

logo

|                                             |                                                                                    |    |
|---------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 1284 ACE17W RS12370 WP 010946666.1  | MRKIIAIIIL..ISASISLMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDLFISTDMQIPSDQ | 78 |
| NTDB id 1257 GC085 RS04855 WP 163621000.1   | MRKIIAIIIL..ISASISLMAYSKDNSLISVKVLPLPENRVRIDFQFSKPLKQLPASFITQKPPRLVLDLFISTDMQIPSDQ | 78 |
| NTDB id 1186 GTF74 RS01320 WP 000788426.1   | .....                                                                              | 0  |
| NTDB id 1175 A1552VC RS12105 WP 000788426.1 | .....                                                                              | 0  |
| NTDB id 263889 C1S76 RS12915 WP 045412013.1 | .....                                                                              | 0  |
| NTDB id 1408 DSB67 RS13980 WP 010643500.1   | .....                                                                              | 0  |
| NTDB id 1193 PAKAF RS26665 WP 003161249.1   | MNSGLSRLGIALLAA.MFAPALLAADLEKLDVAALPGDRVELKQLQFDEPVA.APRGYTIEQPARTIALDLPGVQNKLG..T | 76 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1   | MKQIIRQFSIGTVAYAIMQVSAQVAITNVVPMNIPGGTEIRVMFNGLPP.QPQAYQLEQPARLLIDFDKAGQKLA..K     | 77 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1    | MNHVFRQFSMGAVAIAIMQAAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLLIDFDKAQQGLK..Q  | 77 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1   | MNHVFRQFSMGAVAIAIMQAAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLLIDFDKAQQGLK..Q  | 77 |
| consensus                                   | * * * * *                                                                          |    |

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|---------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1284 ACE17W RS12370 WP 010946666.1  | KTKTIIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSKE.....VFITNQV        | 145 |
| NTDB id 1257 GC085 RS04855 WP 163621000.1   | KTKTIIQLGSLHSYNIVAVGDRVRAILELDRSVSYSGSTAGSIYSLVLNGKSNDLFENSKE.....VFITNQV        | 145 |
| NTDB id 1186 GTF74 RS01320 WP 000788426.1   | .....MKNGLKTY..VAQTWLTWVG....LALCASS.....MVFSAE.                                 | 32  |
| NTDB id 1175 A1552VC RS12105 WP 000788426.1 | .....MKNGLKTY..VAQTWLTWVG....LALCASS.....MVFSAE.                                 | 32  |
| NTDB id 263889 C1S76 RS12915 WP 045412013.1 | .....MKMRQGLTLTPRKLAFISLWFF....LLLAP.....FVAAQ.                                  | 33  |
| NTDB id 1408 DSB67 RS13980 WP 010643500.1   | .....MKMRHGLTLTPRKLTLFSLWFS....LLLAP.....FVAAE.                                  | 33  |
| NTDB id 1193 PAKAF RS26665 WP 003161249.1   | KNRELISVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNLFFVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY | 156 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1   | SLIPVTTNEASSIDVSSDDKRARVVVNLKDGAFITTRVEGNVFILKINNIQSTAT.....PVAT..SA.....        | 138 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1    | SKISVATNEASSVDVTSDDQRSRLTVNLKDGAFITTRVEGNVFILKINSAQTSNK.....PLPV..VS.....        | 138 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1   | SKISVATNEASSVDVTSDDQRSRLTVNLKDGAFITTRVEGNVFILKINSAQTSNK.....PLPV..VS.....        | 138 |
| consensus                                   | * * * * *                                                                        |     |

