

NTDB id 1410 SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIIGDKRLGAALLDAGLLTDEELQRALERHREVGGS�AEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	80
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 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1039728 ACCQ06 RS17105 WP 316687911.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

NTDB id 1410 SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	160
NTDB id 1168 A1552VC RS11070 WP 000957200.1		0
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NTDB id 1110 NGFG RS09235 WP 003689817.1		0
NTDB id 1251 GC085 RS07725 WP 011946523.1		0
NTDB id 1039728 ACCQ06 RS17105 WP 316687911.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

NTDB id 1410 SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028 TT RS08215 WP 011173991.1	EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL	240
NTDB id 1168 A1552VC RS11070 WP 000957200.1		0
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NTDB id 1110 NGFG RS09235 WP 003689817.1		0
NTDB id 1251 GC085 RS07725 WP 011946523.1		0
NTDB id 1039728 ACCQ06 RS17105 WP 316687911.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		0
consensus		0

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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
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[illegible]

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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
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consensus

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[illegible]

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NTDB id 1410 SGL RS13950 WP 010873519.1
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
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Sequence	Position
SVDPEVAPIATQMAELIGRFFPLDTCRRFKFLPLAAQEGDPPSVLAVMVDPTNLAAQDENRILRVKG..FEFRRRLVVT	164
YVDPEEDPPDP.....GAPLLLPEDLCRRYGVFPHRL....GNRLVLLMKDPRNIIATDDVRLALKRKGGLNYEVAPAVAT	463
ETDLSRYDYAN.....LCQQLGLRELITRYDALPTAKQ....GNLLLLAVSDPTLLQAEERFRFATG.....LQVELALAD	127
QPELSQY EYAS.....LCQQLGLRELITRHNALPLHRT...PSTLLLVAVDPTNQQAEDIFRFATG.....LQVELVLAD	127
CTSLNQY EYAS.....LCQTLLGLRDLITRHNALPLNRT...SSTLLAVADPTNLQAEDIFRFATG.....LQVELVLAD	127
ILDRLHYPRHR.....VLMGVLT EEQMV EHCVPVFR...GDKVFFAVSDPTQMPQIQKTVSAAG.....LAVELVIVE	126
MLDINCIDVGT.....IPVNLVNEKLIKRRHAMVPLFSR...GTNLVYLATDDPSKQASLKEIQFHTG.....LNTHAIVE	135
LMDVSVF DNASQ.....NAVKLVS EELLKQYQVLP LFKR...GNRLVFGVSNPTQTRALDDIKFHTN.....LVVEPILVD	137
YFDLDVYDTSQ.....IPKDLVDQKLLKHLRILPLIQR...GQILVYVATSNPSNTEADAIREFNSK.....LLVEPVIVE	135
LLDLGVFDPSAL.....FLKDKID EKLIIQKYRIMPLVHR...GHVLYVATSNPTNTEADAIREFNSK.....LKVEPILIVE	135

NTDB id	1410	SGL RS13950 WP 010873519.1	QDDFNQLLEQQYAIREEWFAAQEKRDQERALDKLNDLTDIVGSIDMNGEDK.EDVDNALDSNDANQAPVINLVNKKILAK	243
NTDB id	1028	TT RS08215 WP 011173991.1	EAAATKLIERFYGAELSEIAKEFAKK.....QAEEFVPSPLELDESAAQKFVKQVIRE	517
NTDB id	1168	A1552VC RS11070 WP 000957200.1	HRAATQAATRRLYGRSIIQGAANGKKEISQDELA.....NLVKVSDDELQSIEDLSQDSPVSRFINQVLVD	192
NTDB id	1293	VP RS12240 WP 005479695.1	FRELSTAIRRLYGRSLSHKESGLKEINQEELA.....SLVDVGAD...EIDNIEDLSQDESPPSVRYINQILLD	192
NTDB id	1401	DSB67 RS12665 WP 010643259.1	FRELTAAIRRLYGRSLGQKESGLKEINQDELA.....GLVDIGED...EINIEDLSQDESPPSVRYINQILLD	192
NTDB id	1110	NGFG RS09235 WP 003689817.1	DDQLAGLLDWGSRSTSLQLQELGEGQE.EEE.....SHTLYIDNEEAEDGPVPRFIHKTLSD	182
NTDB id	1251	GCO85 RS07725 WP 011946523.1	TDKLSALIDNLLTAKESQGLSEYVEDSGDLEG.....LEISADDE...DQDIDTATSVTDDAPIVKFVNKKILLD	201
NTDB id	1039728	ACCQ06 RS17105 WP 316687911.1	EDQTRRALLEQWQASNASLGSSSLGNDDD.EMGD.....LDVSSGEDMDGAGGDSGVDAKGDDTPVVKFVNKVLD	205
NTDB id	1058	ABD1 RS01615 WP 001274986.1	HHKLEKVLGGHFAEESSFD.F....ND.EEFD.....LDVNL..DGPTAQEDEEEAPQGDEAPIVKYINKLLID	196
NTDB id	1018	ACIAD RS01685 WP 004920473.1	HKLERLLSEHFVEETHFNF.....DT.EELD.....LDVEV..DPHTTDDDDDKLKLEDEAPIVKYINKLLID	196
consensus			* * * ** * * * * *	

