

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	0
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
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 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 267331 C2U30 RS16960 WP 041211787.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	0
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	160
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 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 267331 C2U30 RS16960 WP 041211787.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	EGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL	0
NTDB id 1028 TT RS08215 WP 011173991.1	EGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL	240
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 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 267331 C2U30 RS16960 WP 041211787.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

```

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 267331 C2U30 RS16960 WP 041211787.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```

[illegible]

logo

```

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 267331 C2U30 RS16960 WP 041211787.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```

Position	Sequence	Score
1	SKKSR	86
2	VAALRN	86
3	YFSP	86
4	FGNKL	86
5	LVAG	86
6	CHVDAE	86
7	QLRQAL	86
8	LVQVKK	86
9	TRSLPE	86
10	ELKAV	86
11	TGREL	86
12	SPELL	86
13	LRQY	86
14	KKNQ	86
15	LFEL	86
16	KVL	86
17	LY	86
18	GV	86
19	D	86
20	391	86
21	KEALE	86
22	VQKGL	86
23	PRAPKL	86
24	GEIL	86
25	VELGL	86
26	ARPE	86
27	VEEAL	86
28	QKQR	86
29	RGCG	86
30	RLD	86
31	TLVQ	86
32	SGK	86
33	LRPE	86
34	ALQA	86
35	.....	86
36	VAT	86
37	QLG	86
38	YGP	86
39	.....	86
40	59	86
41	MSV	86
42	GLLR	86
43	RLVL	86
44	QNVV	86
45	TVE	86
46	QAEH	86
47	YYNES	86
48	Q	86
49	AG	86
50	KE	86
51	VP	86
52	LM	86
53	FL	86
54	S	86
55	DGV	86
56	TP	86
57	SK	86
58	LA	86
59	AL	86
60	.....	86
61	IAR	86
62	V	86
63	FS	86
64	.....	86
65	60	86
66	ML	86
67	TNL	86
68	VAIL	86
69	RQAE	86
70	LISAT	86
71	QEQAV	86
72	TVQVS	86
73	ASG	86
74	TS	86
75	VP	86
76	EAL	86
77	LE	86
78	LS	86
79	IF	86
80	HA	86
81	QEL	86
82	TE	86
83	Q	86
84	.....	86
85	L	86
86	SH	86
87	IF	86
88	GL	86
89	P	86
90	.....	86
91	60	86
92	MH	86
93	SN	86
94	LS	86
95	T	86
96	RQ	86
97	GL	86
98	LT	86
99	FS	86
100	Q	86

logo

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 267331 C2U30 RS16960 WP 041211787.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

SVDPEVAPITATQQMAELIGRFFPLDTCRRFKFLPLAQEGDPSSVLVAIVDPDNLAQDELNRLRVKGF...ELRRLVVT 164
YVDPEEDPPD....PGAPLIPEDLCRRYGVPFHRLEG...NRVLVMKDPRNILADDDVLALKRKGGLNYEVAPAVAT 463
ILDLRHYPRH....RVLMGVITEEQVEFHCVPFVRRG...DKVFVASDPTQMPQIQKTLSAAG....I AVLIVE 126
ETDLRSRYDYA....NLCCQLGLRELITRYDALPIAKQC...NLLLVASDPTLLQAEEFRFATG....LQVELALAD 127
QPELSQQEYA....SLCQQLGLRELI TRHNALPLHRT...STLLAVADPTNQQAEDDFRFATG....LQVELVLAD 127
CTSDLNQYEYA....SLCQQLGLRDILITRHNA LPLNRTS...STLILA VADPTN QAEDDFRFATG....LQVELVLAD 127
M DINCIDVGC....TIPVN LVNEKLIRHAMVPLFSRG...TNLYLATDDPSKQASKEIQFHTG....LNTHAIIVE 135
ILLDLAAFDLA....EIPQKYLNQK LIEKHVVLPITYTQG...HTLYIAMSDPTNVSALEDFGFSFG....LHTEALLVE 131
YFDLDVYDTS....QIPKDLVDQKLILKHLRILPLIQRG...QILYVATSIPSNI EAIDAIRFN SK....LLVEPVIVE 135
ILLDLGVFDPA....LFLKDKIDEK LIQKYRIMPLVHRG...HVLYVATS IPTN IEAMD AIRFN SK....LKVEP IIVE 135

