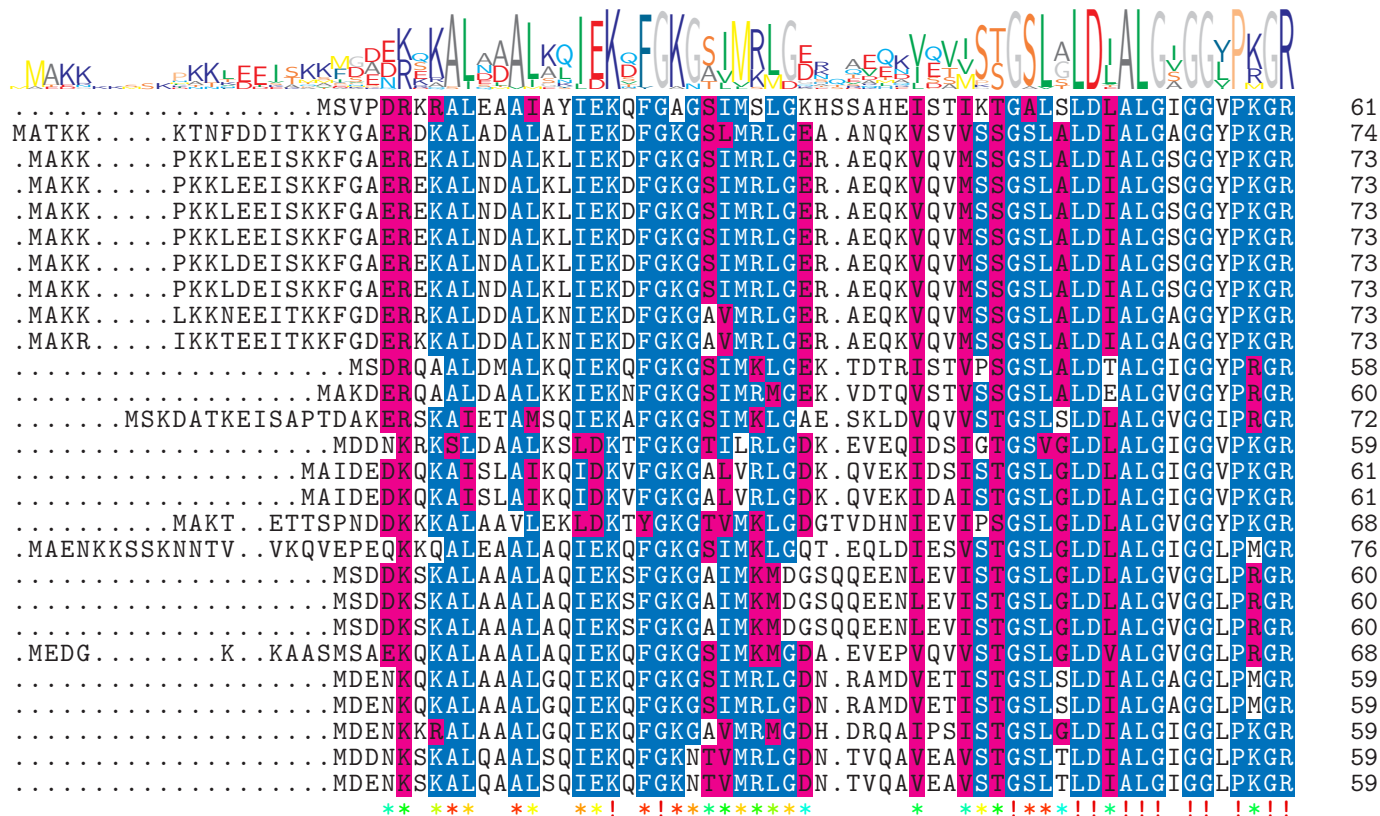


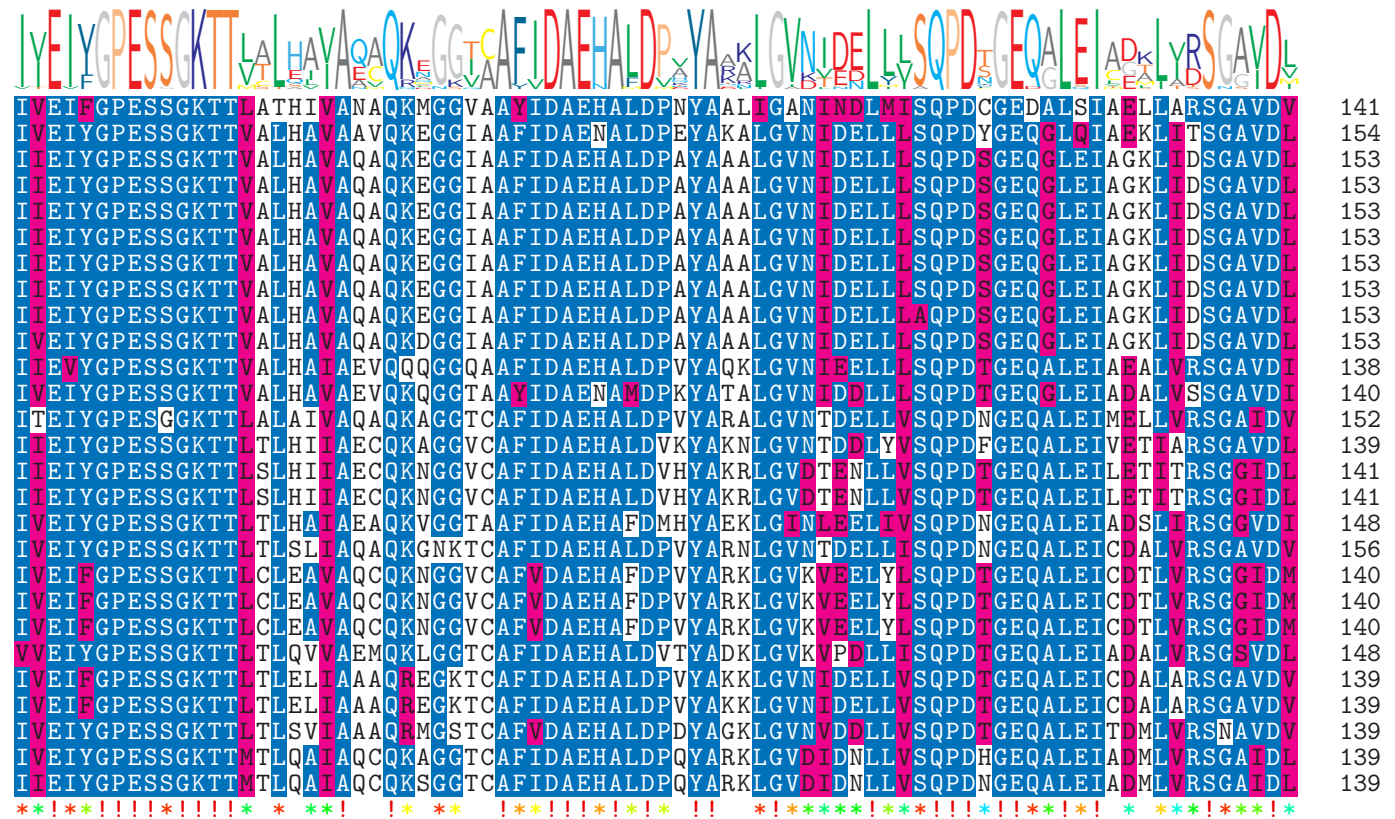
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NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

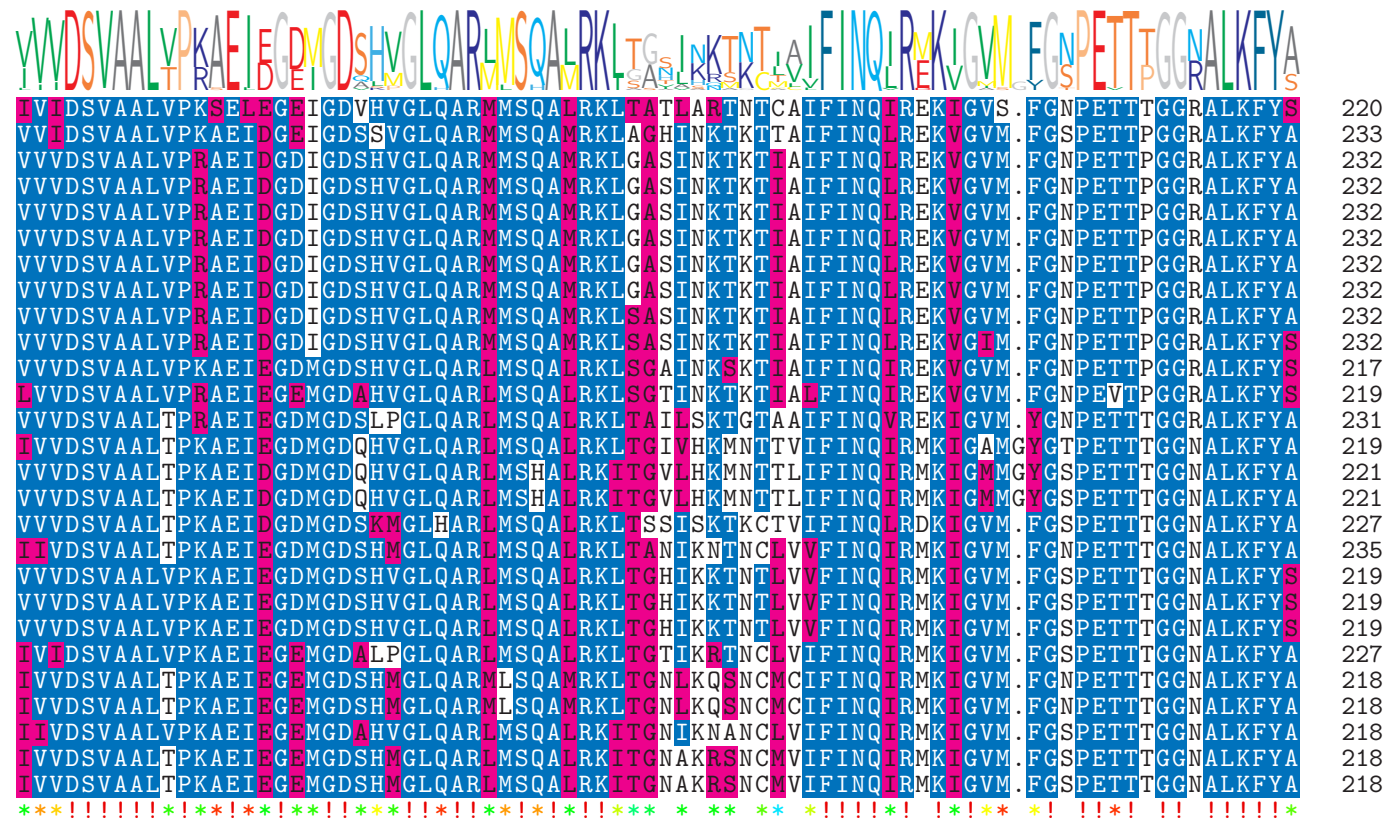
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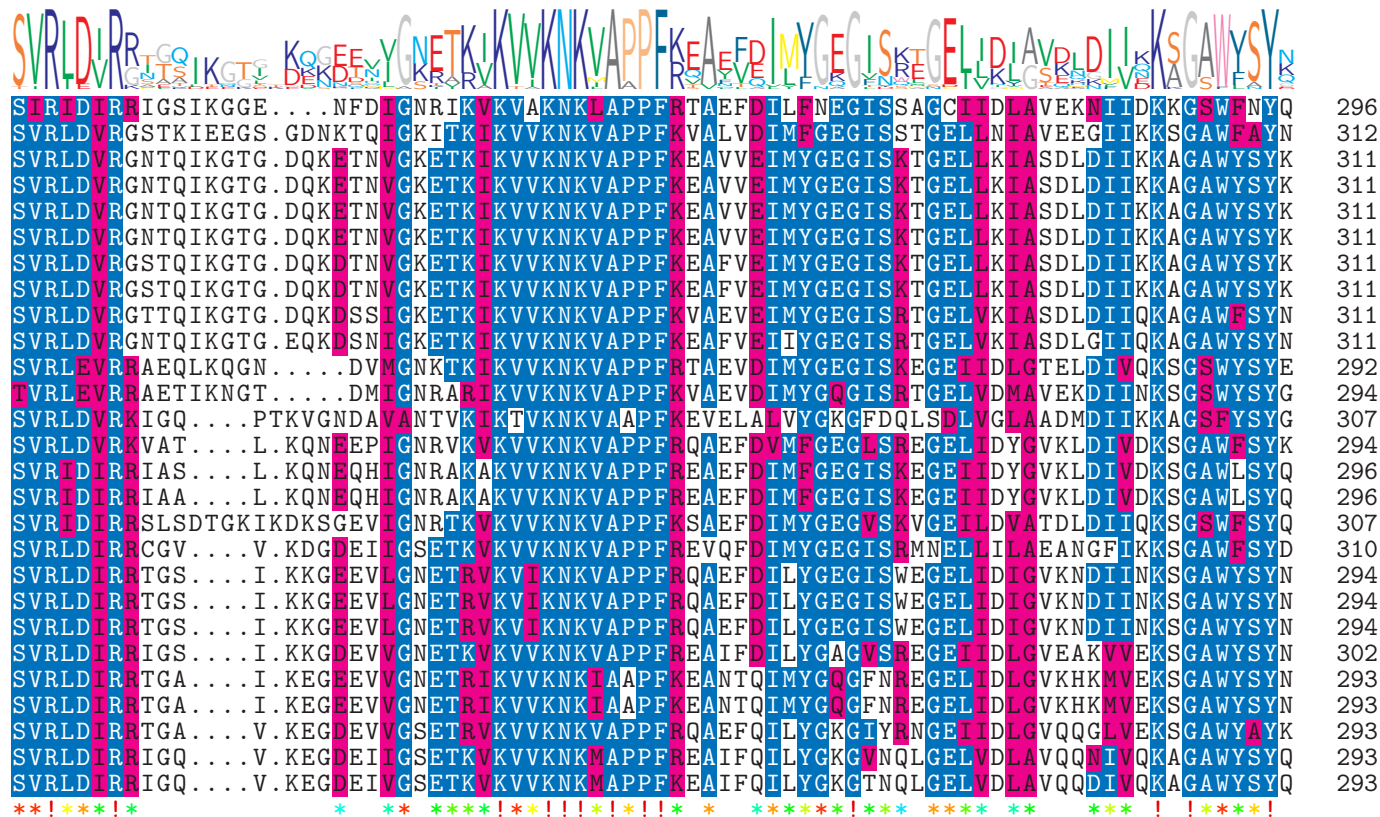
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consensus

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| NTDB id 202345 BKC02 RS03525 WP 010725291.1 | DRKIGQGREAVEREELKRNKEIFHELEERRIYESVQASQVPAAACVDAESREV..AE...AAK.....              | 352 |
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGAEKAKNYLKEHQDVFDDEIDHKVRAAHGLLDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED....   | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIE | 385 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGSSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDLEIE  | 381 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGSSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDLEIE  | 381 |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGSSENAKKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIE      | 377 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGSSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE   | 382 |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGQGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAETQEEL.EFE.E.....                   | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQGGRENAKNYLADHEDVEDEVRLKVRAAAYGISDVPPEEDLPTTEDE.QI.NILPD DST.....EE.....     | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAE..A.....                   | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGQGGRENSKAFLENKEPIADEITKAIQNSMGI EGM I....SGSEDDE..GE..E.....                 | 343 |
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| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGQGGRENAKALLKEDKALADEITLKI KESIGSNEEI....MPLPDEP..LE..EME.....                | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGQGRD TVKELTKDNPELAEELEAKIREKLQAK.....                                        | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSND..ESDV EEFSEEEL.....       | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGT.....Q..DET DGERPEE.....          | 348 |
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| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGT.....Q..DET DGERPEE.....          | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG....AV.TLAE EVEE..D.....                   | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQGGKANACKY LKENPEIAKTL DKKLREMLLN PENM....QLIAETSSAAD..DVEFGAVPEEF.....      | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQGGKANACKY LKENPEIAKTL DKKLREMLLN PENM....QLIAETSSAAD..DVEFGAVPEEF.....      | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQGGKANA A KYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLA..DADI.....              | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEE..EPDLL..ES.....           | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN....GAVQ.I.EDEE..EPDLL..LES.....          | 349 |
| consensus                                   | ***!!!!***** ** ***** ***** ** ** *                                               |     |

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|-----------|-------------------------------------|-----|-----|--|
|           |                                     |     | IEE |  |
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| NTDB id   | 1074 ABD1 RS10195 WP 000344167.1    | ... | 349 |  |
| consensus |                                     |     |     |  |

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