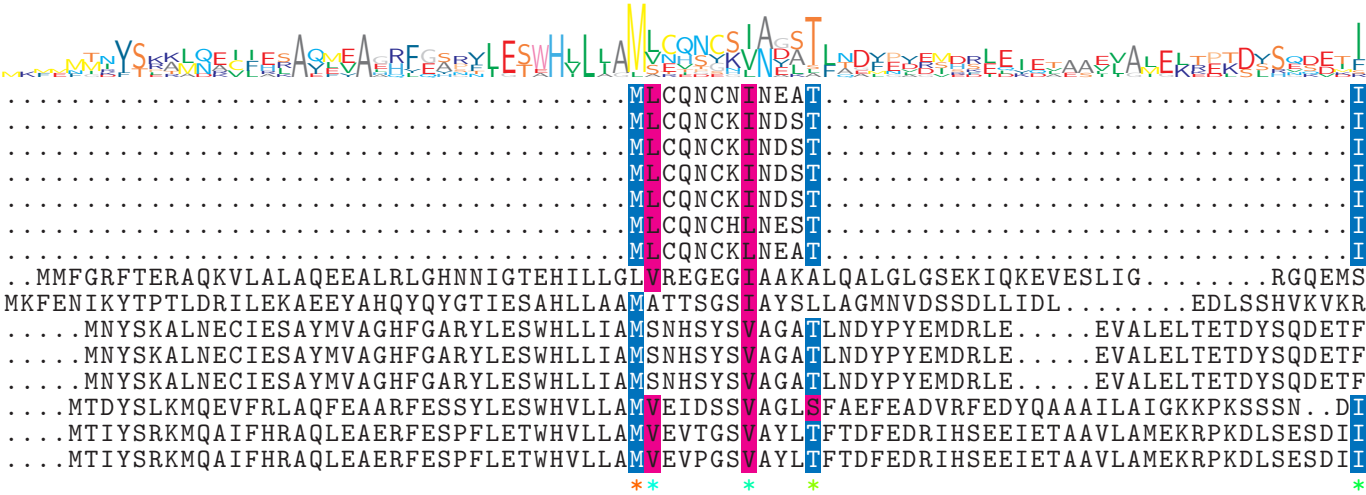


logo

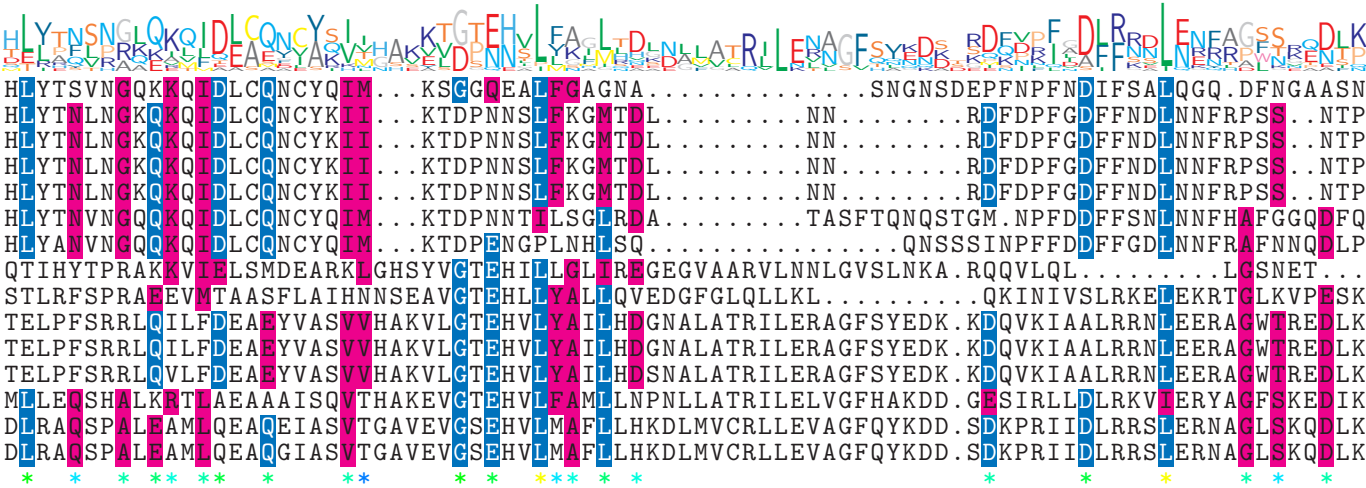
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 20208 SMA 0571 CCF01862.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
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



