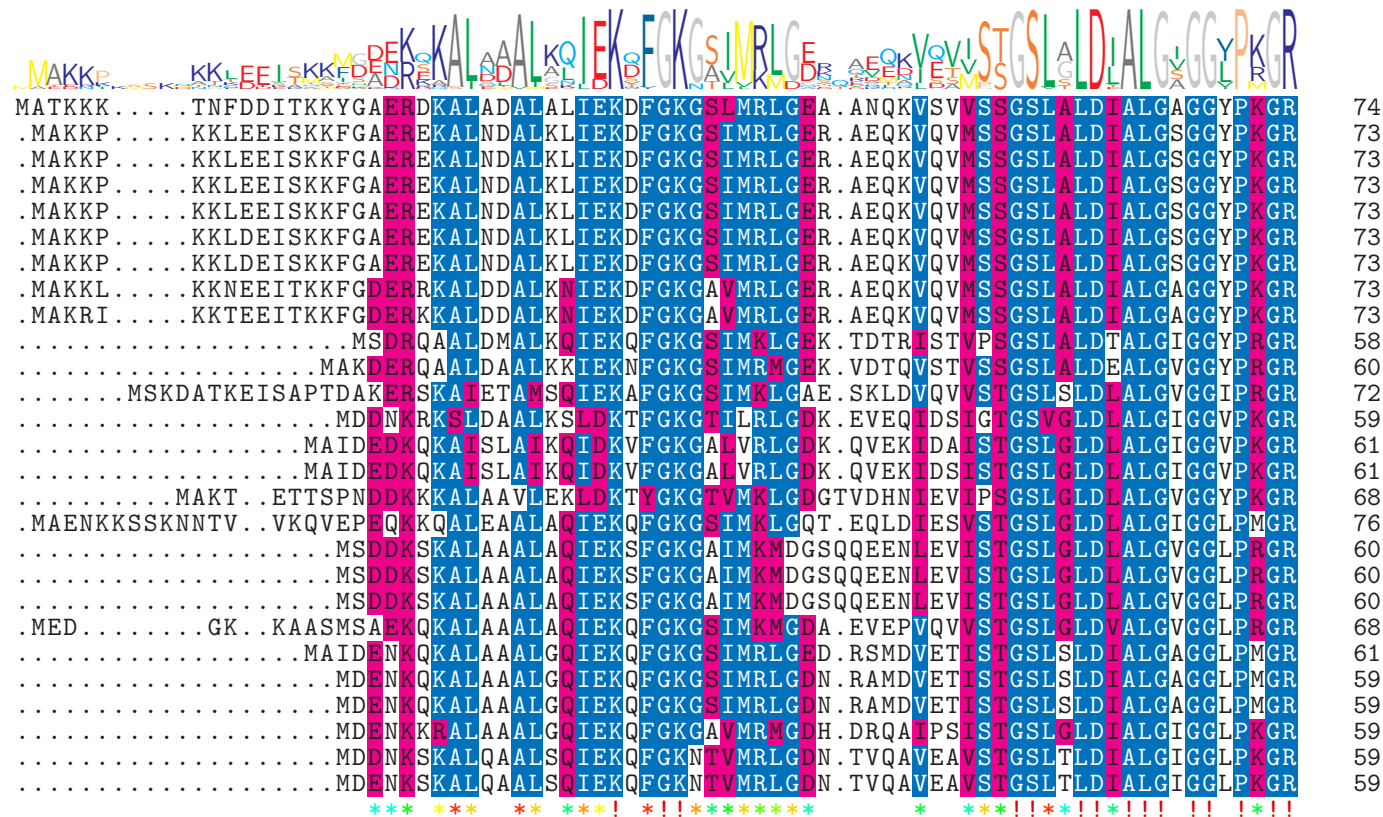


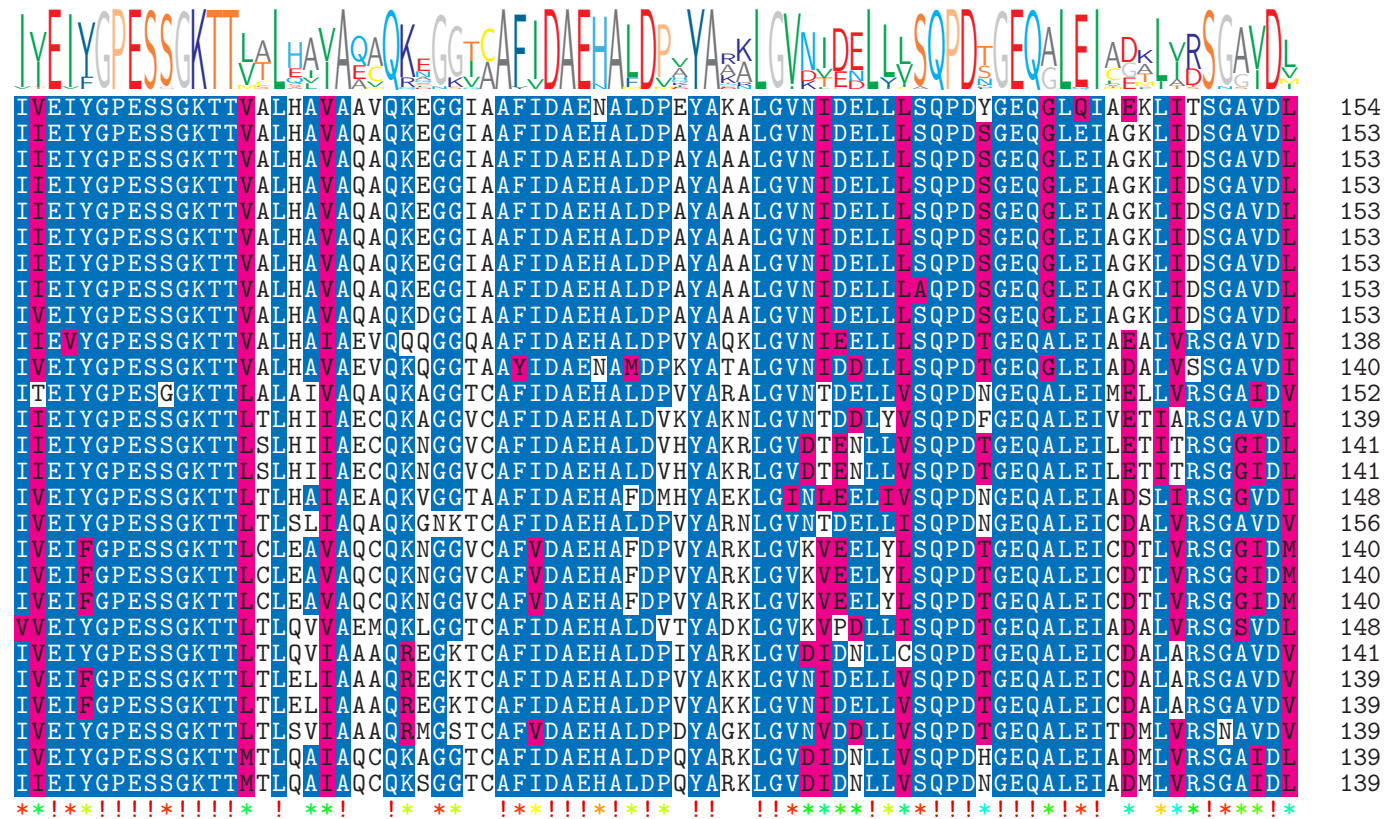
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consensus

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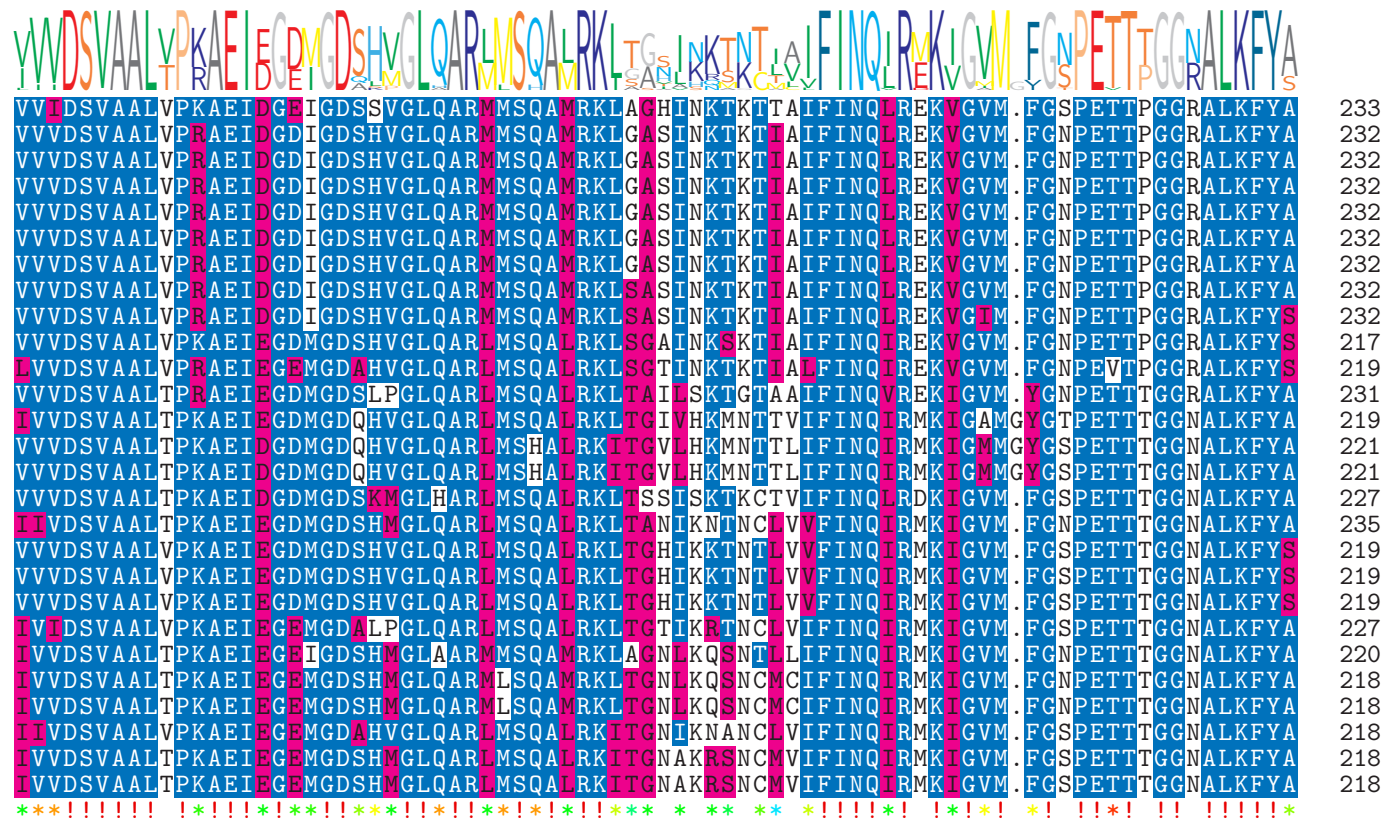
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consensus

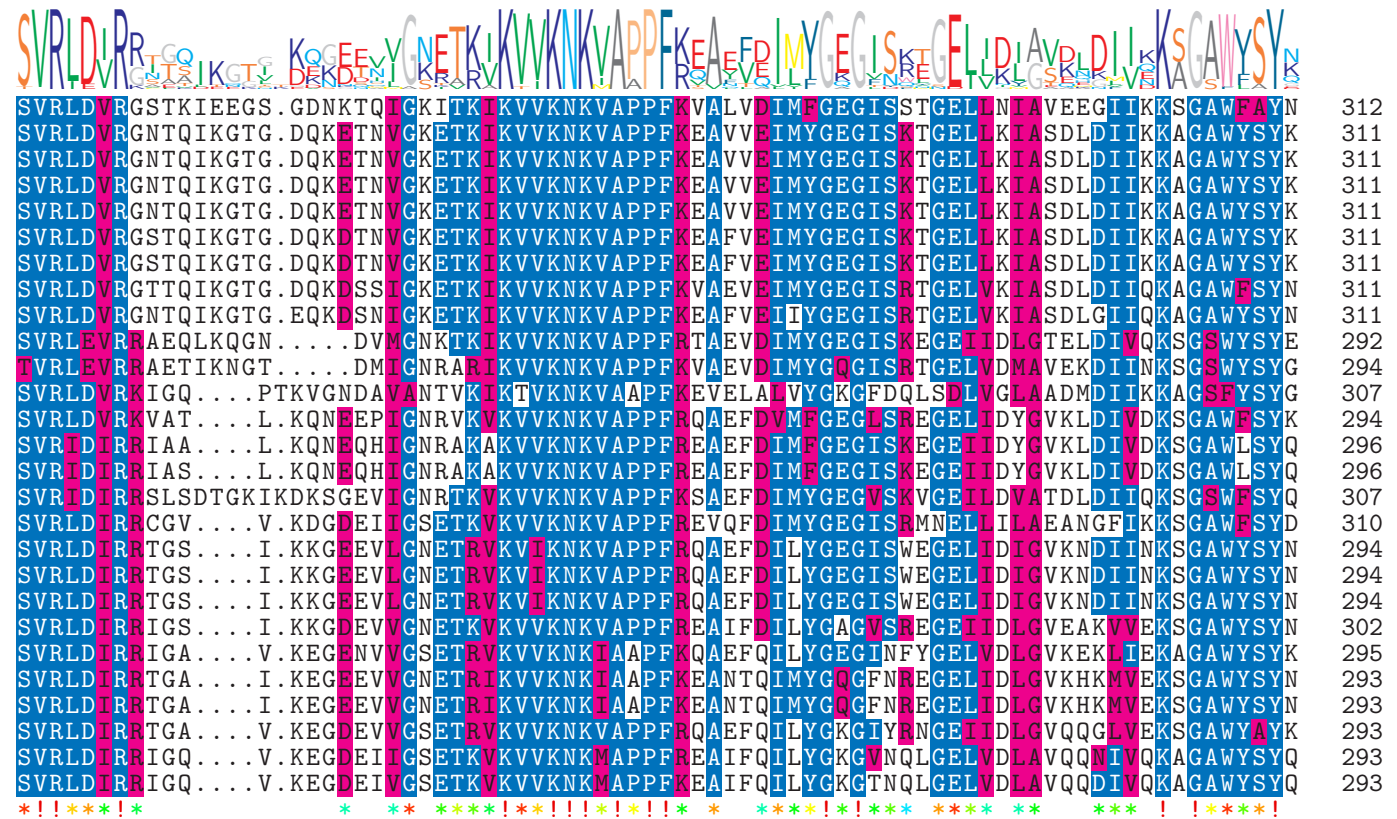
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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|                                             |             |                 |                |                |                     |                   |             |       |     |
|---------------------------------------------|-------------|-----------------|----------------|----------------|---------------------|-------------------|-------------|-------|-----|
| NTDB id 600 KW2 RS01765 WP 011675413.1      | DEKIGQGA    | EKAKNYLKEHQDV   | DEIDHKVRAAHG   | LDDSEVAETEEETT | ASKTKAKAKKEE        | EKAVETEEIELELED   | ....        | 387   |     |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | DEKIGQGS    | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN  | KKDE....PKKEEA      | .VNEEVPLDLGDELEIE |             | 385   |     |
| NTDB id 228 SPD RS09265 WP 001085462.1      | DEKIGQGS    | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN  | KKDE....PKKEEA      | .VNEEVPLDLGDELEIE |             | 385   |     |
| NTDB id 194 SPR RS08825 WP 001085462.1      | DEKIGQGS    | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN  | KKDE....PKKEEA      | .VNEEVPLDLGDELEIE |             | 385   |     |
| NTDB id 159 SP RS09750 WP 001085462.1       | DEKIGQGS    | ENAKKYLAEHPEIF  | DEIDKQVRSKFGL  | IDGEEVSEQDTEN  | KKDE....PKKEEA      | .VNEEVPLDLGDELEIE |             | 385   |     |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | DEKIGQGS    | ENAKKYLAADNPEIF | DEIDHQVRVQFGL  | IDGEEIAES....  | KKDE....AAQVDS      | .VNEEVTLDLGDELEIE |             | 381   |     |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | DEKIGQGS    | ENAKKYLAADNPEV  | FAEIDHQVRVQFGL | IDGEEAAES....  | KKDE....VAQVDS      | .VNEEVTLDLGDELEIE |             | 381   |     |
| NTDB id 453 Spy49 1753c ACI62003.1          | GEKIGQGS    | ENAKRYLADHPQLF  | DEIDRKVRVKFGL  | LEESEEEESAMAV  | ASE.....E.....      | TDDLALDLDNGIEIE   |             | 377   |     |
| NTDB id 408 SMU RS09530 WP 002262392.1      | GEKIGQGS    | ENAKKFLADNPEIF  | DDIDHKVRVQYGL  | IEEDNTEEEKQSS  | KEK.....ETDEK       | .ADKNLVLELDDTIELE |             | 382   |     |
| NTDB id 115 BSU 16940 NP 389576.2           | EERLGGQREN  | AKQFLKENKDIM    | LMIQEQIREHYGL  | DNNGVVQQAEET   | QEEL.EFE.E.....     |                   |             | 348   |     |
