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NTDB	id	1284	ACE17W	RS12370	WP	010946666.1	VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQEGKKV	225
NTDB	id	1257	GC085	RS04855	WP	163621000.1	VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQEGKKV	225
NTDB	id	1186	GTF74	RS01320	WP	000788426.1	SATANQLENIDFRVNKEKA AVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST	112
NTDB	id	1175	A1552VC	RS12105	WP	000788426.1	SATANQLENIDFRVNKEKA AVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST	112
NTDB	id	407528	GPY46	RS23585	WP	005488227.1	DVQSNALKSIDFRTNKSKDAVIVVELASPAAVDVKRVQEGLSIDLNTSVKDEQLYLLDVKDFATVVESVEVFRDSTST	113
NTDB	id	1408	DSB67	RS13980	WP	010643500.1	EVQSNALKSIDFRTNKDKDAVIVVELVSPA AIVDKRVQEGLSIDLNTSVKDDQLYLLDVKDFSTVVESVEVFRDSTST	113
NTDB	id	1193	PAKAF	RS26665	WP	003161249.1	VPAGRAIRNIDFRQGEKGE GNVVIDLSDPTLSPDIQEQQGGKIRLDFAKTQLPDLRVRLDVKDFATPVQFVNASAQSDRT	236
NTDB	id	1009	ACIAD	RS15175	WP	004923730.1	PAPQGGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVRFPGKIPKIPHTLARRLNTTDFATPVASIDSYNDGSGN	218
NTDB	id	1039	HON27	RS01460	WP	031993779.1	.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVRTIGTKIPHTLARRLNVNDFATPVSIDAYNDKGVG	217
NTDB	id	1052	ABD1	RS15850	WP	001017033.1	.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVRTIGTKIPHTLARRLNVNDFATPVSIDAYNDKGVG	217
consensus							* ****I*! * **** * !!***** * * !!***** * * !!***** * *	

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NTDB id	1284	ACE17W	RS12370	WP	010946666.1	RMTILSKGDYGHFVYQVNKKQMVDVFPLTAEIRQAQLKQQVVFTGKRISLNFNQNISIRA V LQLLADFTGINMVS D KVQG	305
NTDB id	1257	GCO85	RS04855	WP	163621000.1	RMTILSKGDYGHFVYQVNKKQMVDVFPLTAEIRQAQLKQQVVFTGKRISLNFNQNISIRA V LQLLADFTGINMVS D KVQG	305
NTDB id	1186	GTF74	RS01320	WP	000788426.1	QLLVTVTDGEFHQDYTLKGKYLEVVISKLKADEKPK.PKSIVLEKEGKLISINFDIPVRNVLQLIADYNGFNLVSDSVVG	191
NTDB id	1175	A1552VC	RS12105	WP	000788426.1	RLVVTVDGEFHQHYDTLGGYLEVVISKLADEKPK.PKSIVLEKEGKLISINFDIPVRNVLQLIADYNGFNLVSDSVVG	191
NTDB id	407528	GPY46	RS23585	WP	005488227.1	RLVAYIDEEFYHTRYLTGRYLEITVSKLPNEKVDP.KSILEKEGKLISINFDIPVRNVLQLIADYNQNFLVSDSVEG	192
NTDB id	1408	DSB67	RS13980	WP	010643500.1	RLVAYIDEDYSHDYRSLTGRYLEVVKVGKLKANAKAP.DKSILDKEGKLISINFDIPVRNVLQLIADYNQNFLVSDSVEG	192
NTDB id	1193	PAKAF	RS26665	WP	003161249.1	SITIIEPSGLYDYLVIYTNDNRILTISIKNPMTTEDAERRKKDNFAYYTEKLSLNFDIDVRSVLQLIADFDDNLVASDTVQG	316
NTDB id	1009	ACIAD	RS15175	WP	004923730.1	VTSIQSTGSYEYMAYQAENKLTISLKRPQDNV.RLNSKNNQNYTGKKISLDFFQDIEVRRVLQLIADFTNIMVTADSVMG	297
NTDB id	1039	HON27	RS01460	WP	031993779.1	VITTIQSSESYEYMAYQAENKLTISLKRPQDKN.VTSLYKTTPNVSGNKLSLDFQDIEVRRVLQLIADFTGINMVAAADVGMG	296
NTDB id	1052	ABD1	RS15850	WP	001017033.1	VITIIQSSESYEYMAYQAENKLTISLKRPQDKN.VTSLYKTTPNVSGNKLSLDFQDIEVRRVLQLIADFTGINMVAAADVGMG	296
consensus						***** * **** ** * ***** *	****!!**!!!*! !!!!!!!*

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NTDB id	1284	ACE17W	RS12370	WP	010946666.1
NTDB id	1257	GCO85	RS04855	WP	163621000.1
NTDB id	1186	GTF74	RS01320	WP	000788426.1
NTDB id	1175	A1552VC	RS12105	WP	000788426.1
NTDB id	407528	GPY46	RS23585	WP	005488227.1
NTDB id	1408	DSB67	RS13980	WP	010643500.1
NTDB id	1193	PAKAF	RS26665	WP	003161249.1
NTDB id	1009	ACIAD	RS15175	WP	004923730.1
NTDB id	1039	HON27	RS01460	WP	031993779.1
NTDB id	1052	ABD1	RS15850	WP	001017033.1
consensus					

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NTDB id 1284	ACE17W RS12370 WP 010946666.1	KDKQ.N.....	SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIIKQLDIPVKQV	434
NTDB id 1257	GCO85 RS04855 WP 163621000.1	KDKQ.N.....	SLLSDRGKISVDARTNTIWIQDTGTKIEEVRELIIKQLDIPVKQV	434
NTDB id 1186	GTF74 RS01320 WP 000788426.1	GGEENV.....	NMLSERGISISIDERTNSLLIRELPDNIIVIREIIIESLDIPVKQV	321
NTDB id 1175	A1552VC RS12105 WP 000788426.1	GGEENV.....	NMLSERGISISIDERTNSLLIRELPDNIIVIREIIIESLDIPVKQV	321
NTDB id 407528	GPY46 RS23585 WP 005488227.1	NGEGNI.....	SMLSERGSMITIDERTNSLLIRELPENIIVIREIIIESLDIPVKQV	322
NTDB id 1408	DSB67 RS13980 WP 010643500.1	NGEGNI.....	SMLSDRGSMITIDERTNSLLIRELPENIEVIREIIIESLDIPVKQV	322
NTDB id 1193	PAKAF RS26665 WP 003161249.1	QSVTSDGGQEG.....	.KEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVQRV	450
NTDB id 1009	ACIAD RS15175 WP 004923730.1	TQGRNSGTSNSN.....	TNGSATVEPLGDSVGTLLSPRGTISLDPRNTLIINDTSQKIDQIRKMIDLLDIPVKQV	448
NTDB id 1039	HON27 RS01460 WP 031993779.1	TQGSNNNSNGLQHTSGGGTSTSTNLNTGVDSLGNVVG	SLLSPRGTITQDDRNTLIINDTAQSIDQIRKMIDLLDVQVKQV	456
NTDB id 1052	ABD1 RS15850 WP 001017033.1	TQGSNNNSNGLQHTSGGGTSTSTNLNTGVDSLGNVVG	SLLSPRGTITQDDRNTLIINDTAQSIDQIRKMIDLLDVQVKQV	456
consensus		*	*****!*****!!!!***** ** *!*****!*****!	

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NTDB id 1284	ACE17W	RS12370	WP 010946666.1	LIEARIVEVT	KDFSQDIGIRWGVSRP	THL.....SGTLEG.....A.....NELAR	GTAPANVVP	LERRLNLDLAA	495	
NTDB id 1257	GCO85	RS04855	WP 163621000.1	LIEARIVEVT	KDFSQDIGIRWGVSRP	THL.....SGTLEG.....A.....NELAR	GTAPANVVP	LERRLNLDLAA	495	
NTDB id 1186	GTF74	RS01320	WP 000788426.1	QIEARIVT	VKEGNLEELGVRWGV	MSHSHSV...GGSIESNLWQKGLLA.....DDEFV	DEFLNVNLAS	384		
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	QIEARIVT	VKEGNLEELGVRWGV	MSHSHSV...GGSIESNLWQKGLLA.....DDEFV	DEFLNVNLAS	384		
NTDB id 407528	GPY46	RS23585	WP 005488227.1	QIEARIVT	ISEGNMDELGTIRWG	FTSINGNNTV...GGSIIENNLATIGLYEG....GGD	GEGEEGGDGVG	IDDFLNVNLAA	395	
NTDB id 1408	DSB67	RS13980	WP 010643500.1	QIEARIVT	INEGNMDELGVRWG	FTSINGSHTV...GGSIIENNLATIGLYDG....GGE..	GDDGGSSVG	IDDFLNVNLAA	393	
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	MIEARIVEAN	VGYDKSLGVRWGG	AYHKGWNSG...YGKDGNI	IGIKDEDMNCGPIAG	SCTFPTTGT	SKSPSPFVDLGA	525
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	MIEARIVRA	TTSFSKEMGVK	WGIILSQGINQNSNLLV	GGSETTLWNLRNP	D...SN....GTYTI...ERP	DNLNVDLGV	517
NTDB id 1039	HON27	RS01460	WP 031993779.1	MVEARIVRA	STSFTELGVK	WGIILSQGITNNNNLLV	GGSETTLWNLRNP	D...SN....GTYTI...ERP	DNLNVDLGV	530
NTDB id 1052	ABD1	RS15850	WP 001017033.1	MVEARIVRA	STSFTELGVK	WGIILSQGITNNNNLLV	GGSETTLWNLRNP	D...SN....GTYTI...ERP	DNLNVDLGV	530
consensus				*****	*****	*****	*****	*****	*****	

