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NTDB id 1306	DR	RS10060	WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	79
NTDB id 1028	TT	RS08215	WP 011173991.1	MSVLTIGDKRLGAAALLDAGLLTDEELQRALERHREVEGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1384	A4U84	RS08525	WP 010787006.1	.....	0
NTDB id 1118735	ELZ63	RS02020	WP 065244997.1	.....	0
NTDB id 1355	HI	0298	AAC21962.1	.....	0
NTDB id 1366	NTHI	RS01950	WP 011271972.1	.....	0
NTDB id 1168	A1552VC	RS11070	WP 000957200.1	.....	0
NTDB id 1401	DSB67	RS12665	WP 010643259.1	.....	0
NTDB id 1293	VP	RS12240	WP 005479695.1	.....	0
NTDB id 1110	NGFG	RS09235	WP 003689817.1	.....	0
NTDB id 1251	GCO85	RS07725	WP 011946523.1	.....	0
NTDB id 1018	ACIAD	RS01685	WP 004920473.1	0
NTDB id 1058	ABD1	RS01615	WP 001274986.1	0
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				RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA	
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NTDB id 1028	TT	RS08215	WP 011173991.1	158
NTDB id 1384	A4U84	RS08525	WP 010787006.1	0
NTDB id 1118735	ELZ63	RS02020	WP 065244997.1	0
NTDB id 1355	HI	0298	AAC21962.1	0
NTDB id 1366	NTHI	RS01950	WP 011271972.1	0
NTDB id 1168	A1552VC	RS11070	WP 000957200.1	0
NTDB id 1401	DSB67	RS12665	WP 010643259.1	0
NTDB id 1293	VP	RS12240	WP 005479695.1	0
NTDB id 1110	NGFG	RS09235	WP 003689817.1	0
NTDB id 1251	GCO85	RS07725	WP 011946523.1	0
NTDB id 1018	ACIAD	RS01685	WP 004920473.1	0
NTDB id 1058	ABD1	RS01615	WP 001274986.1	0
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				SDAGRTGGKLGGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEQEGTTFLPNPSGFHPGEEVL	
NTDB id 1306	DR	RS10060	WP 027479822.1	SGEGQKDKLKGELLQKQGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSSAA	237
NTDB id 1028	TT	RS08215	WP 011173991.1	.....	237
NTDB id 1384	A4U84	RS08525	WP 010787006.1	.....	0
NTDB id 1118735	ELZ63	RS02020	WP 065244997.1	.....	0
NTDB id 1355	HI	0298	AAC21962.1	.....	0
NTDB id 1366	NTHI	RS01950	WP 011271972.1	.....	0
NTDB id 1168	A1552VC	RS11070	WP 000957200.1	.....	0
NTDB id 1401	DSB67	RS12665	WP 010643259.1	.....	0
NTDB id 1293	VP	RS12240	WP 005479695.1	.....	0
NTDB id 1110	NGFG	RS09235	WP 003689817.1	.....	0
NTDB id 1251	GCO85	RS07725	WP 011946523.1	.....	0
NTDB id 1018	ACIAD	RS01685	WP 004920473.1	0
NTDB id 1058	ABD1	RS01615	WP 001274986.1	0
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NTDB id 1306	DR RS10060 WP 027479822.1	GSMLRADALRLLAVPVDETEGGVTVLTSDPRKRPDIDALIGRPVQMLTRPRDIERLIEQFYPQGRGLGELVQEGTLSR	317
NTDB id 1028	TT RS08215 WP 011173991.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYLALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1118735	ELZ63 RS02020 WP 065244997.1	.....	0
NTDB id 1355	HI 0298 AAC21962.1	.....	0
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401	DSB67 RS12665 WP 010643259.1	0
NTDB id 1293	VP RS12240 WP 005479695.1	0
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NTDB id 1251	GCO85 RS07725 WP 011946523.1	0
NTDB id 1018	ACIAD RS01685 WP 004920473.1	0
NTDB id 1058	ABD1 RS01615 WP 001274986.1	0
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NTDB id 1306	DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEVTELGFASPDEVDSALQKQNVGGGRLEDTLVQSCKISPEMARSAAQLGYEFLDPIQ	397
NTDB id 1028	TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGEIVELGLARPEDVEEALQKQRRGGGRLEDTLVQSCKIRPEALAAQAVATQLGYPYVDPEE	397
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	16
NTDB id 1118735	ELZ63 RS02020 WP 065244997.1	.....	21
NTDB id 1355	HI 0298 AAC21962.1	.....	21
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	21
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....MLTNLVAIDRQAEELISATQEAVVTQVVSASGTSVPEADLELSIFHAQELTEQISHIFGLPETDLSR	66
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....MLTNLSTVLRQAGILTFSSQEESSLEQVKASGISMPEALLSSGFFQSHETHEHSSVFGLSCTSLNQ	66
NTDB id 1293	VP RS12240 WP 005479695.1	.....MHSNLSTILRQKGLLTFSSQEESSLEQVKASGISMPEALLSSGFFTSSELAEHSSVFGLSQPQLSQ	66
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....MSVGLLRILVQNQVVTVQAEHYYNESQAGKEVLPMLFSDGVISPKSLAALIAVRFYSYILDLRH	65
NTDB id 1251	GCO85 RS07725 WP 011946523.1	.....MALATEEYRLQGIGQLVLEKLLDKTKAIELHKLAAAEEKISLLQYLVKNKILSAEQIALTAQNFQVPMLDINC	74
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDTPVYLDNFSISPLTIAEISLEFGEPLLDLGV	74
NTDB id 1058	ABD1 RS01615 WP 001274986.1MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTPVAYLIEEVHISPSLLAETISAEFAEYFVLDV	74
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NTDB id 1384	A4U84 RS08525 WP 010787006.1	ISPSRWQKNCEEKQLLLRYLAVPVQETEHKLLAVDDENMLTACEIFAFMTH.....KQTEPVVIVASDEIKYLDNAISPE	91
