

NTDB id 601 KW2 RS02615 WP 021036805.1	MLCQNCNINEA.....TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCNINEA.....TI	13
NTDB id 241 SP RS04015 WP 000882523.1	MLCQNCNINDS.....TI	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 40523 U722 RS00555 WP 007410388.1	..MMFGRFTIERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSDKIQKEVESLIG.....RGQEMS	75
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTIERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAEYYAHQYQYGTIESAHLAAMATTSGSIAYSLLAGMNVDSDDLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN..DI	79
NTDB id 329 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVTGSVAYLTFDTDFEDRIHSEEIETA AVLAMEKRPKDLSES	81
NTDB id 327 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVPGSVAYLTFDTDFEDRIHSEEIETA AVLAMEKRPKDLSES	81
consensus	*****	

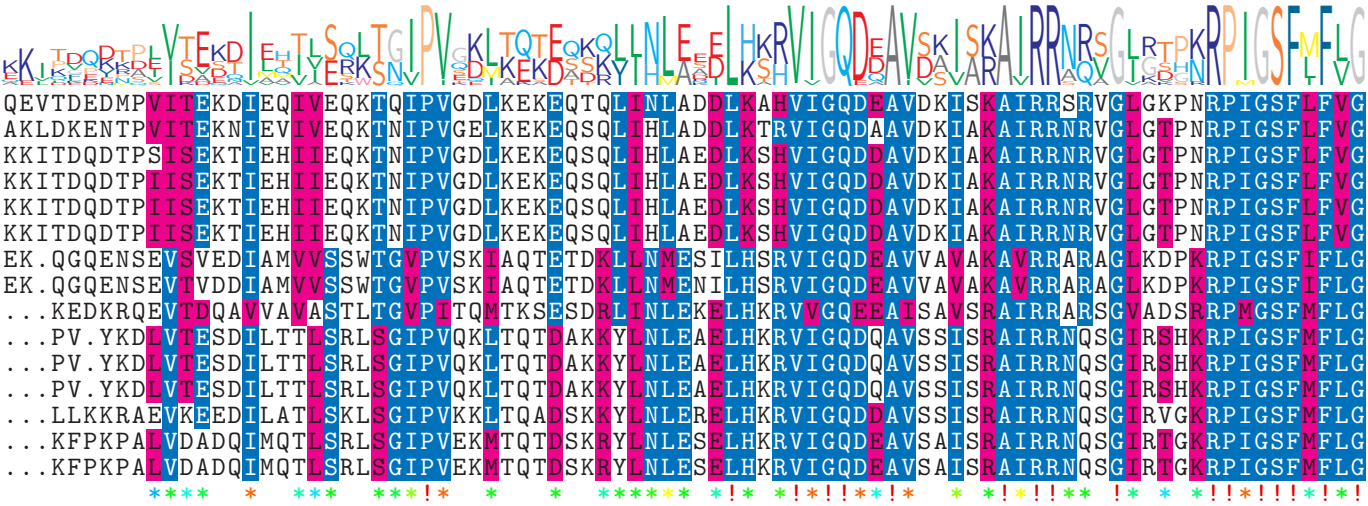
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NTDB	id	378	SMU	RS02690	WP	002263569.1	HLYANVNGQKKQIDLCQNCYQI...MKTDPPENGPLNHLSQQNSSS.....INPFDDFFGDLNNFRAFNQNQLP.	79
NTDB	id	241	SP	RS04015	WP	000882523.1	HLYTNLNGKQKKIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNLDNNFRPSSN..TP.	76
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGKQKKIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNLDNNFRPSSN..TP.	76
NTDB	id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGKQKKIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNLDNNFRPSSN..TP.	76
NTDB	id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGKQKKIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNLDNNFRPSSN..TP.	76
NTDB	id	40523	U722	RS00555	WP	007410388.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL..L.....CSNET....	147
NTDB	id	85	BSU	00860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL..L.....CSNET....	147
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFSAPRAEEVMTAASFLAIHNSEAVGTEHLLYALLQVEDGFGLQLKL.....QKINIVSLRKELEKRTGLKVPESKK	153
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLERACWTREDLKA	160
NTDB	id	289	SPD	RS10700	WP	001109677.1	TELPFSRRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLERACWTREDLKA	160
NTDB	id	287	SP	RS11210	WP	001109712.1	TELPFSRRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLERACWTREDLKA	160
NTDB	id	377	SMU	RS09275	WP	002262344.1	MILEQSALKRKTLAEAAAIISQVTHAKEVGTEHVLFAMLNPNLLATRIELELVGFHAKDDGESIRLLDLRKVTERYAGFSKEDIKA	164
NTDB	id	329	STER	RS00545	WP	011680614.1	DLRAQSPALEARMLQEAEQIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFYQKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB	id	297	STU	RS10020	WP	011225298.1	DLRAQSPALEARMLQEAGQIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFYQKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
consensus							* * * * *	

NTDB id	601	KW2	RS02615	WP	021036805.1	QTPPTQTGC.....RGRPGPQNPRAKQPKCMLEEFGINITESARRGEIDPVIGRDEEIKRVIEILNRRTKNNPVL	151
NTDB id	378	SMU	RS02690	WP	002263569.1	NTPPTQAGCGNGNGGN.N.RRPGGPQQASCKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRVIEILNRRTKNNPVL	158
NTDB id	241	SP	RS04015	WP	000882523.1	PIPPPTQSGCGYGGNGGYGSQNRGSAQTPPPSEQEKGLEEFGINVTEIARRGDIDPVIGRddeIIRVIEILNRRTKNNPVL	157
NTDB id	281	KZH43	RS03550	WP	000882517.1	PIPPPTQSGCYGGNGGYGSQNRGSAQTPPPSEQEKGLEEFGINVTEIARRGDIDPVIGRddeIIRVIEILNRRTKNNPVL	157
NTDB id	245	SPD	RS03860	WP	000882517.1	PIPPPTQSGCYGGNGGYGSQNRGSAQTPPPSEQEKGLEEFGINVTEIARRGDIDPVIGRddeIIRVIEILNRRTKNNPVL	157
NTDB id	243	SPR	RS03635	WP	000882517.1	PIPPPTQSGCYGGNGGYGSQNRGSAQTPPPSEQEKGLEEFGINVTEIARRGDIDPVIGRddeIIRVIEILNRRTKNNPVL	157
NTDB id	40523	U722	RS00555	WP	007410388.1	GSSASGTNSNANTPTLDSLARDLTATAKEDSLDPVIGRSKEIQRVIEVLSRRTKNNPVL	207
NTDB id	85	BSU	00860	NP	387967.1	GSSAAGTNSNANTPTLDSLARDLTATAKEDSLDPVIGRSKEIQRVIEVLSRRTKNNPVL	207
NTDB id	610	V4T04	RS10165	WP	012897346.1	AVTPMSKRKMAKC.....VAENSTPTLDVSDDLTEEARLGKLDPMIGRAEIDRLIHILSRRTKNNPVL	220
NTDB id	290	KZH43	RS10025	WP	001109677.1	.LRQRHRTV.ADK.....QNSMANMMGMPCPTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQLSRKTNNPVLV	233
NTDB id	289	SPD	RS10700	WP	001109677.1	.LRQRHRTV.ADK.....QNSMANMMGMPCPTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQLSRKTNNPVLV	233
NTDB id	287	SP	RS11210	WP	001109712.1	.LRQRHRTV.ADK.....QNSMANMMGMPCPTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQLSRKTNNPVLV	233
NTDB id	377	SMU	RS09275	WP	002262344.1	.IFEMRKPKKVKN.....SSSFSDLMKPP.SVTGELADFTRLDELARQGRLEPVIGREQEISRMVQILSRKTNNPVLV	237
NTDB id	297	STER	RS00545	WP	011680614.1	.IHDLRKPKKSKA.....SANFANMMQPP.CSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMIVLSRKTNNPVLV	240
NTDB id	329	STU	RS10020	WP	011225298.1	.IHDLRKPKKSKA.....SANFANMMQPP.CSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMIVLSRKTNNPVLV	240
consensus						* *	** ** !*** **!*!!*!* **!*!!!!* !! !*** *!*****!*****!

NTDB	id	601	KW2	RS02615	WP	021036805.1	G	E	P	G	P	G	V	G	K	T	A	V	E	G	L	A	Q	K	I	V	D	G	D	V	P	Q	K	L	Q	N	K	E	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	G	Q	F	E	E	R	M	Q	K	L	M	D	E	I	R	K	R	N	D	V	I	M	F	I	D	E	I	H	E	I	V	G	A	G	S	A	G	D	236
NTDB	id	378	SMU	RS02690	WP	002263569.1	G	E	P	G	V	G	K	T	A	V	E	G	L	A	Q	K	I	V	D	G	D	V	P	Q	K	L	H	G	K	N	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	G	Q	F	E	E	R	M	Q	K	L	M	E	E	I	R	Q	R	Q	D	V	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	A	G	D	243		
NTDB	id	241	SP	RS04015	WP	000882523.1	G	E	P	G	V	G	K	T	A	V	E	G	L	A	Q	K	I	V	D	G	D	V	P	H	K	L	Q	G	K	Q	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	G	Q	F	E	E	R	M	Q	K	L	M	E	E	I	R	K	R	E	D	V	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	A	G	D	242		
NTDB	id	281	KZH43	RS03550	WP	000882517.1	G	E	P	G	V	G	K	T	A	V	E	G	L	A	Q	K	I	V	D	G	D	V	P	H	K	L	Q	G	K	Q	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	G	Q	F	E	E	R	M	Q	K	L	M	E	E	I	R	K	R	E	D	V	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	A	G	D	242		
NTDB	id	245	SPD	RS03860	WP	000882517.1	G	E	P	G	V	G	K	T	A	V	E	G	L	A	Q	K	I	V	D	G	D	V	P	H	K	L	Q	G	K	Q	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	G	Q	F	E	E	R	M	Q	K	L	M	E	E	I	R	K	R	E	D	V	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	A	G	D	242		
NTDB	id	243	SPR	RS03635	WP	000882517.1	G	E	P	G	V	G	K	T	A	V	E	G	L	A	Q	K	I	V	D	G	D	V	P	H	K	L	Q	G	K	Q	V	I	R	L	D	V	S	L	V	Q	G	T	G	I	R	G	Q	F	E	E	R	M	Q	K	L	M	E	E	I	R	K	R	E	D	V	I	L	F	I	D	E	I	H	E	I	V	G	A	G	S	A	G	D	242		
NTDB	id	40523	U722	RS00555	WP	007410388.1	G	E	P	G	V	G	K	T	A	E	G	L	A	Q	Q	I	N	N	E	V	P	E	I	L	R	D	K	R	V	M	T	L	D	M	G	T	V	V	A	G	T	K	Y	R	G	E	F	E	D	R	L	K	K	V	M	D	E	I	R	Q	A	G	N	I	I	L	F	I	D	E	L	H	T	L	I	G	A	G	G	.A	E	291				
NTDB	id	85	BSU	00860	NP	387967.1	G	E	P	G	V	G	K	T	A	E	G	L	A	Q	Q	I	N	N	E	V	P	E	I	L	R	D	K	R	V	M	T	L	D	M	G	T	V	V	A	G	T	K	Y	R	G	E	F	E	D	R	L	K	K	V	M	D	E	I	R	Q	A	G	N	I	I	L	F	I	D	E	L	H	T	L	I	G	A	G	G	.A	E	291				
NTDB	id	610	V4T04	RS10165	WP	012897346.1	G	E	P	G	V	G	K	S	A	I	E	G	L																																																																									

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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
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NTDB id 329 STU RS10020 WP 011225298.1
consensus



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NTDB id 601 KW2 RS02615 WP 021036805.1	V	I	S	N	Q	T	Q	E	A	E	T	T	D	E	E	V	P	A	E	748
NTDB id 378 SMU RS02690 WP 002263569.1	I	V	I	K	A	S	N	K	.	V	E	T	V	T	K	A	T	S	D	753
NTDB id 241 SP RS04015 WP 000882523.1	I	Q	I	K	S	A	K	K	.	A	E	V	K	S	S	E	K	E	K	752
NTDB id 281 KZH43 RS03550 WP 000882517.1	I	Q	I	K	S	A	K	K	.	A	E	V	K	S	S	E	K	E	K	752
NTDB id 245 SPD RS03860 WP 000882517.1	I	Q	I	K	S	A	K	K	.	A	E	V	K	S	S	E	K	E	K	752
NTDB id 243 SPR RS03635 WP 000882517.1	I	Q	I	K	S	A	K	K	.	A	E	V	K	S	S	E	K	E	K	752
NTDB id 40523 U722 RS00555 WP 007410388.1	F	V	V	K	T	T	A	K	T	N	.	.	.	.	.	.	.	.	.	810
NTDB id 85 BSU 00860 NP 387967.1	F	V	V	K	T	T	A	K	T	N	.	.	.	.	.	.	.	.	.	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	I	K	I	A	Q	I	V	.	.	.	.	.	.	.	.	.	.	.	.	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 289 SPD RS10700 WP 001109677.1	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 287 SP RS11210 WP 001109712.1	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	.	.	.	.	810
NTDB id 377 SMU RS09275 WP 002262344.1	L	K	F	D	I	V	.	.	.	.	.	.	.	.	.	.	.	.	.	813
NTDB id 297 STER RS00545 WP 011680614.1	L	T	F	T	V	V	.	.	.	.	.	.	.	.	.	.	.	.	.	816
NTDB id 329 STU RS10020 WP 011225298.1	L	T	F	T	V	V	.	.	.	.	.	.	.	.	.	.	.	.	.	816
consensus	*																			

-  non conserved
-  similar
-  ≥ 50% conserved