

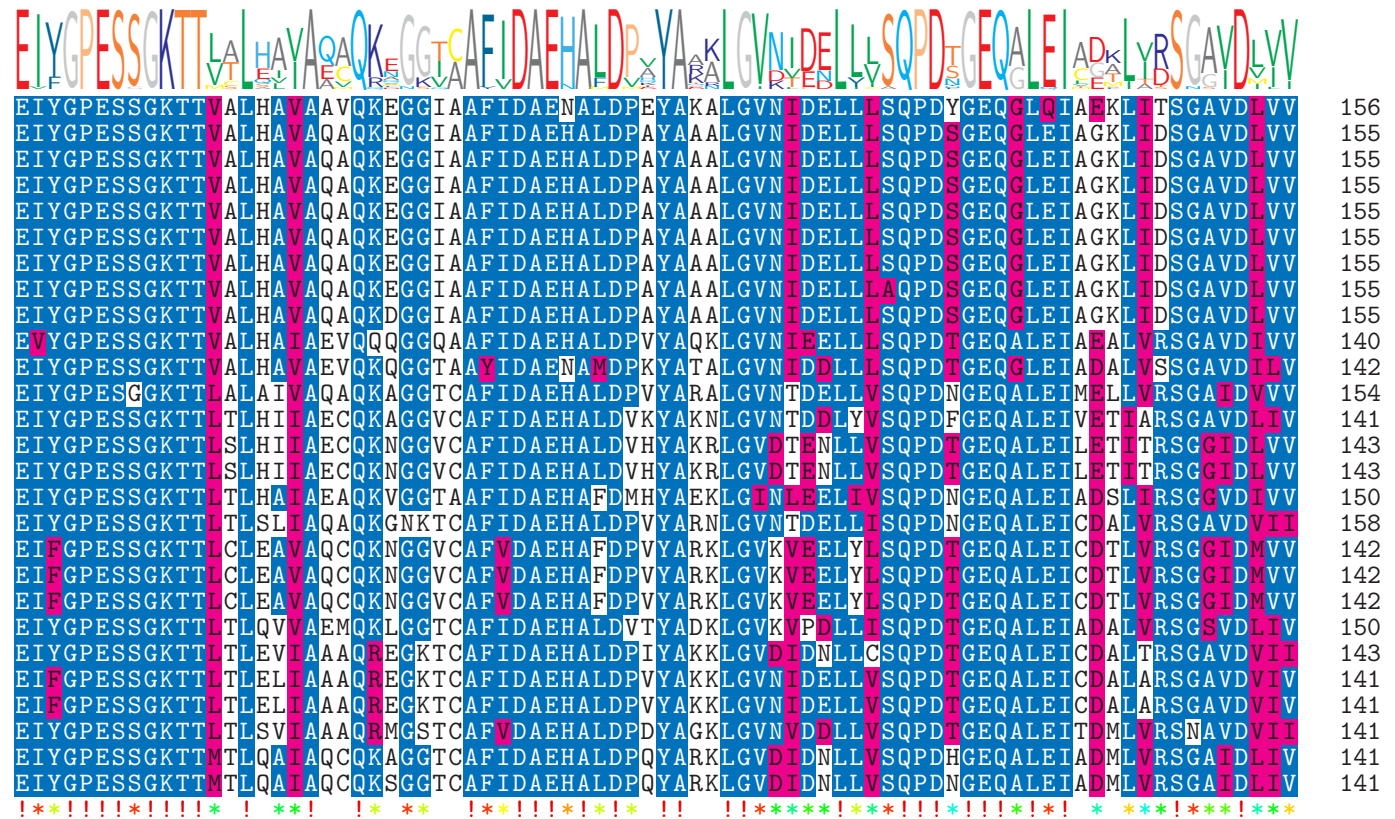
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| NTDB id 600 KW2 RS01765 WP 011675413.1      | MATKKK...TNFDDITKKYGA | ERDKALADALALIEKD     | FGKGSIMRLGEA       | .ANQKVS   | VSSGSLALD     | I            | ALGAGGY | PKGRIV       | 76 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | .MAKKP...KKLEEISKKFGA | EREKALNDALKLIEKD     | FGKGSIMRLGER       | .AEQKVQVM | SSGSLALD      | I            | ALGSGGY | PKGRII       | 75 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | .MAKKP...KKLEEISKKFGA | EREKALNDALKLIEKD     | FGKGSIMRLGER       | .AEQKVQVM | SSGSLALD      | I            | ALGSGGY | PKGRII       | 75 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | .MAKKP...KKLEEISKKFGA | EREKALNDALKLIEKD     | FGKGSIMRLGER       | .AEQKVQVM | SSGSLALD      | I            | ALGSGGY | PKGRII       | 75 |
| NTDB id 159 SP RS09750 WP 001085462.1       | .MAKKP...KKLEEISKKFGA | EREKALNDALKLIEKD     | FGKGSIMRLGER       | .AEQKVQVM | SSGSLALD      | I            | ALGSGGY | PKGRII       | 75 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | .MAKKP...KKLDEISKKFGA | EREKALNDALKLIEKD     | FGKGSIMRLGER       | .AEQKVQVM | SSGSLALD      | I            | ALGSGGY | PKGRII       | 75 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | .MAKKP...KKLDEISKKFGA | EREKALNDALKLIEKD     | FGKGSIMRLGER       | .AEQKVQVM | SSGSLALD      | I            | ALGSGGY | PKGRII       | 75 |
| NTDB id 453 Spy49 1753c ACI62003.1          | .MAKKL...KKNEEITKKFGD | ERRKALDDALKNIEKD     | FGKGAVMRLGER       | .AEQKVQVM | SSGSLALD      | I            | ALGAGGY | PKGRII       | 75 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | .MAKRI...KKTEEITKKFGD | ERRKALDDALKNIEKD     | FGKGAVMRLGER       | .AEQKVQVM | SSGSLALD      | I            | ALGAGGY | PKGRIV       | 75 |
| NTDB id 115 BSU 16940 NP 389576.2           | .....MS               | DRQAALDMALKQIEKQ     | FGKGSIMKLGEK       | .TDTR     | ISTVPSGSLALD  | T            | ALGIGGY | PRGRII       | 60 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | .....MAKD             | ERQAALDAALKKIEKN     | FGKGSIMRMGEK       | .VDTQVST  | VSSGSLALDE    | A            | LGVG    | GYPRGRIV     | 62 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | .MSKD....ATKEISAPTD   | AKERSKATETAM         | SQIEKAFGKGSIMKLGAE | .SKLDVQV  | VSTGSLSLDL    | A            | LGVG    | GIPRGRIT     | 74 |
