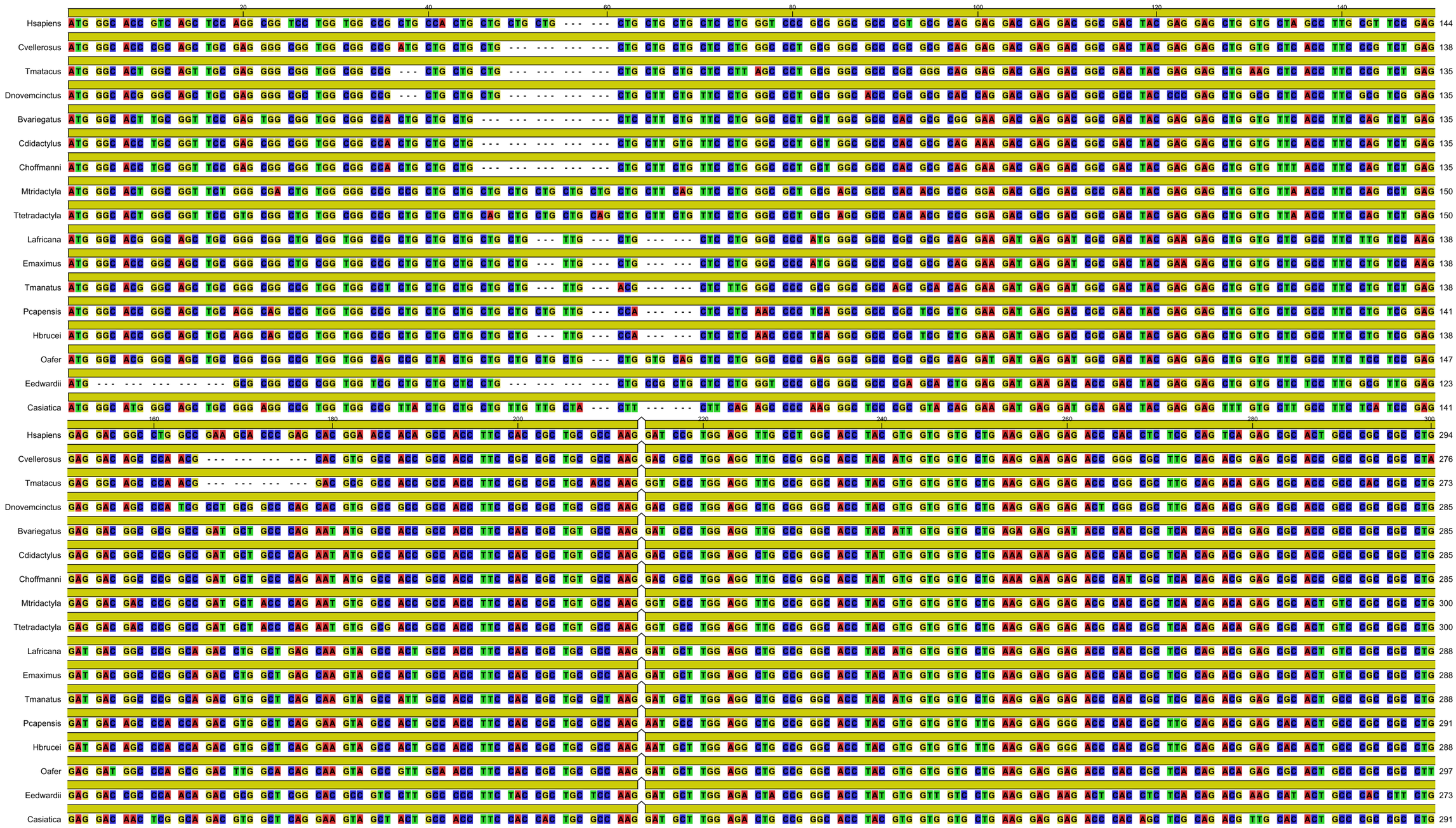
