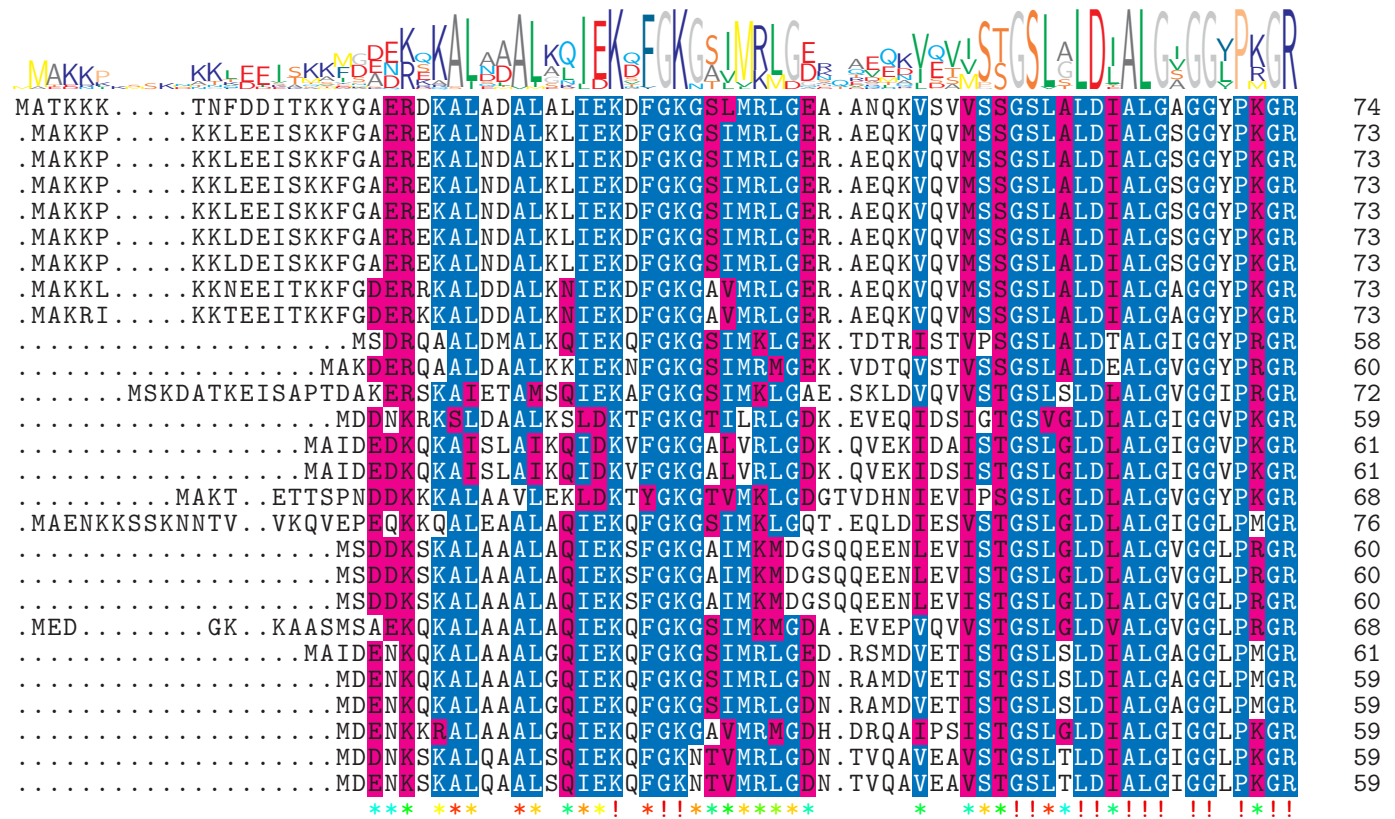


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consensus

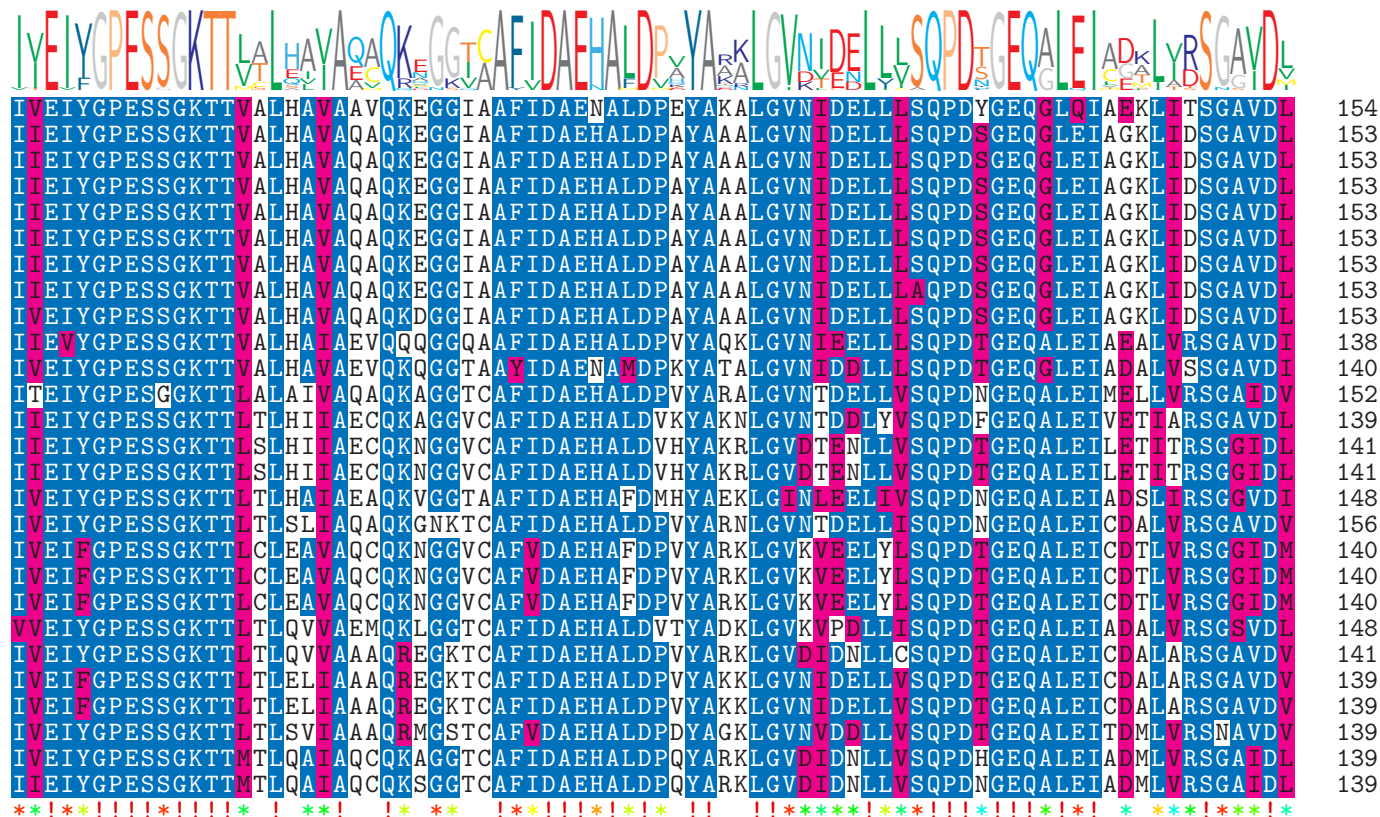
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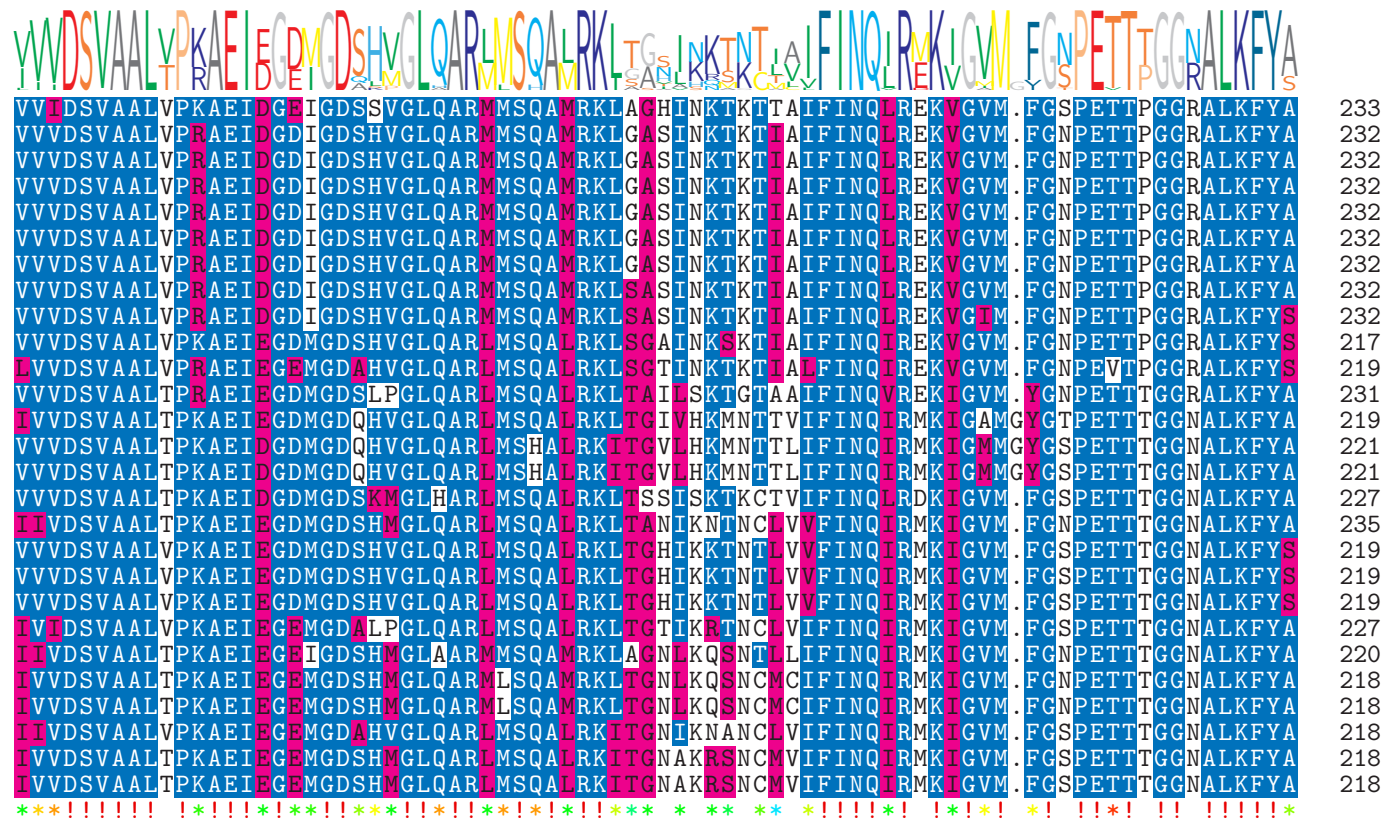
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consensus

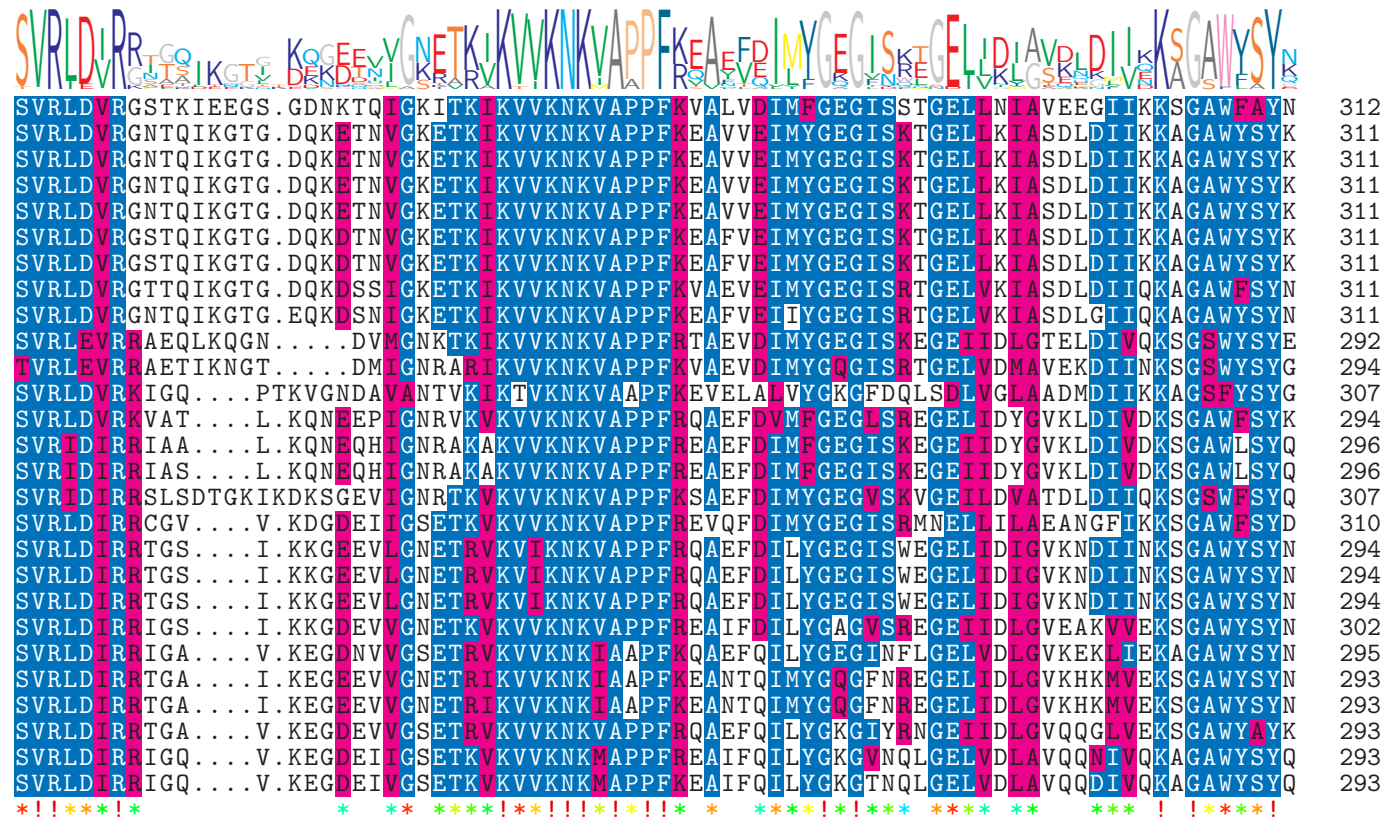
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NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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|                                             |          |                |                |              |           |            |          |             |       |     |
|---------------------------------------------|----------|----------------|----------------|--------------|-----------|------------|----------|-------------|-------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA | EKAKNYLKEHQDV  | DEIDHKVRAAHGL  | LDDSEVAET    | EEETTAS   | TKAKAKKEEK | AVETEEIE | LELED       | 387   |     |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKFGL  | IDGEEVSEQ    | DTENKK    | DE         | PKKEEA   | VNEEVPLDLGD | 380   |     |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKFGL  | IDGEEVSEQ    | DTENKK    | DE         | PKKEEA   | VNEEVPLDLGD | 380   |     |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKFGL  | IDGEEVSEQ    | DTENKK    | DE         | PKKEEA   | VNEEVPLDLGD | 380   |     |
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| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS | ENAKKYLADNPEV  | FAEIDHQVRVQFGL | IDGEEAAE     | SKK       | DE         | VAQVDS   | VNEEVTLDLGD | 376   |     |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS | ENAKKYLADNPEIF | DEIDHQVRVQFGL  | IDGEEIAE     | SKK       | DE         | AAQVDS   | VNEEVTLDLGD | 376   |     |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS | ENAKRYLADHPQLF | DEIDRKVRVKFGL  | LEESEEE      | ESA       | MAVASE     | E        | TDDLALDL    | LDN   | 372 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS | ENAKKFLADNPEIF | DDIDHKVRVQYGL  | IEEDNTEEK    | QSSKEK    | ETDEK      | ADKNLVLE | LDD         | 377   |     |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGGG  | RENAKQFLKENK   | DIIMLIQE       | QIREHYGL     | DNNGVVQ   | QQ         | AEETQE   | EL          | EFE   | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQG  | RENAKNYLADHED  | VEDEVRLKVRAAY  | GISDVPEEDLP  | TTED      | EQI        | NILPDD   | ST          | EE    | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQG  | KEKTIAYIAER    | PEMEQEIRDR     | VMAAIRAGNAGE | APALAPAPA | AEAAEA     |          |             |       | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGGG  | RENSKAF        | LKENPEIA       | DEITKAI      | QNSMG     | TEGMIS     | GSEDD    | EGE         | E     | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGGG  | RENAKALLKED    | KALADEITLK     | IKESIG       | SNEEIM    | PLPDE      | PLE      | EME         |       | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGGG  | RENAKALLKED    | KALADEITLK     | IKESIG       | SNEEIM    | PLPDE      | PLE      | EME         |       | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGGQ  | RDITVKELIK     | DNPELAE        | LEAKIRE      | KLQAK     |            |          |             |       | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQG  | KNNAVKWL       | KENPEIAD       | KLEQEIR      | NTLASN    | PNSV       | LKATAS   | DSNDES      | DVEEF | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWL       | KENPEIS        | DEIDAKI      | RALNGV    | EMHIT      | EG       | TQDE        | TDGER | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWL       | KENPEIS        | DEIDAKI      | RALNGV    | EMHIT      | EG       | TQDE        | TDGER | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQG  | KDNVRVWL       | KENPEIS        | DEIDAKI      | RALNGV    | EMHIT      | EG       | TQDE        | TDGER | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQG  | RDNCREF        | LRENAEL        | AREIENK      | VREHL     | GVTPMGA    | VTL      | AEVEED      |       | 352 |
| NTDB id 58134 NGK45 RS16435 WP 022649140.1  | GDKIGQG  | KANAISWL       | KENPAAAK       | EIEKKV       | RELLSN    | QDSK       | PDFVV    | DGA         | DAEET | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQG  | KANACKYL       | KENPEIA        | AKTLDK       | KLREML    | LNPNEMQ    | LIAET    | SSAADD      | V     | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQG  | KANACKYL       | KENPEIA        | AKTLDK       | KLREML    | LNPNEMQ    | LIAET    | SSAADD      | V     | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQG  | KANAACKYL      | EENPEIG        | QIEQQI       | RAKLL     | TSANT      | KATP     | VAEDLA      | DA    | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQG  | KNNVIRY        | LEENPQ         | ISTEIE       | AVIREQ    | LLTKASDQ   | TAA      | HDETEE      | P     | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQG  | KNNVIRY        | FEENNQ         | IAEEI        | ERNIRE    | QLLTTGTNG  | AVQ      | I           | EDEE  | 349 |
| consensus                                   |          | ***!!!*****    | **             | *****        | *****     | **         | *        |             | *     |     |

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|                                             |          |        |     |
|---------------------------------------------|----------|--------|-----|
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| NTDB id 600 KW2 RS01765 WP 011675413.1      | .....    |        | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | ELEIEIEE |        | 388 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | ELEIEIEE |        | 388 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | ELEIEIEE |        | 388 |
| NTDB id 159 SP RS09750 WP 001085462.1       | ELEIEIEE |        | 388 |
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| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .....    |        | 349 |
| consensus                                   |          |        |     |

- X non conserved
- X similar
- X ≥ 50% conserved