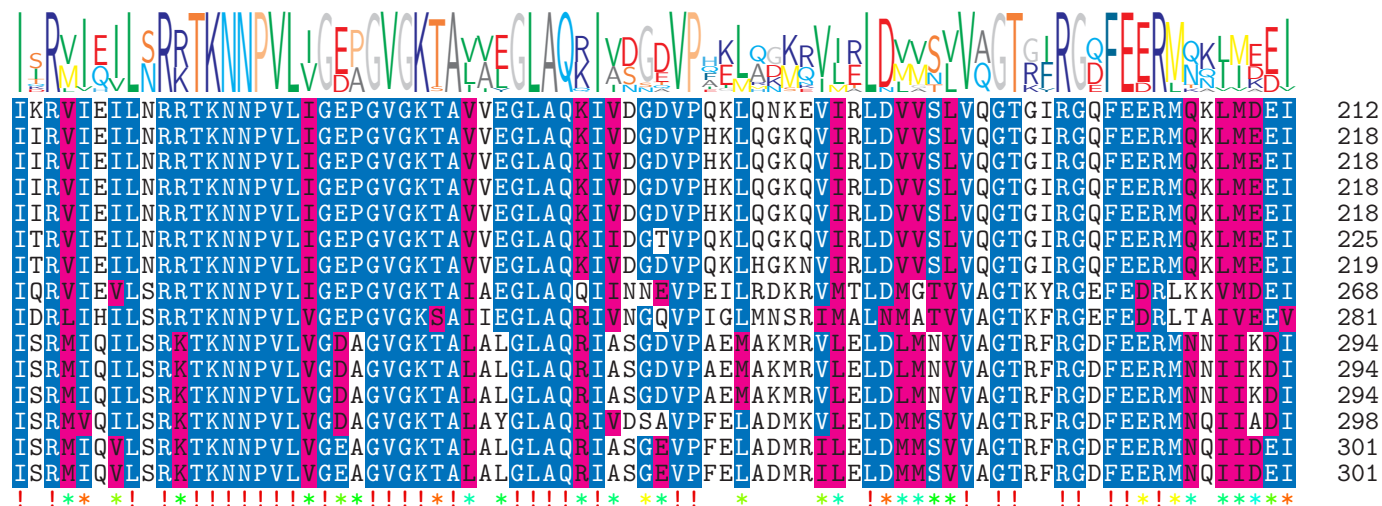
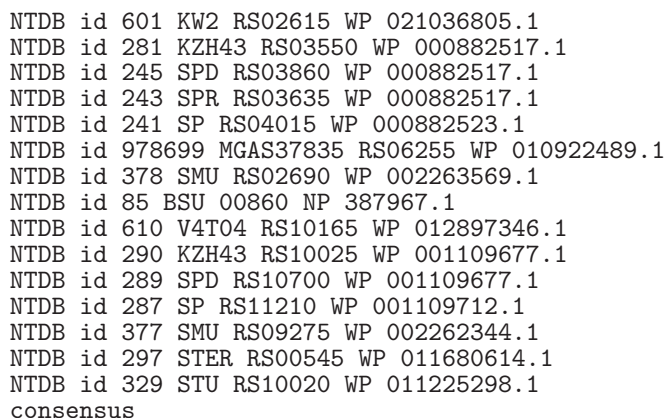
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 978699 MGAS37835 RS06255 WP 010922489.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 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 978699 MGAS37835 RS06255 WP 010922489.1
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

[illegible]