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NTDB id 1284	ACE17W	RS12370	WP 010946666.1	APLTGATPASVGI	ALAKLNDN	ILLDLELSALESEGRAELISSPRLITTNQQA	AVIESGEEIPYQEATSSGA...	TAVAFK	572																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1257	GCO85	RS04855	WP 163621000.1	VPLTGATPASVGI	ALAKLNDN	ILLDLELSALESEGRAELISSPRLITTNQQA	AVIESGEEIPYQEATSSGA...	TAVAFK	572																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1186	GTF74	RS01320	WP 000788426.1	T...SANASSIAFQVAKLGS	SGTLLDLELSALQNESKAEIISSPRLITTNKQP	PAYIEQGT	EIPYLESSSSGA...	STVAFK	458																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	T...SANASSIAFQVAKLGS	SGTLLDLELSALQNESKAEIISSPRLITTNKQP	PAYIEQGT	EIPYLESSSSGA...	STVAFK	458																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 407528	GPY46	RS23585	WP 005488227.1	T...NPNAASIAFQVAKLGS	SDTL	LLDLELSALQNESKAEIISSPRLITTNKQP	PAYIEQGT	EIPYLESSSSGA...	TSVTFK	469																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 1408	DSB67	RS13980	WP 010643500.1	T...SPNAT	SIAFQVAKLGS	SDTL	LLDLELSALQNESKAEIISSPRLITTNKQP	PAYIEQGT	EIPYLESSSSGA...	TSVTFK	467																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	K...DA	TSGIGIGFI	T.DN	ILDLQLSAMEK	TGNGEIVSQPKVVTSDK	ETAKILKGSEVPYQEASSGA...	TST	SFK	596																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	T...TTGASSIAFGLISL	SDF	MLDLELSALQADGYGEVISTPKVMSADKQ	KAKVATG	VEVPYQSTTNSAAGSTATT	SFK	593																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 1039	HON27	RS01460	WP 031993779.1	S...NP	AGSIAFGLISM	SDF	MLDLELSALQADGYGEVISTPKVMTADKQ	TAKVATG	QVVPYQSTTNSAAGSTATT	SFK	605																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB id 1052	ABD1	RS15850	WP 001017033.1	S...NP	AGSIAFGLISM	SDF	MLDLELSALQADGYGEVISTPKVMTADKQ	TAKVATG	QVVPYQSTTNSAAGSTATT	SFK	605																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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NTDB id 1284	ACE17W	RS12370	WP 010946666.1	KAVLSLKVTPQITPDGKILMDLQ	INQDTPSPQT.FLGVP...AIITKEI	QTNVLVNNGQTIVLGGIYKQDKNKV	INRIPF	648
NTDB id 1257	GCO85	RS04855	WP 163621000.1	KAVLSLKVTPQITPDGKILMDLQ	INQDTPSPQT.FLGVP...AIITKEI	QTNVLVNNGQTIVLGGIYKQDKNKV	INRIPF	648
NTDB id 1186	GTF74	RS01320	WP 000788426.1	KAVLSLKVTPQITPDNRLVLDLS	VTQDRRG	ETV.KTGTGEAVS	IDTQRIGTQVLVNNGETTVLGGIFQHSINNSVDKVPL	537
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	KAVLSLKVTPQITPDNRLVLDLS	VTQDRRG	ETV.KTGTGEAVS	IDTQRIGTQVLVNNGETTVLGGIFQHSINNSVDKVPL	537
NTDB id 407528	GPY46	RS23585	WP 005488227.1	KAVLSLKVTPQITPDNRLVLDLS	VTQDRPGKV	V.KTGTGEAMA	IDTQRIGTQVLVNNGETTVLGGIFQHSITNSVDKVPL	548
NTDB id 1408	DSB67	RS13980	WP 010643500.1	KAVLSLKVTPQITPDNRLVLDLS	VTQDRPGQV	V.KTGTGEAVA	IDTQRIGTQVLVNNGETTVLGGIFQHSITNSVDKVPL	546
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	EALSLLEVTPQITPDNRIIEV	EKVTKDAPDYQNMLNGVP...PINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPF			673
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	EALSLLEVTPNITPDGKILMELN	IANDSINS.YAQNGEA...ILNKNTINTNVLVNNGGETTVLGGVFEQITTNNAVTKVPF			669
NTDB id 1039	HON27	RS01460	WP 031993779.1	DALLSLNVTPSITPDGKIQMKLD	ISKDSVAG.AAPNGEL...ILNKNNINTNVLVDNGETVILGGVFEQITTMNSQT	KVPF		681
NTDB id 1052	ABD1	RS15850	WP 001017033.1	DALLSLNVTPSITPDGKIQMKLD	ISKDSVAG.AAPNGEL...ILNKNNINTNVLVDNGETVILGGVFEQITTMNSQT	KVPF		681
consensus				*!!!!!!!!!!!!!!!!	*****	*****	*****	

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☐ non conserved
☒ similar
☒ ≥ 50% conserved