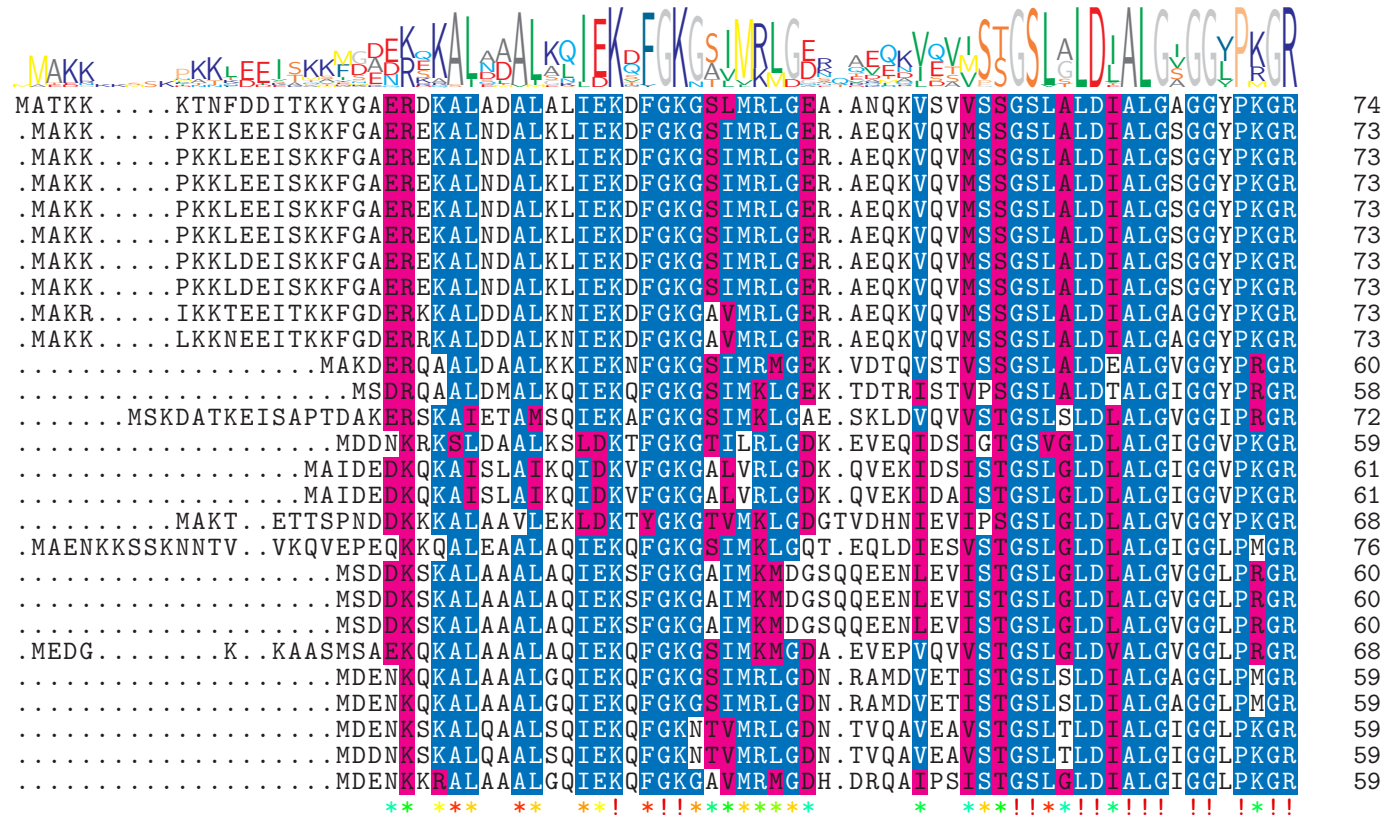


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consensus

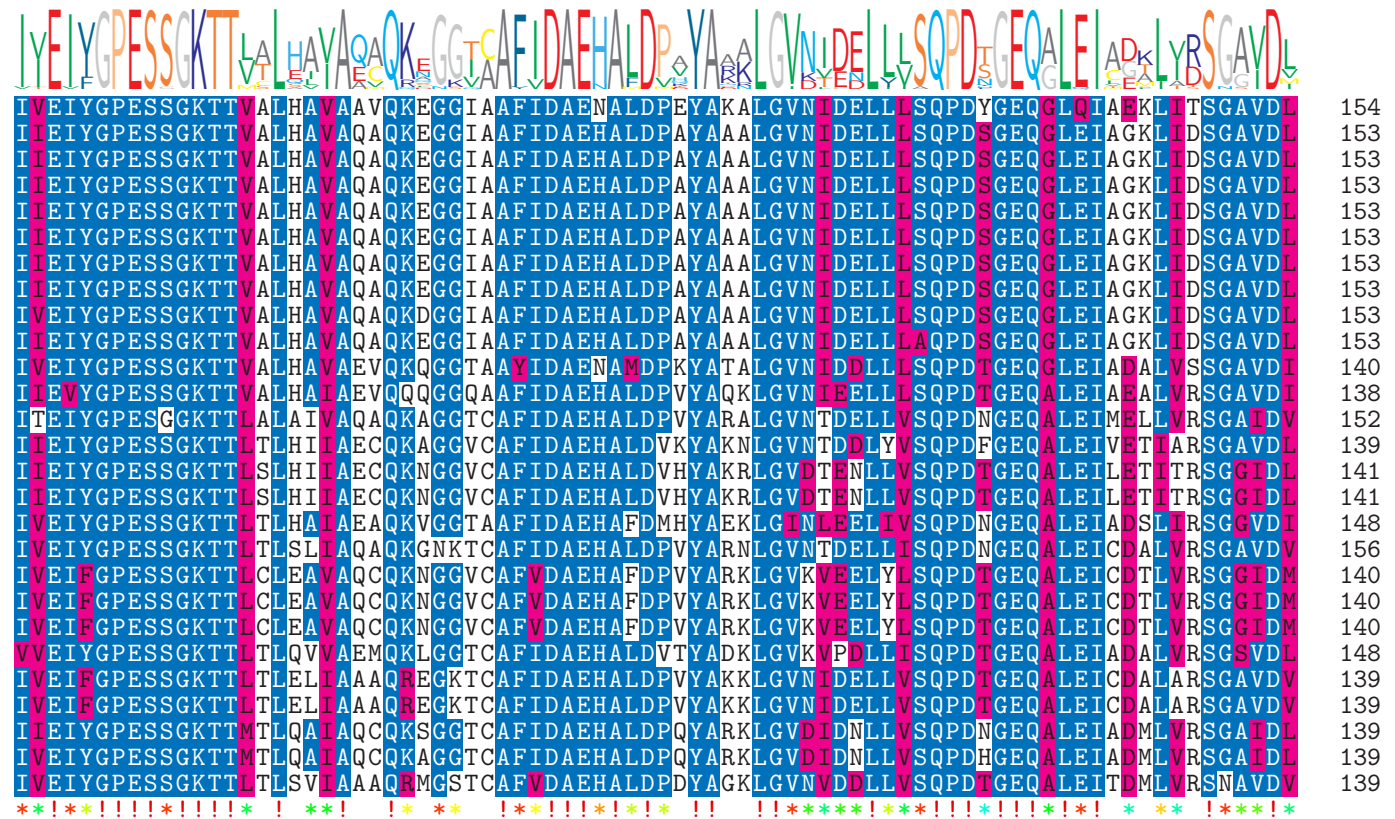
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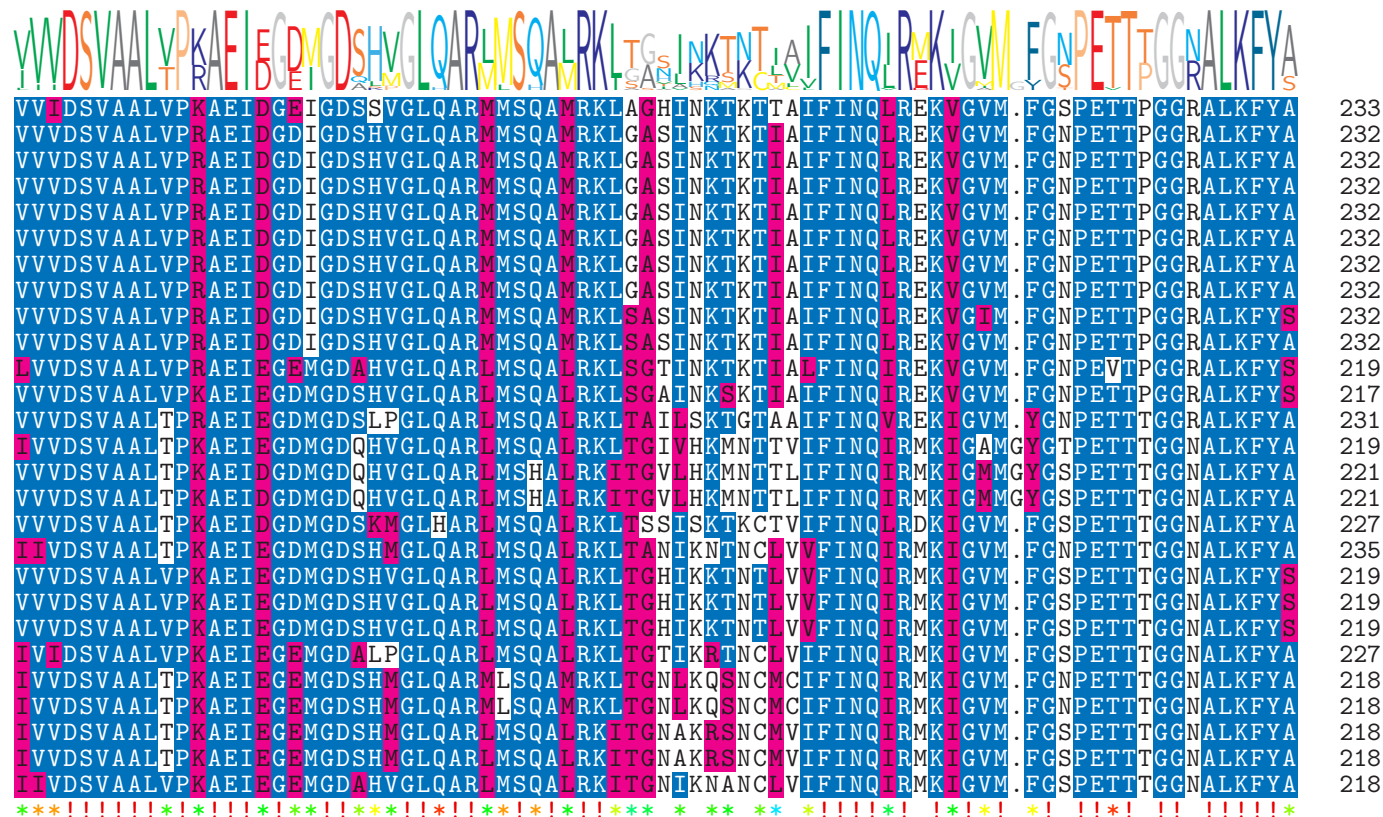
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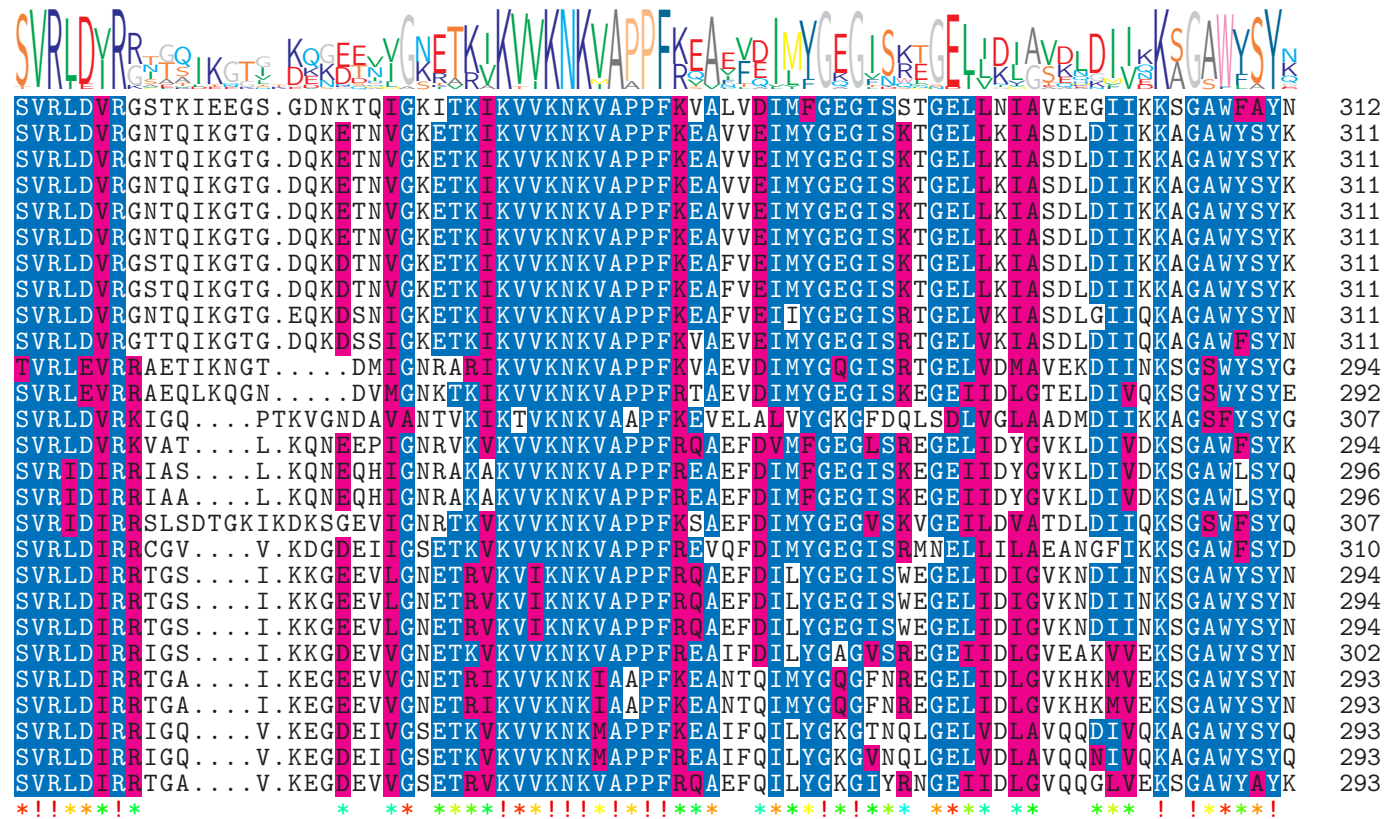
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consensus





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|                                             |          |                   |                      |                                        |                     |               |      |     |   |
|---------------------------------------------|----------|-------------------|----------------------|----------------------------------------|---------------------|---------------|------|-----|---|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA | EKAKNYLKEHQDV     | FDEIDHKVRAAHGL       | LDDSEVAETEEETT                         | ASKTKAKAKKKEEKAVETE | EIELELED      | .... | 387 |   |
| NTDB id 403022 GL183 RS01615 WP 001085463.1 | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL        | IDGEEVSEQDTENKKDEP                     | ...KKEEA..VNEE      | VTLDLGDELEIE  |      | 385 |   |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL        | IDGEEVSEQDTENKKDEP                     | ...KKEEA..VNEE      | VPPLDLGDELEIE |      | 385 |   |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL        | IDGEEVSEQDTENKKDEP                     | ...KKEEA..VNEE      | VPPLDLGDELEIE |      | 385 |   |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL        | IDGEEVSEQDTENKKDEP                     | ...KKEEA..VNEE      | VPPLDLGDELEIE |      | 385 |   |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL        | IDGEEVSEQDTENKKDEP                     | ...KKEEA..VNEE      | VPPLDLGDELEIE |      | 385 |   |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS | ENAKKYLAADNPEIF   | DEIDHQVRVQFGL        | IDGEEIAES...KKDEA...AQVDS..VNEE        | VTLDLGDELEIE        |               |      | 381 |   |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS | ENAKKYLAADNPEVFAE | IDHQVRVQFGL          | IDGEEAAES...KKDEV...AQVDS..VNEE        | VTLDLGDELEIE        |               |      | 381 |   |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS | ENAKKFLADNPEIFDD  | IDHKVRVQYGL          | IEEDNTEEEKQSSKEK.....ETDEK..ADKNL      | VLELDDTIELE         |               |      | 382 |   |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS | ENAKRYLADHPQLF    | DEIDRKVRVKFGL        | LEESEESAMAVASE.....E.....TD            | D LALDLNGIEIE       |               |      | 377 |   |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQGR | ENAKNYLADHEDVEDEV | RLKVR AAYGISD        | VPEEDLPTTEDE.QIN.....ILPDD             | STEE.               |               |      | 355 |   |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGQGR | ENAKQFLKENKDIMLMI | QEQIREHYGL           | DNNGVVQQAEETQEELE.....FE.E.....        |                     |               |      | 348 |   |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQG  | KEKTIAYIAERP      | EMEQEIRDRVMAA        | IRAGNAGEAPALAPAPAAPEAAE..A.....        |                     |               |      | 363 |   |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGQGR | ENSKAFLKENPEI     | ADEITKAIQNSMG        | IEGMI....SGSEDDE..GE..E.....           |                     |               |      | 343 |   |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGQGR | ENAKALLKEDKAL     | ADEITLKIKESIG        | SNEEI....MPLPDEP..LE..EM.....E.....    |                     |               |      | 347 |   |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGQGR | ENAKALLKEDKAL     | ADEITLKIKESIG        | SNEEI....MPLPDEP..LE..EM.....E.....    |                     |               |      | 347 |   |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGQGR | DTVKELIKDNPEL     | AEELEAKIREKLQAK..... |                                        |                     |               |      | 343 |   |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQG  | KNNAVKWLKENPEI    | ADKLEQEIRNTLAS       | NPNS....VLKATASDSND..ES.....D          | VEEFSEEEL...        |               |      | 372 |   |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWLKENPEI    | SDEIDAKIRALNG        | VEMHI....TEGTQDETD.....GERPEE....      |                     |               |      | 348 |   |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWLKENPEI    | SDEIDAKIRALNG        | VEMHI....TEGTQDETD.....GERPEE....      |                     |               |      | 348 |   |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQG  | KDNVRVWLKENPEI    | SDEIDAKIRALNG        | VEMHI....TEGTQDETD.....GERPEE....      |                     |               |      | 348 |   |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQGR | DNCREFLRENAEL     | AREIENKVREHLG        | VTPMG....AV.TLAEVEE..D.....            |                     |               |      | 352 |   |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQG  | KANACKYLLKENPEI   | AKTLDKKLREMLLN       | PENM....QLIAETSSAAD..DV.....E          | FGAVPEEF....        |               |      | 354 |   |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQG  | KANACKYLLKENPEI   | AKTLDKKLREMLLN       | PENM....QLIAETSSAAD..DV.....E          | FGAVPEEF....        |               |      | 354 |   |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQG  | KNNVIRYFEENNQIA   | EIEIERNIREQLLT       | TGTN....GAVQ.I.EDEE..EP.....D..LL      | LES....             |               |      | 349 |   |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQG  | KNNVIRYLEENPQI    | STEIEAVIREQLLT       | TKASD....QTAA.HDETEE..EP.....D..LL     | LES....             |               |      | 349 |   |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQG  | KANAACKYLLKENPEI  | IGQIEEQIRAKLL        | VTSAN....TKATPVAEDLA..DA.....D..I..... |                     |               |      | 347 |   |
| consensus                                   | ***!!!   | *****             | **                   | *                                      | ***                 | *****         | **   | *   | * |

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|                                             |     |     |
|---------------------------------------------|-----|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | ... | 387 |
| NTDB id 403022 GL183 RS01615 WP 001085463.1 | IEE | 388 |
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| NTDB id 228 SPD RS09265 WP 001085462.1      | IEE | 388 |
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consensus

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 similar  
 ≥ 50% conserved