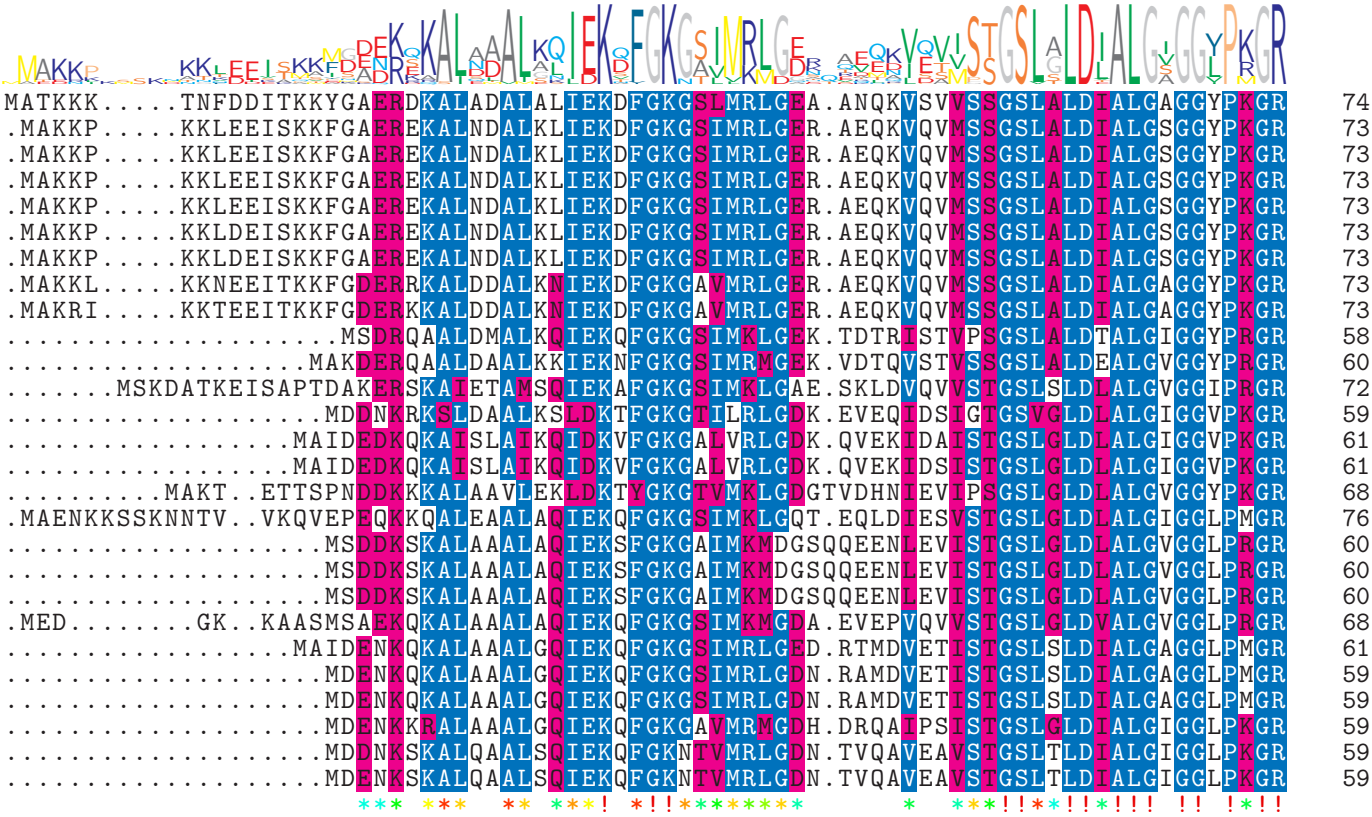


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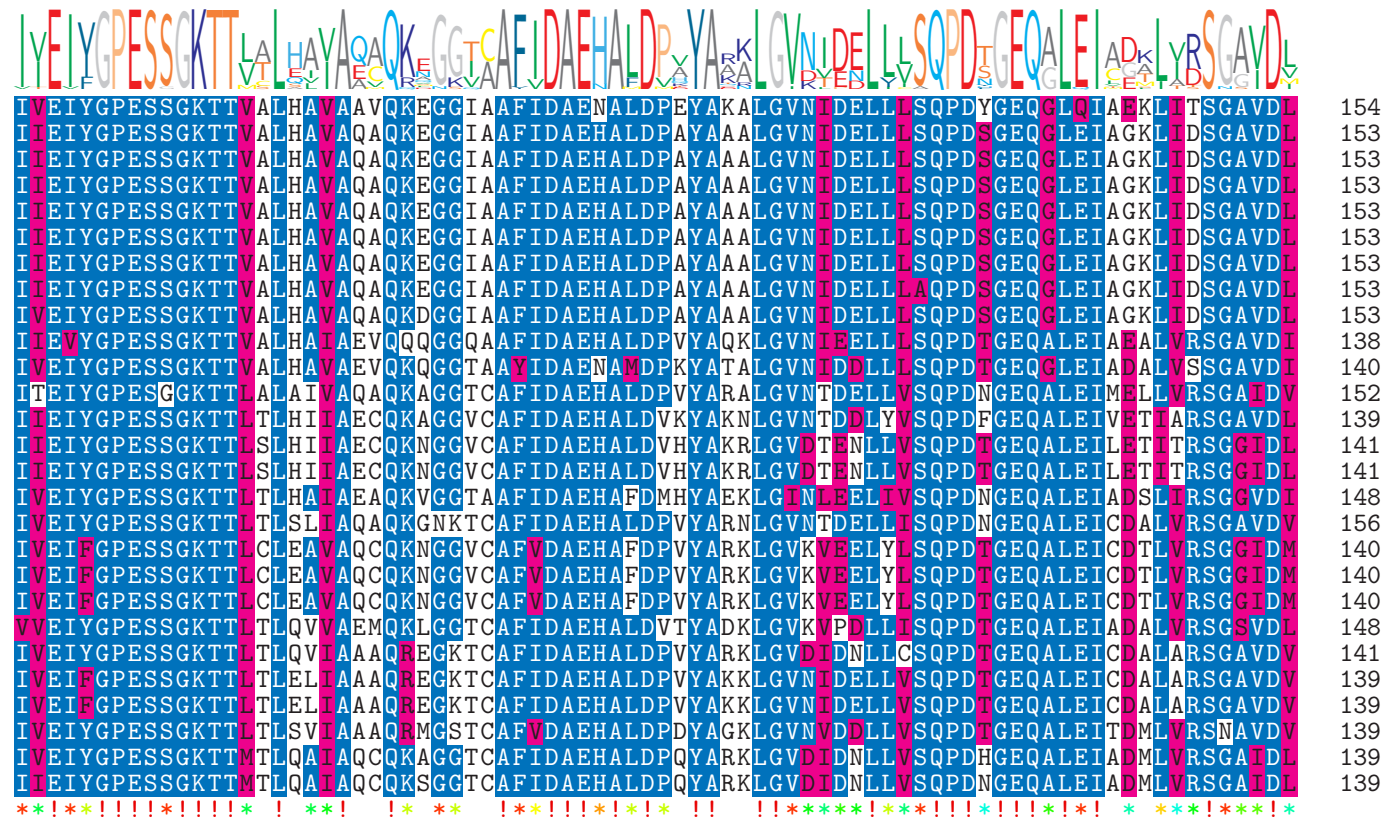
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consensus



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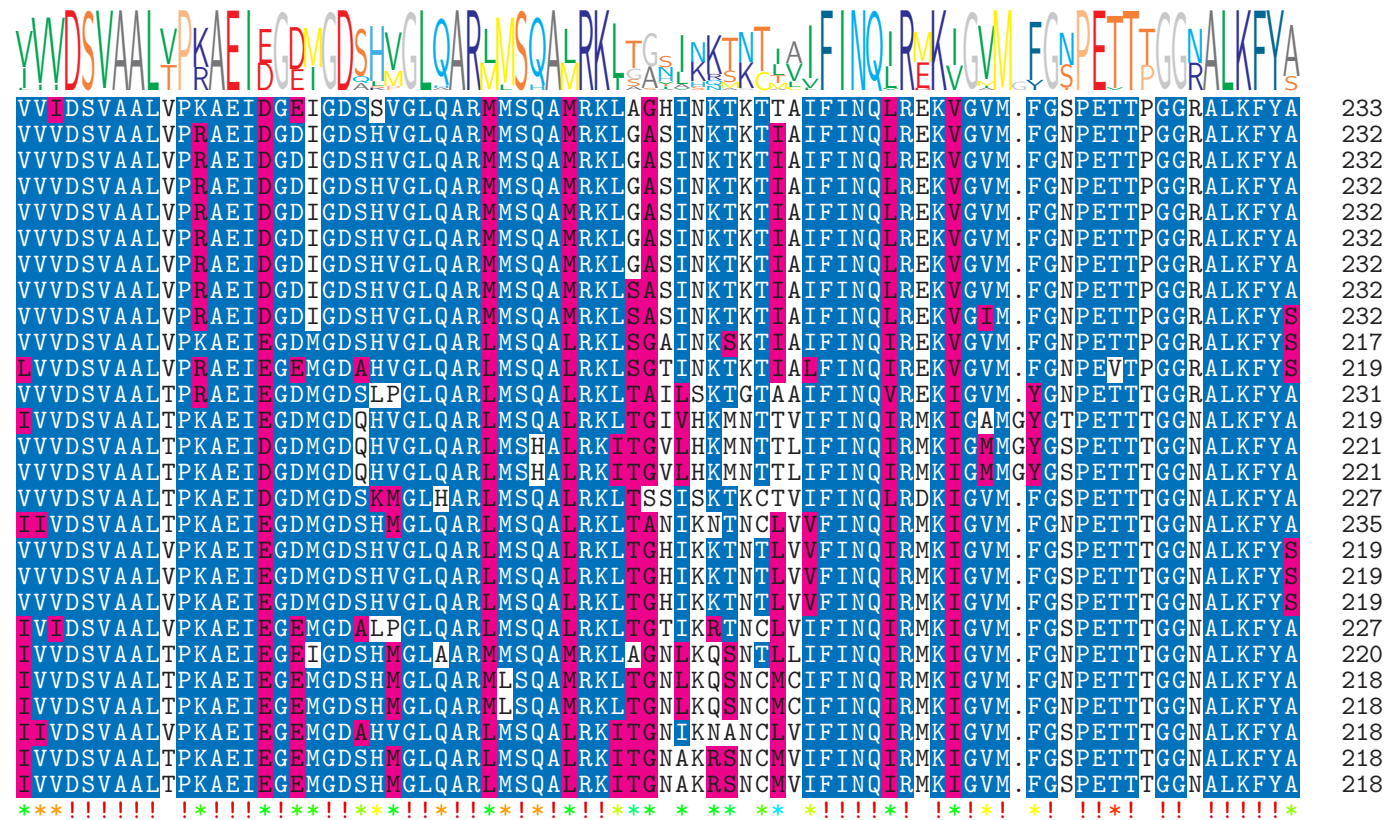
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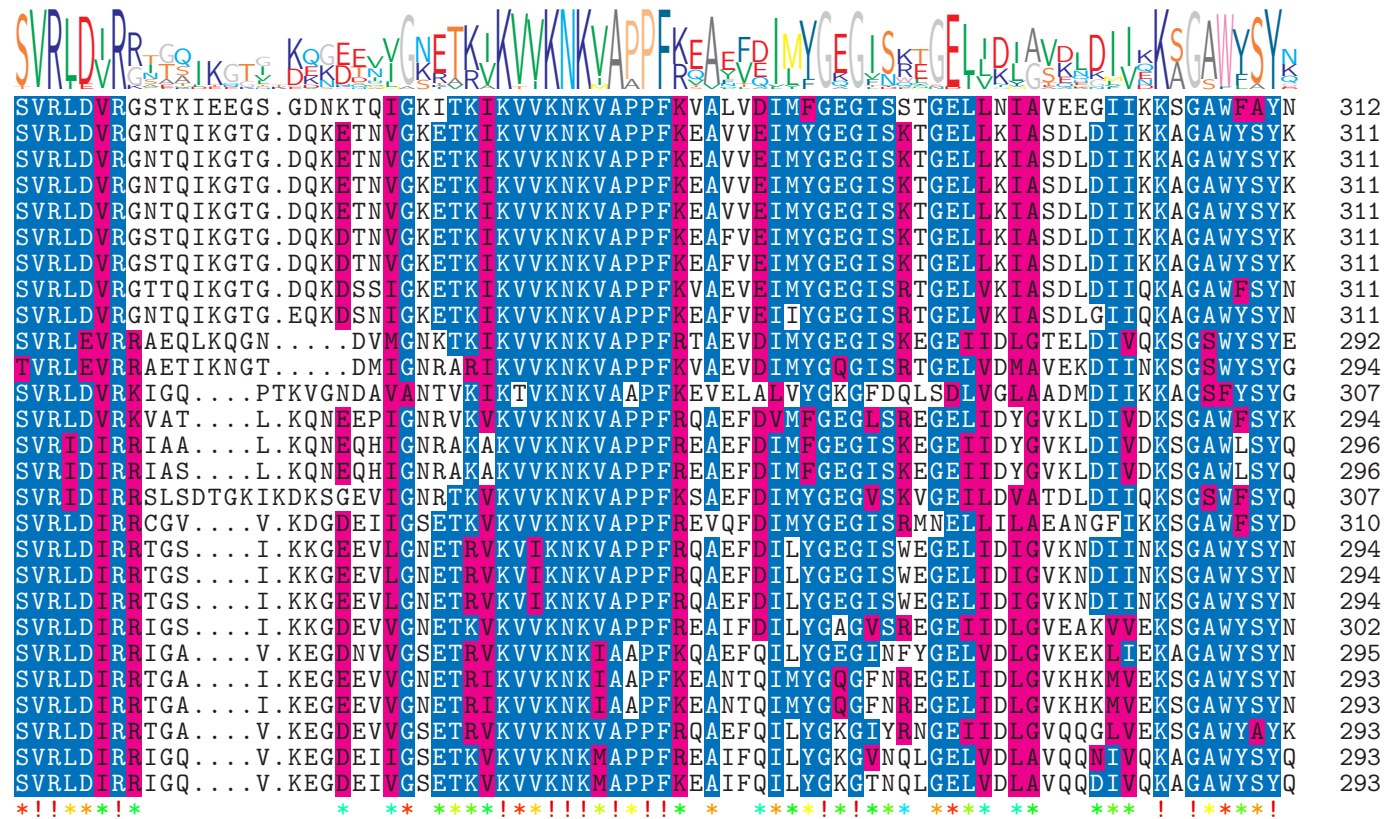
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consensus

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|                                             |          |                |                |                |                |                 |       |     |
|---------------------------------------------|----------|----------------|----------------|----------------|----------------|-----------------|-------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA | EKAKNYLKEHQDV  | DEIDHKVRAAHG   | LDDSEVAETEEETT | ASKTKAKAKKEEK  | AVETEEIELELED   | ....  | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKFGL  | IDGEEVSEQDTEN  | KKDE....PKKEEA | .VNEEVPLDLGDE   | LEIE  | 385 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKFGL  | IDGEEVSEQDTEN  | KKDE....PKKEEA | .VNEEVPLDLGDE   | LEIE  | 385 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKFGL  | IDGEEVSEQDTEN  | KKDE....PKKEEA | .VNEEVPLDLGDE   | LEIE  | 385 |
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| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS | ENAKKYLADNPEV  | FAEIDHQVRVQFGL | IDGEEAAE....SK | KDE....VAQVDS  | .VNEEVTLDLGDE   | LEIE  | 381 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS | ENAKKYLADNPEIF | DEIDHQVRVQFGL  | IDGEEIAE....SK | KDE....AAQVDS  | .VNEEVTLDLGDE   | LEIE  | 381 |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS | ENAKRYLADHPQLF | DEIDRKVRVKFGL  | LEESEEEESAMAV  | ASE.....E..... | TDDLALDLDN      | GIEIE | 377 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS | ENAKKFLADNPEIF | DDIDHKVRVQYGL  | IEEDNTEEEKQSS  | KEK.....ETDEK  | .ADKNLVLELDD    | TIELE | 382 |
| NTDB id 115 BSU 16940 NP 389576.2           | EE       | RLGQGREN       | AKQFLKENKDIM   | LMIQEQIREHYGL  | DNNGVVQQAEET   | QEEL.EFE.E..... |       | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQGS | ENAKNYLADHED   | VEDEVRLKVR     | AAYGISDVPEED   | LPTTEDE.QI.NIL | PDDST.....EE    |       | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQGS | KEKTIA         | YIAERPEMEQE    | IRDRVMAAIRAG   | NAGEAPALAPAA   | .PEAAEA.....    |       | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DK       | KLGGGREN       | SKAFLKENPEI    | ADEITKAIQNSM   | GIEGMISGSE     | DE..GE.E.....   |       | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DK       | KLGGGREN       | AKALLKEDKAL    | ADEITLKIKES    | IGSNEEIMPL     | PDEP..LE.EME    |       | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DK       | KLGGGREN       | AKALLKEDKAL    | ADEITLKIKES    | IGSNEEIMPL     | PDEP..LE.EME    |       | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DT       | KLGGGRD        | TVKELIKDNPE    | LAELEAKIREK    | LQAK.....      |                 |       | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GT       | KIGQGK         | NNAVKWLKENPE   | IADEIKLEQEI    | RNTLASNPNS     | VLKATAS..D...S  | NDES  | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQGK | DNVRVWLKENPE   | ISDEIDAKIRAL   | NGVEMHITEGT    | QDE..TD.....   | GERPEE.....     |       | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQGK | DNVRVWLKENPE   | ISDEIDAKIRAL   | NGVEMHITEGT    | QDE..TD.....   | GERPEE.....     |       | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQGK | DNVRVWLKENPE   | ISDEIDAKIRAL   | NGVEMHITEGT    | QDE..TD.....   | GERPEE.....     |       | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GE       | RIGQGRD        | NCREFLRENAEL   | AREIENKVR      | REHLGVTPM      | GA              | VT    | 352 |
| NTDB id 328738 EHE18 RS05865 WP 002914769.1 | GD       | KIGQGGKAN      | AITWLKENPAA    | AKEIEKKVRELL   | LNNQDAKPD..FV  | .VD.GNDAEETE    | QDF   | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GD       | KIGQGGKAN      | ACKYLLKENPE    | IAKTLDDKKL     | REMLLN         | PENMQLI..AE     |       | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GD       | KIGQGGKAN      | ACKYLLKENPE    | IAKTLDDKKL     | REMLLN         | PENMQLI..AE     |       | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQGG | KANA           | AKYLEENPEIG    | QIEEQIRAKLL    | VSANTKA..TP    | .VA.EDLAD       | ADI   | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GN       | KIGQGGK        | NNVIRYLEENP    | QISTEIEAV      | IREQLLT        | TKASDQTA..A     |       | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GN       | KIGQGGK        | NNVIRYFEEN     | NQIAEEIERN     | IREQLLT        | TGTNGAV..Q      |       | 349 |
| consensus                                   |          | ***!!!*****    | ***            | *****          | *****          | ***             | ***   |     |

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consensus

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 similar  
 ≥ 50% conserved