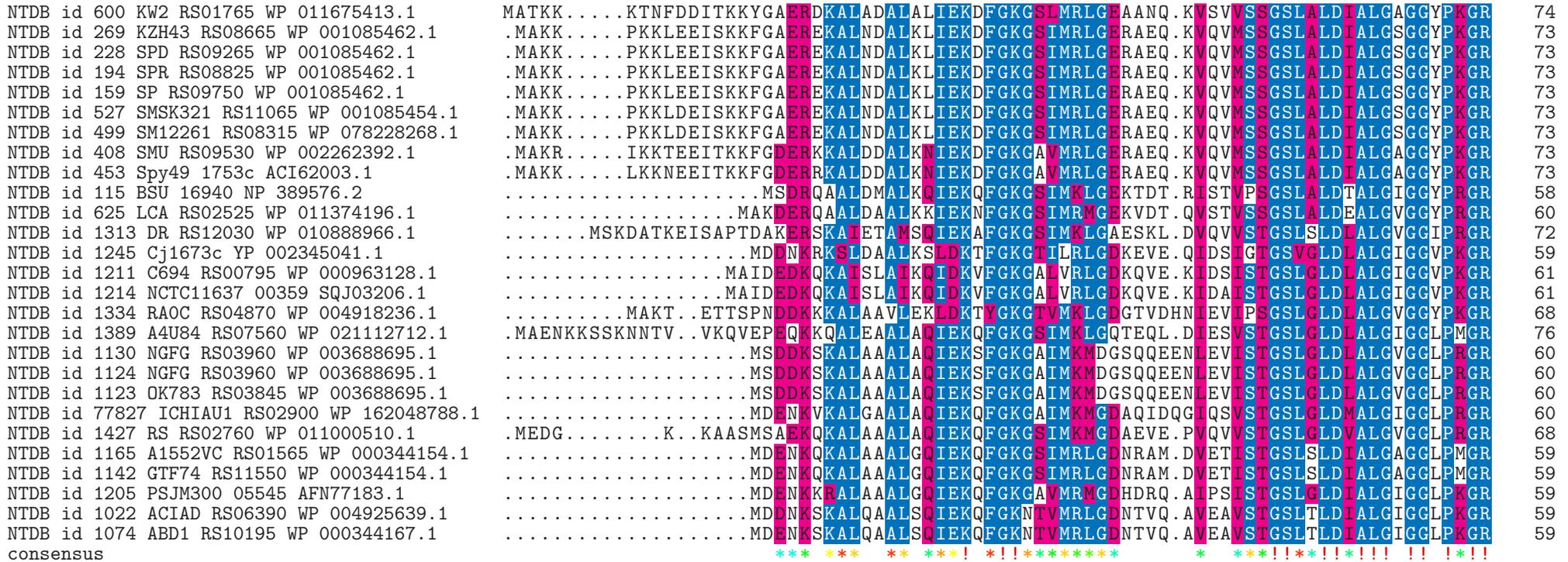


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| NTDB id 600 KW2 RS01765 WP 011675413.1       | DEKIGGQA <b>E</b> KAKNYLKEHQDV <b>F</b> DEIDHKVRAAH <b>G</b> LDDSEVAETEETT.ASKTKAKAKKEEKAVETEEIELELED...   | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1     | DEKIGGQ <b>S</b> ENAKKYLA <b>E</b> HP <b>E</b> IFDEIDKQVRSK <b>F</b> GIDGEEVSEQDTENK.KDE...PKKEEA..VNEEVPLDLGDELEI   | 384 |
| NTDB id 228 SPD RS09265 WP 001085462.1       | DEKIGGQ <b>S</b> ENAKKYLA <b>E</b> HP <b>E</b> IFDEIDKQVRSK <b>F</b> GIDGEEVSEQDTENK.KDE...PKKEEA..VNEEVPLDLGDELEI   | 384 |
| NTDB id 194 SPR RS08825 WP 001085462.1       | DEKIGGQ <b>S</b> ENAKKYLA <b>E</b> HP <b>E</b> IFDEIDKQVRSK <b>F</b> GIDGEEVSEQDTENK.KDE...PKKEEA..VNEEVPLDLGDELEI   | 384 |
| NTDB id 159 SP RS09750 WP 001085462.1        | DEKIGGQ <b>S</b> ENAKKYLA <b>E</b> HP <b>E</b> IFDEIDKQVRSK <b>F</b> GIDGEEVSEQDTENK.KDE...PKKEEA..VNEEVPLDLGDELEI   | 384 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1   | DEKIGGQ <b>S</b> ENAKKYLA <b>D</b> N <b>P</b> E <b>V</b> FAEIDHQV <b>R</b> VQ <b>F</b> GIDGEEAAE...SK.KDE...VAQVDS..VNEEVTLDLGDELEI  | 380 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1   | DEKIGGQ <b>S</b> ENAKKYLA <b>D</b> N <b>P</b> E <b>V</b> FAEIDHQV <b>R</b> VQ <b>F</b> GIDGEEIAE...SK.KDE...AAQVDS..VNEEVTLDLGDLEI   | 380 |
| NTDB id 408 SMU RS09530 WP 002262392.1       | GEKIGGQ <b>S</b> ENAKK <b>F</b> LADNP <b>E</b> IF <b>D</b> IDHKV <b>R</b> VQ <b>Y</b> GLIEEDNTEEKQSSKE.K.....ETDEK..ADKNLVLELDDTIEL  | 381 |
| NTDB id 453 Spy49 1753c ACI62003.1           | GEKIGGQ <b>S</b> ENAKRYLADHP <b>Q</b> IFDEIDRKV <b>R</b> VK <b>F</b> GLEESEEEESAMAVAS.E.....E.....TDDLALDLNGIEI  | 376 |
| NTDB id 115 BSU 16940 NP 389576.2            | EER <b>L</b> GGREN <b>A</b> K <b>Q</b> FLKEN <b>K</b> D <b>I</b> ML <b>M</b> I <b>Q</b> E <b>Q</b> IRE <b>H</b> Y <b>C</b> LDNNGVVQQQA <b>E</b> ET <b>Q</b> .EEL.EFE.E.....  | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1       | SERIGGQ <b>R</b> ENAKNYLAD <b>H</b> ED <b>V</b> ED <b>V</b> RLK <b>V</b> RA <b>A</b> Y <b>G</b> ISDVPEEDLPTTEDE..QI.NILPDDST....EE.....  | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1       | DERIGGQ <b>K</b> EKT <b>I</b> AY <b>I</b> A <b>E</b> R <b>P</b> E <b>M</b> E <b>Q</b> E <b>I</b> RDR <b>V</b> MA <b>A</b> IRAG <b>N</b> AGE <b>A</b> PALAP <b>A</b> PA <b>A</b> PE <b>A</b> EA.....  | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1          | DKK <b>L</b> GGREN <b>S</b> K <b>A</b> FLKEN <b>P</b> E <b>I</b> AD <b>E</b> IT <b>K</b> AT <b>Q</b> NS <b>M</b> G <b>I</b> EGMISG <b>S</b> ED..DEGEE.....   | 343 |
