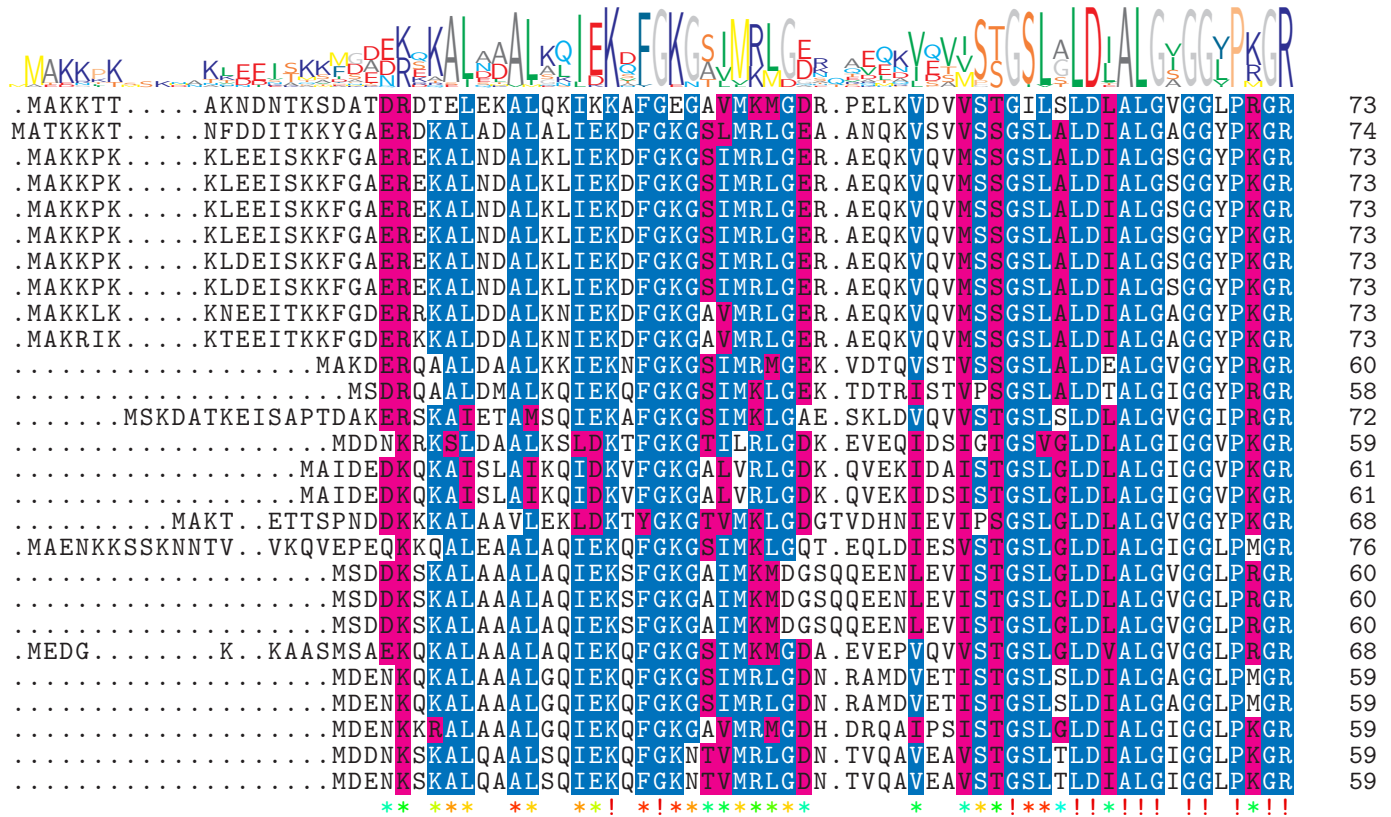


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NTDB id 194 SPR RS08825 WP 001085462.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

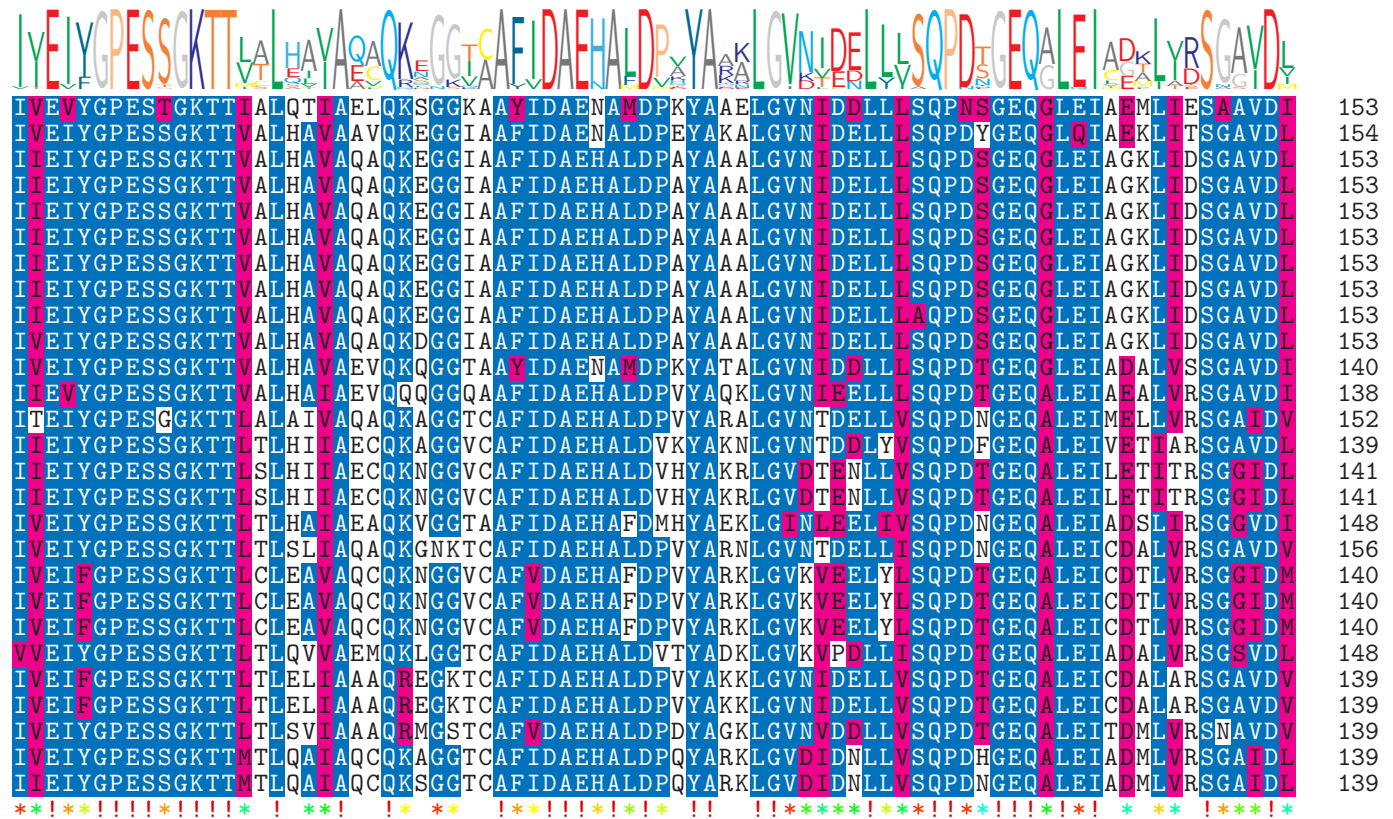
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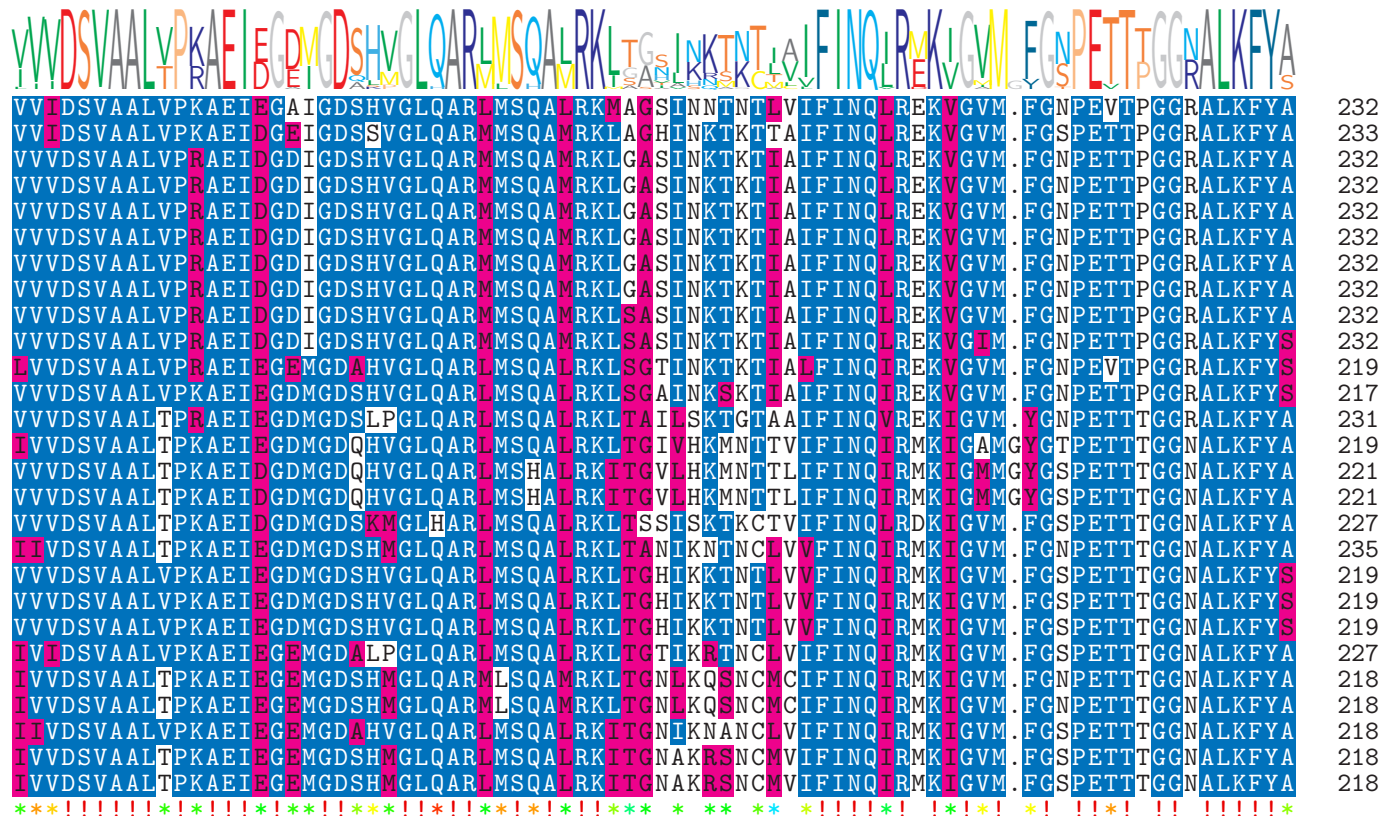
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consensus

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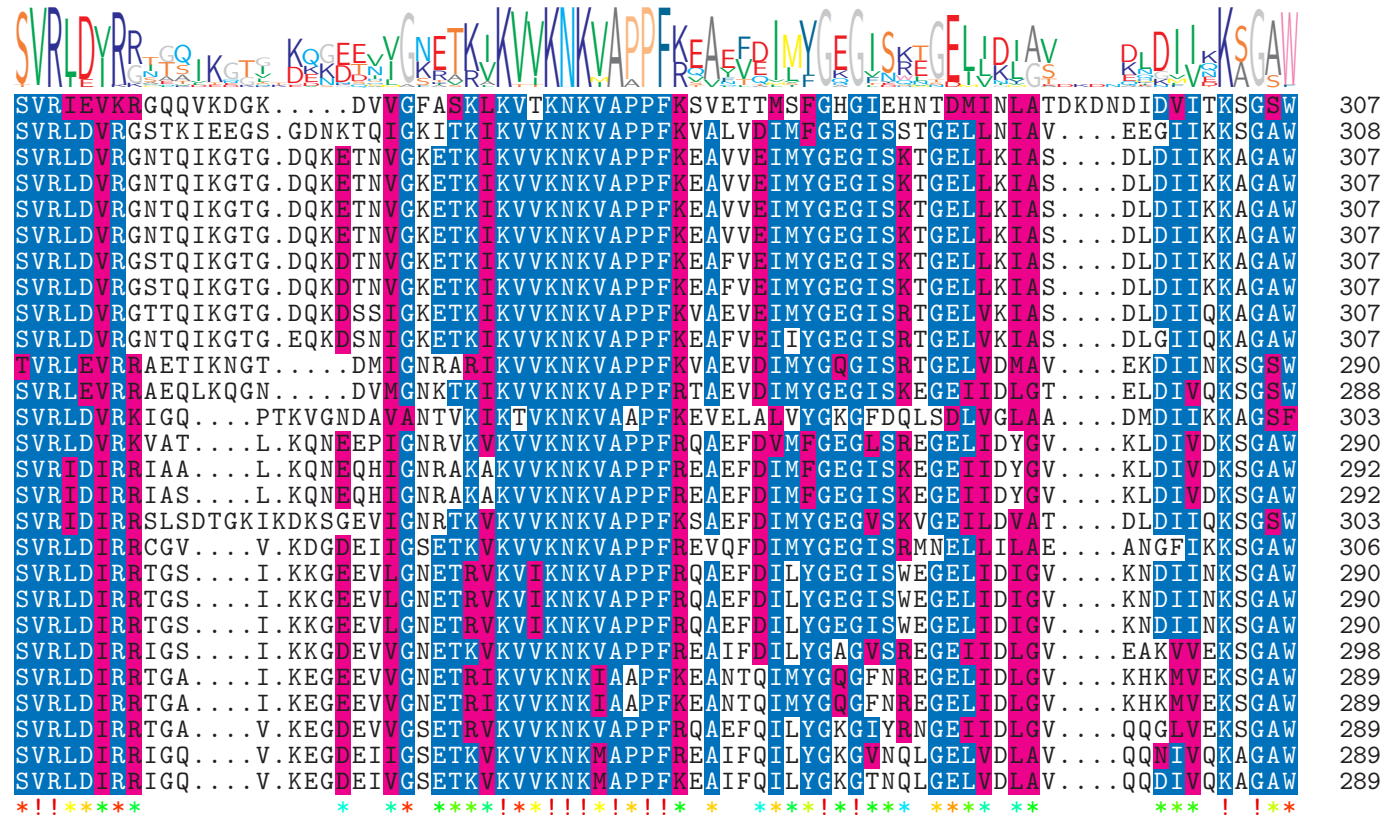
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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|                                              |                                                                                   |     |
|----------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1022494 V8V89 RS09560 WP 003567844.1 | YNYGKERIGQGGLVNASHYLDEHPEISKEIEEKIREQVAPKKPEETDEKQDDKKDDQASADKKTEKTTTTDTEKKADKKDD | 387 |
