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NTDB id 601 KW2 RS02615 WP 021036805.1	MLCQNCNINEA.....	11
NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCNINEA.....	11
NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCNINDS.....	11
NTDB id 245 SPD RS03860 WP 000882517.1	MLCQNCNINDS.....	11
NTDB id 243 SPR RS03635 WP 000882517.1	MLCQNCNINDS.....	11
NTDB id 241 SP RS04015 WP 000882523.1	MLCQNCNINDS.....	11
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEAALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLI.....GR	70
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLAAMATTSGSIAYSLLAGMNVDSDDLII.....DLEDLSSH	72
NTDB id 57866 SPN032672 RS04730 WP 001109659.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAAILAIGKKPKSSS	76
NTDB id 297 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFLFTWVHLLAMVEVETGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLFTWVHLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
consensus	*** ** *	

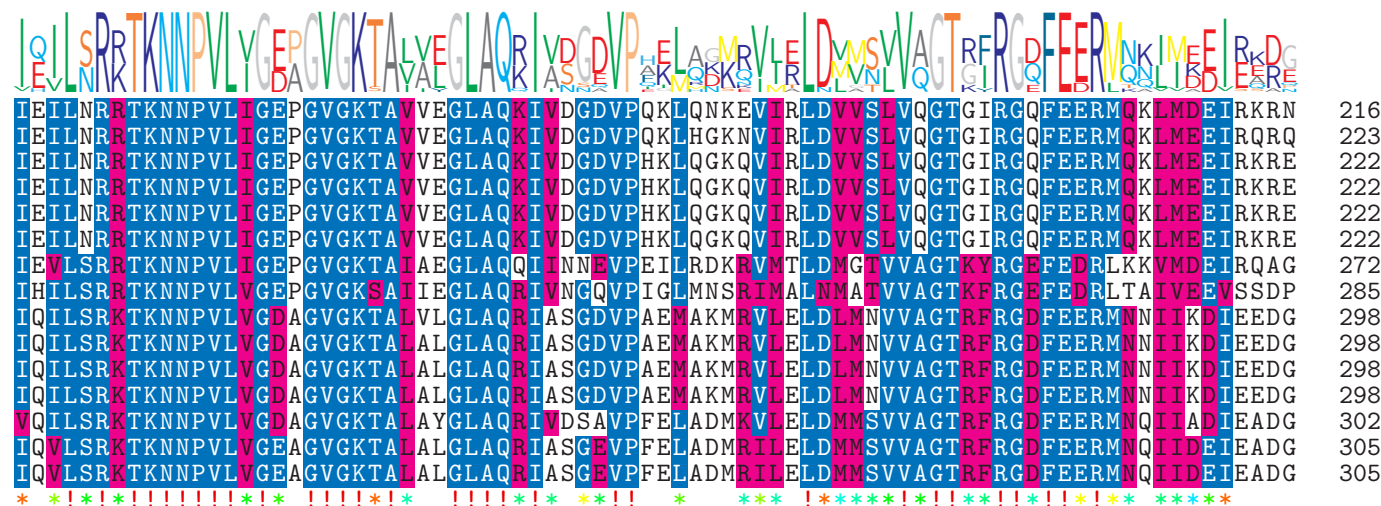
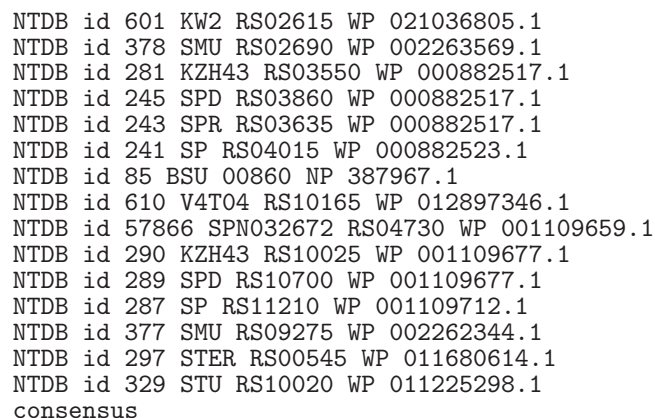
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NTDB id	378	SMU	RS02690	WP	002263569.1	...TIHLYANVNGQKKQIDLCQNCYQT...	MKTDPENGPLNHISQQNSSS.....	INPFFDDFFGDLLNNF	70
NTDB id	281	KZH43	RS03550	WP	000882517.1	...TIHLYTNLNGKQKKQIDLCQNCYKT...	IKTDPNNSLFKGMTDLNNRD.....	FDP.FGDFFNDLLNNF	69
NTDB id	245	SPD	RS03860	WP	000882517.1	...TIHLYTNLNGKQKKQIDLCQNCYKI...	IKTDPNNSLFKGMTDLNNRD.....	FDP.FGDFFNDLLNNF	69
NTDB id	243	SPR	RS03635	WP	000882517.1	...TIHLYTNLNGKQKKQIDLCQNCYKI...	IKTDPNNSLFKGMTDLNNRD.....	FDP.FGDFFNDLLNNF	69
NTDB id	241	SP	RS04015	WP	000882523.1	...TIHLYTNLNGKQKKQIDLCQNCYKI...	IKTDPNNSLFKGMTDLNNRD.....	FDP.FGDFFNDLLNNF	69
NTDB id	85	BSU	O0860	NP	387967.1	GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHIILGLIREGEGVAARVINNLGVSLNKARQQVLQL.....			141
NTDB id	610	V4T04	RS10165	WP	012897346.1	VKVKRSTLRFSPRAEIVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLKL.....		QKINIVSLRKLEKEKR	143
NTDB id	57866	SPN032672	RS04730	WP	001109659.1	QDETFTMELPFRRRLQVLFDAAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER			150
NTDB id	290	KZH43	RS10025	WP	001109677.1	QDETFTMELPFRRRLQVLFDAAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER			150
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NTDB id	297	STER	RS00545	WP	011680614.1	ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMAFLHLKDLMVCRILLEVAGFQYKDSDSKPRIIDLRRLERN			156
NTDB id	329	STU	RS10020	WP	011225298.1	ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLHLKDLMVCRILLEVAGFQYKDSDSKPRIIDLRRLERN			156
consensus						** * * * *	* * * * *	* * *	

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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
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NTDB id 57866 SPN032672 RS04730 WP 001109659.1
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
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NTDB id 601 KW2 RS02615 WP 021036805.1	DVIMFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVIGATT	LNEYR.IIEKDAALERRMQPVK	VDEPSVDETITIL	295	
NTDB id 378 SMU RS02690 WP 002263569.1	DVILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVIGATT	LNEYR.IIEKDAALERRMQPVK	VDEPSVAETITIL	302	
NTDB id 281 KZH43 RS03550 WP 000882517.1	DIILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVIGATT	LNEYR.IIEKDAALERRMQPVK	VDEPTVDETITIL	301	
NTDB id 245 SPD RS03860 WP 000882517.1	DIILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVIGATT	LNEYR.IIEKDAALERRMQPVK	VDEPTVDETITIL	301	
NTDB id 243 SPR RS03635 WP 000882517.1	DIILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVIGATT	LNEYR.IIEKDAALERRMQPVK	VDEPTVDETITIL	301	
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NTDB id 610 V4T04 RS10165 WP 012897346.1	DVIMFIDELHTIIGAGGGMDSVNDAAANILKPALARGE	DFQMVGATTY	HEYQKYIEKDAALERRLARIN	VDEPSPDEAIIAIL	365	
NTDB id 57866 SPN032672 RS04730 WP 001109659.1	QVILFIDELHTIMSGSGIDSTLDAANILKPALARGE	LRTVGATT	QEYQKHIIEKDAALSRRFAKV	ITIEPSVADSMITIL	378	
NTDB id 290 KZH43 RS10025 WP 001109677.1	QVILFIDELHTIMSGSGIDSTLDAANILKPALARGE	LRTVGATT	QEYQKHIIEKDAALSRRFAKV	ITIEPSVADSMITIL	378	
NTDB id 289 SPD RS10700 WP 001109677.1	QVILFIDELHTIMSGSGIDSTLDAANILKPALARGE	LRTVGATT	QEYQKHIIEKDAALSRRFAKV	ITIEPSVADSMITIL	378	
NTDB id 287 SP RS11210 WP 001109712.1	QVILFIDELHTIMSGSGIDSTLDAANILKPALARGE	LRTVGATT	QEYQKHIIEKDAALSRRFAKV	ITIEPSVADSMITIL	378	
NTDB id 377 SMU RS09275 WP 002262344.1	HIVLFIDELHTIMSGSGIDSTLDAANILKPALARGE	SLRTIGATT	QEYQKHIIEKDAALSRRFAKV	ITIEPSVEEAYQIL	382	
NTDB id 297 STER RS00545 WP 011680614.1	KIILFIDELHTIIGSGGIDSTLDAANILKPALARGE	LTHMVGATT	QAQYQKHIIEKDAALSRRFAK	ITIEPSVSEATDIL	385	
NTDB id 329 STU RS10020 WP 011225298.1	KIILFIDELHTIIGSGGIDSTLDAANILKPALARGE	LTHMVGATT	QAQYQKHIIEKDAALSRRFAK	ITIEPSVSEATDIL	385	
consensus	***!!!!*!***!!	!*** *	*!!!!!!*!!!!	* ****!!	!! * !!!!!*!! !!	* ****!*** ****!!

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NTDB id 601 KW2 RS02615 WP 021036805.1	RGIQARYEDYHHVKYTDEAIEAAAHLSNRYIQDRFLPDKAIDLLDESGSKMNLTLKFV..DPEDINRRIADAENKKNEAT	373
NTDB id 378 SMU RS02690 WP 002263569.1	KGIQPKYEDYHHVKYTDEAIEAAANLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKEIDHRLIEAENLKAQAT	380
NTDB id 281 KZH43 RS03550 WP 000882517.1	KGIQKKYEDYHHVQYTDAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQAT	379
NTDB id 245 SPD RS03860 WP 000882517.1	KGIQKKYEDYHHVQYTDAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQAT	379
NTDB id 243 SPR RS03635 WP 000882517.1	KGIQKKYEDYHHVQYTDAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQAT	379
NTDB id 241 SP RS04015 WP 000882523.1	KGIQKKYEDYHHVQYTDAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQAT	379
NTDB id 85 BSU 00860 NP 387967.1	QGLRDYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVKEDAAV	431
NTDB id 610 V4T04 RS10165 WP 012897346.1	QGLREKFEDYHQVKFTDQAIKSAVMLSVRYMTSRKLPDKAIDLLDEAAAVKISVKNNQTKRLDLEKELAEAEQEELSEAV	445
NTDB id 57866 SPN032672 RS04730 WP 001109659.1	QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKVKYKADSDLS.....PADKAL	450
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NTDB id 289 SPD RS10700 WP 001109677.1	QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADSDLS.....PADKAL	450
NTDB id 287 SP RS11210 WP 001109712.1	QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADSDLS.....PADKAL	450
NTDB id 377 SMU RS09275 WP 002262344.1	LGLKKSSETYHHVITSDAAVMAAVKGAHRYLSGKNLPDSAIDLLDEASATVQGLVK..KKAPAYLT.....DLDHAL	452
NTDB id 297 STER RS00545 WP 011680614.1	NGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIK..KEDKREIT.....PLDEAL	455
NTDB id 329 STU RS10020 WP 011225298.1	NGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIK..KEAKREIT.....PLDEAL	455
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NTDB id	601	KW2	RS02615	WP	021036805.1	G	V	V	G	Y	E	A	G	Q	L	T	R	V	R	N	P	S	L	I	L	D	E	I	E	K	A	H	P	D	V	M	H	M	F	L	Q	I	L	E	D	G	R	L	T	D	A	Q	G	R	T	V	S	F	K	D	S	L	I	I	M	T	S	N	A	G	T	G	K	.	.	V	E	A	S	V	605																																																																																																																																																																																																																																																																																																																																								
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NTDB id	297	STER	RS00545	WP	011680614.1	G	V	V	G	Y	D	E	G	G	E	L	T	E	K	V	R	N	K	P	S	V	L	L	F	D	E	I	E	K	A	H	P	D	I	F	N	I	L	Q	V	L	D	D	G	V	L	T	D	S	R	G	R	K	V	D	F	S	N	T	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	681																																																																																																																																																																																																																																																																																																																																						
NTDB id	329	STU	RS10020	WP	011225298.1	G	V	V	G	Y	D	E	G	G	E	L	T	E	K	V	R	N	K	P	S	V	L	L	F	D	E	I	E	K	A	H	P	D	I	F	N	V	L	Q	V	L	D	D	G	V	L	T	D	S	R	G	R	K	V	D	F	S	N	T	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	681																																																																																																																																																																																																																																																																																																																																						
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NTDB id	601	KW2	RS02615	WP	021036805.1	GFGAAREG.....RTKSVLGLQLGDFFSPEFMNRFDGIIIEFSA LSKENLLKIVDLMLEDEVNEQIGRNDTHLSVTQA AKEKL	680
NTDB id	378	SMU	RS02690	WP	002263569.1	GFGASREG.....RTNSVLGELGNFFSPEFMNRFDGIIIEFQA LSKDNLLQIVSLMLDDVNQR LA VNAIHL DVTDKVKEKL	687
NTDB id	281	KZH43	RS03550	WP	000882517.1	GFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIIEFKALSKDNLLQIVELMLADVNKR LSSNNIRLDVTDKVKEKL	686
NTDB id	245	SPD	RS03860	WP	000882517.1	GFGAAREG.... RTNSVLGELGNFFSPEFMNRFDGIIIEFKALSKDNLLQIVELMLADVNKR LSSNNIRLDVTDKVKEKL	686
NTDB id	243	SPR	RS03635	WP	000882517.1	GFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIIEFKALSKDNLLQIVELMLADVNKR LSSNNIRLDVTDKVKEKL	686
NTDB id	241	SP	RS04015	WP	000882523.1	GFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIIEFKALSKDNLLQIVELMLADVNKR LSSNNIRLDVTDKVKEKL	686
NTDB id	85	BSU	O0860	NP	387967.1	GFNVQDETQNHKDMKD KVMGELKRAERPEFINRIDEI IIVFHSLEKKH L TEIVSLMSDQLTKRIKEQDLSTIELTDAAKAKV	751
NTDB id	610	V4T04	RS10165	WP	012897346.1	GFGAKNITADYSAMKSRIELEELKRHYRPEFLNRIDENIVFHSLESQEIEEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLI	760
NTDB id	57866	SPN032672	RS04730	WP	001109659.1	GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVV FHS LSSDHMQEVVKIMVKPLVASLA EKGIDLKLQASALKL	755
NTDB id	290	KZH43	RS10025	WP	001109677.1	GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVV FHS LSSDHMQEVVKIMVKPLVASLA EKGIDLKLQASALKL	755
NTDB id	289	SPD	RS10700	WP	001109677.1	GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVV FHS LSSDHMQEVVKIMVKPLVASLA EKGIDLKLQASALKL	755
NTDB id	287	SP	RS11210	WP	001109712.1	GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVV FHS LSSDHMQEVVKIMVKPLVASL TEKGIDLKLQASALKL	755
NTDB id	377	SMU	RS09275	WP	002262344.1	GFGAKSFSQDYKAMESRIELEELKKVYRPEFINRIDEKVV FHNLGQEDIRHIVKIMVAPLIAHLADQGITLKFPQSALKHL	758
NTDB id	297	STER	RS00545	WP	011680614.1	GFGAQ TISHNHQAMQARIMEELKKSYRPEFINRIDEKVV FHS LEEEQ LHDIVKIMVKPLISALADKGISLKFQPAALKHL	761
NTDB id	329	STU	RS10020	WP	011225298.1	GFGAQ TISHNHQAMQARIMEELKKSYRPEFINRIDEKVV FHS LEEEQ LHDIVKIMVKPLISALADKGISLKFQPAALKHL	761
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NTDB id 601 KW2 RS02615 WP 021036805.1	VDLGYNPAMGARPLRRTIQENTIEDSTADFYIEHPEYKQ.LVADLIDDKIVISNQTQETAETTDDEEVPAE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VDLGYDPKMGARPLRRTIQEHIEDIAITDFYLEHPEQKE.LKAIMTSNGKIVIKASNK.VETVTKATSD.	753
NTDB id 281 KZH43 RS03550 WP 000882517.1	VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKK.AEVKSSEKEK.	752
NTDB id 245 SPD RS03860 WP 000882517.1	VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKK.AEVKSSEKEK.	752
NTDB id 243 SPR RS03635 WP 000882517.1	VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKK.AEVKSSEKEK.	752
NTDB id 241 SP RS04015 WP 000882523.1	VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKK.AEVKSSEKEK.	752
NTDB id 85 BSU 00860 NP 387967.1	AEEGVLDLEYGARPLRRRAIQKHVEDRLSEELLRCNIHKQQHIVLDVEDGEFVVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	AEVGFDPPEYGARPLRKALQKEVEDLLSEQLLSGETIKAGNHVSTIGASNKKIKIAQIV.....	816
NTDB id 57866 SPN032672 RS04730 WP 001109659.1	ANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSTLKIGVKAGQLKFDIA.....	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	ANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQLKFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	ANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQLKFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	ANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSTLKIGVKAGQLKFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	ALAGYDAEMGARPLRRTLQTEVEDKLAELLISGKLASGQTLKIGIQKEKIKFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	AKDGYDIEMGARPLRRTIQTQVEDKLSELLLGQQVVSQQTLLKIGCSKDKLTFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	AKDGYDIEMGARPLRRTIQTQVEDKLSELLLGQQVVSQQTLLKIGCSKDKLTFTVV.....	816
consensus	* !*****!!!!!!***! *!! *** * * * * * * * * * *	

- non conserved
- similar
- ≥ 50% conserved