NTDB id 1118735	ELZ63 RS02020 WP 065244997.1	ISPDLWERNRQQQSLLLRYFALPLKEENNRLWLGVDLSLSNLSACETIAFITG.....KPVEPILLESSQLKELLQQLAPN	96
NTDB id 1355	HI 0298 AAC21962.1	ISPDLWERNRQQQSLLLRYFALPLKEENNRLWLGVDLSLSNLSACETIAFITG.....KPVEPILLESSQLKELLQQLTPN	96
NTDB id 1366	NTHI RS01950 WP 011271972.1	ISPDLWERNRQQQSLLLRYFALPLKEENNRLWLGVDLSLSNLSACETIAFITG.....KPVEPILLESSQLKELLQQLTPH	96
NTDB id 1168	A1552VC RS11070 WP 000957200.1	YDYANLCQQTLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEIEFRFATG.....LQVELLADHRAALQAAIRRLYGR	141
NTDB id 1401	DSB67 RS12665 WP 010643259.1	YEYASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEEDFRFATG.....LQVELVLADFRELTAARRLYGR	141
NTDB id 1293	VP RS12240 WP 005479695.1	YEYASLCQQTLGLRELITRHNALPLHRTPSTLLAVADPTNLQAEEDFRFATG.....LQVELVLADFRELSTARRLYGR	141
NTDB id 1110	NGFG RS09235 WP 003689817.1	YPRHRVLMGVLTEEQMVVHCVPVFRRGDKVFAVSDPTQMPQIQKTVSAAQ.....IAVELVIVEDDQLAGLDWVGSR	140
NTDB id 1251	GCO85 RS07725 WP 011946523.1	IDVGTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDPSKQASLKEIQFHTG.....LNTHAIVVETDKLSALIDNLT	149
NTDB id 1018	ACIAD RS01685 WP 004920473.1	FDPALFLKDKIDEKLIQKVRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSK.....LKVEPIVEHDKLERLSEHFVE	149
NTDB id 1058	ABD1 RS01615 WP 001274986.1	YDTSQIPKDLVDQKLLKRRILPLIQRGQILYVATSNPSNIEATDAIRFNSK.....LLVEPVIVEHDKLERLSEHFVE	149
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NTDB id 1306 DR RS10060 WP 027479822.1	KGFEKLNKELA.....ERNKTTQQSQEADLSVAD	ESATVQVVDSTIREAALQDASDIHIEETTEDAVKVRVRI	DGA	541
NTDB id 1028 TT RS08215 WP 011173991.1	AELSEIAKEFA.....KKQAEIEEV..PSPLELD	ESAAQKFVKQVIREAFLQDASDIHIEPRQNDVQVR	IRIDGA	544
NTDB id 1384 A4U84 RS08525 WP 010787006.1	QQPIY..E.....ESELAFVEQEQE..QLNLNDP	LIQLLDNLFKFCIAQNASDIHIEPRKQKLIIRIR	IDGV	154
NTDB id 1118735 ELZ63 RS02020 WP 065244997.1	QPKVE..E.....QVK.YYQHQEQSHLEQQD	DEPVIRLLNQIFESALQKNASDIHLETADQFQVR	FRIDGV	160
NTDB id 1355 HI 0298 AAC21962.1	QMQVE..E.....QVK.FYQHQEQ..THFEQED	DEPVIRLLNQIFESALQKNASDIHLETADQFQVR	FRIDGV	159
NTDB id 1366 NTHI RS01950 WP 011271972.1	QMQVE..E.....QVK.FYQHQEQ..THFEQED	DEPVIRLLNQIFESALQKNASDIHLETADQFQVR	FRIDGV	159
NTDB id 1168 A1552VC RS11070 WP 000957200.1	SIQGAANQGKEISQ..DELANLVKVSDDDELQSI	EDLSQDDSPVSRFINQVILLAVRKGASDIHFEP	YENQVRIIRRC	219
NTDB id 1401 DSB67 RS12665 WP 010643259.1	SLGQEKSGLKEINQ..DELAGLVDIGEDEINIED	LSQDDSPVSRFINQVILLAVRKGASDIHFEP	YENMYRVRIR	219
NTDB id 1293 VP RS12240 WP 005479695.1	NTDB id 1110 NGFG RS09235 WP 003689817.1	NTDB id 1251 GC085 RS07725 WP 011946523.1	NTDB id 1018 ACIAD RS01685 WP 004920473.1	NTDB id 1058 ABD1 RS01615 WP 001274986.1
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NTDB id 1306 DR RS10060 WP 027479822.1	LREQNSFPKGAQQIMARLKIIMGHLDIAERRVP	QDGRVHF..KGSIDLRLSTLPTVYGEKAVMRL	LQKASNIPELE	619
NTDB id 1028 TT RS08215 WP 011173991.1	LRPYSTLPK GALNAVISVVKIMGGNIAEKRLP	QDGRVRYE..EGAIDVDRSTLPTVYGEKAVMRL	LKKASDIPEIED	622
NTDB id 1384 A4U84 RS08525 WP 010787006.1	LHLYKSLSIQIASRIISRLKLLAKLDISENRLP	QDGRFQFSTTAL.ADTDFRVSSLPTLYGEKIVL	RQKNKPTSFFDLQ	233
NTDB id 1118735 ELZ63 RS02020 WP 065244997.1	LQPQPLISKIFANRIISRLKLLAKLDISENRLP	QDGRFQFSTTAL.ADTDFRVSSLPTLYGEKIVL	RQKNKPTSFFDLQ	239
NTDB id 1355 HI 0298 AAC21962.1	LQPQPLISKIFANRIISRLKLLAKLDISENRLP	QDGRFQFSTTAL.ADTDFRVSSLPTLYGEKIVL	RQKNKPTSFFDLQ	238
NTDB id 1366 NTHI RS01950 WP 011271972.1	LQPQPLISKIFANRIISRLKLLAKLDISENRLP	QDGRFQFSTTAL.ADTDFRVSSLPTLYGEKIVL	RQKNKPTSFFDLQ	238
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LVETQQPASHISRRLAARIKLISKLDIAERRLP	QDGRVRLRSR.DTAIMRVSTLPTLWGEKIVLRL	LDSSAANLDTDK	298
NTDB id 1401 DSB67 RS12665 WP 010643259.1	LIEIQQPSSHISRRLSARIKLISKLDIAERRLP	QDGRVRLRSR.DTAIMRVSTLPTLWGEKIVLRL	LDSSAANLDTDK	298
NTDB id 1293 VP RS12240 WP 005479695.1	LIEIQQPSSHISRRLSARIKLISKLDIAERRLP	QDGRVRLRSR.DTAIMRVSTLPTLWGEKIVLRL	LDSSAANLDTDK	298
NTDB id 1110 NGFG RS09235 WP 003689817.1	LREVVQPPPIAVRGQLSRRIKVMSRLDISEKR	VPDGRMLTFQKGGKPVDFRVSTLPTLWGEKIV	MLNSDAASLIDQ	289
NTDB id 1251 GC085 RS07725 WP 011946523.1	LHEVATPPASSRITARIKVMNSLDISEKRVP	QDGRVRLRSR.DTAIMRVSTLPTLWGEKIVM	RVLDSSAANKGTEA	307
NTDB id 1018 ACIAD RS01685 WP 004920473.1	LRLIATPPLQLATRIASRLKVMNSLDISEKR	VPDGRVRLRSR.DTAIMRVSTLPTLWGEKIV	MLNSDAASLIDQ	302
NTDB id 1058 ABD1 RS01615 WP 001274986.1	LRQIANPPLQLANRIASRLKVMNSLDISEKR	VPDGRVRLRSR.DTAIMRVSTLPTLWGEKIV	MLNSDAASLIDQ	302
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NTDB id 1028 TT RS08215 WP 011173991.1	LCGFAPGVFEREKEVTSKPYGIFLVGTPTGSGKS	FTCFSTLKRIAKPEKNTTIEDPVEYEPGIVQS	QVMNSTGMTFARA	702
NTDB id 1384 A4U84 RS08525 WP 010787006.1	LCGFNPQQQTTLNALKQPQGLILVTGPTGSGKSI	TLYSALNYLNQMDKHILTAEDPVEIETDGLI	IQTVNRSIQLDFSQL	313
NTDB id 1118735 ELZ63 RS02020 WP 065244997.1	LCGTMESQQQAFQCALSQPQGLILVTGPTGSGKSI	SLYALQWLNTPKHIMTAEDPVEIETDGLI	IQSQINPQIGLDFNRL	319
