

logo

	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGS LAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGS LAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1410 SGL RS13950 WP 010873519.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1161520 ACLMBN RS13320 WP 411354443.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	0
consensus		

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	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLD TLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLD TLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	160
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NTDB id 1058 ABD1 RS01615 WP 001274986.1	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	0
consensus		

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	EGQKDLKLGELLQKGI SREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL	
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NTDB id 1401 DSB67 RS12665 WP 010643259.1	0
NTDB id 1251 GCO85 RS07725 WP 011946523.1	0
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NTDB id 1018 ACIAD RS01685 WP 004920473.1	0
consensus		

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NTDB id 1028 TT RS08215 WP 011173991.1	LRSDALRYGAVPIGFQNGEVEEVVLSDPRHKEAVAQLLNRPARFYALALPQAVEELFRRAYPQKNRNLGEVLVQEGKLSRREAL	320
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NTDB id 1018 ACIAD RS01685 WP 004920473.1	0
consensus		

logo

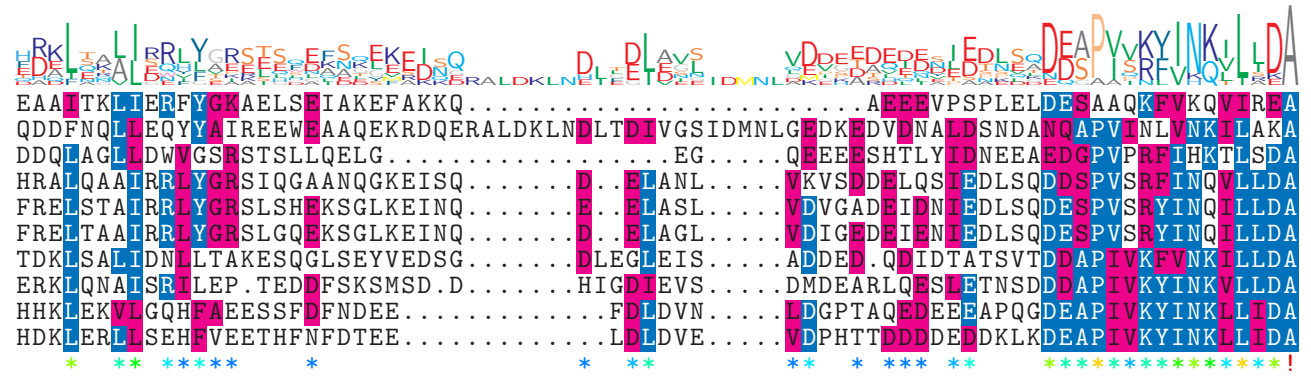
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NTDB id 1110 NGFG RS09235 WP 003689817.1MSVGLLRILVQNGVVIVTEQAEHYNE.SQAGKEVLPMLFSD..GVI SPKSLAA.....LIARVFSYS	59
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....MLINLVAIILRQAE LISATQEQA VVTQVSASGTSVPEALLEL..SIFHAQELTE.....QLSHIFGLP	60
NTDB id 1293 VP RS12240 WP 005479695.1	.....MHSNLSTILRQKGLLTFSSQEE SLIEQVKASGISMPEALLSS..GFFTISSELAE.....HLSSIFGLS	60
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....MLINLSTVLRQAGILTFSSQEE SLIEQVKASGISMPEALLSS..GFFQSHELTE.....HLSSVFGLS	60
NTDB id 1251 GC085 RS07725 WP 011946523.1	...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEEKISLLQYIVKN..KILSAEQIAL.....TAAQNFVGP	68
NTDB id 1161520 ACLMBN RS13320 WP 411354443.1	...MIQHDQSVSLIQEKARNEKKTLLVTYLIDN..NIISSSQLAE.....LCELEYGIP	47
NTDB id 1058 ABD1 RS01615 WP 001274986.1	..MSALHTSPKFTGFFRRLVVEEKHVSAAATMQTALDAAKRAKQDVTAVYLIEE..VHLSPSLLAE.....TISAFAEP	68
NTDB id 1018 ACIAD RS01685 WP 004920473.1	...MSAFTTTPKFGFIRRLVVEECYVNAQNMQAALAKKFKKQDITVPLYLIDN..FSISPLTIAE.....IISLFEVGP	68
consensus	* * *** **** * *** * * **** *	

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NTDB id 1028 TT RS08215 WP 011173991.1	YVDPEEDPPD....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLLMKDPRNILALDDVRLALKRKGGLNYEVAPAVAT	463
NTDB id 1410 SGL RS13950 WP 010873519.1	SVDPEVAPIATQMAEILGRFFPLDTCRRFKFLPLAQEGDPPSVLVMVDPDNLAAQDEINRILRVKGFELRRLLVVT	164
NTDB id 1110 NGFG RS09235 WP 003689817.1	ILDLRHVPRH....RVLMGVLTTEEQMVFEHCVPVFRRG...DKVFFAVSDPTQMPQIQKTV...SAAGIA...VELVIVE	126
NTDB id 1168 A1552VC RS11070 WP 000957200.1	ETDLSRVDYA....NLCQQLGLRELITRYDALPIAKQG...NLLLAVSDPTLLQAEFEFR...FATGLQ...VELALAD	127
NTDB id 1293 VP RS12240 WP 005479695.1	QPELSQYEYA....SLCQQLGLRELITRHNALPLHRT...STLLLAVADPTNQAEDDFR...FATGLQ...VELVLAD	127
NTDB id 1401 DSB67 RS12665 WP 010643259.1	CTSLNQYEA....SLCQQLGLRLDLITRHNALPLNR...STLILAVADPTNLQAEDDFR...FATGLQ...VELVLAD	127
NTDB id 1251 GC085 RS07725 WP 011946523.1	MLDINCIDVG....TIPQNLVNEKLIKRHAMVPLFVRG...TNLYLATDDPSKQASLKEIQ...FHTGLN...THAIVVE	135
NTDB id 1161520 ACLMBN RS13320 WP 411354443.1	LIDLDAFELS....EIPHKYLNAKLIKHHALPIYTQG...NTLYIALSDPTNITALEDFG...FNFNH...TEALLVD	114
NTDB id 1058 ABD1 RS01615 WP 001274986.1	YFDLDVYDTS....QIPKDLVDQKLILKHKRILPLIQRG...QILYVATSNPSNIEAIDAIR...FNSKLL...VEPVIVE	135
NTDB id 1018 ACIAD RS01685 WP 004920473.1	LIDLGVDPDA....LFLKDKIDEKLIQKYRIMPLVHRG...HVLYVATSNPTNIEAMD AIR...FNSKLL...VEPIIVE	135
consensus	*** ** * * ** *** ** *! * * * *****!*** ***** * **** ** ****	

logo

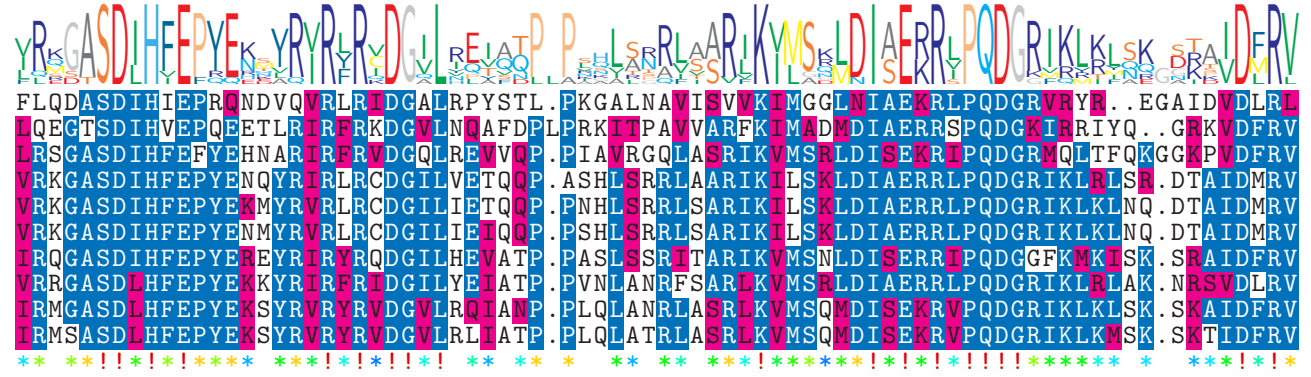
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 consensus



518
244
183
193
193
193
202
180
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197

logo

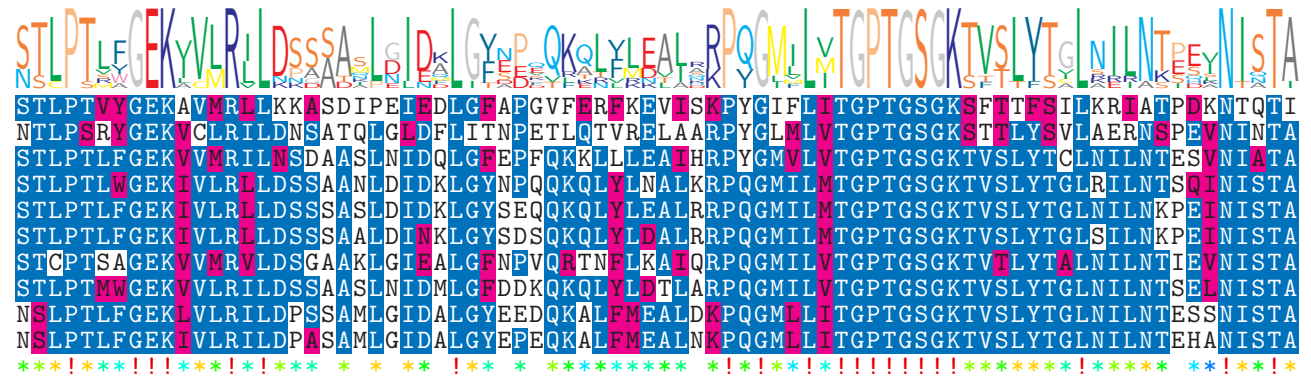
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 NTDB id 1161520 ACLMBN RS13320 WP 411354443.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 consensus



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logo

NTDB id 1028 TT RS08215 WP 011173991.1
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 NTDB id 1161520 ACLMBN RS13320 WP 411354443.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 consensus



675
402
342
351
351
351
360
338
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logo

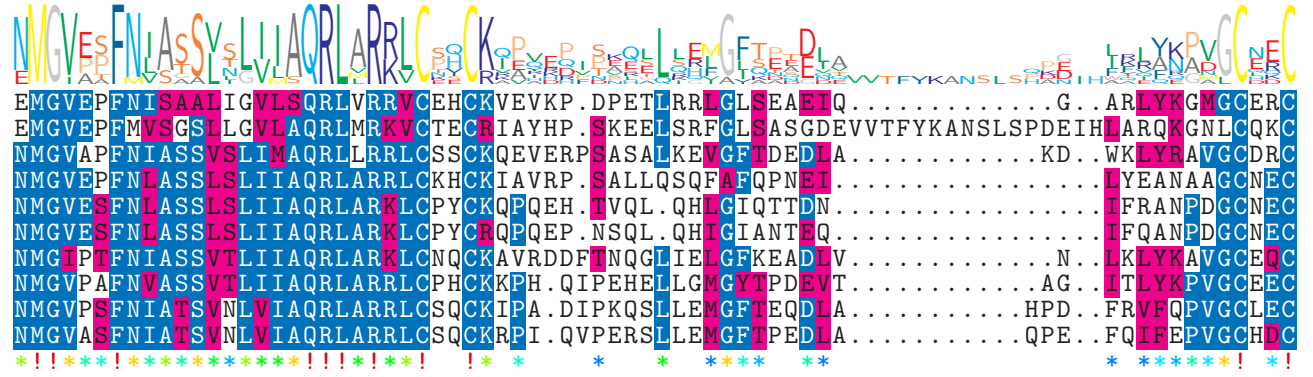
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 NTDB id 1251 GC085 RS07725 WP 011946523.1
 NTDB id 1161520 ACLMBN RS13320 WP 411354443.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 consensus



755
482
422
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431
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logo

NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1410 SGL RS13950 WP 010873519.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
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 NTDB id 1293 VP RS12240 WP 005479695.1
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 NTDB id 1251 GC085 RS07725 WP 011946523.1
 NTDB id 1161520 ACLMBN RS13320 WP 411354443.1
 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 consensus



819
561
488
493
492
492
505
483
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501

logo

NTDB id 1028 TT RS08215 WP 011173991.1
 NTDB id 1410 SGL RS13950 WP 010873519.1
 NTDB id 1110 NGFG RS09235 WP 003689817.1
 NTDB id 1168 A1552VC RS11070 WP 000957200.1
 NTDB id 1293 VP RS12240 WP 005479695.1
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 NTDB id 1018 ACIAD RS01685 WP 004920473.1
 consensus



889
641
558
562
561
561
574
552
570
570

logo

NTDB id 1028 TT RS08215 WP 011173991.1	KRKSALTCRTCAAELQQEWLDCPYCMTSRFS	889
NTDB id 1410 SGL RS13950 WP 010873519.1	KRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	562
NTDB id 1293 VP RS12240 WP 005479695.1	.....	561
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	561
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 1161520 ACLMBN RS13320 WP 411354443.1	.....	552
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

- non conserved
- similar
- ≥ 50% conserved