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NTDB id 1284 ACE17W RS12370 WP 010946666.1	MRKIIAIIIL..ISASISLMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ	78
NTDB id 1257 GC085 RS04855 WP 163621000.1	MRKIIAIIIL..ISASISLMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ	78
NTDB id 412410 GTF75 RS01300 WP 000788426.1		0
NTDB id 1186 GTF74 RS01320 WP 000788426.1		0
NTDB id 1175 A1552VC RS12105 WP 000788426.1		0
NTDB id 1408 DSB67 RS13980 WP 010643500.1		0
NTDB id 1193 PAKAF RS26665 WP 003161249.1	MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKQLQFDEPVA.APRGYTIEQPARTIALDLPGVQNKLG..T	76
NTDB id 1009 ACIAD RS15175 WP 004923730.1	MKQIIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGGTEIRVMFNGLPP.QPQAYQLEQPARLLIDFDKAGQKLA..K	77
NTDB id 1039 HON27 RS01460 WP 031993779.1	MNHVFRQFSMGAVAIAIMQAAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLLIDFDKAQQGLK..Q	77
NTDB id 1052 ABD1 RS15850 WP 001017033.1	MNHVFRQFSMGAVAIAIMQAAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLLIDFDKAQQGLK..Q	77
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NTDB id 1284 ACE17W RS12370 WP 010946666.1	KTCTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSKE.....VFITNQV	145
NTDB id 1257 GC085 RS04855 WP 163621000.1	KTCTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSKE.....VFITNQV	145
NTDB id 412410 GTF75 RS01300 WP 000788426.1	MKNGLKT..YVAQTLWTLWVG....LALCASS.....MVFSA.E	32
NTDB id 1186 GTF74 RS01320 WP 000788426.1	MKNGLKT..YVAQTLWTLWVG....LALCASS.....MVFSA.E	32
NTDB id 1175 A1552VC RS12105 WP 000788426.1	MKNGLKT..YVAQTLWTLWVG....LALCASS.....MVFSA.E	32
NTDB id 1408 DSB67 RS13980 WP 010643500.1	MKMRHGLTLTPRKLTLGLFSLWFS....LLLAP.....FVAA.E	33
NTDB id 1193 PAKAF RS26665 WP 003161249.1	KNRELISVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNLNFVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY	156
NTDB id 1009 ACIAD RS15175 WP 004923730.1	SLIPVTTNEASSIDVSSDDKRARVVVNLKDAAGFTTRVEGNVFILKINNIQSTAT.....PVAT..SA.....	138
NTDB id 1039 HON27 RS01460 WP 031993779.1	SKISVATNEASSVDVTSDDQRSRLTVNLKDTGAFTTRVEGNTFILKINSAQTSNK.....PLPV..VS.....	138
NTDB id 1052 ABD1 RS15850 WP 001017033.1	SKISVATNEASSVDVTSDDQRSRLTVNLKDAAGFTTRVEGNTFILKINSAQTSNK.....PLPV..VS.....	138
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NTDB id 1284 ACE17W RS12370 WP 010946666.1	VNAKHEIKRIDFRGIEKQGGRLVIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV	225
NTDB id 1257 GC085 RS04855 WP 163621000.1	VNAKHEIKRIDFRGIEKQGGRLVIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV	225
NTDB id 412410 GTF75 RS01300 WP 000788426.1	SATANQLENIDFRVNKEKA AVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST	112
NTDB id 1186 GTF74 RS01320 WP 000788426.1	SATANQLENIDFRVNKEKA AVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST	112
NTDB id 1175 A1552VC RS12105 WP 000788426.1	SATANQLENIDFRVNKEKA AVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST	112
NTDB id 1408 DSB67 RS13980 WP 010643500.1	EVQSNLSKSIDFRTNKKDKDAVIVVELVSPAAIVDKIRVQEGLSIDLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTT	113
