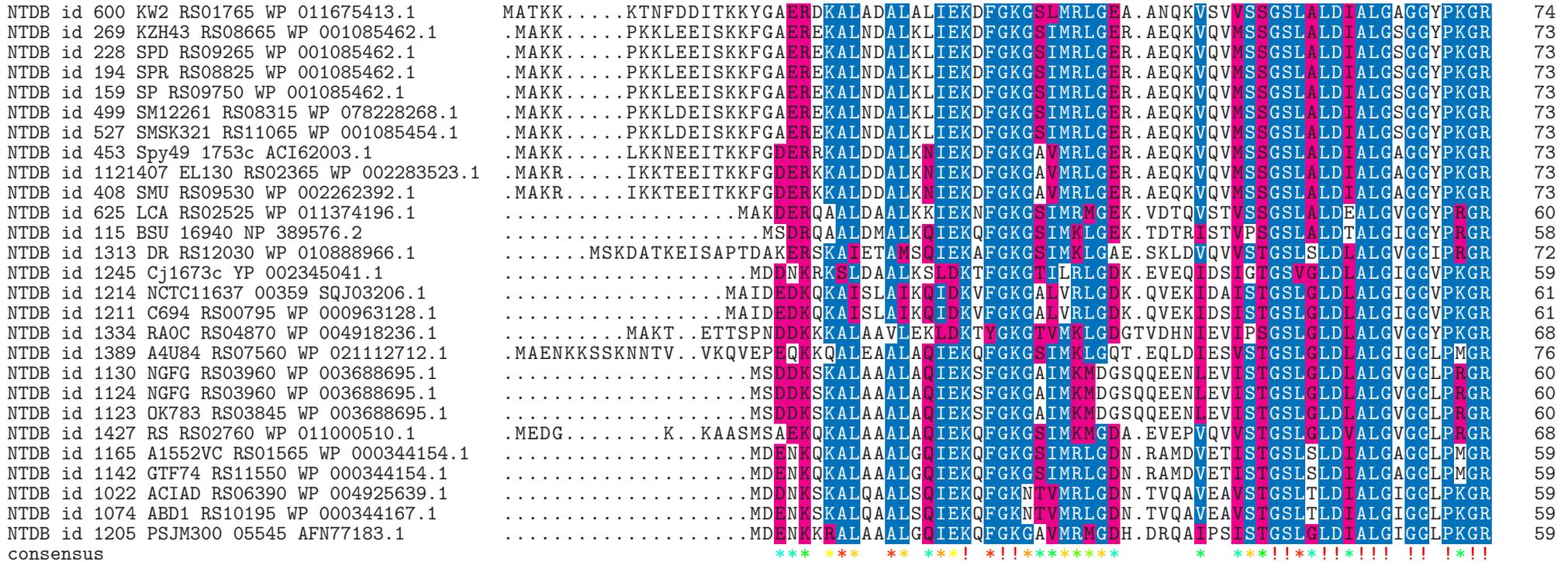


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NTDB id 600 KW2 RS01765 WP 011675413.1	VVIVDSVAALVLPKAEIDGDI	IGDSSVGLQARMSQAMRKL	AGHINKTKTTAIFINQLREKVGVM	FGSPETTPGGRALKFYA	233
NTDB id 269 KZH43 RS08665 WP 001085462.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	GASINKTKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYA	232
NTDB id 228 SPD RS09265 WP 001085462.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	GASINKTKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYA	232
NTDB id 194 SPR RS08825 WP 001085462.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	GASINKTKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYA	232
NTDB id 159 SP RS09750 WP 001085462.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	GASINKTKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYA	232
NTDB id 499 SM12261 RS08315 WP 078228268.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	GASINKTKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYA	232
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	GASINKTKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYA	232
NTDB id 453 Spy49 1753c ACI62003.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	SASINKTKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYA	232
NTDB id 1121407 EL130 RS02365 WP 002283523.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	SASINKTKTTAIFINQLREKVGIM	FCNPETTPGGRALKFYS	232
NTDB id 408 SMU RS09530 WP 002262392.1	VVVDSVAALVLPRAEIDGDI	IGDSHVGLQARMSQAMRKL	SASINKTKTTAIFINQLREKVGIM	FCNPETTPGGRALKFYS	232
NTDB id 625 LCA RS02525 WP 011374196.1	LVVDSVAALVLPRAEIEGEMGD	AHVGLQARMSQALRKL	SGTINKTKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYS	219
NTDB id 115 BSU 16940 NP 389576.2	VVVDSVAALVLPKAEIEGDMGDS	SHVGLQARMSQALRKL	SGAINKSKTTAIFINQLREKVGVM	FCNPETTPGGRALKFYS	217
NTDB id 1313 DR RS12030 WP 010888966.1	VVVDSVAALTPRAEIEGDMGDS	LPGLQARMSQALRKL	TALISKTTGTAIFINQVREKVGVM	YGNPETTTGGRALKFYA	231
NTDB id 1245 Cj1673c YP 002345041.1	IVVDSVAALTPKAEIEGDMGDQ	QHVGLQARMSQALRKL	TGIVLHKMNTTVIFINQLRMKIGAM	GYGTPETTTGGNALKFYA	219
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VVVDSVAALTPKAEIDGDMGDQ	QHVGLQARMSHALRKL	TGIVLHKMNTTLLIFINQLRMKIGM	MGYGPETTTGGNALKFYA	221
NTDB id 1211 C694 RS00795 WP 000963128.1	VVVDSVAALTPKAEIDGDMGDQ	QHVGLQARMSHALRKL	TGIVLHKMNTTLLIFINQLRMKIGM	MGYGPETTTGGNALKFYA	221
NTDB id 1334 RA0C RS04870 WP 004918236.1	VVVDSVAALTPKAEIDGDMGDS	KMGLHARMSQALRKL	TSSISKTKCTVIFINQLRDKIGVM	FGSPETTTGGNALKFYA	227
