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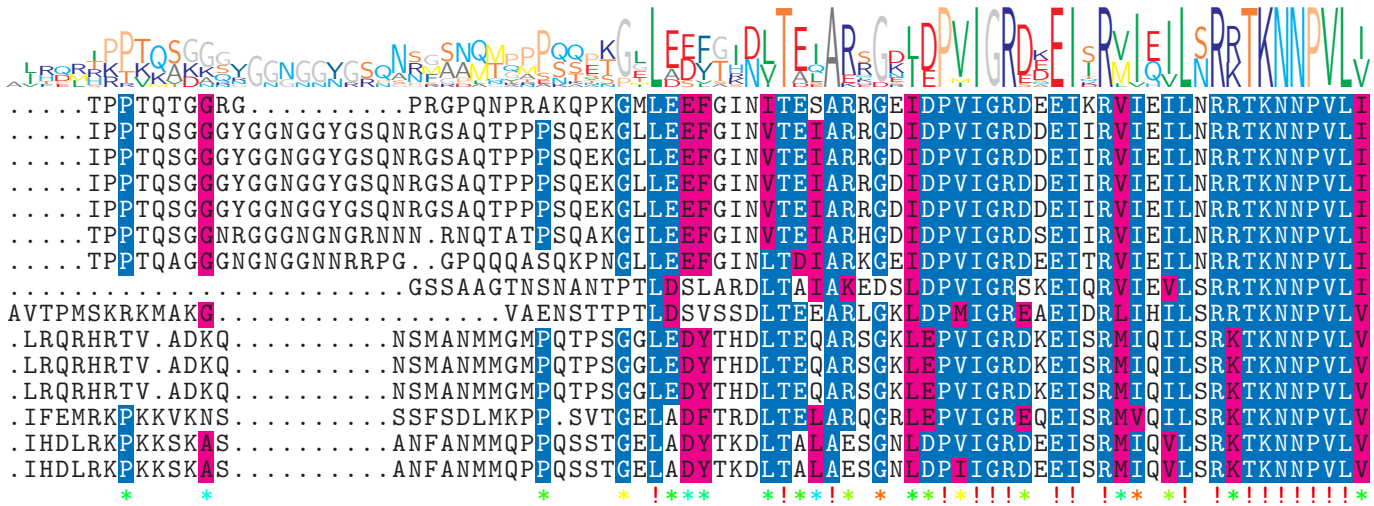
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NTDB id 281 KZH43 RS03550 WP 000882517.1	MTCQNCNINDS.....	TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	MTCQNCNINDS.....	TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	MTCQNCNINDS.....	TI	13
NTDB id 241 SP RS04015 WP 000882523.1	MTCQNCNINDS.....	TI	13
NTDB id 98877 AV644 RS03060 WP 000882549.1	MTCQNCNINES.....	TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MTCQNCNINEA.....	TI	13
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS		75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPTLDRILEKAEYAHQYQYGTIESAHLAAMATTSGSLAYSLLAGMNVDDSSDLLIDL.....EDLSSHVKVKR		77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	F	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	F	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	F	75
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN..DI	I	79
NTDB id 379 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	I	81
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	I	81
consensus	*.....*	**	

