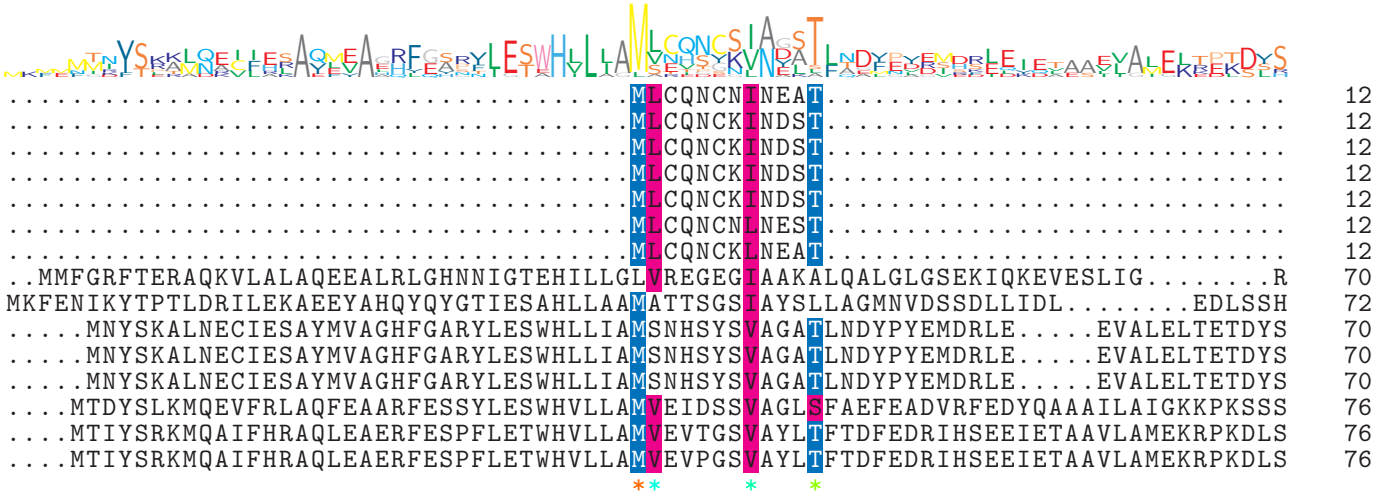


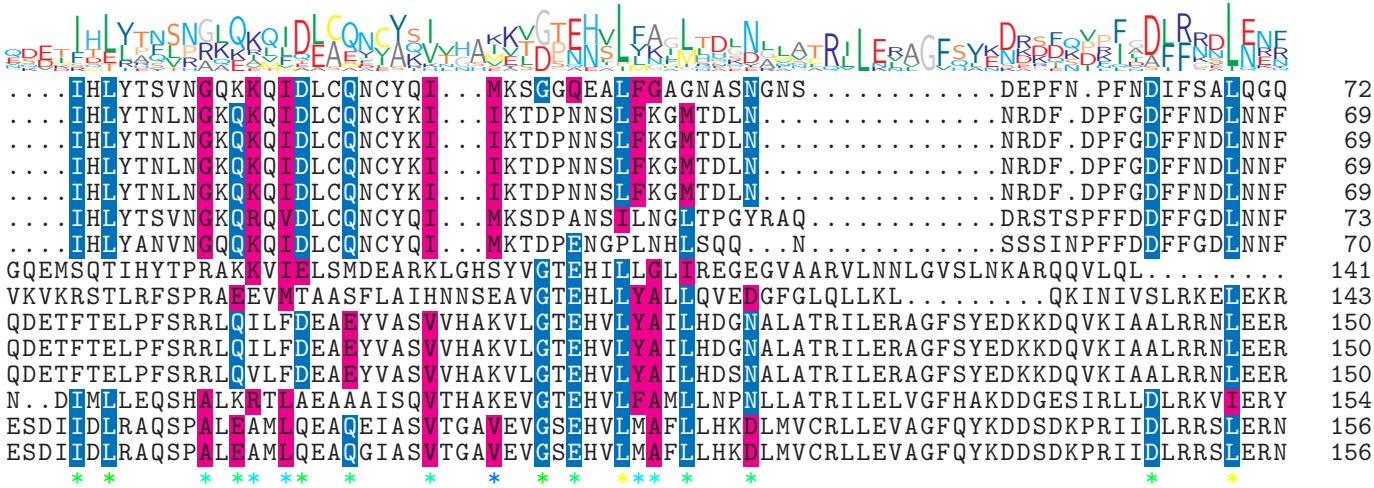
logo

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 118040 STAB1101 RS05460 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



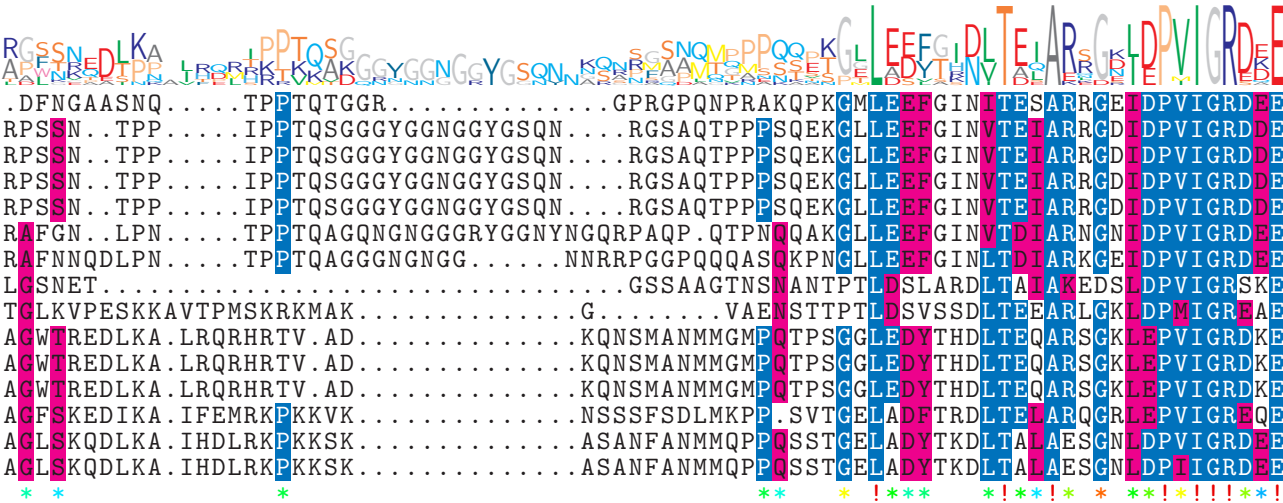
logo

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 118040 STAB1101 RS05460 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	118040	STAB1101	RS05460	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					



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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
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NTDB id	118040	STAB1101	RS05460	WP	002983882.1
NTDB id	378	SMU	RS02690	WP	002263569.1
NTDB id	85	BSU	00860	NP	387967.1
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NTDB id	377	SMU	RS09275	WP	002262344.1
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NTDB id	329	STU	RS10020	WP	011225298.1
consensus					



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logo

NTDB id	601	KW2 RS02615 WP 021036805.1	RKRNDVILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGEQLQVGATTLNEYR.IIEKDAALERMMQPVKVDEPSVDET	291
NTDB id	281	KZH43 RS03550 WP 000882517.1	RKREDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGEQLQVGATTLNEYR.IIEKDAALERMMQPVKVDEPTVDET	297
NTDB id	245	SPD RS03860 WP 000882517.1	RKREDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGEQLQVGATTLNEYR.IIEKDAALERMMQPVKVDEPTVDET	297
NTDB id	243	SPR RS03635 WP 000882517.1	RKREDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGEQLQVGATTLNEYR.IIEKDAALERMMQPVKVDEPTVDET	297
NTDB id	241	SP RS04015 WP 000882523.1	RKREDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGEQLQVGATTLNEYR.IIEKDAALERMMQPVKVDEPTVDET	297
NTDB id	118040	STAB1101 RS05460 WP 002983882.1	RNRKDVIILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGEQLQVGATTLNEYR.IIEKDAALERMMQPVKVDEPSVEET	304
NTDB id	378	SMU RS02690 WP 002263569.1	RQRQDVILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGEQLQVGATTLNEYR.IIEKDAALERMMQPVKVDEPSVAET	298
NTDB id	85	BSU O0860 NP 387967.1	RQAGNIILFIDELHTLIIGAGG.AEGATDASNILKPSLARGEQLQCIGATTLD EYRKY IEKDAALERRFPPIQVDQPSVDES	347
NTDB id	610	V4T04 RS10165 WP 012897346.1	SSDPDVIILFIDEIHTIIIGAGG.MDSVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEA	361
NTDB id	290	KZH43 RS10025 WP 001109677.1	EEDGGVILFIDELHTIMGSGSGCIDSTLDAANILKPALARGTLRTVGATTQEYYQKHIEKDAALSRRFAKVITIEEPSVADS	374
NTDB id	289	SPD RS10700 WP 001109677.1	EEDGGVILFIDELHTIMGSGSGCIDSTLDAANILKPALARGTLRTVGATTQEYYQKHIEKDAALSRRFAKVITIEEPSVADS	374
NTDB id	287	SP RS11210 WP 001109712.1	EEDGGVILFIDELHTIMGSGSGCIDSTLDAANILKPALARGTLRTVGATTQEYYQKHIEKDAALSRRFAKVITIEEPSVADS	374
NTDB id	377	SMU RS09275 WP 002262344.1	EADGHIILFIDELHTIMGSGSGCIDSTLDAANILKPALARGSLRTIGATTQEYYQKHIEKDAALSRRFAKVITIEEPSEFEA	378
NTDB id	297	STER RS00545 WP 011680614.1	EADGKIILFIDELHTIIIGSGSGCIDSTLDAANILKPALARGTLHMVGATTQA EYQKH IEKDAALSRRFAKITIEEPSVSEA	381
NTDB id	329	STU RS10020 WP 011225298.1	EADGKIILFIDELHTIIIGSGSGCIDSTLDAANILKPALARGTLHMVGATTQA EYQKH IEKDAALSRRFAKITIEEPSVSEA	381
consensus			** * * * * * * * * * * * * * * * * * * * *	

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NTDB	id	601	KW2	RS02615	WP	021036805.1	ITILRG	I	Q	A	R	Y	E	D	Y	H	H	V	K	Y	T	D	E	A	E	A	A	A	H	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	K	F	.	.	V	D	P	E	D	I	N	R	R	I	A	D	A	E	N	K	K	369																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB	id	281	KZH43	RS03550	WP	000882517.1	ITILKG	I	Q	K	K	Y	E	D	Y	H	H	V	Q	Y	T	D	A	A	E	A	A	A	T	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	V	I	D	Q	R	L	I	E	A	E	N	L	K	375																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB	id	245	SPD	RS03860	WP	000882517.1	ITILKG	I	Q	K	K	Y	E	D	Y	H	H	V	Q	Y	T	D	A	A	E	A	A	A	T	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	V	I	D	Q	R	L	I	E	A	E	N	L	K	375																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB	id	243	SPR	RS03635	WP	000882517.1	ITILKG	I	Q	K	K	Y	E	D	Y	H	H	V	Q	Y	T	D	A	A	E	A	A	A	T	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	V	I	D	Q	R	L	I	E	A	E	N	L	K	375																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB	id	241	SP	RS04015	WP	000882523.1	ITILKG	I	Q	K	K	Y	E	D	Y	H	H	V	Q	Y	T	D	A	A	E	A	A	A	T	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	V	I	D	Q	R	L	I	E	A	E	N	L	K	375																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB	id	118040	STAB1101	RS05460	WP	002983882.1	ITILKG	I	Q	K	K	Y	E	D	Y	H	H	V	K	Y	S	P	A	E	A	E	A	A	H	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	E	I	D	K	R	L	I	E	A	E	N	L	K	382																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB	id	378	SMU	RS02690	WP	002263569.1	ITILKG	I	Q	P	K	Y	E	D	Y	H	H	V	K	Y	T	D	E	A	E	A	A	A	N	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	E	I	D	H	R	L	I	E	A	E	N	L	K	376																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB	id	85	BSU	00860	NP	387967.1	IQILQG	L	R	D	R	Y	E	A	H	R	V	S	I	T	D	D	A	E	A	A	V	K	L	S	D	R	Y	I	S	D	R	F	L	P	D	K	A	I	D	L	D	E	A	G	S	K	V	R	L	R	S	F	T	T	P	P	N	L	K	E	L	E	Q	K	L	D	E	V	R	K	E	K	427																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB	id	610	V4T04	RS10165	WP	012897346.1	IAILQG	L	R	E	K	F	E	D	Y	H	Q	V	K	F	T	D	Q	A	I	K	S	A	V	M	L	S	V	R	Y	M	T	S	R	K	L	P	D	K	A	I	D	L	L	D	E	A	A	A	V	K	L	S	V	K	N	Q	T	K	R	L	D	E	K	E	L	A	E	A	Q	E	E	L	441																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB	id	290	KZH43	RS10025	WP	001109677.1	MTILQG	L	K	A	T	Y	E	K	H	H	R	V	Q	I	T	D	E	A	V	E	T	A	V	K	M	A	H	R	Y	L	T	S	R	H	L	P	D	S	A	I	D	L	L	D	E	A	A	T	V	Q	N	K	A	K	H	V	K	A	D	S	D	L	.	.	.	.	S	.	.	.	.	P	A	446																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB	id	289	SPD	RS10700	WP	001109677.1	MTILQG	L	K	A	T	Y	E	K	H	H	R	V	Q	I	T	D	E	A	V	E	T	A	V	K	M	A	H	R	Y	L	T	S	R	H	L	P	D	S	A	I	D	L	L	D	E	A	A	T	V	Q	N	K	A	K	H	V	K	A	D	S	D	L	.	.	.	.	.	.	.	.	P	A	446																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB	id	287	SP	RS11210	WP	001109712.1	MTILQG	L	K	A	T	Y	E	K	H	H	R	V	Q	I	T	D	E	A	V	E	T	A	V	K	M	A	H	R	Y	L	T	S	R	H	L	P	D	S	A	I	D	L	L	D	E	A	A	T	V	Q	N	K	A	K	H	V	K	A	D	S	D	L	.	.	.	.	.	.	.	.	P	A	446																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB	id	377	SMU	RS09275	WP	002262344.1	YQILGL	K	K	S	Y	E	T	Y	H	H	V	I	I	S	D	A	A	V	M	A	A	V	K	G	A	H	R	Y	L	S	G	K	N	L	P	D	S	A	I	D	L	L	D	E	A	S	A	T	V	Q	G	L	V	K	K	.	.	K	A	P	A	Y	L	.	.	.	.	.	.	.	.	D	L	448																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB	id	297	STER	RS00545	WP	011680614.1	IDILNG	L	R	S	S	Y	E	D	Y	H	R	V	T	I	T	D	A	A	V	E	T	A	V	K	A	H	R	Y	L	T	S	K	N	L	P	D	S	A	I	D	L	L	D	E	A	S	A	T	V	Q	V	R	I	K	K	.	.	E	D	K	R	E	I	.	.	.	.	.	.	.	.	P	L	451																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB	id	329	STU	RS10020	WP	011225298.1	IDILNG	L	R	S	S	Y	E	D	Y	H	R	V	T	I	T	D	A	A	V	E	T	A	V	K	A	H	R	Y	L	T	S	K	N	L	P	D	S	A	I	D	L	L	D	E	A	S	A	T	V	Q	V	R	I	K	K	.	.	E	A	K	R	E	I	.	.	.	.	.	.	.	.	P	L	451																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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NTDB id 601 KW2 RS02615 WP 021036805.1	KEKLV	DLGYN	PAMGARPLRRTIQ	ENTED	STADFY	TEHPEYKQL	VADLIDDKI	VISNQTQETAETTD	DEEVPAE	748			
NTDB id 281 KZH43 RS03550 WP 000882517.1	KEKL	VDLGYDP	KMGARPLRRTIQ	DYIED	TITDYY	LENPSEKDL	KAVMTSKGNI	QIKSAKKA	AEVKSSEKEK..	752			
NTDB id 245 SPD RS03860 WP 000882517.1	KEKL	VDLGYDP	KMGARPLRRTIQ	DYIED	TITDYY	LENPSEKDL	KAVMTSKGNI	QIKSAKKA	AEVKSSEKEK..	752			
NTDB id 243 SPR RS03635 WP 000882517.1	KEKL	VDLGYDP	KMGARPLRRTIQ	DYIED	TITDYY	LENPSEKDL	KAVMTSKGNI	QIKSAKKA	AEVKSSEKEK..	752			
NTDB id 241 SP RS04015 WP 000882523.1	KEKL	VDLGYDP	KMGARPLRRTIQ	DYIED	TITDYY	LENPSEKDL	KAVMTSKGNI	QIKSAKKA	AEVKSSEKEK..	752			
NTDB id 118040 STAB1101 RS05460 WP 002983882.1	KEKL	VDLGYDP	KMGARPLRRTIQ	DYIED	AITDYY	LEHPT	EKQL	RAIMTNS	ENITIKAVKEGDSFLNEESL.D	760			
NTDB id 378 SMU RS02690 WP 002263569.1	KEKL	VDLGYDP	KMGARPLRRTIQ	EHIED	AITDFY	LEHPEQ	KEL	KAIMTSNGK	IVIKASNKVETVTKATSD..	753			
NTDB id 85 BSU 00860 NP 387967.1	KAKVA	E	EGV	DLLEYGARPLRR	AIQKH	VEDRL	SEEL	LRGNIHKGQH	VLDVEDGEFVVKT	TAKTN.....	810		
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKL	IAE	V	GDPEYGARPLR	KALQ	KEVED	LLSEQL	LSGEIKAGNHV	STIGASNKK	TKIAQIV.....	816		
NTDB id 290 KZH43 RS10025 WP 001109677.1	LKLL	LANQGYD	PEMGARPLRRT	LQTE	VEDKLA	ELL	LKGD	LVAGSIL	LKIGVKA	QQLKFDIA.....	810		
NTDB id 289 SPD RS10700 WP 001109677.1	LKLL	LANQGYD	PEMGARPLRRT	LQTE	VEDKLA	ELL	LKGD	LVAGSIL	LKIGVKA	QQLKFDIA.....	810		
NTDB id 287 SP RS11210 WP 001109712.1	LKLL	LANQGYD	PEMGARPLRRT	LQTE	VEDKLA	ELL	LKGD	LVAGST	LKIGVKA	QQLKFDIA.....	810		
NTDB id 377 SMU RS09275 WP 002262344.1	LKHL	LALAGYD	AEMGARPLRRT	LQTE	VEDKLA	ELI	SGKLASGQT	LKIGIQKE	LKFDIV.....	813			
NTDB id 297 STER RS00545 WP 011680614.1	LKHL	LAKDGYD	IEMGARPLRRT	IQTQ	VEDKL	SELL	LGGQVVS	GGT	LKIGCSKDK	LFTTVV.....	816		
NTDB id 329 STU RS10020 WP 011225298.1	LKHL	LAKDGYD	IEMGARPLRRT	IQTQ	VEDKL	SELL	LGGQVVS	GGT	LKIGCSKDK	LFTTVV.....	816		
consensus	*	*	!***	*!!!!!!***!	*!!	***	*		*	*		*	*

- non conserved
- similar
- ≥ 50% conserved