

logo

NTDB id 1284	ACE17W	RS12370	WP 010946666.1	MRKIIAIIII..ISASISLMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ	78
NTDB id 1257	GCO85	RS04855	WP 163621000.1	MRKIIAIIIL..ISASISLAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDFISTDMQIPSDQ	78
NTDB id 1186	GTF74	RS01320	WP 000788426.1		0
NTDB id 1175	A1552VC	RS12105	WP 000788426.1		0
NTDB id 228555	CAY59	RS02475	WP 045369316.1		0
NTDB id 1408	DSB67	RS13980	WP 010643500.1		0
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKQLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLG..T	76
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLA..K	77
NTDB id 1052	ABD1	RS15850	WP 001017033.1	MNHVFRQFSMGAVAIAIMQAAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQGGLK..Q	77
NTDB id 1039	HON27	RS01460	WP 031993779.1	MNHVFRQFSMGAVAIAIMQAAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQGGLK..Q	77
consensus				* * * * *	

logo

NTDB id 1284	ACE17W	RS12370	WP 010946666.1	STIITYTNEASVDVSDDDRRRLINLNKGLSLYTRVEGNFSLVYN..SKQTLAREASS..PVPYVSMVFANQV	145
NTDB id 1257	GCO85	RS04855	WP 163621000.1	KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSKE.....VFITNQV	145
NTDB id 1186	GTF74	RS01320	WP 000788426.1	KTKTIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSVYSLVLNGKSNDLFENSKE.....VFITNQV	32
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	MKNGLKTY..VAQTWLTWVG...LALCASS.....MVFS.AE	32
NTDB id 228555	CAY59	RS02475	WP 045369316.1	MKNGLKTY..VAQTWLTWVG...LALCASS.....MVFS.AE	33
NTDB id 1408	DSB67	RS13980	WP 010643500.1	MKMRHGLTLTPRKLTGLFSLWFF...LLLA.....PFVA.AE	33
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	MKMRHGLTLTPRKLTGLFSLWFS...LLLA.....PFVA.AE	33
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	KNRELISVGNTRSVTVVEAKDRTRLINLTLTSSYTTRVEGNLNFVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY	156
NTDB id 1052	ABD1	RS15850	WP 001017033.1	SLIPVTTNEASSIDVSSDDKRARVVVNLKDGAFITTRVEGNVFILKINNIQSTAT.....PVAT..SA.....	138
NTDB id 1039	HON27	RS01460	WP 031993779.1	SKISVATNEASSVDVTSDDQRSRLTVNLKDGAFITTRVEGNVFILKINSAQTSNK.....PLPV..VS.....	138
consensus				* * * * *	

logo

NTDB id 1284	ACE17W	RS12370	WP 010946666.1	VNAKHEIKRIDFRGIEKQGGRLVIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV	225
NTDB id 1257	GCO85	RS04855	WP 163621000.1	VNAKHEIKRIDFRGIEKQGGRLVIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV	225
NTDB id 1186	GTF74	RS01320	WP 000788426.1	SATANQLENIDFRVNKEKA AVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST	112
NTDB id 1175	A1552VC	RS12105	WP 000788426.1	SATANQLENIDFRVNKEKA AVLIVELASPSAVVDVQKVQEGLSIELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPST	112
NTDB id 228555	CAY59	RS02475	WP 045369316.1	EVQSNLSKSIDFRTNKDKDAVIVVELASPA AIVDIKRVQEGLSIDLLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTT	113
NTDB id 1408	DSB67	RS13980	WP 010643500.1	EVQSNLSKSIDFRTNKDKDAVIVVELASPA AIVDIKRVQEGLSIDLLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTT	113
NTDB id 1193	PAKAF	RS26665	WP 003161249.1	VPAGRAIRNIDFQRGEKEGNNVVIDLSPTDIPIDVTQVGKEIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASASQSDRT	236
NTDB id 1009	ACIAD	RS15175	WP 004923730.1	PAPQGGIGNIGFQRGAQGEGLVVIDLQGTNTPVDVQQQGSKVVRFPGIKIPHTLARRLNTTDFATPVASIDSYNDGSNG	218
NTDB id 1052	ABD1	RS15850	WP 001017033.1	.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVRTIGTKIPHTLARRLNVNDFATPVSSIDAYNDKGVG	217
NTDB id 1039	HON27	RS01460	WP 031993779.1	.AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPVDVQQQGSKVVRTIGTKIPHTLARRLNVNDFATPVSSIDAYNDKGVG	217
consensus				* * * * *	

logo

```
NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 1257 GC085 RS04855 WP 163621000.1
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 228555 CAY59 RS02475 WP 045369316.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1193 PAKAF RS26665 WP 003161249.1
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
```

[illegible]

logo

```

NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 1257 GC085 RS04855 WP 163621000.1
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 228555 CAY59 RS02475 WP 045369316.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1193 PAKAF RS26665 WP 003161249.1
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

```


DLTLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEEQLEKSQQTIEKLPIRSDLIQINYAKAADI AVL I 385
DITLRINDIPWDQALDIILTQGLDKRRKGNVMLIDTKASMDKMEEEQLEKSQQTIEKLPIRSDLIQINYAKAADI AVL I 385
NLTLRLDGVPPWQQVLDIILTVKGLDKRVDGNVILIAPKEELDREKQALEKARLAHEELCDLKSEIIKINFAKASDIAAMI 271
NLTLRLDGVPPWQQVLDIILTVKGLDKRVDGNVILIAPKEELDREKQALEKARLAHEELCDLKSEIIKINFAKASDIAAMI 271
NLTLRLDGVPPWQQVLDIILTVKGLDKRVDGNVILIAPKEELDREKQALEKARLAHEELCDLKSEIIKINFAKASDIAEMI 272
NLTLRLDGVPPWQQVLDIILTVKGLDKRVDGNVILIAPKEELDREKQALEKARLAHEELCDLKSEIIKINFAKASDIAEMI 272
NITLRLQNVPWDQALDLVLTKTKGLDKRKLGNVLLVAPADETAARERQELEAQXIAELAPLRREL IQVNYAKAADI AKLF 396
NITLHLKDVPWDQALDIILKTKNLDKRRNGNVIIWIAPVSELIKSEEDEAKATAQSTKLAPLQTTEYILLKYAKAADI EKLI 377
NITLRLKDVPWDQALDIILKTKNLDKRRNGNVIIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTTEYIQLKYAKAGDIMGLI 376
NITLRLKDVDPWDQALDIILKTKNLDKRRNGNVIIWIAPVAELIKAEEEEAKAVAQSVKLAPLQTTEYIQLKYAKAGDIMGLI 376

logo

```

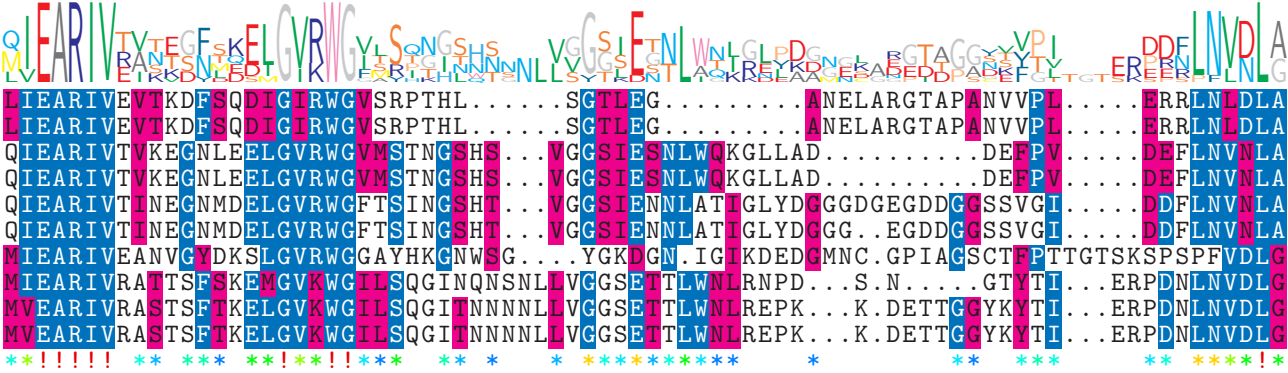
NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 1257 GC085 RS04855 WP 163621000.1
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 228555 CAY59 RS02475 WP 045369316.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1193 PAKAF RS26665 WP 003161249.1
NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus

```

Protein	Sequence	Position
KDKQ.N	SLLSDRGKISVDARTNTIIWIQDTGTKITEEVRELIIKQLDIPVKQV	434
KDKQ.N	SLLSDRGKISVDARTNTIIWIQDTGTKITEEVRELIIKQLDIPVKQV	434
GGEGLNV	NMLSERGSISIDERTNSLLIRELPDNIAVIREIIIESLDIPVKQV	321
GGEGLNV	NMLSERGSISIDERTNSLLIRELPDNIAVIREIIIESLDIPVKQV	321
NGEGLNI	SMLSDRGSMTIDERTNSLLIRELPENIEVIREIIIESLDIPVKQV	322
NGEGLNI	SMLSDRGSMTIDERTNSLLIRELPENIEVIREIIIESLDIPVKQV	322
QSVTSDGGQEG	KEGGRGSIIVDDRTNSIIAYQPQERLDELIRRIIVSQDLDPVVR	450
TQGRN	TSNGTSNSN.....TNGSATVEPLGDSVGTLLSPRGITISLDPRNTNTLIINDTSQKIDQIRKMTIDLLDIPVKQV	448
TQGS	NNSNGLQHTSGGGTSTSTNLNTGVDLSLGNVGSLLSPRGITITQDDRTNTLIINDTAQSIDQIRKMTIDLLDVQVKQV	456
TQGS	NNSNGLQHTSGGGTSTSTNLNTGVDLSLGNVGSLLSPRGITITQDDRTNTLIINDTAQSIDQIRKMTIDLLDVQVKQV	456

logo

NTDB id	1284	ACE17W	RS12370	WP	010946666.1
NTDB id	1257	GC085	RS04855	WP	163621000.1
NTDB id	1186	GTF74	RS01320	WP	000788426.1
NTDB id	1175	A1552VC	RS12105	WP	000788426.1
NTDB id	228555	CAY59	RS02475	WP	045369316.1
NTDB id	1408	DSB67	RS13980	WP	010643500.1
NTDB id	1193	PAKAF	RS26665	WP	003161249.1
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					



494
494
383
383
394
392
524
516
529
529

logo

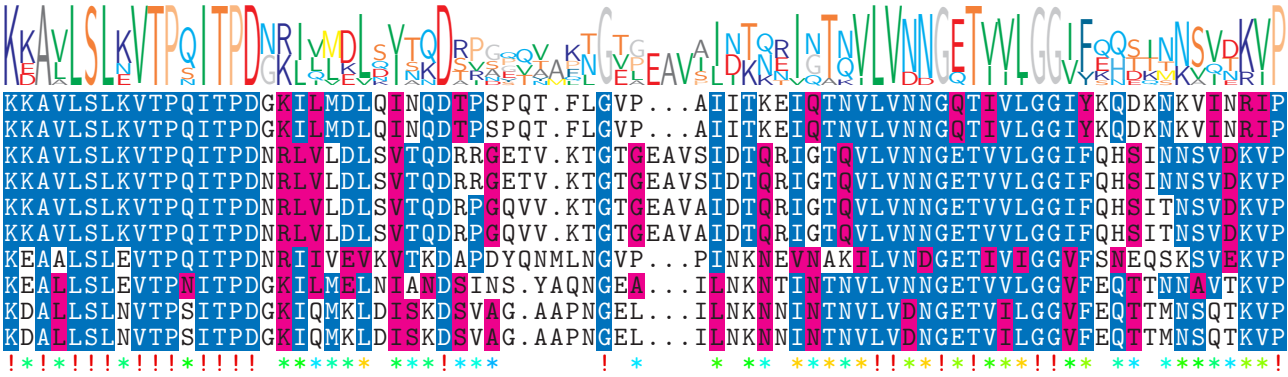
NTDB id	1284	ACE17W	RS12370	WP	010946666.1
NTDB id	1257	GC085	RS04855	WP	163621000.1
NTDB id	1186	GTF74	RS01320	WP	000788426.1
NTDB id	1175	A1552VC	RS12105	WP	000788426.1
NTDB id	228555	CAY59	RS02475	WP	045369316.1
NTDB id	1408	DSB67	RS13980	WP	010643500.1
NTDB id	1193	PAKAF	RS26665	WP	003161249.1
NTDB id	1009	ACIAD	RS15175	WP	004923730.1
NTDB id	1052	ABD1	RS15850	WP	001017033.1
NTDB id	1039	HON27	RS01460	WP	031993779.1
consensus					



571
571
457
457
468
466
595
592
604
604

logo

NTDB id	1284	ACE17W	RS12370	WP	010946666.1
NTDB id	1257	GC085	RS04855	WP	163621000.1
NTDB id	1186	GTF74	RS01320	WP	000788426.1
NTDB id	1175	A1552VC	RS12105	WP	000788426.1
NTDB id	228555	CAY59	RS02475	WP	045369316.1
NTDB id	1408	DSB67	RS13980	WP	010643500.1
NTDB id	1193	PAKAF	RS26665	WP	003161249.1
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					



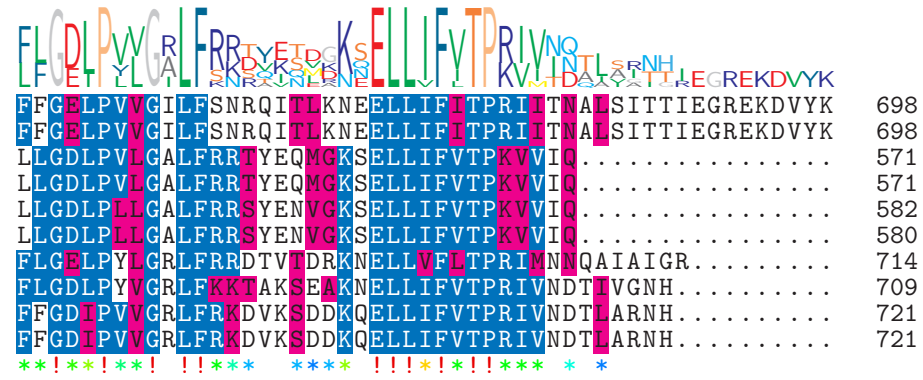
647
647
536
536
547
545
672
668
680
680

logo

```

NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 1257 GC085 RS04855 WP 163621000.1
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 228555 CAY59 RS02475 WP 045369316.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1193 PAKAF RS26665 WP 003161249.1
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

```



-  non conserved
-  similar
-  $\geq 50\%$ conserved