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|---------------------------------------------|-------------------------------------------------------------------------------------|-----|
| NTDB id 1284 ACE17W RS12370 WP 010946666.1  | VNAKHEIKRIDFRGIEKQGGRLVIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV    | 225 |
| NTDB id 1257 GC085 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 263889 C1S76 RS12915 WP 045412013.1 | EVKSNLSKTIIDFRITNKDKDAVIVVELASPA AIVDIKRVQEGLSIDLLNTSVKDDQLYLLDVKDFSTVVESIEIFRDTSTT | 113 |
| NTDB id 1408 DSB67 RS13980 WP 010643500.1   | EVQSNLSKSIIDFRITNKDKDAVIVVELVSPA AIVDIKRVQEGLSIDLLNTSVKDDQLYLLDVKDFSTVVESVEVFRDTSTT | 113 |
| NTDB id 1193 PAKAF RS26665 WP 003161249.1   | VPAGRAIRNIDFQRGEKGEKNVVIDLSPTDIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV    | 236 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1   | PAPQGGIGNIGFQRGAQGEGLVVIDLQGTNTPDVQVQGGSKVVRFPGIKIPHTLARRLNTTDFATPVASIDSYNDGSGNG    | 218 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1    | .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPDVQVQGGSKVVIRTIGTKIPHTLARRLNVNDFATPVSSIDAYNDKGVG    | 217 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1   | .AQPQGVSNIGFQRGSQGEGLVVVDLLGSNTPDVQVQGGSKVVIRTIGTKIPHTLARRLNVNDFATPVSSIDAYNDKGVG    | 217 |
| consensus                                   | * * * * *                                                                           |     |

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NTDB id 1284 ACE17W RS12370 WP 010946666.1
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consensus

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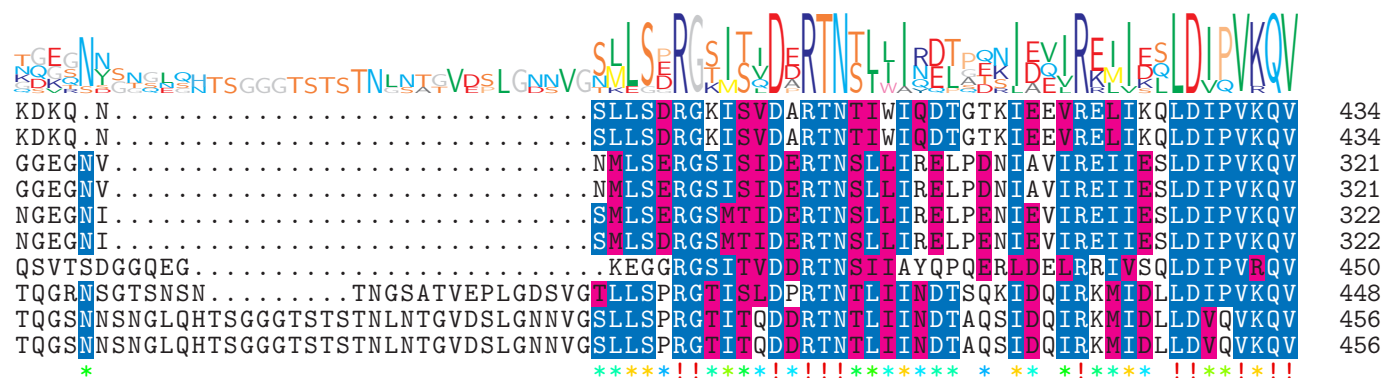


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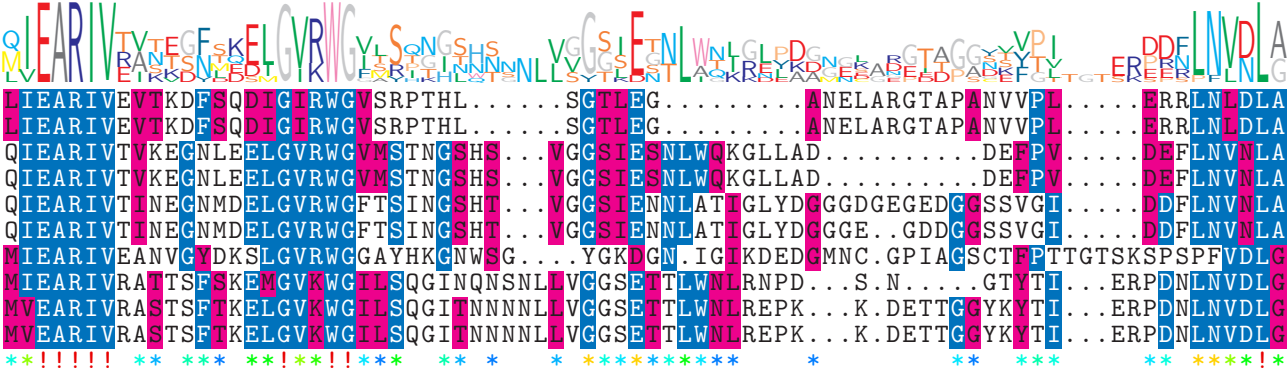
NTDB id 1284 ACE17W RS12370 WP 010946666.1
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| NTDB id   | 1284   | ACE17W  | RS12370 | WP | 010946666.1 |
| NTDB id   | 1257   | GC085   | RS04855 | WP | 163621000.1 |
| NTDB id   | 1186   | GTF74   | RS01320 | WP | 000788426.1 |
| NTDB id   | 1175   | A1552VC | RS12105 | WP | 000788426.1 |
| NTDB id   | 263889 | C1S76   | RS12915 | WP | 045412013.1 |
| NTDB id   | 1408   | DSB67   | RS13980 | WP | 010643500.1 |
| NTDB id   | 1193   | PAKAF   | RS26665 | WP | 003161249.1 |
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| NTDB id   | 1052   | ABD1    | RS15850 | WP | 001017033.1 |
| NTDB id   | 1039   | HON27   | RS01460 | WP | 031993779.1 |
| consensus |        |         |         |    |             |



494  
494  
383  
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logo

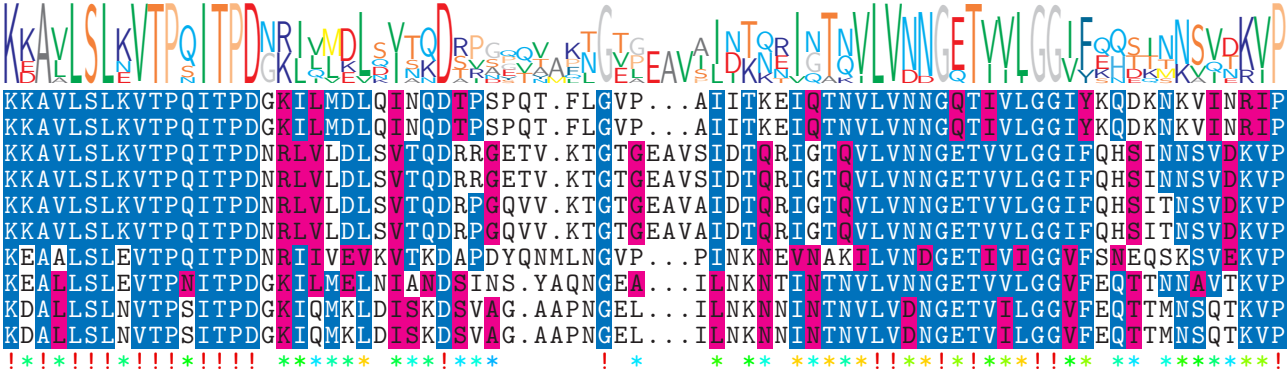
|           |        |         |         |    |             |
|-----------|--------|---------|---------|----|-------------|
| NTDB id   | 1284   | ACE17W  | RS12370 | WP | 010946666.1 |
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| NTDB id   | 1039   | HON27   | RS01460 | WP | 031993779.1 |
| consensus |        |         |         |    |             |



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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 |
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| NTDB id   | 1039   | HON27   | RS01460 | WP | 031993779.1 |
| consensus |        |         |         |    |             |



647  
647  
536  
536  
547  
545  
672  
668  
680  
680

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NTDB id 1284 ACE17W RS12370 WP 010946666.1
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NTDB id 1052 ABD1 RS15850 WP 001017033.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus

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

698  
698  
571  
571  
582  
580  
714  
709  
721  
721