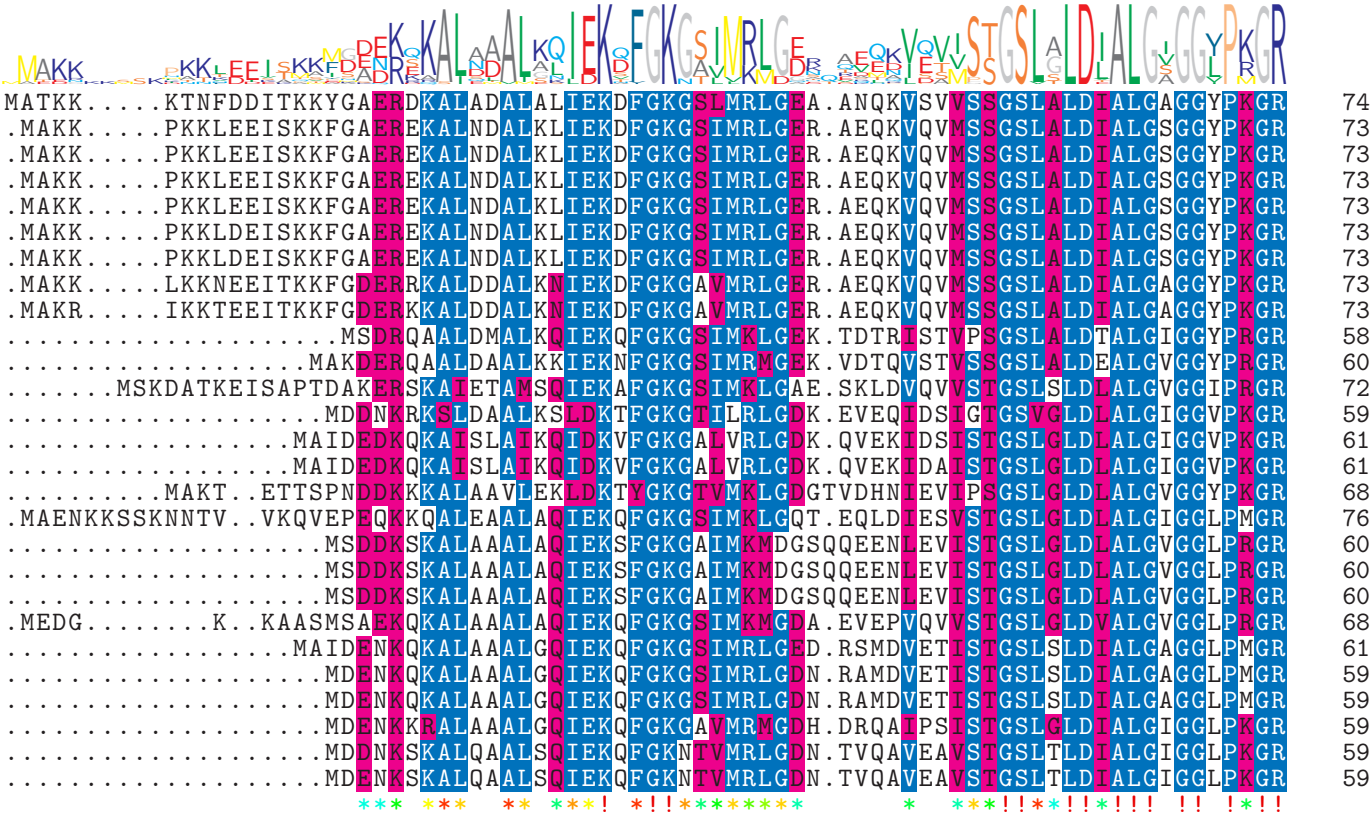


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NTDB id 1022 ACIAD RS06390 WP 004925639.1  
NTDB id 1074 ABD1 RS10195 WP 000344167.1  
consensus



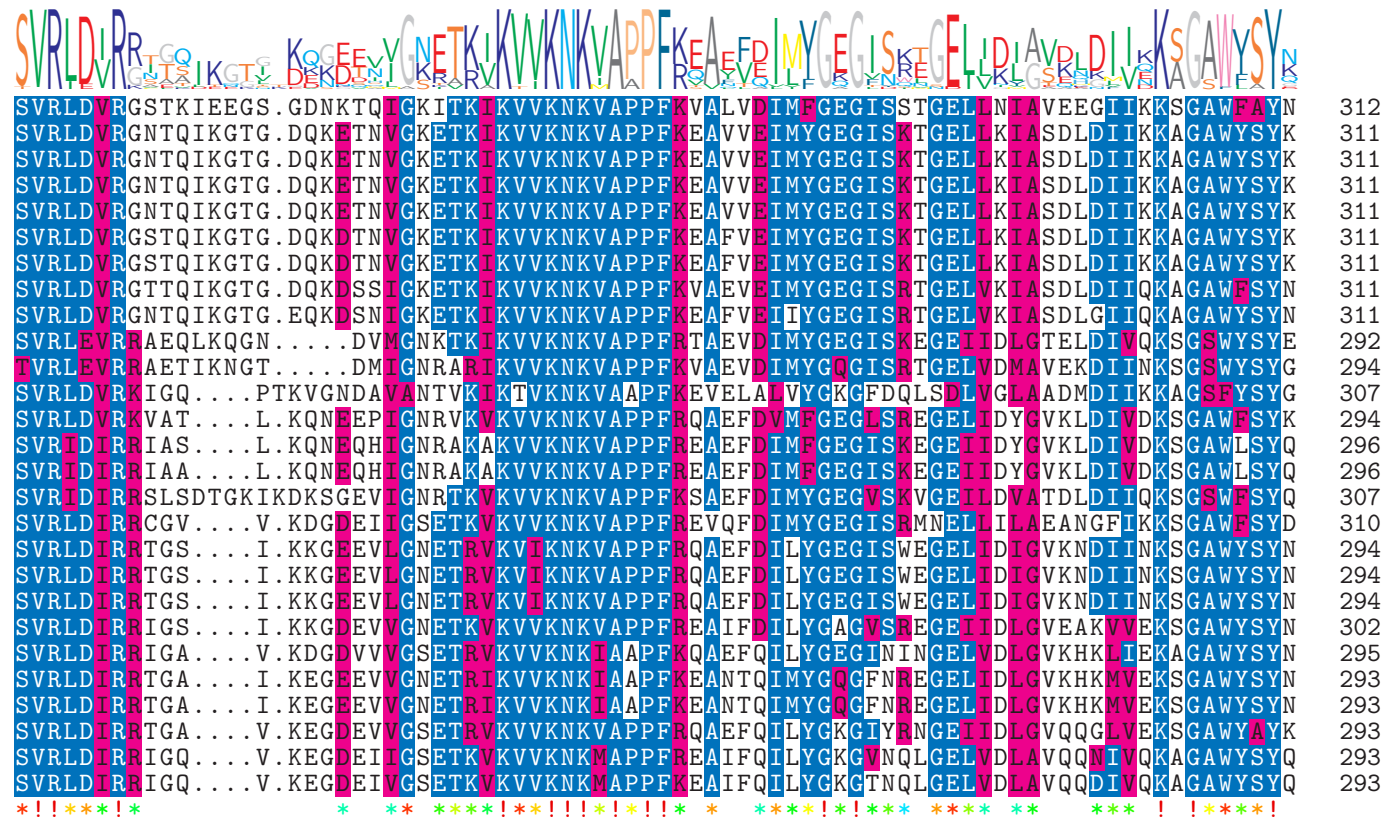




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consensus

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| Sequence                                                                                                                                                                                                                                                                                           | Score |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| DEKIGGGA <sup>+</sup> EA <sup>+</sup> KA <sup>+</sup> KN <sup>+</sup> YL <sup>+</sup> KE <sup>+</sup> HQ <sup>+</sup> DV <sup>+</sup> FD <sup>+</sup> EID <sup>+</sup> DHKV <sup>+</sup> RAAH <sup>+</sup> CL <sup>+</sup> DDSEVAETEET <sup>+</sup> TASK <sup>+</sup> .TKAKAKKEEKAVETEEIELELED.... | 387   |
| DEKIGGGS <sup>+</sup> ENAK <sup>+</sup> KYLA <sup>+</sup> EHPE <sup>+</sup> IF <sup>+</sup> DEID <sup>+</sup> DKQV <sup>+</sup> RSKF <sup>+</sup> CL <sup>+</sup> IDGEEVSEQD <sup>+</sup> TENKKDE....PKKEEA..VNEEVPLDLGDELEI                                                                       | 384   |
| DEKIGGGS <sup>+</sup> ENAK <sup>+</sup> KYLA <sup>+</sup> EHPE <sup>+</sup> IF <sup>+</sup> DEID <sup>+</sup> DKQV <sup>+</sup> RSKF <sup>+</sup> CL <sup>+</sup> IDGEEVSEQD <sup>+</sup> TENKKDE....PKKEEA..VNEEVPLDLGDELEI                                                                       | 384   |
| DEKIGGGS <sup>+</sup> ENAK <sup>+</sup> KYLA <sup>+</sup> EHPE <sup>+</sup> IF <sup>+</sup> DEID <sup>+</sup> DKQV <sup>+</sup> RSKF <sup>+</sup> CL <sup>+</sup> IDGEEVSEQD <sup>+</sup> TENKKDE....PKKEEA..VNEEVPLDLGDELEI                                                                       | 384   |
| DEKIGGGS <sup>+</sup> ENAK <sup>+</sup> KYLA <sup>+</sup> ADNP <sup>+</sup> EVFA <sup>+</sup> EID <sup>+</sup> DHQR <sup>+</sup> VRVQ <sup>+</sup> FL <sup>+</sup> IDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDLEI                                                                                     | 380   |
| DEKIGGGS <sup>+</sup> ENAK <sup>+</sup> KYLA <sup>+</sup> ADNP <sup>+</sup> EVFA <sup>+</sup> EID <sup>+</sup> DHQR <sup>+</sup> VRVQ <sup>+</sup> FL <sup>+</sup> IDGEEAAE....SKKDE....AAQVDS..VNEEVTLDLGDLEI                                                                                     | 380   |
| GEKIGGGS <sup>+</sup> ENAK <sup>+</sup> RYLA <sup>+</sup> DHP <sup>+</sup> QL <sup>+</sup> IF <sup>+</sup> DEID <sup>+</sup> DRKV <sup>+</sup> VKFL <sup>+</sup> CL <sup>+</sup> EESEESAMAVASE.....E.....TDDLALDLNGIEI                                                                             | 376   |
| GEKIGGGS <sup>+</sup> ENAK <sup>+</sup> KFLA <sup>+</sup> DNP <sup>+</sup> EIF <sup>+</sup> DD <sup>+</sup> IDHKV <sup>+</sup> RVQY <sup>+</sup> CL <sup>+</sup> IEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIEL                                                                                        | 381   |
| EE <sup>+</sup> RL <sup>+</sup> GGGREN <sup>+</sup> AK <sup>+</sup> QFL <sup>+</sup> KEN <sup>+</sup> KD <sup>+</sup> IMLM <sup>+</sup> IQEQ <sup>+</sup> IREHY <sup>+</sup> CL <sup>+</sup> DMNGVVQQQA <sup>+</sup> EETQEEL..EFE.E.....                                                           | 348   |
| SERIGGGREN <sup>+</sup> AK <sup>+</sup> NYL <sup>+</sup> ADH <sup>+</sup> ED <sup>+</sup> VE <sup>+</sup> VR <sup>+</sup> LKV <sup>+</sup> RAAY <sup>+</sup> CT <sup>+</sup> SDVPEEDLPTTEDE.QI..NILPDDST....EE.....                                                                                | 355   |
| DERIGGK <sup>+</sup> EKTI <sup>+</sup> AYIA <sup>+</sup> ERP <sup>+</sup> EME <sup>+</sup> QE <sup>+</sup> IRDR <sup>+</sup> VMAAIRAGNAGEAPALAPAPAAPEAAAAA.....                                                                                                                                    | 363   |
| DKKLGGGREN <sup>+</sup> SKA <sup>+</sup> FL <sup>+</sup> KEN <sup>+</sup> PEIA <sup>+</sup> DEIT <sup>+</sup> KA <sup>+</sup> TQNSM <sup>+</sup> CT <sup>+</sup> EGMISGSEDDEGEE.....                                                                                                               | 343   |
| DKKLGGGREN <sup>+</sup> AK <sup>+</sup> ALL <sup>+</sup> KED <sup>+</sup> KALA <sup>+</sup> DEIT <sup>+</sup> TLK <sup>+</sup> IKES <sup>+</sup> IGSNEEIMPLPDEPLEEME.....                                                                                                                          | 347   |
| DKKLGGGREN <sup>+</sup> AK <sup>+</sup> ALL <sup>+</sup> KED <sup>+</sup> KALA <sup>+</sup> DEIT <sup>+</sup> TLK <sup>+</sup> IKES <sup>+</sup> IGSNEEIMPLPDEPLEEME.....                                                                                                                          | 347   |
| DTKLGGGRD <sup>+</sup> TV <sup>+</sup> KEL <sup>+</sup> IKD <sup>+</sup> NPELA <sup>+</sup> EEL <sup>+</sup> EAK <sup>+</sup> IREKLQAK.....                                                                                                                                                        | 343   |
| GAKIGGQK <sup>+</sup> NNAV <sup>+</sup> KWL <sup>+</sup> KEN <sup>+</sup> PEIA <sup>+</sup> ADKLE <sup>+</sup> QEI <sup>+</sup> RNTLA <sup>+</sup> SNPNSVLKATASDSNDES <sup>+</sup> DVEEFSE.....EEL.....                                                                                            | 372   |
| GAKIGGQK <sup>+</sup> DNVR <sup>+</sup> VWL <sup>+</sup> KEN <sup>+</sup> PEIS <sup>+</sup> DEID <sup>+</sup> AK <sup>+</sup> IRALN <sup>+</sup> GVEMHITEGTQ.....DET <sup>+</sup> GERPE.....E.....                                                                                                 | 348   |
| GAKIGGQK <sup>+</sup> DNVR <sup>+</sup> VWL <sup>+</sup> KEN <sup>+</sup> PEIS <sup>+</sup> DEID <sup>+</sup> AK <sup>+</sup> IRALN <sup>+</sup> GVEMHITEGTQ.....DET <sup>+</sup> GERPE.....E.....                                                                                                 | 348   |