NTDB id 1193 PAKAF RS26665 WP 003161249.1	VPAGRAIRNIDFQRGEKGENVVIDLSDPTLSPDIQEQGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASDAQSDRT	236
NTDB id 1009 ACIAD RS15175 WP 004923730.1	PAPQGGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQGQSKVIRVFPGIKIPHTLARRLNTTDFATPVASIDSYNDGSNG	218
NTDB id 1039 HON27 RS01460 WP 031993779.1	.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQGQSKVVIRTIGTKIPHTLARRLNVNDFATPVSSIDAYNDKGVG	217
NTDB id 1052 ABD1 RS15850 WP 001017033.1	.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQGQSKVVIRTIGTKIPHTLARRLNVNDFATPVSSIDAYNDKGVG	217
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NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
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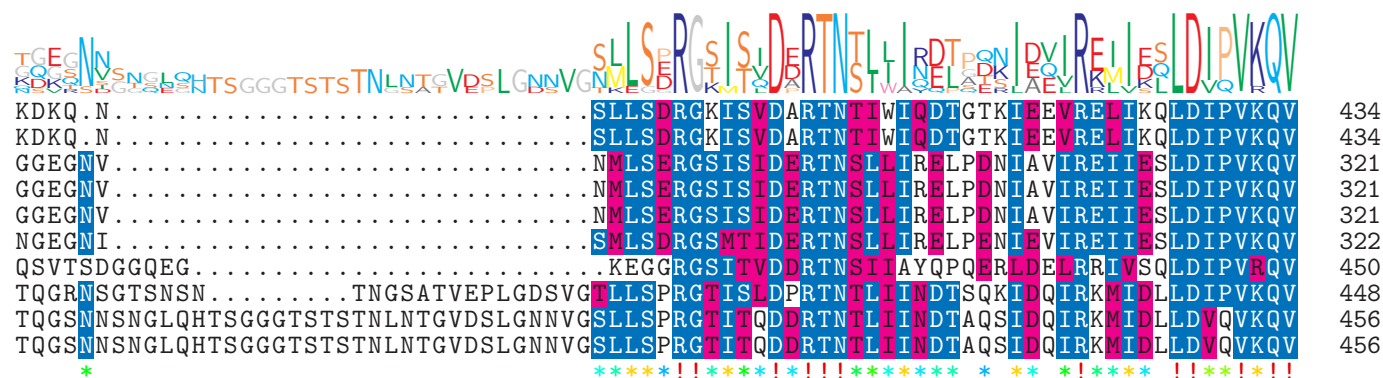


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NTDB id 1039 HON27 RS01460 WP 031993779.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
consensus

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NTDB id 1284	ACE17W	RS12370	WP 010946666.1	LIEARIVEVTKD	FSQDIGIRWGVSRP	THL.....SGTLEGA.....NELARG.TAPANVVPL.....ERRRLNLDLAA	495	
NTDB id 1257	GCO85	RS04855	WP 163621000.1	LIEARIVEVTKD	FSQDIGIRWGVSRP	THL.....SGTLEGA.....NELARG.TAPANVVPL.....ERRRLNLDLAA	495	
NTDB id 412410	GTF75	RS01300	WP 000788426.1	QIEARIVTVKEGN	LEELGVRWGV	MSTNGSHS...VGGSIESNLWQKGLLAD.....DEFPV.....DEFLNVNLAS	384	
NTDB id 1186	GTF74	RS01320	WP 000788426.1	QIEARIVTVKEGN	LEELGVRWGV	MSTNGSHS...VGGSIESNLWQKGLLAD.....DEFPV.....DEFLNVNLAS	384	
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	QIEARIVTVKEGN	LEELGVRWGV	MSTNGSHS...VGGSIESNLWQKGLLAD.....DEFPV.....DEFLNVNLAS	384	
NTDB id 1408	DSB67	RS13980	WP 010643500.1	QIEARIVTIN	EGNMDELGVRWG	FTSINGSHS...VGGSIENNLLATIGLYDGGGEG.DDGGSSVGI.....DDFLNVNLA	393	
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	MIEARIVEANV	GVDKSLGVRW	GGAYHKGWNSG...YGKDGN.IGIKDEDEGMNCGPIAGSCTFPTTGT	525	
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	MIEARIVRA	TTSFSKEMGV	KWGI	LSQGINQNSNLLVGGSETTLWNLRNPD...SN.....GT	517
NTDB id 1039	HON27	RS01460	WP 031993779.1	MVEARIVRA	STSFTELGV	KWGI	LSQGITNNNNLLVGGSETTLWNLRNPK...KDETTG	530
NTDB id 1052	ABD1	RS15850	WP 001017033.1	MVEARIVRA	STSFTELGV	KWGI	LSQGITNNNNLLVGGSETTLWNLRNPK...KDETTG	530
consensus				*****	***	*****	*****	

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NTDB id 1284	ACE17W	RS12370	WP 010946666.1	APLTG	ATP	ASVGI	ALAKLNDNI	LLDLELSAL	E	SEGRAEL	ISSPRLITTNQQA	AV	IESG	EEIPYQEATSSGA...	T	AVAFK	572																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1257	GCO85	RS04855	WP 163621000.1	VPLTG	ATP	ASVGI	ALAKLNDNI	LLDLELSAL	E	SEGRAEL	ISSPRLITTNQQA	AV	IESG	EEIPYQEATSSGA...	T	AVAFK	572																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 412410	GTF75	RS01300	WP 000788426.1	T...	S	ANASSIAFQ	VAKLGS	SGT	LLDLELSAL	Q	NESKAEI	ISSPRLITTNKQ	PAY	IEQ	G	TEIPYLESSSSGA...	S	TVAFK	458																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NTDB id 1186	GTF74	RS01320	WP 000788426.1	T...	