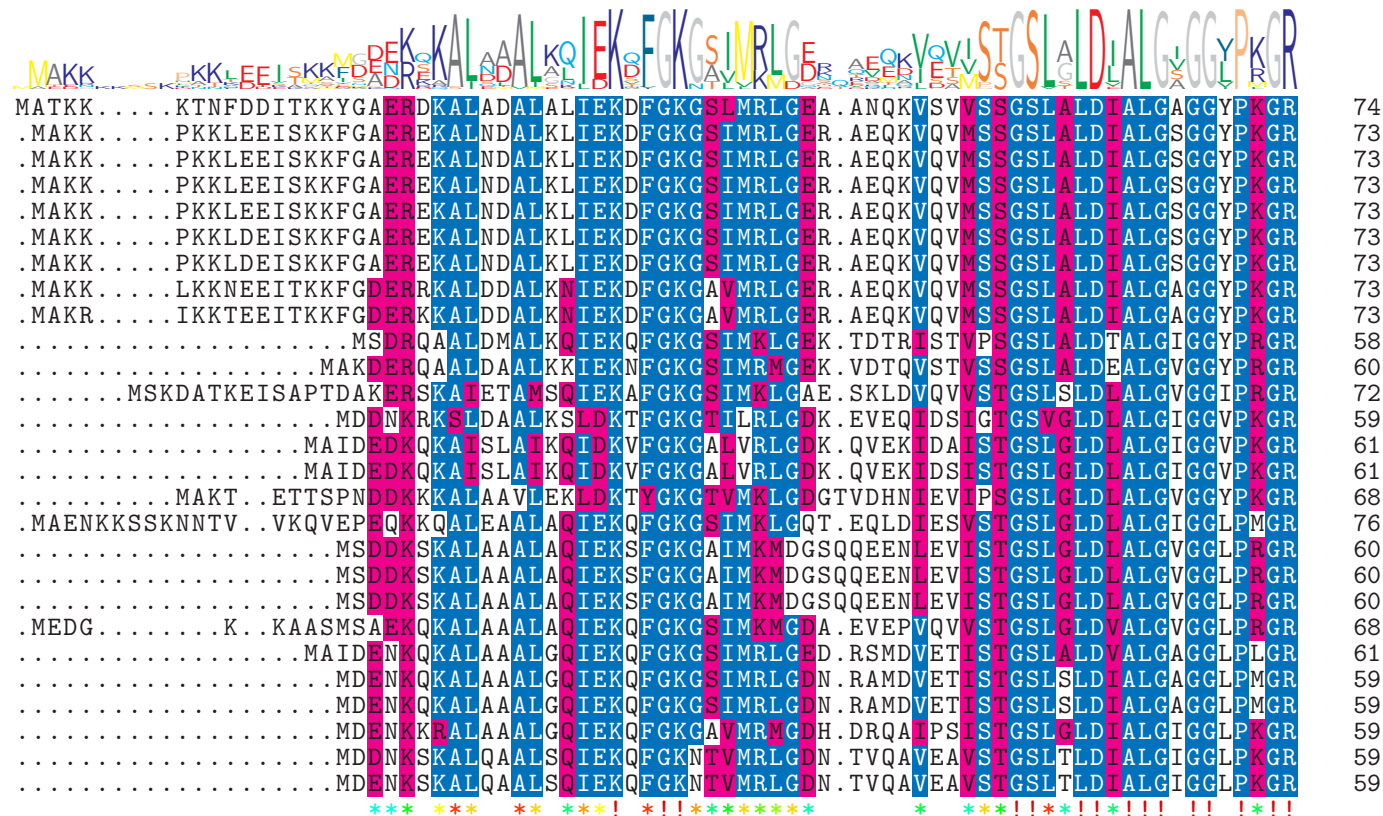


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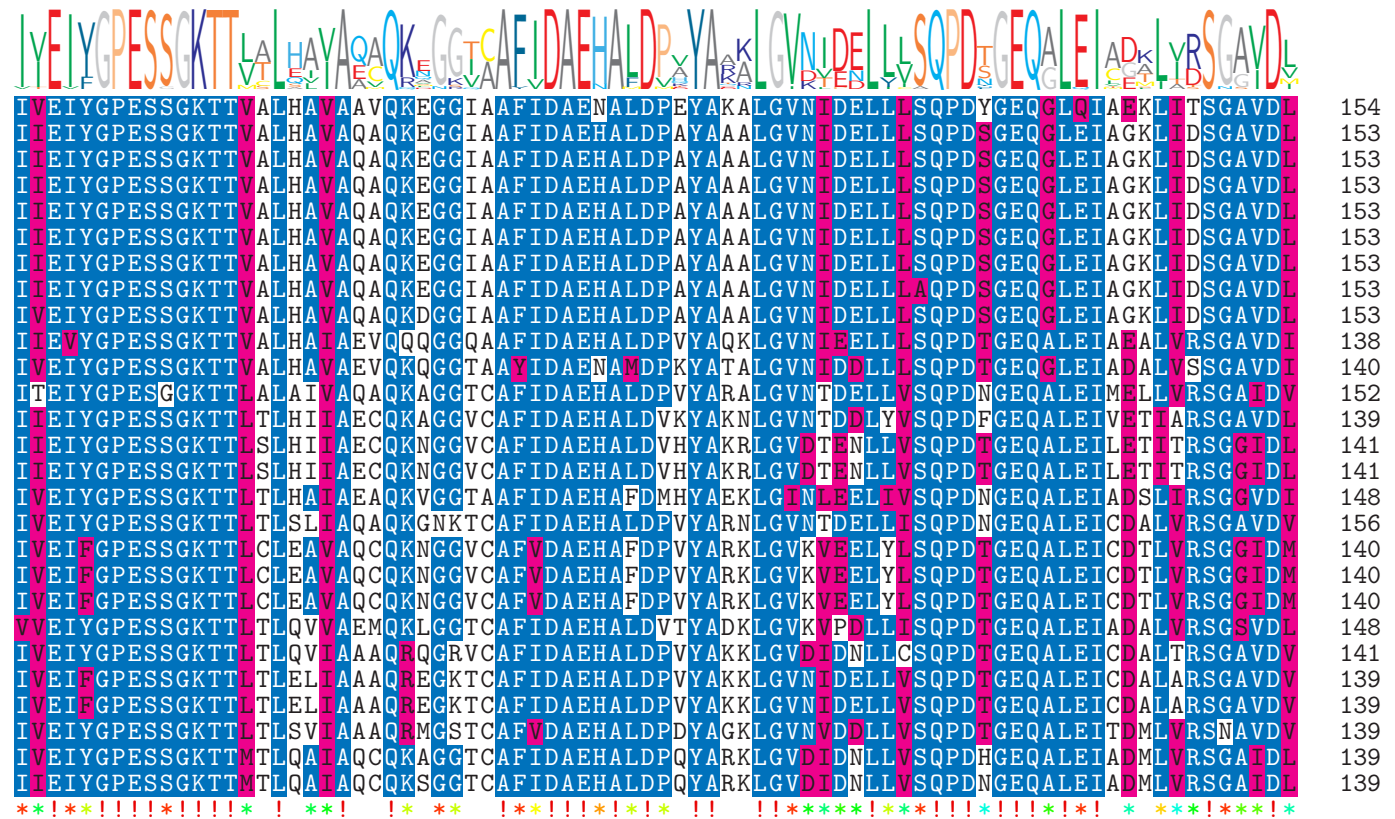
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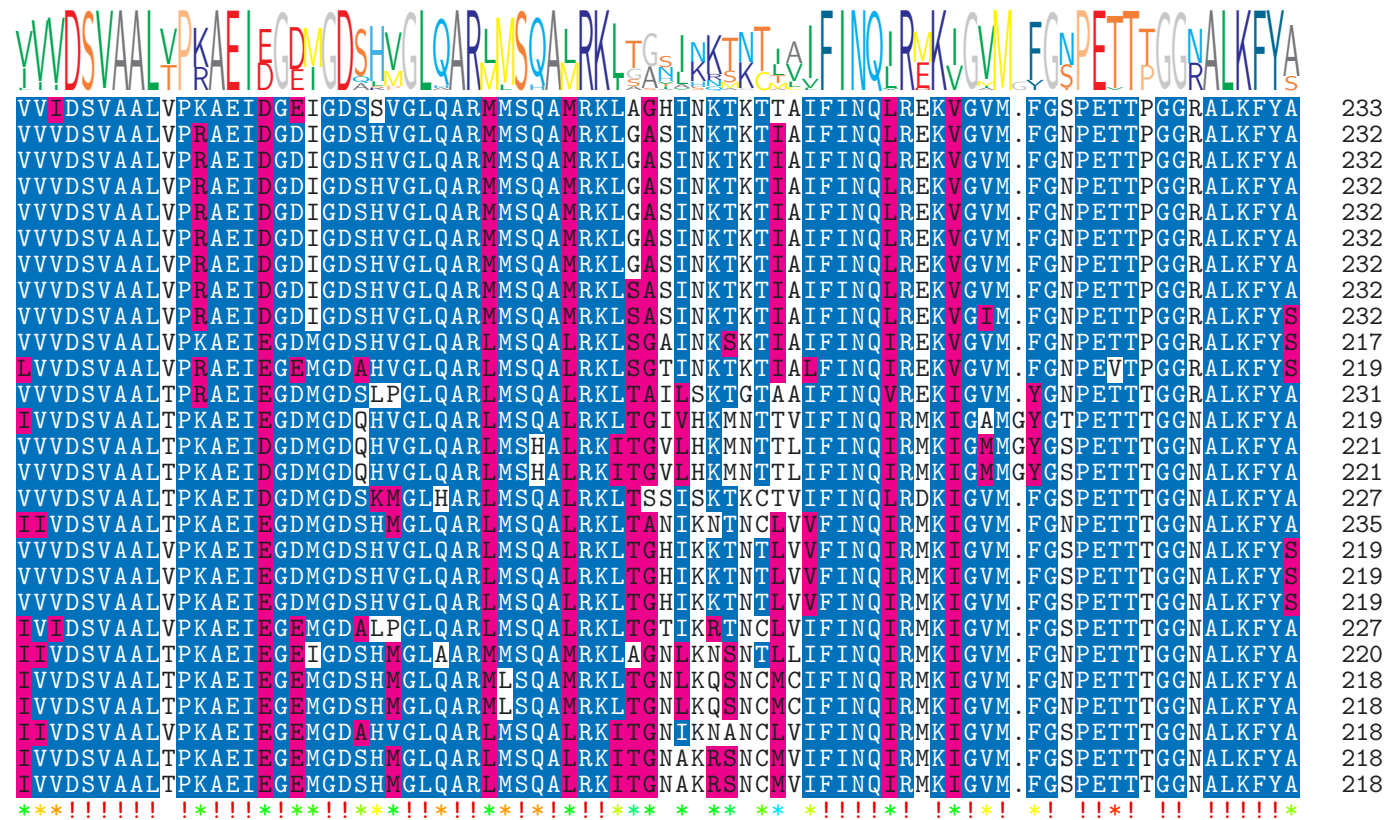
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consensus

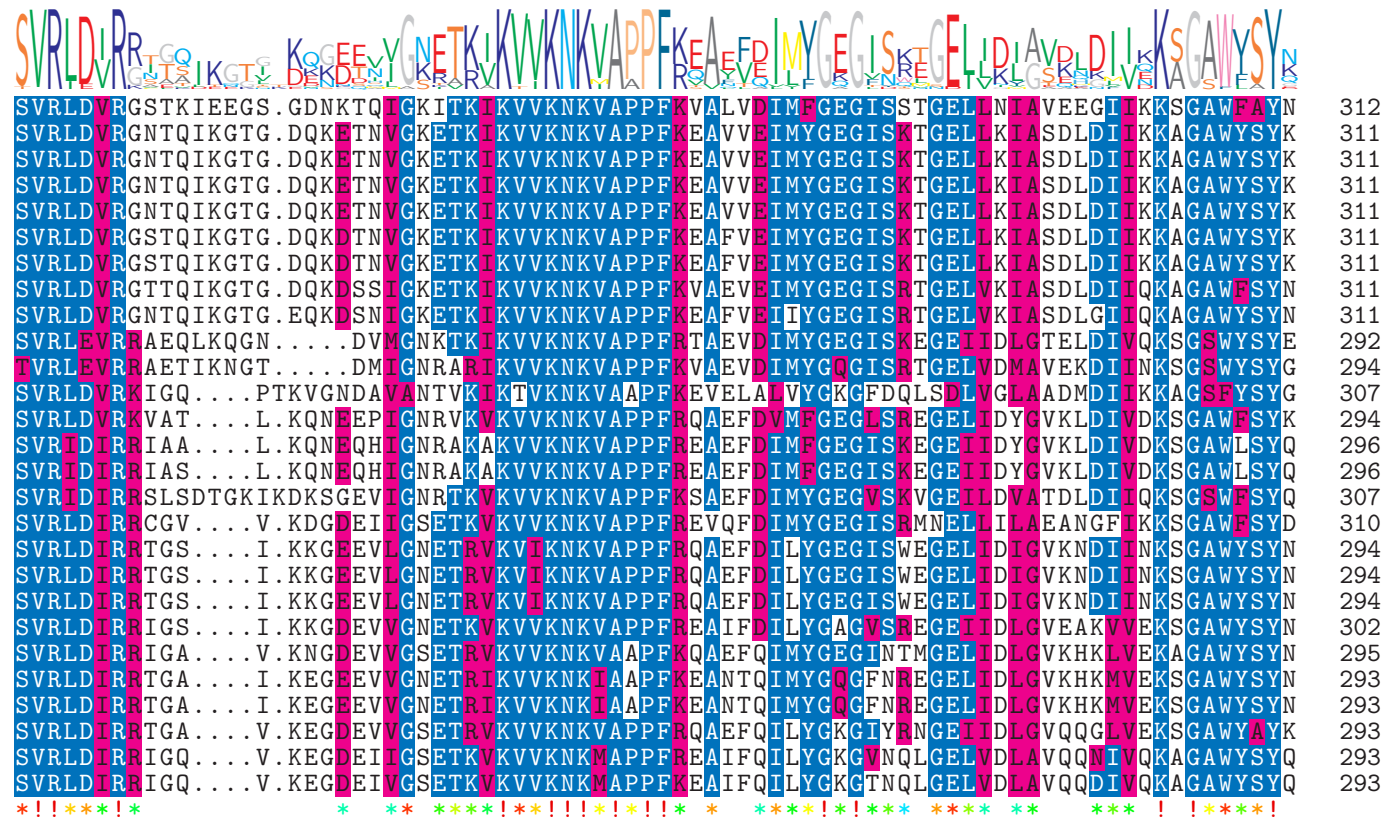
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consensus

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| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA                        | EKAKNYLKEHQDV         | FEIDHKVRAAHG                                 | LDDSEVAETEEETTA                                 | .SKTKAKAKKEEKAVETE             | EEIELELED.... | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS                        | ENAKKYLAEHPEIF        | DEIDKQVRSKFGL                                | IDGEEVSEQDTENKK                                 | .DE....PKKEEA..VNEEVPLDLGDELEI |               | 384 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS                        | ENAKKYLAEHPEIF        | DEIDKQVRSKFGL                                | IDGEEVSEQDTENKK                                 | .DE....PKKEEA..VNEEVPLDLGDELEI |               | 384 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS                        | ENAKKYLAEHPEIF        | DEIDKQVRSKFGL                                | IDGEEVSEQDTENKK                                 | .DE....PKKEEA..VNEEVPLDLGDELEI |               | 384 |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGS                        | ENAKKYLAEHPEIF        | DEIDKQVRSKFGL                                | IDGEEVSEQDTENKK                                 | .DE....PKKEEA..VNEEVPLDLGDELEI |               | 384 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS                        | ENAKKYLADNPEIF        | DEIDHQVRVQFGL                                | IDGEEIAES....KK                                 | .DE....AAQVDS..VNEEVTLDLGDELEI |               | 380 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS                        | ENAKKYLADNPEVFAE      | IDHQVRVQFGL                                  | IDGEEAAES....KK                                 | .DE....VAQVDS..VNEEVTLDLGDELEI |               | 380 |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS                        | ENAKRYLADHPQLF        | DEIDRKVRVKFGL                                | LEESEESAMAVASE                                  | .....E.....TDDLALDLNGIEI       |               | 376 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS                        | ENAKKFLADNPEIF        | DDIDHKVRVQYGL                                | IEEDNTEEKQSSKEK                                 | .....ETDEK..ADKNLVLELDDTIEL    |               | 381 |
| NTDB id 115 BSU 16940 NP 389576.2           | EE                              | RLGQGREN              | AKQFLKENKDIMLMIQE                            | QIREHYGLDNNGVVQQAEETQE                          | .EL.EFE.E.....                 |               | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQGS                        | ENAKNYLADHEDVE        | DEVRLKVRVQYGL                                | ISDVPEEDLPTTEDE                                 | ..QI.NILPDDST....EE.....       |               | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQGS                        | KEKTIAIYIAERPEMEQE    | IRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA             | .....                                           |                                |               | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DK                              | KLGGGREN              | SKAFLKENPEIADEITKAIQNSMG                     | TEGMISGS..EDDEGE....E.....                      |                                |               | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DK                              | KLGGGREN              | AKALLKEDKALADEITLKI                          | KESIGSNEEIMPL..PDEPLE....EM.....E.....          |                                |               | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DK                              | KLGGGREN              | AKALLKEDKALADEITLKI                          | KESIGSNEEIMPL..PDEPLE....EM.....E.....          |                                |               | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DT                              | KLGGGRD               | TVKELIKDNPELAEELEAKI                         | IREKLQAK.....                                   |                                |               | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GT                              | KIGQGK                | NNAVKWLKENPEIADKLEQE                         | IRNTLASNPNSVLK..ATASDSNDESDV.....EEFSEEEEL..... |                                |               | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQGK                        | DNVRVWLKENPEISDEIDAKI | RALNGVEMHITEG..TQD.....ETD.....GERPEE.....   |                                                 |                                |               | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQGK                        | DNVRVWLKENPEISDEIDAKI | RALNGVEMHITEG..TQD.....ETD.....GERPEE.....   |                                                 |                                |               | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQGK                        | DNVRVWLKENPEISDEIDAKI | RALNGVEMHITEG..TQD.....ETD.....GERPEE.....   |                                                 |                                |               | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GE                              | RIGQGRD               | NCREFLRENAELAREIENKVR                        | REHLGVTPMGAVT..LAAEEVEED.....                   |                                |               | 352 |
| NTDB id 275502 CSB69 RS08830 WP 004237869.1 | GEKIGQGS                        | KANATIYILKEHP         | EMADELDKKLRELLLNHSGEFST                      | ..AAESFNEESETE.....DAGNEEF.....                 |                                |               | 356 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GD                              | KIGQGS                | KANACKYILKENPEIAKTLDKKL                      | REMLLNPENMQLI..AETSSAADDVEF.....GAVPEEF.....    |                                |               | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GD                              | KIGQGS                | KANACKYILKENPEIAKTLDKKL                      | REMLLNPENMQLI..AETSSAADDVEF.....GAVPEEF.....    |                                |               | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQGS                        | KANAACKYLEENPEIGQE    | IEQQIRAKLLVTSANTKA..TPVAED..LADA.....DI..... |                                                 |                                |               | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GN                              | KIGQGS                | KNNVIRYLEENPQISTEIEAV                        | IREQLLTASDQTA..A.HDET..EEEP.....DLLES.....      |                                |               | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GN                              | KIGQGS                | KNNVIRYFEENNQIAEEIERN                        | IREQLLTGTNGAV..Q.I.ED..EEEP.....DLLLLS.....     |                                |               | 349 |
| consensus                                   | **!!!!***** ** * *** ***** ** * |                       |                                              |                                                 |                                |               | *   |

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| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .... | 349 |

consensus

 non conserved  
 similar  
 ≥ 50% conserved