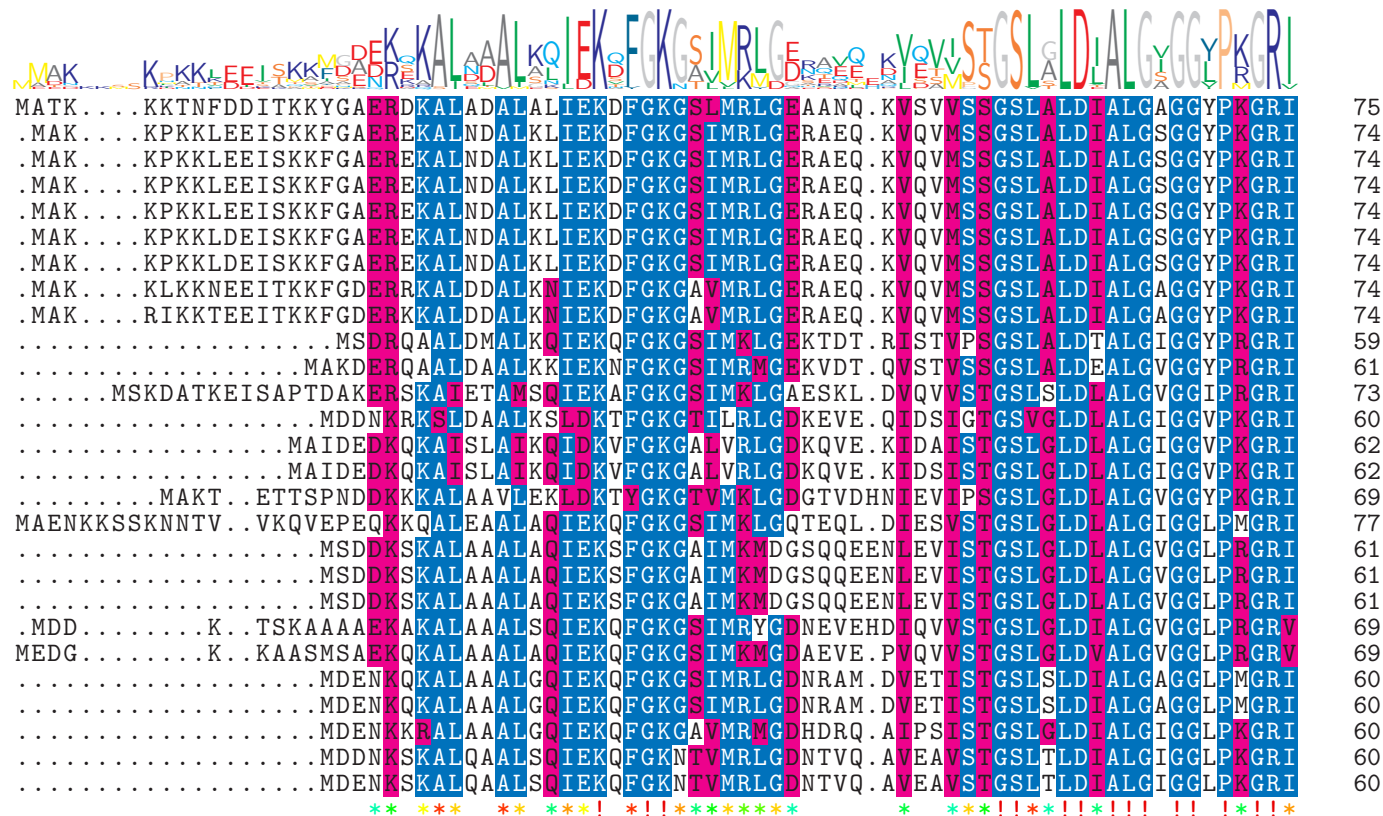


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consensus

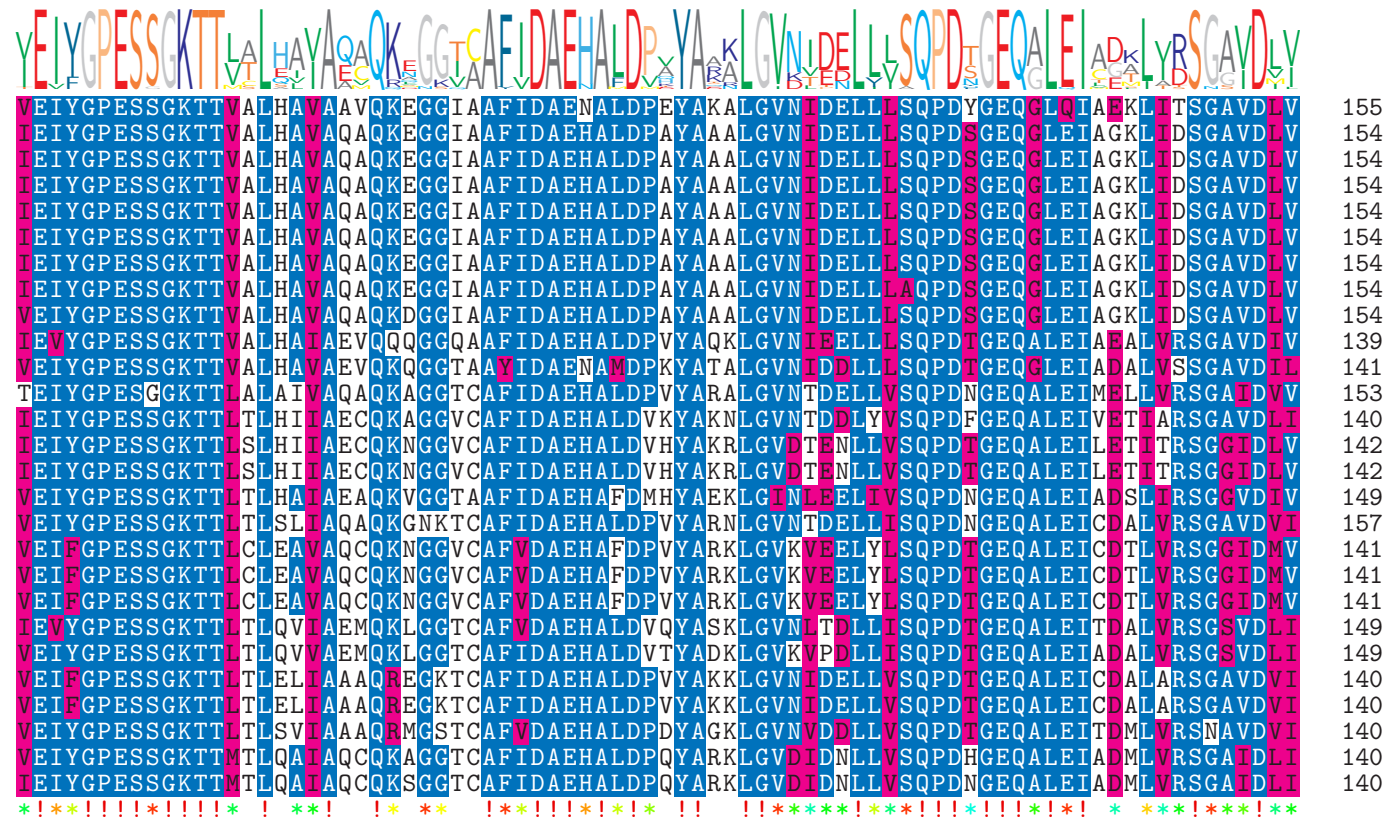
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consensus

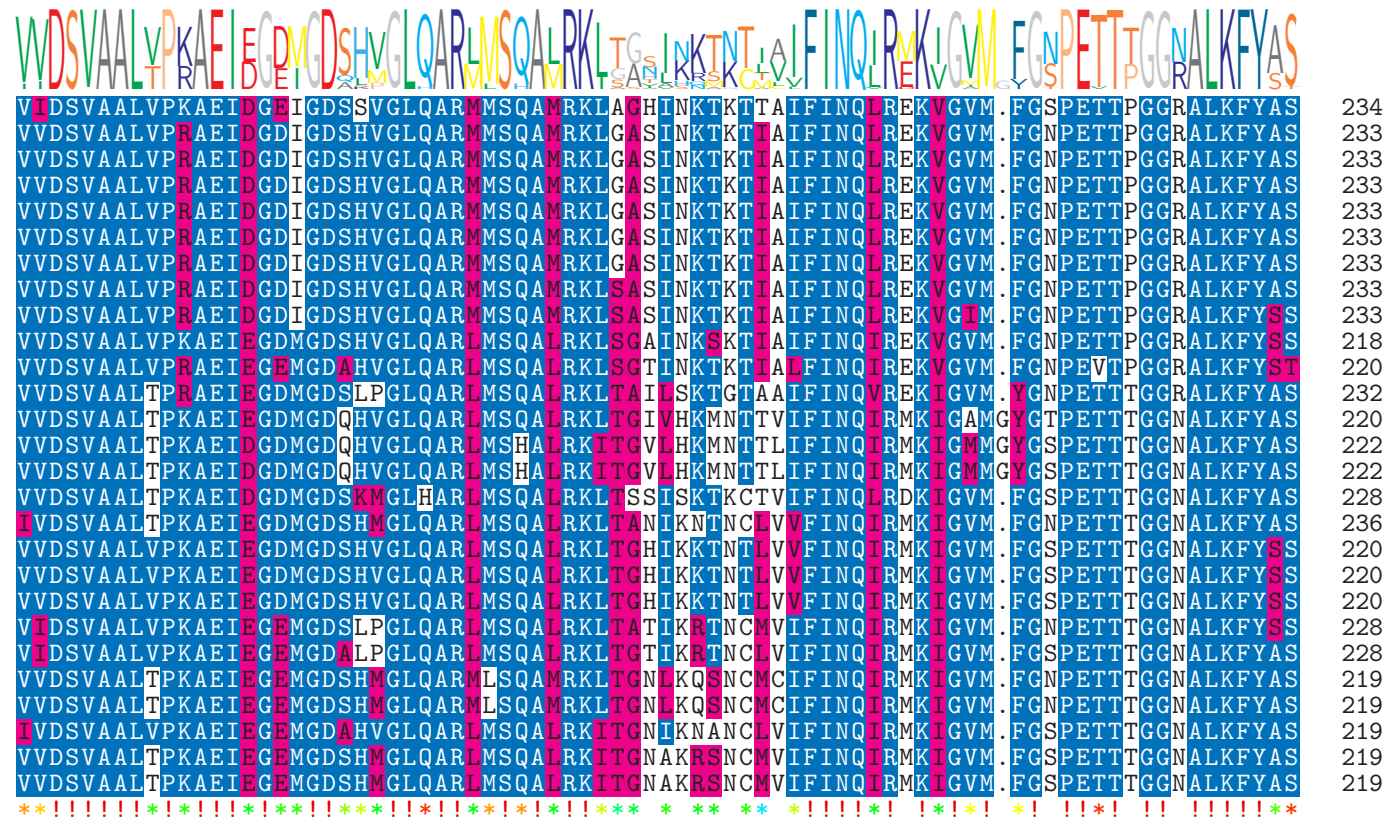
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consensus

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| NTDB id 228 SPD RS09265 WP 001085462.1      | VR | L | D | V | R | G | N | T | Q | I | K | G | T | G | . | D | Q | K | E | T | N | V | G | K | E | T | K | I | K | V | V | K | N | K | V | A | P | P | F | K | E | A | V | V | E | I | M | Y | G | E | G | I | S | K | T | G | E | L | L | K | I | A | S | D | L | D | I | I | K | K | A | G | A | W | Y | S | Y | K | D   | 312 |     |   |   |   |     |     |     |
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| NTDB id 1245 Cj1673c YP 002345041.1         | VR | L | D | V | R | K | V | A | T | . | . | . | . | . | . | . | . | . | . | L | . | K | Q | N | . | E | E | P | I | G | N | R | V | K | V | V | K | N | K | V | A | P | P | F | R | Q | A | E | F | D | V | M | F | G | E | G | L | S | R | E | G | E | L | I | D | Y | G | V | K | L | D | I | V | D | K | S | G | A | W   | F   | S   | Y | K | D | 295 |     |     |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | VR | I | D | I | R | R | I | A | A | . | . | . | . | . | . | . | . | . | . | L | . | K | Q | N | . | E | Q | H | I | G | N | R | A | K | A | K | V | V | K | N | K | V | A | P | P | F | R | E | A | E | F | D | I | M | F | G | E | G | I | S | K | E | G | E | I | I | D | Y | G | V | K | L | D | I | V | D | K | S | G   | A   | W   | L | S | Y | Q   | D   | 297 