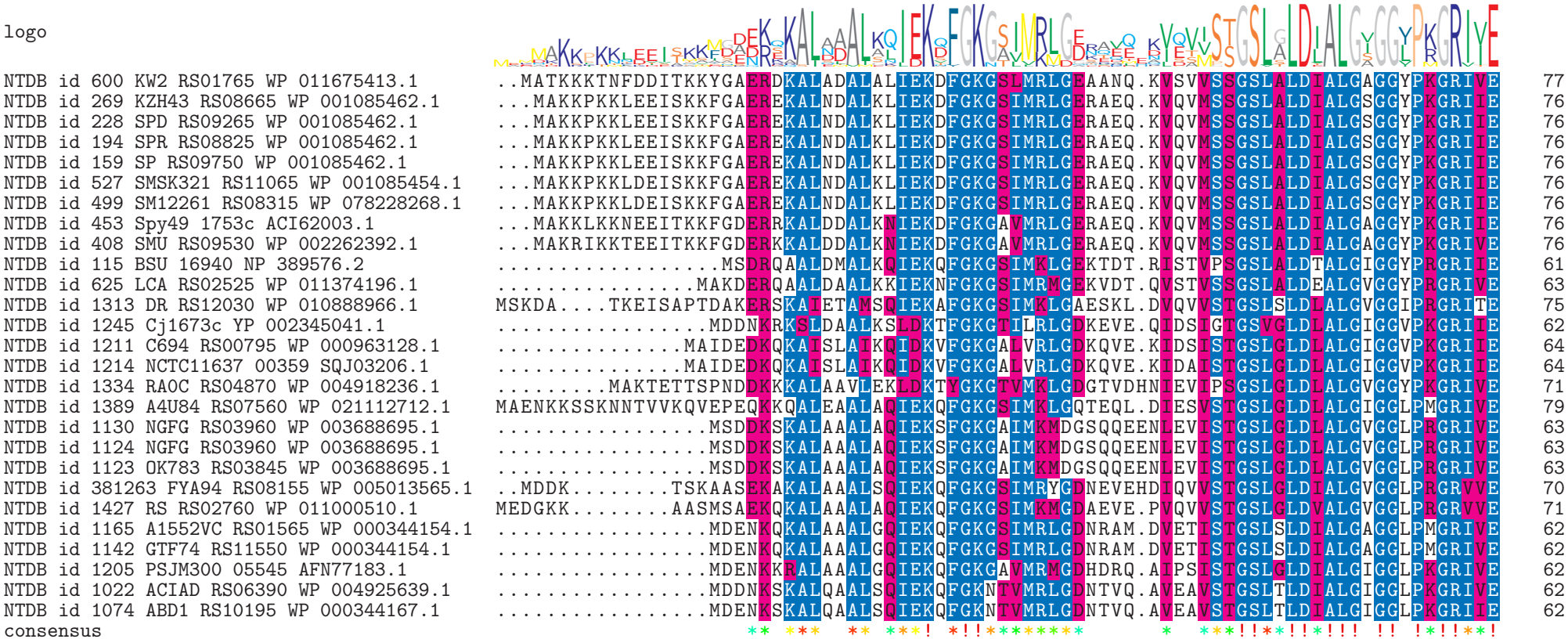
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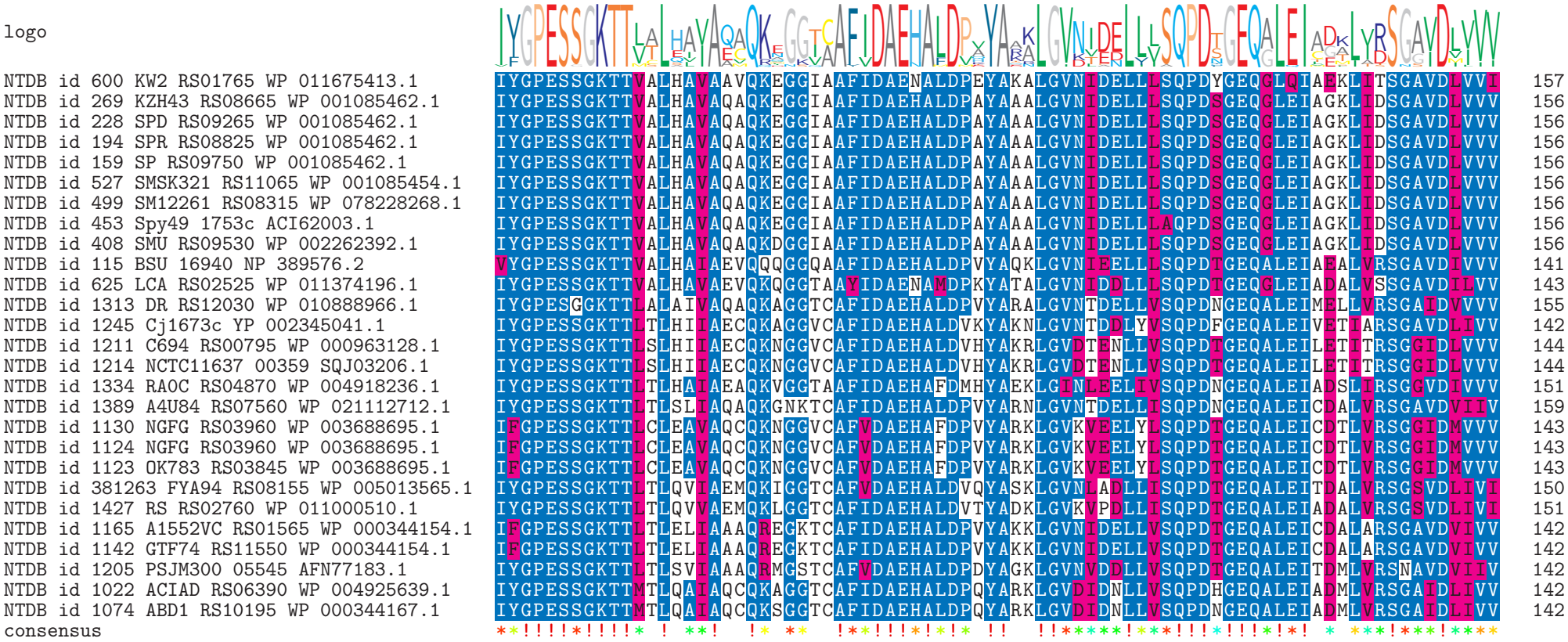
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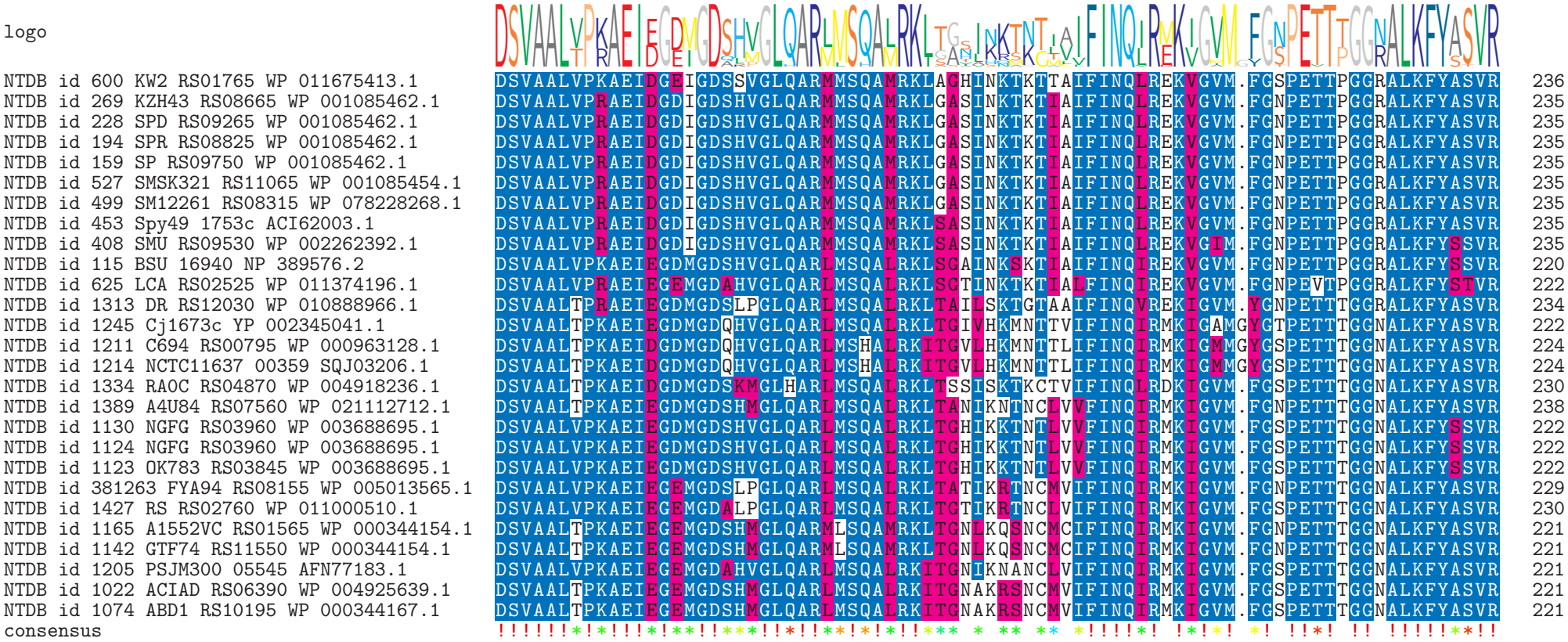
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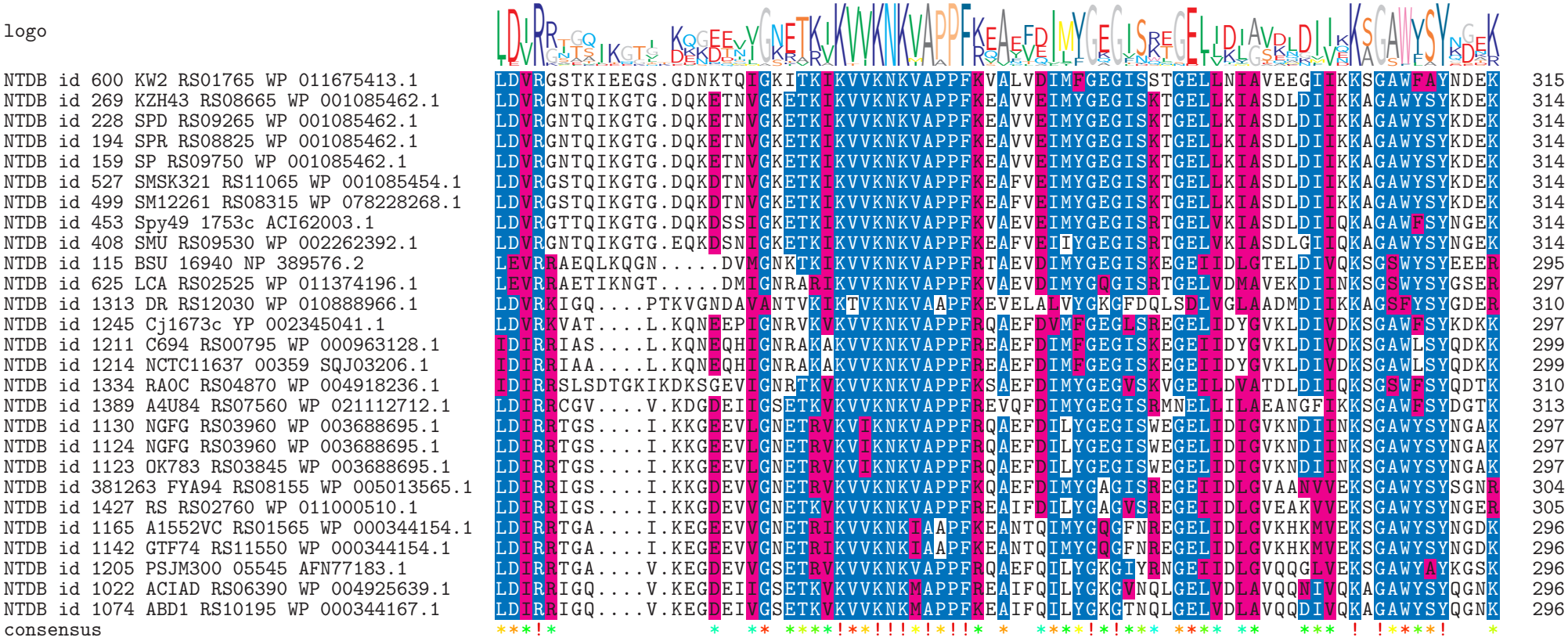
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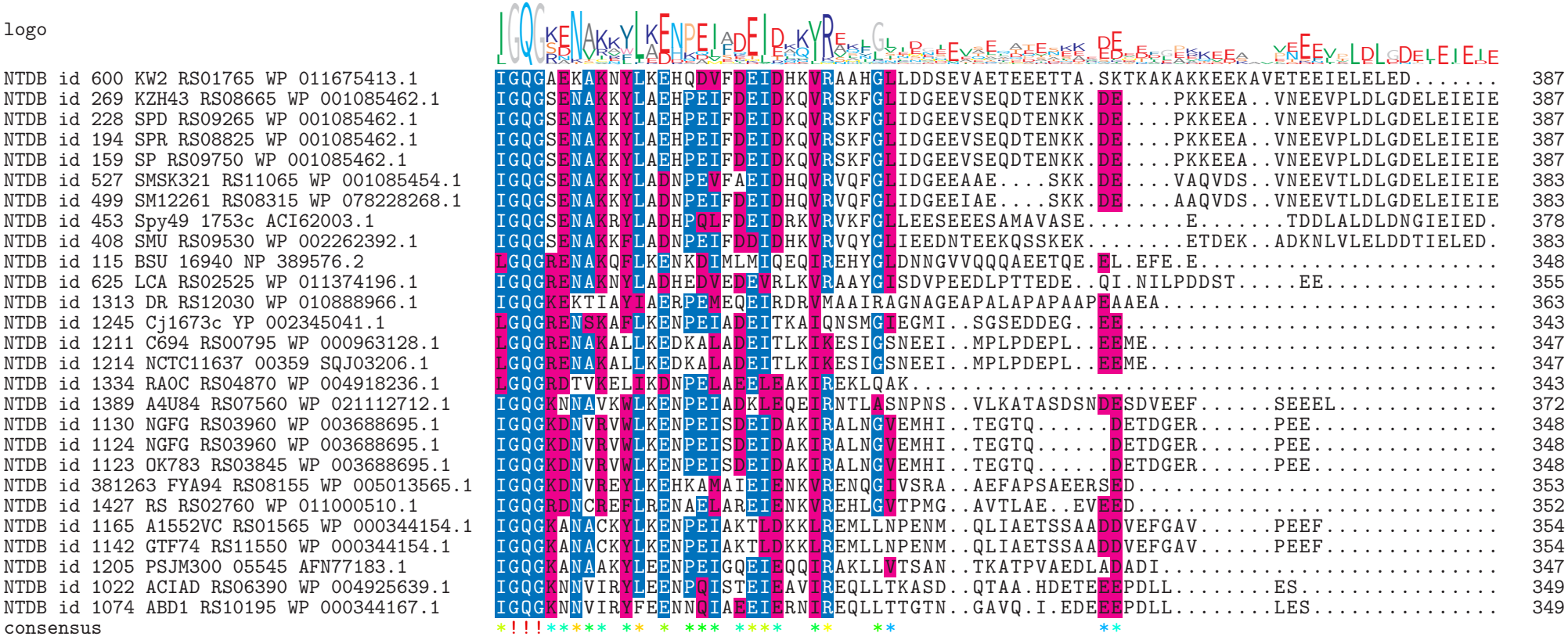
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NTDB id 499 SM12261 RS08315 WP 078228268.1 IGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKK.DE....AAQVDS..VNEEVTLDLGDELEIEIE 383
NTDB id 453 Spy49 1753c ACI62003.1 IGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE........E.......TDDLALDLDNGIEIED. 378
NTDB id 408 SMU RS09530 WP 002262392.1 IGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK........ETDEK..ADKNLVLELDDTIELED. 383
NTDB id 115 BSU 16940 NP 389576.2 LGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQE.EL.EFE.E..... 348
NTDB id 625 LCA RS02525 WP 011374196.1 IGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE..QI.NILPDDST.....EE..... 355
NTDB id 1313 DR RS12030 WP 010888966.1 IGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA..... 363
NTDB id 1245 Cj1673c YP 002345041.1 LGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMI..SGSEDDEG..EE..... 343
NTDB id 1211 C694 RS00795 WP 000963128.1 LGQGRENAKALLKEDKALADEITLKIKESIGSNEEI..MPLPDEPL..EEME..... 347
NTDB id 1214 NCTC11637 00359 SQJ03206.1 LGQGRENAKALLKEDKALADEITLKIKESIGSNEEI..MPLPDEPL..EEME..... 347
NTDB id 1334 RA0C RS04870 WP 004918236.1 LGQGRDTVKELIKDNPELAEELEAKIREKLQAK..... 343
NTDB id 1389 A4U84 RS07560 WP 021112712.1 IGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS..VLKATASDSNDESDVEEF......SEEEL..... 372
NTDB id 1130 NGFG RS03960 WP 003688695.1 IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI..TEGTQ......DETDGER......PEE..... 348
NTDB id 1124 NGFG RS03960 WP 003688695.1 IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI..TEGTQ......DETDGER......PEE..... 348
NTDB id 1123 OK783 RS03845 WP 003688695.1 IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI..TEGTQ......DETDGER......PEE..... 348
NTDB id 381263 FYA94 RS08155 WP 005013565.1 IGQGKDNVREYLKEHKAMAIEIENKVRENQGIVSRA..AEFAPSAEERSED..... 353
NTDB id 1427 RS RS02760 WP 011000510.1 IGQGRDNCREFLRENAELAREIENKVREHLGVTPMG..AVTLAE..EVEED..... 352
NTDB id 1165 A1552VC RS01565 WP 000344154.1 IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM..QLIAETSSAADDVEFGAV......PEEF..... 354
NTDB id 1142 GTF74 RS11550 WP 000344154.1 IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM..QLIAETSSAADDVEFGAV......PEEF..... 354
