

logo

NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCKLINEA.....	11
NTDB id 241 SP RS04015 WP 000882523.1	MLCQNCKINDS.....	11
NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCKINDS.....	11
NTDB id 245 SPD RS03860 WP 000882517.1	MLCQNCKINDS.....	11
NTDB id 243 SPR RS03635 WP 000882517.1	MLCQNCKINDS.....	11
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG.....R	70
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYIPTLDRILEKAEYEAHQYQYGTIESAHLAAMATTSGSIAYSLLAGMNVDSDDLIDL.....EDLSSH	72
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 66015 SMUNUM RS09580 WP 019805516.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSS	76
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSS	76
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLS	76
NTDB id 297 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLS	76
consensus	*** ** * * * **** * ** *	

logo

NTDB id 378 SMU RS02690 WP 002263569.1	...TIHLYANVNGQKQKIDLC.....QNCYQIMKTDPENGLNHLISQ.....QNSSSINPFDDFFFGDLN	68
NTDB id 241 SP RS04015 WP 000882523.1	...TIHLYTNLNGKQKQIDLC.....QNCYKIIKTDPNNSLFKGMTD.....LNNRDFDP.FGDFFNDLN	67
NTDB id 281 KZH43 RS03550 WP 000882517.1	...TIHLYTNLNGKQKQIDLC.....QNCYKIIKTDPNNSLFKGMTD.....LNNRDFDP.FGDFFNDLN	67
NTDB id 245 SPD RS03860 WP 000882517.1	...TIHLYTNLNGKQKQIDLC.....QNCYKIIKTDPNNSLFKGMTD.....LNNRDFDP.FGDFFNDLN	67
NTDB id 243 SPR RS03635 WP 000882517.1	...TIHLYTNLNGKQKQIDLC.....QNCYKIIKTDPNNSLFKGMTD.....LNNRDFDP.FGDFFNDLN	67
NTDB id 85 BSU 00860 NP 387967.1	GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVCTEHLGLIRE.G.EGVAAARVLNNLGVSLNKARQQVLQL.....	141
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKVKRSTLRFSPRAFEVMTAASFIAIHNNSEAVGTEHLLYALLQV.E.DGFGQLLLKL.....QKINTVSLRKELE	141
NTDB id 287 SP RS11210 WP 001109712.1	QDETFTTELPFSRRLQVLFDDEAEYVASVVHAKVLGTEHVLYAILHD.S.NALATRILERAGFSYEDKKDQVKIAALRRNLE	148
NTDB id 290 KZH43 RS10025 WP 001109677.1	QDETFTTELPFSRRLQVLFDDEAEYVASVVHAKVLGTEHVLYAILHD.G.NALATRILERAGFSYEDKKDQVKIAALRRNLE	148
NTDB id 289 SPD RS10700 WP 001109677.1	QDETFTTELPFSRRLQVLFDDEAEYVASVVHAKVLGTEHVLYAILHD.G.NALATRILERAGFSYEDKKDQVKIAALRRNLE	148
NTDB id 66015 SMUNUM RS09580 WP 019805516.1	N..DIMLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLN.P.NLLATRILELVGFHAKDDGESIRLLDLRKKVIE	152
NTDB id 377 SMU RS09275 WP 002262344.1	N..DIMLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLN.P.NLLATRILELVGFHAKDDGESIRLLDLRKKVIE	152
NTDB id 329 STU RS10020 WP 011225298.1	ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLH.K.DLMVCRLLEVAGFYQKDDSDKPRIIDLRRSLE	154
NTDB id 297 STER RS00545 WP 011680614.1	ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLH.K.DLMVCRLLEVAGFYQKDDSDKPRIIDLRRSLE	154
consensus	** * ** * * * * * ***** * * **** *	

