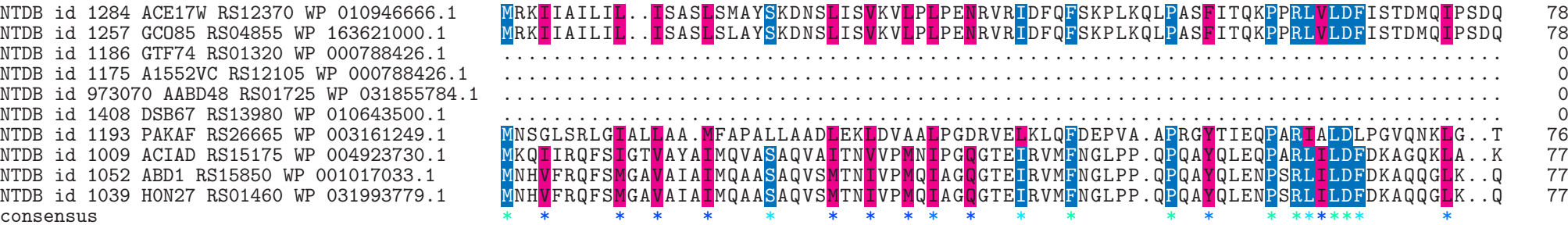
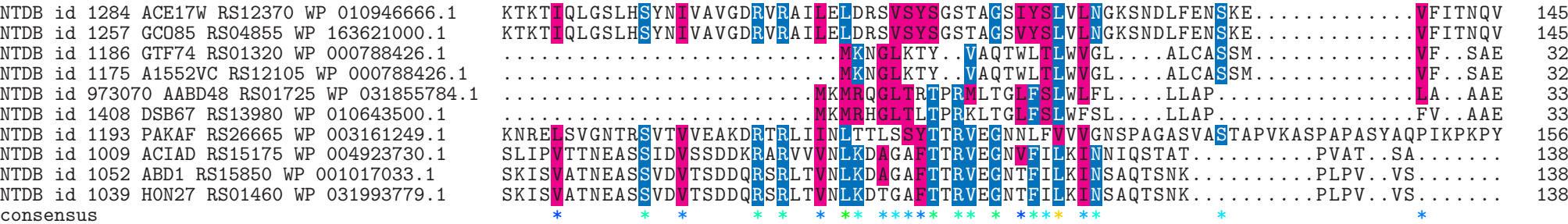


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|           |        |         |         |    |             |                                                                                      |     |
|-----------|--------|---------|---------|----|-------------|--------------------------------------------------------------------------------------|-----|
| NTDB id   | 1284   | ACE17W  | RS12370 | WP | 010946666.1 | RMTILSKGCDYGHFVYQVNMKQFMVDVFPILTAEIRQAKLKKQVFTGKRISLNFQNIISIRAVLQLLADFTGINM VVSDKVQG | 305 |
| NTDB id   | 1257   | GCO85   | RS04855 | WP | 163621000.1 | RMTILSKGCDYGHFVYQVNMKQFMVDVFPILTAEIRQAKLKKQVFTGKRISLNFQNIISIRAVLQLLADFTGINM VVSDKVQG | 305 |
| NTDB id   | 1186   | GTF74   | RS01320 | WP | 000788426.1 | QLVVTVDGEFQHDYTLKGKYLEVVISKLKADKPK.PKSVLEKEGKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVG      | 191 |
| NTDB id   | 1175   | A1552VC | RS12105 | WP | 000788426.1 | QLVVTVDGEFQHDYTLKGKYLEVVISKLKADKPK.PKSVLEKEGKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVG      | 191 |
| NTDB id   | 973070 | AABD48  | RS01725 | WP | 031855784.1 | RLVAYIDEETHDYRLTGRYLEITVSKLKPNEKVP.DKSILEKEGKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVG      | 192 |
| NTDB id   | 1408   | DSB67   | RS13980 | WP | 010643500.1 | RLVAYIDEETHDYRLTGRYLEITVSKLKPNEKVP.DKSILEKEGKLISINFQDIPVRNVLQLIADYNGFNLVVSDSVVG      | 192 |
| NTDB id   | 1193   | PAKAF   | RS26665 | WP | 003161249.1 | SITIEPSGLYDYL VYQTDNRLTVSIKPMTTEDAEERRKKDNFAVYTGKISLNFQDIDVRSVLQLIADFTDINLVASDTVQG   | 316 |
| NTDB id   | 1009   | ACIAD   | RS15175 | WP | 004923730.1 | VISIQTSGSYEYMAQYQENKLTISLKPQDNV.RLNSKNNQNYVTGKISLDFQDIEVRRVLQLLADFTNINMVTADSQQ       | 297 |
| NTDB id   | 1052   | ABD1    | RS15850 | WP | 001017033.1 | VITIQSSGSYEYMAQYQENKLTISLKPQDNV.VTSLYKTPNYSCKISLDFQDIEVRRVLQLLADFTGINMVAADSQQ        | 296 |
| NTDB id   | 1039   | HON27   | RS01460 | WP | 031993779.1 | VITIQSSGSYEYMAQYQENKLTISLKPQDNV.VTSLYKTPNYSCKISLDFQDIEVRRVLQLLADFTGINMVAADSQQ        | 296 |
| consensus |        |         |         |    |             | *** * *** * ** * * *** * *** * * !***!***!!*! *! !!!!!*!***!!*!***!!*!               |     |

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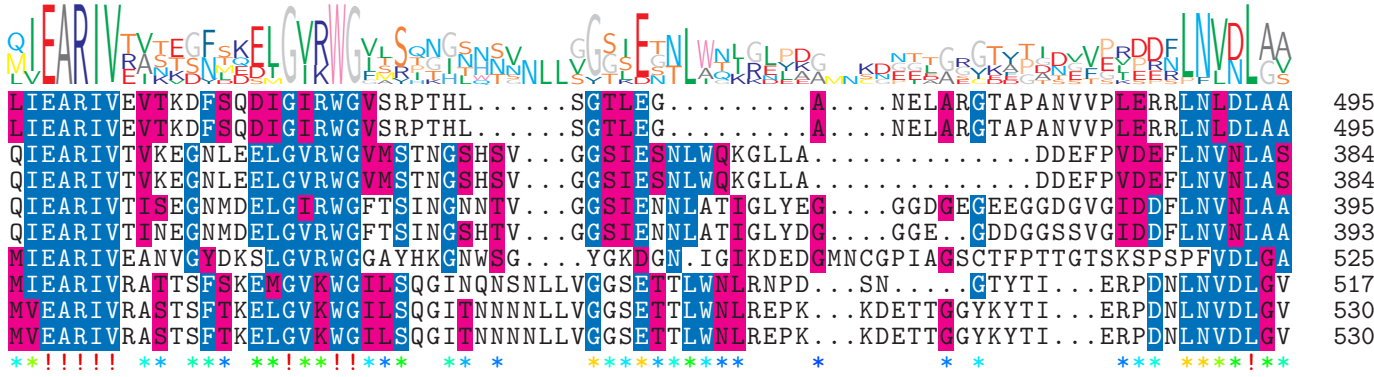
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|-----------|--------|---------|---------|----|-------------|-------------------------------------------------------------------------------------|-----|
| NTDB id   | 1284   | ACE17W  | RS12370 | WP | 010946666.1 | NITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEBQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI    | 385 |
| NTDB id   | 1257   | GCO85   | RS04855 | WP | 163621000.1 | NITLRLNDIPWDQALDIILTTQGLDKRRKGNVMLIDTKASMDKMEEBQLKSQQTIEKLEPIRSDLIQINYAKAADIAVLI    | 385 |
| NTDB id   | 1186   | GTF74   | RS01320 | WP | 000788426.1 | NITLRLDGVWPQQVLDIILQVKGLDKRVDGNVILIAPKEELDIREKQALEKARLAEELGDLKSEITIKINFAKASDIAAMI   | 271 |
| NTDB id   | 1175   | A1552VC | RS12105 | WP | 000788426.1 | NITLRLDGVWPQQVLDIILQVKGLDKRVDGNVILIAPKEELDIREKQALEKARLAEELGDLKSEITIKINFAKASDIAAMI   | 271 |
| NTDB id   | 973070 | AABD48  | RS01725 | WP | 031855784.1 | NITLRLDGVWPQQVLDIILQVKGLDKRVDGNVILVAPTDELDIREKQALEKQKLTTEMGELSEITIKINFAKASDIAEMI    | 272 |
| NTDB id   | 1408   | DSB67   | RS13980 | WP | 010643500.1 | NITLRLDGVWPQQVLDIILQVKGLDKRVDGNVILVAPTDELDIREKQALEKQKLTTEMGELSEITIKINFAKASDIAEMI    | 272 |
| NTDB id   | 1193   | PAKAF   | RS26665 | WP | 003161249.1 | NITLRLQNVPDQALDVLKTKGLDKRKLGNVLLVAPADETAARERQELEAQKQIAELAPLHRELIQVNYAKAADIAKLF      | 396 |
| NTDB id   | 1009   | ACIAD   | RS15175 | WP | 004923730.1 | NITLRLKDVDPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDAKAIAQSTKLAPLQTEYILKYAKAADIEKLI     | 377 |
| NTDB id   | 1052   | ABD1    | RS15850 | WP | 001017033.1 | NITLRLKDVDPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDAKAIAQSTKLAPLQTEYILKYAKAADIEKLI     | 376 |
