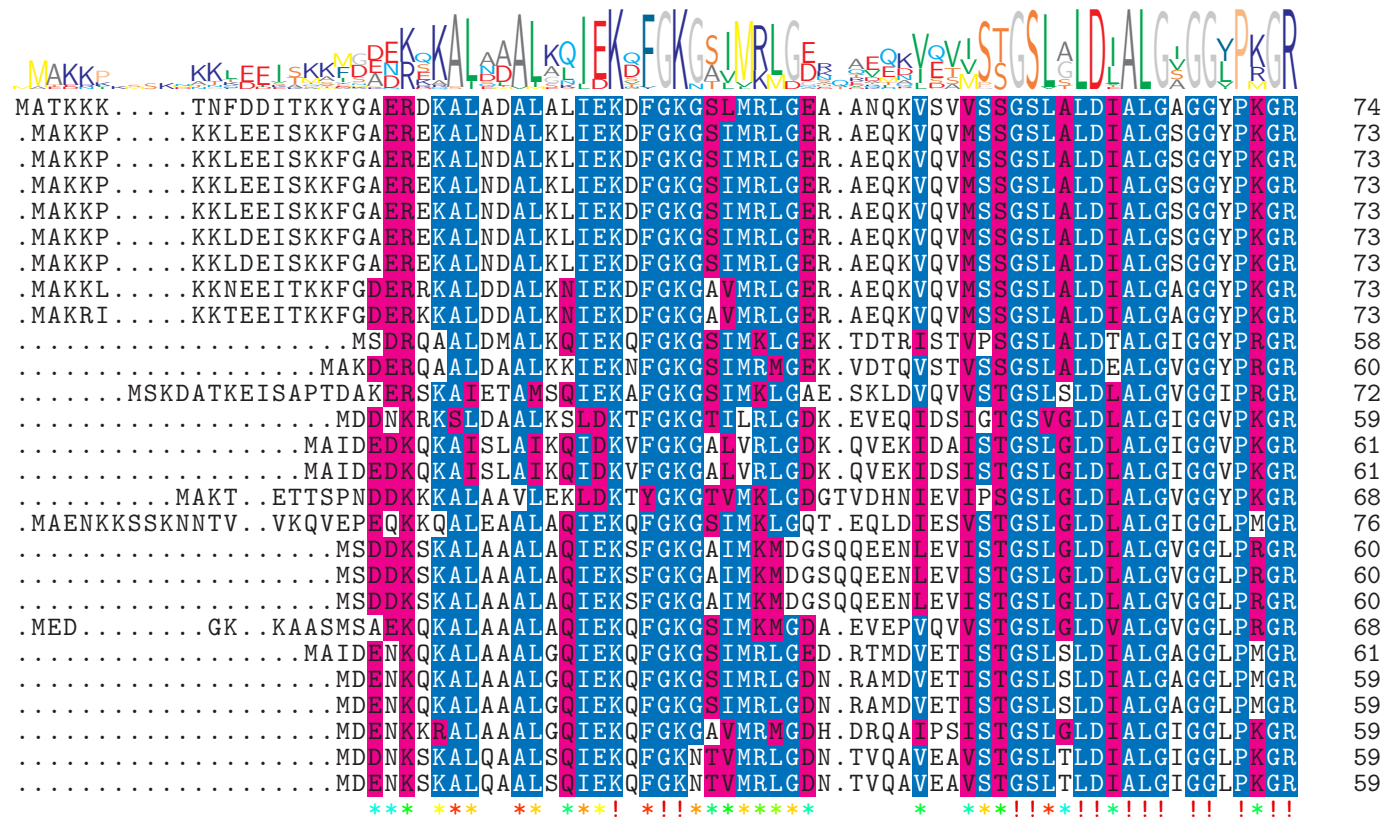


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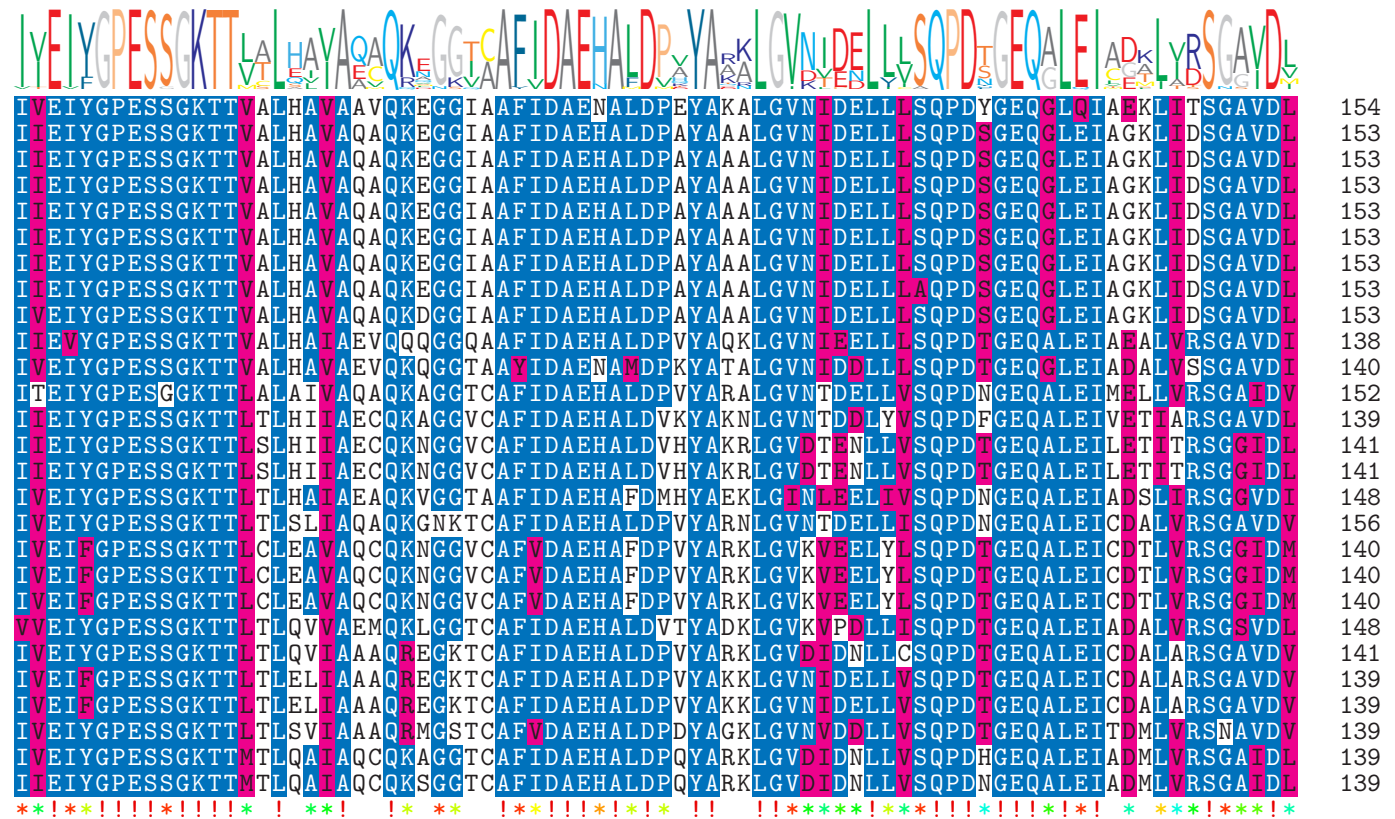
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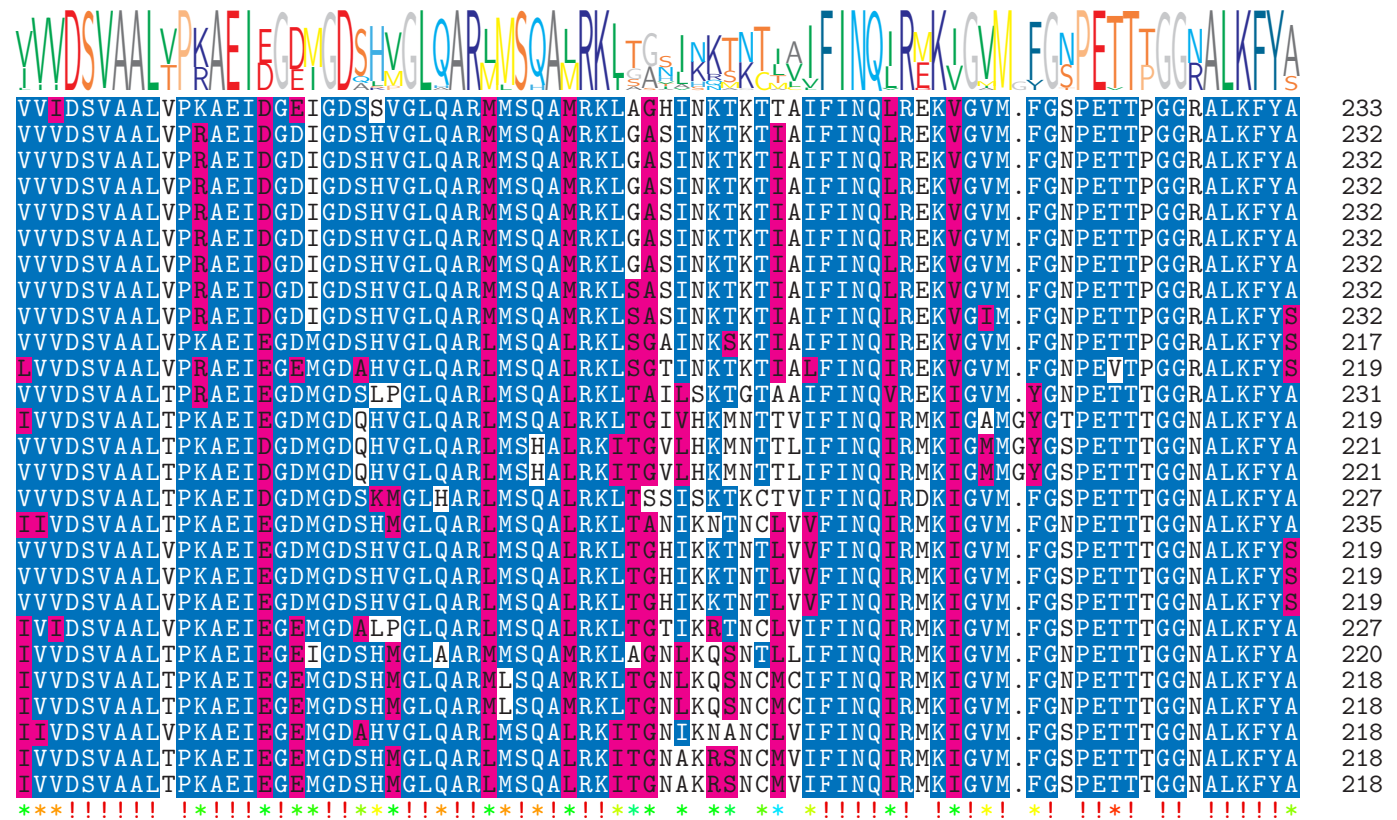
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consensus

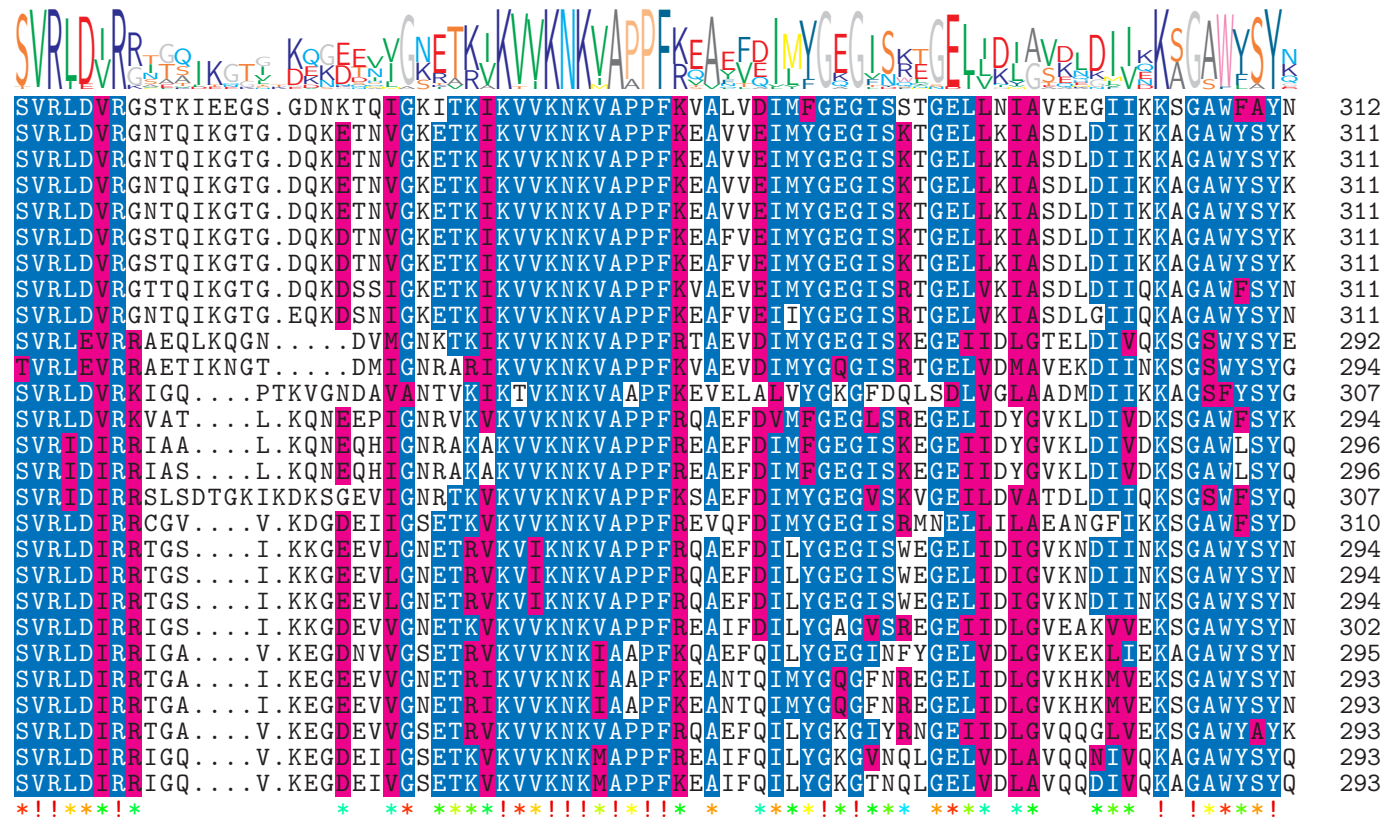
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NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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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 |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKFGL  | IDGEEVSEQDTEN  | KKDE....PKKEEA    | .VNEEVPLDLGDE       | LEIE        | 385 |
| 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     | AAYGISDVP      | PEEDLPTTEDE       | .QI.NILPDDST        | ....EE..... | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQGS | KEKTIA         | YIAERPEMEQE    | IRDRVMAAIR     | AGNAGEAPAL        | APAPAA.PEAAEA       | .....       | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DK       | KLGGGREN       | SKAFLKENPEI    | ADEITKAIQNS    | MGIEGMISG         | SEDDE..GE.E.....    |             | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DK       | KLGGGREN       | AKALLKEDK      | ALADEITLKIK    | ESIGSNEEI         | IMPLPDEP..LE.EME    | .....       | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DK       | KLGGGREN       | AKALLKEDK      | ALADEITLKIK    | ESIGSNEEI         | IMPLPDEP..LE.EME    | .....       | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DT       | KLGGGRD        | TVKELIKDN      | PELAEELEAKI    | IREKLQAK.....     |                     |             | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GT       | KIGQGK         | NNAVKWLKEN     | PEIADKLEQE     | IRNTLASNP         | NSVLKATAS..D...S    | NDES        | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQGK | DNVRVWLKEN     | PEISDEIDAKI    | RALNGVEMH      | ITEGTQDE..TD..... | GERPEE.....         |             | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQGK | DNVRVWLKEN     | PEISDEIDAKI    | RALNGVEMH      | ITEGTQDE..TD..... | GERPEE.....         |             | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQGK | DNVRVWLKEN     | PEISDEIDAKI    | RALNGVEMH      | ITEGTQDE..TD..... | GERPEE.....         |             | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GE       | RIGQGRD        | NCREFLRENA     | EELAREIENK     | VREHLGVTPM        | GAVTLAEE..VE.ED     | .....       | 352 |
| NTDB id 209552 AGE78 RS10820 WP 002914769.1 | GD       | KIGQGGK        | ANAITWLKEN     | PAAAKEIEKKV    | RELLLNQDA         | KPD..FV..VD.GN      | DAETE       | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GD       | KIGQGGK        | ANACKY         | LKENPEIAKT     | LDKKLREML         | LNPNENMQLI..AE..... | TSSA        | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GD       | KIGQGGK        | ANACKY         | LKENPEIAKT     | LDKKLREML         | LNPNENMQLI..AE..... | TSSA        | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQGG | KANA           | AKYLEENPEI     | GQIEEQ         | IRAKLLVTS         | ANTKA..TP..VA       | EDLAD       | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GN       | KIGQGGK        | NNVIRY         | LEENPQISTE     | IEAVIREQL         | LT                  | TKASD       | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GN       | KIGQGGK        | NNVIRY         | FEENNQIAE      | EIERNIREQL        | LT                  | TGTNG       | 349 |
| consensus                                   |          | ***!!!*****    | ***            | *****          | *****             | ***                 | ***         |     |

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| NTDB id 194 SPR RS08825 WP 001085462.1      | IEE | 388 |
| NTDB id 159 SP RS09750 WP 001085462.1       | IEE | 388 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | IEE | 384 |
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consensus

 non conserved  
 similar  
 ≥ 50% conserved