CLUSTAL O(1.2.4) multiple sequence alignment

NewYorkH3 mktiialsyilclvfaqklpgndnstatlclghhavpngtivktitndqievtnatelvq 60

HongkongH3 mktiialsyilclvfaqklpgndnstatlclghhavpngtvvktitndqievtnatelvq 60

IllinoisH3 mktiialsyilclvfaqklpgndnstatlclghhavpngtivktitndqievtnatelvq 60

DenmarkH3 mktiialsyilclvfaqklpgndnstatlclghhavpngtivktitndqievtnatelvq 60

HongkongH1 MK--AKLLVLLCTFT-------ATYADTICIGYHANNSTDTVDTVLEKNVTVTHSVNLLE 51

SouthCaroH1 ME--ARLLVLLCAFA-------ATNADTICIGYHANNSTDTVDTVLEKNVTVTHSVNLLE 51

MongoliaH1 MK--ANLLVLLCALA-------AADADTICIGYHANNSTDTVDTVLEKNVTVTHSVNLLE 51

TurkeyMNH3 -M--ERIVIALAIIS-------VVKGDQICIGYHANNSTEQVDTIMEKNVTVTHAQDILE 50

TaiwanDuckH5 -M--RKIVLFLSIVS-------LVNSDKICIGYHANNSTAKVDTIIEKNVTVTHAKDILE 50

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NewYorkH3 ssstggicdsph-qildgenctlidallgdpqcdgfqn-kkwdlfversk-aysncypyd 117

HongkongH3 ssstggicdsph-qildgenctlidallgdpqcdgfqn-kkwdlfversk-aysncypyd 117

IllinoisH3 ssstggicdsph-qildgenctlidallgdpqcdgfqn-kkwdlfversk-aysncypyd 117

DenmarkH3 ssstggicdsph-qildgenctlidallgdpqcdgfqn-kkwdlfiersk-aysncypyd 117

HongkongH1 DSHNGKLCLLKGIAPLQLGNCSVAGWILGNPECELLIPKESWSYIVETPNPENGTCYPGY 111

SouthCaroH1 DSHNGKLCKLKGIAPLQLGKCNIAGWLLGNPECDLLLTASSWSYIVETSNSENGTCYPGD 111

MongoliaH1 DSHNGKLCRLKGIAPLQLGKCNIAGWLLGNPECDPLLPVRSWSYIVETPNSENGICYPGD 111

TurkeyMNH3 KEHNGKLCSLKGVRPLILKDCSVAGWLLGNPMCDEFLNVPEWSYIVEKDNPVNGLCYPGD 110

TaiwanDuckH5 KKHNGKLCDLNGVKPLILKDCSVAGWLLGNPMCDEFLMVPEWSYIVEKNNPANGLCYPGD 110

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NewYorkH3 vpdyaslrslvassgtle---fnnesfnwtgvt-qngtssackrrsnnsffsrlnwlthl 173

HongkongH3 vpdyaslrslvassgtle---fnnesfnwtgvt-qngtssackrrsnksffsrlnwlthl 173

IllinoisH3 vpdyvslrslvassgtle---fnnesfnwtgvt-qngtssackrrsnnsffsrlnwlthl 173

DenmarkH3 vpdyaslrslvassgtle---fnnesfnwtgvt-qngtssackrrsnnsffsrlnwlthl 173

HongkongH1 FADYEELREQLSSVSSFERFEIFPKESSWPNHTV-TGVSASCSHNGKSSFYRNLLWLTGK 170

SouthCaroH1 FIDYEELREQLSSVSSFEKFEIFPKTSSWPNHETTKGVTAACSYAGASSFYRNLLWLTKK 171

MongoliaH1 FIDYEELREQLSSVSSFERFEIFPKESSWPNHNT-NGVTAACSHEGKSSFYRNLLWLTEK 170

TurkeyMNH3 FNDYEELKHLMSSTNHFEKIQIIPR-SSWSNHDASSGVSSACPYNGRSSFFRNVVWLIKK 169

TaiwanDuckH5 FQDYEELKHLLSSTTHFGKIQIFPR-NSWPQHDT-SGVTAACPFSGRSSFFRNMVWLTKK 168

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NewYorkH3 kfkypalnvtmpnnekfdklyiwgvhhpgtdndqislyaqasgritvstkrsqqtvipsi 233

