

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	MTCQNCNINEAT.....	12
NTDB id 281 KZH43 RS03550 WP 000882517.1	MTCQNCKINDST.....	12
NTDB id 245 SPD RS03860 WP 000882517.1	MTCQNCKINDST.....	12
NTDB id 243 SPR RS03635 WP 000882517.1	MTCQNCKINDST.....	12
NTDB id 241 SP RS04015 WP 000882523.1	MTCQNCKINDST.....	12
NTDB id 1138465 DQM47 RS03200 WP 002983882.1	MTCQNCNINEST.....	12
NTDB id 378 SMU RS02690 WP 002263569.1	MTCQNCKINEAT.....	12
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGTAAKALQALGLGSEKIQKEVESLIG.....R	70
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAEYYAHQYQYGTIESAHLAAMATTSGSAYSLLAGMNVDSDDLIDL.....EDLSSH	72
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYVAGATLNDYPYEMDRLE.....EVALELTETDYS	70
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAAILAIGKKPKSSS	76
NTDB id 297 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFLWTWVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLWTWVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
consensus	**.....*	

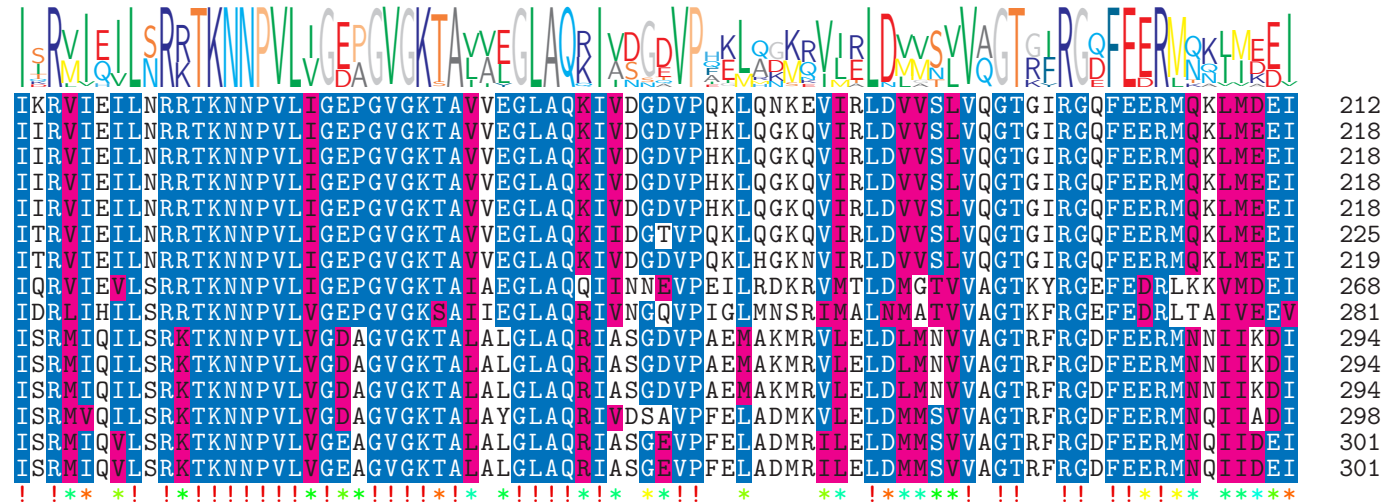
logo

NTDB id 601 KW2 RS02615 WP 021036805.1	IHL YTSVNGQKQIDLCQNCYQI...MKSQGTEALFGAGNASMGNS.....DEPFN.PFNDIFSATQQGQ	72
NTDB id 281 KZH43 RS03550 WP 000882517.1	IHL YTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF	69
NTDB id 245 SPD RS03860 WP 000882517.1	IHL YTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF	69
NTDB id 243 SPR RS03635 WP 000882517.1	IHL YTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF	69
NTDB id 241 SP RS04015 WP 000882523.1	IHL YTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF	69
NTDB id 1138465 DQM47 RS03200 WP 002983882.1	IHL YTSVNGKQKQIDLCQNCYQI...MKSDPANSTLNLGTPGYRAQ.....DRSTSPFFDDFFGD LNNF	73
