

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 1130493 H0501 RS03155 WP 011225684.1	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	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRFEDYQAAAILAIGKKPKSSS	76
NTDB id 297 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFLWTWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLWTWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
consensus	**.....*	

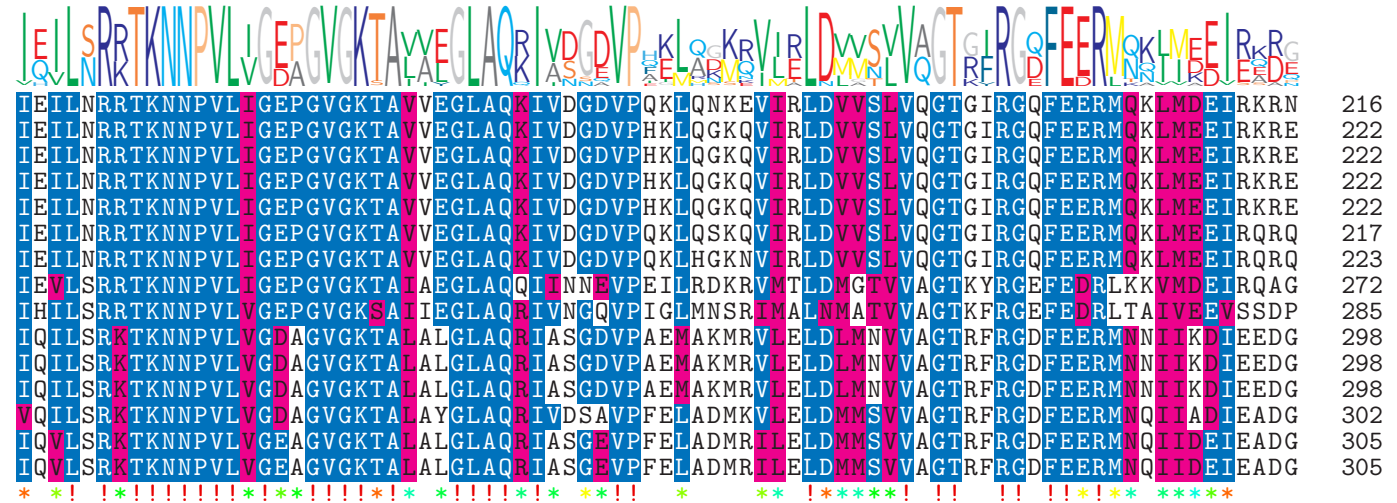
logo

NTDB id 601 KW2 RS02615 WP 021036805.1	...TIHLYTSVNCQKKQIDLCQNCYQI...MKSQGIEALFGAGNASMNGSDEPFNP.....FNDIFSAIQGQ	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 1130493 H0501 RS03155 WP 011225684.1	...SIHLYTNVNCNQQQVDLCQHCKYKI...IKSDPEN.PLN...QFNQAGGSNF.....FDDFFSDLNNF	66
NTDB id 378 SMU RS02690 WP 002263569.1	...TIHLYANVNCQKKQIDLCQNCYQI...MKTDPENGPLNHSQQNSSSINPF.....FDDFFGDLNNF	70
NTDB id 85 BSU 00860 NP 387967.1	GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVCTEHLILGLIREGEGVAARVLNVLGVS LN KARQQVLQL.....	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 1130493 H0501 RS03155 WP 011225684.1
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