logo

NTDB id	601 KW2 RS02615 WP 021036805.1	ITILRGIQARYEDYHHVKYTDEAIEAAHLSNRYIQDRFLPDKAIDLLDES	GSKMNLTKF..VDPEDINRRIDAENKK	369
NTDB id	281 KZH43 RS03550 WP 000882517.1	ITILKGIQKKYEDYHHVQYTDA AIEAAATLSNRYIQDRFLPDKAIDLLDEAGS	KMNLT LNF..VDPKV IDQRRL IEAENLK	375
NTDB id	245 SPD RS03860 WP 000882517.1	ITILKGIQKKYEDYHHVQYTDA AIEAAATLSNRYIQDRFLPDKAIDLLDEAGS	KMNLT LNF..VDPKV IDQRRL IEAENLK	375
NTDB id	243 SPR RS03635 WP 000882517.1	ITILKGIQKKYEDYHHVQYTDA AIEAAATLSNRYIQDRFLPDKAIDLLDEAGS	KMNLT LNF..VDPKV IDQRRL IEAENLK	375
NTDB id	241 SP RS04015 WP 000882523.1	ITILKGIQKKYEDYHHVQYTDA AIEAAATLSNRYIQDRFLPDKAIDLLDEAGS	KMNLT LNF..VDPKV IDQRRL IEAENLK	375
NTDB id	978699 MGAS37835 RS06255 WP 010922489.1	ITILKGIQPKYEDYHHVKYS P AIEAAHLSNRYIQDRFLPDKAIDLLDEAGS	KMNLT LNF..VDPKE IDKRRL IEAENLK	382
NTDB id	378 SMU RS02690 WP 002263569.1	ITILKGIQPKYEDYHHVKYTDEAIEAAANLSNRYIQDRFLPDKAIDLLDEAGS	KMNLT LNF..VDPKE IDHRRL IEAENLK	376
NTDB id	85 BSU 00860 NP 387967.1	IQILQLGLRD RYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDL I	EAGSKVR LRSFTTPPNL KELE QKL DEVRKEK	427
NTDB id	610 V4T04 RS10165 WP 012897346.1	IATILGGLREKFEDYHQVKFTDQAIKS AVMLSVRYMTSRKLPDKAIDLLDEAAA	VKISVKNQQTKRLDLEKELAE AQEEL	441
NTDB id	290 KZH43 RS10025 WP 001109677.1	MTILQGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDS AIDLLDEAA	T VQNKAHVKA DSDL....S....PA	446
NTDB id	289 SPD RS10700 WP 001109677.1	MTILQGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDS AIDLLDEAA	T VQNKAHVKA DSDL....S....PA	446
NTDB id	287 SP RS11210 WP 001109712.1	MTILQGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDS AIDLLDEAA	T VQNKAHVKA DSDL....S....PA	446
NTDB id	377 SMU RS09275 WP 002262344.1	YQIILGLLKKSYETYHHVII SDA VM AAVKG AHRYLSGNLPDS AIDLLDEAS	ATVQGLVKK..KAPAYL....T...DL	448
NTDB id	297 STER RS00545 WP 011680614.1	IDILNGLRSSYEDYHRVTITDAAVETA VKAAHRYLTSKNLPDS AIDLLDEAS	ATVQVRIKK..EDKREI....T...PL	451
NTDB id	329 STU RS10020 WP 011225298.1	IDILNGLRSSYEDYHRVTITDAAVETA VKAAHRYLTSKNLPDS AIDLLDEAS	ATVQVRIKK..EAKREI....T...PL	451
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 978699 MGA537835 RS06255 WP 010922489.1
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 978699 MGAS37835 RS06255 WP 010922489.1
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 978699 MGAS37835 RS06255 WP 010922489.1
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	KEKLVDLGYNPAMGARPLRRTIQENTEDSLADFYIEHPEYKQL.VADLIDDKIVISNQTQETAETTDDEEVPAE	748
NTDB id 281 KZH43 RS03550 WP 000882517.1	KEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK..	752
NTDB id 245 SPD RS03860 WP 000882517.1	KEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK..	752
NTDB id 243 SPR RS03635 WP 000882517.1	KEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK..	752
NTDB id 241 SP RS04015 WP 000882523.1	KEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK..	752
NTDB id 978699 MGAS37835 RS06255 WP 010922489.1	KEKLVDLGYDPKMGARPLRRTIQDYIEDAITDYYLEHPTEKQL.RALMTNSENITIKAVKEGDSFLNEESL.D	760
NTDB id 378 SMU RS02690 WP 002263569.1	KEKLVDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKEL.KAIMTSNGKIVIKASNKVETVTKATSD..	753
NTDB id 85 BSU 00860 NP 387967.1	KAKVAEEGVLDLEYGARPLRRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKT TAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKLIAEVGEDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSI GASNKKIKIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	LKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDVLVAGSILKIGVKAGQLKFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	LKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDVLVAGSILKIGVKAGQLKFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	LKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDVLVAGSTLKIGVKAGQLKFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	LKHLALAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKLKFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	LKHLAKDGYDIEMGARPLRRTIQTQVEDKLELLGGQVVSGQTLKIGCSKDKLTFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	LKHLAKDGYDIEMGARPLRRTIQTQVEDKLELLGGQVVSGQTLKIGCSKDKLTFTVV.....	816
consensus	* * ! * * * * ! * * * ! * * * * * * * * * * * * * * * * * *	

-  non conserved
-  similar
-  ≥ 50% conserved