| NTDB id   | 1039   | HON27   | RS01460 | WP | 031993779.1 | NITLRLKDVDPWDQALDIILKTKNLDKRRNGNVIWIAPVSELIKSEEDAKAIAQSTKLAPLQTEYILKYAKAADIEKLI     | 376 |
| consensus |        |         |         |    |             | ***!!*! **!!*!***!!*! ***!!!!* !!!*****!!!!!!*! * * * * * * * * * * * * * * * * * * |     |

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|-----------|--------|---------|---------|----|-------------|--------------------------------------------------------------------------------|-----|
| NTDB id   | 1284   | ACE17W  | RS12370 | WP | 010946666.1 | KDKQ.N.....SLLSDRGKISVDARTNTIWIQDTGKTIIEVRELIKQLDIPVKQV                        | 434 |
| NTDB id   | 1257   | GCO85   | RS04855 | WP | 163621000.1 | KDKQ.N.....SLLSDRGKISVDARTNTIWIQDTGKTIIEVRELIKQLDIPVKQV                        | 434 |
| NTDB id   | 1186   | GTF74   | RS01320 | WP | 000788426.1 | GEGENV.....NMLSERGSISIDERTNSLLIRELPDNIAVIREIIESLDIPVKQV                        | 321 |
| NTDB id   | 1175   | A1552VC | RS12105 | WP | 000788426.1 | GEGENV.....NMLSERGSISIDERTNSLLIRELPDNIAVIREIIESLDIPVKQV                        | 321 |
| NTDB id   | 973070 | AABD48  | RS01725 | WP | 031855784.1 | NGEENI.....SMLSERGSMTIDERTNSLLIRELPDNIAVIREIIESLDIPVKQV                        | 322 |
| NTDB id   | 1408   | DSB67   | RS13980 | WP | 010643500.1 | NGEENI.....SMLSERGSMTIDERTNSLLIRELPDNIAVIREIIESLDIPVKQV                        | 322 |
| NTDB id   | 1193   | PAKAF   | RS26665 | WP | 003161249.1 | QSVTSDGGQEG.....KEGGRGSITVDDRTNSIIAYQPQERLDELRRIVSQLDIPVRQV                    | 450 |
| NTDB id   | 1009   | ACIAD   | RS15175 | WP | 004923730.1 | TQGRNSGTSNSN.....TNGSATVEPLGDSVGILLSPRCTISIDPRTNLLINDTSQKIDQIRKMIIDLIPVKQV     | 448 |
| NTDB id   | 1052   | ABD1    | RS15850 | WP | 001017033.1 | TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNVVGILLSPRCTITQDDRTNLLINDTAQSIDQIRKMIIDLIPVKQV | 456 |
| NTDB id   | 1039   | HON27   | RS01460 | WP | 031993779.1 | TQGSNNSNGLQHTSGGGTSTSTNLNTGVDSLGNVVGILLSPRCTITQDDRTNLLINDTAQSIDQIRKMIIDLIPVKQV | 456 |