NTDB id 1355 HI 0298 AAC21962.1	LCGTMENQQQAFQRLVLSQPQGLILVTGPTGSGKSI	SLYALQWLNTPKHIMTAEDPVEIETDGLI	IQSQINPQIGLDFNRL	318
NTDB id 1366 NTHI RS01950 WP 011271972.1	LCGTMENQQQAFQRSLSQPQGLILVTGPTGSGKSI	SLYALQWLNTPKHIMTAEDPVEIETDGLI	IQSQINPQIGLDFNRL	318
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LCGYNPQQKQLYLNALKRPQGMILVTGPTGSGKTV	SLYTLRLILNTSQINISTAEDPVEINLSGIN	QVQPKIGFGFAEA	378
NTDB id 1401 DSB67 RS12665 WP 010643259.1	LCGYSDSQKQLYLDALRRPQGMILVTGPTGSGKTV	SLYTLGLSILNKPEINISTAEDPVEIYLP	PGINQVQVQPKIGFGFAEA	378
NTDB id 1293 VP RS12240 WP 005479695.1	LCGYSEQQKQLYLEALRRPQGMILVTGPTGSGKTV	SLYTLGLNMLNKPEINISTAEDPVEINLS	GINQVQVQPKIGFGFAEA	378
NTDB id 1110 NGFG RS09235 WP 003689817.1	LCGFEPQKKLLLEATHRPYCMVLVTGPTGSGKTV	SLYTLGLNMLNTESVNIATAEDPAEINLP	GINQVQVQPKIGLTFAAA	369
NTDB id 1251 GC085 RS07725 WP 011946523.1	LCGFNPVQRNFMALIRPQGMILVTGPTGSGKTV	SLYTLGLNMLNTEHVNISTAEDPVEIKV	PGINQVQVQPKIGLTFAAA	387
NTDB id 1018 ACIAD RS01685 WP 004920473.1	LCGYEPEQKALFMEALNKPQGMILVTGPTGSGKTV	SLYTLGLNMLNTEHVNISTAEDPVEINL	EGINQVQVQPKIGLTFAAA	382
NTDB id 1058 ABD1 RS01615 WP 001274986.1	LCGYEEDQKALFMEALDKPQGMILVTGPTGSGKTV	SLYTLGLNMLNTESSNISTAEDPVEINL	EGINQVQVQPKIGLTFAAA	382
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NTDB id 1306 DR RS10060 WP 027479822.1
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 NTDB id 1168 A1552VC RS11070 WP 000957200.1
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 NTDB id 1293 VP RS12240 WP 005479695.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
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 NTDB id 1058 ABD1 RS01615 WP 001274986.1

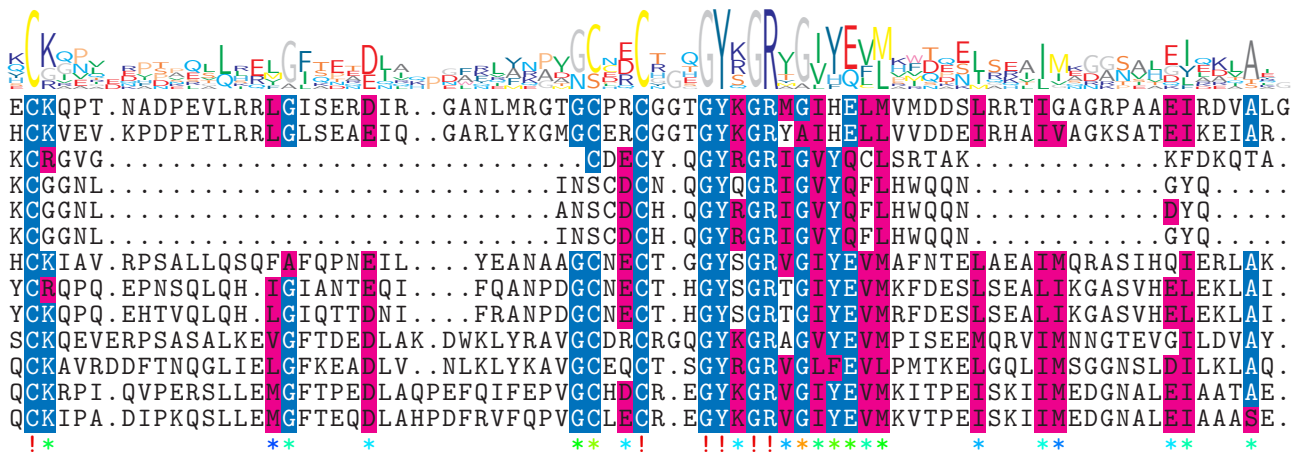


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NTDB id 1306 DR RS10060 WP 027479822.1
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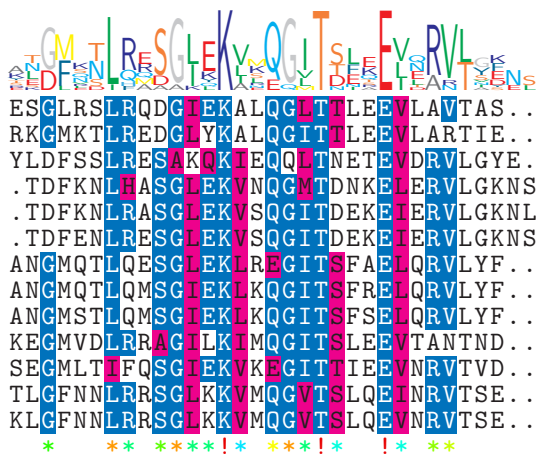


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NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1384 A4U84 RS08525 WP 010787006.1
 NTDB id 1118735 ELZ63 RS02020 WP 065244997.1
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 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1



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889
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consensus

 non conserved
 similar
 $\geq 50\%$ conserved