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NTDB	id	281	KZH43	RS03550	WP	000882517.1	H	L	Y	T	N	L	N	G	K	K	K	I	D	L	C	N	C	Y	K	I	...	I	K	T	D	P	N	N	S	L	F	K	G	M	T	D	L	N	N	R	..	D	F		D	P	F	G	D	F	F	N	D	L	N	N	F	R	P	S	..	N	T	P	P		77																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB	id	245	SPD	RS03860	WP	000882517.1	H	L	Y	T	N	L	N	G	K	K	K	I	D	L	C	N	C	Y	K	I	...	I	K	T	D	P	N	N	S	L	F	K	G	M	T	D	L	N	N	R	..	D	F		D	P	F	G	D	F	F	N	D	L	N	N	F	R	P	S	..	N	T	P	P		77																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB	id	243	SPR	RS03635	WP	000882517.1	H	L	Y	T	N	L	N	G	K	K	K	I	D	L	C	N	C	Y	K	I	...	I	K	T	D	P	N	N	S	L	F	K	G	M	T	D	L	N	N	R	..	D	F		D	P	F	G	D	F	F	N	D	L	N	N	F	R	P	S	..	N	T	P	P		77																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB	id	241	SP	RS04015	WP	000882523.1	H	L	Y	T	N	L	N	G	K	K	K	I	D	L	C	N	C	Y	K	I	...	I	K	T	D	P	N	N	S	L	F	K	G	M	T	D	L	N	N	R	..	D	F		D	P	F	G	D	F	F	N	D	L	N	N	F	R	P	S	..	N	T	P	P		77																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB	id	98877	AV644	RS03060	WP	000882549.1	H	L	Y	T	N	V	N	G	K	K	K	Q	V	D	L	C	N	C	Y	Q	I	...	I	K	T	D	P	N	M	L	S	G	L	N	H	V	S	H	A	P	G	G	I	N		P	F	F	D	D	F	F	G	D	L	N	N	F	R	A	F	N	G	Q	D	L	P	N		82																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NTDB	id	378	SMU	RS02690	WP	002263569.1	H	L	Y	A	N	V	N	G	K	K	K	I	D	L	C	N	C	Y	Q	I	...	M	K	T	D	P	E	N	G	P	L	N	H	L	S	Q	..	Q	N	S	S	I	N		P	F	F	D	D	F	F	G	D	L	N	N	F	R	A	F	N	N	Q	D	L	P	N		80																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NTDB	id	85	BSU	00860	NP	387967.1	Q	T	I	H	Y	T	P	R	A	K	K	V	I	E	L	S	M	D	E	A	R	K	L	G	H	S	Y	V	G	T	E	H	I	L	L	G	L	I	R	E	G	V	A	A	R	V	L	N	N	L	G	V	S	L	N	K	A	R	Q	Q	V	L	Q	L		L	C	S	N	E	T			147																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