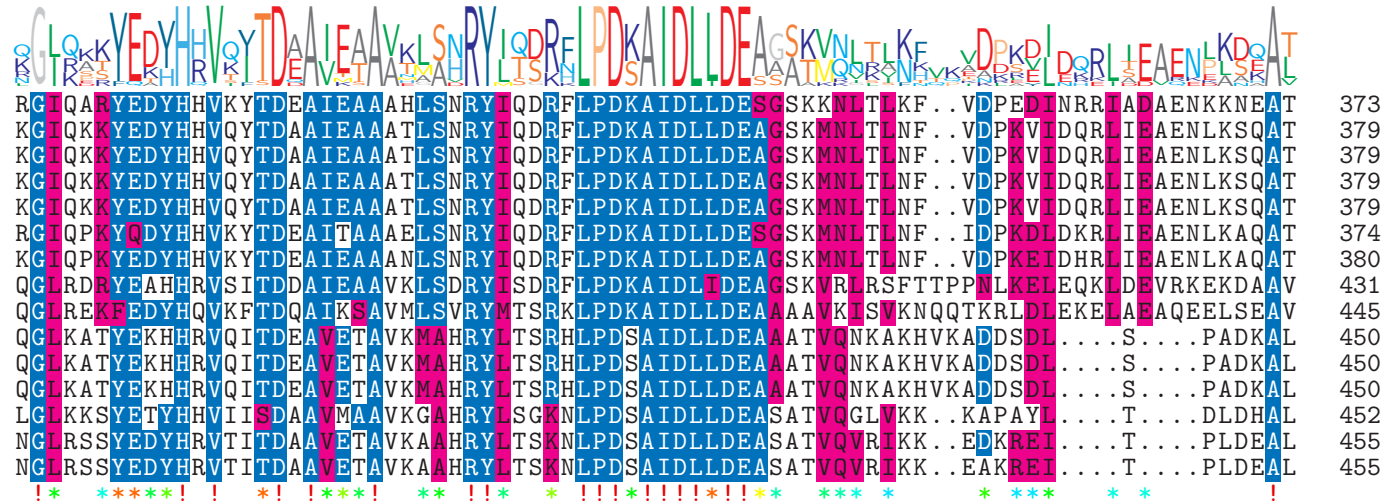
```



```

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 1130493 H0501 RS03155 WP 011225684.1
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

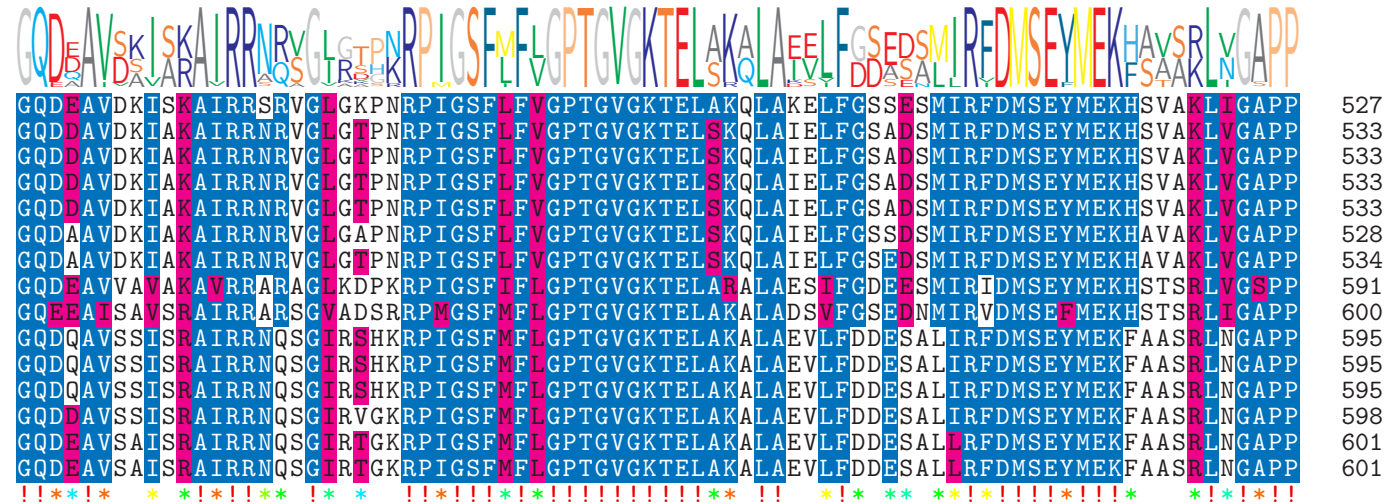
```



```

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 1130493 H0501 RS03155 WP 011225684.1
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

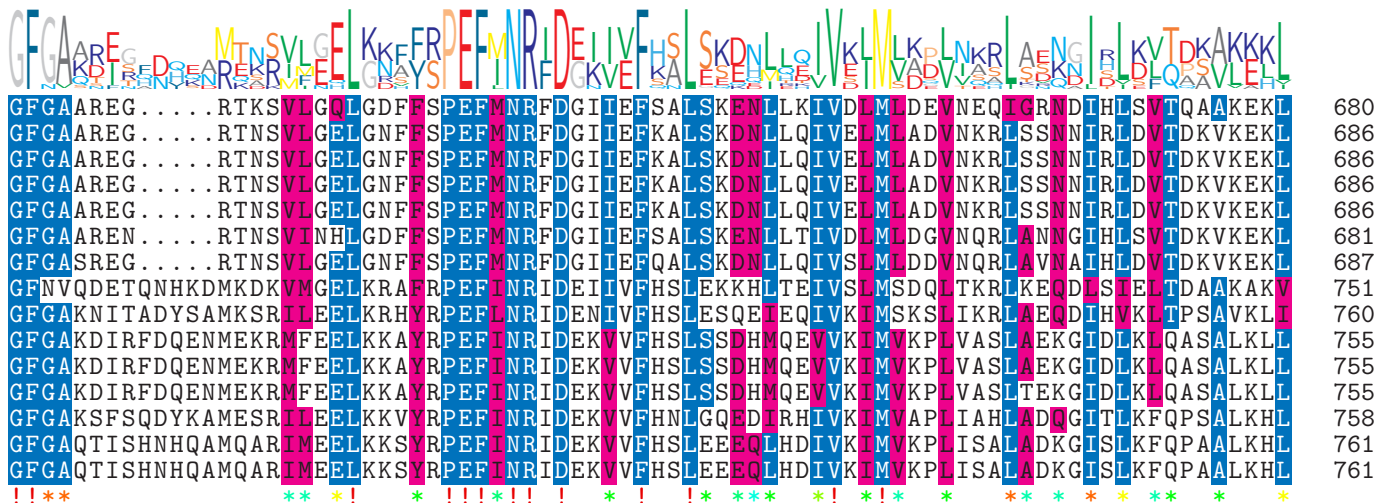
```



```

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 1130493 H0501 RS03155 WP 011225684.1
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	V	D	L	G	Y	N	P	A	M	G	A	R	P	L	R	R	T	I	Q	E	N	I	E	S	I	A	D	F	Y	E	H	P	E	Y	K	Q	L	V	A	D	L	I	D	D	K	I	V	I	S	N	Q	T	Q	E	T	A	E	T	T	D	E	.	E	V	P	A	E	..	748					
NTDB id 281 KZH43 RS03550 WP 000882517.1	V	D	L	G	Y	D	P	K	M	G	A	R	P	L	R	R	T	I	Q	D	Y	I	E	D	T	I	T	D	Y	L	E	N	P	S	E	K	D	L	.	K	A	V	M	T	S	K	G	N	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	K	E	K		752						
NTDB id 245 SPD RS03860 WP 000882517.1	V	D	L	G	Y	D	P	K	M	G	A	R	P	L	R	R	T	I	Q	D	Y	I	E	D	T	I	T	D	Y	L	E	N	P	S	E	K	D	L	.	K	A	V	M	T	S	K	G	N	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	K	E	K		752						
NTDB id 243 SPR RS03635 WP 000882517.1	V	D	L	G	Y	D	P	K	M	G	A	R	P	L	R	R	T	I	Q	D	Y	I	E	D	T	I	T	D	Y	L	E	N	P	S	E	K	D	L	.	K	A	V	M	T	S	K	G	N	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	K	E	K		752						
NTDB id 241 SP RS04015 WP 000882523.1	V	D	L	G	Y	D	P	K	M	G	A	R	P	L	R	R	T	I	Q	D	Y	I	E	D	T	I	T	D	Y	L	E	N	P	S	E	K	D	L	.	K	A	V	M	T	S	K	G	N	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	K	E	K		752						
NTDB id 1130493 H0501 RS03155 WP 011225684.1	V	D	L	G	Y	D	P	K	M	G	A	R	P	L	R	R	T	I	Q	D	H	I	E	D	A	I	T	D	F	Y	L	K	N	P	N	E	K	D	L	.	K	A	V	M	T	S	K	G	H	I	T	I	K	S	A	K	K	T	E	K	T	S	Q	K	T	E	A	L	K	E	V	N		752
NTDB id 378 SMU RS02690 WP 002263569.1	V	D	L	G	Y	D	P	K	M	G	A	R	P	L	R	R	T	I	Q	E	H	I	E	D	A	I	T	D	F	Y	L	E	H	P	E	Q	K	E	L	.	K	A	I	M	T	S	N	G	K	I	V	I	K	A	S	N	K	V	E	T	V	T	K	A	T	S	D		753					
NTDB id 85 BSU 00860 NP 387967.1	A	E	E	G	V	D	L	E	Y	G	A	R	P	L	R	R	A	I	Q	K	H	V	E	D	R	L	S	E	E	L	L	R	G	N	I	H	K	G	Q	H	I	V	L	D	V	E	D	C	E	F	V	V	K	T	T	A	K	T	N		810													
NTDB id 610 V4T04 RS10165 WP 012897346.1	A	E	V	G	F	D	P	E	Y	G	A	R	P	L	R	R	A	I	Q	K	E	V	E	D	L	S	E	E	L	L	S	G	E	I	K	A	G	N	H	V	S	I	G	A	S	N	K	I	K	I	A	Q	I	V		816																		
NTDB id 290 KZH43 RS10025 WP 001109677.1	A	N	Q	G	Y	D	P	E	M	G	A	R	P	L	R	R	T	I	Q	T	E	V	E	D	K	L	A	E	L	L	L	K	G	D	L	V	A	G	S	I	L	K	I	G	V	K	A	Q	L	K	F	D	I	A		810																		
NTDB id 289 SPD RS10700 WP 001109677.1	A	N	Q	G	Y	D	P	E	M	G	A	R	P	L	R	R	T	I	Q	T	E	V	E	D	K	L	A	E	L	L	L	K	G	D	L	V	A	G	S	I	L	K	I	G	V	K	A	Q	L	K	F	D	I	A		810																		

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