NTDB id 378 SMU RS02690 WP 002263569.1	IHL YANVNGQKQKQIDLCQNCYQI...MKTDPENGPLNHLSSQQ...N.....SSSINPFFDDFFGD LNNF	70
NTDB id 85 BSU 00860 NP 387967.1	GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVCTEHLILGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....	141
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKVKRSTLRFSPRAEVEVMTAASFLAIHNNSEAVCTEHLILYALLQVEDGFGQLQLLKL.....QKINIVSLRKETEKR	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..DITMLEQSHALKHTLAEEAAAISQVTHAKEVCTEHLVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVTERY	154
NTDB id 297 STER RS00545 WP 011680614.1	ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGESEHVLMAFILHKLDMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN	156
NTDB id 329 STU RS10020 WP 011225298.1	ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGESEHVLMAFILHKLDMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN	156
consensus	* * * * * * * * * * * * * *	

```

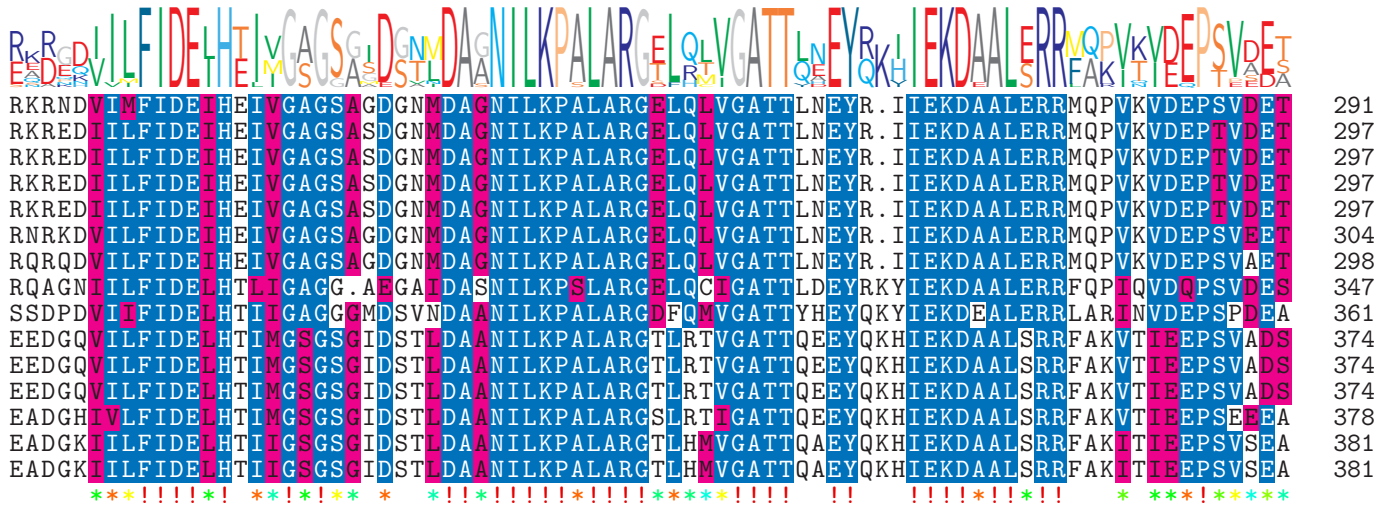
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 1138465 DQM47 RS03200 WP 002983882.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 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

```



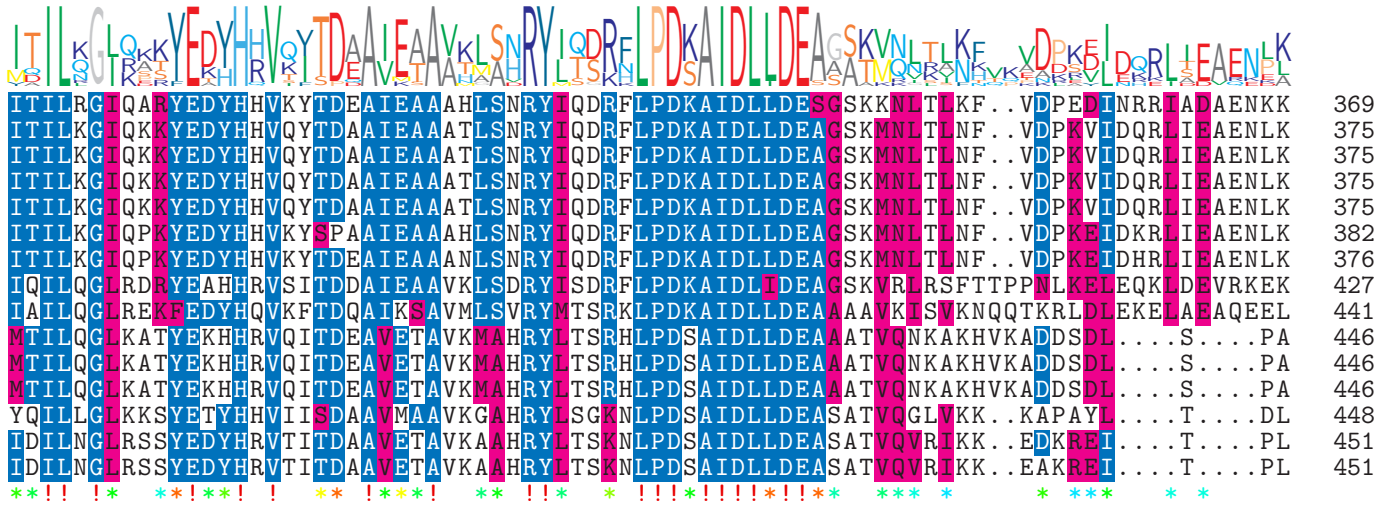
logo

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 1138465 DQM47 RS03200 WP 002983882.1
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 1138465 DQM47 RS03200 WP 002983882.1
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



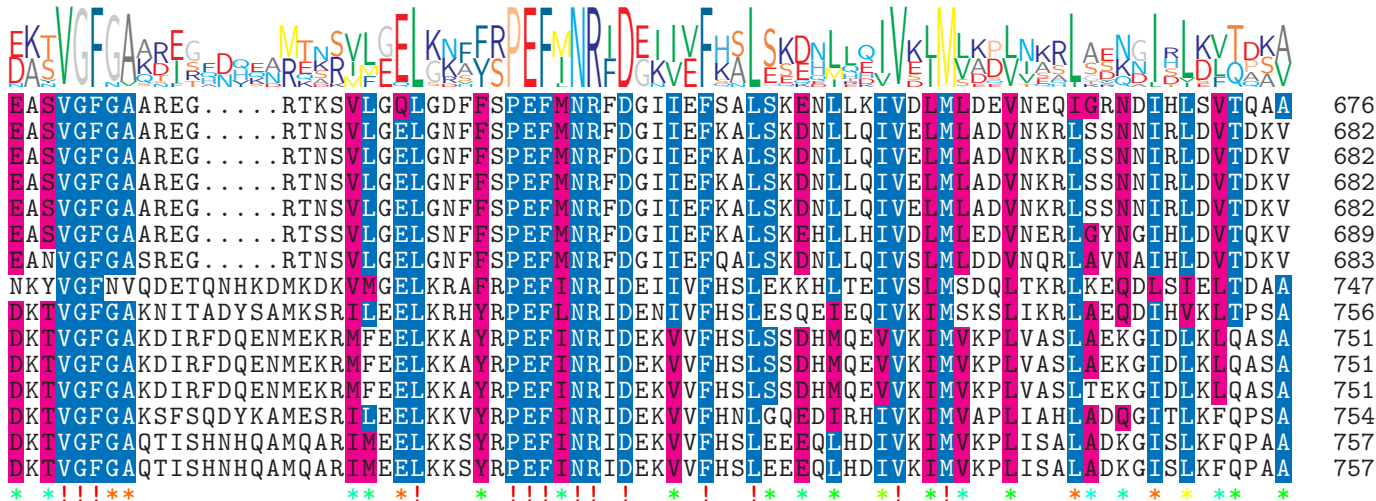
NTDB	id	601	KW2	RS02615	WP	021036805.1	NEATKAEDFEKAAHFRDQISKLRELQK.....QEVTDEDMPVITEKDTEQIVEEQTKTPVGDLEKEEQTQLINLADDLK	443
NTDB	id	281	KZH43	RS03550	WP	000882517.1	SQATREEDFEKAAAYFRDQIAKYKEMQK.....KKITDQDTPIISEKTIEHIIIEQKTNIPVGDLKEKEQSQLIHLAEDLK	449
NTDB	id	245	SPD	RS03860	WP	000882517.1	SQATREEDFEKAAAYFRDQIAKYKEMQK.....KKITDQDTPIISEKTIEHIIIEQKTNIPVGDLKEKEQSQLIHLAEDLK	449
NTDB	id	243	SPR	RS03635	WP	000882517.1	SQATREEDFEKAAAYFRDQIAKYKEMQK.....KKITDQDTPIISEKTIEHIIIEQKTNIPVGDLKEKEQSQLIHLAEDLK	449
NTDB	id	241	SP	RS04015	WP	000882523.1	SQATREEDFEKAAAYFRDQIAKYKEMQK.....KKITDQDTPIISEKTIEHIIIEQKTNIPVGDLKEKEQSQLIHLAEDLK	449
NTDB	id	1138465	DQM47	RS03200	WP	002983882.1	AQATRDEDYERAAAYFRDQITYKEMQA.....QKVDEQDIPITITEKTIEAIVEEQKTNIPVGDLKEKEQSQLVNLANDLK	456
NTDB	id	378	SMU	RS02690	WP	002263569.1	AQATRDEDYEKAAAYFRDQIAKYKEMQS.....AKLDKENTPVITEKNIEVIVEEQKTNIPVGELKEKEQSQLIHLADDLK	450
NTDB	id	85	BSU	00860	NP	387967.1	DAAVQSQEFEKAAASLRDTEQRLREQVEDTKKSWEKQGQENSEVTVDIIMVVSSWTGVPVSKIAQTETDKLINMENILH	507
NTDB	id	610	V4T04	RS10165	WP	012897346.1	SEAVIKLDIKASRTKEKAVEKIIADKIYKFS....VKEDKRQEVTDAQVAIVASTLTGVPTITMTKSESDDLINLEKELH	516
NTDB	id	290	KZH43	RS10025	WP	001109677.1	DKALMDGKWQKAAQLIAKEE.....E....VPV.YKDLVTESDILTTL SRLSGIPVQKLTQTD AKKYLNLEAEHL	511
NTDB	id	289	SPD	RS10700	WP	001109677.1	DKALMDGKWQKAAQLIAKEE.....E....VPV.YKDLVTESDILTTL SRLSGIPVQKLTQTD AKKYLNLEAEHL	511
NTDB	id	287	SP	RS11210	WP	001109712.1	DKALMDGKWQKAAQLIAKEE.....E....VPV.YKDLVTESDILTTL SRLSGIPVQKLTQTD AKKYLNLEAEHL	511
NTDB	id	377	SMU	RS09275	WP	002262344.1	DHALITNDYQLAKRLLKKEK.....K....PLLKKRAEVKEEDILATLSKLSGIPVKKLTQADSKKYLNLERELH	514
NTDB	id	297	STER	RS00545	WP	011680614.1	DEALISGDIGA AVKQYKANQ.....K....AKFPKPALVDADQIMQTL SRLSGIPVEKMTQTD SKRYLNLESELH	517
NTDB	id	329	STU	RS10020	WP	011225298.1	DEALISGDIGA AVKQYKANQ.....K....AKFPKPALVDADQIMQTL SRLSGIPVEKMTQTD SKRYLNLESELH	517
consensus							! * * * * *	!

NTDB	id	601	KW2	RS02615	WP	021036805.1	A	H	V	I	G	Q	D	E	A	V	D	K	I	S	K	A	I	R	R	S	R	V	G	L	G	P	N	R	P	I	G	S	F	L	F	V	G	P	T	G	V	G	K	T	E	L	A	K	Q	L	A	K	E	L	F	G	S	S	E	S	M	I	R	F	D	M	S	E	Y	M	E	K	H	S	V	A	K	L	I		523	
NTDB	id	281	KZH43	RS03550	WP	000882517.1	S	H	V	I	G	Q	D	E	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P	T	G	V	G	K	T	E	L	S	K	Q	L	A	I	E	L	F	G	S	A	D	S	M	I	R	F	D	M	S	E	Y	M	E	K	H	S	V	A	K	L	V		529
NTDB	id	245	SPD	RS03860	WP	000882517.1	S	H	V	I	G	Q	D	E	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P	T	G	V	G	K	T	E	L	S	K	Q	L	A	I	E	L	F	G	S	A	D	S	M	I	R	F	D	M	S	E	Y	M	E	K	H	S	V	A	K	L	V		529
NTDB	id	243	SPR	RS03635	WP	000882517.1	S	H	V	I	G	Q	D	E	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P	T	G	V	G	K	T	E	L	S	K	Q	L	A	I	E	L	F	G	S	A	D	S	M	I	R	F	D	M	S	E	Y	M	E	K	H	S	V	A	K	L	V		529
NTDB	id	241	SP	RS04015	WP	000882523.1	S	H	V	I	G	Q	D	E	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P	T	G	V	G	K	T	E	L	S	K	Q	L	A	I	E	L	F	G	S	A	D	S	M	I	R	F	D	M	S	E	Y	M	E	K	H	S	V	A	K	L	V		529
NTDB	id	1138465	DQM47	RS03200	WP	002983882.1	A	H	V	I	G	Q	D	E	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P	T	G	V	G	K	T	E	L	S	K	Q	L	A	I	E	L	F	G	S	T	N	N	M	I	R	F	D	M	S	E	Y	M	E	K	H	A	V	A	K	L	V		536
NTDB	id	378	SMU	RS02690	WP	002263569.1	T	R	V	I	G	Q	D	E	A	V	D	K	I	A	K	A	I	R	R	N	R	V	G	L	G	T	P	N	R	P	I	G	S	F	L	F	V	G	P	T	G	V	G	K	T	E	L	S	K	Q	L	A	I	E	L	F	G	S	E	D	S	M	I	R	F	D	M	S	E	Y	M	E	K	H	A	V	A	K	L	V		530
NTDB	id	85	BSU	00860	NP	387967.1	S	R	V	I	G	Q	D	E	A	V	V	A	K	A	V	R	R	A	R	A	G	L	K	D	P	K	R	P	I	G	S	F	I	F	L	G	P	T	G	V	G	K	T	E	L	A	R	A	L	A	E	S	I	F	G	D	E	S	M	I	R	T	D	M	S	E	Y	M	E	K	H	S	T	S	R	L	V		587			
NTDB	id	610	V4T04	RS10165	WP	012897346.1	K	R	V	I	G	Q	D	E	A	V	S	I	S	A	I	R	R	A	R	S	G	V	A	D	S	R	P	M	G	S	F	M	F	L	G	P	T																																													

```

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 1138465 DQM47 RS03200 WP 002983882.1