S	ANASSIAFQ	VAKLGS	SGT	LLDLELSAL	Q	NESKAEI	ISSPRLITTNKQ	PAY	IEQ	G	TEIPYLESSSSGA...	S	TVAFK	458																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	T...	S	ANASSIAFQ	VAKLGS	SGT	LLDLELSAL	Q	NESKAEI	ISSPRLITTNKQ	PAY	IEQ	G	TEIPYLESSSSGA...	S	TVAFK	458																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NTDB id 1408	DSB67	RS13980	WP 010643500.1	T...	S	PNAT	SIAFQ	VAKLGS	SDT	LLDLELSAL	Q	NESKAEI	ISSPRLITTNKQ	PAY	IEQ	G	TEIPYLESSSSGA...	T	SVTFK	467																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	K...	D	A	TSGIG	GFI	T.DNI	I	LDLQLS	A	M	E	K	TGNGEIV	SQPKVVT	SDK	E	TAKILKG	S	EV	PYQEASSGA...	T	S	T	S	F	K	596																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	T...	T	T	GASSIAFGLIS	L	S	D	F	M	L	D	L	E	L	S	A	L	Q	A	D	G	Y	G	E	V	I	S	T	P	K	V	M	S	A	D	K	Q	A	K	V	A	T	G	V	E	V	P	Y	Q	S	T	T	N	S	A	A	G	S	T	A	T	T	S	F	K	593																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1039	HON27	RS01460	WP 031993779.1	S...	S	...	N	P	A	G	S	I	A	F	G	L	I	S	M	S	D	F	M	L	D	L	E	L	S	A	L	Q	A	D	G	Y	G	E	V	I	S	T	P	K	V	M	T	A	D	K	Q	T	A	K	V	A	T	G	Q	V	P	Y	Q	S	T	T	N	S	A	A	G	S	T	A	T	T	S	F	K	605																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB id 1052	ABD1	RS15850	WP 001017033.1	S...	S	...	N	P	A	G	S	I	A	F	G	L	I	S	M	S	D	F	M	L	D	L	E	L	S	A	L	Q	A	D	G	Y	G	E	V	I	S	T	P	K	V	M	T	A	D	K	Q	T	A	K	V	A	T	G	Q	V	P	Y	Q	S	T	T	N	S	A	A	G	S	T	A	T	T	S	F	K	605																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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NTDB id 1284	ACE17W	RS12370	WP 010946666.1	KAVLSLKVTPQITPDG	KILMDLQ	INQDTPSPQT.FLGVP...AIITKEIQTNVLVNNGQTIVLGGIYKQDKNKV	INRIPF	648
NTDB id 1257	GCO85	RS04855	WP 163621000.1	KAVLSLKVTPQITPDG	KILMDLQ	INQDTPSPQT.FLGVP...AIITKEIQTNVLVNNGQTIVLGGIYKQDKNKV	INRIPF	648
NTDB id 412410	GTF75	RS01300	WP 000788426.1	KAVLSLKVTPQITPDN	NRLVLDLS	VTQDRRG	ETV.KTGTGEAVSIDTQRIGTQVLVNNGETTVLGGIFQHSINNSVDKVPL	537
NTDB id 1186	GTF74	RS01320	WP 000788426.1	KAVLSLKVTPQITPDN	NRLVLDLS	VTQDRRG	ETV.KTGTGEAVSIDTQRIGTQVLVNNGETTVLGGIFQHSINNSVDKVPL	537
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	KAVLSLKVTPQITPDN	NRLVLDLS	VTQDRRG	ETV.KTGTGEAVSIDTQRIGTQVLVNNGETTVLGGIFQHSINNSVDKVPL	537
NTDB id 1408	DSB67	RS13980	WP 010643500.1	KAVLSLKVTPQITPDN	NRLVLDLS	VTQDRP	CQVV.KTGTGEAVSIDTQRIGTQVLVNNGETTVLGGIFQHSITNSVDKVPL	546
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	EALSL	LEVTPQITPDNRIIVEVKVTKDAPDYQNMLNGVP...PINKNEVNAKILVNDGETIVIGGVFSNEQSKSVEKVPF			673
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	EALSL	LEVTPNITPDGKILMELN	IANDSINS.YAQNGEA...ILNKNTINTNVLVNNGGETTVLGGVFEQITTNNAVTKVPF		669
NTDB id 1039	HON27	RS01460	WP 031993779.1	DALLSLN	VTPSITPDGKIQMKLD	ISKDSVAG.AAPNGEL...ILNKNNINTNVLVNGETVILGGVFEQITTMNSQTKVPF		681
NTDB id 1052	ABD1	RS15850	WP 001017033.1	DALLSLN	VTPSITPDGKIQMKLD	ISKDSVAG.AAPNGEL...ILNKNNINTNVLVNGETVILGGVFEQITTMNSQTKVPF		681
consensus				*!!!!!!!!!!!!!!!! *!!!! *!!!! *				

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X non conserved
X similar
X ≥ 50% conserved