| consensus |        |         |         |    |             | * *****!***!!*!!!!***** * * * * * * * * * * * * * * * * * *                    |     |

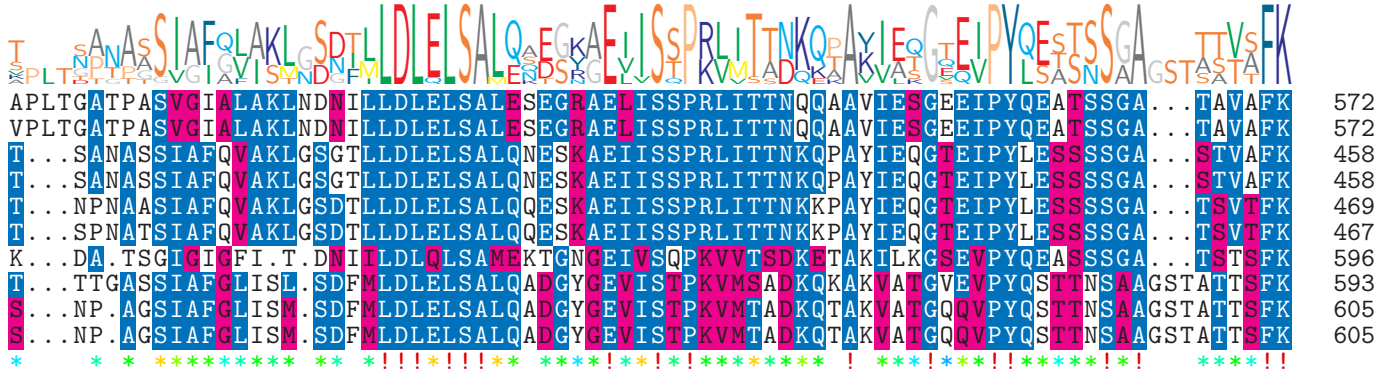
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|-----------|----|--------|---------|---------|----|-------------|
| NTDB      | id | 1284   | ACE17W  | RS12370 | WP | 010946666.1 |
| NTDB      | id | 1257   | GCO85   | RS04855 | WP | 163621000.1 |
| NTDB      | id | 1186   | GTF74   | RS01320 | WP | 000788426.1 |
| NTDB      | id | 1175   | A1552VC | RS12105 | WP | 000788426.1 |
| NTDB      | id | 973070 | AABD48  | RS01725 | WP | 031855784.1 |
| 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 |    |        |         |         |    |             |



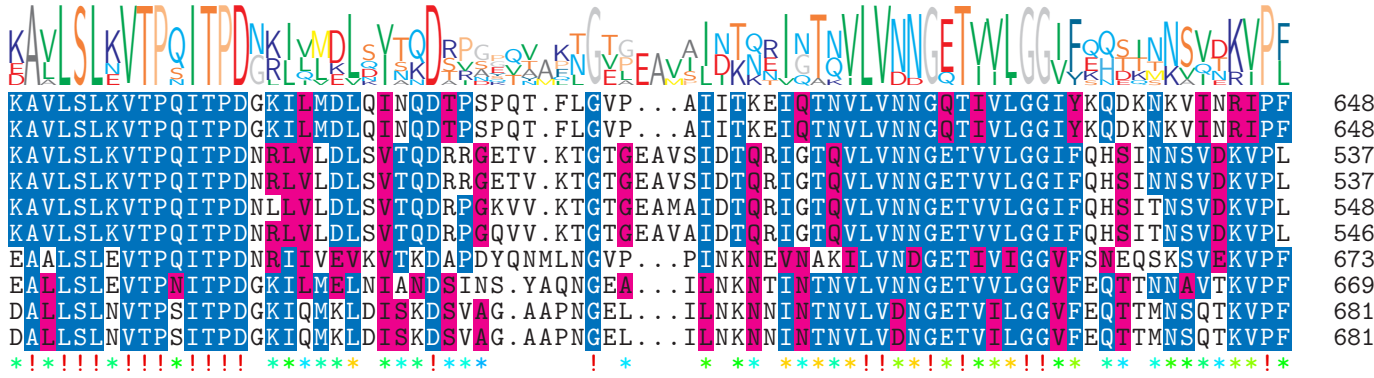
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|-----------|----|--------|---------|---------|----|-------------|
| NTDB      | id | 1284   | ACE17W  | RS12370 | WP | 010946666.1 |
| NTDB      | id | 1257   | GCO85   | RS04855 | WP | 163621000.1 |
| NTDB      | id | 1186   | GTF74   | RS01320 | WP | 000788426.1 |
| NTDB      | id | 1175   | A1552VC | RS12105 | WP | 000788426.1 |
| NTDB      | id | 973070 | AABD48  | RS01725 | WP | 031855784.1 |
| 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 |    |        |         |         |    |             |



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|-----------|----|--------|---------|---------|----|-------------|
| NTDB      | id | 1284   | ACE17W  | RS12370 | WP | 010946666.1 |
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| NTDB      | id | 1186   | GTF74   | RS01320 | WP | 000788426.1 |
| NTDB      | id | 1175   | A1552VC | RS12105 | WP | 000788426.1 |
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| 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 |    |        |         |         |    |             |



