NudC1

0.2

NudC2

0.2

p23A

Parabodo caudatus
Parabodo caudatus
Bodo sp.
Bodo saltans
Trypanosoma sp. TCC1307
Trypanosoma sp. TCC2186
Trypanosoma sp. TCC339
Trypanosoma sp. TCC878
Trypanosoma lewisi
Trypanosoma cyclops
Trypanosoma vivax
Trypanosoma congolense
Trypanosoma congolense
Trypanosoma evansi
Trypanosoma brucei brucei
Trypanosoma brucei gambiense
Trypanosoma brucei gambiense
Trypanosoma noyesi
Trypanosoma wauwau
Trypanosoma livingstonei
Trypanosoma erneyi
Trypanosoma dionisi
Trypanosoma ralphi
Trypanosoma grayi
Trypanosoma conorhini
Trypanosoma rangeli AM80
Trypanosoma cruzi marinkellei B7
Trypanosoma cruzi G
Angomonas deanei
Angomonas desouzai
Strigomonas oncopelti
Strigomonas galati
Strigomonas culicis
Herpetomonas wanderleyi
Herpetomonas muscarum
Phytomonas sp. Hart1
Phytomonas dolleti
Phytomonas sp. EM1
Phytomonas serpens
Phytomonas sp. TCC066E
Zelonia sp TCC2547
Zelonia costaricensis
Crithidia luciliae thermophila
Crithidia fasciculata
Crithidia acantocephali
Leptomonas pyrrhocoris
Endotrypanum monterogeii
Endotrypanum schaudinni
Leishmania martiniquensis
Leishmania enriettii
Leishmania braziliensis
Leishmania panamensis
Leishmania tarentolae
Leishmania amazonensis
Leishmania mexicana
Leishmania donovani
Leishmania aethiopica
Leishmania gerbilli
Leishmania tropica
Leishmania infantum
Leishmania major
Leishmania turanica
Leishmania arabica

p23b

Parabodo caudatus
Bodo saltans
Bodo sp.
Bodo sp.
Herpetomonas wanderleyi
Herpetomonas muscarum
Phytomonas dolleti
Phytomonas sp. Hart1
Phytomonas sp. EM1
Phytomonas serpens
Phytomonas sp. TCC066E
Crithidia luciliae thermophila
Leptomonas pyrrhocoris
Crithidia acantocephali
Crithidia fasciculata
Zelonia costaricensis
Zelonia sp. TCC2547
Leishmania enriettii
Leishmania martiniquensis
Endotrypanum schaudinni
Endotrypanum monterogeii
Leishmania panamensis
Leishmania braziliensis
Leishmania tarentolae
Leishmania donovani
Leishmania infantum
Leishmania tropica
Leishmania aethiopica
Leishmania amazonensis
Leishmania mexicana
Leishmania gerbilli
Leishmania turanica
Leishmania arabica
Leishmania major
Angomonas deanei
Angomonas desouzai
Strigomonas culicis
Strigomonas galati
Strigomonas oncopelti
Trypanosoma sp. TCC2186
Trypanosoma sp. TCC339
Trypanosoma sp. TCC1307
Trypanosoma sp. TCC878
Trypanosoma cyclops
Trypanosoma theileri
Trypanosoma theileri
Trypanosoma vivax
Trypanosoma congolense
Trypanosoma brucei brucei
Trypanosoma evansi
Trypanosoma brucei gambiense
Trypanosoma brucei gambiense
Trypanosoma ralphi
Trypanosoma grayi
Trypanosoma lewisi
Trypanosoma lewisi
Trypanosoma wauwau
Trypanosoma noyesi
Trypanosoma livingstonei
Trypanosoma rangeli AM80
Trypanosoma conorhini
Trypanosoma dionisii
Trypanosoma erneyi
Trypanosoma cruzi marinkellei B7
Trypanosoma cruzi G

0.3

Phylogenetic tree with the following taxa:

- *Bodo saltans* 100
- *Bodo* sp.
- *Parabodo caudatus* 100
- *Parabodo caudatus*
- *Trypanosoma* sp. TCC878 100
- *Trypanosoma* sp. TCC878
- *Trypanosoma* sp. TCC1307 60
- *Trypanosoma* sp TCC2186
- *Trypanosoma* sp. TCC339 72
- *Trypanosoma ralphi* 98
- *Trypanosoma grayi*
- *Trypanosoma theileri* 100
- *Trypanosoma cyclops*
- *Trypanosoma congolense*
- *Trypanosoma evansi* 95 72
- *Trypanosoma brucei gambiense* 100
- *Trypanosoma brucei*
- *Trypanosoma brucei*
- *Trypanosoma wauwau* 38
- *Trypanosoma lewisi*
- *Trypanosoma livingstonei* 59
- *Trypanosoma noyesi* 33
- *Trypanosoma rangeli* 93
- *Trypanosoma conorhini* 62
- *Trypanosoma cruzi marinkellei* B7 95
- *Trypanosoma cruzi* G 63
- *Trypanosoma dionisii* 55
- *Trypanosoma erneyi* 38
- *Phytomonas serpens* 82
- *Phytomonas* sp. TCC066E 100
- *Phytomonas* sp. EM1
- *Phytomonas dolleti* 54 91
- *Phytomonas* sp. Hart1
- *Herpetomonas wanderleyi* 98
- *Herpetomonas muscarum*
- *Angomonas deanei* 97
- *Angomonas desouzai* 71
- *Strigomonas galati* 100
- *Strigomonas culicis*
- *Strigomonas oncopelti* 70
- *Zelonia costaricensis* 95
- *Zelonia* sp. TCC2547
- *Crithidia luciliae thermophila* 99
- *Leptomonas pyrrchoris*
- *Crithidia acantocephali* 77
- *Crithidia fasciculata* 47
- *Leishmania enriettii* 57
- *Leishmania martiniquensis*
- *Endotrypanum monterogeii* 100
- *Endotrypanum schaudinni* 32
- *Leishmania braziliensis* 67
- *Leishmania panamensis* 100
- *Leishmania tropica* 15
- *Leishmania aethiopica* 91
- *Leishmania major*
- *Leishmania turanica* 92
- *Leishmania gerbilli* 42
- *Leishmania arabica*
- *Leishmania infantum*
- *Leishmania donovani* 82
- *Leishmania tarentolae*
- *Leishmania mexicana* 65
- *Leishmania amazonensis* 91

ACDp

0.4