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | VR | I | D | I | R | R | I | A | S | . | . | . | . | . | . | . | . | . | . | L | . | K | Q | N | . | E | Q | H | I | G | N | R | A | K | A | K | V | V | K | N | K | V | A | P | P | F | R | E | A | E | F | D | I | M | F | G | E | G | I | S | K | E | G | E | I | I | D | Y | G | V | K | L | D | I | V | D | K | S | G   | A   | W   | L | S | Y | Q   | D   | 297 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | VR | I | D | I | R | R | S | L | S | D | T | G | K | I | K | D | K | S | G | E | V | I | G | N | R | T | K | V | K | V | V | K | N | K | V | A | P | P | F | K | S | A | E | F | D | I | M | Y | G | E | G | V | S | K | V | G | E | I | L | D | V | A | T | D | L | D | I | I | Q | K | S | G | S | W | F | S | Y | Q | D   | 308 |     |   |   |   |     |     |     |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | VR | L | D | I | R | R | C | G | V | . | . | . | . | . | . | . | . | . | . | V | . | K | D | G | . | D | E | I | I | G | S | E | T | K | V | K | V | V | K | N | K | V | A | P | P | F | R | E | V | Q | F | D | I | M | Y | G | E | G | I | S | R | M | N | E | L | L | I | L | A | E | A | N | G | F | I | K | K | S | G   | A   | W   | F | S | Y | D   | G   | 311 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | VR | L | D | I | R | R | T | G | S | . | . | . | . | . | . | . | . | . | . | I | . | K | K | G | . | E | E | V | L | G | N | E | T | R | V | K | V | I | K | N | K | V | A | P | P | F | R | Q | A | E | F | D | I | L | Y | G | E | G | I | S | W | E | G | E | L | I | D | I | G | V | K | N | D | I | I | N | K | S | G   | A   | W   | Y | S | Y | N   | G   | 295 