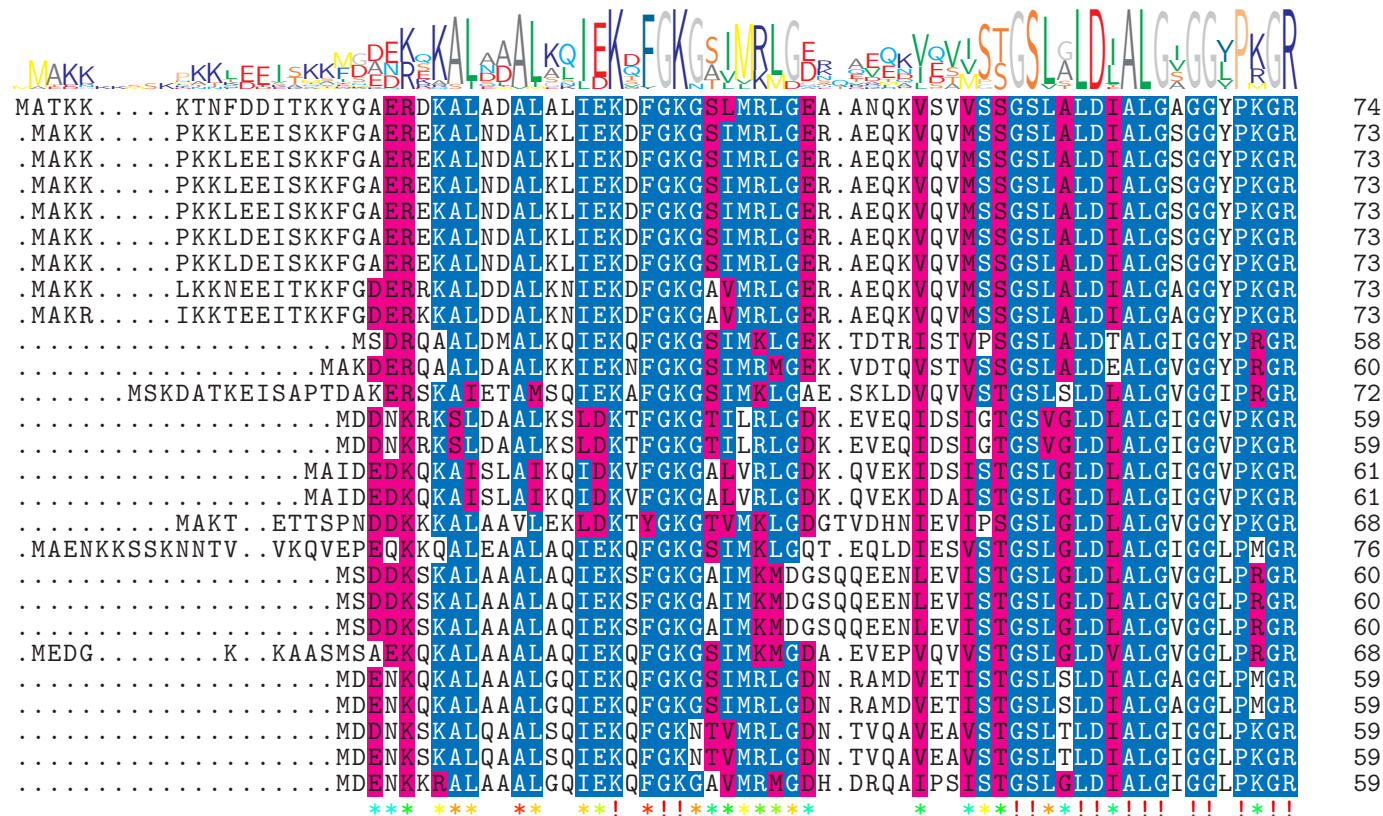


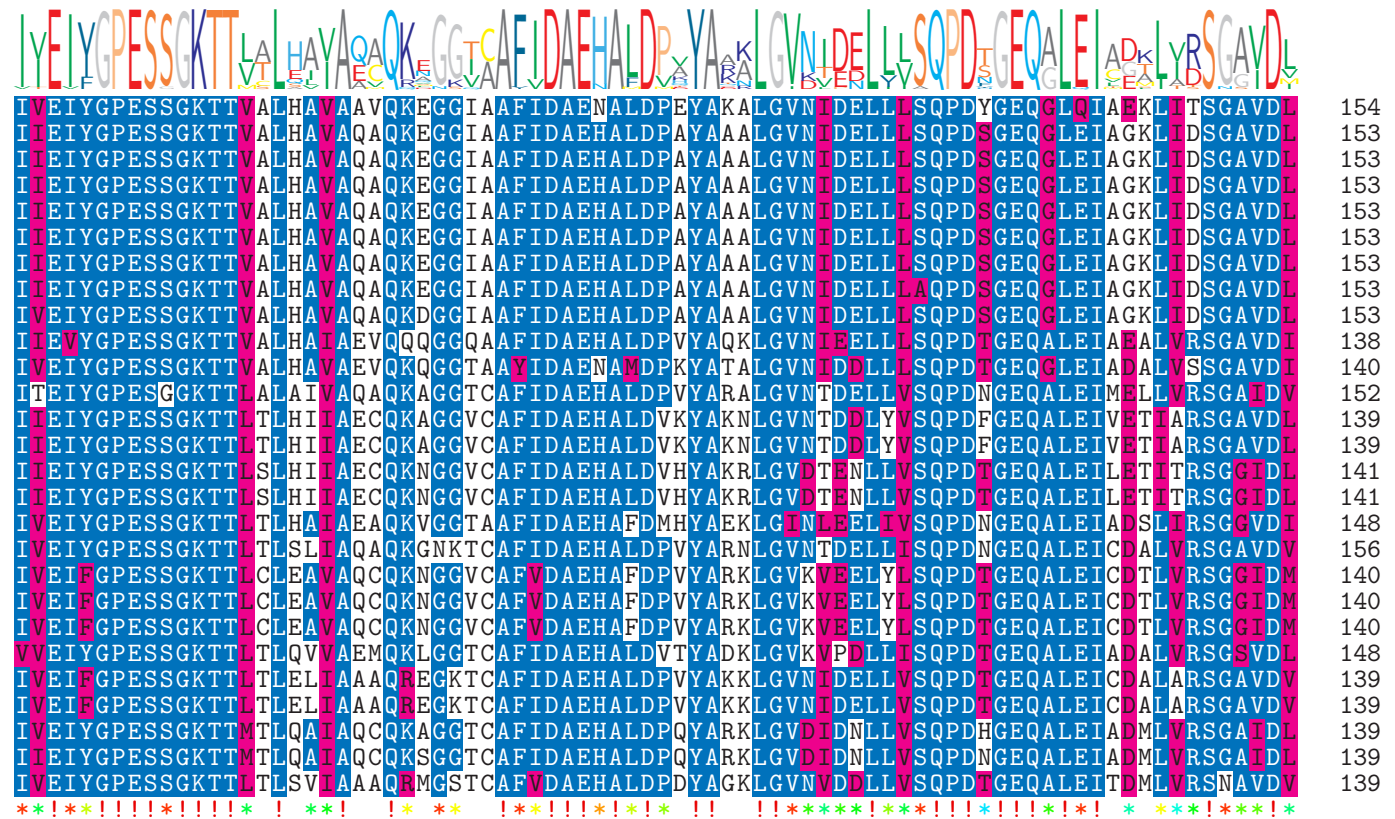
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consensus



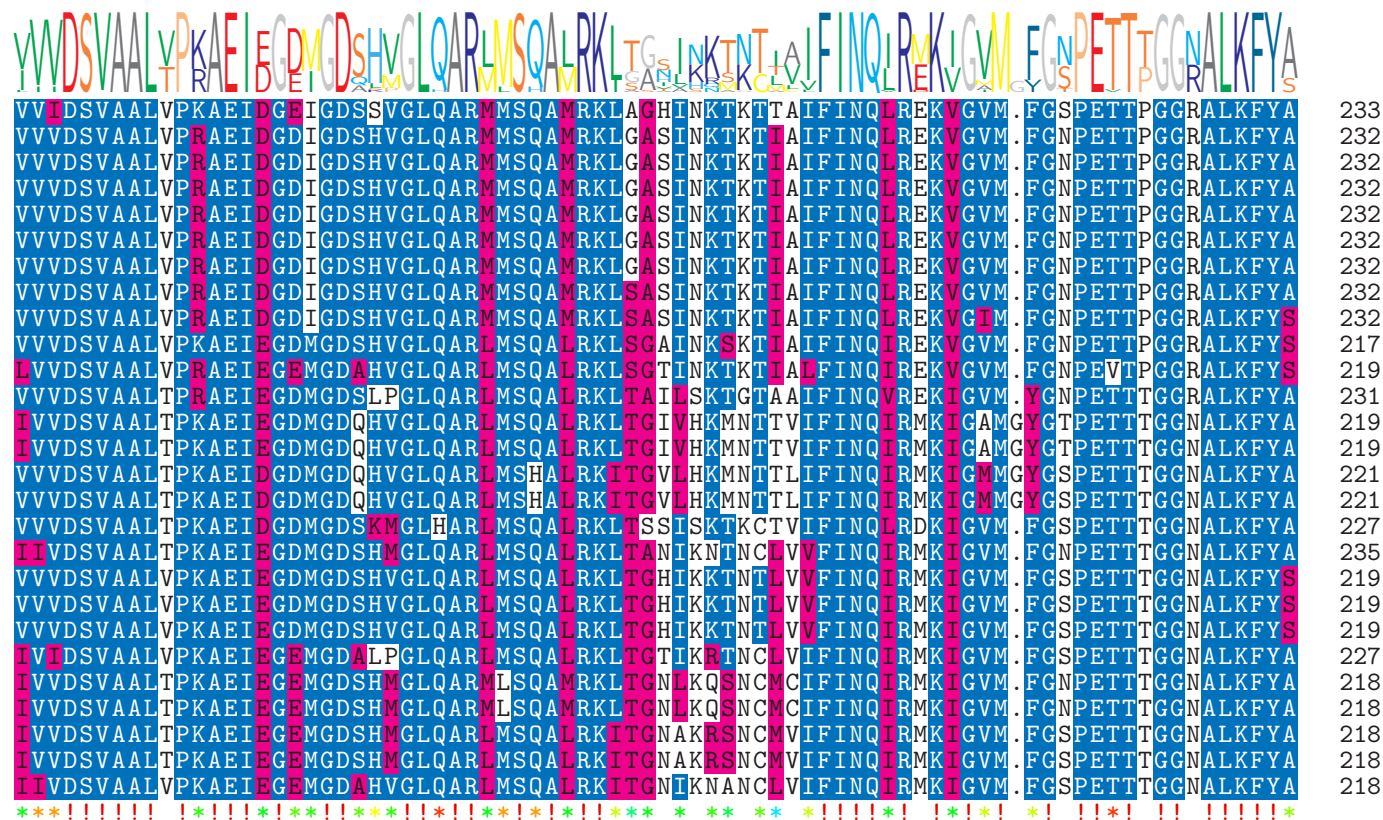
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consensus



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|                                             |                          |                       |          |               |              |           |                |                   |     |   |              |       |   |     |         |
|---------------------------------------------|--------------------------|-----------------------|----------|---------------|--------------|-----------|----------------|-------------------|-----|---|--------------|-------|---|-----|---------|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | SVRLDVRGSTKIEEGS.GDNKTQ  | IGKITKIKVVKNKVAPPFK   | VALVDIMF | FGEGISSTGELIN | IAVEEGITIKKS | GAWFAYN   | 312            |                   |     |   |              |       |   |     |         |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | SVRLDVRGNTQIKGTG.DQKETN  | VGKETKIKVVKNKVAPPFK   | EAUV     | EIMY          | GEGISKTGEL   | LKIASDLDI | IKKAGAWYSYK    | 311               |     |   |              |       |   |     |         |
| NTDB id 228 SPD RS09265 WP 001085462.1      | SVRLDVRGNTQIKGTG.DQKETN  | VGKETKIKVVKNKVAPPFK   | EAUV     | EIMY          | GEGISKTGEL   | LKIASDLDI | IKKAGAWYSYK    | 311               |     |   |              |       |   |     |         |
| NTDB id 194 SPR RS08825 WP 001085462.1      | SVRLDVRGNTQIKGTG.DQKETN  | VGKETKIKVVKNKVAPPFK   | EAUV     | EIMY          | GEGISKTGEL   | LKIASDLDI | IKKAGAWYSYK    | 311               |     |   |              |       |   |     |         |