[illegible]

NTDB id 1410	SGL RS13950 WP 010873519.1	VNTLP	S	R	G	E	K	V	C	L	R	I	L	D	N	S	A	T	Q	L	G	D	F	L	I	T	N	P	E	T	L	Q	T	V	R	E	L	A	A	R	P	Y	G	L	M	L	V	T	G	P	T	G	S	G	K	S	T	T	L	Y	S	V	L	A	E	R	N	S	P	E	V	N	I	N	I	T	401				
NTDB id 1028	TT RS08215 WP 011173991.1	L	S	T	L	P	T	V	Y	G	E	K	A	V	M	R	L	L	K	A	S	D	I	P	E	T	E	D	L	G	F	A	P	G	V	F	E	R	F	K	E	V	T	S	K	P	Y	G	I	F	L	I	T	G	P	T	G	S	G	K	S	F	T	T	F	S	I	L	K	R	I	A	T	P	D	K	N	T	Q	T	674
NTDB id 1168	A1552VC RS11070 WP 000957200.1	V	S	T	L	P	T	L	G	E	K	V	I	V	R	L	D	S	S	A	N	L	D	I	D	K	L	G	Y	N	P	Q	Q	K	Q	L	Y	N	A	L	K	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	S	L	Y	T	G	L	R	I	L	N	T	S	Q	I	N	I	S	T	350			
NTDB id 1293	VP RS12240 WP 005479695.1	V	S	T	L	P	T	L	F	G	E	K	V	I	V	R	L	D	S	S	A	N	L	D	I	D	K	L	G	Y	S	E	Q	Q	K	Q	L	Y	E	A	L	R	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	S	L	Y	T	G	L	N	I	L	N	K	P	E	I	N	I	S	T	350		
NTDB id 1401	DSB67 RS12665 WP 010643259.1	V	S	T	L	P	T	L	F	G	E	K	V	I	V	R	L	D	S	S	A	A	L	D	N	K	L	G	Y	S	D	S	Q	Q	K	Q	L	Y	D	A	L	R	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	S	L	Y	T	G	L	S	I	L	N	K	P	E	I	N	I	S	T	350		
NTDB id 1110	NGFG RS09235 WP 003689817.1	V	S	T	L	P	T	L	F	G	E	K	V	M	R	I	L	N	S	D	A	A	S	L	N	I	D	Q	L	G	F	E	P	F	Q	K	K	L	L	E	A	T	H	R	P	Y	G	M	V	L	T	G	P	T	G	S	G	K	T	V	S	L	Y	T	C	L	N	I	L	N	T	E	S	V	N	I	A	T	341		
NTDB id 1251	GC085 RS07725 WP 011946523.1	V	S	T	C	P	T	S	A	G	E	K	V	M	R	V	L	D	S	G	A	A	K	L	G	I	E	A	L	G	F	N	P	V	Q	R	T	N	F	L	K	A	I	Q	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	T	L	Y	T	A	L	N	I	L	N	T	I	E	V	N	I	S	T	359
NTDB id 1039728	ACCQ06 RS17105 WP 316687911.1	V	S	T	L	P	T	L	F	G	E	K	V	V	L	R	I	D	A	S	A	A	K	L	G	I	E	K	L	G	Y	E	A	D	Q	Q	K	L	F	I	D	A	H	K	P	Y	G	M	V	L	T	G	P	T	G	S	G	K	T	V																					