| GAKIGGQK <sup>+</sup> DNVR <sup>+</sup> VWL <sup>+</sup> KEN <sup>+</sup> PEIS <sup>+</sup> DEID <sup>+</sup> AK <sup>+</sup> IRALN <sup>+</sup> GVEMHITEGTQ.....DET <sup>+</sup> GERPE.....E.....                                                                                                 | 348   |
| GERIGGGRD <sup>+</sup> NCRE <sup>+</sup> FLREN <sup>+</sup> AEL <sup>+</sup> AREI <sup>+</sup> ENKV <sup>+</sup> REHL <sup>+</sup> GVTPMGAVTLAAEEVEED.....                                                                                                                                         | 352   |
| GDKIGGQK <sup>+</sup> ANAS <sup>+</sup> NYL <sup>+</sup> KEN <sup>+</sup> PEIA <sup>+</sup> IA <sup>+</sup> AK <sup>+</sup> LDKKL <sup>+</sup> REML <sup>+</sup> LN <sup>+</sup> GGNGEQPVAAATAEFADGADETNE.....EF.....                                                                              | 356   |
| GDKIGGQK <sup>+</sup> ANACKY <sup>+</sup> LKEN <sup>+</sup> PEIA <sup>+</sup> AK <sup>+</sup> TL <sup>+</sup> DKKL <sup>+</sup> REML <sup>+</sup> LN <sup>+</sup> PN <sup>+</sup> MQLIAETSSAADDVEFGAVPE.....EF.....                                                                                | 354   |
| GDKIGGQK <sup>+</sup> ANACKY <sup>+</sup> LKEN <sup>+</sup> PEIA <sup>+</sup> AK <sup>+</sup> TL <sup>+</sup> DKKL <sup>+</sup> REML <sup>+</sup> LN <sup>+</sup> PN <sup>+</sup> MQLIAETSSAADDVEFGAVPE.....EF.....                                                                                | 354   |
| GSKIGGQK <sup>+</sup> ANA <sup>+</sup> AKY <sup>+</sup> LEEN <sup>+</sup> PEI <sup>+</sup> GQE <sup>+</sup> IEQQ <sup>+</sup> IRAKLL <sup>+</sup> VT <sup>+</sup> SANTKATPVAEDL..ADADI.....                                                                                                        | 347   |
| GNKIGGQK <sup>+</sup> NNVIR <sup>+</sup> YLEEN <sup>+</sup> PEI <sup>+</sup> QISTE <sup>+</sup> IEAV <sup>+</sup> IREQLL <sup>+</sup> TKASDQTAA.HDETE..EEPDLLES.....                                                                                                                               | 349   |
| GNKIGGQK <sup>+</sup> NNVIR <sup>+</sup> YLEEN <sup>+</sup> PEI <sup>+</sup> QIAE <sup>+</sup> IEERN <sup>+</sup> IREQLL <sup>+</sup> TGTNGAVQ.I.EDE..EEPDLLE.....S.....                                                                                                                           | 349   |

logo

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| NTDB id 159 SP RS09750 WP 001085462.1       | EIEE | 388 |
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| NTDB id 1130 NGFG RS03960 WP 003688695.1    | .... | 348 |
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| NTDB id 1427 RS RS02760 WP 011000510.1      | .... | 352 |
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| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | .... | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | .... | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | .... | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | .... | 349 |
| consensus                                   |      |     |

-  non conserved
-  similar
-  ≥ 50% conserved