HongkongH3 kfkypalnvtmpnnekfdklyiwgvhhpgtdndqislyaqasgritvstkrsqqtvipni 233

IllinoisH3 kfkypalnvtmpntekfdklyiwgvhhpgtdndqislyaqasgritvstkrsqqtvipni 233

DenmarkH3 kfkypalnvtmpnnekfdklyiwgvhhpgtdndqislyaqasgritvstkrsqqtvipni 233

HongkongH1 NGLYPNLSKSYVNNKEKEVLVLWGVHHPPNIGDQRAIYHTENAYVSVVSSHYSRRFTPEI 230

SouthCaroH1 GSSYPKLSKSYVNNKGKEVLVLWGVHHPPTGTDQQSLYQNADAYVSVGSSKYNRRFTPEI 231

MongoliaH1 EGSYPKLKNSYVNKKGKEVLVLWGIHHPPNSKEQQNLYQNENAYVSVVTSNYNRRFTPEI 230

TurkeyMNH3 NNAYPTIKRTYNNTNMEDLLILWGIHHPNDAAEQTKLYQNSNTYVSVGTSTLNQRSIPEI 229

TaiwanDuckH5 NNEYLTIKRSYKNTNQEDLLIMWGIHHPNHDEEQVRLYKNPRTYISVGTSTLNQRLSPII 228

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NewYorkH3 gsrprirdvpsrisiywtivkpgdillinstgnliaprgyfki-rsgkssimrsdapigk 292

HongkongH3 gsrprvrdvpsrisiywtivkpgdillinstgnliaprgyfki-rsgkssimrsdapigk 292

IllinoisH3 gsrprvrdipsrisiywtivkpgdillinstgnliaprgyfki-rsgkssimrsdapigk 292

DenmarkH3 gsrprvrdipsrisiywtivkpgdillinstgnliaprgyfki-rsgkssimrsdapigk 292

HongkongH1 VKRPKVRDQEGRINYYWTLLEPGDTIIFEANGNLIAPWYAFALSRGFGSGIITSNAPMDE 290

SouthCaroH1 AARPKVRDQAGRMNYYWTLLEPGDTITFEATGNLIAPWYAFALNRGSGSGIITSDAPVHD 291

MongoliaH1 AERPKVRDQAGRMNYYWTLLKPGDTIIFEANGNLIAPMYAFALSRGFGSGIITSNASMHE 290

TurkeyMNH3 ATRPKVNGQSGRMEFFWTILRPNDAISFESNGNFIAPEYAYKIVKKGDSAIMKSELEYGN 289

TaiwanDuckH5 AERPPVNGQSGRMSFYWTILKPSDTINFETNGNFIPPEYAFKIVKKGDSAIIRSELEYGN 288

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NewYorkH3 cnsecitpngsipndkpfqnvnritygacpryvkqntlklatgmrnvpekqtrgifgaia 352

HongkongH3 cnsecitpngsipndkpfqnvnritygacpryvkqntlklatgmrnvpekqtrgifgaia 352

IllinoisH3 cnsecitpngsipndkpfqnvnritygacpryvkqntlklatgmrnvpekqtrgifgaia 352

DenmarkH3 cnsecitpngsipndkpfqnvnritygacpryvkqntlklatgmrnvpekqtrgifgaia 352

HongkongH1 CDAKCQTPQGAINSSLPFQNVHPVTIGECPKYVRSAKLRMVTGLRNIPSIQSRGLFGAIA 350

SouthCaroH1 CNTKCQTPHGAINSSLPFQNIHPVTIGECPKYVRSTKLRMATGLRNIPSIQSRGLFGAIA 351

MongoliaH1 CNTKCQTPLGAINSSLPYQNIHPVTIGECPKYVRSAKLRMVTGLRNIPSIQSRGLFGAIA 350

TurkeyMNH3 CNTKCQTPVGAINSSMPFHNVHPFTIGECPKYVKSDKLVLATGPRNVPQRETRGLFGAIA 349

TaiwanDuckH5 CNTRCQTPMGALNSSMPFQNIHPITIGECPKYVKSNRLVLATGLRNIPQIETRGLFGAIA 348

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NewYorkH3 gfiengwegmvdgwygfrhqnsegtgqaadlkstqaainqingklnrligktnekfhqie 412

