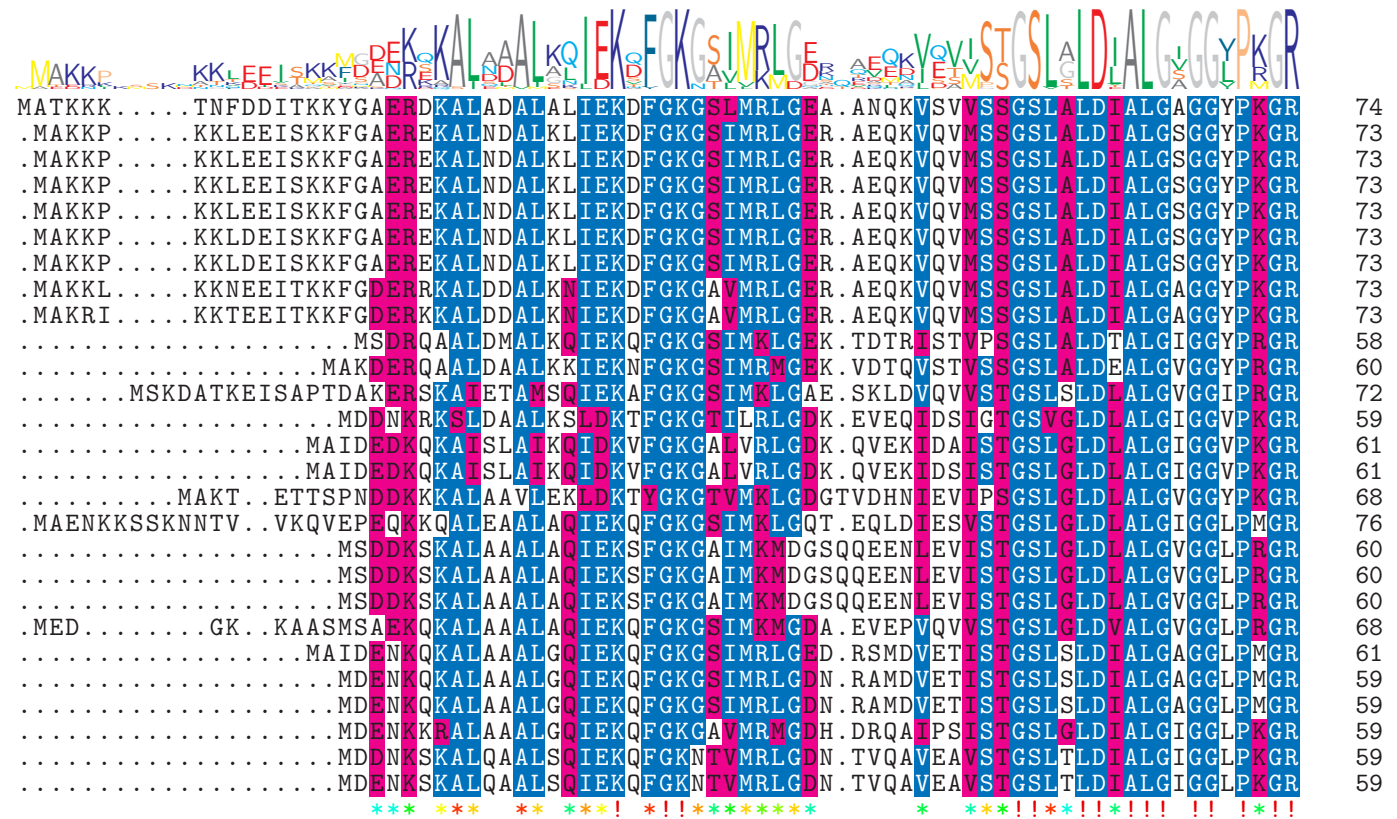


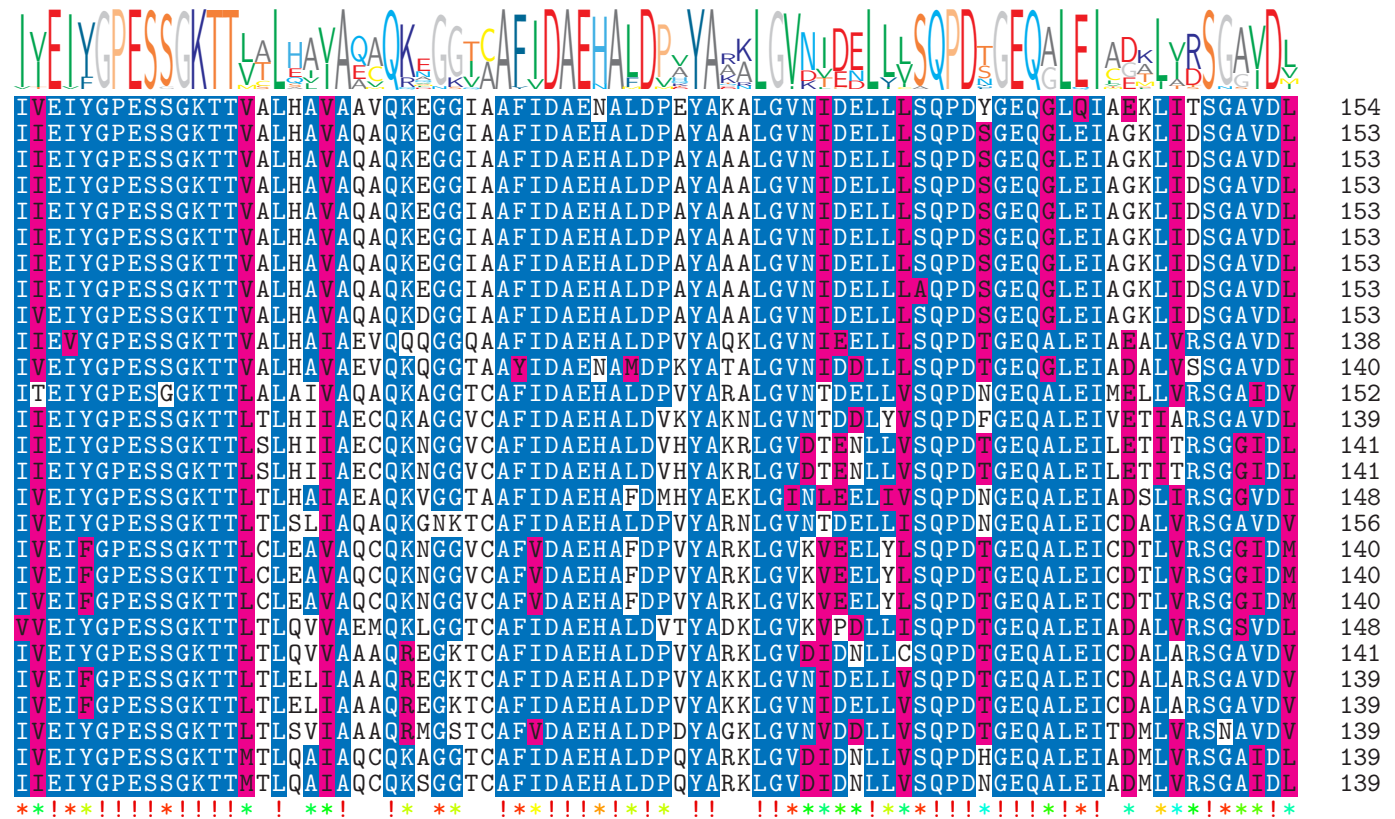
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consensus



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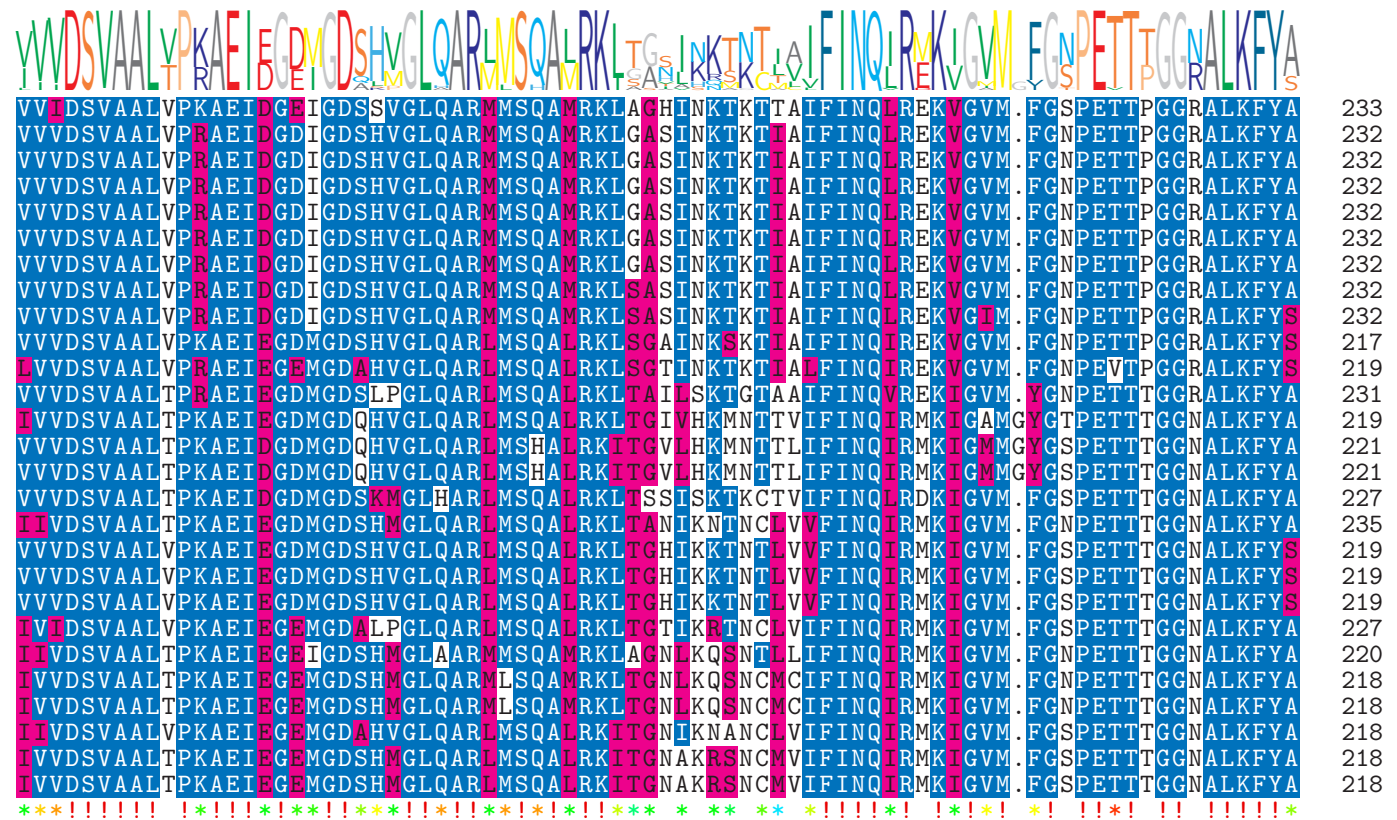
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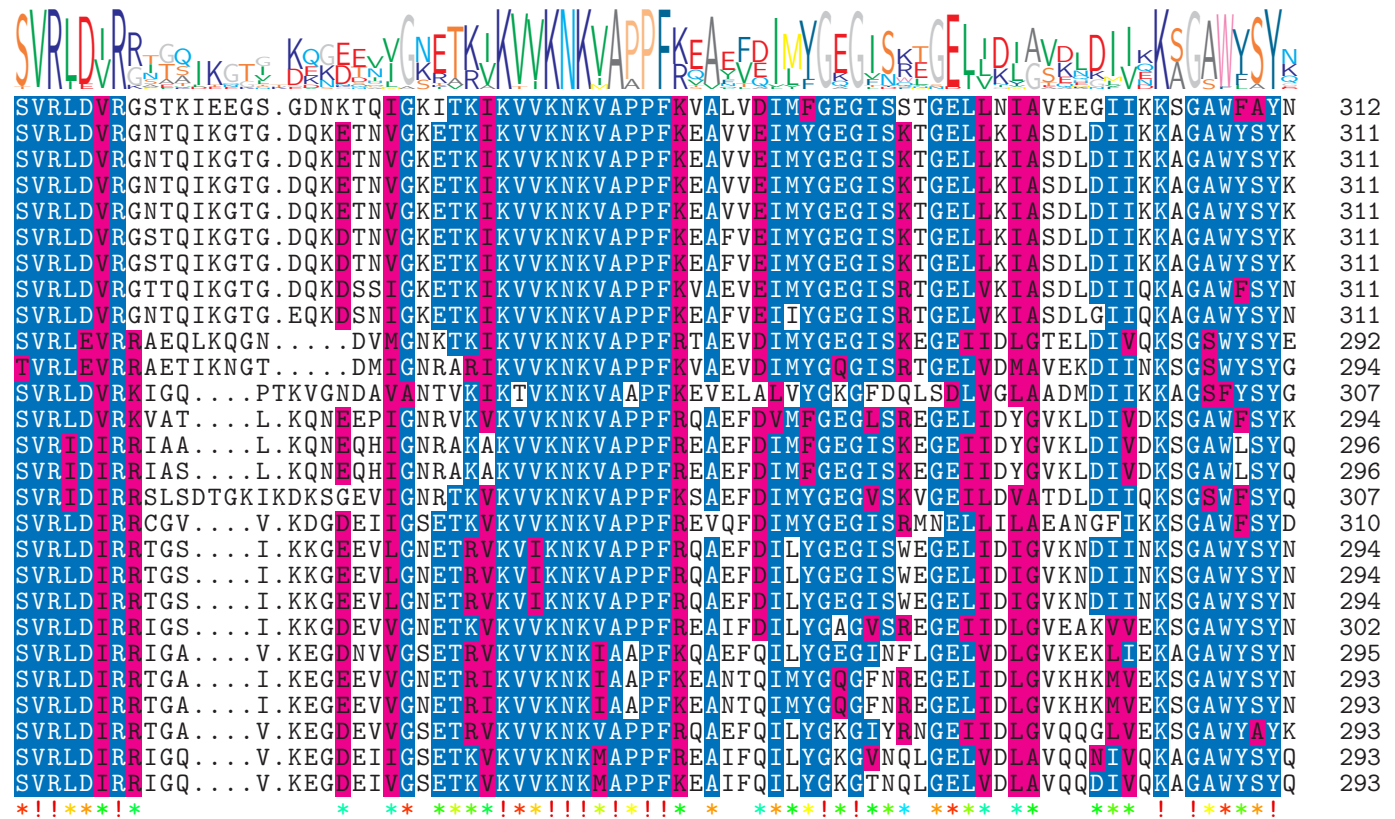
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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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|                                             |          |                |              |             |                   |            |             |             |         |       |      |     |
|---------------------------------------------|----------|----------------|--------------|-------------|-------------------|------------|-------------|-------------|---------|-------|------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA | EKAKNYLKEHQDV  | DEIDHKVRAAHG | LDDSEVAET   | EEETTAS           | TKAKAKKEEK | AVETEEIELE  | LED         | 387     |       |      |     |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKF  | GLIDGEEVSEQ | DTENKK            | DE         | PKKEEA      | VNEEVPLDLGD | 380     |       |      |     |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKF  | GLIDGEEVSEQ | DTENKK            | DE         | PKKEEA      | VNEEVPLDLGD | 380     |       |      |     |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKF  | GLIDGEEVSEQ | DTENKK            | DE         | PKKEEA      | VNEEVPLDLGD | 380     |       |      |     |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGS | ENAKKYLAEHPEIF | DEIDKQVRSKF  | GLIDGEEVSEQ | DTENKK            | DE         | PKKEEA      | VNEEVPLDLGD | 380     |       |      |     |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS | ENAKKYLADNPEV  | FAEIDHQVRVQF | GLIDGEEAAE  | SKK               | DE         | VAQVDS      | VNEEVTLDLGD | 376     |       |      |     |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS | ENAKKYLADNPEIF | DEIDHQVRVQF  | GLIDGEEIAE  | SKK               | DE         | AAQVDS      | VNEEVTLDLGD | 376     |       |      |     |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS | ENAKRYLADHPQLF | DEIDRKVRVKF  | GLLEESEESA  | MAVASE            | E          | TDDLALDLN   |             | 372     |       |      |     |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS | ENAKKFLADNPEIF | DDIDHKVRVQY  | GLIEEDNTEEK | QSSKEK            | ETDEK      | ADKNLVLELDD |             | 377     |       |      |     |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGGG  | RENAKQFLKENK   | DIIMLIQE     | QIREHYGL    | DNNGVVQQ          | AEETQE     | EL          | EFE         | 348     |       |      |     |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQG  | RENAKNYLADHED  | VEDEVRLK     | VRAAYG      | ISDVPEEDLP        | TTEDE      | QI          | NILPDDST    | EE      | 355   |      |     |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQG  | KEKTIA         | YIAERPEME    | QEIRDRV     | MAAIRAGNAGEAPALAP | AAPAAEA    |             |             |         | 363   |      |     |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGGG  | RENSKAF        | LKENPEIA     | DEITKAI     | QNSMG             | IEGMIS     | GSEDD       | EGE         | E       | 343   |      |     |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGGG  | RENAKALLKED    | KALADEIT     | LKIKESIG    | SNEEIM            | PLPDE      | PLE         | EME         |         | 347   |      |     |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGGG  | RENAKALLKED    | KALADEIT     | LKIKESIG    | SNEEIM            | PLPDE      | PLE         | EME         |         | 347   |      |     |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGGQ  | RD             | TVKELIK      | DNPELA      | AELEAK            | IREKLQAK   |             |             |         | 343   |      |     |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQG  | KNNAVKWL       | KENPEIA      | DKLEQE      | IRNTL             | ASNPN      | SV          | LKATAS      | DSNDES  | 372   |      |     |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWL       | KENPEIS      | DEIDAKI     | RALNGV            | EMHIT      | EG          | TQDE        | TDGER   | PEE   | 348  |     |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWL       | KENPEIS      | DEIDAKI     | RALNGV            | EMHIT      | EG          | TQDE        | TDGER   | PEE   | 348  |     |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQG  | KDNVRVWL       | KENPEIS      | DEIDAKI     | RALNGV            | EMHIT      | EG          | TQDE        | TDGER   | PEE   | 348  |     |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQG  | RDNCREF        | LRENAEL      | AREIENK     | VREHL             | GVT        | TPMGA       | VTL         | AEEVEED |       | 352  |     |
| NTDB id 94550 NGK41 RS16535 WP 022649140.1  | GDKIGQG  | KANAISWL       | KENPAAAK     | EIEKKV      | RELLSN            | QDSK       | PDFVV       | DGA         | DAEET   | NEDF  | 352  |     |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQG  | KANACKYL       | KENPEIA      | AKTLDK      | KLREML            | LN         | PENMQ       | LIAET       | SSAADDV | EFGAV | PEEF | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQG  | KANACKYL       | KENPEIA      | AKTLDK      | KLREML            | LN         | PENMQ       | LIAET       | SSAADDV | EFGAV | PEEF | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQG  | KANAACKYL      | ENPEIG       | QIEQQI      | RAKLL             | TSANT      | KATP        | VAED        | LADA    | DI    |      | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQG  | KNNVIRY        | LEENPQ       | ISTEIE      | AVIREQ            | LLTK       | ASDQ        | TAA         | HDETEEP | DLLES |      | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQG  | KNNVIRY        | FEENNQ       | IAEEIERN    | IREQ              | LLTT       | GTNG        | AVQ         | IEDEEP  | DLLLE | S    | 349 |
| consensus                                   | ***!!!   | *****          | **           | *****       | *****             | **         | **          | *           |         |       |      |     |

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|                                             |          |        |     |
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| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | ELEIEIEE |        | 384 |
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| consensus                                   |          |        |     |

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