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | VR | L | D | I | R | R | T | G | S | . | . | . | . | . | . | . | . | . | . | I | . | K | K | G | . | E | E | V | L | G | N | E | T | R | V | K | V | I | K | N | K | V | A | P | P | F | R | Q | A | E | F | D | I | L | Y | G | E | G | I | S | W | E | G | E | L | I | D | I | G | V | K | N | D | I | I | N | K | S | G   | A   | W   | Y | S | Y | N   | G   | 295 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | VR | L | D | I | R | R | T | G | S | . | . | . | . | . | . | . | . | . | . | I | . | K | K | G | . | E | E | V | L | G | N | E | T | R | V | K | V | I | K | N | K | V | A | P | P | F | R | Q | A | E | F | D | I | L | Y | G | E | G | I | S | W | E | G | E | L | I | D | I | G | V | K | N | D | I | I | N | K | S | G   | A   | W   | Y | S | Y | N   | G   | 295 |
| NTDB id 260429 CXD81 RS06780 WP 003812760.1 | VR | L | D | I | R | R | I | G | A | . | . | . | . | . | . | . | . | . | . | I | . | K | K | G | . | D | E | V | V | G | N | E | T | R | V | K | V | V | K | N | K | V | A | P | P | F | K | Q | A | E | F | D | I | M | Y | G | S | G | I | S | R | E | G | E | I | I | D | L | G | V | Q | A | N | V | V | D | K | S | G   | A   | W   | Y | S | Y | S   | G   | 303 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | VR | L | D | I | R | R | I | G | S | . | . | . | . | . | . | . | . | . | . | I | . | K | K | G | . | D | E | V | V | G | N | E | T | K | V | K | V | V | K | N | K | V | A | P | P | F | R | E | A | I | F | D | I | L | Y | G | A | G | V | S | R | E | G | E | I | I | D | L | G | V | E | A | K | V | V | E | K | S | G   | A   | W   | Y | S | Y | N   | G   | 303 