logo

NTDB id 1410	SGL RS13950 WP 010873519.1	QDDFNQLIEQYAIREEWEAAQEKRDQERALDKLNDLTDIVGSIDMNLG	EDKEEDVDNALDSNDANQAPVINLVNKKILAKA	244
NTDB id 1028	TT RS08215 WP 011173991.1	EAAITKLIERFYGKAELSEI..AKEFAK.....	KQAEDEVSPLELDESAAQKFVKQVIREA	518
NTDB id 1110	NGFG RS09235 WP 003689817.1	DDQLAGLIDWVGSRTSLLQELGEGQEE.....	EESHTLYIDNEEAEDGPVPRFIHKTLSDA	183
NTDB id 1168	A1552VC RS11070 WP 000957200.1	HRALQAAIRRLYGRSIQGAANQGKEISQDEL.....	ANLV.....KVSDELQSIEDLSQDDSPVSRFINQVLLDA	193
NTDB id 1293	VP RS12240 WP 005479695.1	FRELSTAIRRLYGRSLSHEKSGLKEINQEEL.....	ASLV.....DVGADEIDNIEDLSQDESVPVSRFINQVLLDA	193
NTDB id 1401	DSB67 RS12665 WP 010643259.1	FRELTAAIRRLYGRSLGQEKSGLKEINQDEL.....	AGLV.....DIGEDEIENIEDLSQDESVPVSRFINQVLLDA	193
NTDB id 1251	GC085 RS07725 WP 011946523.1	TDKLSALIDNLLTAKESQG...LSEYVEDSG....	DLEGLEISA....DDED.QDIDTATSVTDDAPIVKFVNKILLDA	202
NTDB id 267331	C2U30 RS16960 WP 041211787.1	ESKLTAAIGKLMESEQDTL...GMDHIDEAE.....	ISELEV....SDESSRLDESUNTADDAPIVKYIHKIMMDA	196
NTDB id 1058	ABD1 RS01615 WP 001274986.1	HHKLEKVLGQHFAEES.....FDNFDEEF.....	DLDVNL....DGPTAQEDEEAPQGDEAPIVKYINKLLIDA	197
NTDB id 1018	ACIAD RS01685 WP 004920473.1	HDKLERLSEHFVEETH.....FNFDTEEL.....	DLDVEV....DPHTTDDDDDDDKLKDEAPIVKYINKLLIDA	197
consensus		***** ***** ** ***** *	* * * * *	*****!!!!

