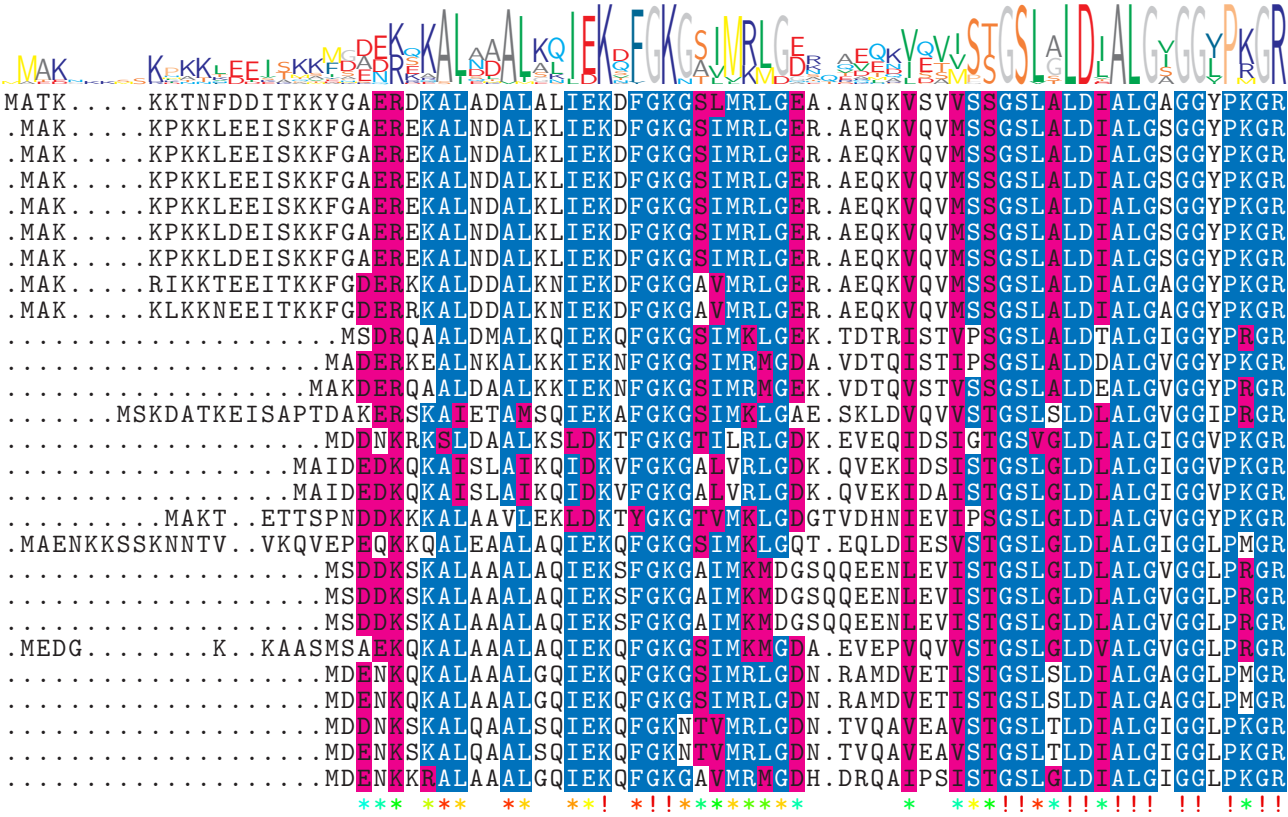


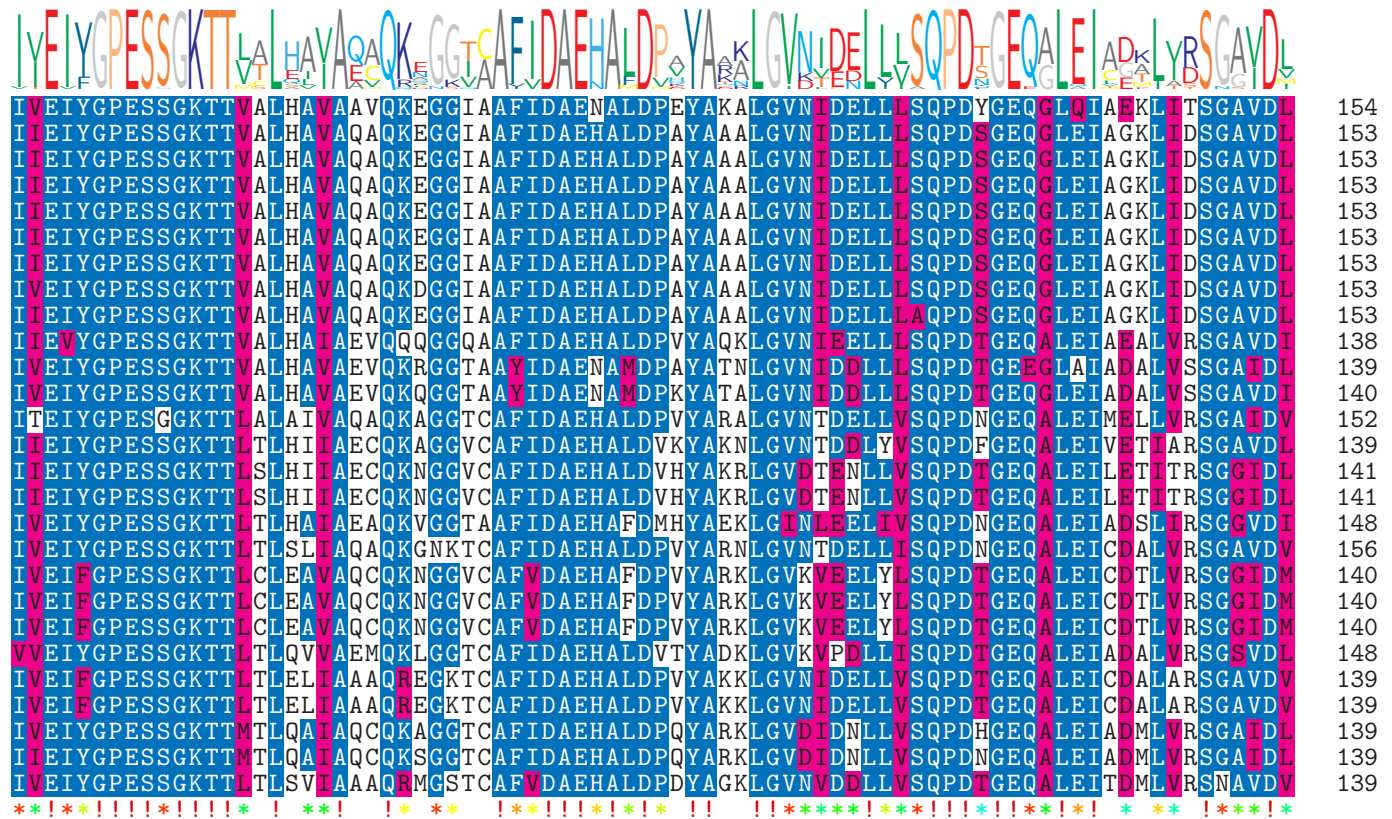
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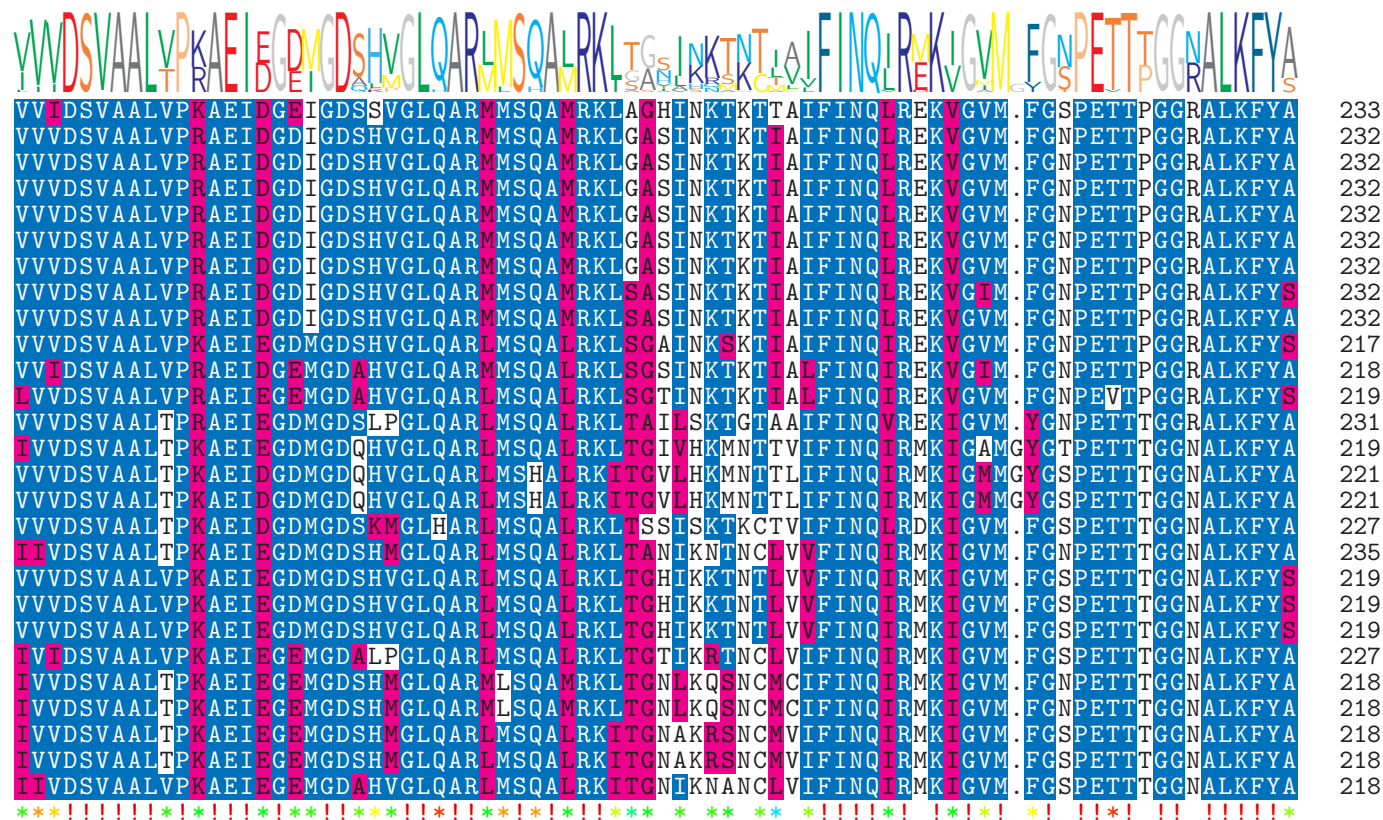


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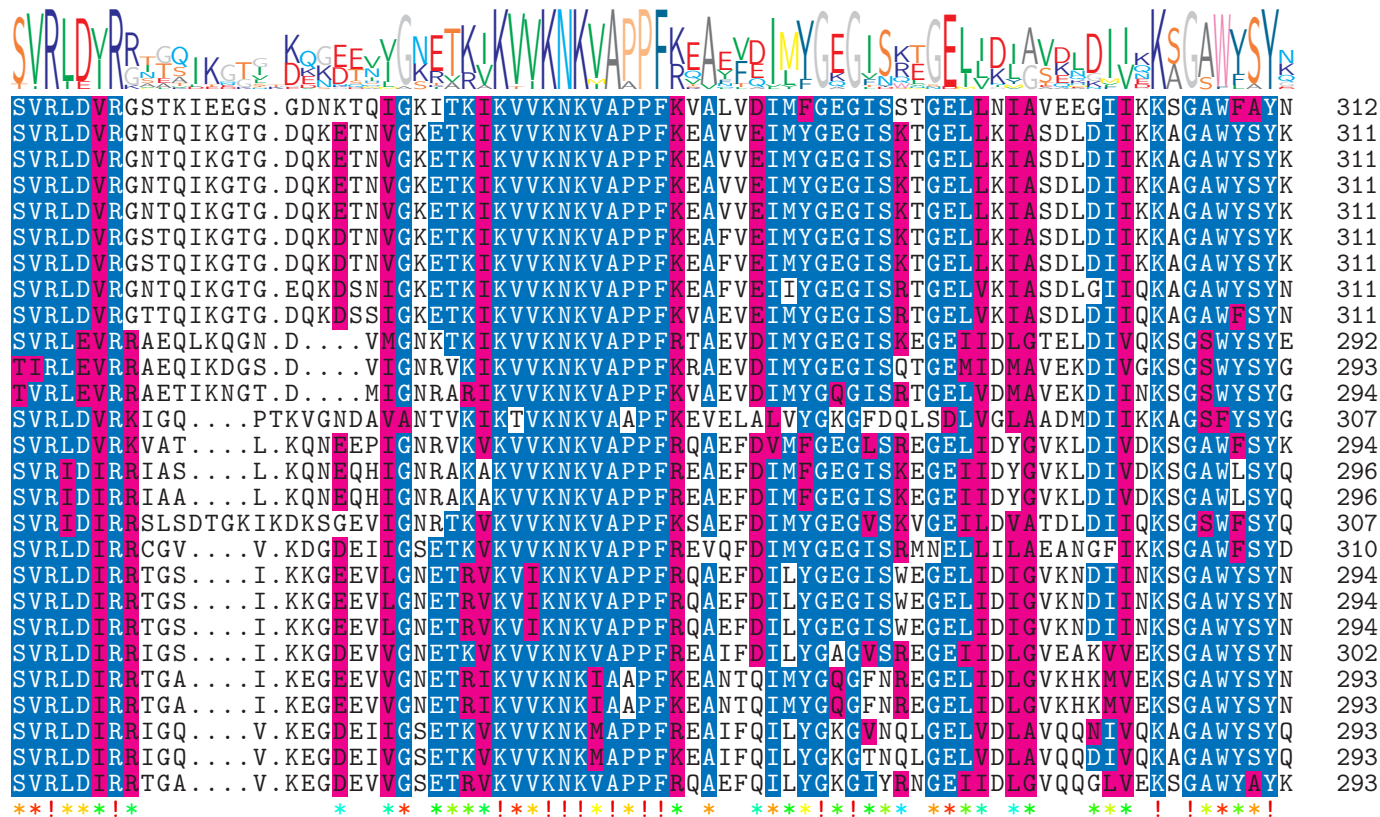
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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|---------------------------------------------|----------|-----------------|-----------------|-------------------|------------------|--------------------|------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA | EKAKNYLKEHQDV   | DEIDHKVRAAHG    | LDDSEVAETEEETT    | ASKTKAKAKKKEEK   | AVETEEIELELED      | .... | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL   | IDGEEVSEQDTENKK   | DE....PKKEEA     | ..VNEEVPLDLGDELEIE |      | 385 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL   | IDGEEVSEQDTENKK   | DE....PKKEEA     | ..VNEEVPLDLGDELEIE |      | 385 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL   | IDGEEVSEQDTENKK   | DE....PKKEEA     | ..VNEEVPLDLGDELEIE |      | 385 |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL   | IDGEEVSEQDTENKK   | DE....PKKEEA     | ..VNEEVPLDLGDELEIE |      | 385 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS | ENAKKYLAADNPEV  | FAEIDHQVRVQFGL  | IDGEEAAE....SKK   | DE....VAQVDS     | ..VNEEVTLDLGDELEIE |      | 381 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS | ENAKKYLAADNPEIF | DEIDHQVRVQFGL   | IDGEEIAE....SKK   | DE....AAQVDS     | ..VNEEVTLDLGDELEIE |      | 381 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS | ENAKKFLADNPEIF  | DDIDHKVVRVQYGL  | IEEDNTEEKQSSKEK   | .....ETDEK       | ..ADKNLVLELDDTIELE |      | 382 |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS | ENAKRYLADHPQLF  | DEIDRKVRVKFGL   | LEESEEEESAMAVASE  | .....E.....      | TDDLALDLDNGIEIE    |      | 377 |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGQG  | RENAKQFLKENKDIM | LMIQEQIREHYGL   | DNNGVVQQAAEE...   | TQEELEFE.....    | E.....             |      | 348 |
| NTDB id 210018 BTW26 RS07035 WP 002832084.1 | EERIGQG  | RENAKKYMEDHPDV  | RAEVLAKVREAYGM  | VADPASEVKEDSKQDD  | QAELDLK.....     |                    |      | 351 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQG  | RENAKNYLADHEDVE | DEVRLKVRAAAYG   | ISDVPEEDLPTTEDE   | ..QINILPD.....   | DSTEE.             |      | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQG  | KEKTIAYIAERP    | EMEQEIRDRVMAA   | IRAGNAGEAPALAPAPA | APAEAAEA.....    |                    |      | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGGQ  | RENSKAFLENPEIA  | DEITKAIQNSMG    | IEGMI....SGSEDD   | ..EGEE.....      |                    |      | 343 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGGQ  | RENAKALLKEDKAL  | ADEITLKIKESIGS  | NEEI....MPLPDE    | ..PLEEME.....    |                    |      | 347 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGGQ  | RENAKALLKEDKAL  | ADEITLKIKESIGS  | NEEI....MPLPDE    | ..PLEEME.....    |                    |      | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGGQ  | RDTVKELIKDNPEL  | AEELEAKIREKLQAK | .....             |                  |                    |      | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQG  | KNNAVKWLKENPEI  | ADKLEQEIRNTLAS  | NPNS....VLKATASDS | NDSDS..VEEFSEEL  | .....              |      | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWLKENPEI  | SDEIDAKIRALNGV  | EMHI....TEGTQDET  | DGER.....PEE     | .....              |      | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWLKENPEI  | SDEIDAKIRALNGV  | EMHI....TEGTQDET  | DGER.....PEE     | .....              |      | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQG  | KDNVRVWLKENPEI  | SDEIDAKIRALNGV  | EMHI....TEGTQDET  | DGER.....PEE     | .....              |      | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQG  | RDNCREFLRENAEL  | AREIENKVREHLG   | VTPMG....AVTLA    | ..EEVEED.....    |                    |      | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQG  | KANACKYLVKENPEI | AKTLDKKLREMLLN  | PENM....QLIAETSSA | ADDVE..FGAVPEEF  | .....              |      | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQG  | KANACKYLVKENPEI | AKTLDKKLREMLLN  | PENM....QLIAETSSA | ADDVE..FGAVPEEF  | .....              |      | 354 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQG  | KNNVIRYLEENPQ   | ISTEIEAVIREQLLT | KASD....QTAA      | ..HDETEEEP       | ..LL..ES.....      |      | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQG  | KNNVIRYFEENNQ   | IAEEIERNIREQLLT | TGTN....GAVQ      | ..I..EDEEEP      | ..LL..LES.....     |      | 349 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQG  | KANAACKYLEENPEI | GQIEIEQQIRAKLL  | VTSAN....TKATPVA  | EADLADAD..I..... |                    |      | 347 |
| consensus                                   | ***!!!   | *****           | **              | *                 | ***              | *****              | **   | **  |

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|---------------------------------------------|-----|-----|-----|
|                                             |     | IEE |     |
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| NTDB id 453 Spy49 1753c ACI62003.1          | D.. |     | 378 |
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| NTDB id 1205 PSJM300 05545 AFN77183.1       | ... |     | 347 |
| consensus                                   |     |     |     |

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