

```
NTDB id 1257 GCO85 RS04855 WP 163621000.1
NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 1193 PAKAF RS26665 WP 003161249.1
NTDB id 313036 AhaeAN43 RS01720 WP 171265847.1
NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus
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NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus
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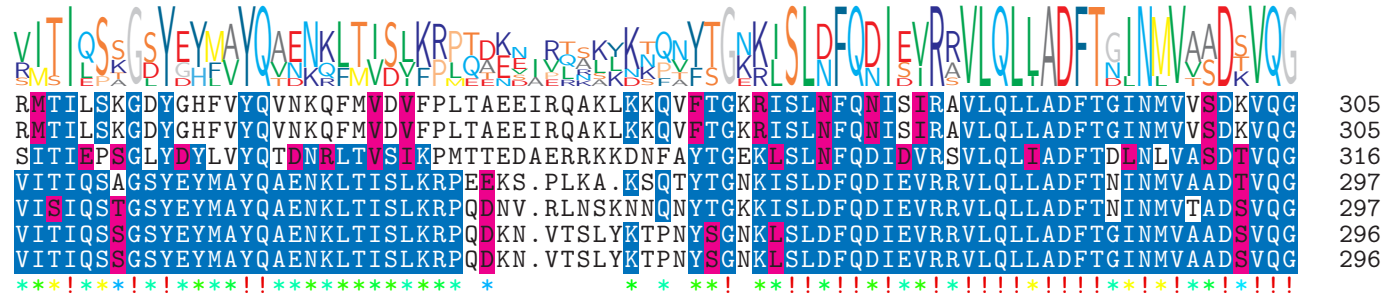
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consensus
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NTDB id 1257 GC085 RS04855 WP 163621000.1	NITLRLKDPWDQALDILVLTQGLDKRRKGNVWLIAPVAELIKAEFEAKAQAQSVKLAPLQTEYIQLNYAKAADIAKLI	385
NTDB id 1284 ACE17W RS12370 WP 010946666.1	DITLRLNDIPWDQALDIILTQGLDKRRKGNVMLIDTKASMDKMEEEQLKSQQTIEKLEPIRSDLIQINNYAKAADIAVLI	385
NTDB id 1193 PAKAF RS26665 WP 003161249.1	NITLRLQNVPWDQALDVLKTKGLDKRKLGNVLLVAPADEIAARERQLEAQQIAELAPLRRELIOQVNYAKAADIAKLF	396
NTDB id 313036 AhaeAN43 RS01720 WP 171265847.1	NITLRLKDVPWDQALDIVLKTKNLDKRRNGNVIWIAPVSELIKAEFEAKATAQSVKVLAPLQSEYIKLSYAKAADILKLI	377
NTDB id 1009 ACIAD RS15175 WP 004923730.1	NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEDEAKATAQSTKLAPLQTEYIILLKYAKAADIEKLI	377
NTDB id 1052 ABD1 RS15850 WP 001017033.1	NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEFEAKAVAQSVKVLAPLQTEYIQLKYAKAGDIMGLI	376
NTDB id 1039 HON27 RS01460 WP 031993779.1	NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVAELIKAEFEAKAVAQSVKVLAPLQTEYIQLKYAKAGDIMGLI	376
consensus	*!!!!*!*!!!!!!*!*!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!	

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NTDB id 1257 GC085 RS04855 WP 163621000.1	TQGSNNSNGLSNTSGGGTSTSTNLNTGVDSLGNVGSLLSPRGITITVDRNTLIINDTAQKIDQIRKMLDIPVKQV	434
NTDB id 1284 ACE17W RS12370 WP 010946666.1	KDKQN.....SLLSDRGKISVDARTNTIWIQDTGTKIIEVRELKQLDIPVKQV	434
NTDB id 1193 PAKAF RS26665 WP 003161249.1	KDKQN.....SLLSDRGKISVDARTNTIWIQDTGTKIIEVRELKQLDIPVKQV	434
NTDB id 313036 AhaeAN43 RS01720 WP 171265847.1	QSVTSDGGQE.....GKEGGRCSTITVDDRTNSIIAYQPQERLDELRIIVSQLDIPVRQV	450
NTDB id 1009 ACIAD RS15175 WP 004923730.1	EDSRDGGKAGMSNRTAN.....TDSLALIESLLSPRGSAVADVTRNTLIVNDTAQNMIDKIRKMVDLLDVSVKQV	444
NTDB id 1052 ABD1 RS15850 WP 001017033.1	TQGRNSGTSNSN.....TNGSATVEPLGDSVGTLLSPRGITISLDPRNTLIINDTASQKIDQIRKMLDIPVKQV	448
NTDB id 1039 HON27 RS01460 WP 031993779.1	TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNVGSLLSPRGITITQDDRTNTLIINDTAQSIDQIRKMLDIPVKQV	456
consensus	*.....*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!	

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NTDB id 1257 GC085 RS04855 WP 163621000.1	MIEARIVRATTSFTELGVKGLSQQITSSNNLNVGGSETTLWNLRPEKKSGTGGKYTLERPDNLNVDL	495
NTDB id 1284 ACE17W RS12370 WP 010946666.1	LIEARIVEVTKDFSQDIGIRWGVSRPTHLS.G.TLEGANE.....LARGT.APANVVPIL...E..RRNLNLDLAA	495
NTDB id 1193 PAKAF RS26665 WP 003161249.1	MIEARIVEANVGYDKSLGVRWGGAYHKGNSWG...YCKDGNIT.GIKDEDGMNCGPIAGSCTPTTGTSTKSPSPFVDL..	523
NTDB id 313036 AhaeAN43 RS01720 WP 171265847.1	MIEARIVRASTDFTRMGVKGWILSQQVTRNNDLLVGGSETTLWNLRPE...KDKSETGGWKYEI...ERPDNLNVDL..	516
NTDB id 1009 ACIAD RS15175 WP 004923730.1	MIEARIVRATTSFSEKMGVKGWILSQQINQNSNLLVGGSETTLWNLRNP...DSN.....GTYYTI...ERPDNLNVDL..	515
NTDB id 1052 ABD1 RS15850 WP 001017033.1	MVEARIVRASTSFTELGVKGLSQQITNNNNLLVGGSETTLWNLRPE...KDKDETTGGKYTYI...ERPDNLNVDL..	528
NTDB id 1039 HON27 RS01460 WP 031993779.1	MVEARIVRASTSFTELGVKGLSQQITNNNNLLVGGSETTLWNLRPE...KDKDETTGGKYTYI...ERPDNLNVDL..	528
consensus	*!!!!!!*!*.....*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!	

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NTDB id 1257 GC085 RS04855 WP 163621000.1	GVITP ASSAFGLISN SDFM DLELSALQADGYGEVISTPKVMTADKQAKIETGEVYPYQSTTSSGATSTATTSF	571
NTDB id 1284 ACE17W RS12370 WP 010946666.1	VPLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAIVIESGEEIPYQEATSSGAT...AVAF	571
NTDB id 1193 PAKAF RS26665 WP 003161249.1	APLTGATPASVGIALAKL.NDNILLDLELSALESEGRAELISSPRLITTNQQAIVIESGEEIPYQEATSSGAT...AVAF	571
NTDB id 313036 AhaeAN43 RS01720 WP 171265847.1	...GAKDA.TSGIGIGFI.TDNIILDLQLSAMEKTCNGEIVSQPKVVTSDKETAKILKGSEVPYQEASSSGAT...STSF	595
NTDB id 1009 ACIAD RS15175 WP 004923730.1	...GATTAGASRIAFGLISLSDFMLDLELSAVQADGYGEVISTPKVMTADKQPAKIESGTKIPYSSSTGAGANAVPKTEF	593
NTDB id 1052 ABD1 RS15850 WP 001017033.1	...GVTTTGASSIAFGLISLSDFMLDLELSALQADGYGEVISTPKVMSADKQAKVATGVEVPYQSTTNSAAGSTATTSF	592
NTDB id 1039 HON27 RS01460 WP 031993779.1	...GVSNP.AGSIAFGLISMDFMLDLELSALQADGYGEVISTPKVMTADKQTAQVATGQQVPYQSTTNSAAGSTATTSF	604
consensus	***** !*****!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!	

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NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus



650
650
675
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683

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NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus



698
698
714
710
709
721
721

☒ non conserved
☒ similar
☒ ≥ 50% conserved