logo

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
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NTDB id 1039728 ACCQ06 RS17105 WP 316687911.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1

consensus

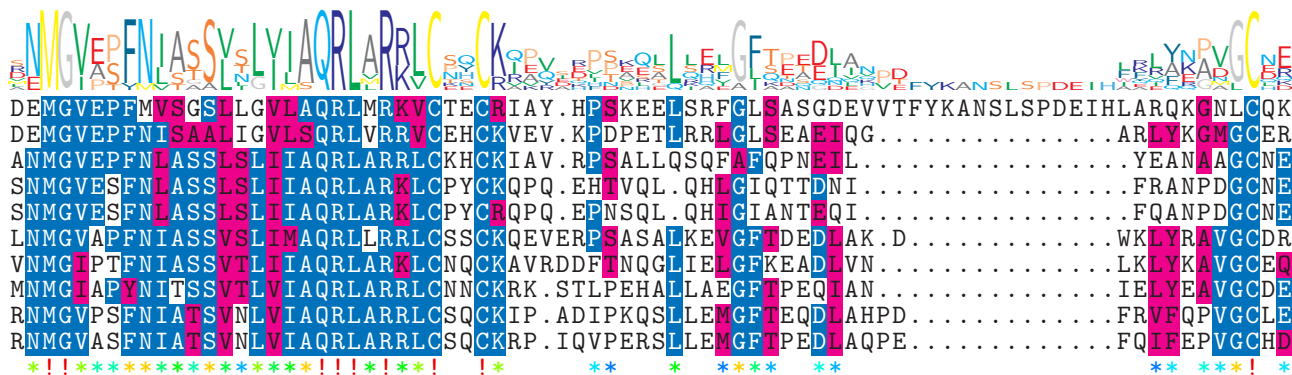


481
754
430
430
430
421
439
443
434
434

logo

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
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NTDB id 1039728 ACCQ06 RS17105 WP 316687911.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1

consensus

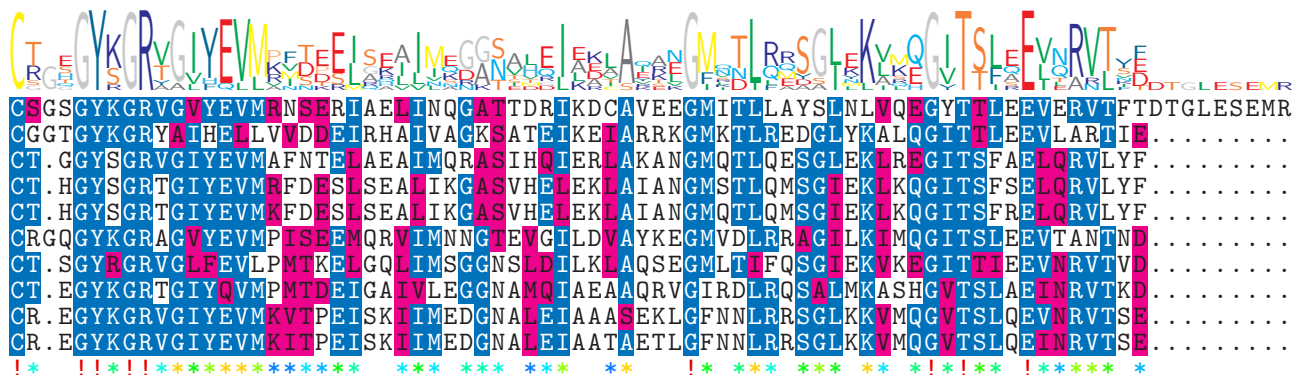


560
818
492
491
491
487
504
507
500
500

logo

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1039728 ACCQ06 RS17105 WP 316687911.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1

consensus



640
889
562
561
561
558
574
577
570
570

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	AKRKSA L TCRTCAA E L Q QEWLDCPYCMTSRFS	672
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
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 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 1039728 ACCQ06 RS17105 WP 316687911.1	.....	577
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved