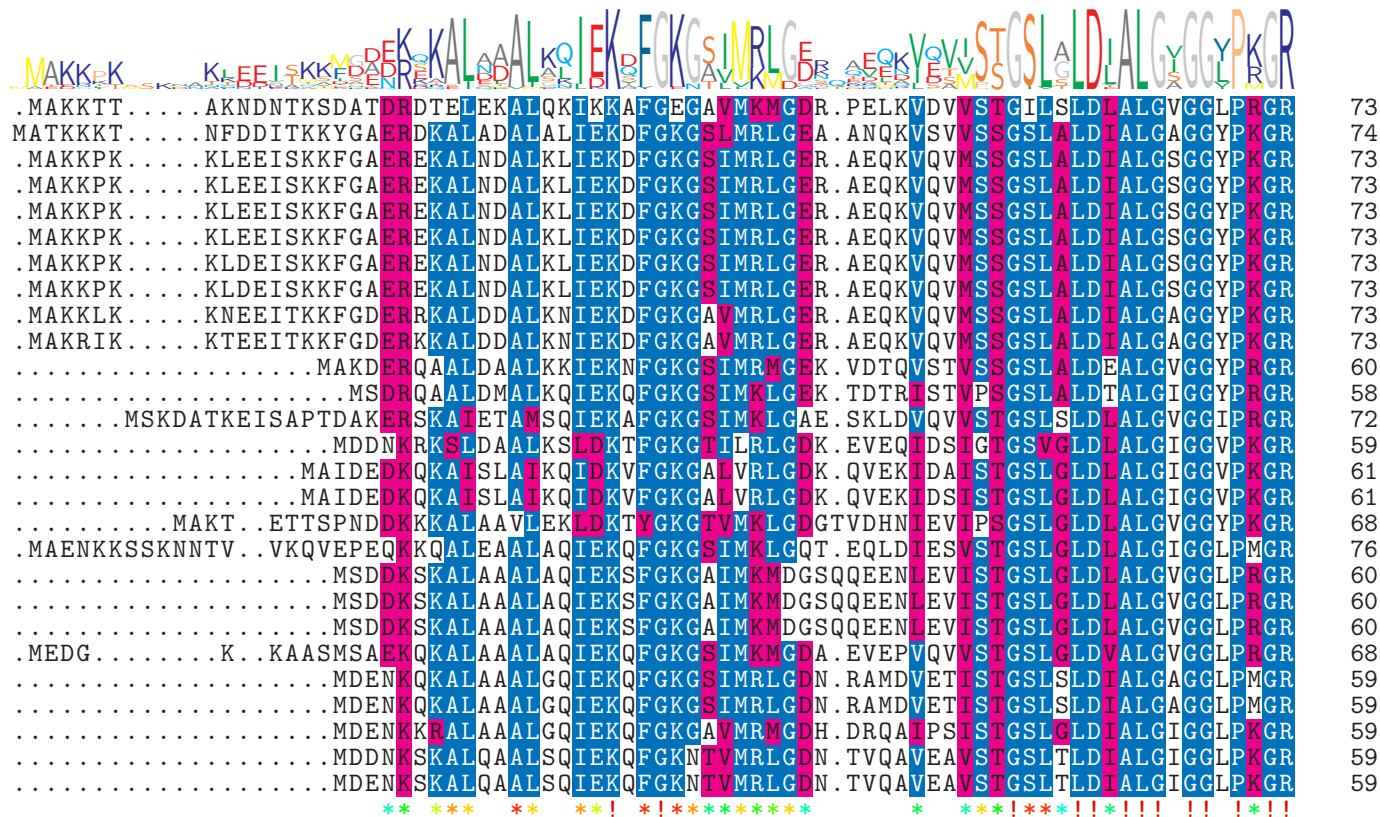


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consensus

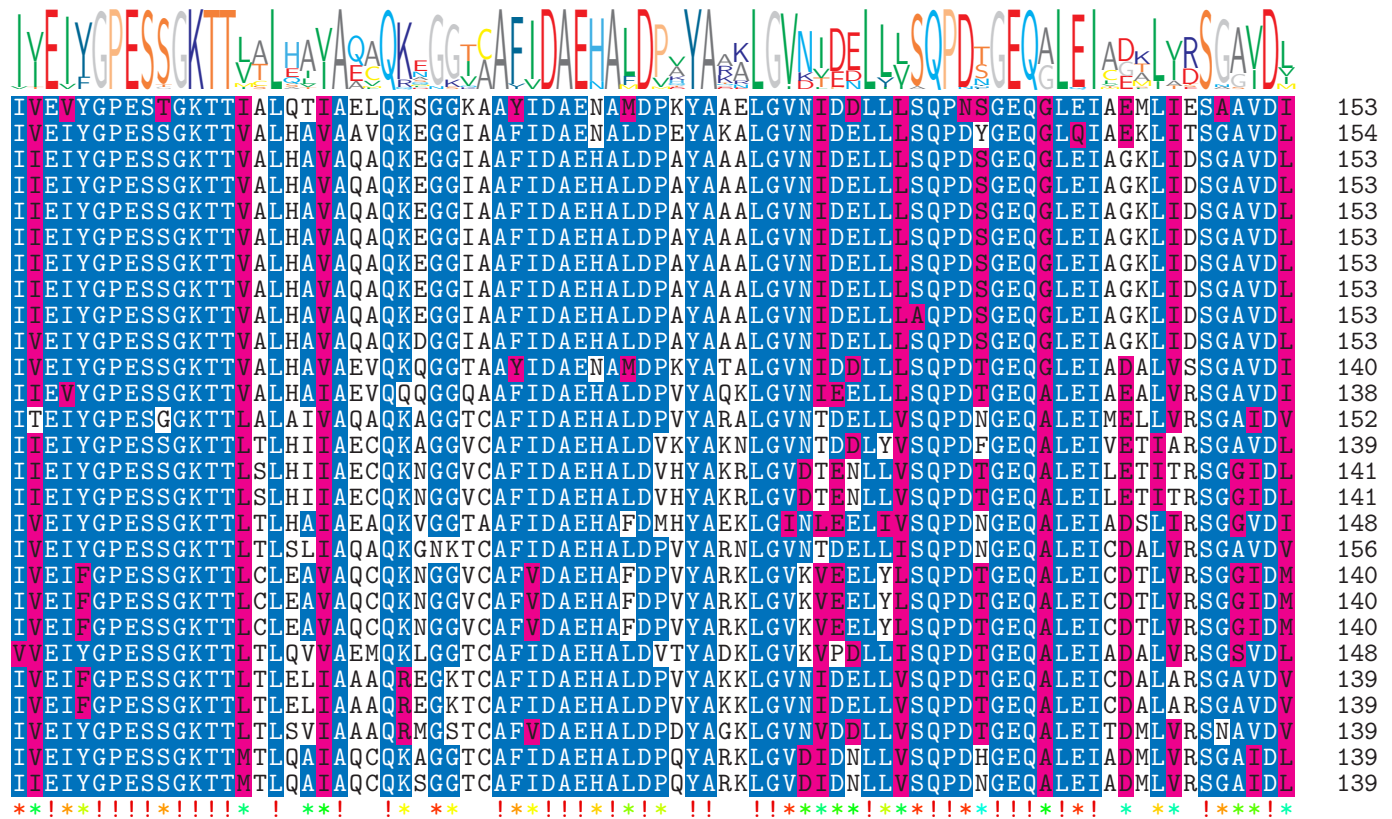
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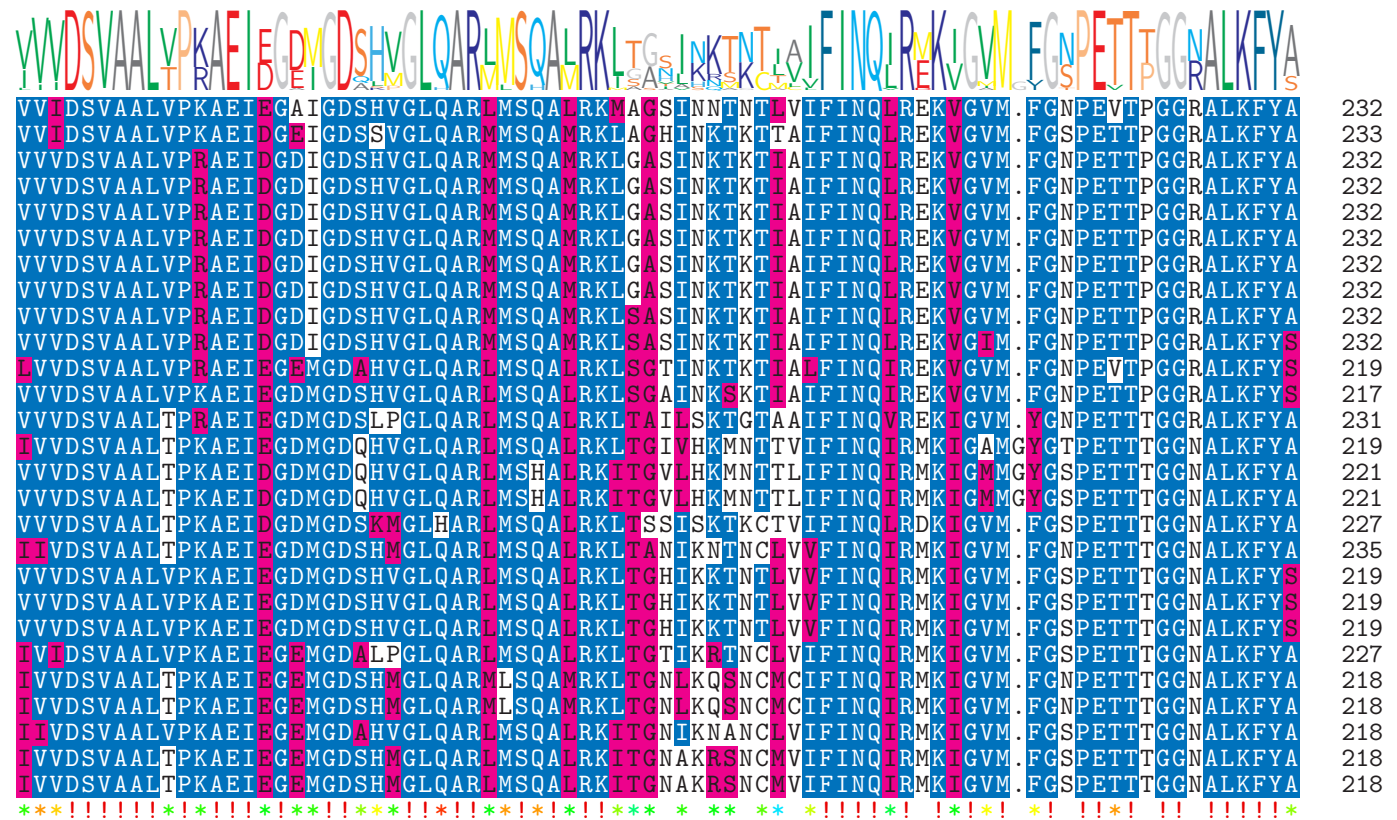
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consensus

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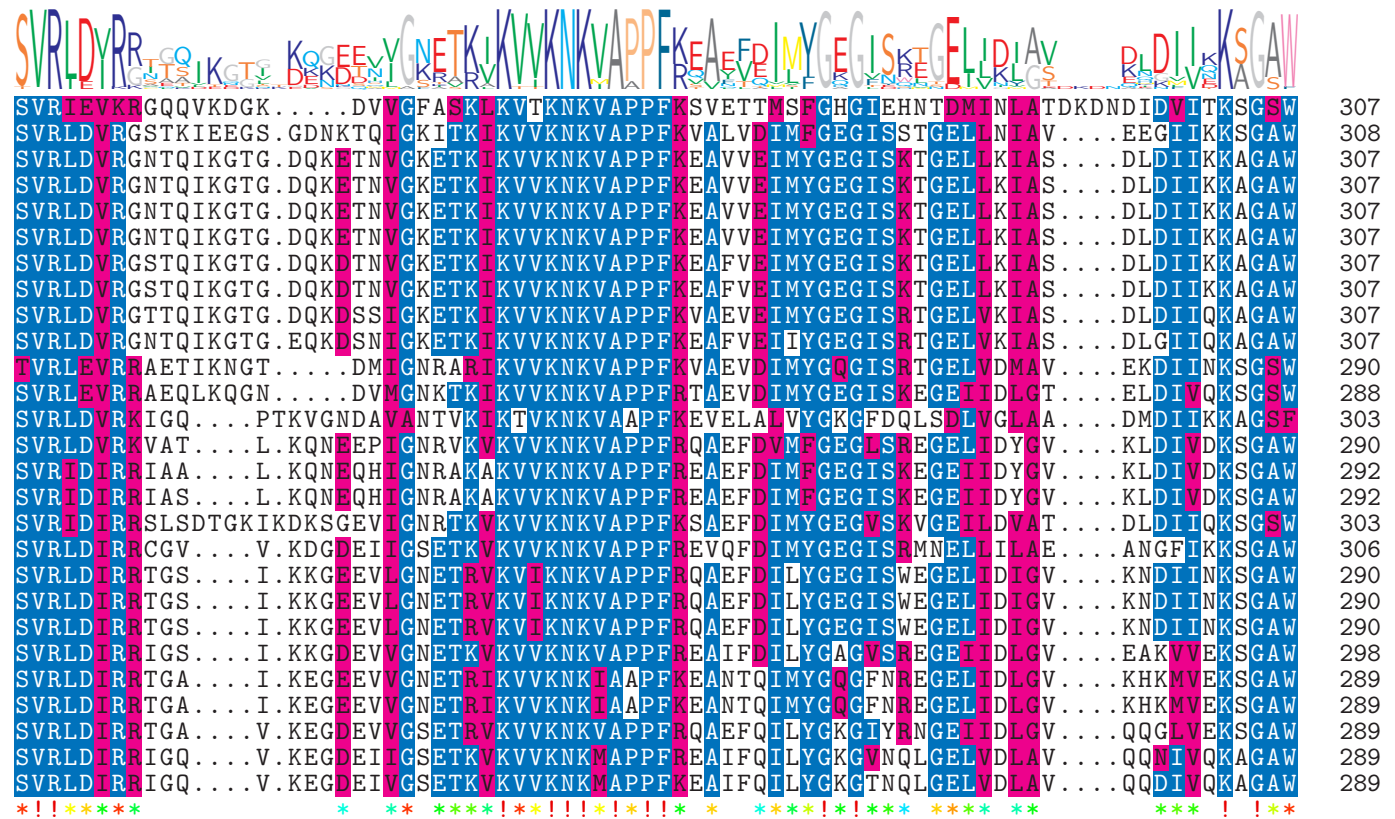
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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|                                             |                       |             |                     |                                           |                                             |        |
|---------------------------------------------|-----------------------|-------------|---------------------|-------------------------------------------|---------------------------------------------|--------|
| NTDB id 311453 D0638 RS14135 WP 003567844.1 | YNYGKERLIGQGLVNASHYLD | EHPEISK     | EIEEK               | IREQV                                     | APKKPEETDEKQDDKKDDQASADKKTEKTTTTDTEKKADKKDD | 387    |
| NTDB id 600 KW2 RS01765 WP 011675413.1      | FAYNDEKIGQGA          | EKA         | KNYLKEHQDV          | FDEIDHKVRAAHGL                            | LLDDSEVAETEEETTASKTAKAKKEEKAVETEEIELE.LED   | 387    |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | YSYKDEKIGQGS          | ENAKKYLA    | EHPEIF              | DEIDKQVRSKFGL                             | LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD   | 380    |