logo

NTDB id 378 SMU RS02690 WP 002263569.1	NFRAFNNQDLPN.TPPTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDDEITRVIE	145
NTDB id 241 SP RS04015 WP 000882523.1	NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGIDPVIGRDDEIIRVIE	144
NTDB id 281 KZH43 RS03550 WP 000882517.1	NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGIDPVIGRDDEIIRVIE	144
NTDB id 245 SPD RS03860 WP 000882517.1	NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGIDPVIGRDDEIIRVIE	144
NTDB id 243 SPR RS03635 WP 000882517.1	NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGIDPVIGRDDEIIRVIE	144
NTDB id 85 BSU 00860 NP 387967.1	..LGSNET.....GSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRVIE	194
NTDB id 610 V4T04 RS10165 WP 012897346.1	KRTGLKVPESKKA VTPMSKRKM.....AKG.....VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDRLIH	207
NTDB id 287 SP RS11210 WP 001109712.1	ERAGWTREDLKA.LRQRHRTV.....ADKQNSMANMMGMPQTTPSGGLEDYTHDLTEQARSQKLEPVIGRDKEISRMIQ	220
NTDB id 290 KZH43 RS10025 WP 001109677.1	ERAGWTREDLKA.LRQRHRTV.....ADKQNSMANMMGMPQTTPSGGLEDYTHDLTEQARSQKLEPVIGRDKEISRMIQ	220
NTDB id 289 SPD RS10700 WP 001109677.1	ERAGWTREDLKA.LRQRHRTV.....ADKQNSMANMMGMPQTTPSGGLEDYTHDLTEQARSQKLEPVIGRDKEISRMIQ	220
NTDB id 66015 SMUNUM RS09580 WP 019805516.1	RYAGFSKEDIKA.IFEMRKPKK.....VKNSSSFSDLMKPP.SVTGELADFTRDLTTELARQGRLEPVIGREQEISRMIQ	224
NTDB id 377 SMU RS09275 WP 002262344.1	RYAGFSKEDIKA.IFEMRKPKK.....VKNSSSFSDLMKPP.SVTGELADFTRDLTTELARQGRLEPVIGREQEISRMIQ	224
NTDB id 329 STU RS10020 WP 011225298.1	RNAGLSKQDLKA.IHDLRKPKK.....SKASANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMIQ	227
NTDB id 297 STER RS00545 WP 011680614.1	RNAGLSKQDLKA.IHDLRKPKK.....SKASANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMIQ	227
consensus	* * *** * *	***** * !***** **!*!!* * **!*!!!!* !!*!!*

```

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
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 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 66015 SMUNUM RS09580 WP 019805516.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

```



```

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
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 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 66015 SMUNUM RS09580 WP 019805516.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

```



```

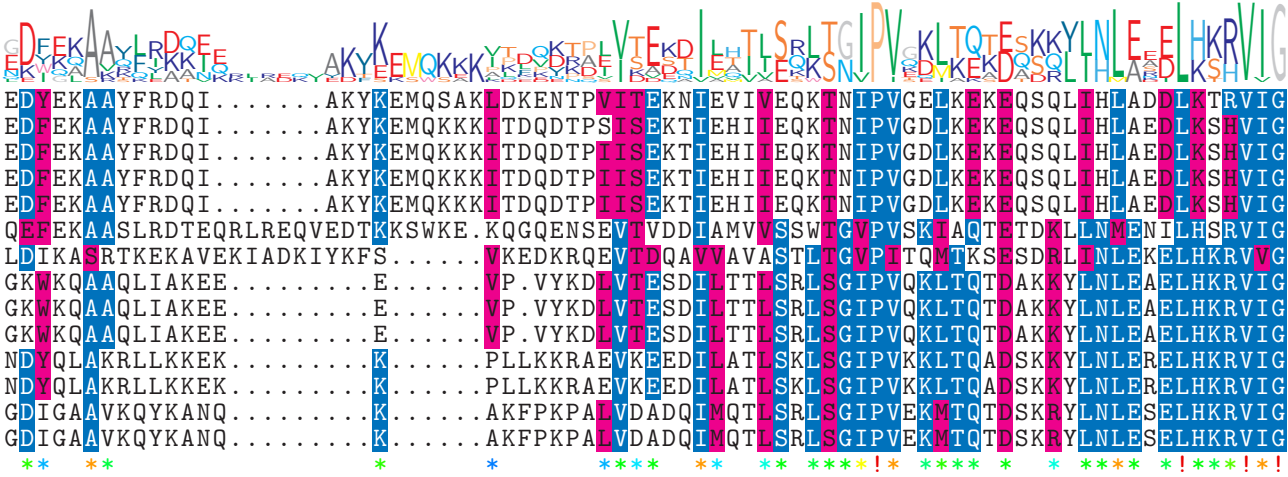
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 66015 SMUNUM RS09580 WP 019805516.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