HongkongH3 gfiengwegmvdgwygfrhqnsegtgqaadlkstqaainqingklnrligktnekfhqie 412

IllinoisH3 gfiengwegmvdgwygfrhqnsegigqaadlkstqaainqingklnrligktnekfhqie 412

DenmarkH3 gfiengwegmvdgwygfrhqnsegigqaadlkstqaainqingklnrligktnekfhqie 412

HongkongH1 GFIEGGWTGMVDGWYGYHHQNEQGSGYAADQKSTQNAINGITNKVNSVIEKMNTQFTAVG 410

SouthCaroH1 GFIEGGWTGMIDGWYGYHHQNEQGSGYAADQKSTQNAIDGITNKVNSVIEKMNTQFTAVG 411

MongoliaH1 GFIEGGWTGMIDGWYGYHHQNEQGSGYAADQKSTQNAINGITNKVNTVIEKMNIQFTAVG 410

TurkeyMNH3 GFIEGGWQGMVDGWYGYHHSNEQGSGYAADKESTQKAIDGITNKVNSIIDKMNTQFEAVG 409

TaiwanDuckH5 GFIEGGWQGMVDGWYGYHHSNDQGSGYAADKESTQRAIDGITNKVNSIIDKMNTQFEAVG 408

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NewYorkH3 kefsevegriqdlekyvedtkidlwsynaellvalenqhtidltdsemnklfertkkqlr 472

HongkongH3 kefsevegriqdlekyvedtkidlwsynaellvalenqhtidltdsemnklfertkkqlr 472

IllinoisH3 kefsevegriqdlekyvedtkidlwsynaellvalenqhtidltdsemnklfertkkqlr 472

DenmarkH3 kefsevegriqdlekyvedtkvdlwsynaellvalenqhtidltdsemnklfertkkqlr 472

HongkongH1 KEFNKLERRMENLNKKVDDGFLDIWTYNAELLVLLENERTLDFHDSNVKNLYEKVKSQLK 470

SouthCaroH1 KEFNNLERRIENLNKKVDDGFLDIWTYNAELLVLLENERTLDFHDSNVRNLYEKVKSQLK 471

MongoliaH1 KEFNKLEKRMENLNKKVDDGFLDIWTYNAELLVLLENERTLEFHDSNVKNLYGKVKSQLK 470

TurkeyMNH3 KEFNNLERRIENLNKKMEDGFLDVWTYNAELLVLMENERTLDFHDSNVRNLYDKVRLQLR 469

TaiwanDuckH5 KEFNNLERRIGNLNKKMEDGFLDIWTYNAELLVLMENERTLDLHDSNVKNLYDKVRLQLK 468

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NewYorkH3 enaedmgngcfkiyhkcdnacigsirngtydhdvyrdealnnrfqikgvelksgykdwil 532

HongkongH3 enaedmgngcfkiyhkcdnacigsirngtydhdvyrdealnnrfqikgvelksgykdwil 532

IllinoisH3 enaedmgngcfkiyhkcdnacigsirngtydhdvyrdealnnrfqikgvelksgykdwil 532

DenmarkH3 enaedmgngcfkiyhkcdnacigsirngtynhdvyrdealnnrfqikgvelksgykdwil 532

HongkongH1 NNAKEIGNGCFEFYHKCNNECMESVKNGTYDYPKYSEESKLNREKIDGVKLESMGVYQIL 530

SouthCaroH1 NNAKEIGNGCFEFYHKCDDACMESVRNGTYDYPKYSEESKLNREEIDGVKLESMGVYQIL 531

MongoliaH1 NNAKEIGNGCFEFYHKCDNECMESVRNGTYDYPKYSEESKLNREKVDGVKLESMGIYQIL 530

TurkeyMNH3 DNAKELGNGCFEFYHKCDNECMESVRNGTYDYPQYSEESRLNREEIDGVKLESMGTYQIL 529

TaiwanDuckH5 DNAKELGNGCFEFHHKCNNECMESVKNGTYNYPHYSEEARLKREEISGVKLESIGTYQIL 528

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NewYorkH3 -wisfaiscfllcvallgfimwacqkgnircnici 566

HongkongH3 -wisfaiscfllcvallgfimwacqkgnircnici 566

IllinoisH3 -wisfaiscfllcvallgfimwacqkgnircnici 566

DenmarkH3 -wisfaiscfllcvallgfimwacqkgnircnici 566

HongkongH1 AIYSTVASSLVLLVSLGAISFWMCSNGSLQCRICI 565

SouthCaroH1 AIYSTVASSLVLLVSLGAISFWMCSNGSLQCRICI 566

MongoliaH1 AIYSTVASSLVLLVSLGAISFWMCSNGSLQCRICI 565

TurkeyMNH3 SIYSTVASSLALAIMVAGLSFWMCSNGSLQCRICI 564

TaiwanDuckH5 SIYSTAASSLVLAIMIAGLSFWMCSNGSLQCRICI 563

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