

NTDB id 1410 SGL RS13950 WP 010873519.1	.....	0
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTI G DKRLGAALLDAGLLTDEELQRALERHREVGGS L AEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPP K VK	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 1042959 ABQ049 RS16775 WP 104551201.1	.....	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
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 1042959 ABQ049 RS16775 WP 104551201.1	.....	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	EGQKDLKLGELLQKGWISREALEEALVEQEKTGDDLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL	240
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 1042959 ABQ049 RS16775 WP 104551201.1	.....	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
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 1042959 ABQ049 RS16775 WP 104551201.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```

[illegible]

```

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 1042959 ABQ049 RS16775 WP 104551201.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



Sequence	Position
SKKSRVALRNRYFSPFGNKLAVAGGHVDAEQLRQALVQVKKTRGSLPEELKAVTGRELSPELRLRYKKNQLFELKVLRYGVD	86
KEALTEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQBRGGRIEDTLVQ..SGKLRPEALAA.....VATQLGY	391
.....MLTNLVAILRQAELISATQEAVVTQVSASGTSVPEALLE..LSIFHAQELTEQ.....LSHIFGLP	60
.....MHSNLSITLRQKGLLTFSQEESLIEQVKASGISMPEALLS..SGFFTSSSLAEH.....LSSIFGLS	60
.....MLTNLSTVLRQAGILTFVQEESLLEQVKASGISMPEALLS..SGFFQSHBLTEH.....LSSVFGLS	60
.....MSVGLLRILVQNQVVTFEQAEEHYHNE.SQAGKEVLPMLFS..DGVISPKSLAAL.....IARVFSYS	59
..MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQALT.....AAQNFVGP	68
..MNVAISSNLVGTIGIARRLVQDGLDEASARAAMDHATQAKVPLPQWFAE..KKLVTAAQLAAA.....NAVEFGMP	70
..MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDVTAYLIE..EVHISPSLAEET.....ISAEFAEP	68
..MSAFTTPPKFTSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDTPVYILD..NFSISPLTIAEI.....ISLEFGE	68

```
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 1042959 ABQ049 RS16775 WP 104551201.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
```

Sequence	Position
SVDPEVAPIATQMAELIGRFFPLDTCRRFKFLPLAAQEGDPPSVLWAVDPDNLAAQDELNRILRVKG..FE ¹ RR ² LV ³ VT	164
YVDPEEDPPDP.....GAPLL ⁴ LPED ⁵ LCRRYGVFPHRLE...GNRLVLLMKDPRN ⁶ ILAT ⁷ DDVRLALKKRGLNVEVAPAVAT	463
ETDLSRYDYAN.....LCQQLGLRELITRYDALPIAKQ...GNLLLVAVSDPTLLQAEEEF ⁸ RFATG.....LQVELALAD	127
QPELSQY ⁹ EYAS.....LCQQLGLRELITRHNALPLHRT...PSTLLLVAVDPTNQAEDDFRFATG.....LQVELVLAD	127
CTSLNQY ¹⁰ EYAS.....LCQTLGLRLITRHNALPLNRT...SSTLLLVAVDPTNQAEDDFRFATG.....LQVELVLAD	127
ILDLRHYPRHR.....VLMGVLTEEQMVEFHCV ¹¹ PFRR...GDKVFFAVSDPTQMPQIQKT ¹² VSAAG.....LAVELVIVE	126
MLDINCI ¹³ DVGT.....IPVNLVNEKLIK ¹⁴ RHAMVPLFSR...GTNLV ¹⁵ LATDDPSKQASIKETIQ ¹⁶ FHTG.....LNTHAIVE	135
LMDVS ¹⁷ FDANQ.....NAVKL ¹⁸ VSEELLKQYQVLP ¹⁹ LFKR...GNRLFVGVSNPTQTRALDDIK ²⁰ FHTN.....LVVEPILVD	137
YFDLDVYDTSQ.....IPKDLVDQKLIK ²¹ KHRIPLIQR...GQILYVATSN ²² PSNTEATDAIF ²³ NSK.....LLVEPIVE	135
LLDLGV ²⁴ FDPAL.....FLDKDID ²⁵ EKLIKY ²⁶ RI ²⁷ IMPLVHR...GHVLYVATSN ²⁸ PTNTEAMDAIF ²⁹ NSK.....LKVEPIVE	135

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 1042959 ABQ049 RS16775 WP 104551201.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1

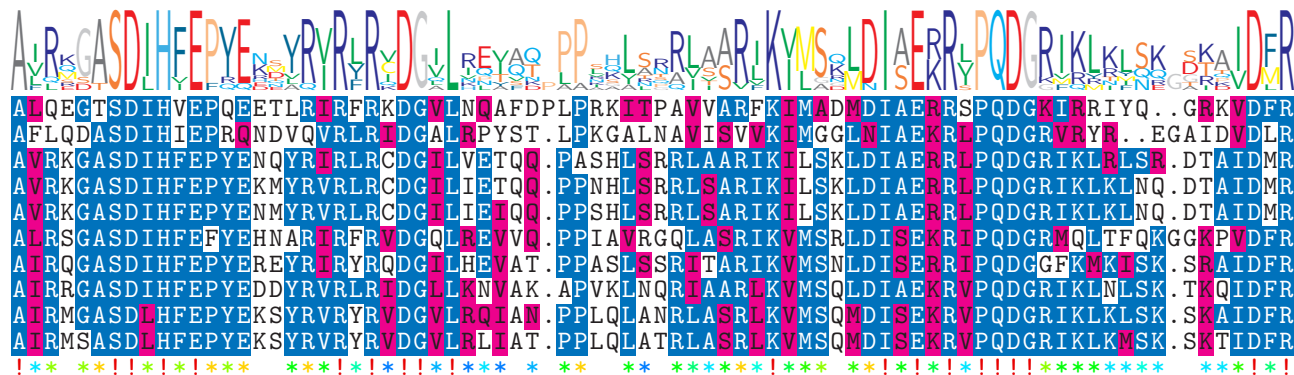
consensus



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 1042959 ABQ049 RS16775 WP 104551201.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1

consensus



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 1042959 ABQ049 RS16775 WP 104551201.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1

consensus



logo

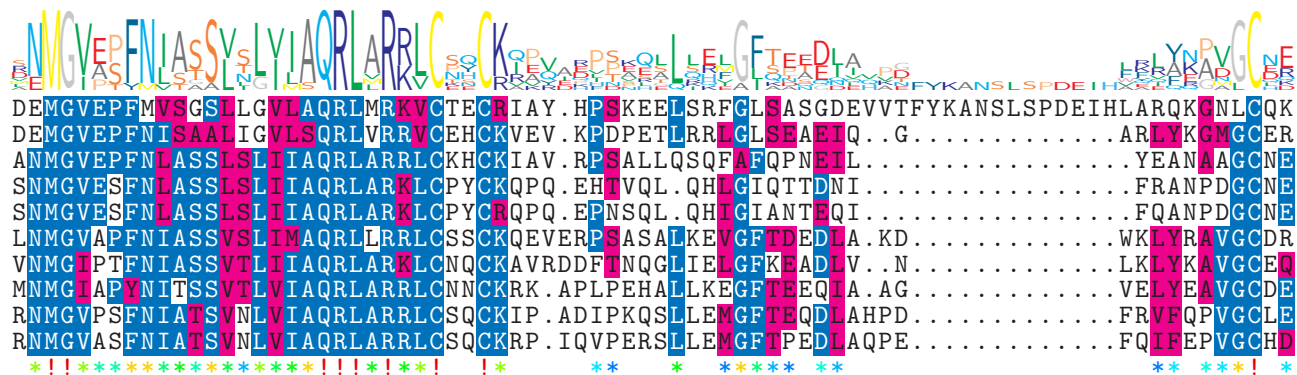
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1042959 ABQ049 RS16775 WP 104551201.1
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

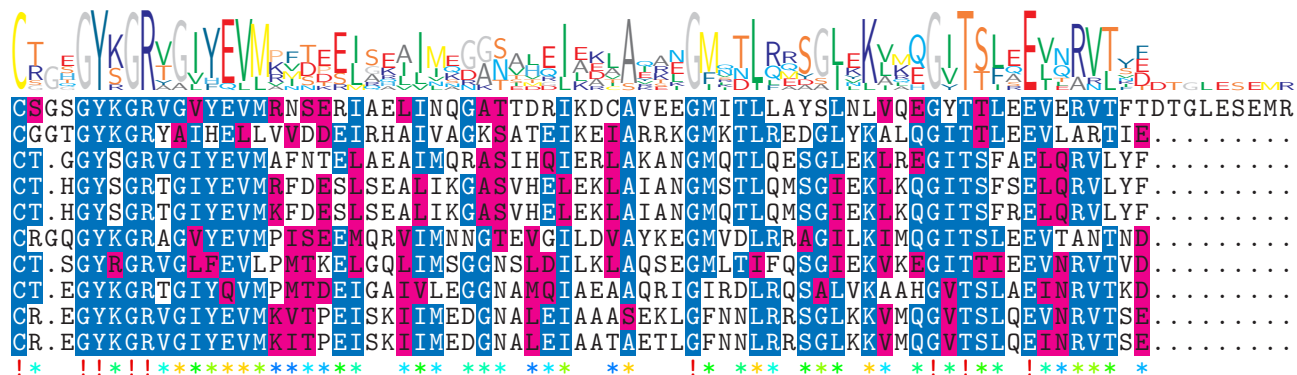
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1042959 ABQ049 RS16775 WP 104551201.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



560
818
492
491
491
487
504
508
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 1042959 ABQ049 RS16775 WP 104551201.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



640
889
562
561
561
558
574
578
570
570

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	AKRKSALTCRTCAAELQQEWLDCPYCMTSRFS	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 1042959 ABQ049 RS16775 WP 104551201.1	.....	578
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved