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				MSXLSIIGDRRLGAAALLDQGYLDRNQLQRALERHSEVGGRLAEVLYDSQYERERIASXIEERFGIPLVQLHRVENSPPKXK	
NTDB id 1306	DR	RS10060	WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	79
NTDB id 1028	TT	RS08215	WP 011173991.1	MSVLTIGDKRLGAAALLDAGLLTDEELQRALERHREVGGS�AEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1384	A4U84	RS08525	WP 010787006.1	.....	0
NTDB id 71323	CHBNTHi	RS04075	WP 005666685.1	.....	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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				RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLIIVVPSGA	
NTDB id 1306	DR	RS10060	WP 027479822.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVPEYQTTKSAFLYALAKHYPELGLPVPPP..P	157
NTDB id 1028	TT	RS08215	WP 011173991.1	158
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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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				SDAGRTGGKLGGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	
NTDB id 1306	DR	RS10060	WP 027479822.1	SGEGQKDKLKGELLQKQGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSSAA	237
NTDB id 1028	TT	RS08215	WP 011173991.1	237
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NTDB id 71323	CHBNTHi	RS04075	WP 005666685.1	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 GSMLRADALRLLAVPVDETEGGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGELVQEGELSR 317

NTDB id 1028 TT RS08215 WP 011173991.1 LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYLALPQAWHEELFRRAYPQKNRNLGELVQEGKLSR 317

NTDB id 1384 A4U84 RS08525 WP 010787006.1

NTDB id 71323 CHBNTHi RS04075 WP 005666685.1

NTDB id 1355 HI 0298 AAC21962.1

NTDB id 1366 NTHI RS01950 WP 011271972.1

NTDB id 1168 A1552VC RS11070 WP 000957200.1

NTDB id 1401 DSB67 RS12665 WP 010643259.1

NTDB id 1293 VP RS12240 WP 005479695.1

NTDB id 1110 NGFG RS09235 WP 003689817.1

NTDB id 1251 GCO85 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 DQLREALQVQAREGKVKPLGEVTELGFASPDEVDSALQKQNVGGGRIEDTLVQSCKISPEMARSAAQLGYEFLDPIQ 397

NTDB id 1028 TT RS08215 WP 011173991.1 EALKEALEVQKGLPRAKPLGEIVELGLARPEDVEEALQKQRRGGGRIEDTLVQSCKIRPEALAAQAVATQLGYPYVDPEE 397

NTDB id 1384 A4U84 RS08525 WP 010787006.1

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NTDB id 1355 HI 0298 AAC21962.1

NTDB id 1366 NTHI RS01950 WP 011271972.1

NTDB id 1168 A1552VC RS11070 WP 000957200.1

NTDB id 1401 DSB67 RS12665 WP 010643259.1

NTDB id 1293 VP RS12240 WP 005479695.1

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NTDB id 1058 ABD1 RS01615 WP 001274986.1

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NTDB id 1306 DR RS10060 WP 027479822.1 NPPDPKVALIPEATARRVVVIVRLQGNLSVAMKDFRNWFALDDKLLITG....KELIPAVMAEKDIRLIERFYFGE 472

NTDB id 1028 TT RS08215 WP 011173991.1 DPPDPGAPLILPEDICRRYGVFPHRLEGNRLVLLMKDPRNLALDDVRLALKRKGLNYEVAPAVATEAAITKLIERFYGK 477

NTDB id 1384 A4U84 RS08525 WP 010787006.1 ISPSRWQKNCEEKQLLLRYLAVPVQETEHKLLAVDDENMLTACEIFAFMTH....KQIEPVVIVASDEIKYLDNAISPE 91

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NTDB id 1355 HI 0298 AAC21962.1 ISPDLWERNQQQSSLLRYFALPLKEENNRLWLGVDLSLSNLSACETIAFITG....KPVEPILLESSQLKELLQQLTPN 96

NTDB id 1366 NTHI RS01950 WP 011271972.1 ISPDLWERNQQQSSLLRYFALPLKEENNRLWLGVDLSLSNLSACETIAFITG....KPVEPILLESSQLKELLQQLTPH 96

NTDB id 1168 A1552VC RS11070 WP 000957200.1 YDYANLCQQIGLRELITRYDALPIAKQGNLLAVSDPTLLQAEEEFRFATG....LQVELALADHRAALQAATRRLYGR 141

NTDB id 1401 DSB67 RS12665 WP 010643259.1 YEYASLCQTLGLRDLITRHNAIPLNRTSSTLILAVADPTNLQAEDDFRFATG....LQVELVLADEFRELTAATRRLYGR 141

