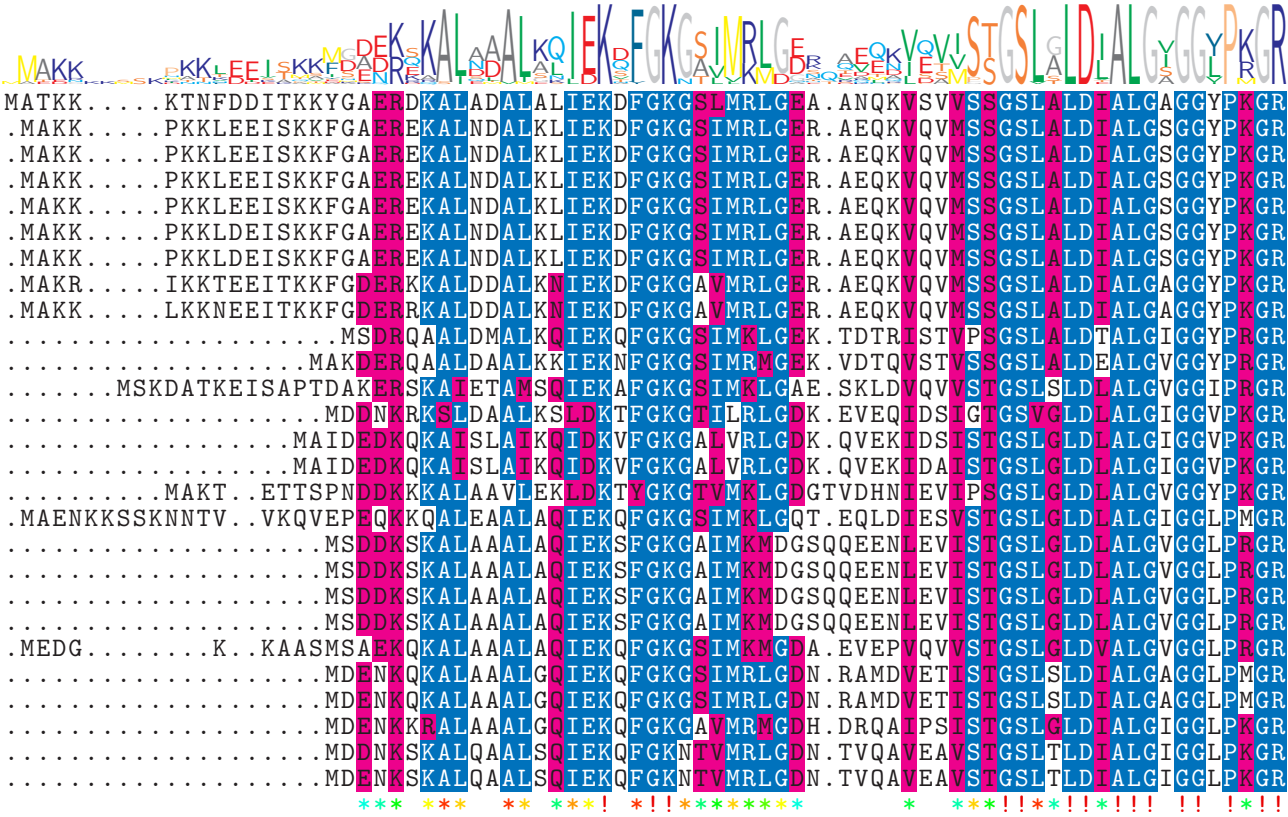


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consensus

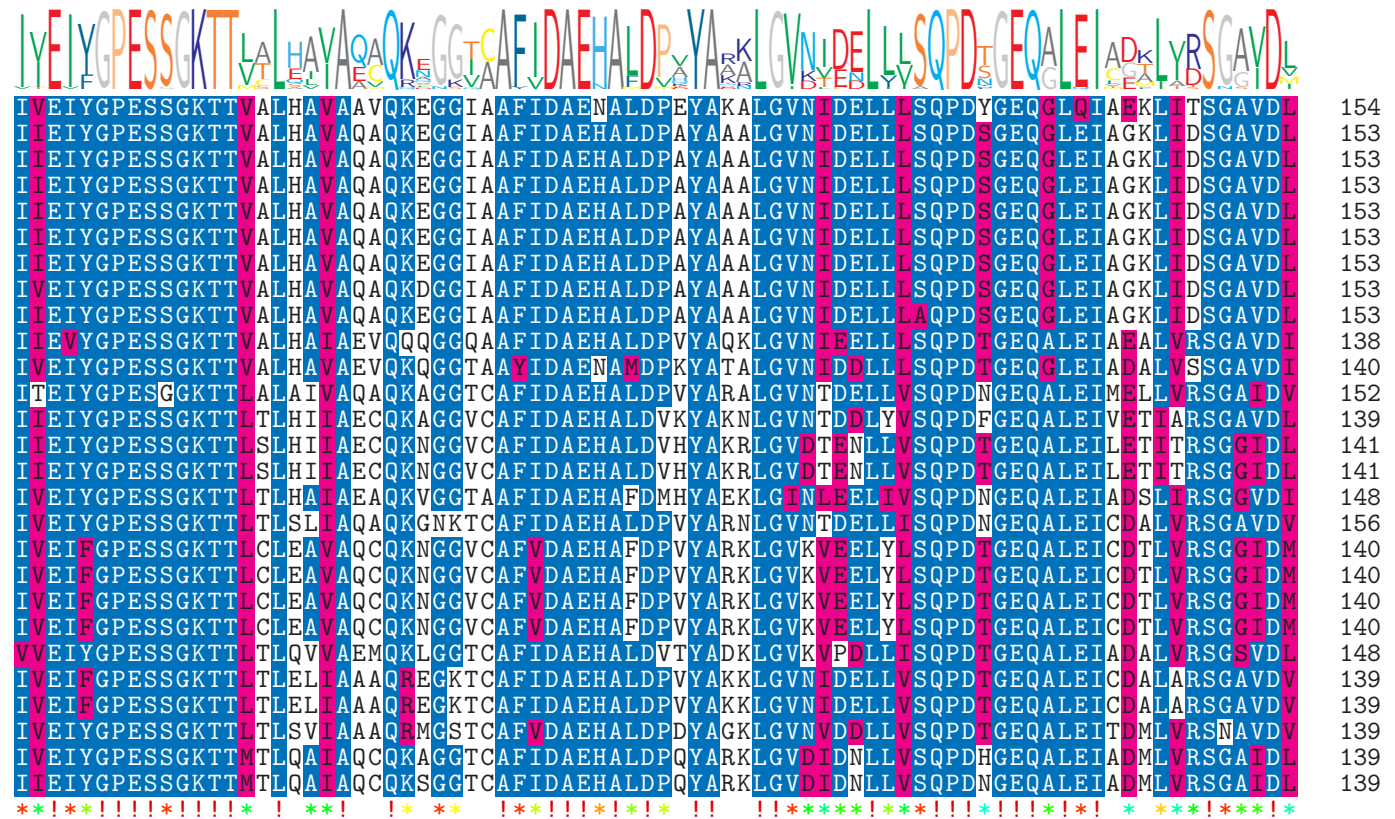


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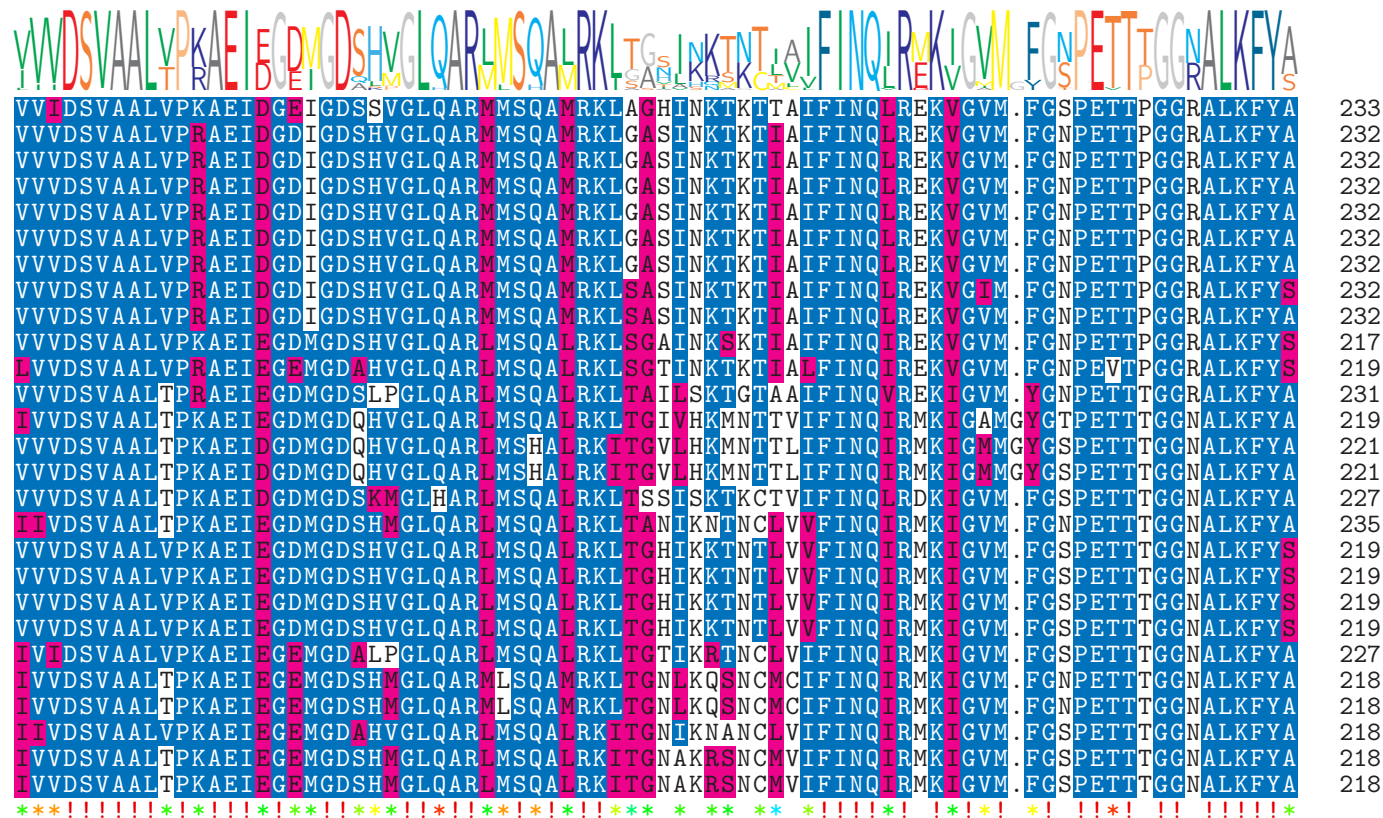
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consensus

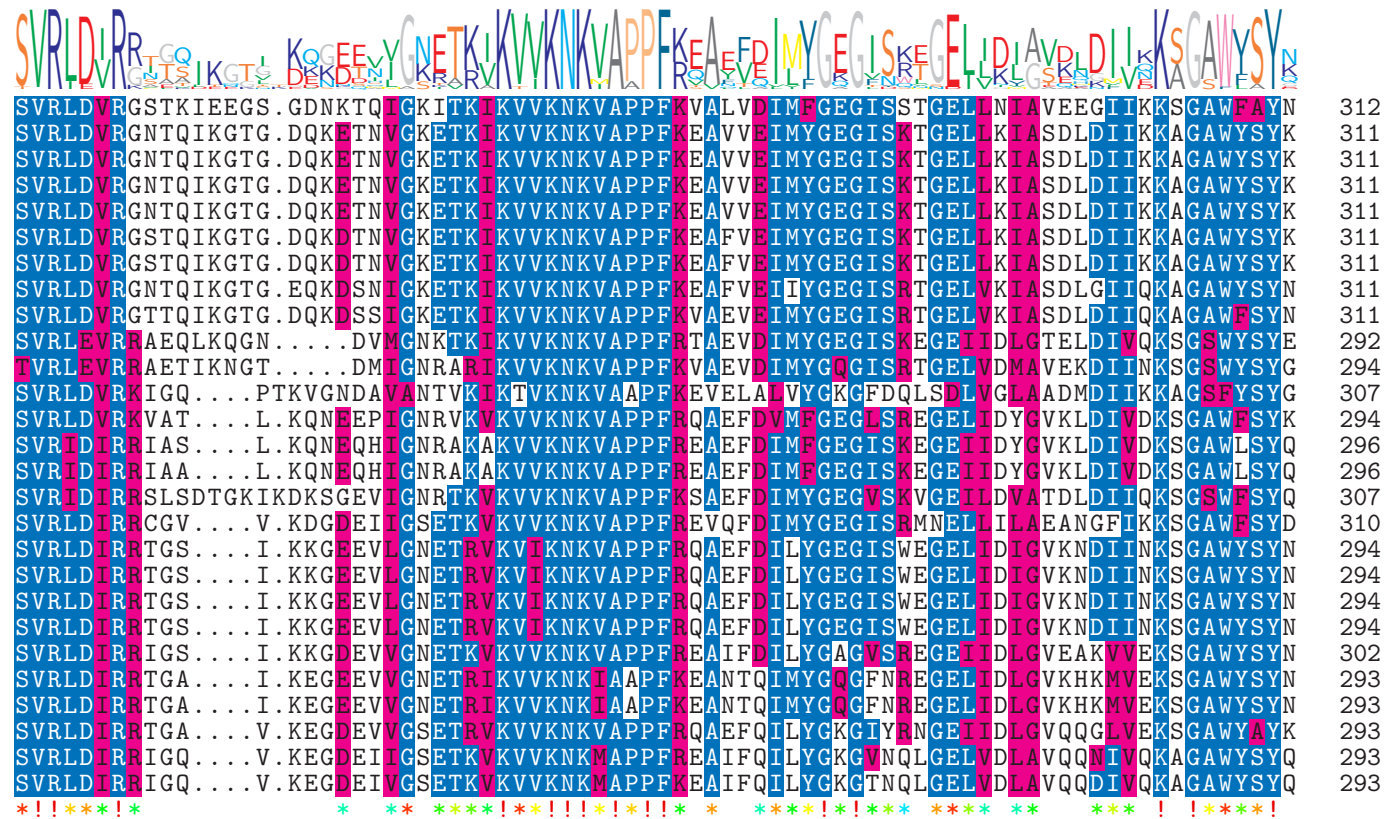
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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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|---------------------------------------------|----------|-----------------|----------------|-----------------|----------------|----------------|--------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA | EKAKNYLKEHQDV   | FDEIDHKVRAAHG  | LDDSEVAETEEETT  | ASKTKAKAKKEEK  | AVETEEIELELED  | .....  | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN   | KKDE....PKKEEA | ..VNEEVPLDLG   | DELEIE | 385 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN   | KKDE....PKKEEA | ..VNEEVPLDLG   | DELEIE | 385 |
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| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS | ENAKKFLADNPEIF  | DDIDHKVRVQYGL  | IEDNTEEKQSSKE   | .....ETDEK     | ..ADKNLVLELDD  | TIELE  | 382 |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS | ENAKRYLADHPQL   | FDEIDRKVRVKFGL | LEESEESAMAVASE  | .....E         | .....TDDLALDLD | NGIEIE | 377 |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGQG  | RENAKQFLKENKD   | IMLMIQEQIREHY  | GLDNNGVVQQAEET  | QEEL.EFE.E     | .....          |        | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQG  | RENAKNYLADHED   | VEDEVRLKVRAAYG | ISDVPPEEDLPTTE  | DE.QI.NILPD    | DST.....EE     |        | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQG  | KEKTIAIYIAERPE  | MEQEIRDRVMAAIR | AGNAGEAPALAPAPA | AEAAE..A       | .....          |        | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGGQ  | RENSKAFLENPEIA  | DEITKAIQNSMCI  | EGMI....SGSEDD  | E..GE..E       | .....          |        | 343 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGGQ  | RENAKALLKEDKAL  | ADEITLKI       | KESIGSNEEI....  | MPLPDEP..LE    | ..EME          |        | 347 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGGQ  | RENAKALLKEDKAL  | ADEITLKI       | KESIGSNEEI....  | MPLPDEP..LE    | ..EME          |        | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGGQ  | RDITVKELIKDNPE  | LAELEAKIREKLQ  | AK.....         |                |                |        | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQG  | KNNAVKWLKENPEI  | ADKLEQEIRNTL   | ASNPN.....VL    | KATASDSND..E   | SDVEEFSEEE     | L..... | 372 |
| NTDB id 190530 A6L35 RS00090 WP 002216923.1 | GAKIGQG  | KDNVRVWLKENPEI  | ADEIDAKIRALNG  | IEMHI....TEGT   | .....Q..DET    | DGERPEE        |        | 348 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQG  | KDNVRVWLKENPEI  | SDEIDAKIRALNG  | VEMHI....TEGT   | .....Q..DET    | DGERPEE        |        | 348 |
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| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQG  | KDNVRVWLKENPEI  | SDEIDAKIRALNG  | VEMHI....TEGT   | .....Q..DET    | DGERPEE        |        | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQG  | RDNCREFLRENAEL  | AREIENKVREHLG  | VTPMG....AV     | TLAEVEE..D     | .....          |        | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQG  | KANACKYLLKENPEI | AKTLDKKLREMLLN | PNENM....QLIA   | ETSSAAD..D     | VEFGAVPEEF     |        | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQG  | KANACKYLLKENPEI | AKTLDKKLREMLLN | PNENM....QLIA   | ETSSAAD..D     | VEFGAVPEEF     |        | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQG  | KANAACKYLEENPEI | GIEQQIRAKLLV   | TSAN....TKATP   | VAEDLA..D      | ADI.....       |        | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQG  | KNNVIRYLEENPQ   | ISTEIEAVIREQLL | TKASD....QTAA   | .HDETEE..E     | PDLL..ES       |        | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQG  | KNNVIRYFEENNQ   | IAEEIERNIREQLL | TTGTN....GAVQ   | .I.EDEE..E     | PDLL..LES      |        | 349 |
| consensus                                   | ***!!!   | *****           | **             | *****           | *****          | **             | **     | *   |

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|---------------------------------------------|-----|-----|-----|
|                                             |     | IEE |     |
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| consensus                                   |     |     |     |

-  non conserved
-  similar
-  ≥ 50% conserved