**Onde começa e termina cada região?**

|  |  |  |  |
| --- | --- | --- | --- |
| **marcador** | **início** | **fim** | **Total de bp** |
| ETS | 1 | 641 | 641 |
| ITS | 642 | 1613 | 972 |
| MATK | 1614 | 2520 | 907 |
| NDHF | 2521 | 3310 | 790 |
| PSBA | 3311 | 4750 | 1440 |
| RPL16 | 4751 | 6068 | 1318 |
| RPL32 | 6069 | 7521 | 1453 |
| TRNLF | 7522 | 8485 | 964 |
| TRNQ | 8486 | 10312 | 1827 |
| All concatenated | 1 | 10312 | 10312 |

PARA ALTERAR NO SCRIPT DO R

# Extracting each region # FULL ALIGNMENT

ETS <- full\_alignment[,1:641]

ITS <- full\_alignment[,642:1613]

matK <- full\_alignment[,1614:2520]

ndhf <- full\_alignment[,2521:3310]

psba <- full\_alignment[,3311:4750]

rpl16 <- full\_alignment[,4751:6068]

rpl32 <- full\_alignment[,6069:7521]

trnlF <- full\_alignment[,7522:8485]

trnq <- full\_alignment[,8486:10312]

# Extracting each region # EUGENINAE ALIGNMENT

ETS <- Eugeninae\_alignment[,1:641]

ITS <- Eugeninae\_alignment[,642:1613]

matK <- Eugeninae\_alignment[,1614:2520]

ndhf <- Eugeninae\_alignment[,2521:3310]

psba <- Eugeninae\_alignment[,3311:4750]

rpl16 <- Eugeninae\_alignment[,4751:6068]

rpl32 <- Eugeninae\_alignment[,6069:7521]

trnlF <- Eugeninae\_alignment[,7522:8485]

trnq <- Eugeninae\_alignment[,8486:10312]

# Extracting each region # MYRCIINAE ALIGNMENT

ETS <- Myrciinae\_alignment[,1:641]

ITS <- Myrciinae\_alignment[,642:1613]

matK <- Myrciinae\_alignment[,1614:2520]

ndhf <- Myrciinae\_alignment[,2521:3310]

psba <- Myrciinae\_alignment[,3311:4750]

rpl16 <- Myrciinae\_alignment[,4751:6068]

rpl32 <- Myrciinae\_alignment[,6069:7521]

trnlF <- Myrciinae\_alignment[,7522:8485]

trnq <- Myrciinae\_alignment[,8486:10312]

# All 53

ETS <- 1:641

ITS <- 642:1613

matK <- 1614:2520

ndhf <- 2521:3310

psba <- 3311:4750

rpl16 <- 4751:6068

rpl32 <- 6069:7521

trnlF <- 7522:8485

trnq <- 8486:10312

nuclear <- 1:1613

plastid <- 1614:10312

**Configurações das análises de RAxML no CIPRES**

**9 marcadores e os 1030 taxa**

Heteropyxis.natalensis\_Wilson.1475 – outgroup

Entrei com um arquivo indicando início e fim das duas partições (nuc e plastid)

Interface gráfica do usuário, Texto, Aplicativo

Descrição gerada automaticamente

Interface gráfica do usuário, Texto, Aplicativo

Descrição gerada automaticamente

**5 marcadores e os taxa com 5 regiões completas para Myrciinae e Eugeniinae**

Eucalyptus.perriniana\_Lucas.283 - outgroup