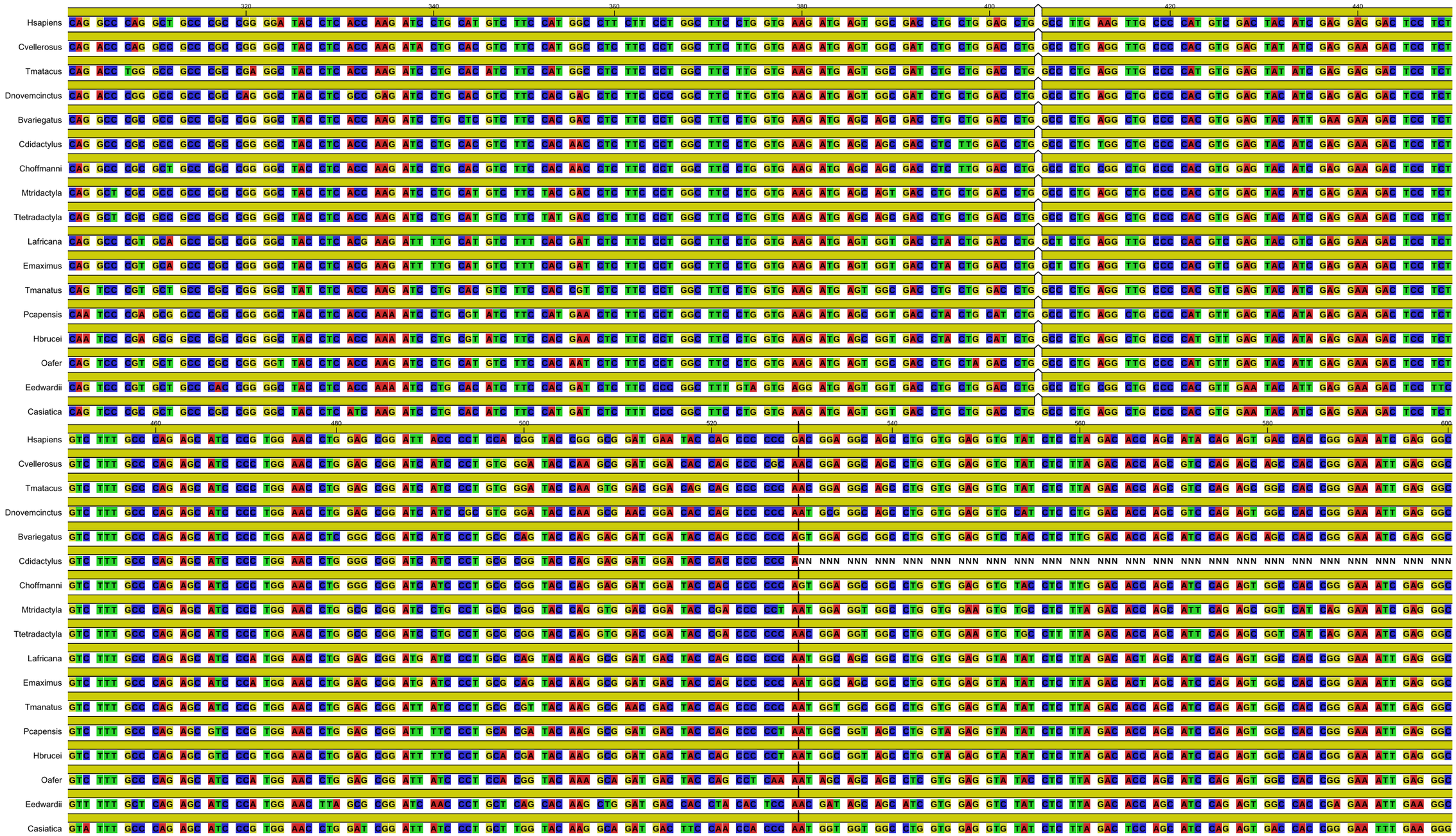
Supplemental Figure 1.