NTDB id 1293 VP RS12240 WP 005479695.1 YEYASLCQQIGLRELITRHNAIPLHRTPSTLLAVADPTNLQAEDDFRFATG....LQVELVLADEFRELSTATRRLYGR 141

NTDB id 1110 NGFG RS09235 WP 003689817.1 YPRHRVLMGVLTEEQMVVHCVVFRRGDKVFAVSDPTQMPQIQKTVSAAG....IAVELVIVEDDQLAGLDWVGRS 140

NTDB id 1251 GCO85 RS07725 WP 011946523.1 IDVGTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDPSKQASLKEIQFHTG....LNTHAIVVETDKLSALIDNLT 149

NTDB id 1018 ACIAD RS01685 WP 004920473.1 FDPALFLKDKIDEKLIKQYRIMPLVHRGHVLYVATSNPTNTEAMDAIRFNSK....LKVEPIVEHDKLERLISEHFVE 149

NTDB id 1058 ABD1 RS01615 WP 001274986.1 YDTSQIPKDLVDQKLIKHRILPLIQRGQILYVATSNPSNTEAIDAIRFNSK....LLVEPIVEHDKLERLIGQHFVE 149

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NTDB id 1306 DR RS10060 WP 027479822.1
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 NTDB id 1384 A4U84 RS08525 WP 010787006.1
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 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1

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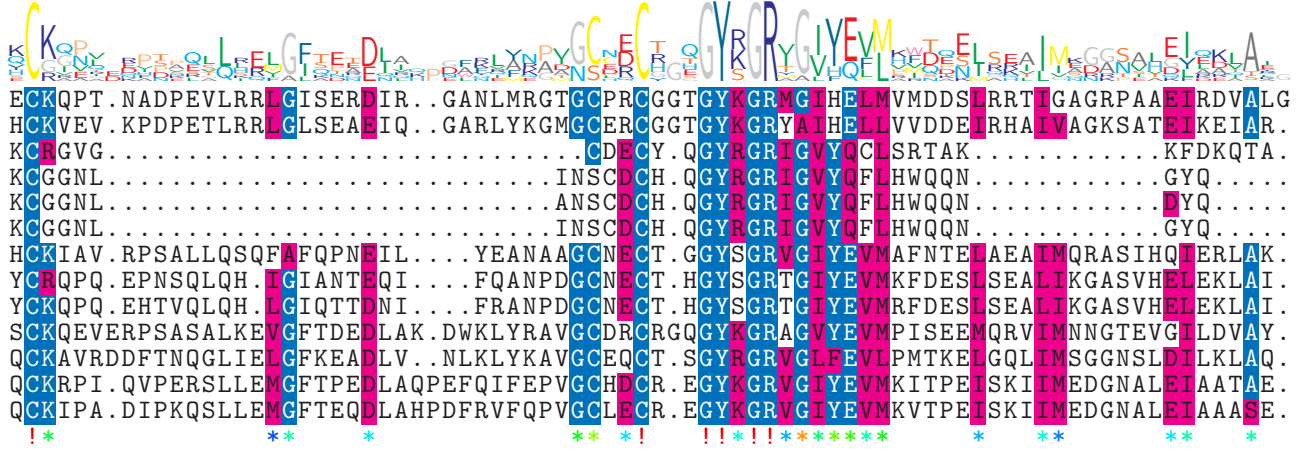


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 NTDB id 1384 A4U84 RS08525 WP 010787006.1
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consensus

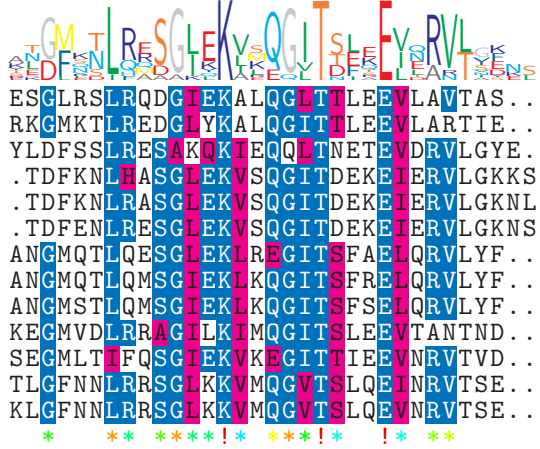


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NTDB id 1306 DR RS10060 WP 027479822.1
 NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1384 A4U84 RS08525 WP 010787006.1
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 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 NTDB id 1058 ABD1 RS01615 WP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

consensus



887
889
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464
464
562
561
561
558
574
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570

 non conserved
 similar
 $\geq 50\%$ conserved