| NTDB id 1245 Cj1673c YP 002345041.1         | .....MDDN             | KRKSALDAALKSLDKT     | FGKGTILRLGDK       | .EVEQ     | IDSIGTGSVGLDL | A            | LGIG    | GVPPKGRII    | 61 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | .....MAIDED           | DKQKALISLAIKQIDKV    | FGKGALVRLGDK       | .QVEK     | IDAISTGSLGLDL | A            | LGIG    | GVPPKGRII    | 63 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | .....MAIDED           | DKQKALISLAIKQIDKV    | FGKGALVRLGDK       | .QVEK     | IDSISTGSLGLDL | A            | LGIG    | GVPPKGRII    | 63 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | .....MAKTETTSPND      | DKKKALAAVLEKLDKT     | YGKGTVMKLG         | GTVDHNI   | EVIPSGSLGLDL  | A            | LGVG    | GYPPKGRII    | 70 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | .MAENKKSSKNNTVVKQ     | VEPEQKKQALEAALAQIEKQ | FGKGSIMKLGQT       | .EQLD     | IESVSTGSLGLDL | A            | LGIG    | GLPMGRIV     | 78 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | .....MSD              | DKSKALAAALAQIEKS     | FGKGAIMKMDGSQ      | QREEN     | LEVISTGSLGLDL | A            | LGVG    | GLPRGRIV     | 62 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | .....MSD              | DKSKALAAALAQIEKS     | FGKGAIMKMDGSQ      | QREEN     | LEVISTGSLGLDL | A            | LGVG    | GLPRGRIV     | 62 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | .....MSD              | DKSKALAAALAQIEKS     | FGKGAIMKMDGSQ      | QREEN     | LEVISTGSLGLDL | A            | LGVG    | GLPRGRIV     | 62 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | .MEDGK.....KAASMSA    | EKQKALAAALAQIEKQ     | FGKGSIMKM          | GDA       | .EVEP         | VQVVSTGSLGLD | V       | ALGVGGLPRGRV | 70 |
| NTDB id 96750 00995 RS05475 WP 037420979.1  | .....MKVDPN           | KEKALAAVLSQIEKQ      | FGKGSIMKLGED       | .RSMDVET  | ISTGSLSLD     | V            | ALGAG   | GLPMGRIV     | 63 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | .....MDEN             | KQKALAAALGQIEKQ      | FGKGSIMRLGDN       | .RAMDVET  | ISTGSLSLD     | I            | ALGAG   | GLPMGRIV     | 61 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | .....MDEN             | KQKALAAALGQIEKQ      | FGKGSIMRLGDN       | .RAMDVET  | ISTGSLSLD     | I            | ALGAG   | GLPMGRIV     | 61 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | .....MDEN             | KKRALAAALGQIEKQ      | FGKGAVMRMGDH       | .DRQA     | IPSISTGSLGLD  | I            | ALGIG   | GLPKGRIV     | 61 