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IIVDSVAALTPKAEIEGDMGDS	HMLQARMSQALRKL	TANIKNTNCLVVFINQLRMKIGVM	FCNPETTTGGNALKFYA	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	VVVDSVAALVLPKAEIEGDMGDS	SHVGLQARMSQALRKL	TGHIKKTNTLVVFINQLRMKIGVM	FGSPETTTGGNALKFYS	219
NTDB id 1124 NGFG RS03960 WP 003688695.1	VVVDSVAALVLPKAEIEGDMGDS	SHVGLQARMSQALRKL	TGHIKKTNTLVVFINQLRMKIGVM	FGSPETTTGGNALKFYS	219
NTDB id 1123 OK783 RS03845 WP 003688695.1	VVVDSVAALVLPKAEIEGDMGDS	SHVGLQARMSQALRKL	TGHIKKTNTLVVFINQLRMKIGVM	FGSPETTTGGNALKFYS	219
NTDB id 1427 RS RS02760 WP 011000510.1	IVIVDSVAALVLPKAEIEGEMGD	ALPGLQARMSQALRKL	TGTLKKTNCLVIFINQLRMKIGVM	FGSPETTTGGNALKFYA	227
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVVDSVAALTPKAEIEGEMGDS	HMLQARMSQAMRKL	TGNLKKQSNCMCIFINQLRMKIGVM	FCNPETTTGGNALKFYA	218
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVVDSVAALTPKAEIEGEMGDS	HMLQARMSQAMRKL	TGNLKKQSNCMCIFINQLRMKIGVM	FCNPETTTGGNALKFYA	218
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVVDSVAALTPKAEIEGEMGDS	HMLQARMSQALRKL	TGNNAKRSNCMVIFINQLRMKIGVM	FGSPETTTGGNALKFYA	218
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IVVDSVAALTPKAEIEGEMGDS	HMLQARMSQALRKL	TGNNAKRSNCMVIFINQLRMKIGVM	FGSPETTTGGNALKFYA	218
NTDB id 1205 PSJM300 05545 AFN77183.1	IIVDSVAALVLPKAEIEGEMGD	AHVGLQARMSQALRKL	TGNLKNANCLVIFINQLRMKIGVM	FGSPETTTGGNALKFYA	218
consensus	***!!!!!!*!*	***!!!!!!*!*	***!!!!!!*!*	***!!!!!!*!*	***!!!!!!*!*



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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGGQGAEKAKNYLKEHQDVFEIDHKVRAAHGILLDDSEVAETEETTASKTKAKAKKEEKAVETEEIELELED....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILIDGEEVSEQDTEENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILIDGEEVSEQDTEENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILIDGEEVSEQDTEENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGGQGSSENAKKYLAEHPEIFDEIDKQVRSKFCILIDGEEVSEQDTEENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGGQGSSENAKKYLADNPEIFDEIDHQVVRVQFCILIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGGQGSSENAKKYLADNPEVFAEIDHQVVRVQFCILIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGGQGSSENAKRYLADHPQLFDEIDRKVRVKFCILLEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 1121407 EL130 RS02365 WP 002283523.1	GEKIGGQGSSENAKKFLADNPEIFDDIVHKVVRVQFCILIEEDNTEEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGGQGSSENAKKFLADNPEIFDDIDHKVVRVQFCILIEEDNTEEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGGQGRENAKNYLADHEDVEDEVRLKVRVRAAYGILSDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 115 BSU 16940 NP 389576.2	EERIGGQGRENAKQFLKENKIDMLMIQEQTREHYGILDNNGVVQQQAEETQEEL.EFE.E.....	348