| NTDB id 159 SP RS09750 WP 001085462.1       | SVRLDVRGNTQIKGTG.DQKETN  | VGKETKIKVVKNKVAPPFK   | EAUV     | EIMY          | GEGISKTGEL   | LKIASDLDI | IKKAGAWYSYK    | 311               |     |   |              |       |   |     |         |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | SVRLDVRGSTQIKGTG.DQKDTN  | VGKETKIKVVKNKVAPPFK   | EAUV     | EIMY          | GEGISKTGEL   | LKIASDLDI | IKKAGAWYSYK    | 311               |     |   |              |       |   |     |         |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | SVRLDVRGSTQIKGTG.DQKDTN  | VGKETKIKVVKNKVAPPFK   | EAUV     | EIMY          | GEGISKTGEL   | LKIASDLDI | IKKAGAWYSYK    | 311               |     |   |              |       |   |     |         |
| NTDB id 453 Spy49 1753c ACI62003.1          | SVRLDVRGTTQIKGTG.DQKDSN  | IGKETKIKVVKNKVAPPFK   | VAEV     | EIMY          | GEGISRTGEL   | VKIASDLDI | IQKAGAWFSYN    | 311               |     |   |              |       |   |     |         |
| NTDB id 408 SMU RS09530 WP 002262392.1      | SVRLDVRGNTQIKGTG.EQKDSN  | IGKETKIKVVKNKVAPPFK   | EAUV     | EIMY          | GEGISRTGEL   | VKIASDLGI | IQKAGAWYSYN    | 311               |     |   |              |       |   |     |         |
| NTDB id 115 BSU 16940 NP 389576.2           | SVRLEVRRAEQLKQGN.....    | DVMGNKTKIKVVKNKVAPPFR | TAEVD    | EIMY          | GEGISKEGEI   | IDLGT     | ELDIVQKSGSWYSY | 292               |     |   |              |       |   |     |         |
| NTDB id 625 LCA RS02525 WP 011374196.1      | TVRLEVRRAETIKNGT.....    | DMIGNRARIKVVKNKVAPPFK | VAEV     | DIMY          | GEGISRTGEL   | VDMAVEKDI | INKSGSWYSY     | 294               |     |   |              |       |   |     |         |
