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NTDB id 420	DQL23 RS10740 WP 008808031.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 417	SGO RS10500 WP 008808031.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 627	AAM18091.1 1453..2205()	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 250	KZH43 RS10245 WP 000866065.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 209	SPD RS10920 WP 000866065.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 175	SPR RS10400 WP 000866065.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 139	SP RS11425 WP 000866065.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 487	SM12261 RS09370 WP 000866073.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 515	SMSK321 RS0102895 WP 000866074.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFVQAQLIRHY	78
NTDB id 545	H702 RS02385 WP 052071091.1	MIDIIYVLEDNIVNQQRFRTEKMGIDLETNQWETRHFDFLSEPDCLTN.LVEESFPQIFFLDIDIHGDNTEKGEVAKAIREK	79
NTDB id 542	H702 RS02345 WP 039696227.1	MLDIFILEDNITQQFRIERQIETIMERNHWEYQRLEAF.AASKDIIKKAGGQGNHQVFFLDLEIKGDEKQGLDVARSIRESK	80
NTDB id 21928	SPYM18 RS02330 WP 002992578.1	.MNIIFVLEDDFLHQTRIEKTIYKILTDNKIEYNHLEVYCKPQQLLEDTSERGRHQIFFLDIDIKGEDKKCMETAVEIRNR	79
NTDB id 55	SMU RS08710 WP 002262114.1	MISIFVLEDDFLQGRLETTIAATMKEKNWSYKELTIFGKPPQLIDATPEKGNHQIFFLDIEIKKEKKGLEVANQIRQH	80
consensus		*****!!! **!*!*!*!***** ** * * ***** ** ** **!*!!*!!*! **!* **!* **!*!!!	

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NTDB id 420	DQL23 RS10740 WP 008808031.1	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 417	SGO RS10500 WP 008808031.1	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 627	AAM18091.1 1453..2205()	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 250	KZH43 RS10245 WP 000866065.1	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 209	SPD RS10920 WP 000866065.1	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 175	SPR RS10400 WP 000866065.1	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 139	SP RS11425 WP 000866065.1	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 487	SM12261 RS09370 WP 000866073.1	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 515	SMSK321 RS0102895 WP 000866074.1	NPYAIIVFVTSHSEFATLTFKYKVSALDFIDKDINDNSFKKRVKDCIVYTRNNLIENTDIVDFEYSFRGNEIRIPERDI	158
NTDB id 545	H702 RS02385 WP 052071091.1	SRTATIVFVTTTHSEFMLLTYRAQVSALDFIDKTDKDAIKNDLKKCKQKVFEDQGF.NIPKEIFVFNENKTKIRIPLEDI	158
NTDB id 542	H702 RS02345 WP 039696227.1	DPTAIIIVFVTTTHSEFMLLTYQSLVGAIDFDKNDKNDKAFGGRIELCKEALKYQ.TGSFGENSYLEETAKARIRVAYDDI	159
NTDB id 21928	SPYM18 RS02330 WP 002992578.1	DPHAVIIVFVTTTHSEFMPLVVSFQYQVSALDFIDKELPEELFSHRIEKATITYVQDNQGK.TLAEDSFVFINVKSQIQVPSDL	158
NTDB id 55	SMU RS08710 WP 002262114.1	NPSAVIIVFVTTTHSEFMPLTHQYQVSALDFIDKSLNPEBFSHRIBSALYYAMENSQKNGQSEELFIHSSSETQFQVPAEI	160
consensus		***!*!!*!* *!!*!*****!*!!*!!*!!*!********** * ***** ***** ********** *****	

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NTDB id 420	DQL23 RS10740 WP 008808031.1	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 417	SGO RS10500 WP 008808031.1	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 627	AAM18091.1 1453..2205()	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 250	KZH43 RS10245 WP 000866065.1	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 209	SPD RS10920 WP 000866065.1	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 175	SPR RS10400 WP 000866065.1	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 139	SP RS11425 WP 000866065.1	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 487	SM12261 RS09370 WP 000866073.1	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 515	SMSK321 RS0102895 WP 000866074.1	LYIETTGSPYKLRVVGKNFFKEFYGTIAEIQEQDKELGYFFSPHKSYLSNISNTISGYDKKTKDVLVYDGHRSPI SRLRVR	238
NTDB id 545	H702 RS02385 WP 052071091.1	LYFETAE.SHRLKLIITKGGQHFGYCSIKEVMQANQ...KLRCHKSYLENNIVRLDKKEGLVYFDDDKACYVSRKYIK	234
NTDB id 542	H702 RS02345 WP 039696227.1	LYFETSPVHRVILHTKTGQTEFYGTIAEVAKSDK...RLLKCHRSFVNNVNTFEDKSTRAYFENGSYCQVSRDKVK	236
NTDB id 21928	SPYM18 RS02330 WP 002992578.1	LYIETSLIPHKLLIYSTKQRVFEFYGLSEIVQDD...RLFQCHRSFVNNVNNISSIDRSERLYLKGGLSCIVSRLKIR	235
NTDB id 55	SMU RS08710 WP 002262114.1	LYFETSSTAHLCLYTYDERIEFYGSMIDIVKMDK...RLFQCHRSFVNNVNNITRIDRKRLAYERNKSCILSRTKIT	237
consensus		!!*!!********** **!*!!***** ** *****!*!!*!!*!!*! **!* **!* ***************!*****	

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NTDB id 420 DQL23 RS10740 WP 008808031.1	Y L K E I L K A K S K K E E N K K	255
NTDB id 417 SGO RS10500 WP 008808031.1	Y L K E I L K A K S K K E E N K K	255
NTDB id 627 AAM18091.1 1453..2205()	K L R D I L E K K S K K *	250
NTDB id 250 KZH43 RS10245 WP 000866065.1	K L K D I L E K K S Q K	250
NTDB id 209 SPD RS10920 WP 000866065.1	K L K D I L E K K S Q K	250
NTDB id 175 SPR RS10400 WP 000866065.1	K L K D I L E K K S Q K	250
NTDB id 139 SP RS11425 WP 000866065.1	K L K D I L E K K S Q K	250
NTDB id 487 SM12261 RS09370 WP 000866073.1	K L K D I L E K K S Q K	250
NTDB id 515 SMSK321 RS0102895 WP 000866074.1	K L K D I L E K K S Q K	250
NTDB id 545 H702 RS02385 WP 052071091.1	D L R S K M E N L K	244
NTDB id 542 H702 RS02345 WP 039696227.1	K L M A E M R	243
NTDB id 21928 SPYM18 RS02330 WP 002992578.1	S L I K V V E L H T K E K . .	249
NTDB id 55 SMU RS08710 WP 002262114.1	K L R A V I A D Q R R A K . . .	250
consensus	* ! * * * * * * * *	

- ☐ non conserved
- ☒ similar
- ☒ ≥ 50% conserved