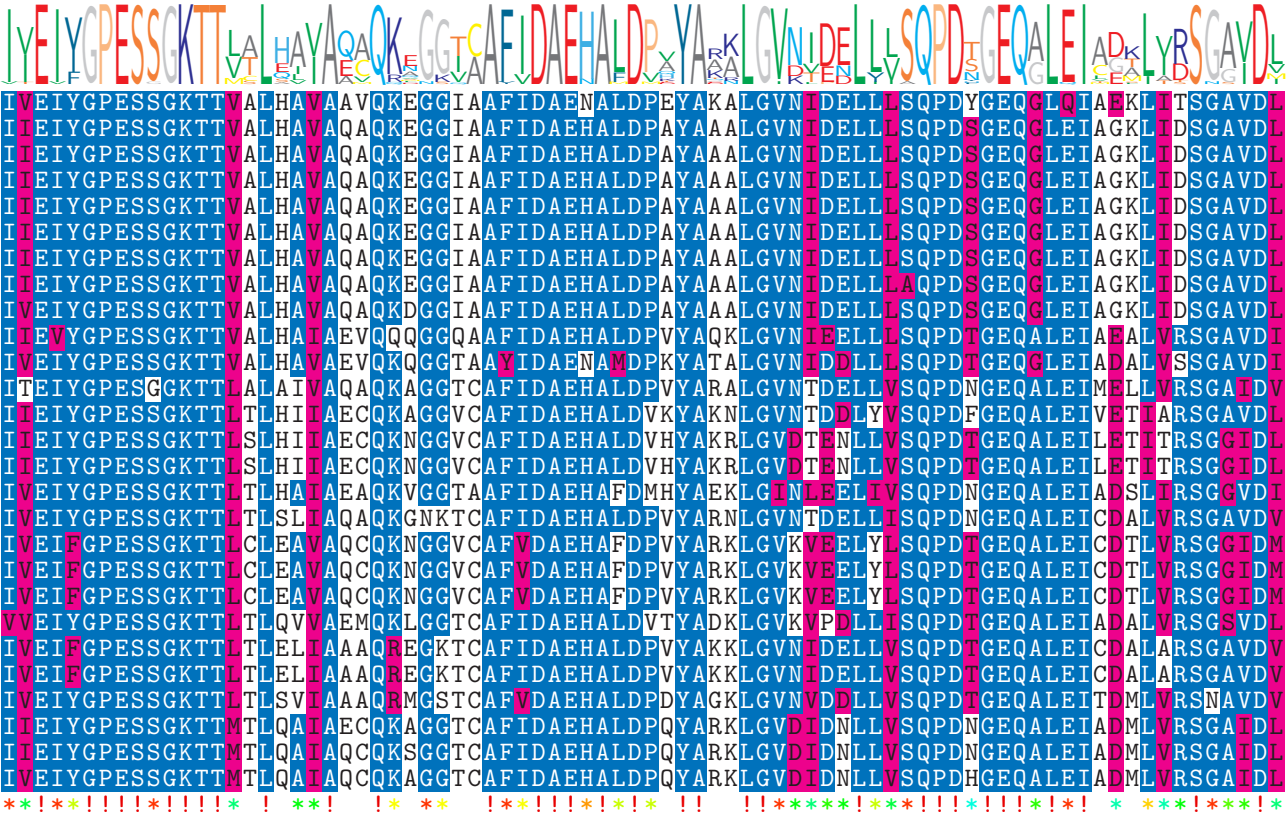


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| NTDB id 600 KW2 RS01765 WP 011675413.1      | MATKK....KTNFDDITKKYGA | ERDKALADALALIEKD  | FGKGSIMRLGEA       | .ANQKVS       | VSSGSLALD     | I       | ALGAGGY | PKGR | 74 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | .MAKK....PKKLEEISKKFGA | EREKALNDALKLIEKD  | FGKGSIMRLGER       | .AEQKVQ       | VMSGSLALD     | I       | ALGSGGY | PKGR | 73 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | .MAKK....PKKLEEISKKFGA | EREKALNDALKLIEKD  | FGKGSIMRLGER       | .AEQKVQ       | VMSGSLALD     | I       | ALGSGGY | PKGR | 73 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | .MAKK....PKKLEEISKKFGA | EREKALNDALKLIEKD  | FGKGSIMRLGER       | .AEQKVQ       | VMSGSLALD     | I       | ALGSGGY | PKGR | 73 |
| NTDB id 159 SP RS09750 WP 001085462.1       | .MAKK....PKKLEEISKKFGA | EREKALNDALKLIEKD  | FGKGSIMRLGER       | .AEQKVQ       | VMSGSLALD     | I       | ALGSGGY | PKGR | 73 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | .MAKK....PKKLDEISKKFGA | EREKALNDALKLIEKD  | FGKGSIMRLGER       | .AEQKVQ       | VMSGSLALD     | I       | ALGSGGY | PKGR | 73 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | .MAKK....PKKLDEISKKFGA | EREKALNDALKLIEKD  | FGKGSIMRLGER       | .AEQKVQ       | VMSGSLALD     | I       | ALGSGGY | PKGR | 73 |
| NTDB id 453 Spy49 1753c ACI62003.1          | .MAKK....LKKNEEITKKFG  | DERRKALDDALKNIEKD | FGKGAVMRLGER       | .AEQKVQ       | VMSGSLALD     | I       | ALGAGGY | PKGR | 73 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | .MAKR....IKKTEEITKKFG  | DERKKALDDALKNIEKD | FGKGAVMRLGER       | .AEQKVQ       | VMSGSLALD     | I       | ALGAGGY | PKGR | 73 |
| NTDB id 115 BSU 16940 NP 389576.2           | .....MSDRQAALDMALK     | QIEKQFGKGSIMKLGEK | .TDTR              | ISTVP         | SGSLALD       | T       | ALGIGGY | PRGR | 58 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | .....MAKDERQAALDAALKK  | IEKNFGKGSIMRMGEK  | .VDTQ              | VSTVSSGSLAL   | DEALGV        | GGYPRGR |         |      | 60 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | .....MSKDATKEISAPTD    | AKERSKATETAM      | SQIEKAFGKGSIMKLGAE | .SKLDV        | QVVSTGSLSLD   | I       | ALGVGGI | PRGR | 72 |
| NTDB id 1245 Cj1673c YP 002345041.1         | .....MDDNKRKSLDAALKS   | LDKTFGKGTILRLGDK  | .EVEQ              | IDSIGTGSVGLD  | I             | ALGIGGV | PKGR    |      | 59 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | .....MAIDEDKQKAI       | SLAIKQIDKVF       | FGKGALVRLGDK       | .QVEK         | IDAISTGSLGLD  | I       | ALGIGGV | PKGR | 61 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | .....MAIDEDKQKAI       | SLAIKQIDKVF       | FGKGALVRLGDK       | .QVEK         | IDSISTGSLGLD  | I       | ALGIGGV | PKGR | 61 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | .....MAKT..ETTS        | PNDDKKKALAAVLEK   | LDKTYGKGTVMKLG     | DGTVDH        | NIEVIPSGSLGLD | I       | ALGVGGY | PKGR | 68 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | .MAENKKSSKNNTV..VKQ    | VEPEQKKQALEAALA   | QIEKQFGKGSIMKLGQT  | .EQLD         | IESVSTGSLGLD  | I       | ALGIGGL | PMGR | 76 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | .....MSDDKSKALAAALA    | QIEKSFGKGAIMKMDGS | QREENLEVISTGSLGLD  | I             | ALGVGGL       | PRGR    |         |      | 60 |
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| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | .....MDENKQKALAAALG    | QIEKQFGKGSIMRLGDN | .RAMD              | VETISTGSLSLD  | I             | ALGAGGL | PMGR    |      | 59 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | .....MDENKQKALAAALG    | QIEKQFGKGSIMRLGDN | .RAMD              | VETISTGSLSLD  | I             | ALGAGGL | PMGR    |      | 59 |
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| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .....MDENKSKALQAALS    | QIEKQFGKNTVMRLGDN | .TVQ               | AVEAVSTGSLTLD | I             | ALGIGGL | PKGR    |      | 59 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | .....MDDNKSKALQAALS    | QIEKQFGKNTVMRLGDN | .TVQ               | AVEAVSTGSLTLD | I             | ALGIGGL | PKGR    |      | 59 |
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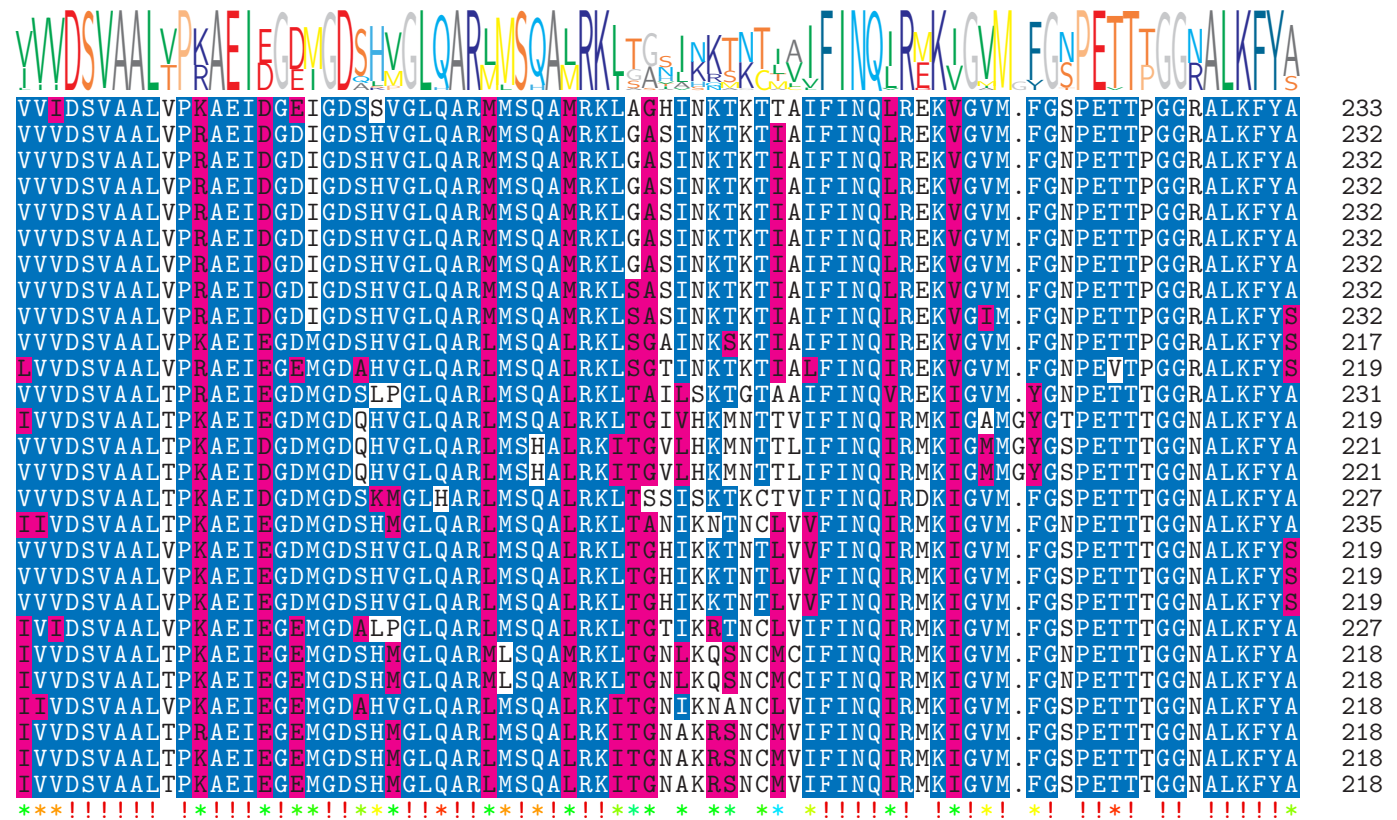


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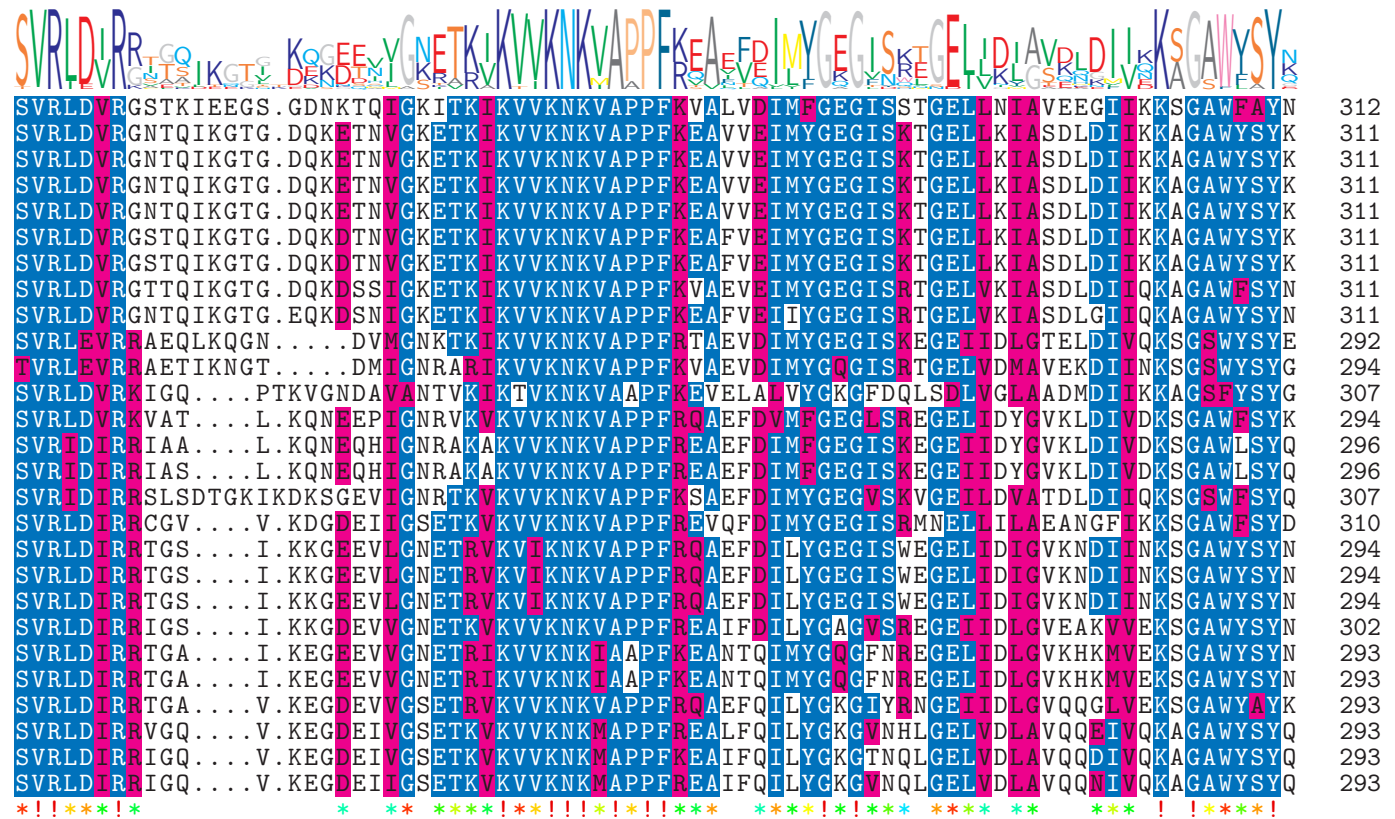
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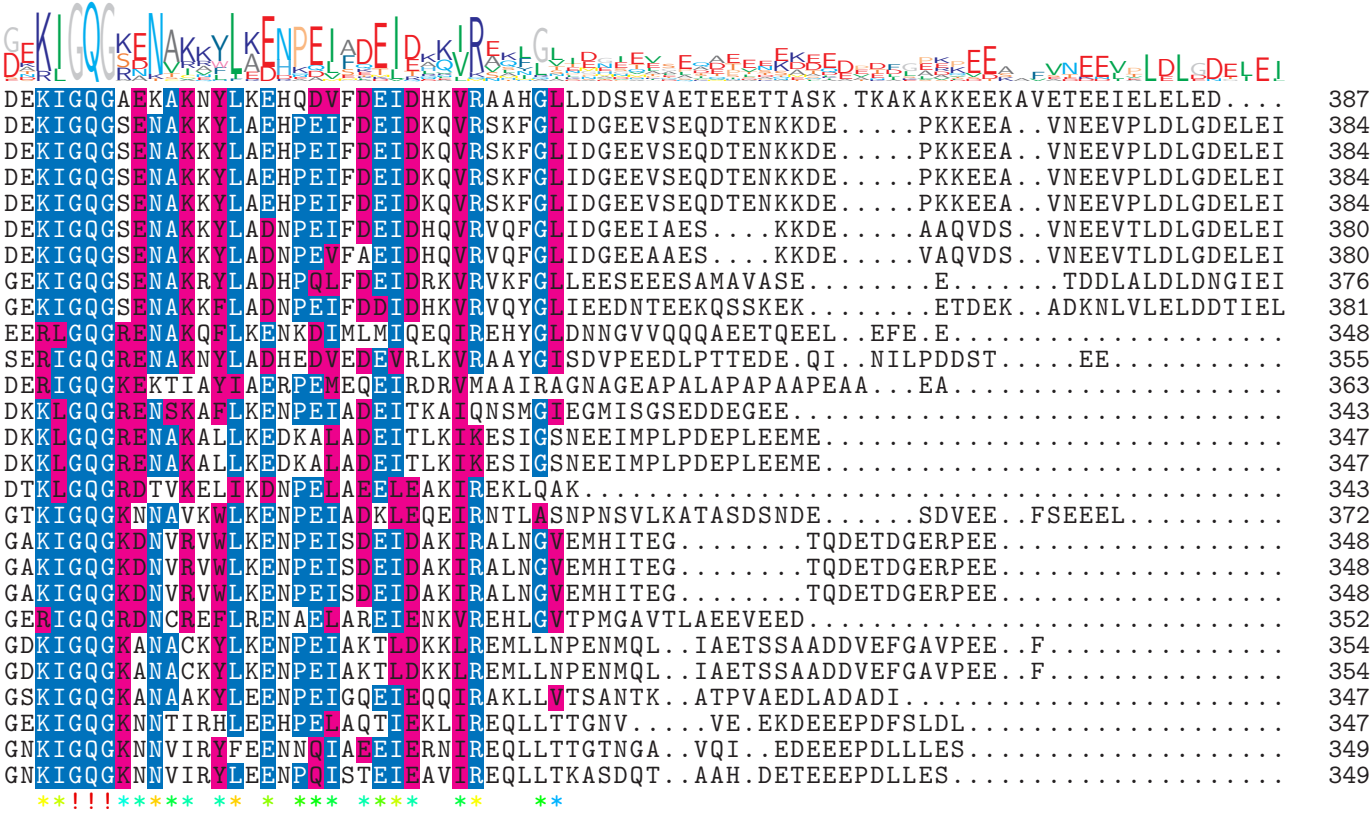
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| consensus                                   |      |      |     |

-  non conserved
-  similar
-  ≥ 50% conserved