

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	0
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	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 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 36773 NHAL RS18655 WP 041355203.1	.....	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 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 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 36773 NHAL RS18655 WP 041355203.1	.....	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	EGQKDLKLGELLQKGI SREALEEALVEQEKTDGDLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVDPDPSAALLL	0
NTDB id 1028 TT RS08215 WP 011173991.1	EGQKDLKLGELLQKGI SREALEEALVEQEKTDGDLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVDPDPSAALLL	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 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 36773 NHAL RS18655 WP 041355203.1	.....	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 36773 NHAL RS18655 WP 041355203.1
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 NSGF RS09235 WP 003689817.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 36773 NHAL RS18655 WP 041355203.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```

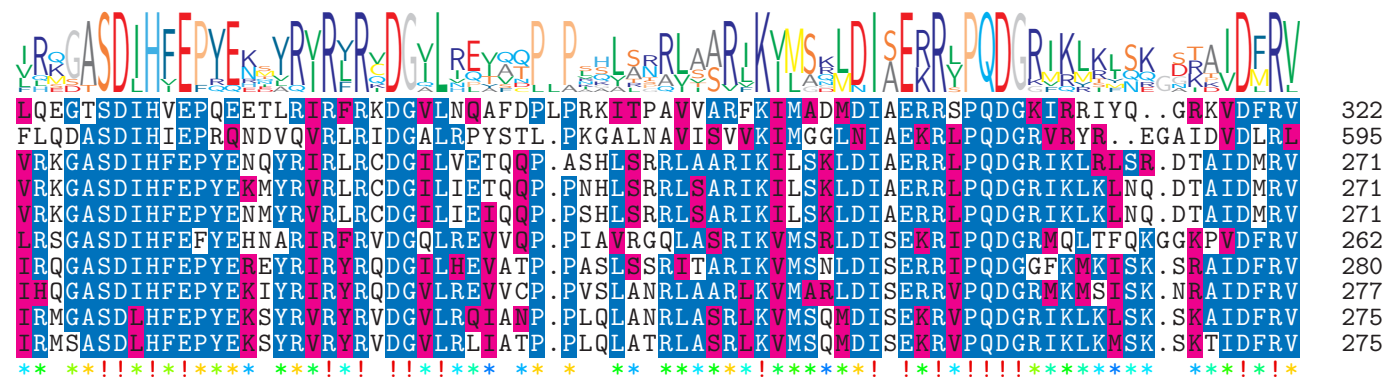
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 36773 NHAL RS18655 WP 041355203.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

Sequence	Position
SVDPEVAPV	1
ATQQMAE	2
LIGRFFPL	3
DTCRFKF	4
LPLAQEGD	5
PPSVLV	6
AVDPDN	7
LAQDEL	8
ENRILRV	9
KGF	10
ELRR	11
LV	12
YVDPEEDPPD	13
PGAPIL	14
PEDCRRYG	15
VFPHRLE	16
GNRLV	17
LLMKDP	18
NRILA	19
DDVRL	20
LALKRGL	21
NYEVAP	22
AVAT	23
ETDLSRYDYA	24
NLCQQL	25
GLRELIT	26
RYDALP	27
IAKQ	28
GNL	29
LLLVAS	30
DPPTLL	31
QAEFFR	32
FATG	33
LQVEL	34
LAD	35
QPELSQY	36
EYA	37
SLCQQL	38
GLRELIT	39
RHWALP	40
LHRT	41
PST	42
LLL	43
LAVAD	44
PTNQQA	45
EDDFR	46
FATG	47
LQVEL	48
VLAD	49
CTSLNQY	50
EYA	51
SLCQTL	52
GLRLD	53
LITRHW	54
ALPLNR	55
T	56
SST	57
LILAVAD	58
PTNQQA	59
EDDFR	60
FATG	61
LQVEL	62
VLAD	63
ITDLRHYP	64
PRH	65
RYLMG	66
VLTEQ	67
VEFHCV	68
PFRR	69
GDKV	70
FFAVS	71
DPQTMP	72
QKIQKT	73
VSAA	74
IAVEL	75
VIVE	76
MDINCIDV	77
GTIPV	78
NLVNEK	79
LKRHAM	80
YPLFSR	81
GTNL	82
YLATD	83
DPSPK	84
QASL	85
KEIQHT	86
GT	87
LNTHA	88
IIVE	89
LFDLDALD	90
LD	91
CLPKG	92
LVEEKL	93
IRQHQA	94
LPIFKR	95
GNRL	96
LVAVAD	97
PTNLQA	98
LDEIK	99
FHAG	100
INTEA	101
ILVE	102
YFDLDVYD	103
TS	104
QIPKD	105
LYDKL	106
LILK	107
IRILPL	108
IQR	109
GQIL	110
YVATS	111
PSNTEA	112
IDAIR	113
FNSK	114
LLVEP	115
VIVE	116
LIDLGV	117
FDP	118
LFLKDK	119
IDE	120
LILQ	121
YRIM	122
PLVHR	123
GHV	124
LYVATS	125
NPNT	126
TEAMD	127
DAIR	128
FNSK	129
LKVEP	130
VIVE	131

```

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 36773 NHAL RS18655 WP 041355203.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

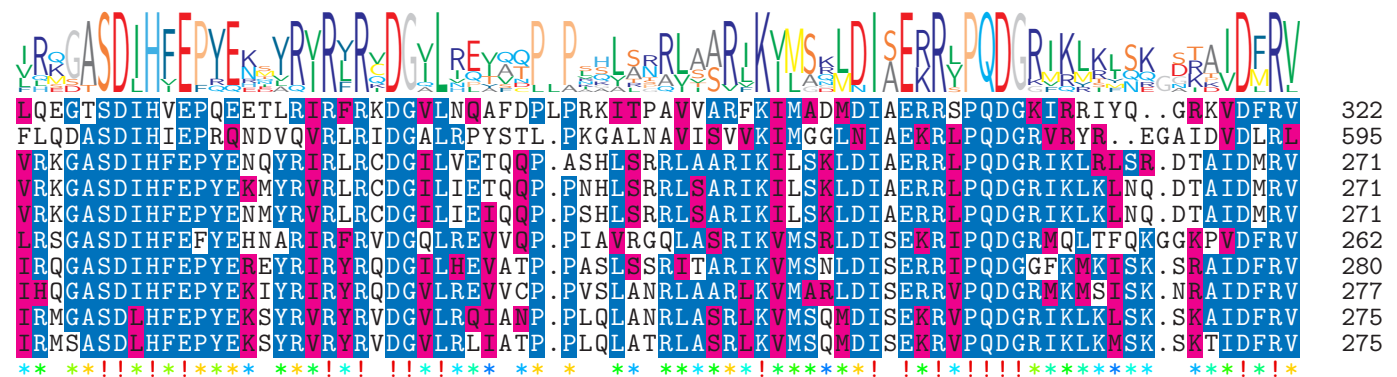
```



```

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 36773 NHAL RS18655 WP 041355203.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

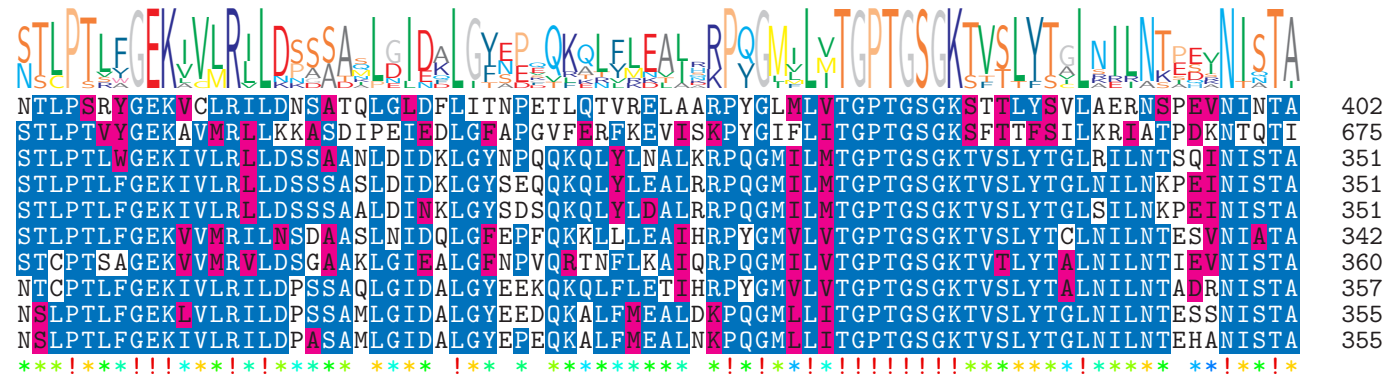
```



```

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 36773 NHAL RS18655 WP 041355203.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



logo

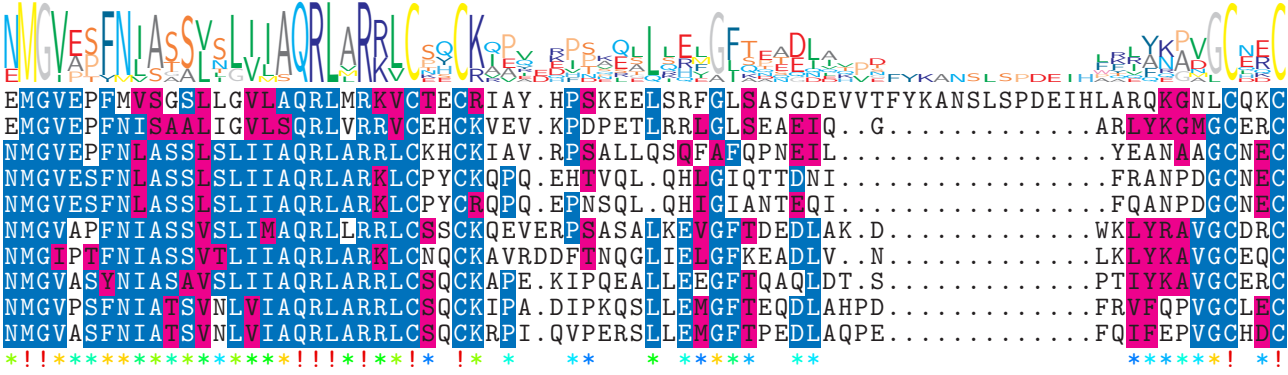
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 36773 NHAL RS18655 WP 041355203.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



482
755
431
431
431
422
440
437
435
435

logo

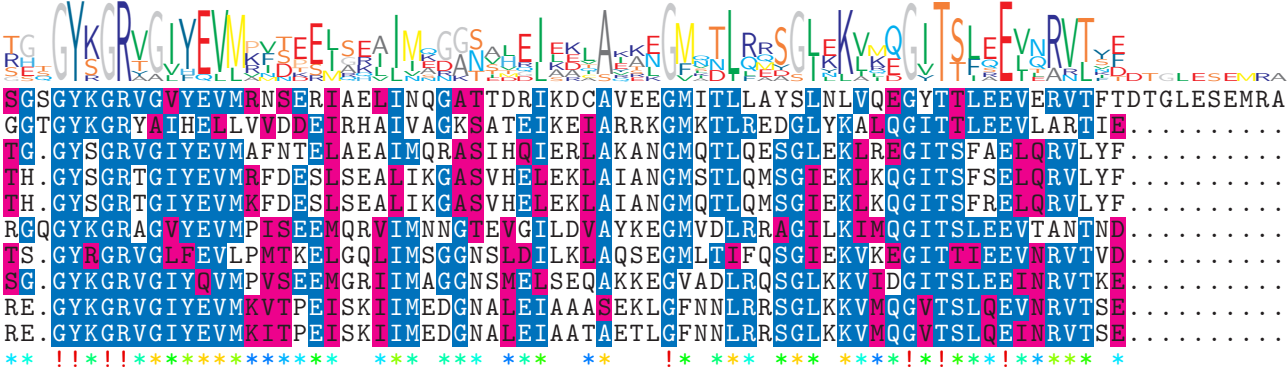
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 36773 NHAL RS18655 WP 041355203.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



561
819
493
492
492
488
505
502
501
501

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 36773 NHAL RS18655 WP 041355203.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus



641
889
562
561
561
558
574
571
570
570

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	KRKSALTCRTCAAELQQEWLDCPYCMTSRFS	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 36773 NHAL RS18655 WP 041355203.1	.....	571
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved