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NTDB id 420	DQL23 RS10740 WP 008808031.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY	78
NTDB id 417	SGO RS10500 WP 008808031.1	.MKVLILEDVIEHQVRLERIVFEISRELNLIEIKA.KVTGKTHEFKEYVESDEVNQLYFLDIDIKGEEQKGLEMAQFIRQH	78
NTDB id 627	AAM18091.1 1453..2205()	.MKVLILEDVIEHQVRLERTLDEISKELNIPISY.KTTGKEREFKEYIENDEVNQLYFLDIDIHGVEKKGFEVAQFIRRH	78
NTDB id 487	SM12261 RS09370 WP 000866073.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQFIRHH	78
NTDB id 250	KZH43 RS10245 WP 000866065.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY	78
NTDB id 209	SPD RS10920 WP 000866065.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY	78
NTDB id 175	SPR RS10400 WP 000866065.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY	78
NTDB id 139	SP RS11425 WP 000866065.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY	78
NTDB id 515	SMSK321 RS0102895 WP 000866074.1	.MKVLILEDVIEHQVRLERILDEISKESNIPISY.KTTGKVRFEFEYIENDEVNQLYFLDIDIHGIEKKGFEVAQLIRHY	78
NTDB id 545	H702 RS02385 WP 052071091.1	MIDIIYVLEDNIVNQQRFRIEKMIGDILETNGWETRHFDFLSEPDCLTN.LVEESFPQIFFLDIDIHGDNTEKGEVAKAIREK	79
NTDB id 542	H702 RS02345 WP 039696227.1	MLDIFILEDNITQQFRIERQIETIMERNHWEYQRLEAF.AASKDIIKKAGGQGNHQVFFLDLEIKGDEKQGLDVARSIRESK	80
NTDB id 51112	SPAF RS01755 WP 041826204.1	MLKIFVLEDEWIQQSRTEAVLQDLIRGKS.IQCKAPEVFGKSSQLLDATITERGAHHIFFLDIBIKGEEKKCLEIAKEIRKK	80
NTDB id 55	SMU RS08710 WP 002262114.1	MISIFVLEDDFLQGRLETTIAATMKEKNWSYKELTIFGKPPQLIDATPEKGNHQIFFLDIBIKGEEKKGLEVANQIRQH	80
consensus		*****!!! **!*!*!*!***** ** * * ***** ** ** *****!!!**!* **!* **!* **!	

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NTDB id 420	DQL23 RS10740 WP 008808031.1	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 417	SGO RS10500 WP 008808031.1	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEFKKRLEQNLYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 627	AAM18091.1 1453..2205()	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDELFKKRIEQSILYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 487	SM12261 RS09370 WP 000866073.1	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDELFKKRIEQNIFYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 250	KZH43 RS10245 WP 000866065.1	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEMFKKRIEQNIFYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 209	SPD RS10920 WP 000866065.1	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEMFKKRIEQNIFYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 175	SPR RS10400 WP 000866065.1	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEMFKKRIEQNIFYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 139	SP RS11425 WP 000866065.1	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDEMFKKRIEQNIFYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 515	SMSK321 RS0102895 WP 000866074.1	NPYAIIVFVTSRSEFATLTYYKYQVSALDFYDKDINDELFKKRIEQNIFYTKSMLENEVDVDYFDYNYKGNDLKIPYHDI	158
NTDB id 545	H702 RS02385 WP 052071091.1	SRTATIVFVTTTHSEFMLLTYRAQVSALDFIDKTDKDAIKNDKKCKQKVFEDQGF.NIPKEIFVFENNKTIRIPLEDI	158
NTDB id 542	H702 RS02345 WP 039696227.1	DPTAIIIVFVTTTHSEFMLLTYQSLVGATDFIDKNDDEAFGGRIELCKEALKY.QTGSFGESYLETAKARIRVAYDDI	159
NTDB id 51112	SPAF RS01755 WP 041826204.1	DPHATIVFVTTTHSEFMPTITFQYKVAALDFIDKTLGEEEFKERISSAIDYTLQAGT.TIAQDAFTTESAMARVQVPENKI	159
NTDB id 55	SMU RS08710 WP 002262114.1	NPSAIVFVTTTHSEFMPLTRFQYQVSALDFIDKSLNPEBFSHRIBSALYYAMENSQKNGQSEELFIHSSSETQFQVPAEII	160
consensus		***!*!!!!*! *!!!!*****!*!!!!!!***** ***** * **** ***** ***** ********* *!	

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NTDB id 420	DQL23 RS10740 WP 008808031.1	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 417	SGO RS10500 WP 008808031.1	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 627	AAM18091.1 1453..2205()	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 487	SM12261 RS09370 WP 000866073.1	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 250	KZH43 RS10245 WP 000866065.1	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 209	SPD RS10920 WP 000866065.1	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 175	SPR RS10400 WP 000866065.1	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 139	SP RS11425 WP 000866065.1	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 515	SMSK321 RS0102895 WP 000866074.1	LYIETTGVS HKLRIGKNFAKEFYGTMDIQEKDKHTQRFYSPHKSFLVNI GNIREIDRKNLEIVFYEDHRCPI SRLKIR	238
NTDB id 545	H702 RS02385 WP 052071091.1	LYFETAE.SHRLKLIITKGGQHFGYSIKEVMIANQ...KLRCHKSYLNNINIVRLDKKEGLVYFDDDKACYVSRKYIK	234
NTDB id 542	H702 RS02345 WP 039696227.1	LYFETSPTVHRVILHTKTGQTEFYGTIAEVAKSDK...RLLKCHRSFVINNVNTEFDKSTRATAYFENGSYCQVSRDKVK	236
NTDB id 51112	SPAF RS01755 WP 041826204.1	LYVETSPTIHKVILHTQEESLEFYGTIAEIKADP...RLYRCHRSFVNPQNITKDKEAKKAFFENGDCNCLISRTKYR	236
NTDB id 55	SMU RS08710 WP 002262114.1	LYFETSSTA HKLCITYTDERIEFYGSMTDIVKMDK...RLYCHRSFVNPANITRIDRKRLAYERNKSCILSRTKIT	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 487 SM12261 RS09370 WP 000866073.1	K L K D I L E K K S Q 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 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 51112 SPAF RS01755 WP 041826204.1	G L L E A L K K	244
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