```



logo

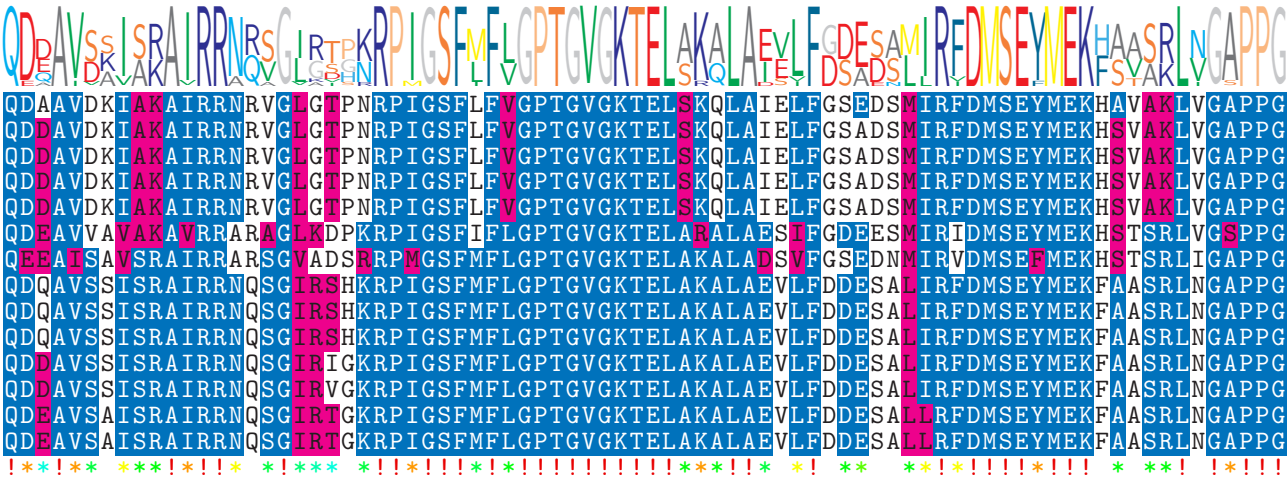
NTDB id	378	SMU	RS02690	WP	002263569.1
NTDB id	241	SP	RS04015	WP	000882523.1
NTDB id	281	KZH43	RS03550	WP	000882517.1
NTDB id	245	SPD	RS03860	WP	000882517.1
NTDB id	243	SPR	RS03635	WP	000882517.1
NTDB id	85	BSU	00860	NP	387967.1
NTDB id	610	V4T04	RS10165	WP	012897346.1
NTDB id	287	SP	RS11210	WP	001109712.1
NTDB id	290	KZH43	RS10025	WP	001109677.1
NTDB id	289	SPD	RS10700	WP	001109677.1
NTDB id	66015	SMUNUM	RS09580	WP	019805516.1
NTDB id	377	SMU	RS09275	WP	002262344.1
NTDB id	329	STU	RS10020	WP	011225298.1
NTDB id	297	STER	RS00545	WP	011680614.1
consensus					



455
454
454
454
454
512
521
516
516
516
519
519
522
522

logo

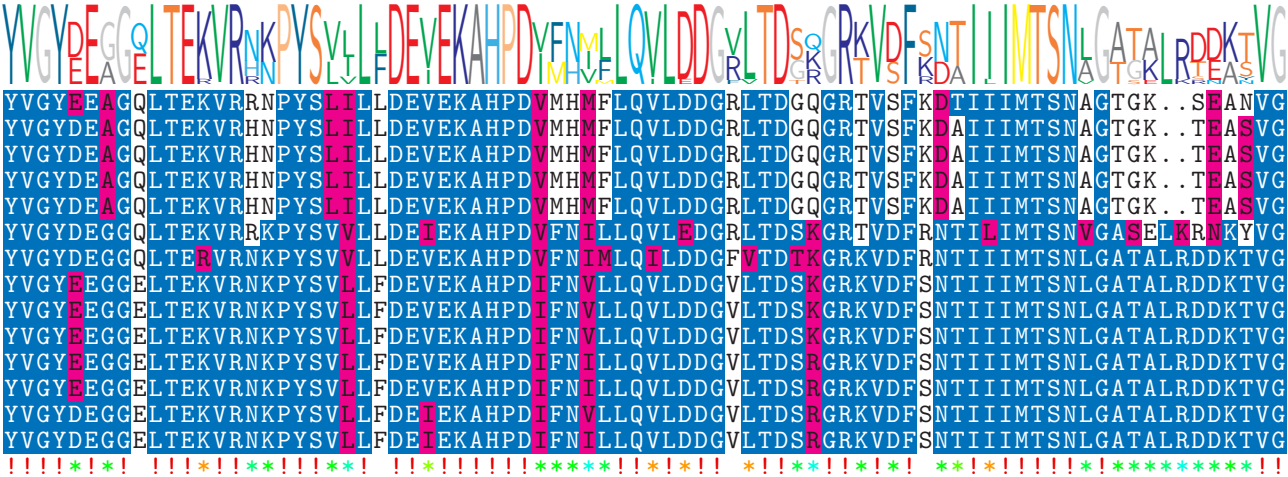
NTDB id	378	SMU	RS02690	WP	002263569.1
NTDB id	241	SP	RS04015	WP	000882523.1
NTDB id	281	KZH43	RS03550	WP	000882517.1
NTDB id	245	SPD	RS03860	WP	000882517.1
NTDB id	243	SPR	RS03635	WP	000882517.1
NTDB id	85	BSU	00860	NP	387967.1
NTDB id	610	V4T04	RS10165	WP	012897346.1
NTDB id	287	SP	RS11210	WP	001109712.1
NTDB id	290	KZH43	RS10025	WP	001109677.1
NTDB id	289	SPD	RS10700	WP	001109677.1
NTDB id	66015	SMUNUM	RS09580	WP	019805516.1
NTDB id	377	SMU	RS09275	WP	002262344.1
NTDB id	329	STU	RS10020	WP	011225298.1
NTDB id	297	STER	RS00545	WP	011680614.1
consensus					