| NTDB id 625 LCA RS02525 WP 011374196.1      | SERIGQGS    | ENAKNYLADHED    | VEDEVRLKVR     | AAYGISDVP      | PEEDLPTTEDE         | .QI.NILPDDST      | ....EE..... | 355   |     |
| NTDB id 1313 DR RS12030 WP 010888966.1      | DERIGQGS    | KEKTIA          | YIAERP         | MEQEIRDRV      | MAAIRAGNAGE         | APALAPAPAAPEAA    | ...EA.....  | 363   |     |
| NTDB id 1245 Cj1673c YP 002345041.1         | DKKLGGGREN  | SKAFLKENPEI     | ADEITKAIQNSM   | GIEGM....ISG   | SEDDEG.....EE       |                   |             | 343   |     |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | DKKLGGGREN  | AKALLKEDK       | ALADEITLKI     | KESIGSNEE....  | IMPLPDEPL.....      | EEME              |             | 347   |     |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | DKKLGGGREN  | AKALLKEDK       | ALADEITLKI     | KESIGSNEE....  | IMPLPDEPL.....      | EEME              |             | 347   |     |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | DTKLGGGRD   | TVKELIKDN       | PELAEELEAKI    | IREKLQAK.....  |                     |                   |             | 343   |     |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | GTKIGQGN    | NAVKWLKENPEI    | ADKLEQEIRNTL   | ASNPN....SVL   | KATASDSN...DES      | DVEEFSEEEL        | .....       | 372   |     |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | GAKIGQGS    | KDNVRVWLKENPEI  | SDEIDAKIRALNG  | VEMH....ITEG   | .....T...QDET       | DGERPEE           | .....       | 348   |     |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | GAKIGQGS    | KDNVRVWLKENPEI  | SDEIDAKIRALNG  | VEMH....ITEG   | .....T...QDET       | DGERPEE           | .....       | 348   |     |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | GAKIGQGS    | KDNVRVWLKENPEI  | SDEIDAKIRALNG  | VEMH....ITEG   | .....T...QDET       | DGERPEE           | .....       | 348   |     |
| NTDB id 1427 RS RS02760 WP 011000510.1      | GERIGQGRD   | NCREFLRENAEL    | AREIENKVR      | REHLGVTPM....  | GAVTLAEE            | .VE...ED          | .....       | 352   |     |
| NTDB id 382663 FYK42 RS05790 WP 000963143.1 | GEKIGQGS    | KANATAWLKDN     | PETAKEIEKKV    | RELLLSNP       | N....STPDFSV...D... | DSEGVAET          | NEDF        | ..... | 353 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | GDKIGQGS    | KANACKY         | LKENPEIAKTLD   | KKLREMLLN      | PNEN....MQLIA       | ETSSAA...DDV      | EFGAVPEEF   | ..... | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | GDKIGQGS    | KANACKY         | LKENPEIAKTLD   | KKLREMLLN      | PNEN....MQLIA       | ETSSAA...DDV      | EFGAVPEEF   | ..... | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | GSKIGQGS    | KANA            | AKYLEENPEI     | GQIEEQIRAKLL   | VTSA.....NTKATP     | VAEDL...ADAD      | I           | ..... | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | GNKIGQGN    | NNVIRY          | LEENPQISTE     | IEAVIREQLL     | TKAS....DQTAA       | .HDETE...EEP      | DLLES       | ..... | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | GNKIGQGN    | NNVIRY          | FEENNQIAEEI    | ERNIREQLL      | TTGT....NGAVQ       | .I.EDE...EEP      | DLLES       | ..... | 349 |
| consensus                                   | ***!!!***** | **              | *****          | *****          | **                  | *                 | *           |       |     |

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|                                             |     |     |  |
|---------------------------------------------|-----|-----|--|
|                                             |     | IEE |  |
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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 499 SM12261 RS08315 WP 078228268.1  | IEE | 384 |  |
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| NTDB id 408 SMU RS09530 WP 002262392.1      | D.. | 383 |  |
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| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | ... | 349 |  |
| consensus                                   |     |     |  |

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