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | VR | L | D | I | R | R | T | G | A | . | . | . | . | . | . | . | . | . | . | I | . | K | E | G | . | E | E | V | V | G | N | E | T | R | I | K | V | V | K | N | K | I | A | A | P | F | K | E | A | N | T | Q | I | M | Y | G | Q | G | F | N | R | E | G | E | L | I | D | L | G | V | K | H | K | M | V | E | K | S | G   | A   | W   | Y | S | Y | N   | G   | 294 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | VR | L | D | I | R | R | T | G | A | . | . | . | . | . | . | . | . | . | . | I | . | K | E | G | . | E | E | V | V | G | N | E | T | R | I | K | V | V | K | N | K | I | A | A | P | F | K | E | A | N | T | Q | I | M | Y | G | Q | G | F | N | R | E | G | E | L | I | D | L | G | V | K | H | K | M | V | E | K | S | G   | A   | W   | Y | S | Y | N   | G   | 294 |
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| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | VR | L | D | I | R | R | I | G | Q | . | . | . | . | . | . | . | . | . | . | V | . | K | E | G | . | D | E | I | I | G | S | E | T | K | V | K | V | V | K | N | K | M | A | P | P | F | R | E | A | I | F | Q | I | L | Y | G | K | G | V | N | Q | L | G | E | L | V | D | L | A | V | Q | Q | N | I | V | Q | K | A | G   | A   | W   | Y | S | Y | Q   | G   | 294 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | VR | L | D | I | R | R | I | G | Q | . | . | . | . | . | . | . | . | . | . | V | . | K | E | G | . | D | E | I | I | V | G | S | E | T | K | V | K | V | V | K | N | K | M | A | P | P | F | K | E | A | I | F | Q | I | L | Y | G | K | G | T | N | Q | L | G | E | L | V | D | L | A | V | Q |   |   |   |   |   |   |     |     |     |   |   |   |     |     |     |

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consensus

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| Sequence                                                                                | Score |
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| EKIGQGSENAKKYLA EHP E I FDEIDKQVRSKFG LIDGEEVSE.. QDTENKKDE... PKKEEA.. VNEEVPLDLGDELEI | 384   |
| EKIGQGSENAKKYLA EHP E I FDEIDKQVRSKFG LIDGEEVSE.. QDTENKKDE... PKKEEA.. VNEEVPLDLGDELEI | 384   |
| EKIGQGSENAKKYLA EHP E I FDEIDKQVRSKFG LIDGEEVSE.. QDTENKKDE... PKKEEA.. VNEEVPLDLGDELEI | 384   |
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| EKIGQGSENAKKYLA DNPEI FDEIDHQVRVQFGLIDGEEIAE..... SKKDE... AAQVDS.. VNEEVPLDLGDELEI     | 380   |
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| EKIGQGSENAKKFLADNPEI FDDIDHKVRVQYGLIEEDNTEE.. KQSSKEK..... ETDEK.. ADKNLVLELDDTIEL      | 381   |
| ERLGGGR ENAKQFLKENKDIMLMIQEQIREHYGLDNGGVVQQ.. QAETQEEL.EFE.E.....                       | 348   |
| ERIGGGREN AKNYLA DHEDVEDEVRLKVR AAYGISDVPEEDL.. PTTEDE.QI.NILPDDST..... EE.....         | 355   |
| ERIGGQKEKTIAYIA ERPMEQEIRDRVM AAI RAGNAGEAPALAPAPAPEAA.EA.....                          | 363   |
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| NRIGQGGKDNVREYLKEHKEMAEIENKVR ENQGIVSRAA.. T.FPASEAEDGE.....                            | 353   |
| ERIGGGRDNCREFLRENALEIENKVR EHLGVTPMGA.. V.TLAEVEED.....                                 | 352   |
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| DKIGQGGKANACKYLYKENPEIAKTLDDKKLREMLLNPNMQ.. LIAETSSAADV.EFGAV..... PEEF.....            | 354   |
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