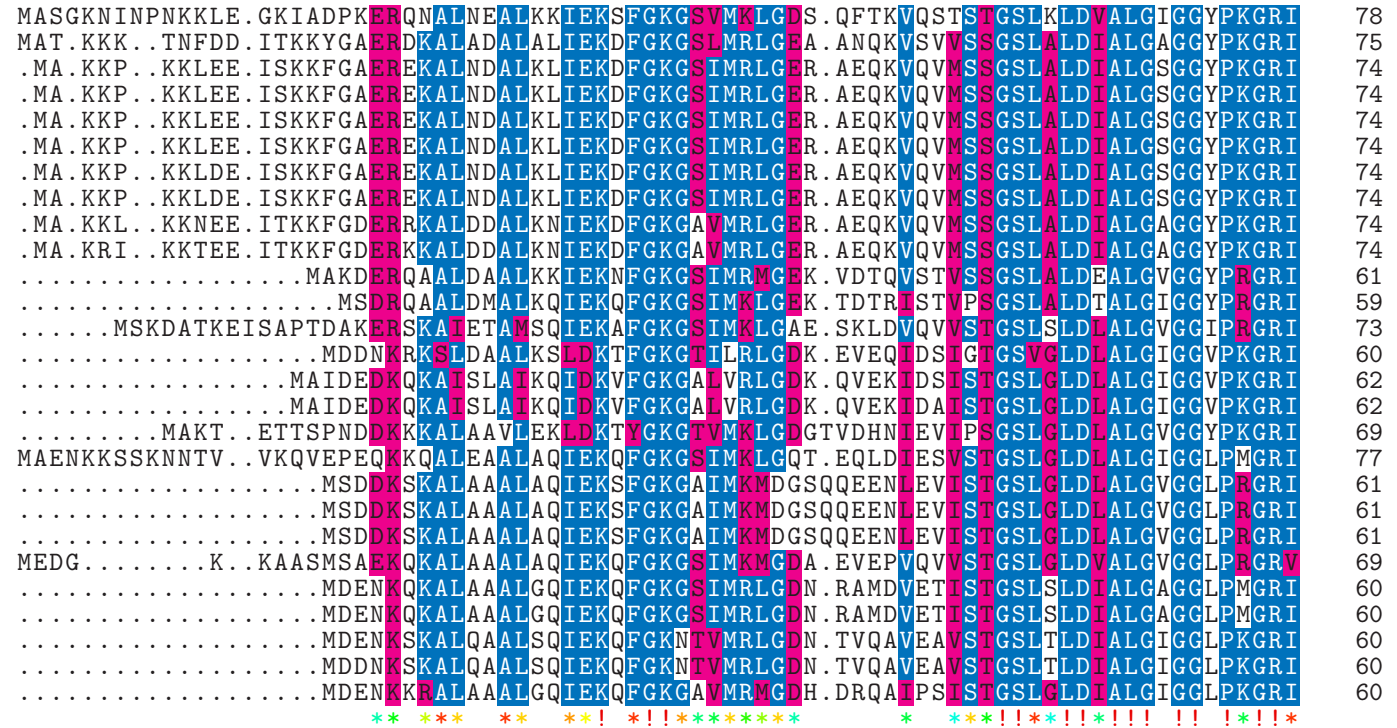


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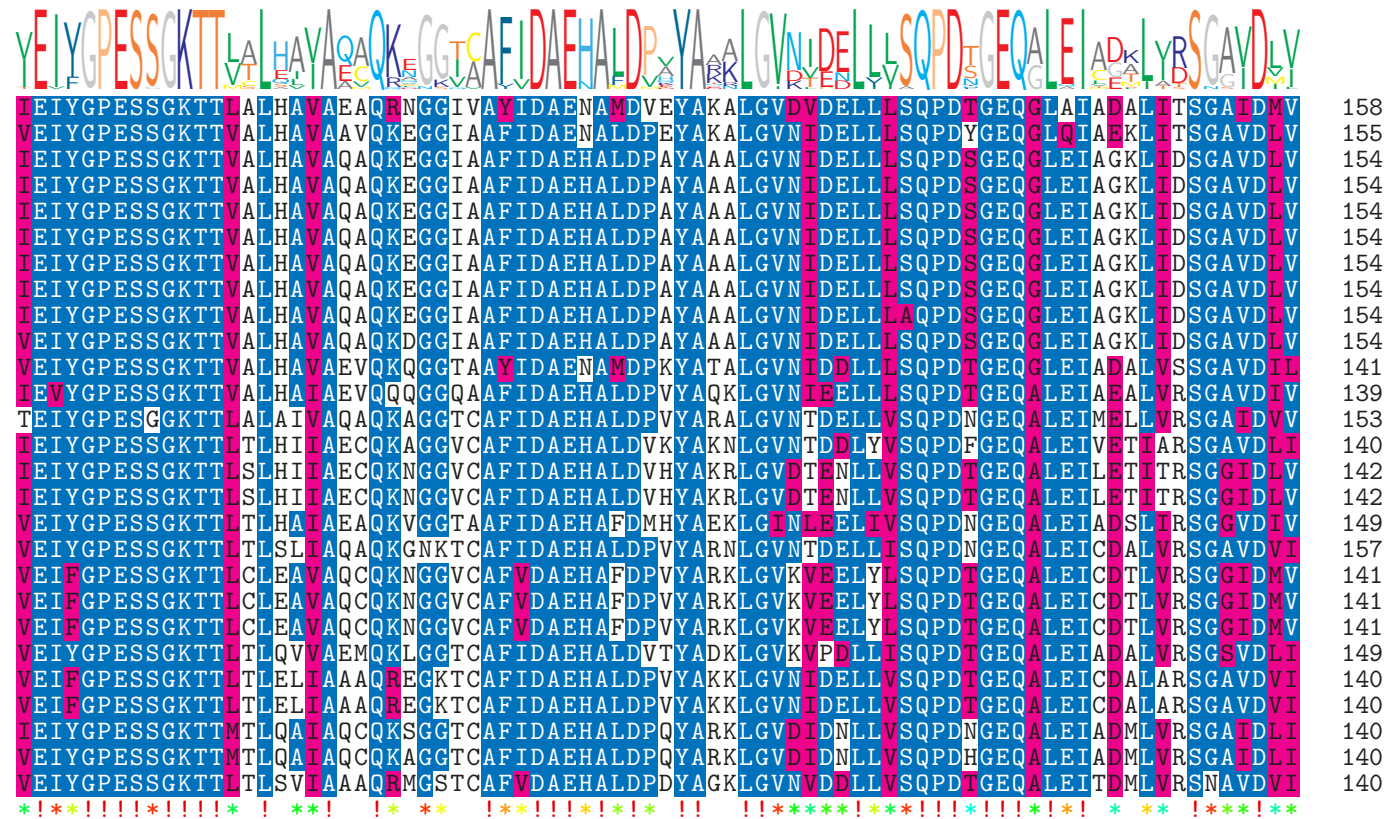
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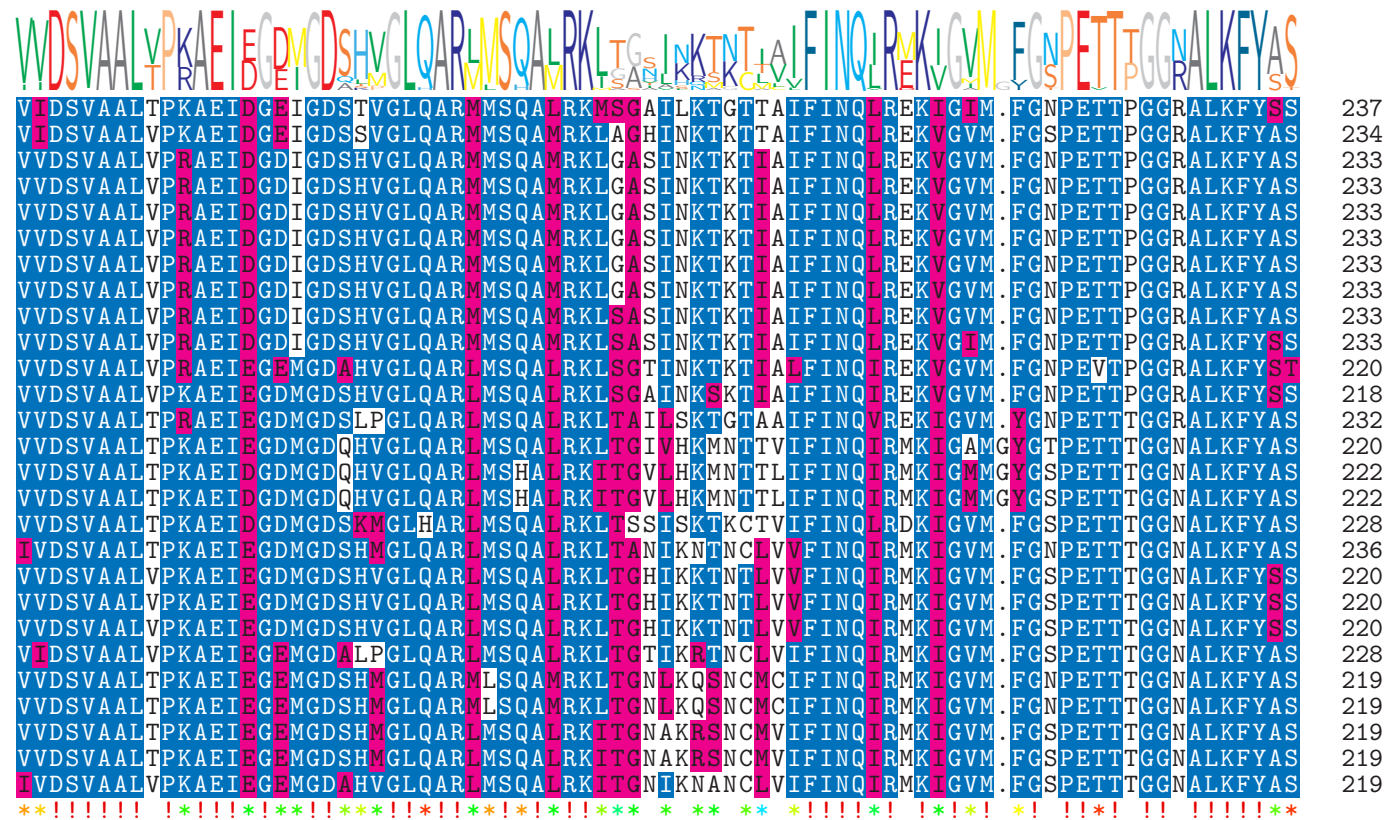
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

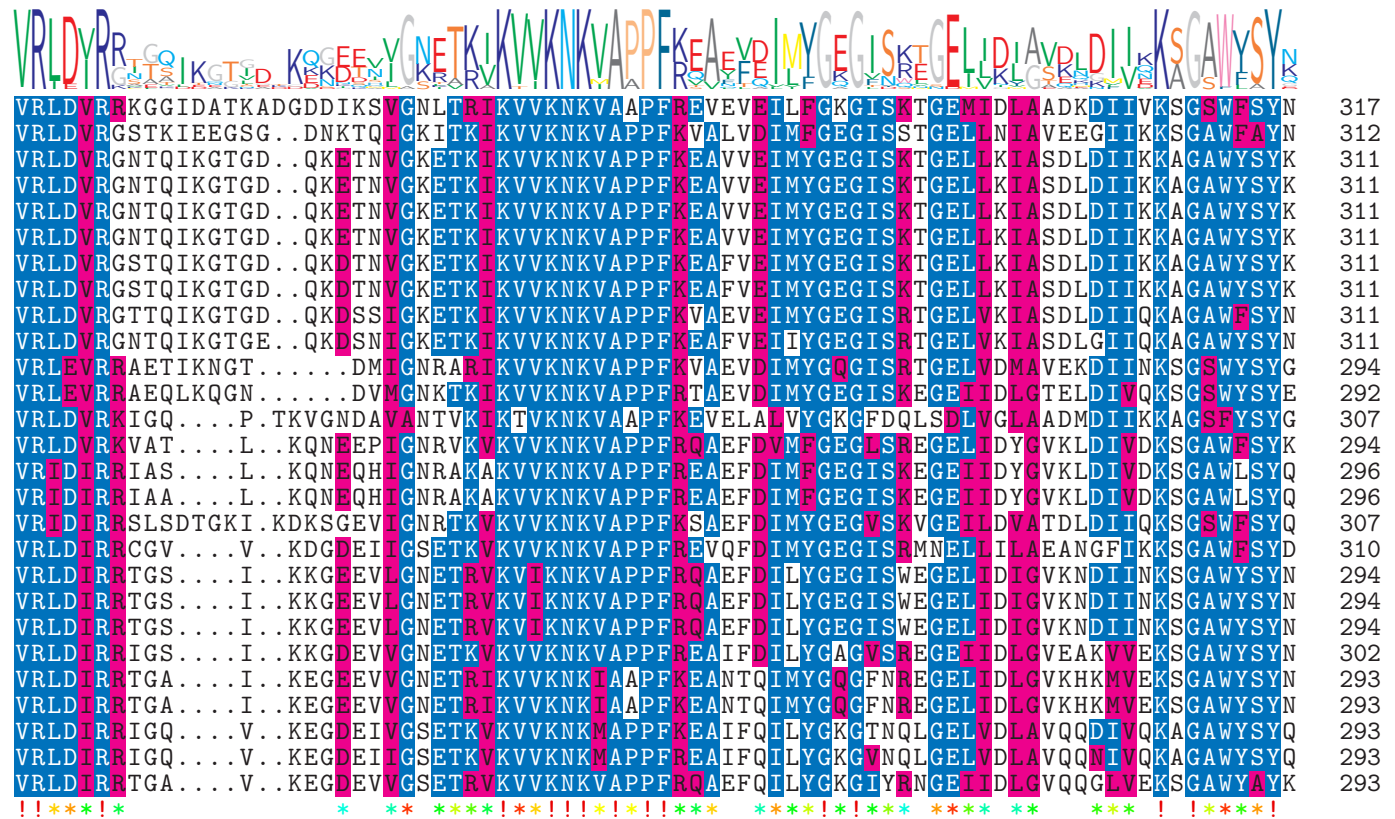
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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|                                             |                                                                                   |     |
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| NTDB id 338774 EQZ96 RS04265 WP 010370496.1 | GEKIGQGKVNIRWLEDPEHKAIYDDVYNQVREAYIGSHDGADGSADDNDTS.....ADNVDDIELEIDEN..          | 383 |
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGAEKAKNYLKE..HQDVDFDEIDHKVRAAHGLLDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED...  | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGSSENAKKYLAE..HPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELE | 383 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGSSENAKKYLAE..HPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELE | 383 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGSSENAKKYLAE..HPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELE | 383 |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGSSENAKKYLAE..HPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELE | 383 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGSSENAKKYLAD..NPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDLE  | 379 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGSSENAKKYLAD..NPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDLE  | 379 |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGSSENAKKYLAD..HPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLDNIE       | 375 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGSSENAKKFLAD..NPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIE   | 380 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQGRENAKNYLAD..HEDVEDEVRLKVRVQYGLISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....      | 355 |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGQGSRENAKQFLKE..NKDIMLMIQEIREHYGLDNNGVVQQAEETQEEL.EFE.E.....                  | 348 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQGKEKTIAYIAE..RPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEA.....EA.....               | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGQGSRENAKFLKE..NPEIADDEITKAIQNSMGIEGMI.....SGSEDDE.....GEE.....               | 343 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGQGSRENAKALLKE..DKALADEITLKIKEISGSNEEI.....MPLPDEP.....LEEME.....             | 347 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGQGSRENAKALLKE..DKALADEITLKIKEISGSNEEI.....MPLPDEP.....LEEME.....             | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGQGRDTVKELIKD..NPELAELELEAKIREKLQAK.....                                      | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQGKNNAVKWLKE..NPEIADKLEQEIRNTLASNPNS.....VLKATASDS.....NDESDFVEEFSEEE        | 371 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQGGKDNVRVWLKE..NPEISDEIDAKIRALNGVEMHI.....TEGTQDETD.....GERPEE..             | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQGGKDNVRVWLKE..NPEISDEIDAKIRALNGVEMHI.....TEGTQDETD.....GERPEE..             | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQGGKDNVRVWLKE..NPEISDEIDAKIRALNGVEMHI.....TEGTQDETD.....GERPEE..             | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQGRDNCREFLRE..NAELAREIENKVREHLGVTPMG....AV.TLAEV.....EED.....                | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQGGKANACKYLKE..NPEIAKTLDKKLREMLLNPNEM.....QLIAETSSA.....ADDVEFGAVPEEF        | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQGGKANACKYLKE..NPEIAKTLDKKLREMLLNPNEM.....QLIAETSSA.....ADDVEFGAVPEEF        | 354 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQGGKNNVIRYFEE..NNQIAEEIERNIREQLLTGTN.....GAVQ.I.ED.....EEEPD..LLLES..        | 349 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQGGKNNVIRYLEE..NPQISTEIEAVIREQLLTKASD.....QTAA.HDET.....EEEPD..LLLES..       | 349 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQGGKANAAKYLEE..NPEIGQEIEQQIRAKLLVTSAN.....TKATPVAED.....LADAD..I.....        | 347 |
| consensus                                   | ***!!*!***** ** * *** ** ** ** *                                                  |     |

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|                                             |       |     |
|---------------------------------------------|-------|-----|
| NTDB id 338774 EQZ96 RS04265 WP 010370496.1 | ..... | 383 |
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| NTDB id 499 SM12261 RS08315 WP 078228268.1  | IEIEE | 384 |
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| consensus                                   |       |     |

-  non conserved
-  similar
-  ≥ 50% conserved