NTDB	id	610	V4T04	RS10165	WP	012897346.1	S	T	L	R	F	S	P	R	A	E	E	V	M	T	A	A	S	F	L	A	I	H	N	N	S	E	A	V	G	T	E	H	L	L	Y	A	L	L	Q	V	E	D	G	F	G	L	Q	L	L	K	L		Q	K	I	N	I	V	S	L	R	K	E	L	E	K	T	G	L	K	V	P	E	S	K		153																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	290	KZH43	RS10025	WP	001109677.1	T	E	L	P	F	S	R	R	L	Q	I	L	F	D	E	A	E	Y	V	A	S	V	V	H	A	K	V	L	G	T	E	H	V	L	Y	A	I	L	H	D	G	N	A	T	R	I	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	L	E	E	R	A	G	W	T	R	E	D	L	K	A		160																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NTDB	id	289	SPD	RS10700	WP	001109677.1	T	E	L	P	F	S	R	R	L	Q	I	L	F	D	E	A	E	Y	V	A	S	V	V	H	A	K	V	L	G	T	E	H	V	L	Y	A	I	L	H	D	G	N	A	T	R	I	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	L	E	E	R	A	G	W	T	R	E	D	L	K	A		160																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NTDB	id	287	SP	RS11210	WP	001109712.1	T	E	L	P	F	S	R	R	L	Q	I	L	F	D	E	A	E	Y	V	A	S	V	V	H	A	K	V	L	G	T	E	H	V	L	Y	A	I	L	H	D	S	N	A	L	A	T	R	I	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	L	E	E	R	A	G	W	T	R	E	D	L	K	A		160																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	377	SMU	RS09275	WP	002262344.1	M	I	L	E	Q	S	H	A	L	K	R	T	L	A	E	A	A	A	I	S	Q	V	T	H	A	K	E	V	G	T	E	H	V	L	F	A	M	L	N	P	M	L	A	T	R	I	L	E	L	V	G	F	H	A	K	D	D	G	E	S	I	R	L	D	L	R	K	V	T	E	R	Y	A	C	F	S	K	E	D	I	K	A		164																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
NTDB	id	379	STER	RS00545	WP	011680614.1	D	L	R	A	Q	S	P	A	L	E	A	M	L	Q	E	A	Q	E	I	A	S	V	T	G	A	V	E	V	G	S	E	H	V	L	M	A	F	L	L	H	K	D	L	M	V	C	R	L	E	V	A	G	F	Q	Y	K	D	S	D	K	P	R	I	D	L	R	R	S	L	E	R	N	A	G	L	S	K	Q	D	L	K	A		166																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
NTDB	id	329	STU	RS10020	WP	011225298.1	D	L	R	A	Q	S	P	A	L	E	A	M	L	Q	E	A	Q	E	I	A	S	V	T	G	A	V	E	V	G	S	E	H	V	L	M	A	F	L	L	H	K	D	L	M	V	C	R	L	E	V	A	G	F	Q	Y	K	D	S	D	K	P	R	I	D	L	R	R	S	L	E	R	N	A	G	L	S	K	Q	D	L	K	A		166																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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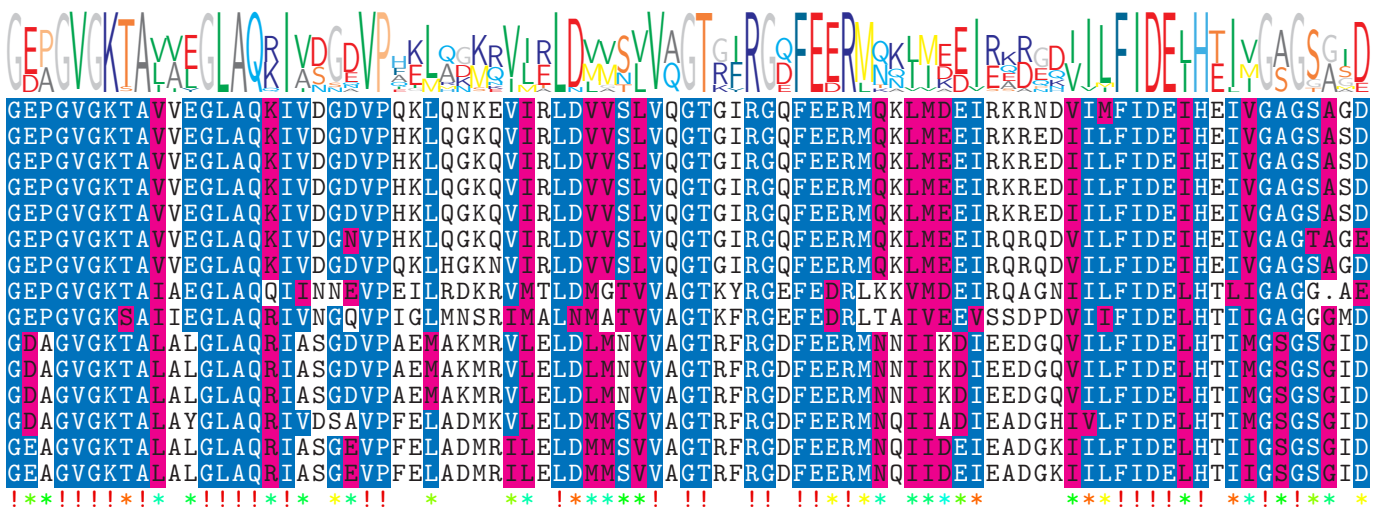
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NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



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NTDB id 601 KW2 RS02615 WP 021036805.1
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NTDB id 98877 AV644 RS03060 WP 000882549.1	GSM DAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPSVEETITILKGIQKKYEDYHHVKYNNDAIEAAAV	330
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NTDB id 85 BSU 00860 NP 387967.1	GAIDASNILKPSRLARGEELQCIGATTTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIIQLQGLDRDRYEAHHRVSIITDDAIEAAVK	376
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDPEPSPDEAIAILQGLREKFEDYHQVKFTDQAIKSSAVM	390
NTDB id 290 KZH43 RS10025 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 289 SPD RS10700 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 287 SP RS11210 WP 001109712.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 377 SMU RS09275 WP 002262344.1	STLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLGLKKSYYETYYHHVVISDAAVMAAVK	407
NTDB id 297 STER RS00545 WP 011680614.1	STLDAANILKPALARGTLHVMVGATTQA EYQKHIEKDAALSRRFAKITIEEPSVSEADIDILNGLRSSYEDYHRVTITDAAVETAVK	410
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consensus	*!!!!!!*!!!!*!*!!!!!! !! !!!!!*!!!! * ****!*****!! !* *!***! ! ** !****!	

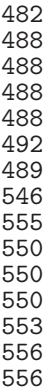
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NTDB id 290 KZH43 RS10025 WP 001109677.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKA DSDS.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 289 SPD RS10700 WP 001109677.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKA DSDS.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 287 SP RS11210 WP 001109712.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKA DSDS.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 377 SMU RS09275 WP 002262344.1	GAHRYLSGKNLPDS AIDLLDEASATVQGLVKK..KAPAYL....T....DLDHALITNDYQLAKRLLKKEK.....K....	469
NTDB id 297 STER RS00545 WP 011680614.1	AAHRYLTSKNLPDS AIDLLDEASATVQVR IKK..EDKREI....T....PLDEALISGDIGA AVKQYKANQ.....K....	472
NTDB id 329 STU RS10020 WP 011225298.1	AAHRYLTSKNLPDS AIDLLDEASATVQVR IKK..EAKREI....T....PLDEALISGDIGA AVKQYKANQ.....K....	472
consensus	** !!* * !!!!!*!!!!* * * * * * * * * ! * * * * * * *	

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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 98877 AV644 RS03060 WP 000882549.1
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

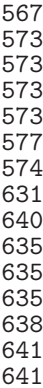
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NTDB id 601 KW2 RS02615 WP 021036805.1
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NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 98877 AV644 RS03060 WP 000882549.1
NTDB id 378 SMU RS02690 WP 002263569.1
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NTDB 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

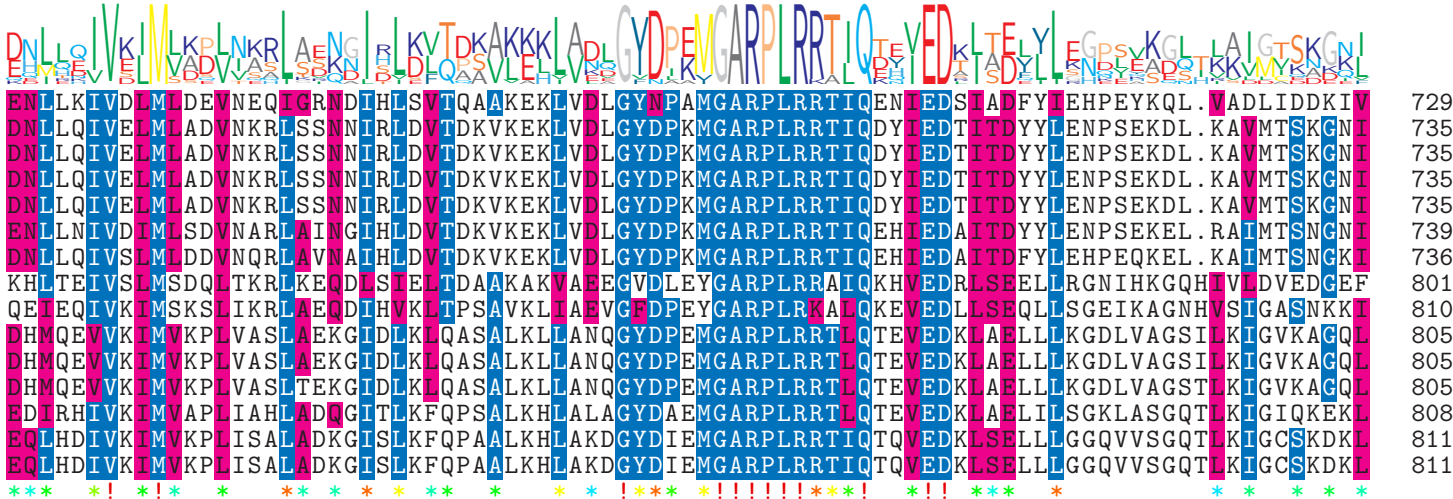
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NTDB id 601 KW2 RS02615 WP 021036805.1
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NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 98877 AV644 RS03060 WP 000882549.1
NTDB id 378 SMU RS02690 WP 002263569.1
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
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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

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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 98877 AV644 RS03060 WP 000882549.1
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

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logo

NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVPAE	748
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKKADEVKSSEKEK..	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKKADEVKSSEKEK..	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKKADEVKSSEKEK..	752
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKKADEVKSSEKEK..	752
NTDB id 98877 AV644 RS03060 WP 000882549.1	IIKSSKKTEESTKG.....	753
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NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		



-  non conserved
-  similar
-  ≥ 50% conserved