logo

NTDB id 1410	SGL RS13950 WP 010873519.1	LQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRK	ITPAVVARFKIMADMDIAERRSPQDGKIRRIYQ..GRKVD	322
NTDB id 1028	TT RS08215 WP 011173991.1	FLQDASDIHIEPRQNDVQVRLRIDGALRPYSTL.PKGALNAVISVVKIMGGLNIAEKRLPQDGRVRYE..	EGAIDVDLRL	595
NTDB id 1110	NGFG RS09235 WP 003689817.1	LRSGASDIHFEFYEHNARIRFRVDGQLREVVQP.PI	AVRGQLASRIKVMRLDISEKRIPQDGRMQLTFQKGGKPVDFRV	262
NTDB id 1168	A1552VC RS11070 WP 000957200.1	VRKGASDIHFEPYENQYRIRLRCDGILVETQQP.ASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.D	TAIDMRV	271
NTDB id 1293	VP RS12240 WP 005479695.1	VRKGASDIHFEPYEKMYRVRLRCDGILVETQQP.FNHL	SRRLSARIKILSKLDIAERRLPQDGRIKLRLNQ.DTAIDMRV	271
NTDB id 1401	DSB67 RS12665 WP 010643259.1	VRKGASDIHFEPYENMYRVRLRCDGILVETQQP.PSHLSRRLSARIKILSKLDIAERRLPQDGRIKLRLNQ.D	TAIDMRV	271
NTDB id 1251	GC085 RS07725 WP 011946523.1	IRQGASDIHFEPYEREYRIRYRQDGILHEVATP.PASLS	SRITARIKVMNSLDISERRIPQDGGFKMKISK.SRAIDFRV	280
NTDB id 267331	C2U30 RS16960 WP 041211787.1	IKRGASDLHFEPYETKYRIRFRVDGILHEVATP.PVN	LANRFAARLKVMARLDIAERRLPQDGRIKLKISR.NRSM	DMRV
NTDB id 1058	ABD1 RS01615 WP 001274986.1	IRMGASDLHFEPYEKSYRVRYRVDGVLRLQIANP.PLQLANRLASRLKVM	SQMDISEKRVPPQDGRIKLKLSK.SK	AIDFRV
NTDB id 1018	ACIAD RS01685 WP 004920473.1	IRMSASDLHFEPYEKSYRVRYRVDGVLRLQIANP.PLQLATRLASRLKVM	SQMDISEKRVPPQDGRIKLKMSK.SK	TIDFRV
consensus		** *!!!!!!** *!!!!!!* * * *	* * * * *!!!!!!* * * * *	****!!*

logo

NTDB id 1410	SGL RS13950 WP 010873519.1	NTLPSRYGEKVCLRLIDNSATQLGLDFLITNPETLQTVRELAARPYGLMLVTGPTGSGKSTTLYSVLAERN	SPVNNINTA	402
NTDB id 1028	TT RS08215 WP 011173991.1	STLPTVYGEKAVMRLLKKASDIPEIEDLGFAPGVFERFKEVISKPYGIFLITGPTGSGKSFTTFSILKRIATPDKNTQTI		675
NTDB id 1110	NGFG RS09235 WP 003689817.1	STLPTLFGEKVVMRILNSDAASLNLIDQLGFEPFQKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLN	ILNTESVNIATA	342
NTDB id 1168	A1552VC RS11070 WP 000957200.1	STLPTLWGEKIVLRLLDSSAANLIDDKLGYNPQQKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTS	QINISTA	351
NTDB id 1293	VP RS12240 WP 005479695.1	STLPTLFGEKIVLRLLDSSASLIDDKLGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLN	ILNKPEINISTA	351
NTDB id 1401	DSB67 RS12665 WP 010643259.1	STLPTLFGEKIVLRLLDSSSAALDINKLGYSDSQKQLYLDALRRPQGMILMTGPTGSGKTVSLYTGLS	SILNKPEINISTA	351
NTDB id 1251	GC085 RS07725 WP 011946523.1	STCPTSAGEKIVMRVLDSGAAKLGIEALGFNPVQRTNFKAIQRPQGMILVTGPTGSGKTVSLYTALN	ILNTIEVNISTA	360
NTDB id 267331	C2U30 RS16960 WP 041211787.1	NTLPTMWGEKIVIRLLDSSAARLNLIDQLGFDQRKTQYLHALSKPQGMILVTGPTGSGKTVSLYTGLN	ILNTSEVNISTA	354
NTDB id 1058	ABD1 RS01615 WP 001274986.1	NLSLPTLFGEKIVLRLIDLPSSAMLGIDALGYEEDQKALFMEALDKPQGMILLITGPTGSGKTVSLYTGLN	ILNTESSNISTA	355
NTDB id 1018	ACIAD RS01685 WP 004920473.1	NLSLPTLFGEKIVLRLIDLPASAMLGIDALGYEPEQKALFMEALNKPQGMILLITGPTGSGKTVSLYTGLN	ILNTEHANISTA	355
consensus		*****!!!!!!* * * * *!!!! * * * * *!!!!!!* * * * *	*****!!!!!!* * * * *	****!!*

logo

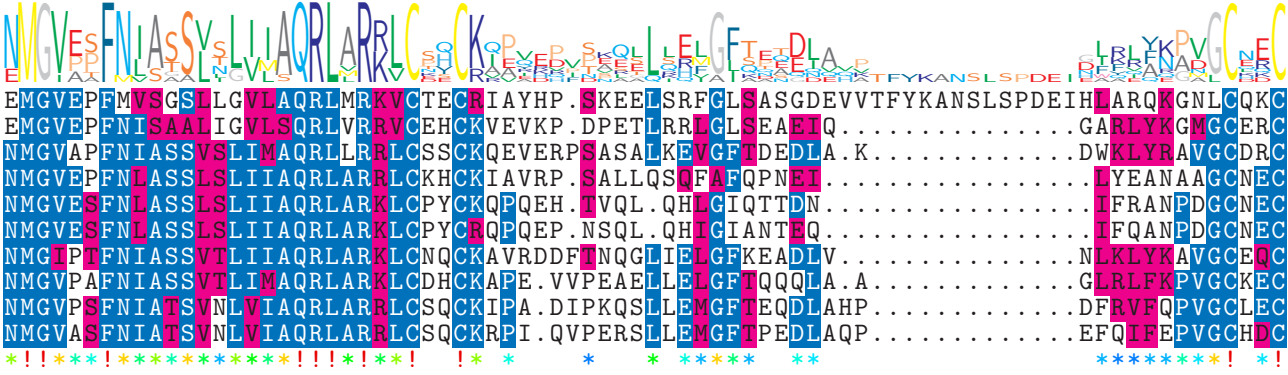
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 267331 C2U30 RS16960 WP 041211787.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



482
755
422
431
431
431
440
434
435
435

logo

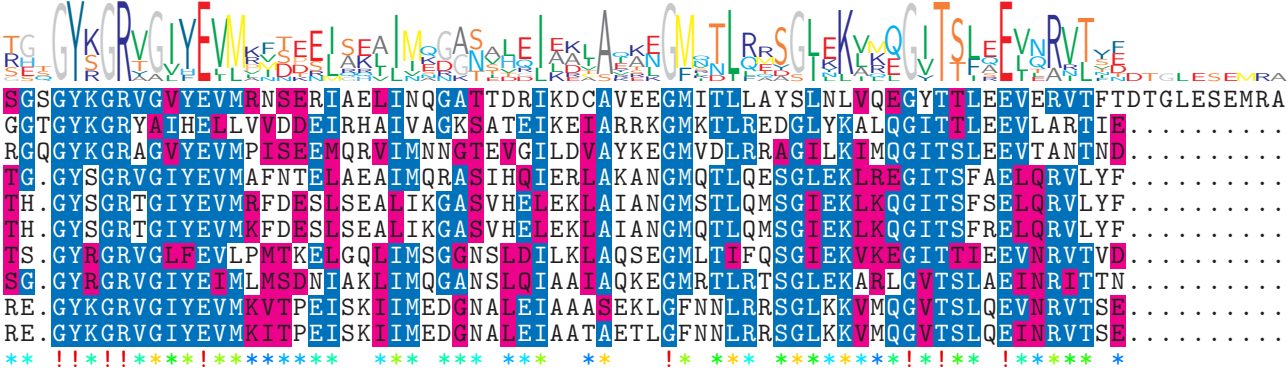
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 267331 C2U30 RS16960 WP 041211787.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



561
819
488
493
492
492
505
499
501
501

logo

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 267331 C2U30 RS16960 WP 041211787.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



641
889
558
562
561
561
574
568
570
570

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	KRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
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 267331 C2U30 RS16960 WP 041211787.1	.....	568
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved