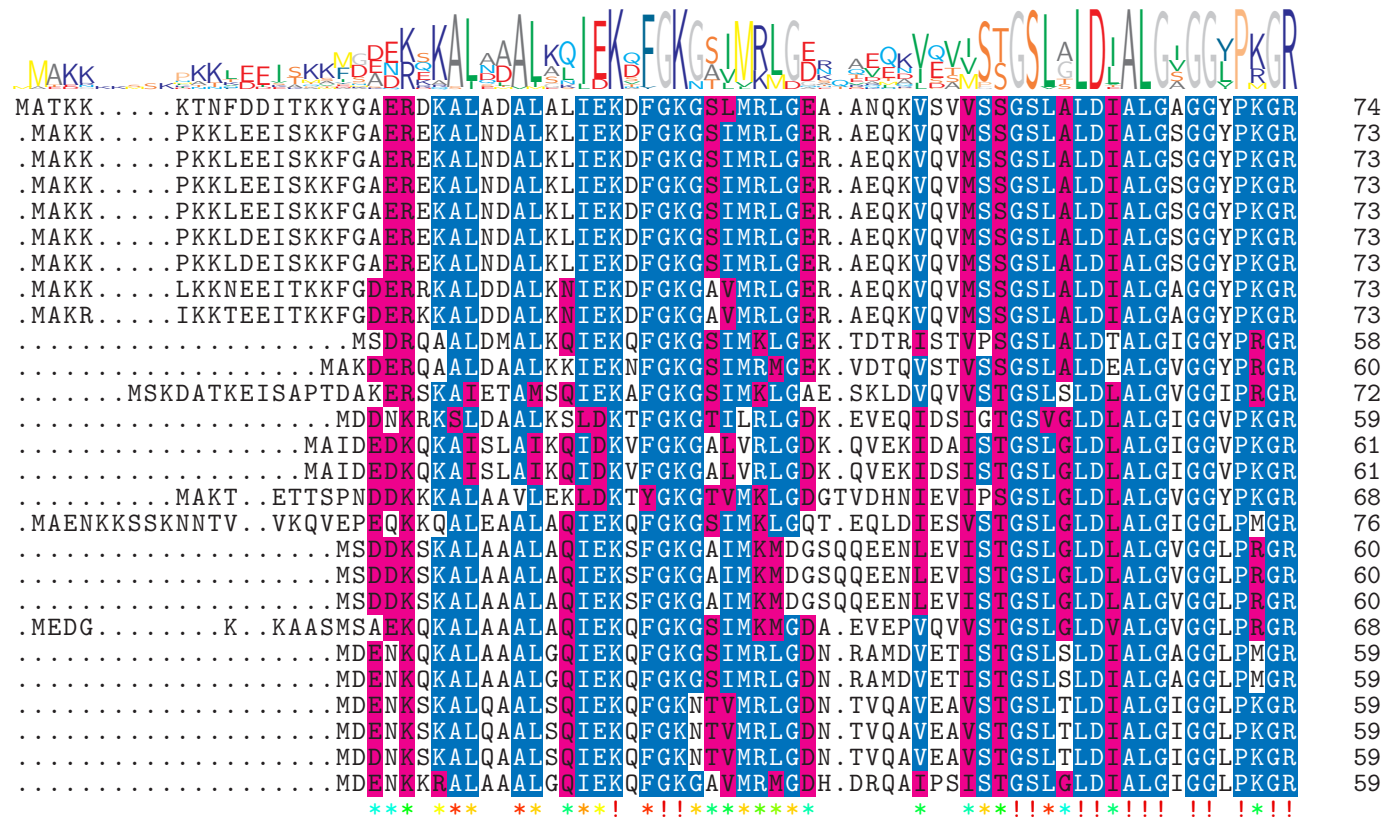


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consensus

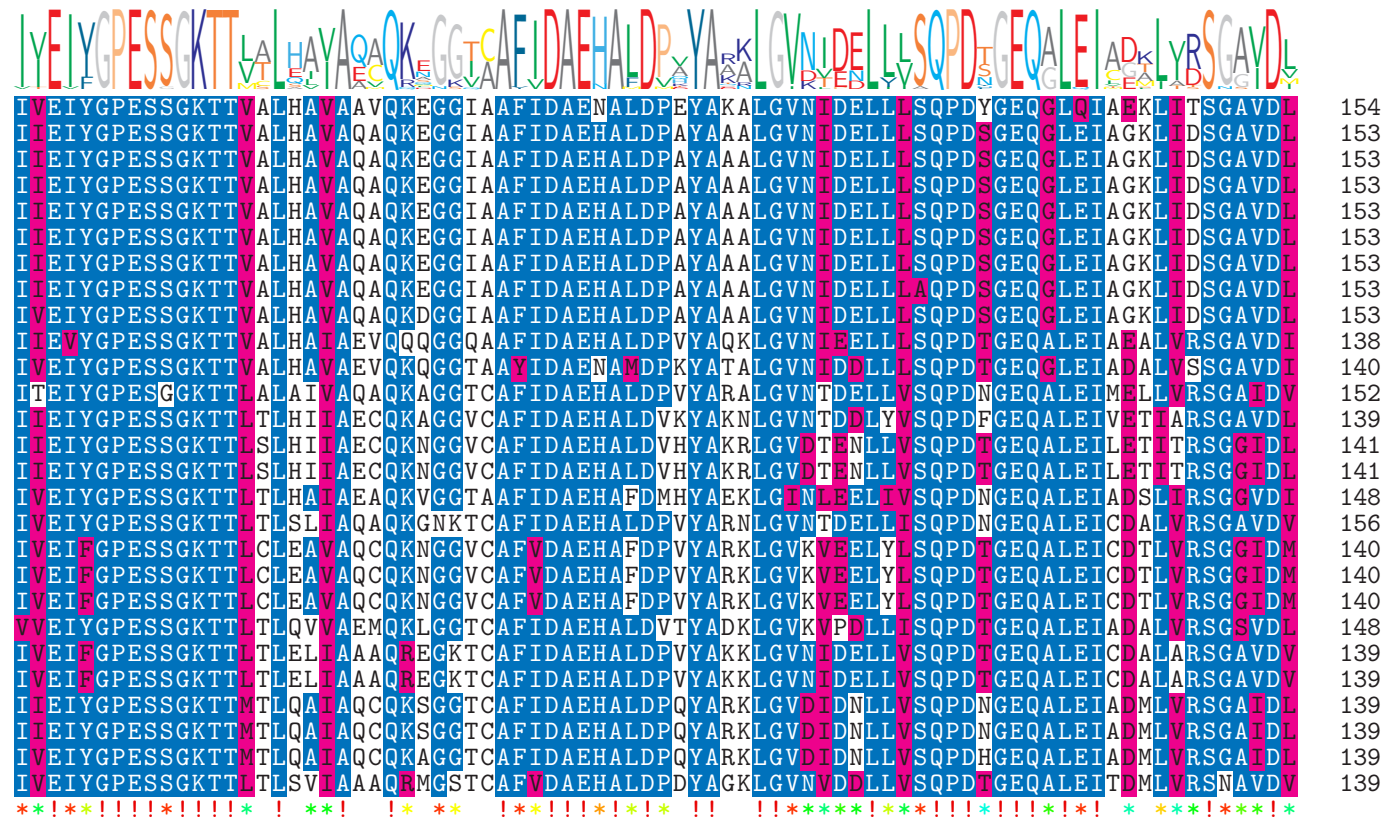
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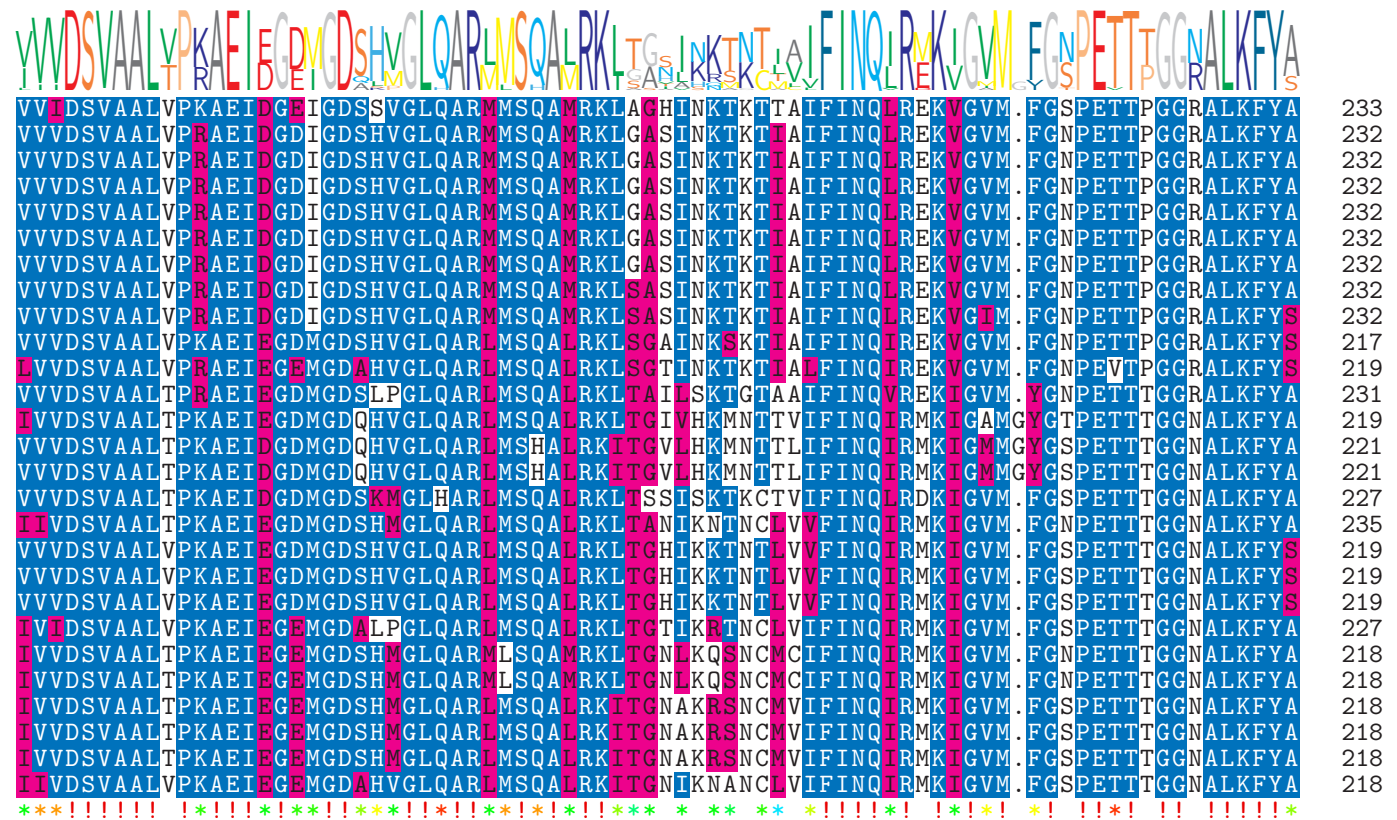
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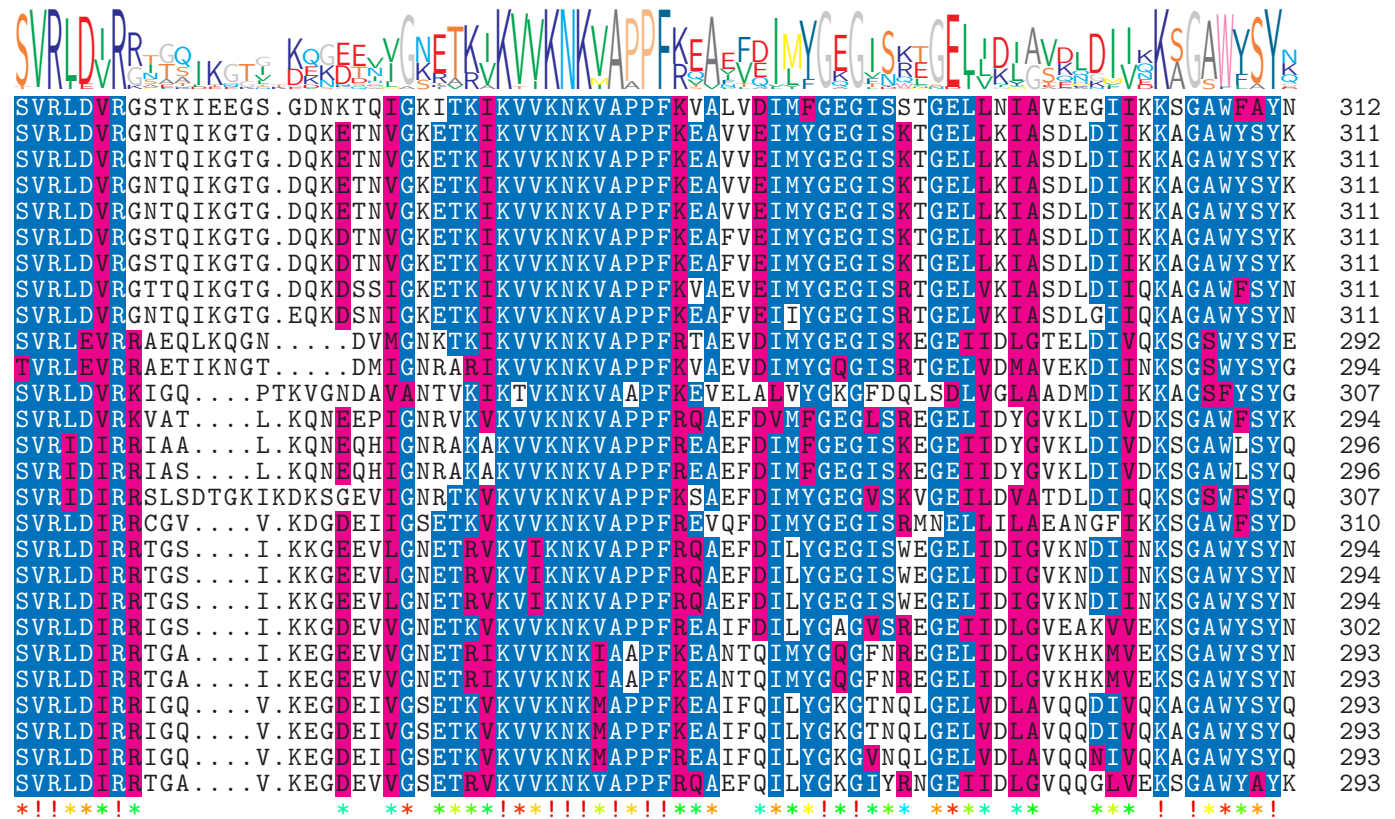
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consensus



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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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|                                             |          |                  |                 |                 |            |                             |        |     |
|---------------------------------------------|----------|------------------|-----------------|-----------------|------------|-----------------------------|--------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA | EKAKNYLKEHQDV    | DEIDHKVRAAHG    | LDDSEVAETEEE    | TTASKTK    | ..AKAKKEEKAVETEEIELELED..   | 387    |     |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS | ENAKKYLAEHPEIF   | DEIDKQVRSKFGL   | LIDGEEVSEQDTE   | NKKD       | E.....PKKEEA..VNEEVPLDLGDEL | 382    |     |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF   | DEIDKQVRSKFGL   | LIDGEEVSEQDTE   | NKKD       | E.....PKKEEA..VNEEVPLDLGDEL | 382    |     |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF   | DEIDKQVRSKFGL   | LIDGEEVSEQDTE   | NKKD       | E.....PKKEEA..VNEEVPLDLGDEL | 382    |     |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGS | ENAKKYLAEHPEIF   | DEIDKQVRSKFGL   | LIDGEEVSEQDTE   | NKKD       | E.....PKKEEA..VNEEVPLDLGDEL | 382    |     |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS | ENAKKYLADNPEVFAE | IDHQVRVQFGL     | LIDGEEAAE       | ....SKKD   | E.....VAQVDS..VNEEVTLDLGDEL | 378    |     |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS | ENAKKYLADNPEIF   | DEIDHQVRVQFGL   | LIDGEEIAE       | ....SKKD   | E.....AAQVDS..VNEEVTLDLGDEL | 378    |     |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS | ENAKRYLADHPQLF   | DEIDRKVRVKFGL   | LEESEEEESAMAV   | ASE        | .....E.....TDDLALDLNGI      | 374    |     |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS | ENAKKFLADNPEIF   | DDIDHKVRVQYGL   | IEEDNTEEKQSS    | KEK        | .....ETDEK..ADKNLVLELDDTI   | 379    |     |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGGG  | RENAKQFLKENKDIM  | LMIQEQIREHYGL   | DNNGVVQQAAEE    | TQEEL      | E..FE.E.....                | 348    |     |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQG  | RENAKNYLADHEDVE  | DEVRLKVRAAYG    | ISDVPPEEDLPTTE  | DE         | QI.N..ILPDDST....EE         | 355    |     |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQG  | KEKTIAIYIAERPE   | MEQEIRDRVMAAIR  | AGNAGEAPALAPAPA | AEAAEA     | .....                       | 363    |     |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGGG  | RENSKAFLENPEIA   | DEITKAIQNSMG    | TEGMISGS        | ..EDDEGE   | ..E.....                    | 343    |     |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGGG  | RENAKALLKEDKAL   | ADEITLKI        | KESIGSNEEIMPL   | ..PDEPLE   | ..EME.....                  | 347    |     |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGGG  | RENAKALLKEDKAL   | ADEITLKI        | KESIGSNEEIMPL   | ..PDEPLE   | ..EME.....                  | 347    |     |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGGG  | RDITVKELIKDNPE   | LAELEAKIREKLQAK | .....           | .....      | .....                       | 343    |     |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQG  | KNNAVKWLKENPEIA  | DKLEQEIRNTLASNP | NSVLK           | ..ATASDSND | ESDVVEEFSE.....EEL          | 372    |     |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWLKENPEIS  | DEIDAKIRALNGV   | EMHITEG         | ..TQDET    | D.....GERPE.....E           | 348    |     |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWLKENPEIS  | DEIDAKIRALNGV   | EMHITEG         | ..TQDET    | D.....GERPE.....E           | 348    |     |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQG  | KDNVRVWLKENPEIS  | DEIDAKIRALNGV   | EMHITEG         | ..TQDET    | D.....GERPE.....E           | 348    |     |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQGR | DNCREFLRENAEL    | AREIENKVRHL     | GVTPMGAV        | ..TLAE     | EEVEED.....                 | 352    |     |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQG  | KANACKYLKENPEIA  | KTLDKKLREMLLN   | PNMQLI          | ..AETSSAAD | DVEFGAVPE.....EF            | 354    |     |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQG  | KANACKYLKENPEIA  | KTLDKKLREMLLN   | PNMQLI          | ..AETSSAAD | DVEFGAVPE.....EF            | 354    |     |
| NTDB id 334267 EP552 RS11210 WP 000344169.1 | GNKIGQG  | KNNVIRYFEENTQIA  | EEIERNIREQL     | LTGTNGAV        | ..Q.I      | EDDEEPPD..LLE               | .....S | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQG  | KNNVIRYFEENNQIA  | EEIERNIREQL     | LTGTNGAV        | ..Q.I      | EDDEEPPD..LLE               | .....S | 349 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQG  | KNNVIRYLEENPQI   | STEIEAVIREQL    | LTASDQTA        | ..A        | HDETEEPPD..LLE              | .....S | 349 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQG  | KANAAYLEENPEI    | GQIEIEQQIRAK    | LLVTSANTKA      | ..TPVAED   | LADAD..I                    | .....  | 347 |
| consensus                                   | ***!!!   | *****            | **              | *****           | *****      | **                          | **     | *   |

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| NTDB id 194 SPR RS08825 WP 001085462.1      | EIEIEE | 388 |
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consensus

 non conserved  
 similar  
 ≥ 50% conserved