| NTDB id 1211 C694 RS00795 WP 000963128.1     | DKK <b>L</b> GGREN <b>A</b> K <b>A</b> LL <b>K</b> ED <b>K</b> AL <b>A</b> DE <b>I</b> TL <b>K</b> IK <b>E</b> SI <b>G</b> SNEE <b>I</b> MP <b>L</b> PD..E <b>P</b> LEE..ME.....   | 347 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1      | DKK <b>L</b> GGREN <b>A</b> K <b>A</b> LL <b>K</b> ED <b>K</b> AL <b>A</b> DE <b>I</b> TL <b>K</b> IK <b>E</b> SI <b>G</b> SNEE <b>I</b> MP <b>L</b> PD..E <b>P</b> LEE..ME.....   | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1     | DT <b>K</b> L <b>G</b> GRD <b>T</b> V <b>K</b> EL <b>I</b> K <b>D</b> NP <b>E</b> LA <b>E</b> EL <b>A</b> K <b>I</b> RE <b>K</b> L <b>Q</b> AK.....  | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1    | GT <b>K</b> IGQ <b>C</b> K <b>N</b> NA <b>V</b> K <b>V</b> LKEN <b>P</b> E <b>I</b> AD <b>K</b> LE <b>Q</b> E <b>I</b> R <b>N</b> TL <b>A</b> SNP <b>N</b> SVL <b>K</b> AT..ASDS <b>N</b> DES <b>D</b> VE <b>F</b> SE.....EEL.....                                     | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1     | G <b>A</b> KIGQ <b>G</b> K <b>D</b> N <b>V</b> R <b>V</b> WLKEN <b>P</b> E <b>I</b> S <b>D</b> E <b>I</b> DA <b>K</b> TR <b>A</b> LN <b>C</b> V <b>E</b> M <b>H</b> IT <b>E</b> GT <b>Q</b> ..DE <b>T</b> D <b>G</b> .....ER <b>P</b> E.....E.....                     | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1     | G <b>A</b> KIGQ <b>G</b> K <b>D</b> N <b>V</b> R <b>V</b> WLKEN <b>P</b> E <b>I</b> S <b>D</b> E <b>I</b> DA <b>K</b> TR <b>A</b> LN <b>C</b> V <b>E</b> M <b>H</b> IT <b>E</b> GT <b>Q</b> ..DE <b>T</b> D <b>G</b> .....ER <b>P</b> E.....E.....                     | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1    | G <b>A</b> KIGQ <b>G</b> K <b>D</b> N <b>V</b> R <b>V</b> WLKEN <b>P</b> E <b>I</b> S <b>D</b> E <b>I</b> DA <b>K</b> TR <b>A</b> LN <b>C</b> V <b>E</b> M <b>H</b> IT <b>E</b> GT <b>Q</b> ..DE <b>T</b> D <b>G</b> .....ER <b>P</b> E.....E.....                     | 348 |
| NTDB id 77827 ICHIAU1 RS02900 WP 162048788.1 | GE <b>K</b> IGQ <b>G</b> K <b>D</b> N <b>V</b> RE <b>F</b> L <b>K</b> TR <b>P</b> EM <b>A</b> KE <b>I</b> EA <b>R</b> TE <b>A</b> AG <b>I</b> TTIG <b>G</b> AK <b>P</b> AP..AG <b>D</b> DA.....  | 343 |
| NTDB id 1427 RS RS02760 WP 011000510.1       | GE <b>R</b> IGQ <b>C</b> R <b>D</b> N <b>C</b> RE <b>F</b> LE <b>N</b> AE <b>L</b> ARE <b>I</b> EN <b>K</b> VRE <b>H</b> LC <b>V</b> TP <b>M</b> G <b>A</b> VT <b>L</b> A..EE <b>V</b> EED.....  | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1  | G <b>D</b> KIGQ <b>G</b> K <b>A</b> NA <b>C</b> K <b>Y</b> LKEN <b>P</b> E <b>I</b> AK <b>T</b> LD <b>K</b> K <b>L</b> RE <b>M</b> LL <b>N</b> PEN <b>M</b> QL <b>I</b> AE..T <b>S</b> SA <b>A</b> DD <b>V</b> E <b>F</b> G <b>A</b> V <b>P</b> E.....E <b>F</b> ..... | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1    | G <b>D</b> KIGQ <b>G</b> K <b>A</b> NA <b>C</b> K <b>Y</b> LKEN <b>P</b> E <b>I</b> AK <b>T</b> LD <b>K</b> K <b>L</b> RE <b>M</b> LL <b>N</b> PEN <b>M</b> QL <b>I</b> AE..T <b>S</b> SA <b>A</b> DD <b>V</b> E <b>F</b> G <b>A</b> V <b>P</b> E.....E <b>F</b> ..... | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1        | G <b>S</b> KIGQ <b>C</b> K <b>A</b> NA <b>A</b> K <b>Y</b> LE <b>N</b> PE <b>I</b> GG <b>E</b> IE <b>Q</b> Q <b>I</b> RA <b>K</b> LL <b>V</b> TS <b>A</b> NT <b>K</b> AT <b>P</b> ..VA <b>E</b> D <b>L</b> AD <b>A</b> D <b>I</b> .....                                | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1    | G <b>N</b> KIGQ <b>G</b> K <b>N</b> N <b>V</b> IR <b>Y</b> LE <b>N</b> <b>P</b> Q <b>I</b> ST <b>E</b> IE <b>A</b> V <b>I</b> RE <b>Q</b> LL <b>T</b> K <b>A</b> S <b>D</b> Q <b>T</b> AA...H <b>D</b> ET <b>E</b> EE <b>P</b> D <b>L</b> L..E <b>S</b> .....          | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1     | G <b>N</b> KIGQ <b>G</b> K <b>N</b> N <b>V</b> IR <b>Y</b> FE <b>N</b> N <b>Q</b> IA <b>E</b> IE <b>R</b> N <b>I</b> RE <b>Q</b> LL <b>T</b> T <b>G</b> T <b>N</b> G <b>A</b> V <b>Q</b> ...I.E <b>D</b> EE <b>E</b> P <b>D</b> L <b>L</b> ..L <b>E</b> .....S.....    | 349 |
| consensus                                    | ***!!!***** ** * *** ***** ** **   |     |

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| NTDB id 600 KW2 RS01765 WP 011675413.1       | . | . | . | . | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1     | E | I | E | E | 388 |
| NTDB id 228 SPD RS09265 WP 001085462.1       | E | I | E | E | 388 |
| NTDB id 194 SPR RS08825 WP 001085462.1       | E | I | E | E | 388 |
| NTDB id 159 SP RS09750 WP 001085462.1        | E | I | E | E | 388 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1   | E | I | E | E | 384 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1   | E | I | E | E | 384 |
| NTDB id 408 SMU RS09530 WP 002262392.1       | E | D | . | . | 383 |
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| NTDB id 115 BSU 16940 NP 389576.2            | . | . | . | . | 348 |
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| NTDB id 1313 DR RS12030 WP 010888966.1       | . | . | . | . | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1          | . | . | . | . | 343 |
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| NTDB id 1214 NCTC11637 00359 SQJ03206.1      | . | . | . | . | 347 |
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| NTDB id 1130 NGFG RS03960 WP 003688695.1     | . | . | . | . | 348 |
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| consensus                                    |   |   |   |   |     |

 non conserved  
 similar  
 ≥ 50% conserved