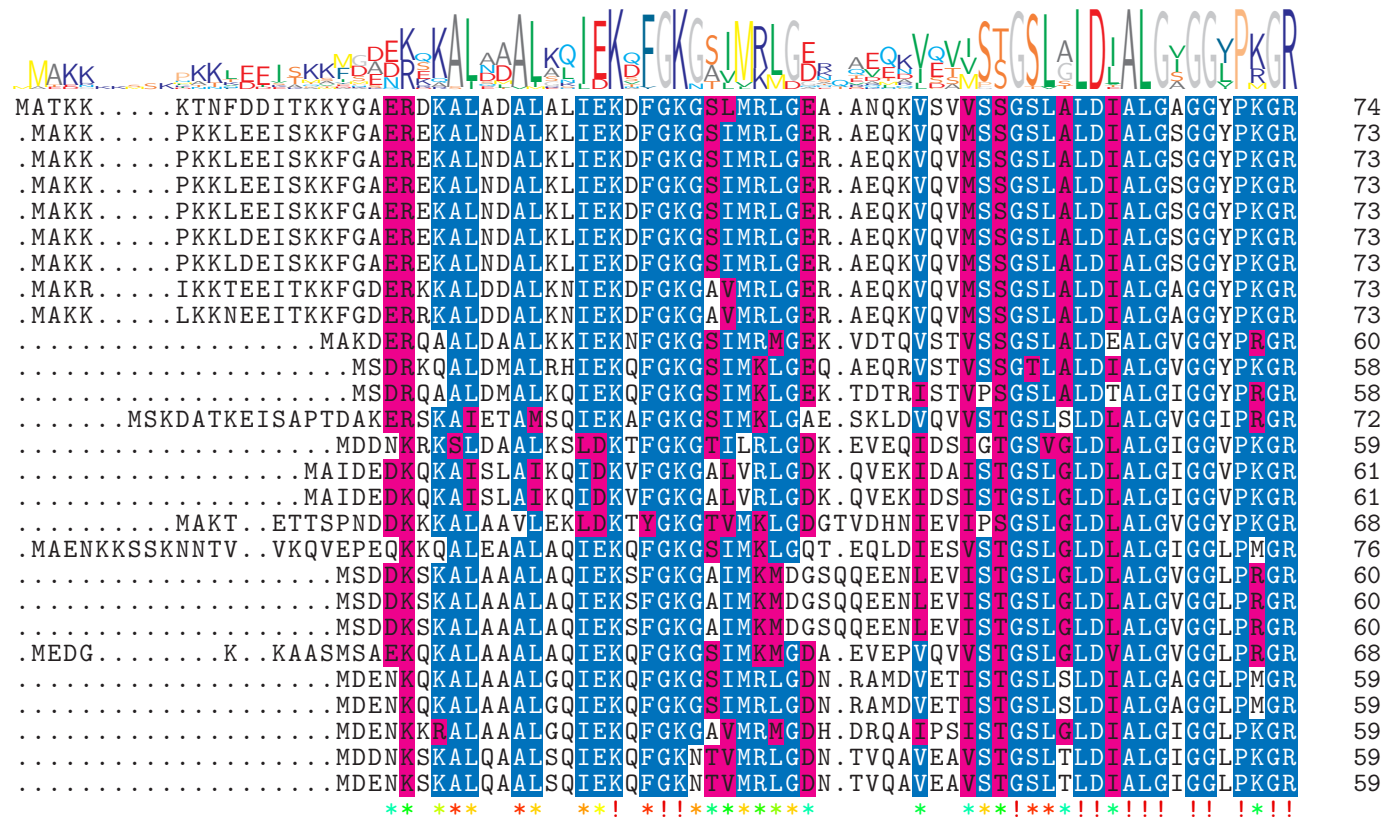


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NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
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consensus

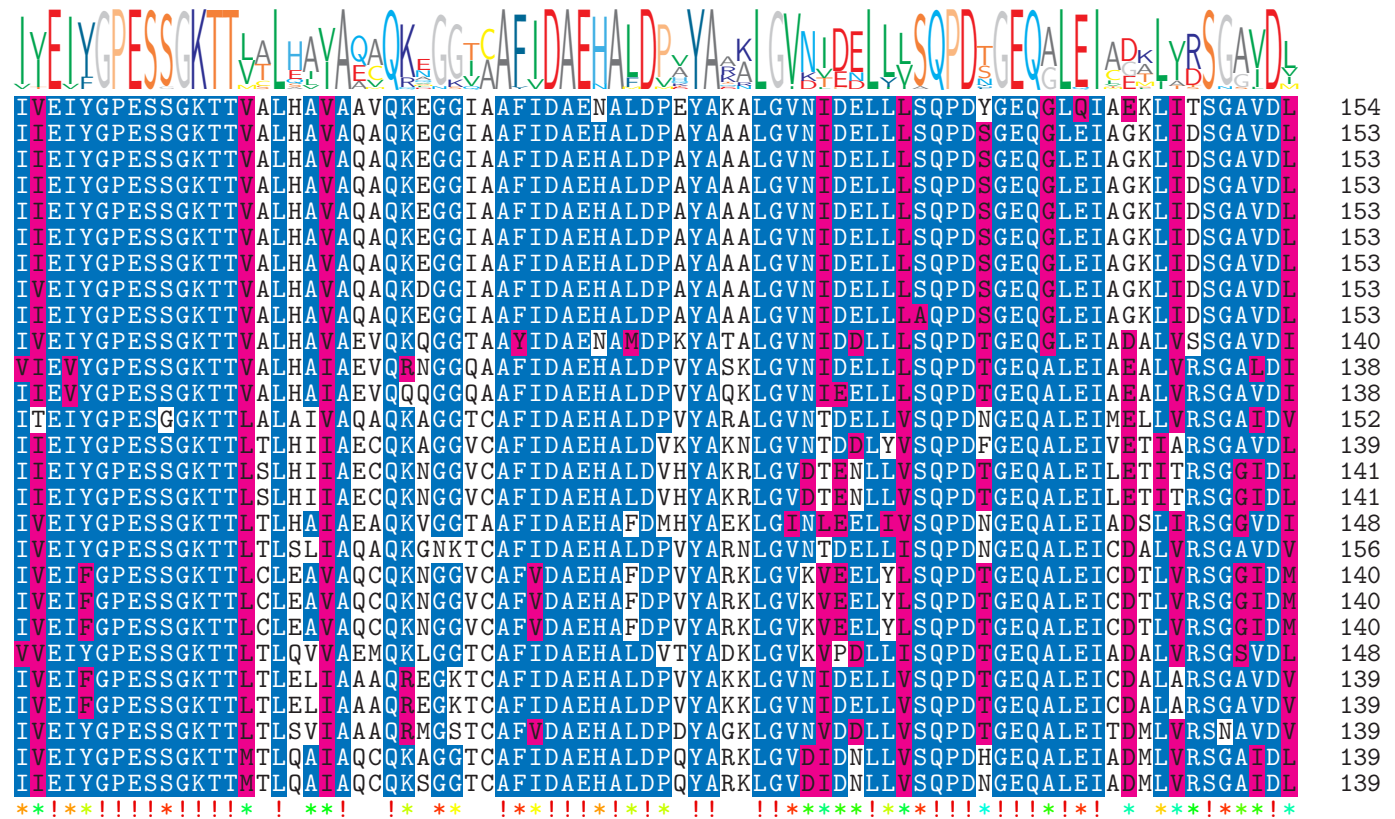
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consensus

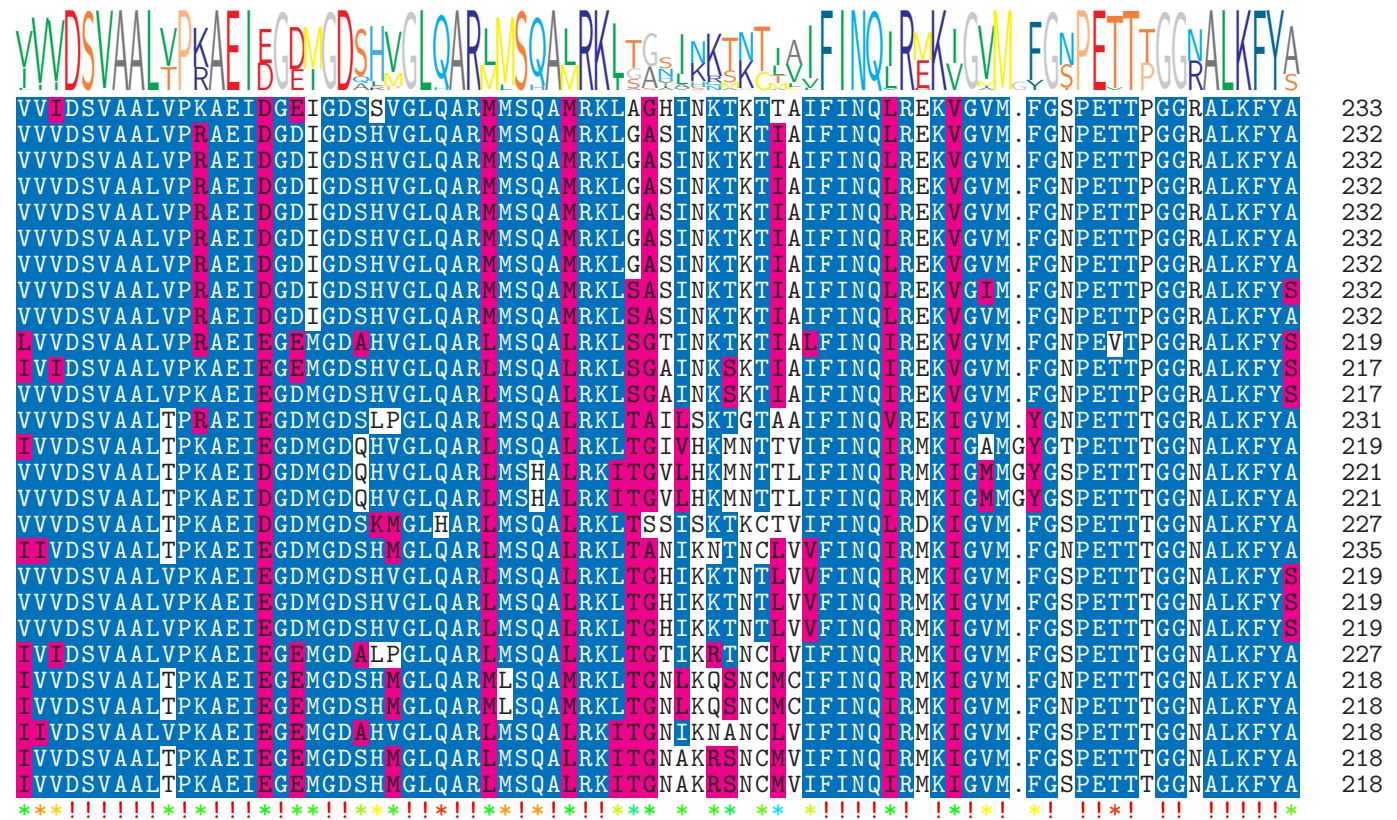
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consensus

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logo

|                                             |                          |                          |                      |                     |                  |                 |                  |     |
|---------------------------------------------|--------------------------|--------------------------|----------------------|---------------------|------------------|-----------------|------------------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | SVRLDVRGSTKIEEGS.GDNKTQ  | IGKITKIKVVKNKVAPPFKEA    | VALVDIMFGEGISSTGELIN | IAVEEGI             | IKKSGAWFAYN      | 312             |                  |     |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | SVRLDVRGNTQIKGTG.DQKETN  | VGKETKIKVVKNKVAPPFKEA    | AVVEIMYEGEGISKTGELL  | KIASDL              | DIKKAGAWYSYK     | 311             |                  |     |
| NTDB id 228 SPD RS09265 WP 001085462.1      | SVRLDVRGNTQIKGTG.DQKETN  | VGKETKIKVVKNKVAPPFKEA    | AVVEIMYEGEGISKTGELL  | KIASDL              | DIKKAGAWYSYK     | 311             |                  |     |
| NTDB id 194 SPR RS08825 WP 001085462.1      | SVRLDVRGNTQIKGTG.DQKETN  | VGKETKIKVVKNKVAPPFKEA    | AVVEIMYEGEGISKTGELL  | KIASDL              | DIKKAGAWYSYK     | 311             |                  |     |
| NTDB id 159 SP RS09750 WP 001085462.1       | SVRLDVRGNTQIKGTG.DQKETN  | VGKETKIKVVKNKVAPPFKEA    | AVVEIMYEGEGISKTGELL  | KIASDL              | DIKKAGAWYSYK     | 311             |                  |     |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | SVRLDVRGSTQIKGTG.DQKDTN  | VGKETKIKVVKNKVAPPFKEA    | FAVEIMYEGEGISKTGELL  | KIASDL              | DIKKAGAWYSYK     | 311             |                  |     |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | SVRLDVRGSTQIKGTG.DQKDTN  | VGKETKIKVVKNKVAPPFKEA    | FAVEIMYEGEGISKTGELL  | KIASDL              | DIKKAGAWYSYK     | 311             |                  |     |
| NTDB id 408 SMU RS09530 WP 002262392.1      | SVRLDVRGNTQIKGTG.EQKDSN  | IGKETKIKVVKNKVAPPFKEA    | FAVEIITYGEGISRTGEL   | VKIASDL             | GIIQKAGAWYSYN    | 311             |                  |     |
| NTDB id 453 Spy49 1753c ACI62003.1          | SVRLDVRGTTQIKGTG.DQKDSN  | IGKETKIKVVKNKVAPPFKEA    | FAVEIMYEGEGISRTGEL   | VKIASDL             | DIQKAGAWFSYN     | 311             |                  |     |
| NTDB id 625 LCA RS02525 WP 011374196.1      | TVRLEVRRRAETIKNGT.....DM | IGNRARIKVVKNKVAPPFKEA    | VAEVDIMYGGGISRTGEL   | VDMAVEK             | DIINKSGSWYSYG    | 294             |                  |     |