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGGQKKEKTIAVIAERPMEQEIRDRVMAATRAGNAGEAPALAPAPAAPEAAE..A.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKIGGQGRENSKAEFLKENPEIADAITKATIQNSMCIIEGMI....SGSEDD..EGE..E.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKIGGQGRENAKALLKEDKALADEITLKIRESICSNEEI....MPLPDE..PLE..EME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKIGGQGRENAKALLKEDKALADEITLKIRESICSNEEI....MPLPDE..PLE..EME.....	347
NTDB id 1334 RA0C RS04870 WP 004918236.1	DTKIGGQRDITVKELTKDNPEIAEELLEAKITREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGGQKKNNAVVKWLKENPEIADKLEQEIIRNTLASNPNS....VLKATASDSND..ESDVVEEFSEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVVRVWLKENPEISDEIDAKTRALNCVEMHI....TEGTQDETDGE..R.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVVRVWLKENPEISDEIDAKTRALNCVEMHI....TEGTQDETDGE..R.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGGQKDNVVRVWLKENPEISDEIDAKTRALNCVEMHI....TEGTQDETDGE..R.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGGQRDNCREFLRENAEIAREIENKVRREHLGVTPMG....AVTLA.EEVVEE..D.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGGQKANACKYLLKENPEIAKTLDKKLREMLLPENM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGGQKANACKYLLKENPEIAKTLDKKLREMLLPENM....QLIAETSSAAD..DVEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGGQKNNVIRYLEENPCISTEIEAVIREQLLTKASD....QTAA.HDETEE..EPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGGQKNNVIRYFEENPCIAEIEIRNIREQLLTTGTN....GAVQ.I.EDEE..EPDLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGGQKANAAKYLLKENPEIQEIEQQIRAKLLVTSAN....TKATPVAEDLA..DADI.....	347
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NTDB id 600 KW2 RS01765 WP 011675413.1 ... 387
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
NTDB id 527 SMSK321 RS11065 WP 001085454.1 IEE 384
NTDB id 453 Spy49 1753c ACI62003.1 D.. 378
NTDB id 1121407 EL130 RS02365 WP 002283523.1 D.. 383
NTDB id 408 SMU RS09530 WP 002262392.1 D.. 383
NTDB id 625 LCA RS02525 WP 011374196.1 ... 355
NTDB id 115 BSU 16940 NP 389576.2 ... 348
NTDB id 1313 DR RS12030 WP 010888966.1 ... 363
NTDB id 1245 Cj1673c YP 002345041.1 ... 343
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NTDB id 1211 C694 RS00795 WP 000963128.1 ... 347
NTDB id 1334 RA0C RS04870 WP 004918236.1 ... 343
NTDB id 1389 A4U84 RS07560 WP 021112712.1 ... 372
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NTDB id 1074 ABD1 RS10195 WP 000344167.1 ... 349
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consensus
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