Alignments of DNA coding sequences (A) and protein sequences (B) of Afrotheria and Xenarthra species *vs H. sapiens*. "Corrected" sequences (i.e. disregarding the 1 bp deletion in exon 12 and the 10 bp extension of exon11) were used for *D. novemcinctus*

A

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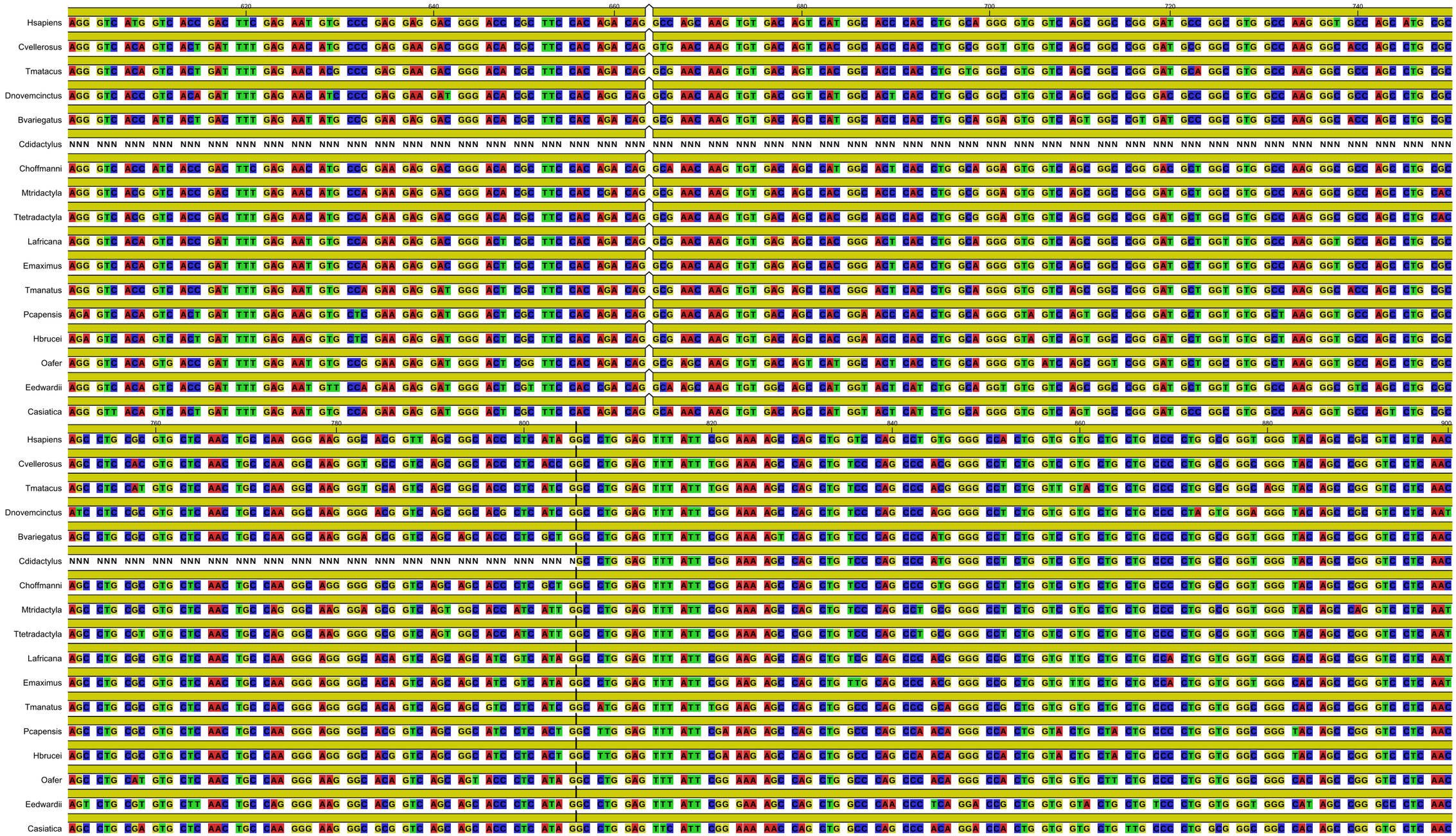
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Bvariegatus AGG GTC ACC ATC ACT GAC TTT GAG AAT ATG CCG GAA GAG GAC GGG ACA CGC TTC CAC AGA CAG GCG AAC AAG TGT GAC AGC CAT GGC ACC CAC CTG GCA GGA GTG GTC AGT GGC CGT GAT GCC GGC GTG GCC AAG GGC ACC AGC CTG CGC 735