| NTDB id 21982 ABC RS11465 WP 011247042.1    | SVRLEVRRRAEALKQGN.....EI | VGNRTKIKVVKNKVAPPFR      | LAEVDIMYEGEGISREGS   | MLDIASEL            | DIVEKSGAWYSYK    | 292             |                  |     |
| NTDB id 115 BSU 16940 NP 389576.2           | SVRLEVRRRAEQLKQGN.....DV | MGNKTKIKVVKNKVAPPFR      | TAEVDIMYEGEGISKEGE   | IIDLGT              | ELDIVQKSGSWYSYE  | 292             |                  |     |
| NTDB id 1313 DR RS12030 WP 010888966.1      | SVRLDVRKIGQ....PTKVGND   | AVANTVKIKTVKNKVAAPFKEA   | VELALVYGKGF          | QDLSDLV             | GLAADMDI         | IKKAGSFYSYG     | 307              |     |
| NTDB id 1245 Cj1673c YP 002345041.1         | SVRLDVRKVAT....L.KQNEEP  | IGNRVKVVKNKVAPPFRQAE     | FDMFGEGLSREGE        | LIDYG               | VKLDIVDKSGAWFSYK | 294             |                  |     |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | SVRIDIRRIAA....L.KQNEQH  | IGNRAKAKVVKNKVAPPFR      | EAEFDIMFGEGISKEGE    | IIDYG               | VKLDIVDKSGAWLSYQ | 296             |                  |     |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | SVRIDIRRIAS....L.KQNEQH  | IGNRAKAKVVKNKVAPPFR      | EAEFDIMFGEGISKEGE    | IIDYG               | VKLDIVDKSGAWLSYQ | 296             |                  |     |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | SVRIDIRRLSDTGKIKDKSGEV   | IGNRTKVVKNKVAPPFKSAE     | FDIMYEGEVSKVGE       | ILDVAT              | DLDIQKSGSWFSYQ   | 307             |                  |     |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | SVRLDIRRCGV....V.KDGD    | DEIGSETKVVKNKVAPPFR      | EVQFDIMYEGEGISRM     | NELLILA             | ANGFIKKSGAWFSYD  | 310             |                  |     |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | SVRLDIRRTGS....I.KKGE    | EEVLGNETRVKVIKNKVAPPFR   | QAEFDILY             | GEGISWEGELIDIG      | VKNDIINKSGAWYSYN | 294             |                  |     |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | SVRLDIRRTGS....I.KKGE    | EEVLGNETRVKVIKNKVAPPFR   | QAEFDILY             | GEGISWEGELIDIG      | VKNDIINKSGAWYSYN | 294             |                  |     |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | SVRLDIRRTGS....I.KKGE    | EEVLGNETRVKVIKNKVAPPFR   | QAEFDILY             | GEGISWEGELIDIG      | VKNDIINKSGAWYSYN | 294             |                  |     |
| NTDB id 1427 RS RS02760 WP 011000510.1      | SVRLDIRRIGS....I.KKGE    | DEVVGNETKVVKNKVAPPFR     | EAFIDILY             | GAGVSREGEIIDL       | GV               | EAKVVEKSGAWYSYN | 302              |     |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | SVRLDIRRTGA....I.KEGE    | EEVVGNETRIKVVKNKIA       | APFKEANTQIMYG        | QGFN                | REGELIDL         | GV              | VKHKMVEKSGAWYSYN | 293 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | SVRLDIRRTGA....I.KEGE    | EEVVGNETRIKVVKNKIA       | APFKEANTQIMYG        | QGFN                | REGELIDL         | GV              | VKHKMVEKSGAWYSYN | 293 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | SVRLDIRRTGA....V.KEGE    | DEVVGSETRVVKNKVAPPFR     | QAEFQILY             | GKGIYR              | NGEIIDL          | GV              | QGLVEKSGAWYAYK   | 293 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | SVRLDIRRIGQ....V.KEGE    | DEIVGSETKVVKNKMAPPFR     | EAFQILY              | GKGVNQL             | GELVDLAV         | QQ              | NIVQKAGAWYSYQ    | 293 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | SVRLDIRRIGQ....V.KEGE    | DEIVGSETKVVKNKMAPPFR     | EAFQILY              | GKGTNQL             | GELVDLAV         | QQ              | DIVQKAGAWYSYQ    | 293 |
| consensus                                   | *!!**!* *                | * ** *****!*****!*****!* | *                    | *****!***** ***** * | ***** ! !*****!  |                 |                  |     |

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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
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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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| NTDB id 269 KZH43 RS08665 WP 001085462.1    | IEE | 388 |  |
| NTDB id 228 SPD RS09265 WP 001085462.1      | IEE | 388 |  |
| NTDB id 194 SPR RS08825 WP 001085462.1      | IEE | 388 |  |
| NTDB id 159 SP RS09750 WP 001085462.1       | IEE | 388 |  |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | IEE | 384 |  |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | IEE | 384 |  |
| NTDB id 408 SMU RS09530 WP 002262392.1      | D.. | 383 |  |
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| consensus                                   |     |     |  |

-  non conserved
-  similar
-  ≥ 50% conserved