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | .....MDDN             | KSKALQAALSQIEKQ      | FGKNTVMRLGDN       | .TVQAVE   | AVSTGSLTLD    | I            | ALGIG   | GLPKGRIV     | 61 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .....MDEN             | KSKALQAALSQIEKQ      | FGKNTVMRLGDN       | .TVQAVE   | AVSTGSLTLD    | I            | ALGIG   | GLPKGRII     | 61 |
| consensus                                   |                       | *** **               | ***                | ***       | ***           | ***          | ***     | ***          |    |

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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
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NTDB id 499 SM12261 RS08315 WP 078228268.1
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consensus

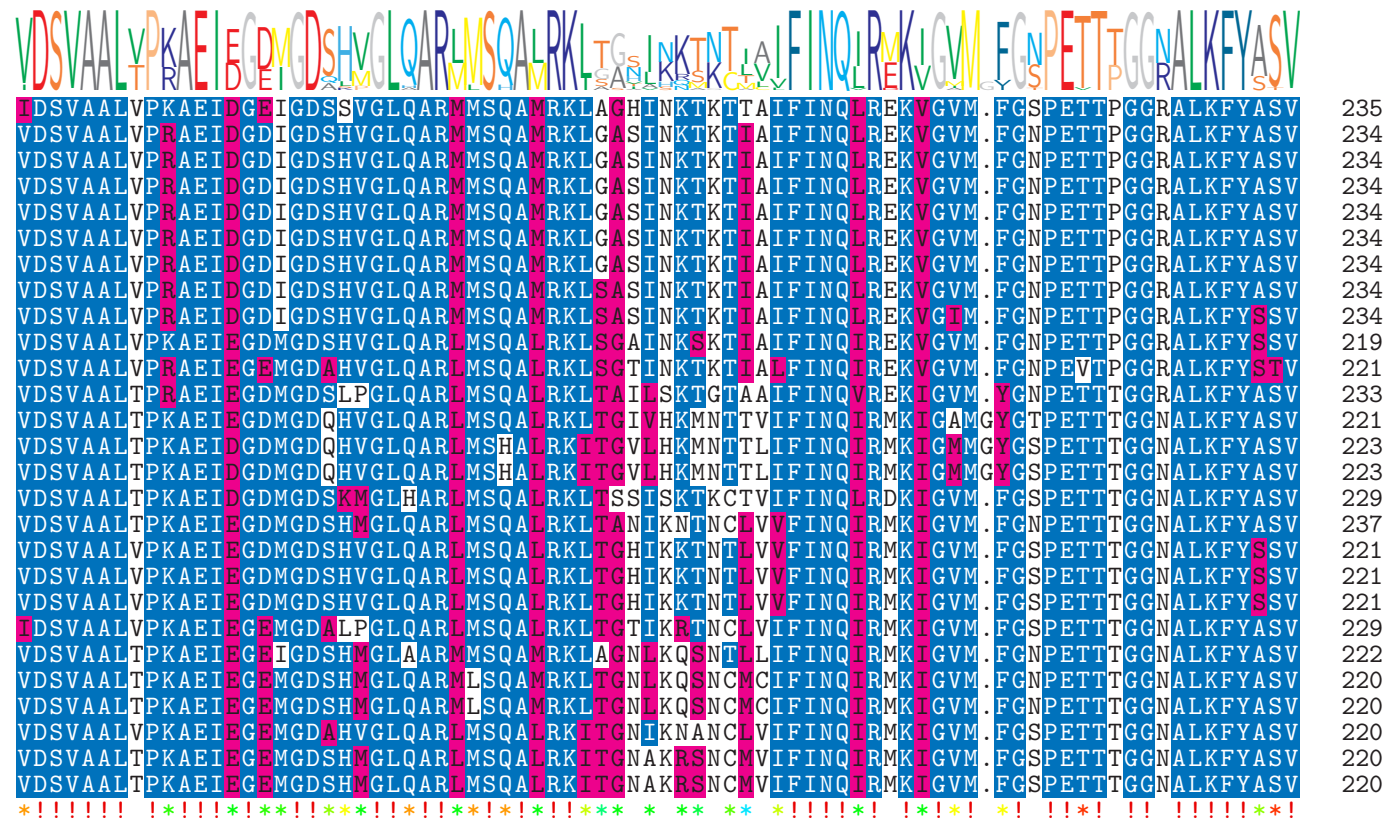
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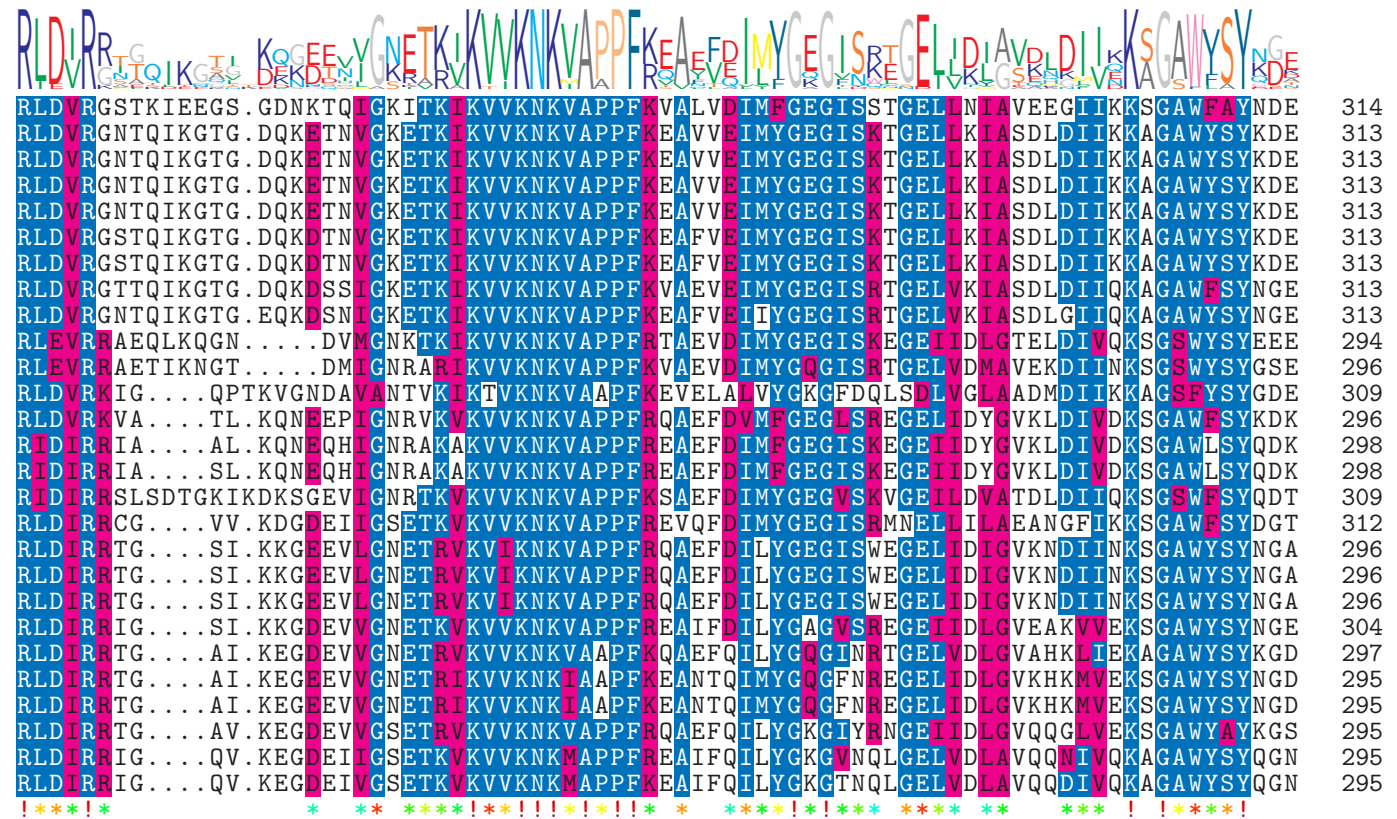
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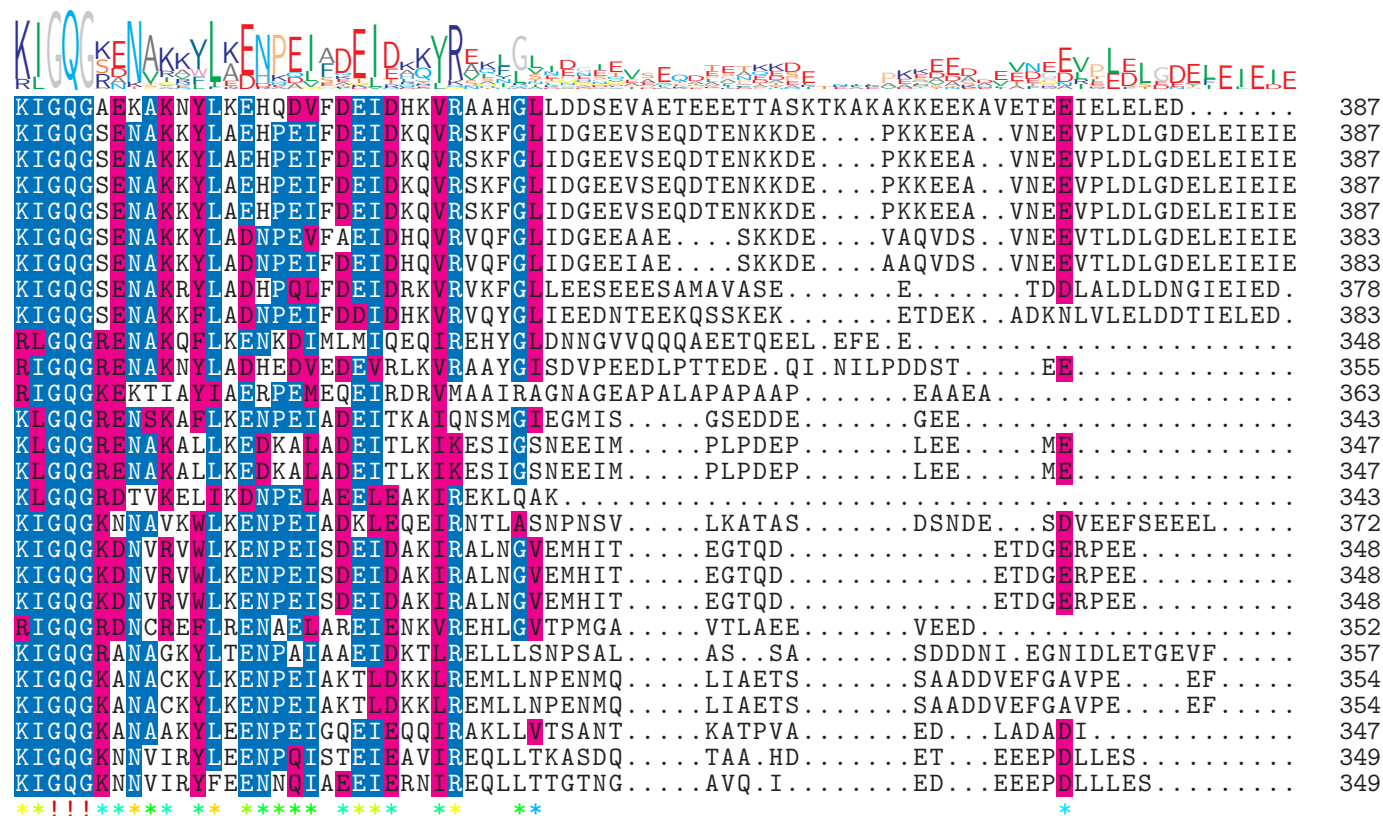
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consensus

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consensus

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