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	KEKLVLDLGYDPKMGARPLRRTIQENTIEDSIAIFYEHPEYKQLVADLIDDKIVISNQTQETAETTDDEEVP	748
NTDB id 281 KZH43 RS03550 WP 000882517.1	KEKLVLDLGYDPKMGARPLRRTIQDYIEDTTIDYYLENPSEKDLKAVMTSKCNIIQIKSAKKAIEVKSSEKEK	752
NTDB id 245 SPD RS03860 WP 000882517.1	KEKLVLDLGYDPKMGARPLRRTIQDYIEDTTIDYYLENPSEKDLKAVMTSKCNIIQIKSAKKAIEVKSSEKEK	752
NTDB id 243 SPR RS03635 WP 000882517.1	KEKLVLDLGYDPKMGARPLRRTIQDYIEDTTIDYYLENPSEKDLKAVMTSKCNIIQIKSAKKAIEVKSSEKEK	752
NTDB id 241 SP RS04015 WP 000882523.1	KEKLVLDLGYDPKMGARPLRRTIQDYIEDTTIDYYLENPSEKDLKAVMTSKCNIIQIKSAKKAIEVKSSEKEK	752
NTDB id 1138465 DQM47 RS03200 WP 002983882.1	KEKLVLDLGYDPKMGARPLRRTIQDYIEDAITDYYLEHPTEKQLRALMTNSENITIKAVKEGDSFLNEESL	760
NTDB id 378 SMU RS02690 WP 002263569.1	KEKLVLDLGYDPKMGARPLRRTIQEHTIEDAITDFYLEHPEQKELKAIMTSNCKIVIKASNKVETVTKATSD	753
NTDB id 85 BSU 00860 NP 387967.1	KAKVAEEGVLDLEYGARPLRRRIQKHVEDRLSEELLRGNIHKGQHVLVDVEDGEFVVVKTAKTN	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKLIAEVCFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSTIGASNKKIKIAQIV	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	LKLLANQGYDPEMGARPLRRTIQTEVEDKLAELLKKGDLVAGSILKIGVKACQLKFDIA	810
NTDB id 289 SPD RS10700 WP 001109677.1	LKLLANQGYDPEMGARPLRRTIQTEVEDKLAELLKKGDLVAGSILKIGVKACQLKFDIA	810
NTDB id 287 SP RS11210 WP 001109712.1	LKLLANQGYDPEMGARPLRRTIQTEVEDKLAELLKKGDLVAGSTLKIGVKACQLKFDIA	810
NTDB id 377 SMU RS09275 WP 002262344.1	LKHLALAGYDAEMGARPLRRTIQTEVEDKLAELLKSGKLASGQTLKIGIQKEKLKFDIV	813
NTDB id 297 STER RS00545 WP 011680614.1	LKHLAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV	816
NTDB id 329 STU RS10020 WP 011225298.1	LKHLAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV	816
consensus	* * !*** * !!!!!!!***! *!! *** *	

- non conserved
- similar
- ≥ 50% conserved