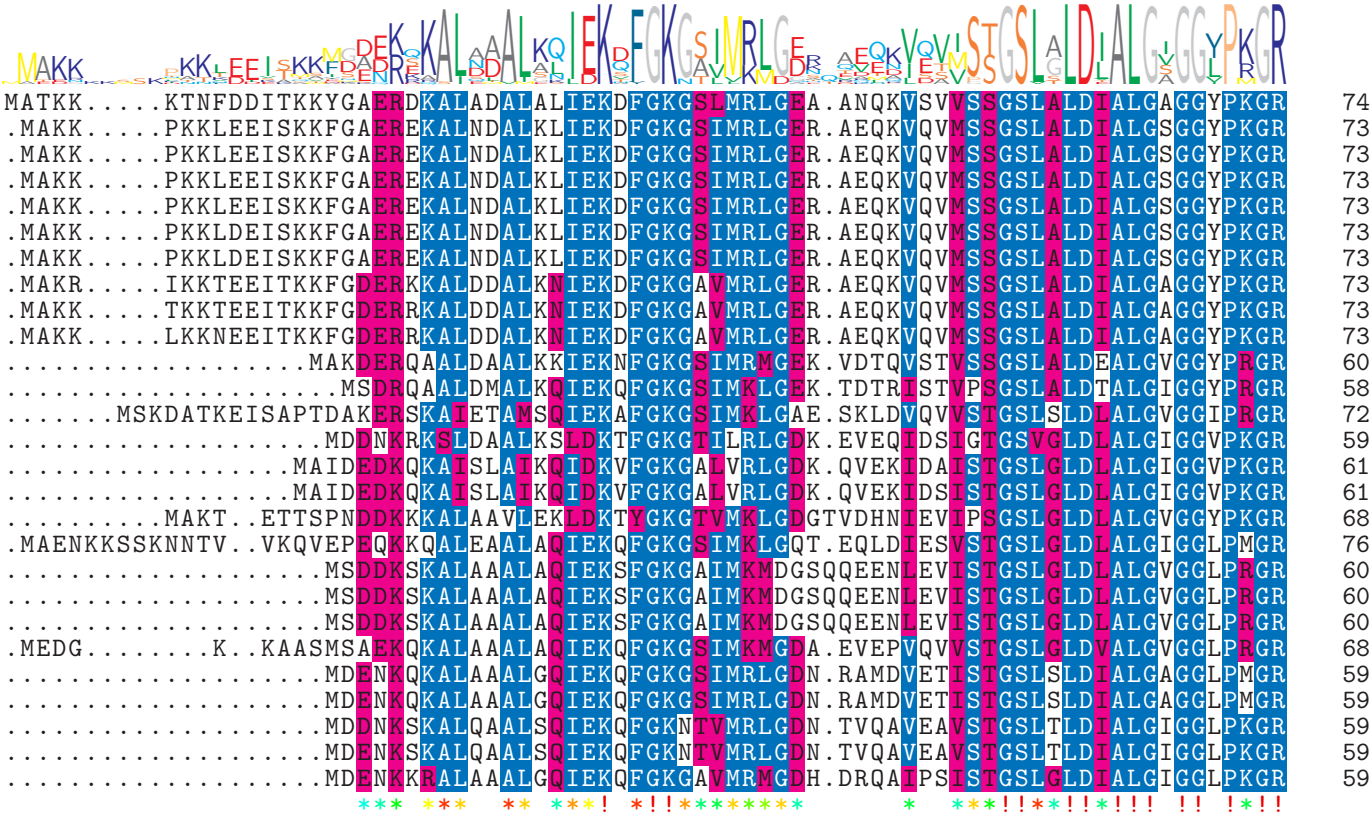


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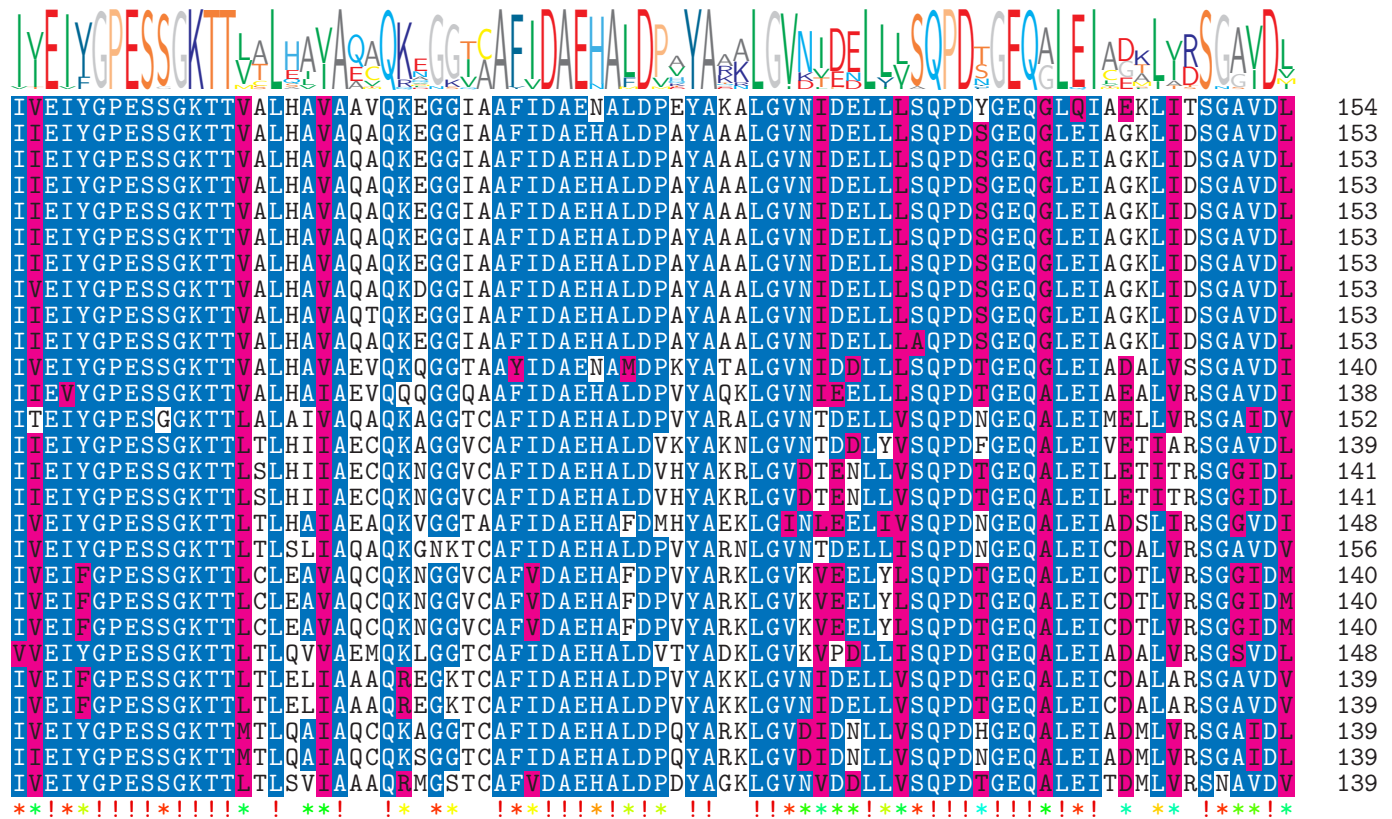
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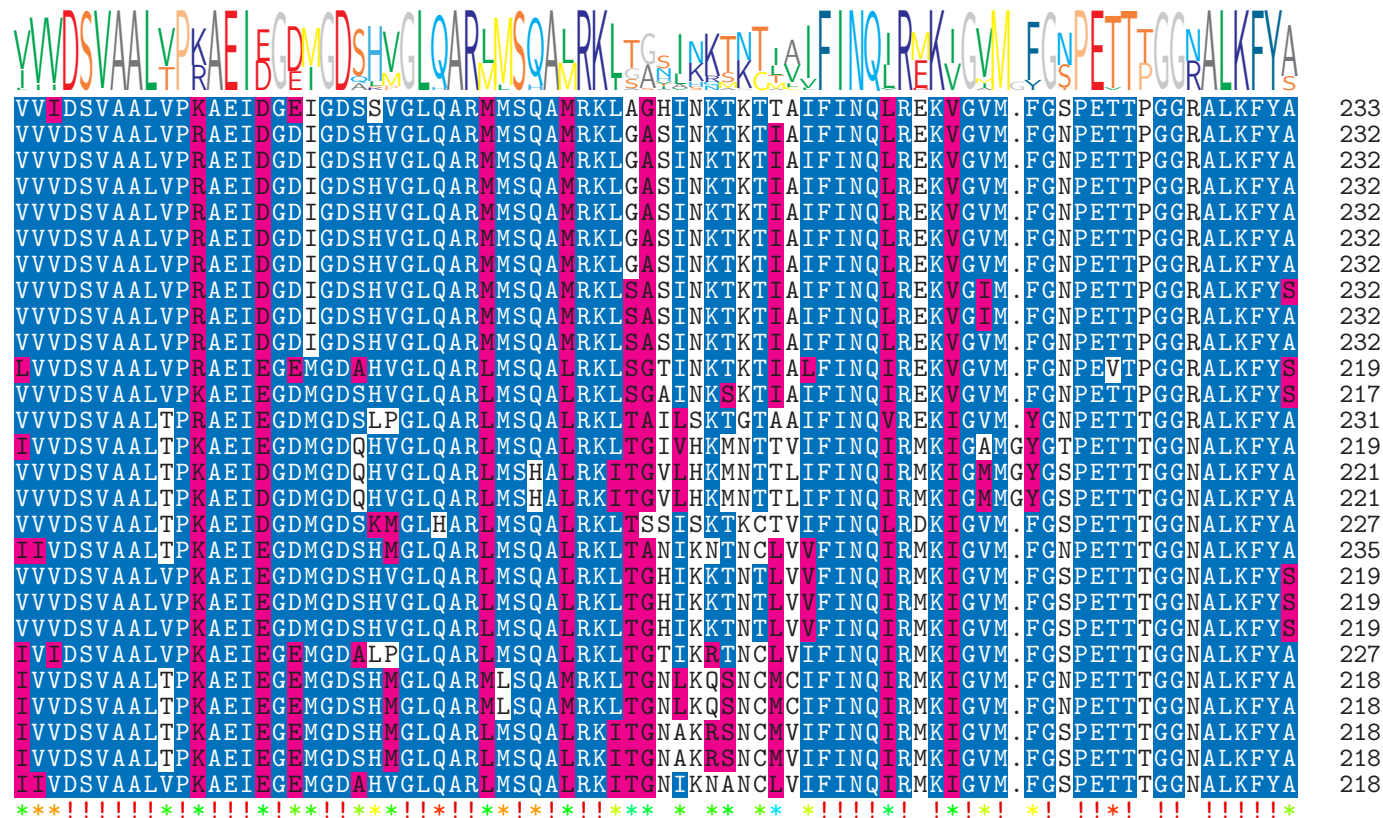
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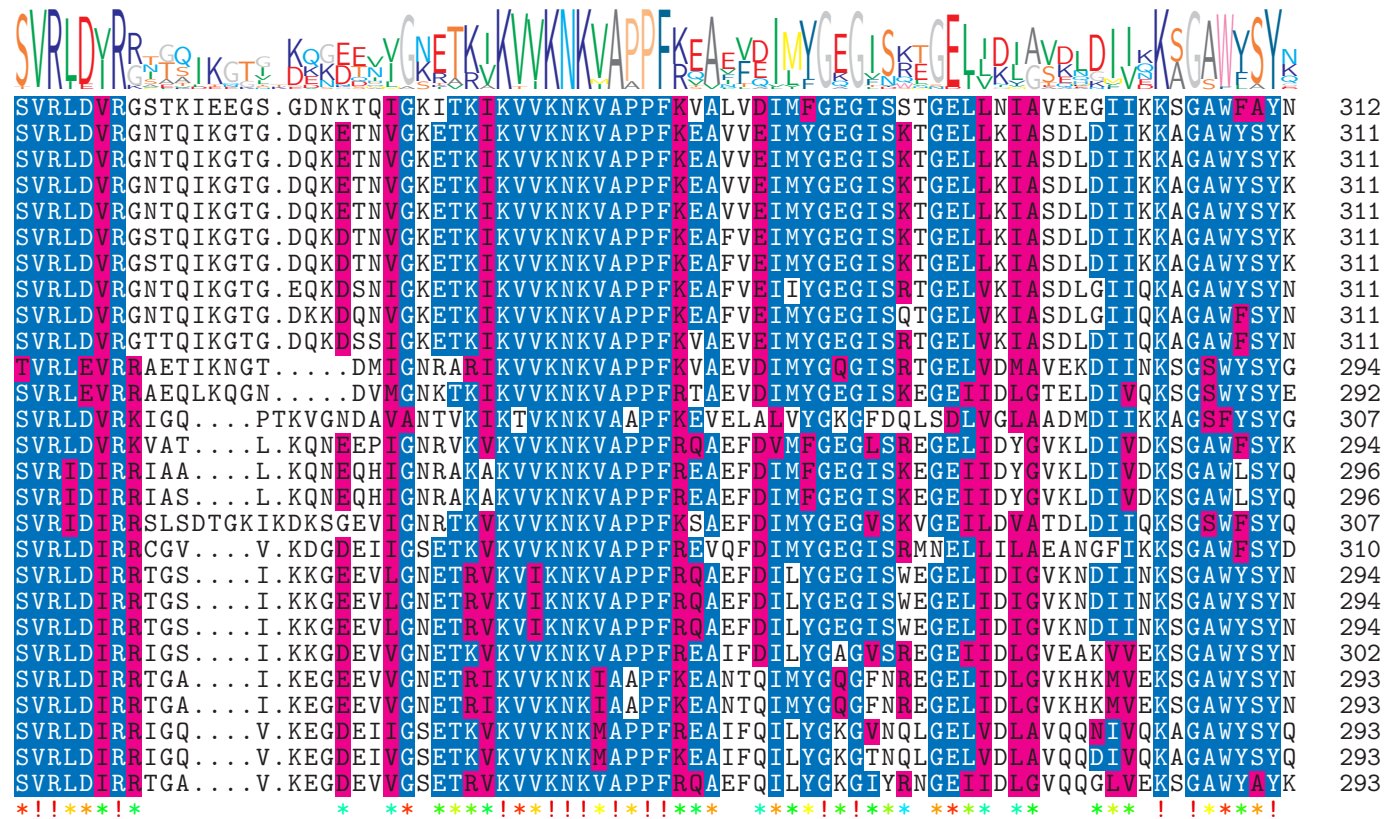
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consensus

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|---------------------------------------------|----------|-------------------|-----------------|----------------|---------------|---------------|-------------------|---------------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA | EKAKNYLKEHQDV     | DEIDHKVRAAHG    | LDDSEVAETEEETT | ASKTKAKAKKEEK | AVETE         | EIELELED          | ....          | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL   | IDGEEVSEQDTEN  | KKDEPKK       | ....EE..      | AVNEEVPLDLGDELEIE |               | 385 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL   | IDGEEVSEQDTEN  | KKDEPKK       | ....EE..      | AVNEEVPLDLGDELEIE |               | 385 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL   | IDGEEVSEQDTEN  | KKDEPKK       | ....EE..      | AVNEEVPLDLGDELEIE |               | 385 |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGS | ENAKKYLAEHPEIF    | DEIDKQVRSKFGL   | IDGEEVSEQDTEN  | KKDEPKK       | ....EE..      | AVNEEVPLDLGDELEIE |               | 385 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS | ENAKKYLAADNPEIF   | DEIDHQVRVQFGL   | IDGEEIAES      | ....KKDEAAQ   | ....VD..      | SVNEEVTLDLGDELEIE |               | 381 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS | ENAKKYLAADNPEVFAE | IDHQVRVQFGL     | IDGEEAAES      | ....KKDEVAQ   | ....VD..      | SVNEEVTLDLGDELEIE |               | 381 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS | ENAKKFLADNPEIF    | DDIDHKVRVQYGL   | IEDNTEEKQSSKE  | KE...T...     | DE..          | KADKNLVLELDDTIELE |               | 382 |
| NTDB id 178227 NX99 RS06505 WP 002886327.1  | GEKIGQGS | ENAKKYLAADHPDIF   | EEIDHKVRVHYGL   | IEPDEEDIVEEAQ  | .....VE..     | ETSD          | ELVLDDLDSTIEIE    |               | 378 |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS | ENAKRYLADHPQLF    | DEIDRKVRVKFGL   | LEESEESAMAV    | .....AS..     | EETD          | DLALDLNGIEIE      |               | 377 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQGS | ENAKNYLADHEDVE    | EVRLKVRVAAAYG   | ISDVPEEDLPTTE  | DE.QIN        | .....         | ILPDDSTEE         |               | 355 |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGQGS | ENAKQFLKENKD      | IMLMIQEQIREHYGL | LDNNGVVQQQAET  | QEELE         | .....         | FE.E              | .....         | 348 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQGS | KEKTIAYIAERP      | EMEQUEIRDRVMAA  | IRAGNAGEAPALAP | APAAPEA       | .....         | AEA               | .....         | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGQGS | RENSKAF           | LKENPEIADEITKAI | QNSMGTIEGMI    | ....SGSEDD    | ..E           | GEE               | .....         | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGQGS | RENAKALLKEDKAL    | ADEITLKIKESIGS  | NEEI....MPLPDE | ..P           | .....         | LEEME             | .....         | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGQGS | RENAKALLKEDKAL    | ADEITLKIKESIGS  | NEEI....MPLPDE | ..P           | .....         | LEEME             | .....         | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGQGR | DTVKELIKDNPELA    | EELAKIREKLQAK   | .....          |               | .....         |                   | .....         | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQGS | KNNVAVKWLKEN      | PEIADKLEQEIRNTL | ASNPN          | ....VLKATASDS | .....         | NDES              | DVEEFSEEL     | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQGS | KDNVRVWLKEN       | PEISDEIDAKIRAL  | NGVEMHI        | ....TEGTQDET  | .....         | GER               | ....PEE       | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQGS | KDNVRVWLKEN       | PEISDEIDAKIRAL  | NGVEMHI        | ....TEGTQDET  | .....         | GER               | ....PEE       | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQGS | KDNVRVWLKEN       | PEISDEIDAKIRAL  | NGVEMHI        | ....TEGTQDET  | .....         | GER               | ....PEE       | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQGR | DNCREFLRENAEL     | AREIENKVRHLGV   | TPMG           | ....AVTLA.EEV | .....         | EED               | .....         | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQGS | KANACKYLLKEN      | PEIAKTLDKKL     | REMLLN         | PENM          | ....QLIAETSSA | .....             | ADDVEFGAVPEEF | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQGS | KANACKYLLKEN      | PEIAKTLDKKL     | REMLLN         | PENM          | ....QLIAETSSA | .....             | ADDVEFGAVPEEF | 354 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQGS | KNNVIRYFEENN      | QIAEEIERN       | IREQLLT        | TKASD         | ....QTAA.HDET | .....             | EEEPDLL..ES   | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQGS | KNNVIRYFEENN      | QIAEEIERN       | IREQLLT        | TTGTN         | ....GAVQ.I.ED | .....             | EEEPDLL..LES  | 349 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQGS | KANAACKYLL        | ENPEIGQIEEQ     | IRAKLL         | VTSAN         | ....TKATPVAED | .....             | LADADI        | 347 |
| consensus                                   | ***!!!   | *****             | **              | *              | ***           | *****         | **                | *             | *   |

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|---------------------------------------------|-----|-----|--|
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| NTDB id 194 SPR RS08825 WP 001085462.1      | IEE | 388 |  |
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| consensus                                   |     |     |  |

-  non conserved
-  similar
-  ≥ 50% conserved