

|           |                                       |                                                                                     |    |
|-----------|---------------------------------------|-------------------------------------------------------------------------------------|----|
| NTDB id   | 1193 PAKAF RS26665 WP 003161249.1     | .....MNSGLSRLGIALAA MFAPALLAADLEKIDVAALPGDRVLELKLQFDEPVAAPRGYTTIEQPARI A            | 64 |
| NTDB id   | 1002879 ABEF84 RS01710 WP 347473747.1 | MNKSFKKEFIFGDGNIMNHVFRQFSMGAVAIAVMQAASAQIATITNVVPMPQVPGQGTEIRVMFNGLPPQPQAYQLESPSRLI | 80 |
| NTDB id   | 1009 ACIAD RS15175 WP 004923730.1     | .....MKQLTRQFSIGTVAYAIMMQVVASAQQVAITNVVPMINIPGGGTEIRVMFNGLPPQPQAYQLEQPARLI          | 65 |
| NTDB id   | 1052 ABD1 RS15850 WP 001017033.1      | .....MNHVFRQFSMGAVAIAIMQAASAQVSMNTIVPMQIAGQGTEIRVMFNGLPPQPQAYQLENPSRLI              | 65 |
| NTDB id   | 1039 HON27 RS01460 WP 031993779.1     | .....MNHVFRQFSMGAVAIAIMQAASAQVSMNTIVPMQIAGQGTEIRVMFNGLPPQPQAYQLENPSRLI              | 65 |
| consensus |                                       | !*****!******!*****!*****!*****!*****!*****!*****!                                  |    |

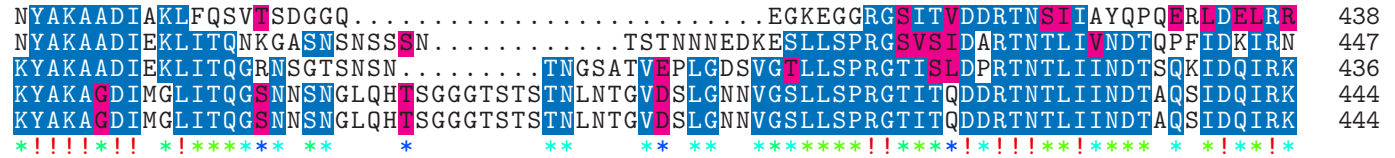
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| NTDB id   | 1002879 | ABEF84 | RS01710 | WP | 347473747.1 | LDFEQAAQNQLKQSNTPVATKEASSVDVSDDAQRARLTVNLADAGAFTTTRVEGNTFILKINSNSPVANV.....QP   | 150 |
| NTDB id   | 1009    | ACIAD  | RS15175 | WP | 004923730.1 | LDFDKAGQKLAKSLIPVTNEASSIDVSSDDKRARRVVNVLKDAGAFTTTRVEGNVFILKINNIIQTATP.....VA    | 135 |
| NTDB id   | 1052    | ABD1   | RS15850 | WP | 001017033.1 | LDFDKAQQLGLKQSKITSVATNEASSVDVTSDDDRRLTVNLKDAGAFTTTRVEGNTFILKINSQAQTSNKP.....LP  | 135 |
| NTDB id   | 1039    | HON27  | RS01460 | WP | 031993779.1 | LDFDKAQQLGLKQSKITSVATNEASSVDVTSDDDRRLTVNLKDAGAFTTTRVEGNTFILKINSQAQTSNKP.....LP  | 135 |
| consensus |         |        |         |    |             | !!*****!* ** * *****! ** ****!* ! ** !! *******!!!!!!***** ** *                 | **  |

|                                               |                                                                                  |     |
|-----------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1193 PAKAF RS26665 WP 003161249.1     | ASYAQPIKPKPYVPAGRAIRNIDFQRGEKGEGNVVIDLSDPTLSPDIQEQGGKIRDFAKTQLPDALRVRLDVKDFATPV  | 224 |
| NTDB id 1002879 ABEF84 RS01710 WP 347473747.1 | V.....V.QQAVQGGINIGFQRGAKEGQVVVDLASGDTPVDVQQQGTIVVRALGSKIPVHLTRRLNVNDFATPV       | 220 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1     | T.....SAPAPQGGIGNIGFQRGAQGEGLVVDLQGTNPVDVQQQGSKVVRFPGITIKIPHTLARRLNITDFATPV      | 206 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1      | V.....VS.AQPQGVSNIGFQRSQGEGLVVDLGSNTPVDVQQQGSKVVRTITGTKIPTHLLARRLNVNDFATPV       | 205 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1     | V.....VS.AQPQGVSNIGFQRSQGEGLVVDLGSNTPVDVQQQGSKVVRTITGTKIPTHLLARRLNVNDFATPV       | 205 |
| consensus                                     | *          *      ***!*!!!!!!*!?!*!?!*!*****!*?!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*!*! |     |