| NTDB id 228 SPD RS09265 WP 001085462.1      | YSYKDEKIGQGS          | ENAKKYLA    | EHPEIF              | DEIDKQVRSKFGL                             | LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD   | 380    |
| NTDB id 194 SPR RS08825 WP 001085462.1      | YSYKDEKIGQGS          | ENAKKYLA    | EHPEIF              | DEIDKQVRSKFGL                             | LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD   | 380    |
| NTDB id 159 SP RS09750 WP 001085462.1       | YSYKDEKIGQGS          | ENAKKYLA    | EHPEIF              | DEIDKQVRSKFGL                             | LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLD.LGD   | 380    |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | YSYKDEKIGQGS          | ENAKKYLA    | DNPEIF              | DEIDHQVRVQFGL                             | LIDGEEIAES...KKDE...AAQVDS..VNEEVTLD.LGD    | 376    |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | YSYKDEKIGQGS          | ENAKKYLA    | DNPEVFAE            | IDHQVRVQFGL                               | LIDGEEAAES...KKDE...VAQVDS..VNEEVTLD.LGD    | 376    |
| NTDB id 453 Spy49 1753c ACI62003.1          | FSYNGEKIGQGS          | ENAKRYLA    | DHPQLF              | DEIDRKVRVKFGL                             | LEESEEEESAMAVASE.....E.....TDDLALD.LDN      | 372    |
| NTDB id 408 SMU RS09530 WP 002262392.1      | YSYNGEKIGQGS          | ENAKKFLA    | DNPEIF              | DDIDHKVRVQYGL                             | LIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLE.LDD    | 377    |
| NTDB id 625 LCA RS02525 WP 011374196.1      | YSYGSEIRIGQGR         | ENAKNYLA    | DHEDVE              | DEVRLKVR                                  | AAYGISDVPEEDLPTTEDE.QI.NILPDDST....EE.....  | 355    |
| NTDB id 115 BSU 16940 NP 389576.2           | YSYEEERLIGQGR         | ENAKQFL     | KENKDIMLMIQE        | QIREHYGL                                  | LDNNGVVQQAEETQEEL.EFE.E.....                | 348    |
| NTDB id 1313 DR RS12030 WP 010888966.1      | YSYGDERIGQGK          | EKTIA       | YIAERP              | MEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA..... | 363                                         |        |
| NTDB id 1245 Cj1673c YP 002345041.1         | FSYKDKKILGQGR         | ENSKAFL     | KENPEIA             | DEITKAIQNSMGIEGMI.....SGSEDDE..GEE.....   | 343                                         |        |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | LSYQDKKILGQGR         | ENAKALLK    | EDKALADEITLKIKESIGS | NEEI.....MPLPDEP..LEEME.....              | 347                                         |        |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | LSYQDKKILGQGR         | ENAKALLK    | EDKALADEITLKIKESIGS | NEEI.....MPLPDEP..LEEME.....              | 347                                         |        |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | FSYQDTKLIGQGR         | DTV         | KELIKDNPELA         | EELAKIREKLQAK.....                        | 343                                         |        |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | FSYDGTKIGQGN          | NAVVKWL     | KENPEIA             | DKLEQEI                                   | RNTLASNPNS....VLKATASDSNDES                 | 372    |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | YSYNGAKIGQKDN         | VRVWL       | KENPEIS             | DEIDAKIRALNGVEMHI.....TEGT.....QDET       | 348                                         |        |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | YSYNGAKIGQKDN         | VRVWL       | KENPEIS             | DEIDAKIRALNGVEMHI.....TEGT.....QDET       | 348                                         |        |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | YSYNGAKIGQKDN         | VRVWL       | KENPEIS             | DEIDAKIRALNGVEMHI.....TEGT.....QDET       | 348                                         |        |
| NTDB id 1427 RS RS02760 WP 011000510.1      | YSYNGERIGQGR          | DNCREFL     | RENAELAREI          | ENKVREHLGVTPMG....AV.TLAEEVEED.....       | 352                                         |        |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | YSYNGDKIGQGN          | KANACKYL    | KENPEIA             | AKTLDKKLREMLLN                            | PENM....QLIAETSSAADDVEFGA..VPEEF.....       | 354    |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | YSYNGDKIGQGN          | KANACKYL    | KENPEIA             | AKTLDKKLREMLLN                            | PENM....QLIAETSSAADDVEFGA..VPEEF.....       | 354    |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | YAYKGSKIGQGN          | KANA        | AKYLEENPEIGQ        | EIEQQIRAKLLVTSAN....TKATPVAEDLADADI.....  | 347                                         |        |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | YSYQGNKIGQGN          | KNNVIRY     | LEENPQISTEIE        | AVIREQLLTKASD....QTAA.HDETEEEP            | 349                                         |        |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | YSYQGNKIGQGN          | KNNVIRY     | FEENNQIAEEI         | ERNIREQLLTTGTN....GAVQ.I.EDEEEP           | 349                                         |        |
| consensus                                   | ***!                  | ***!!!***** | *** *               | ***                                       | *****                                       | *** ** |

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|                                             |            |     |
|---------------------------------------------|------------|-----|
| NTDB id 311453 D0638 RS14135 WP 003567844.1 | PASFGVDRLV | 397 |
| NTDB id 600 KW2 RS01765 WP 011675413.1      | .....      | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | ELEIEIEE.. | 388 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | ELEIEIEE.. | 388 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | ELEIEIEE.. | 388 |
| NTDB id 159 SP RS09750 WP 001085462.1       | ELEIEIEE.. | 388 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | ELEIEIEE.. | 384 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | ELEIEIEE.. | 384 |
| NTDB id 453 Spy49 1753c ACI62003.1          | GIEIED.... | 378 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | TIELED.... | 383 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | .....      | 355 |
| NTDB id 115 BSU 16940 NP 389576.2           | .....      | 348 |
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| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .....      | 349 |
| consensus                                   |            |     |

-  non conserved
-  similar
-  ≥ 50% conserved