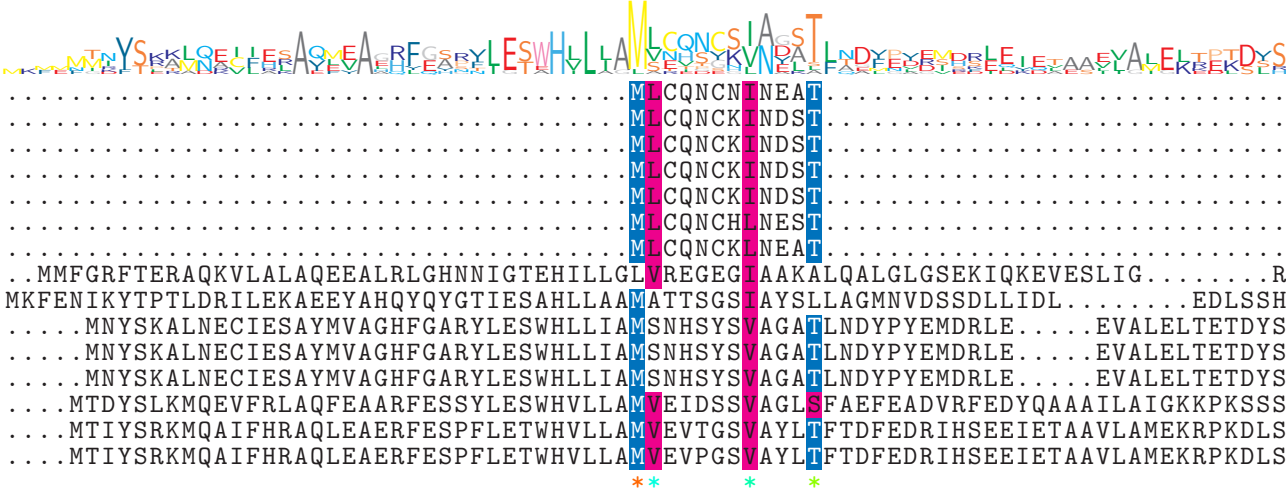


logo

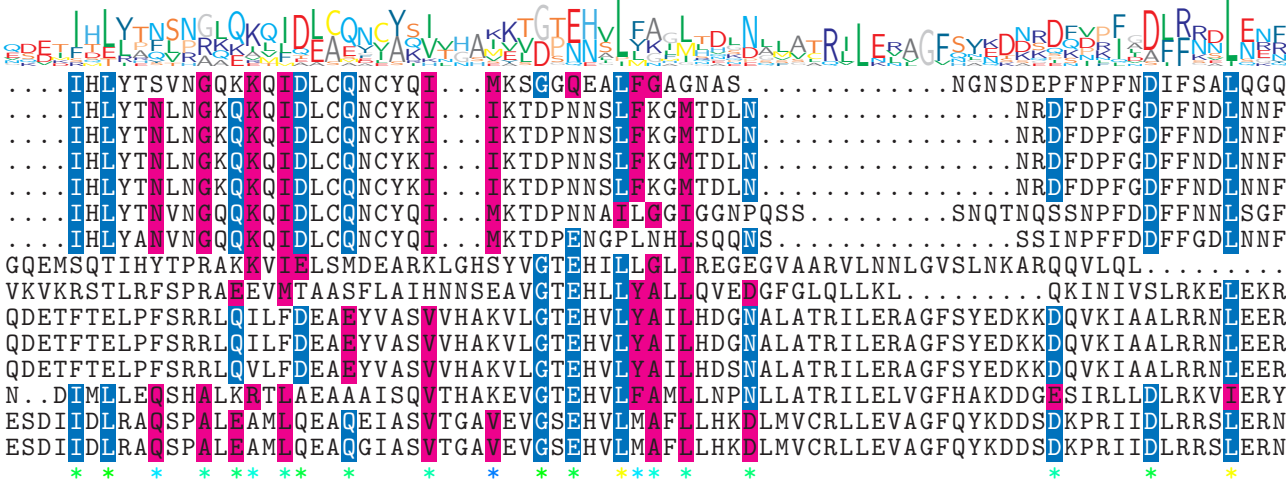
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 1118961 EL020 RS03940 WP 020916383.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 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



12
12
12
12
12
12
12
12
70
72
70
70
70
76
76
76

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 1118961 EL020 RS03940 WP 020916383.1
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



72
69
69
69
69
76
70
141
143
150
150
150
154
156
156

```

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 1118961 EL020 RS03940 WP 020916383.1
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 1118961 EL020 RS03940 WP 020916383.1
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

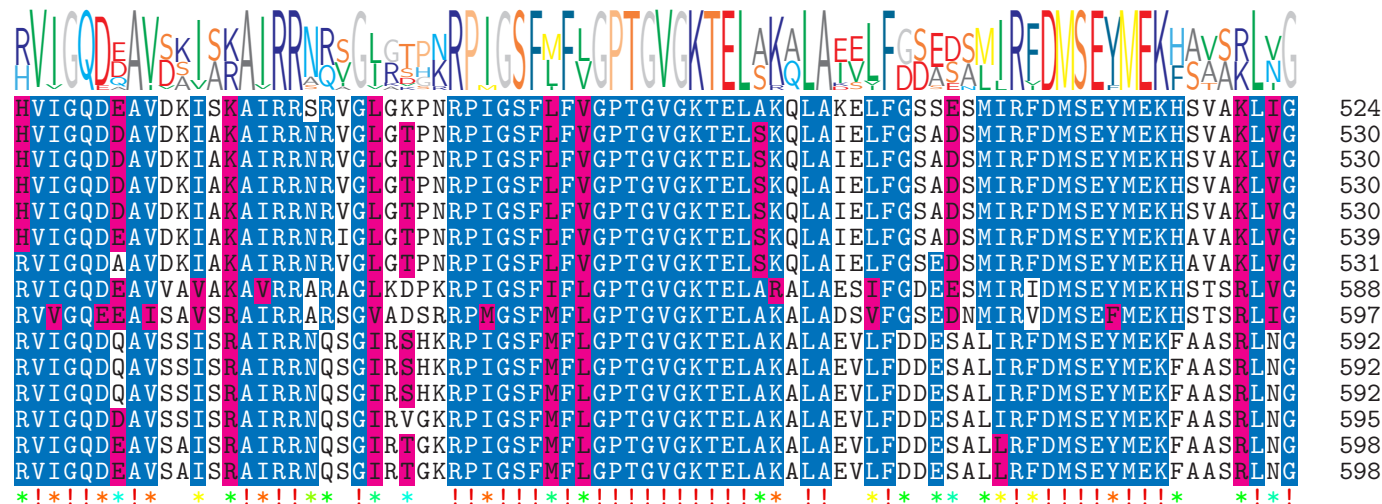
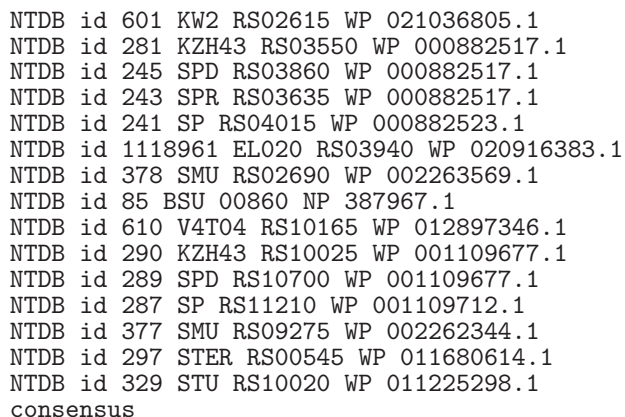
```



```

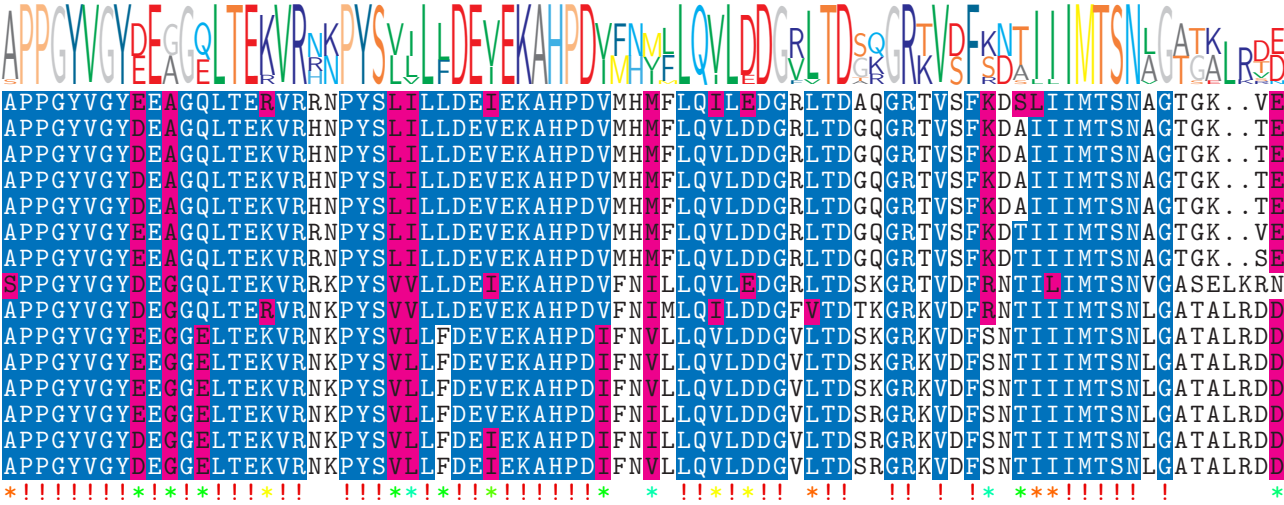
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 1118961 EL020 RS03940 WP 020916383.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 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

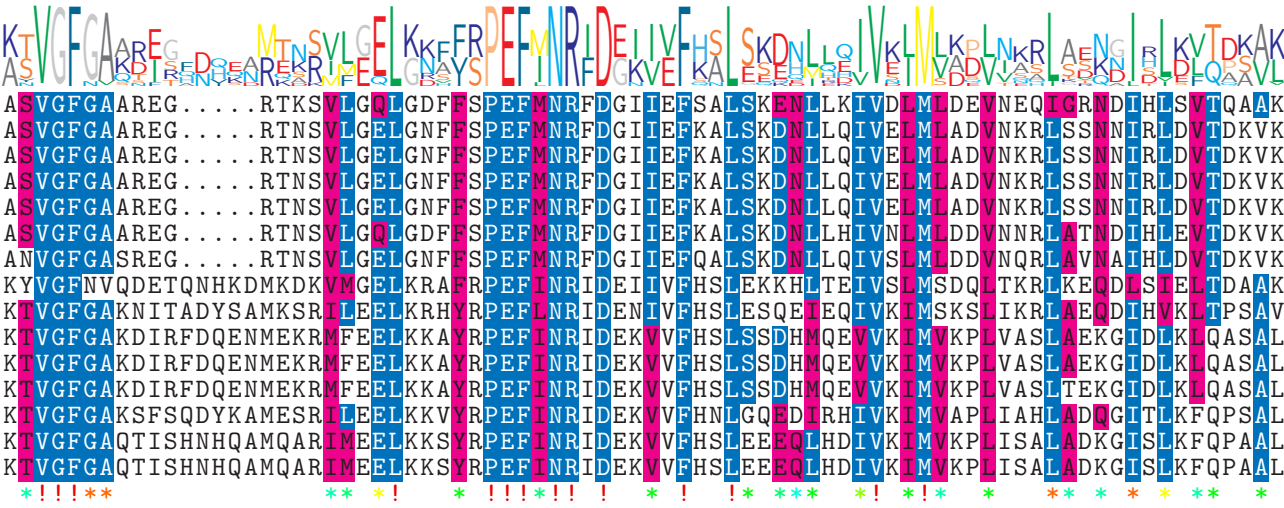
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 1118961 EL020 RS03940 WP 020916383.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 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



602
608
608
608
608
617
609
668
677
672
672
672
675
678
678

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 1118961 EL020 RS03940 WP 020916383.1
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



677
683
683
683
683
692
684
748
757
752
752
752
755
758
758

NTDB id	601	KW2	RS02615	WP	021036805.1	EKLVLDLGYNPAMGARPLRRTTIQENIEDSTADFYIEHPEYKQLVADLIIDDKIVISNQTQ..ETAETTTDEEVPAAE	748
NTDB id	281	KZH43	RS03550	WP	000882517.1	EKLVDLGYDPKMKGARPLRRTIQDYIEDITDYYLENPSEKDL.KAVMTSKGNIIQIKSAKKAEVKSSSEKEK....	752
NTDB id	245	SPD	RS03860	WP	000882517.1	EKLVDLGYDPKMKGARPLRRTIQDYIEDITDYYLENPSEKDL.KAVMTSKGNIIQIKSAKKAEVKSSSEKEK....	752
NTDB id	243	SPR	RS03635	WP	000882517.1	EKLVDLGYDPKMKGARPLRRTIQDYIEDITDYYLENPSEKDL.KAVMTSKGNIIQIKSAKKAEVKSSSEKEK....	752
NTDB id	241	SP	RS04015	WP	000882523.1	EKLVDLGYDPKMKGARPLRRTIQDYIEDITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSSEKEK....	752
NTDB id	1118961	EL020	RS03940	WP	020916383.1	EKLVDLGYDPKMKGARPLRRTIQDHIEDAITDFYLEHPTEKD.L.KAVMTSNGKIIIKSAKKVEKEETVSAAE....	761
NTDB id	378	SMU	RS02690	WP	002263569.1	EKLVDLGYDPKMKGARPLRRTIQEHIEDAITDFYLEHPEQKEL.KAIMTSGNKIIVIKASNKVETVTKATSD....	753
NTDB id	85	BSU	00860	NP	387967.1	AKVAEEGVLDLEYGARPLRRRAIQKHVEDRLSEELLRGNIHKGGHTVLDDVEDGEFVVKT TAKTN.....	810
NTDB id	610	V4T04	RS10165	WP	012897346.1	KLIAEVGFDPPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIIKAIV.....	816
NTDB id	290	KZH43	RS10025	WP	001109677.1	KLLANQGYPDEMGA RPLRRTLQTEVEDKLA ELLL KGD LVAGSI LK IGVK A Q LKF D IA	810
NTDB id	289	SPD	RS10700	WP	001109677.1	KLLANQGYPDEMGA RPLRRTLQTEVEDKLA ELLL KGD LVAGSI LK IGVK A Q LKF D IA	810
NTDB id	287	SP	RS11210	WP	001109712.1	KLLANQGYPDEMGA RPLRRTLQTEVEDKLA ELLL KGD LVAGST LK IGVK A Q LKF D IA	810
NTDB id	377	SMU	RS09275	WP	002262344.1	KHLALA GYDAEMGA RPLRRTLQTEVEDKLA ELIL SGKL ASGQT LK IG IQ KE KL KF DI V	813
NTDB id	297	STER	RS00545	WP	011680614.1	KHLAKDGYDIEMGA RPLRRTIQTQVEDKLS ELL LGGQVVSGQT LK IGC SKDKLTFTTVV.....	816
NTDB id	329	STU	RS10020	WP	011225298.1	KHLAKDGYDIEMGA RPLRRTIQTQVEDKLS ELL LGGQVVSGQT LK IGC SKDKLTFTTVV.....	816
consensus						* * ! * * * * * ! ! ! ! * * * ! * * ! * * * *	

- X non conserved
- X similar
- X $\geq 50\%$ conserved