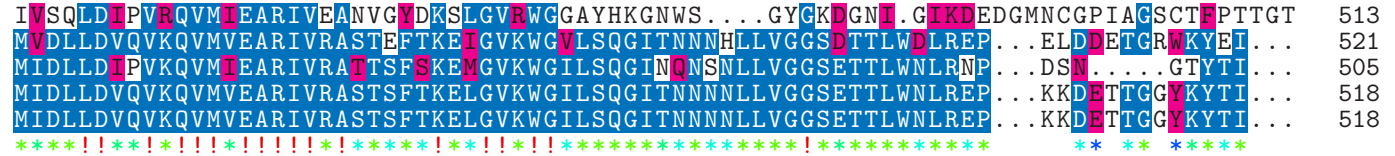
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| NTDB id 1002879 ABEF84 RS01710 WP 347473747.1 | STVDAYNQNGSGGVITIQTSDSYEYMAYQTDNKLTVSLKRPEEKN.PLRPKAAHHYTGKKISLDFQDIEVRRVLQLLADFT  | 299 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1     | ASIDSYNDGSNGVISIQSTGSYEYMAYQAENKLTIISLKRPQDNV.RLNSKNNQNYYTGKKISLDFQDIEVRRVLQLLADFT | 285 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1      | SSIDAYNDKGVGVTIIQSSEYSYEMAYQAENKLTIISLKRPQDKN.VTSLYKTNPYSGNKLSLDFQDIEVRRVLQLLADFT  | 284 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1     | SSIDAYNDKGVGVTIIQSSEYSYEMAYQAENKLTIISLKRPQDKN.VTSLYKTNPYSGNKLSLDFQDIEVRRVLQLLADFT  | 284 |
| consensus                                     | ***** * ** * ! * * * * ! * * * ! * * ! * * ! * * * * * *                           |     |

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|-----------------------------------------------|---------------------------------------------------------------------------------------|-----|
| NTDB id 1193 PAKAF RS26665 WP 003161249.1     | D LNLVASDITVQGNITLRLQNVPWDQALDLVLKTKGLDKRKLGNVLIVAPADEIAARERQELEAQKQIAELAPLRRELITQV   | 384 |
| NTDB id 1002879 ABEF84 RS01710 WP 347473747.1 | DINMVAADSVQGNITLRLKEVPWDQALDI VLKTKNLDKRRNGNVIWIAPVT ELAKAEIEEEAKALAQS AKLAPIQT EYIQL | 379 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1     | NINMV TADSVQGNITLHLKDVPWDQALDIILKTKNLDKRRNGNVIWIAPVS ELIKSEED EAKA IAQST KLAPLQTEYILL | 365 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1      | GINMVAADSVQGNITLRLKDVDPWDQALDIILKTKNLDKRRNGNVIWIAPVA ELIKAEIEEEEAKAVAQSV KLAPLQTEYIQL | 364 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1     | GINMVAADSVQGNITLRLKDVDPWDQALDIILKTKNLDKRRNGNVIWIAPVA ELIKAEIEEEEAKAVAQSV KLAPLQTEYIQL | 364 |
| consensus                                     | * * * * *                                                                             |     |

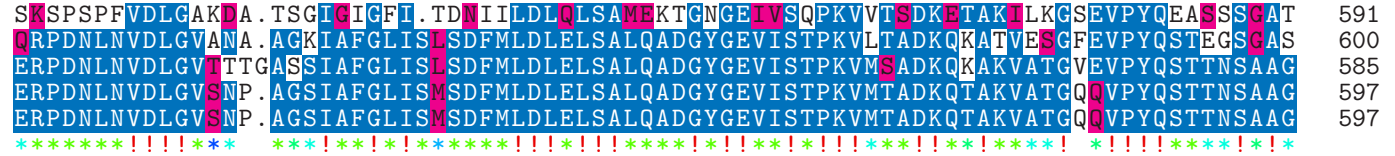
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NTDB id 1002879 ABEF84 RS01710 WP 347473747.1
NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus
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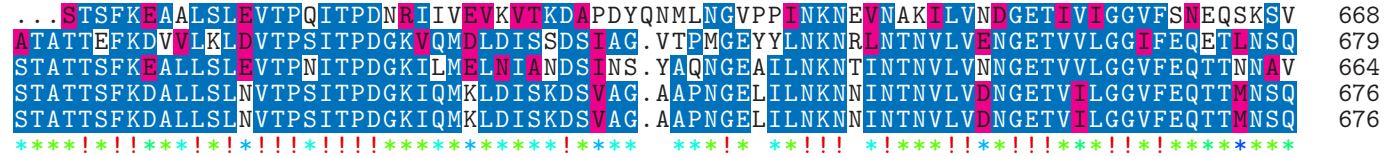
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NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus
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NTDB id 1052 ABD1 RS15850 WP 001017033.1  
NTDB id 1039 HON27 RS01460 WP 031993779.1  
consensus



 non conserved  
 similar  
  $\geq 50\%$  conserved