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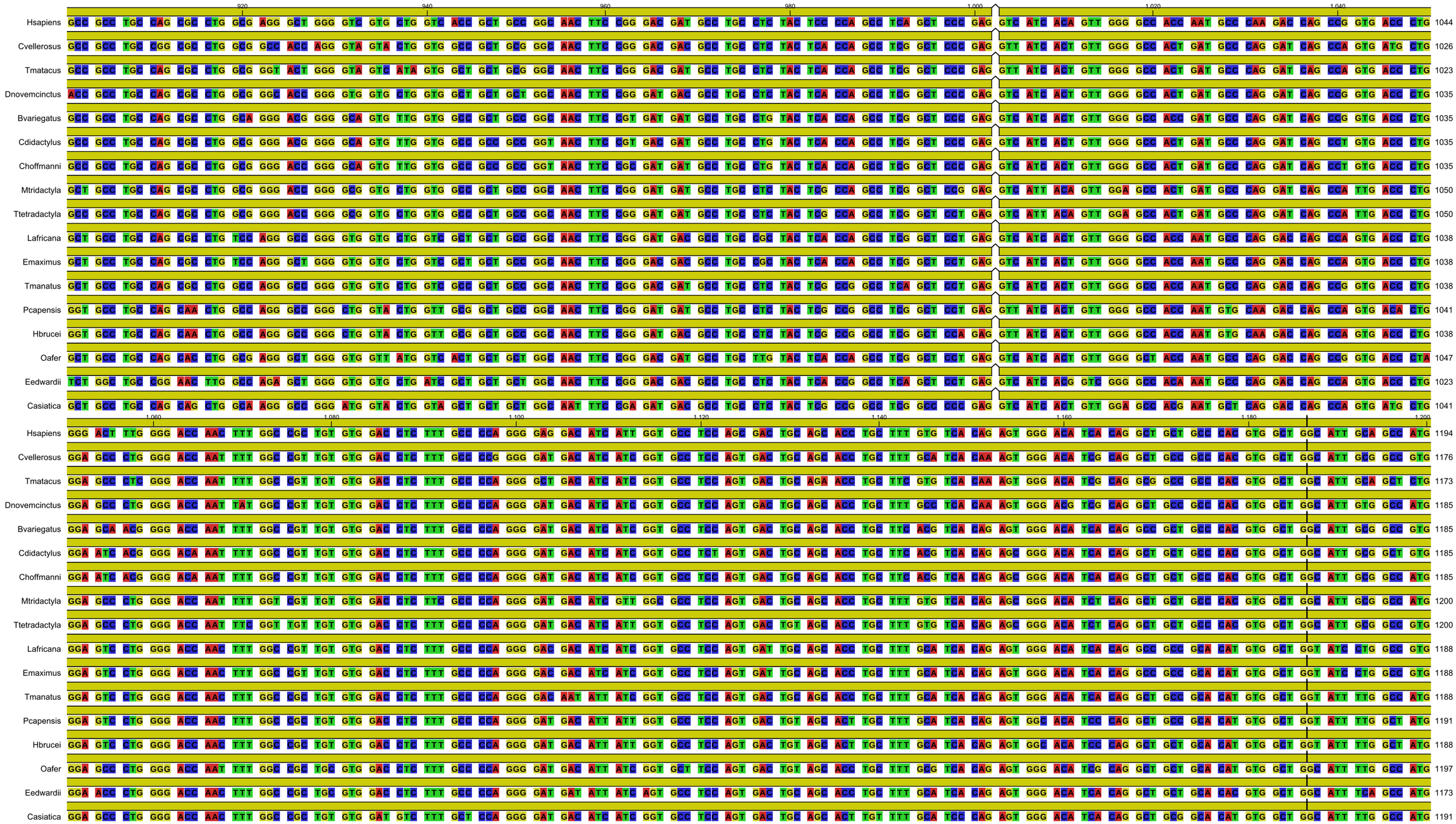
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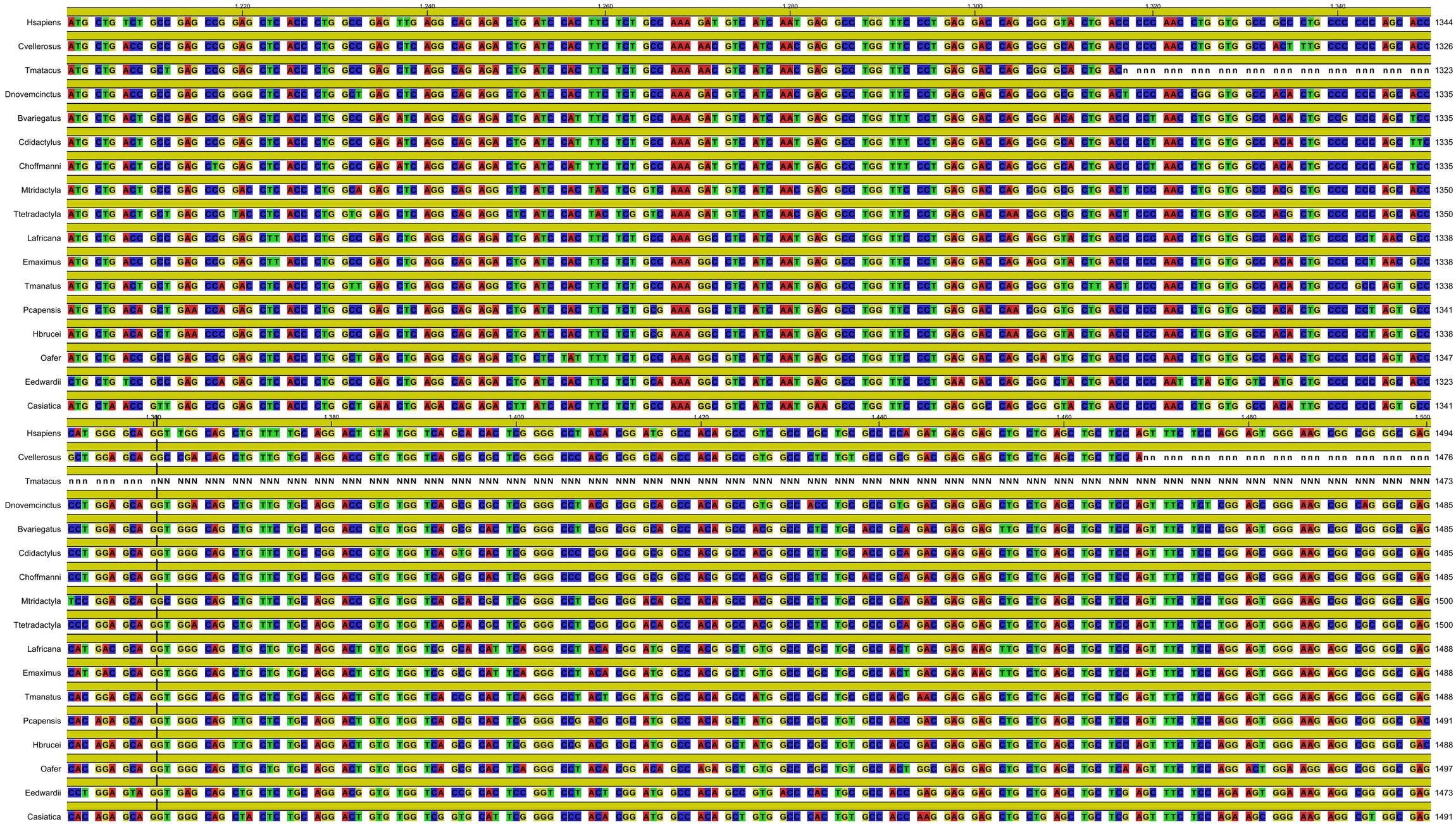
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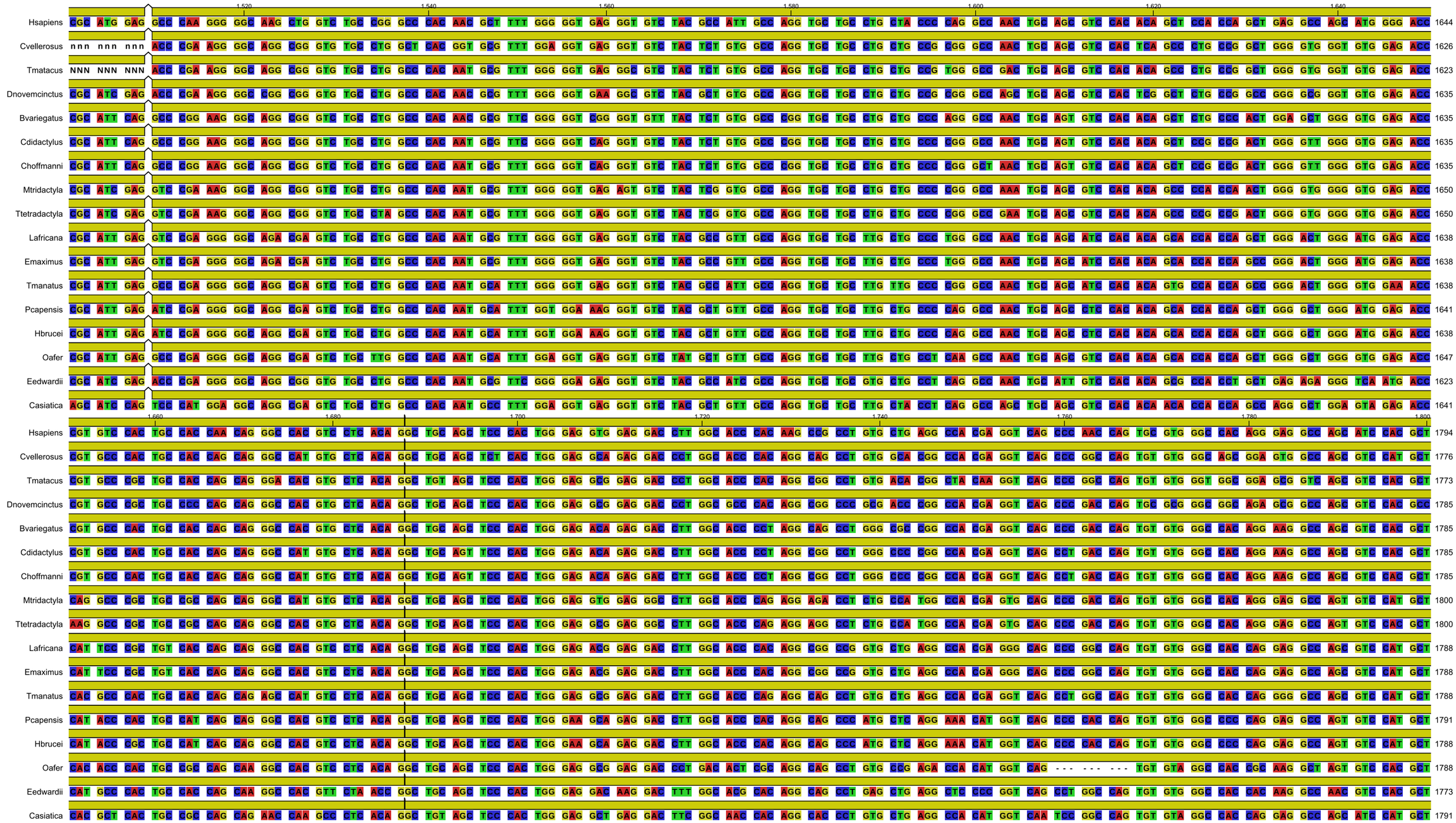
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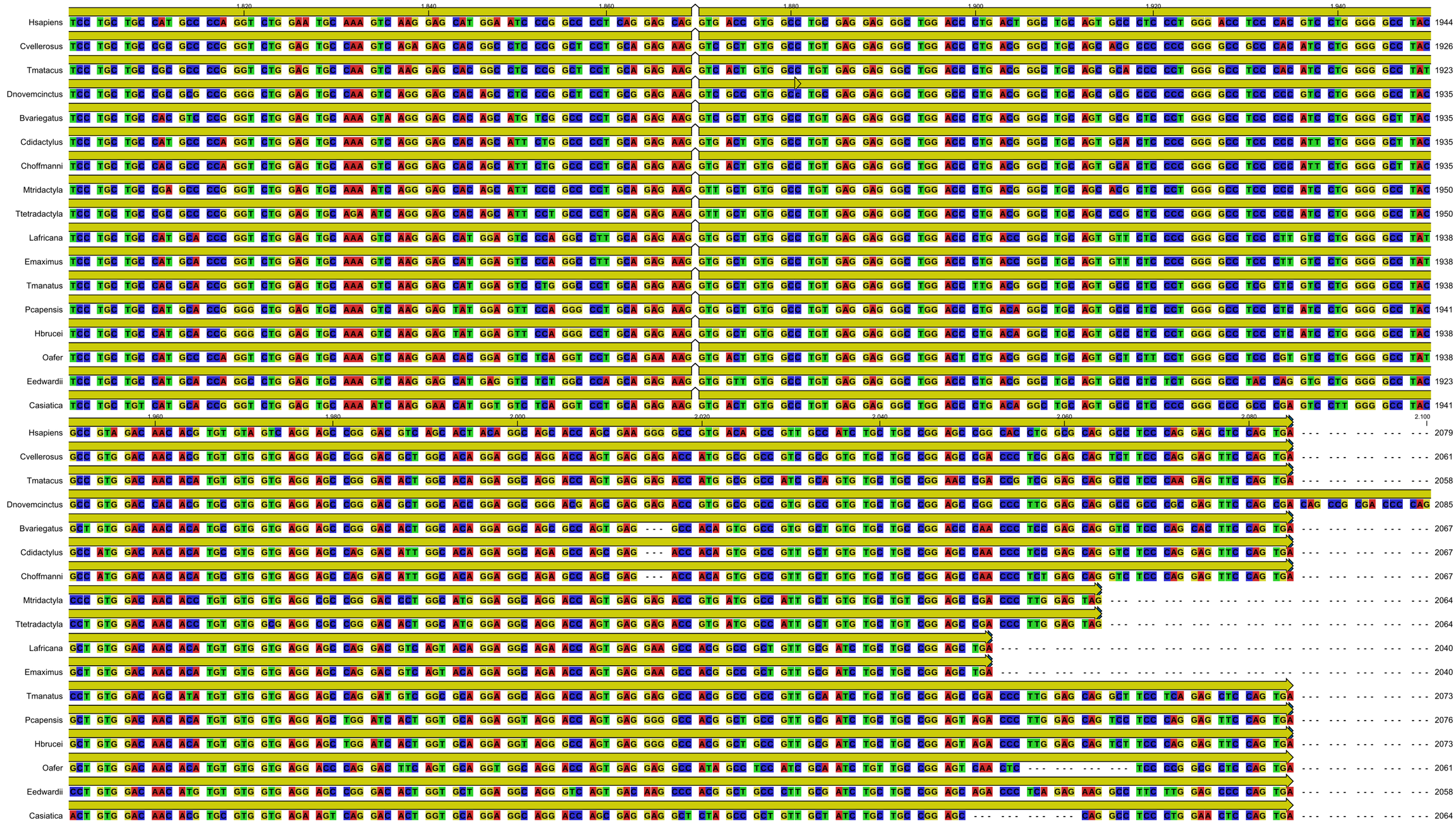
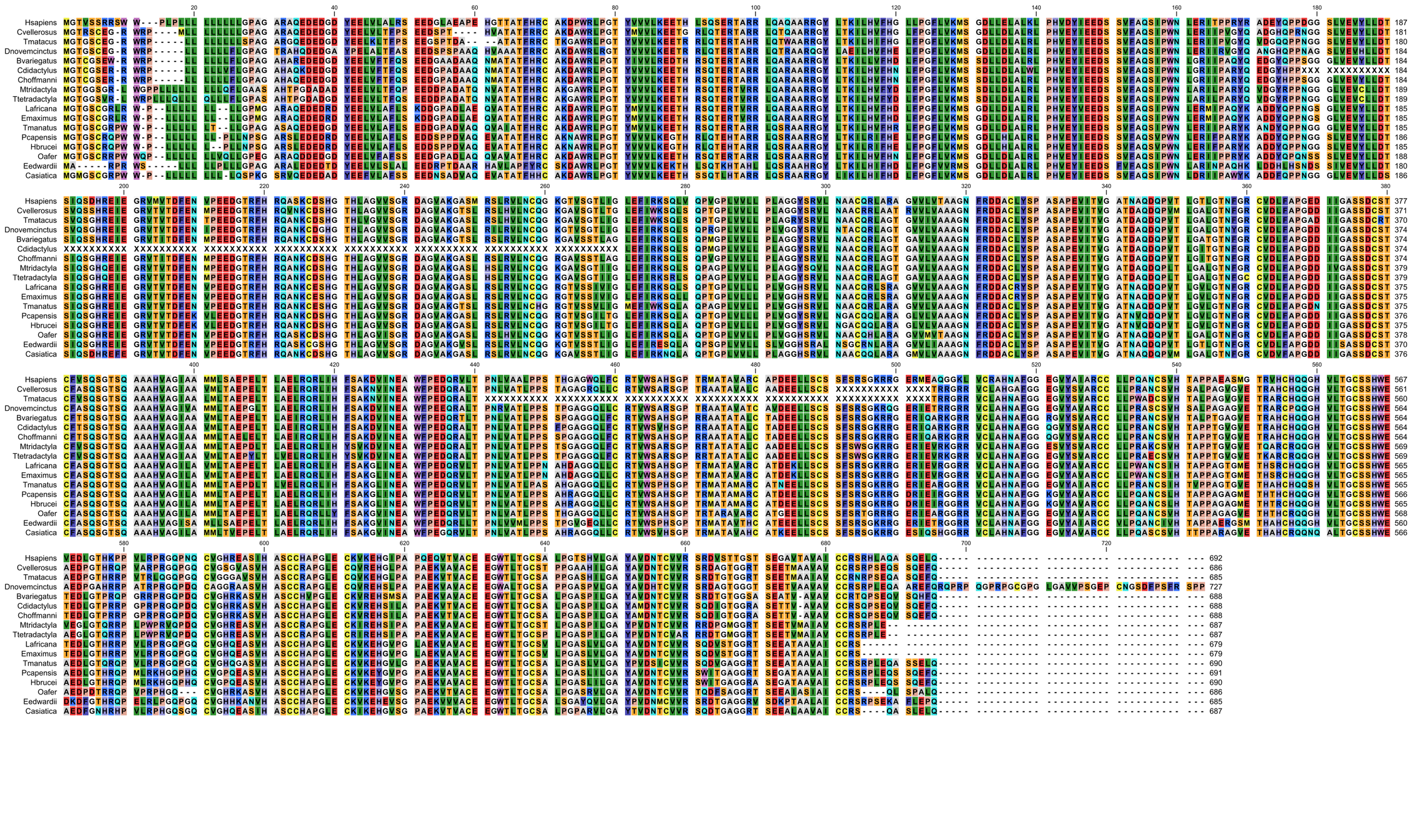
Eedwardii CAT GCC CAC TGC CAC CAG CAA GGC CAC GTT CTA ACC GGC TGC AGC TCC CAC TGG GAG GAC AAG GAC TTT GGC ACG CAC AGG CAG CCT GAG CTG AGG CTC CCC GGT CAG CCT GGC CAG TGT GTG GGC CAC CAC AAG GCC AAC GTC CAC GCT 1773
Casiatica CAC GCT CAC TGC CGC CAG CAG AAC CAA GCC CTC ACA GGC TGT AGC TCC CAC TGG GAG GCT GAG GAC TTC GGC AAC CAC AGG CAC CCT GTG CTG AGG CCA CAT GGT CAA TCC GGC CAG TGT GTA GGC CAC CAG GAG GCC AGC ATC CAT GCT 1791


1820
1840
1860
1880
1900
1920
1940
Hsapiens 1944
Cvellerosus 1926
Tmatacus 1923
Dnovemcinctus 1935
Bvariegatus 1935
Cdidactylus 1935
Choffmanni 1935
Mtridactyla 1950
Ttetradactyla 1950
Lafricana 1938
Emaximus 1938
Tmanatus 1938
Pcapensis 1941
Hbrucei 1938
Oafer 1938
Eedwardii 1923
Casiatica 1941
1960
1980
2000
2020
2040
2060
2080
2100
Hsapiens 2079
Cvellerosus 2061
Tmatacus 2058
Dnovemcinctus 2085
Bvariegatus 2067
Cdidactylus 2067
Choffmanni 2067
Mtridactyla 2064
Ttetradactyla 2064
Lafricana 2040
Emaximus 2040
Tmanatus 2073
Pcapensis 2076
Hbrucei 2073
Oafer 2061
Eedwardii 2058
Casiatica 2064

```
                                                  2.120                                                  2.140                                                  2.160                                                  2.180
Hsapiens      --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2079
Cvellerosus   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2061
Tmatacus      --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2058
Dnovemcinctus GGA CCG AGG CCG GGG TGC GGG CCG GGG CTG GGT GCC GTG GTC CCG TCG GGG GAG CCC TGC AAC GGT TCC GAT TTC CCC TCC TTC AGG TCC CCT CCC TGA 2184
Bvariegatus   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2067
Cdidactylus   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2067
Choffmanni    --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2067
Mtridactyla   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2064
Ttetradactyla --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2064
Lafricana     --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2040
Emaximus      --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2040
Tmanatus      --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2073
Pcapensis     --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2076
Hbrucei       --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2073
Oafer         --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2061
Eedwardii     --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2058
Casiatica     --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- 2064
```

B


Hsapiens
Cvellerosus
Tmatacus
Dnovemcinctus
Bvariegatus
Cdidactylus
Choffmanni
Mtridactyla
Ttetradactyla
Lafricana
Emaximus
Tmanatus
Pcapensis
Hbrucei
Oafer
Eedwardii
Casiatica