

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	MTCQNCMINEA.....	11
NTDB id 281 KZH43 RS03550 WP 000882517.1	MTCQNCKINDS.....	11
NTDB id 245 SPD RS03860 WP 000882517.1	MTCQNCKINDS.....	11
NTDB id 243 SPR RS03635 WP 000882517.1	MTCQNCKINDS.....	11
NTDB id 241 SP RS04015 WP 000882523.1	MTCQNCKINDS.....	11
NTDB id 1131337 H1X63 RS03245 WP 179972782.1	MTCQNCNINEA.....	11
NTDB id 378 SMU RS02690 WP 002263569.1	MTCQNCKINEA.....	11
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGGTAAKALQALGLGSEKIQKEVESLIG.....R	70
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAEYYAHQYQYGTIESAHLAAMATTSGSLAYSLLAGMNVDSDDLIDL.....EDLSSH	72
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRVFEDYQAAAILAIGKKPKSSS	76
NTDB id 297 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFLWTWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLWTWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
consensus	**.....*	

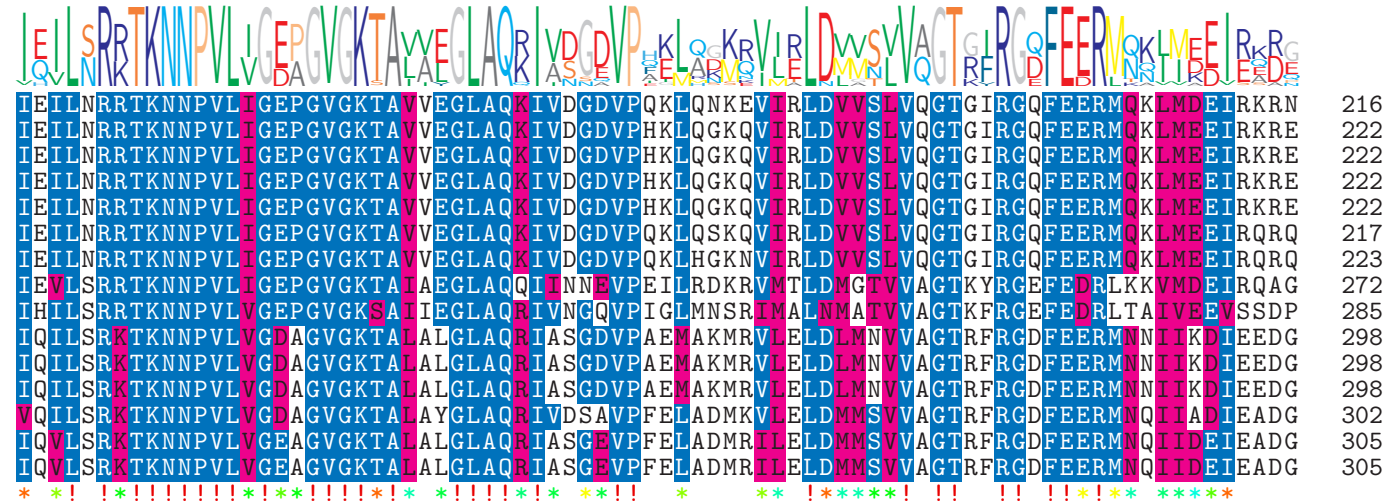
logo

NTDB id 601 KW2 RS02615 WP 021036805.1	...TIHLYTSVNCQKKQIDLCQNCYQI...MKSQGEALFGAGNASMNGSDEPFNP.....FNDIFSALQGGQ	72
NTDB id 281 KZH43 RS03550 WP 000882517.1	...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNMRDFDP.....FGDFFNDLNNF	69
NTDB id 245 SPD RS03860 WP 000882517.1	...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNMRDFDP.....FGDFFNDLNNF	69
NTDB id 243 SPR RS03635 WP 000882517.1	...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNMRDFDP.....FGDFFNDLNNF	69
NTDB id 241 SP RS04015 WP 000882523.1	...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNMRDFDP.....FGDFFNDLNNF	69
NTDB id 1131337 H1X63 RS03245 WP 179972782.1	...SIHLYTNVNCNQQQVDLCQHCKYI...MKSDPGN.PLN...QFNQAGGSNF.....FDDFFSDLNNF	66
NTDB id 378 SMU RS02690 WP 002263569.1	...TIHLYANVNCQKKQIDLCQNCYQI...MKTDPENGPLNHSQQNSSSINPF.....FDDFFGDLNNF	70