535
534
534
534
534
592
601
596
596
596
599
599
602
602

logo

NTDB id	378	SMU	RS02690	WP	002263569.1
NTDB id	241	SP	RS04015	WP	000882523.1
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	85	BSU	00860	NP	387967.1
NTDB id	610	V4T04	RS10165	WP	012897346.1
NTDB id	287	SP	RS11210	WP	001109712.1
NTDB id	290	KZH43	RS10025	WP	001109677.1
NTDB id	289	SPD	RS10700	WP	001109677.1
NTDB id	66015	SMUNUM	RS09580	WP	019805516.1
NTDB id	377	SMU	RS09275	WP	002262344.1
NTDB id	329	STU	RS10020	WP	011225298.1
NTDB id	297	STER	RS00545	WP	011680614.1
consensus					

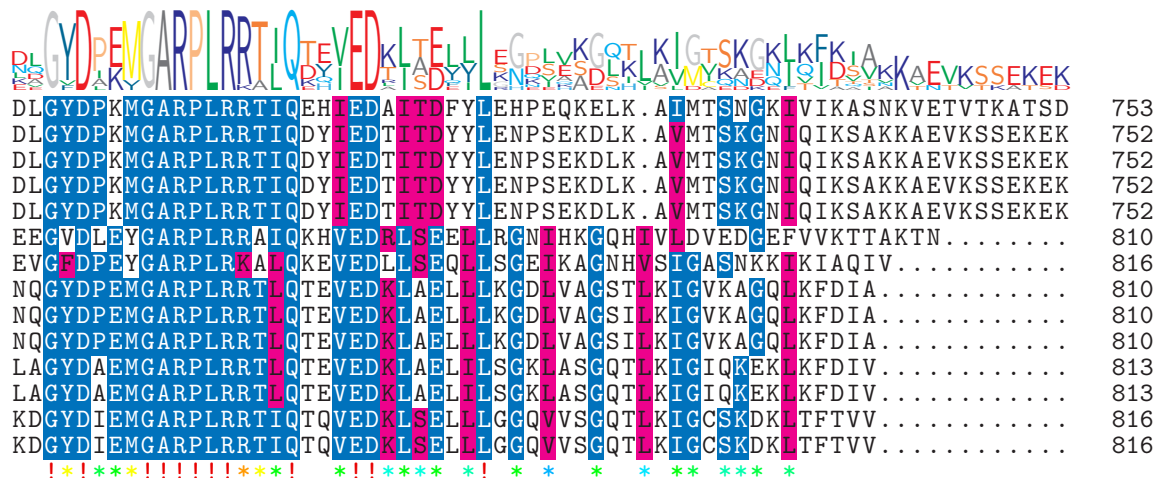


613
612
612
612
612
672
681
676
676
676
679
679
682
682

```

NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
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 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 66015 SMUNUM RS09580 WP 019805516.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 329 STU RS10020 WP 011225298.1
NTDB id 297 STER RS00545 WP 011680614.1
consensus

```



- X non conserved
- X similar
- X >50% conserved