| NTDB id 600 KW2 RS01765 WP 011675413.1       | FAYNDEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHCLDDSEVAETEEETTASKTAKAKKEEKAVETEEIELE.LED     | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1     | YSYKDEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLD.LGD  | 380 |
| NTDB id 228 SPD RS09265 WP 001085462.1       | YSYKDEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLD.LGD  | 380 |
| NTDB id 194 SPR RS08825 WP 001085462.1       | YSYKDEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLD.LGD  | 380 |
| NTDB id 159 SP RS09750 WP 001085462.1        | YSYKDEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLD.LGD  | 380 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1   | YSYKDEKIGQGSSENAKKYLADNPEIFDEIDHQVVRVQFCIDGEEIAES....KKDE....AAQVDS..VNEEVTLD.LGD | 376 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1   | YSYKDEKIGQGSSENAKKYLADNPEVFAEIDHQVVRVQFCIDGEEAAES....KKDE....VAQVDS..VNEEVTLD.LGD | 376 |
| NTDB id 453 Spy49 1753c ACI62003.1           | FSYNGEKIGQGSSENAKKYLADHPQLFDEIDRKVVRVKFCLLEESEESAMAVASE.....E.....TDDLALD.LDN     | 372 |
| NTDB id 408 SMU RS09530 WP 002262392.1       | YSYNGEKIGQGSSENAKKFLADNPEIFDDIDHKVVRVQYCHIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLE.LDD  | 377 |
| NTDB id 625 LCA RS02525 WP 011374196.1       | YSYGSEKIGQGSSENAKKYLADHEDVEDEVRLKVRAYGSDVPEEDLPTTEDE.QI.NILPDDST.....EE.....      | 355 |
| NTDB id 115 BSU 16940 NP 389576.2            | YSYEEERIGQGSSENAKKQLKENKDIMLMIQEQTREHYCLDNNGVVQQAEETQEEL.EFE.E.....               | 348 |
| NTDB id 1313 DR RS12030 WP 010888966.1       | YSYGDERIGQGSSENAKKYLAERPEMEQEIRDRVMAATRAGNAGEAPALAPAPAAPEAAEA.....                | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1          | FSYKDKKIGQGSSENAKKYLAERPEIADEITKAIQNSMCTEGMI.....SGSEDDE..GEE.....                | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1      | LSYQDKKIGQGSSENAKKALLKEDKALADEITLKIRESICSNEEI....MPLPDEP..LEEME.....              | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1     | LSYQDKKIGQGSSENAKKALLKEDKALADEITLKIRESICSNEEI....MPLPDEP..LEEME.....              | 347 |