NTDB id 85 BSU 00860 NP 387967.1	GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVCTEHIILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....	141
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKVKRSTLRFSPRAFEVMTAASFLAIHNNSEAVCTEHLIYALLQVEDGFGLQLLKL.....QKINIVSLRKETEK	143
NTDB id 290 KZH43 RS10025 WP 001109677.1	QDETFTTELPFSRRLQILFDEAEYVASV VHAKVLCTEHLVYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER	150
NTDB id 289 SPD RS10700 WP 001109677.1	QDETFTTELPFSRRLQILFDEAEYVASV VHAKVLCTEHLVYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER	150
NTDB id 287 SP RS11210 WP 001109712.1	QDETFTTELPFSRRLQVLFDEAEYVASV VHAKVLCTEHLVYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEER	150
NTDB id 377 SMU RS09275 WP 002262344.1	N..DITMLEQSHALKRTLAEAAAISSQVTHAKEVCTEHLVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVTER	154
NTDB id 297 STER RS00545 WP 011680614.1	ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGESEHVLMAFILHKLDMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN	156
NTDB id 329 STU RS10020 WP 011225298.1	ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGESEHVLMAFILHKLDMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN	156
consensus	** * * * * * * * * * * * * *	

```

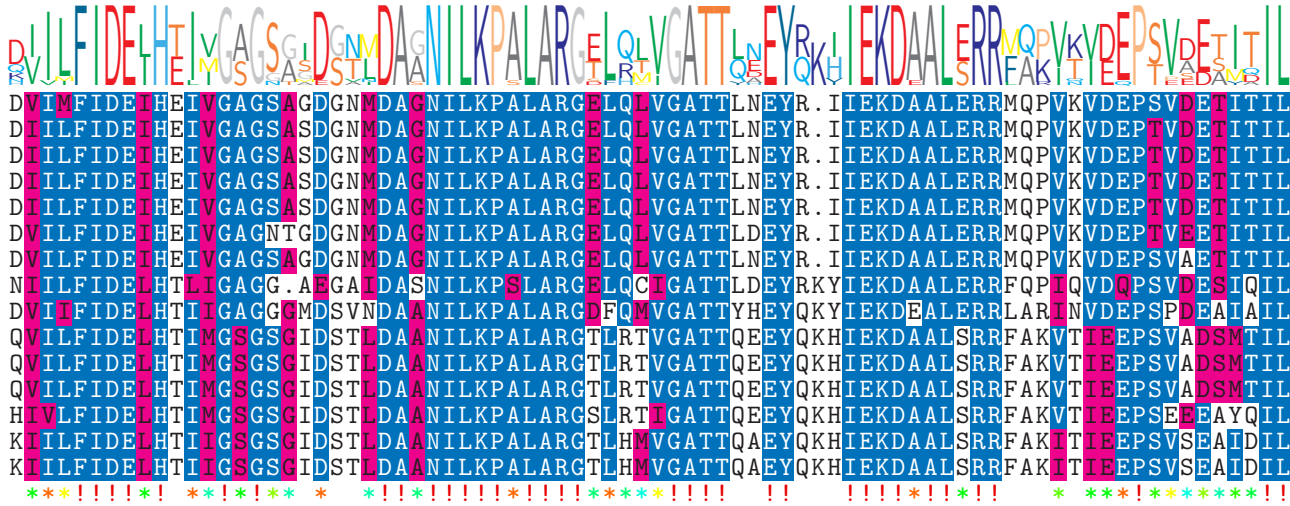
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 1131337 H1X63 RS03245 WP 179972782.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 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	1131337	H1X63	RS03245	WP	179972782.1
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						



295
301
301
301
301
296
302
351
365
378
378
378
382
385
385

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	1131337	H1X63	RS03245	WP	179972782.1
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						



373
379
379
379
379
374
380
431
445
450
450
450
452
455
455