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|                                              |                                                                                                   |     |
|----------------------------------------------|---------------------------------------------------------------------------------------------------|-----|
| NTDB id 1284 ACE17W RS12370 WP 010946666.1   | FGE L P V V G I L F S N R Q I T L K N E E L L I F V T P R I I T N A L S I T T I E G R E K D V Y K | 698 |
| NTDB id 1257 GC085 RS04855 WP 163621000.1    | FGE L P V V G I L F S N R Q I T L K N E E L L I F V T P R I I T N A L S I T T I E G R E K D V Y K | 698 |
| NTDB id 1186 GTF74 RS01320 WP 000788426.1    | L G D L P V L G A L F R R T Y E Q M C K S E L L I F V T P K V V I Q . . . . .                     | 571 |
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| NTDB id 973070 AABD48 RS01725 WP 031855784.1 | L G D L P L L G A L F R R S Y E N V G K S E L L I F V T P K V V I Q . . . . .                     | 582 |
| NTDB id 1408 DSB67 RS13980 WP 010643500.1    | L G D L P L L G A L F R R S Y E N V G K S E L L I F V T P K V V I Q . . . . .                     | 580 |
| NTDB id 1193 PAKAF RS26665 WP 003161249.1    | L G E L P Y L G R L F R R D T V I D R K N E L L V F L T P R I M N N Q A I A I G R . . . . .       | 714 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1    | L G D L P Y V G R L F K K T A K S E A K N E L L I F V T P R I V N D T I V G N H . . . . .         | 709 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1     | F G D I P V V G R L F R K D V K S D D K Q E L L I F V T P R I V N D T L A R N H . . . . .         | 721 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1    | F G D I P V V G R L F R K D V K S D D K Q E L L I F V T P R I V N D T L A R N H . . . . .         | 721 |
| consensus                                    | * ! * * ! * * ! ! ! * * * * * * * * * ! ! ! * ! * ! ! * * * * * * *                               |     |

- non conserved
- similar
- ≥ 50% conserved