13
13
13
13
13
13
13
75
77
75
75
75
79
81
81

logo

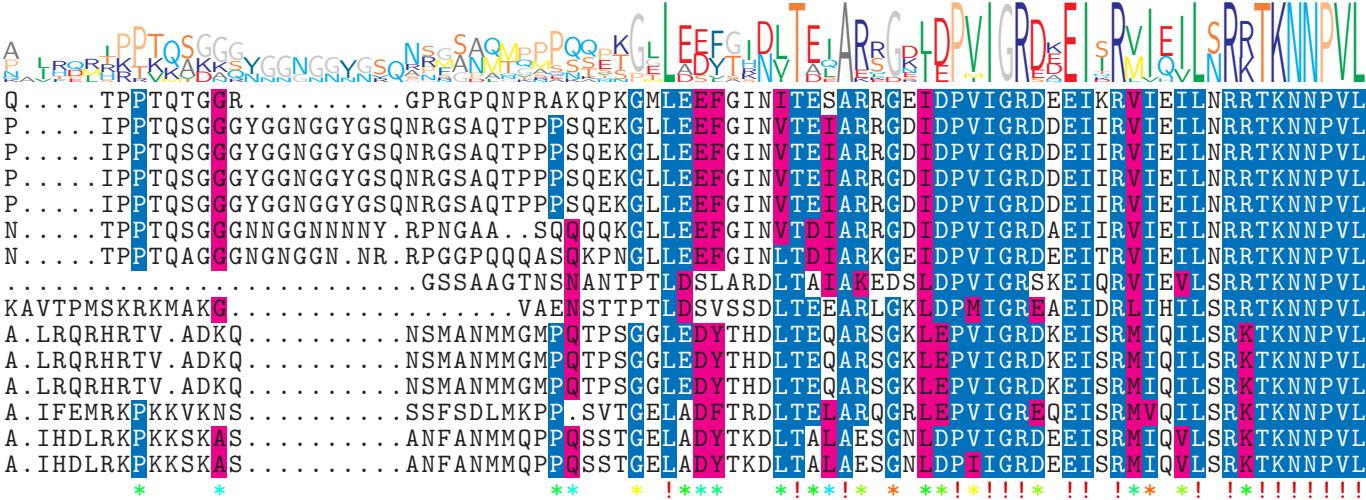
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 20208 SMA 0571 CCF01862.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
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



80
76
76
76
76
85
79
147
152
159
159
159
163
165
165

logo

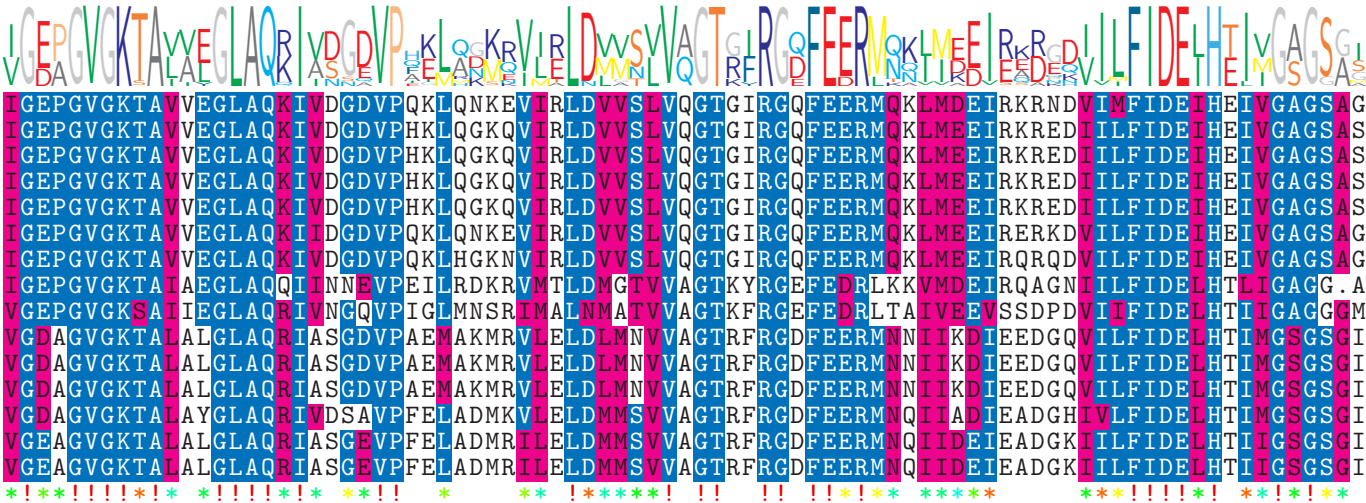
NTDB id	601	KW2	RS02615	WP	021036805.1
NTDB id	281	KZH43	RS03550	WP	000882517.1
NTDB id	245	SPD	RS03860	WP	000882517.1
NTDB id	243	SPR	RS03635	WP	000882517.1
NTDB id	241	SP	RS04015	WP	000882523.1
NTDB id	20208	SMA	0571	CCF01862.1	
NTDB id	378	SMU	RS02690	WP	002263569.1
NTDB id	85	BSU	00860	NP	387967.1
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					



150
156
156
156
156
162
157
206
219
232
232
232
236
239
239

logo

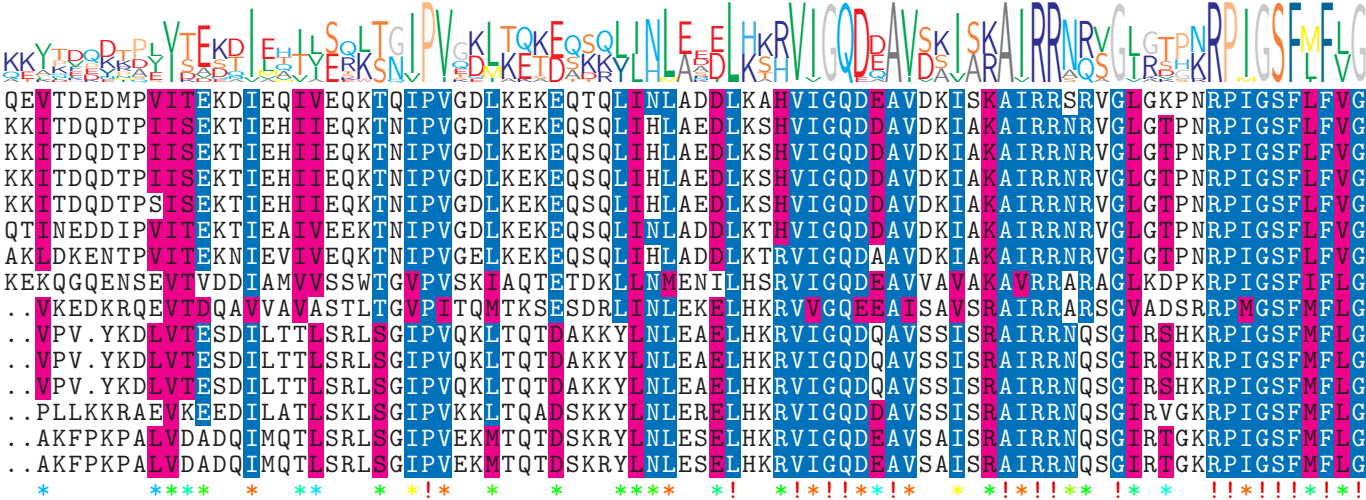
NTDB id	601	KW2	RS02615	WP	021036805.1
NTDB id	281	KZH43	RS03550	WP	000882517.1
NTDB id	245	SPD	RS03860	WP	000882517.1
NTDB id	243	SPR	RS03635	WP	000882517.1
NTDB id	241	SP	RS04015	WP	000882523.1
NTDB id	20208	SMA	0571	CCF01862.1	
NTDB id	378	SMU	RS02690	WP	002263569.1
NTDB id	85	BSU	00860	NP	387967.1
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					



235
241
241
241
241
247
242
290
304
317
317
317
321
324
324

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 20208 SMA 0571 CCF01862.1
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



481
487
487
487
487
493
488
545
554
549
549
549
552
555
555

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 20208 SMA 0571 CCF01862.1
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

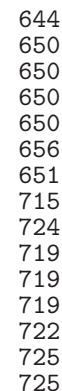


566
572
572
572
572
578
573
630
639
634
634
634
637
640
640

```

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 20208 SMA 0571 CCF01862.1
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

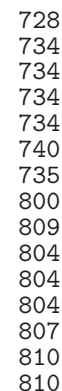
```



```

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 20208 SMA 0571 CCF01862.1
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	.V	I	S	N	Q	T	Q	E	T	T	D	E	E	V	P	A	E	748
NTDB id 281 KZH43 RS03550 WP 000882517.1	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	K	E	752
NTDB id 245 SPD RS03860 WP 000882517.1	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	K	E	752
NTDB id 243 SPR RS03635 WP 000882517.1	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	K	E	752
NTDB id 241 SP RS04015 WP 000882523.1	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	K	E	752
NTDB id 20208 SMA 0571 CCF01862.1	I	I	I	K	S	D	K	K	V	E	K	E	E	T	T	V	S	761
NTDB id 378 SMU RS02690 WP 002263569.1	I	V	I	K	A	S	N	K	V	E	T	V	T	K	A	T	S	753
NTDB id 85 BSU 00860 NP 387967.1	F	V	V	K	T	T	A	K	T	N	.	.	.	.	.	.	.	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	I	K	I	A	Q	I	V	.	.	.	.	.	.	.	.	.	.	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 289 SPD RS10700 WP 001109677.1	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 287 SP RS11210 WP 001109712.1	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 377 SMU RS09275 WP 002262344.1	L	K	F	D	I	V	.	.	.	.	.	.	.	.	.	.	.	813
NTDB id 297 STER RS00545 WP 011680614.1	L	T	F	T	V	V	.	.	.	.	.	.	.	.	.	.	.	816
NTDB id 329 STU RS10020 WP 011225298.1	L	T	F	T	V	V	.	.	.	.	.	.	.	.	.	.	.	816
consensus	*	*																

- ⓧ non conserved
- ⓧ similar
- ⓧ ≥ 50% conserved