| NTDB id 1334 RA0C RS04870 WP 004918236.1     | FSYQDTKIGQGRDTPVKELTKDNPEIAELEAKIREKLQAK.....                                     | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1    | FSYDGTKIGQGSSENAKKVWLKENPEIADKLEQEIRNTLASNPNS....VLKATASDSNDESVDVEE..FSEEEL.....  | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1     | YSYNGAKIGQSKDNVRVWLKENPEISDEIDAKIRALNCVEMHI....TEGT.....QDETdge..RPEE.....        | 348 |
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| NTDB id 1427 RS RS02760 WP 011000510.1       | YSYNGERIGQGRDNCREELRENAELAREIENKVRHLGVTPMG....AV.TLAEVEED.....                    | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1  | YSYNGDKIGQGSSENAKKYLLKENPEIAKTLDKKLREMLLPENM....QLIAETSSAADDVEFGA..VPEEF.....     | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1    | YSYNGDKIGQGSSENAKKYLLKENPEIAKTLDKKLREMLLPENM....QLIAETSSAADDVEFGA..VPEEF.....     | 354 |
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| NTDB id 1022 ACIAD RS06390 WP 004925639.1    | YSYQGNKIGQGSSENNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEEEPDLL....ES.....      | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1     | YSYQGNKIGQGSSENNVIRYFEENQIAEIEIERNIREQLLTTGTN....GAVQ.I.EDEEEPDLL....LES.....     | 349 |
| consensus                                    | ***!***!!!******* * *** **** * * *                                                |     |

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|                                              |            |         |     |
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| NTDB id 453 Spy49 1753c ACI62003.1           | GIEIED.... |         | 378 |
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| consensus                                    |            |         |     |

- non conserved
- similar
- ≥ 50% conserved