```

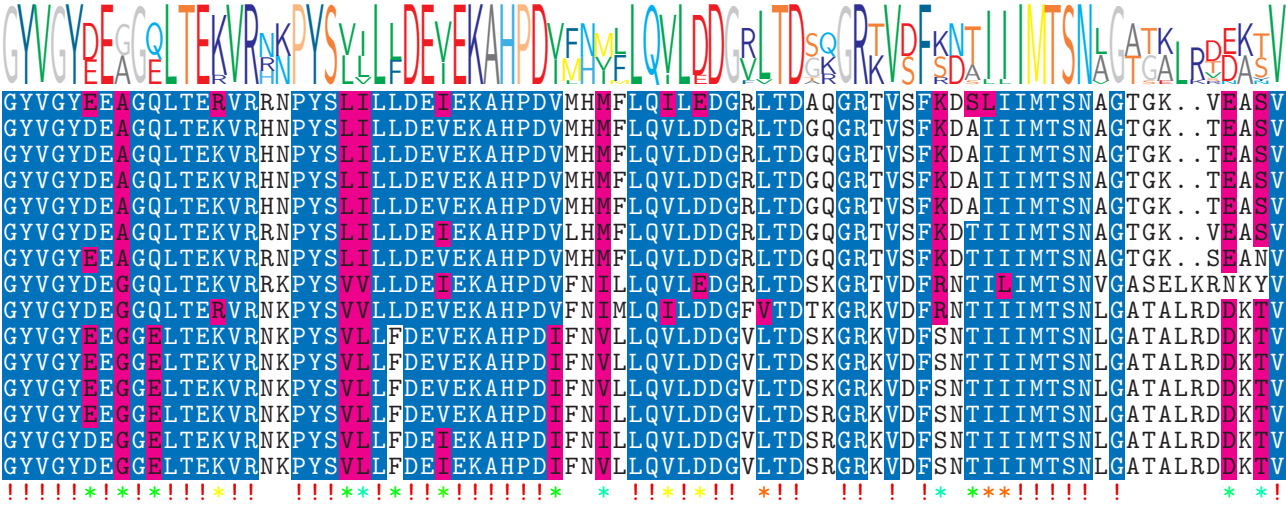
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 1131337 H1X63 RS03245 WP 179972782.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 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 1131337 H1X63 RS03245 WP 179972782.1
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



605
611
611
611
611
606
612
671
680
675
675
675
678
681
681

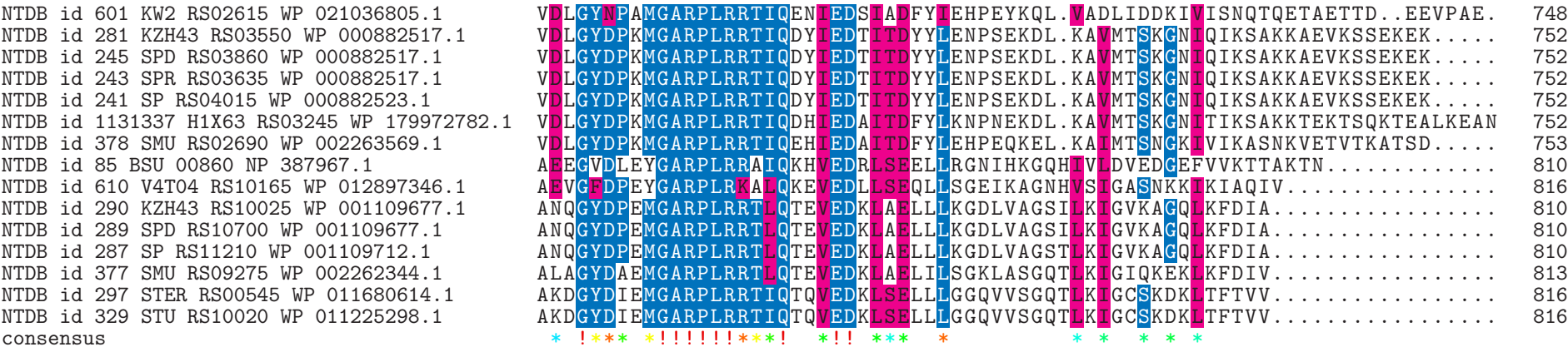
logo

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 1131337 H1X63 RS03245 WP 179972782.1
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



680
686
686
686
686
681
687
751
760
755
755
755
758
761
761

logo



non conserved
 similar
 ≥ 50% conserved