| NTDB id 1313 DR RS12030 WP 010888966.1      | SVRLDVRKIGQ....PTKVGNDAA | NTVVKIKTVKNKVAAPFKE   | VELAL    | LVY           | GKGFDQLSD    | LVGLAADM  | DI             | IKKAGSFYSY        | 307 |   |              |       |   |     |         |
| NTDB id 45918 CJS3 RS08675 WP 002851424.1   | SVRLDVRKVAT....L.KQNEEP  | IGNRVKVKVVKNKVAPPFR   | QAEFD    | DVM           | FGEGLSREGEL  | IDYGVKLDI | VDKSGAWFSYK    | 294               |     |   |              |       |   |     |         |
| NTDB id 1245 Cj1673c YP 002345041.1         | SVRLDVRKVAT....L.KQNEEP  | IGNRVKVKVVKNKVAPPFR   | QAEFD    | DVM           | FGEGLSREGEL  | IDYGVKLDI | VDKSGAWFSYK    | 294               |     |   |              |       |   |     |         |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | SVRIDIRRIAS....L.KQNEEQH | IGNRAKAKVVKNKVAPPFR   | EAEFD    | DIMF          | GEGISKEGEI   | IDYGVKLDI | VDKSGAWLSYK    | 296               |     |   |              |       |   |     |         |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | SVRIDIRRIAA....L.KQNEEQH | IGNRAKAKVVKNKVAPPFR   | EAEFD    | DIMF          | GEGISKEGEI   | IDYGVKLDI | VDKSGAWLSYK    | 296               |     |   |              |       |   |     |         |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | SVRIDIRRLSDTGKIKDKSGEV   | IGNRTKVKVVKNKVAPPFK   | SAEFD    | DIMY          | GEGVSKVGEILD | VATDL     | DI             | IQKSGSWFSYK       | 307 |   |              |       |   |     |         |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | SVRLDIRRCGV....V.KDGEI   | IGSETKVKVVKNKVAPPFR   | EVQFD    | DIMY          | GEGISRMNELL  | ILAEANGFI | IKKSGAWFSYD    | 310               |     |   |              |       |   |     |         |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | SVRLDIRRTGS....I.KKGEV   | LGNETRVKVIKNKVAPPFR   | QAEFD    | DILY          | GEGISWEGEL   | IDIGVKN   | DI             | INKSGAWYSYN       | 294 |   |              |       |   |     |         |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | SVRLDIRRTGS....I.KKGEV   | LGNETRVKVIKNKVAPPFR   | QAEFD    | DILY          | GEGISWEGEL   | IDIGVKN   | DI             | INKSGAWYSYN       | 294 |   |              |       |   |     |         |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | SVRLDIRRTGS....I.KKGEV   | LGNETRVKVIKNKVAPPFR   | QAEFD    | DILY          | GEGISWEGEL   | IDIGVKN   | DI             | INKSGAWYSYN       | 294 |   |              |       |   |     |         |
| NTDB id 1427 RS RS02760 WP 011000510.1      | SVRLDIRRIGS....I.KKGEV   | GNETKVKVVKNKVAPPFR    | EAI      | FDILY         | GAGVSREGEI   | IDL       | GV             | EAKVVEKSGAWYSYN   | 302 |   |              |       |   |     |         |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | SVRLDIRRTGA....I.KEGEV   | VGNETRIKVVKNKIAAPFKE  | ANTQIMY  | GQGFNR        | EGELIDL      | GVKHKM    | V              | EKSGAWYSYN        | 293 |   |              |       |   |     |         |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | SVRLDIRRTGA....I.KEGEV   | VGNETRIKVVKNKIAAPFKE  | ANTQIMY  | GQGFNR        | EGELIDL      | GVKHKM    | V              | EKSGAWYSYN        | 293 |   |              |       |   |     |         |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | SVRLDIRRIGQ....V.KEGDEI  | IGSETKVKVVKNKMAPPFR   | EAI      | FIQILY        | GKGVNQLGEL   | VDLAVQQN  | IV             | QKAGAWYSYQ        | 293 |   |              |       |   |     |         |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | SVRLDIRRIGQ....V.KEGDEI  | IGSETKVKVVKNKMAPPFR   | EAI      | FIQILY        | GKGTNQLGEL   | VDLAVQQN  | IV             | QKAGAWYSYQ        | 293 |   |              |       |   |     |         |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | SVRLDIRRTGA....V.KEGDEV  | VGSETRVKVVKNKVAPPFR   | QAEFQI   | LYGKGI        | YRN          | GEIIDL    | GV             | VQGLVEKSGAWAYK    | 293 |   |              |       |   |     |         |
| consensus                                   | *!!**                    | !!*                   | *        | *             | *            | *         | *              | *****!!*!!*!!*!!* | *   | * | *****!!*!!** | ***** | * | *** | !!*!!** |

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NTDB id 600 KW2 RS01765 WP 011675413.1  
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NTDB id 228 SPD RS09265 WP 001085462.1  
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consensus



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| NTDB id 194 SPR RS08825 WP 001085462.1      | IEE | 388 |  |
| NTDB id 159 SP RS09750 WP 001085462.1       | IEE | 388 |  |
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| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | ... | 349 |  |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | ... | 347 |  |
| consensus                                   |     |     |  |

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