NTDB id 1205 PSJM300 05545 AFN77183.1 IGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN..TKATPVAEDLADADI..... 347
NTDB id 1022 ACIAD RS06390 WP 004925639.1 IGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASD..QTAA.HDETEEEPDLL.....ES..... 349
NTDB id 1074 ABD1 RS10195 WP 000344167.1 IGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN..GAVQ.I.EDEEEPDLL.....LES..... 349
consensus

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logo
                                          E
NTDB id 600 KW2 RS01765 WP 011675413.1    .   387
NTDB id 269 KZH43 RS08665 WP 001085462.1  E   388
NTDB id 228 SPD RS09265 WP 001085462.1    E   388
NTDB id 194 SPR RS08825 WP 001085462.1    E   388
NTDB id 159 SP RS09750 WP 001085462.1     E   388
NTDB id 527 SMSK321 RS11065 WP 001085454.1 E  384
NTDB id 499 SM12261 RS08315 WP 078228268.1 E  384
NTDB id 453 Spy49 1753c ACI62003.1        .   378
NTDB id 408 SMU RS09530 WP 002262392.1    .   383
NTDB id 115 BSU 16940 NP 389576.2         .   348
NTDB id 625 LCA RS02525 WP 011374196.1    .   355
NTDB id 1313 DR RS12030 WP 010888966.1    .   363
NTDB id 1245 Cj1673c YP 002345041.1       .   343
NTDB id 1211 C694 RS00795 WP 000963128.1  .   347
NTDB id 1214 NCTC11637 00359 SQJ03206.1   .   347
NTDB id 1334 RA0C RS04870 WP 004918236.1  .   343
NTDB id 1389 A4U84 RS07560 WP 021112712.1 .   372
NTDB id 1130 NGFG RS03960 WP 003688695.1  .   348
NTDB id 1124 NGFG RS03960 WP 003688695.1  .   348
NTDB id 1123 OK783 RS03845 WP 003688695.1 .   348
NTDB id 381263 FYA94 RS08155 WP 005013565.1 .  353
NTDB id 1427 RS RS02760 WP 011000510.1    .   352
NTDB id 1165 A1552VC RS01565 WP 000344154.1 .  354
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
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X non conserved
X similar
X ≥ 50% conserved