

```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 103387 WM47 RS24700 WP 004174030.1
NTDB id 1433 BW25113 RS17570 WP 000815987.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1465 ASU2 RS06170 WP 014991934.1
consensus

```

Position	Sequence	Information Content (bits)
1	MKNG	1.4
2	KL	1.4
3	YV	1.4
4	QW	1.4
5	TL	1.4
6	TL	1.4
7	WV	1.4
8	GL	1.4
9	AL	1.4
10	LCASSMV	1.4
11	FS	1.4
12	SAES	1.4
13	ATAN	1.4
14	QLEN	1.4
15	IDFR	1.4
16	VNKE	1.4
17	KA	1.4
18	AAVL	1.4
19	LIVEL	1.4
20	ASPS	1.4
21	AV	1.4
22	VDV	1.4
23	QKV	1.4
24	QEG	1.4
25	LSI	1.4
26	..	0.0
27	..	0.0
28	..	0.0
29	..	0.0
30	..	0.0
31	..	0.0
32	..	0.0
33	..	0.0
34	..	0.0
35	..	0.0
36	..	0.0
37	..	0.0
38	..	0.0
39	..	0.0
40	..	0.0
41	..	0.0
42	..	0.0
43	..	0.0
44	..	0.0
45	..	0.0
46	..	0.0
47	..	0.0
48	..	0.0
49	..	0.0
50	..	0.0
51	..	0.0
52	..	0.0
53	..	0.0
54	..	0.0
55	..	0.0
56	..	0.0
57	..	0.0
58	..	0.0
59	..	0.0
60	..	0.0
61	..	0.0
62	..	0.0
63	..	0.0
64	..	0.0
65	..	0.0
66	..	0.0
67	..	0.0
68	..	0.0
69	..	0.0
70	..	0.0
71	..	0.0
72	..	0.0
73	..	0.0
74	..	0.0
75	..	0.0
76	..	0.0
77	..	0.0
78	..	0.0
79	..	0.0
80	..	0.0
81	..	0.0
82	..	0.0
83	..	0.0
84	..	0.0
85	..	0.0
86	..	0.0
87	..	0.0
88	..	0.0
89	..	0.0
90	..	0.0
91	..	0.0
92	..	0.0
93	..	0.0
94	..	0.0
95	..	0.0
96	..	0.0
97	..	0.0
98	..	0.0
99	..	0.0
100	..	0.0

```
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 103387 WM47 RS24700 WP 004174030.1
NTDB id 1433 BW25113 RS17570 WP 000815987.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1465 ASU2 RS06170 WP 014991934.1
consensus
```

ELLKTDVADDKLYLLDVKDFSTVPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKGKYLEVVISKLEKADKPKPKSVLEKEG 156
 ELLKTDVADDKLYLLDVKDFSTVPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKGKYLEVVISKLEKADKPKPKSVLEKEG 156
 DLLNTSVKDDQLYLLDVKDFSTVVPVESVEVFRDSTTRLVAYIDEDYSHDYRLTGRYLEVVKVGKLEKANAPDKSILDKEG 157
MRRWISLLELLLPLAVAPAARN 23
MKQWIAALLMLIPGVQ..AAKP 21
MKKYFLKCGYFLVCFCLPLIVFAN...P.KTDN 29
MKKYFLKCGYFLVCFCLPLIVFAN...P.KTDN 29
MRYLFLFFATF...P.VLAN 17
MKRMILLFFIL...P.PVIA 17

```
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 103387 WM47 RS24700 WP 004174030.1
NTDB id 1433 BW25113 RS13750 WP 000815987.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1465 ASU2 RS06170 WP 014991934.1
consensus
```

Sequence	Position
KLISINFQDIPVRNVLQLIADYNGFNLVVSDSVGNLTLRLDGVPPWQVLDIILQVKGLDKRVDGNVILAPKEELDLRE	236
KLISINFQDIPVRNVLQLIADYNGFNLVVSDSVGNLTLRLDGVPPWQVLDIILQVKGLDKRVDGNVILAPKEELDLRE	236
KLISINFQDIPVRNVLQLIADYNGFNLVVSDSVGNLTLRLDGVPPWQVLDIILQVKGLDKRVDGNVILAPKDELDLRE	237
KPVSLVIDDAPVAQVLQALAEEMHKNLVVAPDVSGTLLSLRLKQKVPWSQALRAVADSAGLSLQQQQTVIYAHTQAWQKANQ	103
QKVTLMVDDPVAQVLQALAEQKLVNLVVSPDVSGTSLHLTDVPWKQALQTIVVKSAGLITRQGNLSVHSIASQWQNNNI	101
ERFFIRLSQAPLAQTLEQLAFQQDVNLVIGDILENKISLKLNNIDMPRLKIIAKSKHLLTNKDDGIYYLNGSQSGKGV	109
ECFFIRLSQAPLAQTLEQLAFQQDVNLVIGDILENKISLKLNNIDMPRLKIIAKSKHLLTNKDDGVYYLNGSQSGKGV	109
QQISLSIRNAPTAEILISYLAETGKNITISDEIKDTKNFRVEKSHFDEILNSLIKTHQLNLKENGITYYIHQAQEHKQHT	97
HAFSISLKNAPTAKILISYLAEEHGKNIVLSDNLETNTTLRIENSFDSVLKSHITRANKLTSAYENQIYFIHGKKDDKDPN	97

```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 103387 WM47 RS24700 WP 004174030.1
NTDB id 1433 BW25113 RS17570 WP 000815987.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1465 ASU2 RS06170 WP 014991934.1
consensus

```

```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 103387 WM47 RS24700 WP 004174030.1
NTDB id 1433 BW25113 RS17570 WP 000815987.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1465 ASU2 RS06170 WP 014991934.1
consensus

```



```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DS867 RS13980 WP 010643500.1
NTDB id 103387 WM47 RS24700 WP 004174030.1
NTDB id 1433 BW25113 RS17570 WP 000815987.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1465 ASU2 RS06170 WP 014991934.1
consensus

```



```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 103387 WM47 RS24700 WP 004174030.1
NTDB id 1433 BW25113 RS17570 WP 000815987.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1465 ASU2 RS06170 WP 014991934.1
consensus

```



```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DS867 RS13980 WP 010643500.1
NTDB id 103387 WM47 RS24700 WP 004174030.1
NTDB id 1433 BW25113 RS17570 WP 000815987.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
NTDB id 1465 ASU2 RS06170 WP 014991934.1
consensus

```



 non conserved
 similar
 $\geq 50\%$ conserved