```
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Platform: aarch64-apple-darwin20
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  Natural language support but running in an English locale
R is a collaborative project with many contributors. Type 'contributors()' for more information and 'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
[R.app GUI 1.80 (8376) aarch64-apple-darwin20]
[History restored from /Users/alperkaragol/.Rapp.history]
> setwd("/Users/alperkaragol/Desktop/Genomics/Glutamate_isoformsData/TajimaD/EAA5")
> # Function to read alignment from a text file
> read_alignment <- function(file) {</pre>
      # Read the file line by line
      lines <- readLines(file)</pre>
      # Split each line into individual characters to form the alignment matrix
      alignment <- do.call(rbind, strsplit(lines, ""))</pre>
      return(alignment)
> # Function to compute site frequency spectrum (SFS)
> compute_SFS <- function(alignment) {</pre>
      # Number of sequences
      num sequences <- nrow(alianment)</pre>
      # Initialize an empty vector to store counts for each frequency
      sfs <- numeric(num_sequences - 1)</pre>
      # Loop through each column in the alignment
      for (i in 1:ncol(alignment)) {
           # Count the number of unique characters in the column
           counts <- table(alignment[, i])</pre>
           # Remove gaps "-" from the counts
           counts <- counts[!names(counts) %in% "-"]</pre>
           # Increment the count for each frequency in the SFS
           for (count in counts) {
               if (count > 1 && count <= num_sequences) {</pre>
                   sfs[count - 1] \leftarrow sfs[count - 1] + 1
          }
      }
      return(sfs)
> # Path to the alignment file
> file <- "alignment.txt"</pre>
> # Read the alignment from the file
> alignment <- read_alignment(file)</pre>
> print(alignment)
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R version 4.4.0 (2024-04-24) -- "Puppy Cup"

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                                                                        [,190]
"T"
                                                                                                         [,193]
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"T"
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                                                   "G"
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[1,]
                  "A"
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                                                              "G"
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                                                                                                                                          "G"
"-"
       "-"
[2,]
       "G"
                  "A"
"A"
                                                   "G"
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"G"
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"C"
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                             "A"
                                                              "G"
                                                                                                          "T"
                                                                                                                     "G"
[3,]
                                        "T"
[4,]
[5,]
                             "A"
                                                              "G"
                                                                         "T"
                                                                                                          "T"
                                                                                                                     "G"
                                                                                                                               "T"
                                                                                                                                                                "C"
       "G"
                                                   "G"
                                                                                                          "T"
                  "A"
                                        "T"
                                                              "G"
                                                                         "T"
                                                                                    "G"
                                                                                               "C"
                                                                                                                     "G"
                                                                                                                               "T"
                                                                                                                                           "G"
                                                                                                                                                                "C"
       "G"
                             "A"
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[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
,_	[,199]	[,200]	[,201]	[,202]	[,203]	[,204]	[,205]	[,206]	[,207]	[,208]	[,209]	[,210]	[,211]	[,212]	[,21
[1,]	"C"	"C"	"T"	"T"	"G"	"C"	"C"	"A"	"G"	"C"	"A"	"G"	"G"	"C"	"C"
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,]	"C"	"C"	"T"	"T"	"G"	"C"	"C"	"A"	"G"	"C"	"A"	"G"	"G"	"C"	"C"
[4,]		"C"	"T"	"T"	"G"	"C"	"C"	"A"	"G"	"C"	"A"	"G"	"G"	"C"	"C"
[5,]	"C"	"C"	"T"	"T"	"G"	"C"	"C"	"A"	"G"	"C"	"A"	"G"	"G"	"C"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[O,]															[,22
F4 7	[,214]	[,215]	[,216]		[,218]		[,220]	[,221]	[,222]	[,223]	[,224]	[,225]			
[1,]		"G"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"G"
[2,]		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"A"	"T"	"G"	"G"	"T"	"G"
[3,]	"A"	"G"	"G"	"C"	"T"	"C"	"G"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"G"
[4,]	"A"	"G"	"G"	"C"	"T"	"C"	"G"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"G"
[5,]		"G"	"G"	"C"	"T"	"C"	"G"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"A"	"T"	"G"	"G"	"T"	"G"
L°,1	[,229]	[,230]	[,231]	[,232]	[,233]	[,234]	[,235]	[,236]	[,237]	[,238]	[,239]	[,240]		[,242]	[,24
Г1 Т		"C"	"G"	"C"	"A"	"T"	"G"	"C"	"C"	"A"	"T"	"C"	"T"	"T"	"G"
[1,]						•					-		-	-	
[2,]		"C"	"G"	"C"	"A"	"T"	"G"	"C"	"C"	"A"	"T"	"C"	"T"	"T"	"G"
[3,]		"C"	"A"	"C"	"A"	"T"	"G"	"C"	"C"	"A"	"T"	"C"	"T"	"T"	"G"
[4,]	"C"	"C"	"G"	"C"	"A"	"T"	"G"	"C"	"C"	"A"	"T"	"C"	"T"	"T"	"G"
[5,]	"C"	"C"	"G"	"C"	"A"	"T"	"G"	"C"	"C"	"A"	"T"	"C"	"T"	"T"	"G"
[6,]	"C"	"C"	"G"	"C"	"A"	"T"	"G"	"C"	"C"	"A"	"T"	"C"	"T"	"T"	"G"
- /-	[,244]	[,245]	[,246]	[,247]	[,248]	[,249]	[,250]	[,251]	[,252]	[,253]	[,254]	[,255]	[,256]	[,257]	[,2
[1,]	"G"	"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"A"	"C"
	"G"	"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"A"	"C"
[2,]		-							-						
[3,]	"G"	"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"A"	"C"
[4,]		"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"A"	"C"
[5,]	"G"	"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"A"	"C"
[6,]	"G"	"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"A"	"G"	"A"	"C"
	[,259]	[,260]	[,261]	[,262]	[,263]	[,264]	[,265]	[,266]	[,267]	[,268]	[,269]	[,270]	[,271]	[,272]	[,2
[1,]	"G"	"T"	"G"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"G"	"A"	"A"	"T"
[2,]	"G"	"T"	"G"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"G"	"A"	"A"	"T"
[3,]	"G"	"T"	"G"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"G"	"A"	"A"	"T"
		"T"	"G"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"G"	"A"	"A"	"T"
[4,]		•		•	-	-				-	-				•
[5,]	"G"	"T"	"G"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"G"	"A"	"A"	"T"
[6,]		"T"	"G"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"G"	"A"	"A"	"T"
	[,274]	[,275]	[,276]	[,277]	[,278]	[,279]	[,280]	[,281]	[,282]	[,283]	[,284]	[,285]	[,286]	[,287]	[,2
[1,]	"G"	"G"	"A"	"C"	"T"	"C"	"C"	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"
[2,]	"G"	"G"	"A"	"C"	"T"	"A"	"C"	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"
[3,]	"G"	"G"	"A"	"C"	"T"	"A"	"C"	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"
[4,]		"G"	"A"	"C"	"T"	"A"	"C"	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"
	"G"	"G"	"A"	"C"	"T"	"A"	"C"	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"
[5,]					•		_	•	-		•		-		
[6,]		"G"	"A"	"C"	"T"	"A"	"C"	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"
	[,289]	[,290]	[,291]	[,292]	[,293]	[,294]	[,295]	[,296]	[,297]	[,298]	[,299]	[,300]	[,301]	[,302]	[,3
[1,]	"T"	"C"	"T"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"C"	"T"	"G"	"T"	"C"
[2,]	"T"	"C"	"T"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"C"	"T"	"G"	"T"	"C"
[3,]	"T"	"C"	"T"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"C"	"T"	"G"	"T"	"C"
[4,]	"T"	"C"	"T"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"C"	"T"	"G"	"T"	"C"
[5,]	"T"	"C"	"T"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"C"	"T"	"G"	"T"	"C"
[6,]		"C"	"T"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"C"	"T"	"G"	"T"	"C"
Lo,1		-	•	-	•	-	-	•	-	•	-	•	-	•	-
Г1 ¬	[,304]												[,316]		
[1,]	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"	"T"	"G"	"C"	"C"	"T"	"C"
[2,]	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"	"T"	"G"	"C"	"C"	"T"	"C"
[3,]	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"	"T"	"G"	"C"	"C"	"T"	"C"
[4,]	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"	"T"	"G"	"C"	"C"	"T"	"C"
[5,]	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"	"T"	"G"	"C"	"C"	"T"	"C"
[6,]	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"	"T"	"G"	"C"	"C"	"T"	"C"
	[,319]	[,320]	[,321]	[,322]	[,323]	[,324]	[,325]	[,326]	[,327]	[,328]	[,329]	[,330]	[,331]	[,332]	[,3
[1,]		"T"	"C"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"G"
[2,]		"T"	"C"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"G"
[3,]		"T"	"T"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"G"
		"T"					"T"	-		"T"	"T"		"T"	"T"	
[4,]		•	"C"	"G"	"G"	"C"	•	"T"	"C"	•	•	"C"	•		"G"
[5,]	"C"	"T"	"C"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"G"
[6,]	"C"	"T"	"T"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"G"
	[,334]	[,335]	[,336]	[,337]	[,338]	[,339]	[,340]	[,341]	[,342]	[,343]	[,344]	[,345]	[,346]	[,347]	[,3
[1,]	"A"	"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"G"	"C"	"C"	"T"	"C"
[2,]		"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"A"	"C"	"C"	"T"	"G"
[3,]		"G"	"G"	"A"	"C"	"T"	"C"	"G"	"G"	"C"	"G"	"C"	"C"	"T"	"C"
		"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"A"	"C"	"C"	"T"	"C"
[4,]										-				-	
[5,]		"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"A"	"C"	"C"	"T"	"C"
16.7	"A"	"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"G"	"C"	"C"	"T"	"C"
,_	[,349]	[,350]	[,351]	[,352]	[,353]	[,354]	[,355]	[,356]	[,357]	[,358]	[,359]	[,360]	[,361]	[,362]	[,3
L-,J		"C"	"A"	"C"	"C"	"A"	"Ć"	"Á"	"Ġ"	"Ġ"	"A"	"A"	"A"	"T"	"T"
			"A"	"C"	"C"	"A"	"C"	"A"	"G"	"G"	"A"	"A"	"A"	"T"	"T"
[1,]		"C"	A						-	-					
[1,] [2,]	"T"				"C"	"A"	"C"	"A"	"G"	"G"	"A"	"A"	"A"	"T"	"T"
[1,]	"T" "T"	"C" "C"	"A" "A"	"C" "C"		"A" "A"	"C" "C"	"A" "A"	"G" "G"	"G" "G"	"A" "A"	"A" "A"	"A" "A"	"T" "T"	"T"

[5,]	"T" "T"	"C" "C"	"A" "A"	"C" "C"	"C" "C"	"A" "A"	"C" "C"	"A" "A"	"G" "G"	"G" "G"	"A" "A"	"A" "A"	"A" "A"	"T" "T"	"T" "T"
[6,]	[,364]	[,365]	[,366]	[,367]	[,368]	[,369]	[,370]	[,371]	[,372]	[,373]		[,375]	[,376]	[,377]	[,378]
[1,]	"A"	"G"	"T"	"T"	"A"	"C"	"T"	"T"	"C"	"C"	"A"	"G"	"T"	"T"	"C"
[2,] [3,]	"A" "A"	"G" "G"	"T" "T"	"T" "T"	"A" "A"	"C" "C"	"T" "T"	"T" "T"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"T" "T"	"T" "T"	"C" "C"
[4,]	"A"	"G"	"T"	"T"	"A"	"C"	"T"	"T"	"C"	"C"	"A"	"G"	"T"	"T"	"C"
[5,]	"A" "A"	"G" "G"	"T" "T"	"T" "T"	"A" "A"	"C" "C"	"T" "T"	"T" "T"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"T" "T"	"T" "T"	"C" "C"
[6,]	[,379]	[,380]	[,381]	[,382]	[,383]	[,384]	[,385]	[,386]	[,387]	[,388]	[,389]	[,390]	[,391]	[,392]	[,393]
[1,]	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"G"	"C"	"T"	"C"	"C"	"T"	"G"
[2,] [3,]	"C" "C"	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"A" "A"	"G" "G"	"A" "A"	"G" "G"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"G" "G"
[4,]	"C"	"C"	"Ť"	"G"	"G"	"A"	"G"	"A"	"G"	"C"	"Ť"	"C"	"C"	"Ť"	"G"
[5,]	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"G"	"C"	"T"	"C"	"C"	"T"	"G"
[6,]	"C" [,394]	"C" [,395]	"T" [,396]	"G" [,397]	"G" [,398]	"A" [,399]	"G" [,400]	"A" [,401]	"G" [,402]	"C" [,403]	"T" [,404]	"C" [,405]	"C" [,406]	"T" [,407]	"G" [,408]
[1,]	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"T"	"G"	"C"	"T"	"G"	"A"	"A"	"G"
[2,]	"A" "A"	"T" "T"	"G" "G"	"A" "A"	"G" "G"	"G" "A"	"A" "A"	"T" "T"	"G" "G"	"C" "C"	"T" "T"	"G" "G"	"A" "A"	"A" "A"	"G" "G"
[3,] [4,]	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"†"	"G"	"C"	"T"	"G"	"A"	"A"	"G"
[5,]	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"T"	"G"	"C"	"T"	"G"	"A"	"A"	"G"
[6,]	"A" [,409]	"T" [,410]	"G" [,411]	"A" [,412]	"G" [,413]	"G" [,414]	"A" [,415]	"T" [,416]	"G" [,417]	"C" [,418]	"T" [,419]	"G" [,420]	"A" [,421]	"A" [,422]	"G" [,423]
[1,]	"A"	"T"	"G"	"A"	"T"	"G"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"A"
[2,]	"A"	"T"	"G"	"A"	"T"	"G"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"A"
[3,] [4,]	"A" "A"	"T" "T"	"G" "G"	"A" "A"	"T" "T"	"G" "G"	"A" "A"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"G" "G"	"C" "C"	"C" "C"	"A" "A"
[5,]	"A"	"T"	"G"	"A"	"T"	"G"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"A"
[6,]	"A" [,424]	"T"	"G" [4267	"A" 「 4277	"T"	"G"	"A" 「 4207	"T"	"(" 「 4227	"(" г изэл	"T" [,434]	"G" г изел	"C"	"C" г 4277	"A" г изол
[1,]	[,424] "C"	[,425] "T"	[,426] "G"	[,427] "G"	[,428] "T"	[,429] "G"	[,430] "G"	[,431] "T"	[,432] "C"	[,433] "T"	[,434] "C"	[,435] "C"	[,436] "A"	[,437] "G"	[,438] "C"
[2,]	"C"	"T"	"G"	"G"	"T"	"G"	"G"	"T"	"C"	"T"	"C"	"C"	"A"	"G"	"C"
[3,] [4,]	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"T" "T"	"G" "G"	"G" "G"	"T" "T"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"C" "C"
[5,]	"C"	"Ť"	"G"	"G"	"Ť"	"G"	"G"	"Ť"	"C"	"Ť"	"C"	"C"	"A"	"G"	"C"
[6,]		"T"	"G"	"G"	"T"	"G"	"G"	"T"	"C"	"T"	"C"	"C"	"A"	"G"	"C"
[1,]	[,439] "T"	[,440] "T"	[,441] "G"	[,442] "A"	[,443] "T"	[,444] "G"	[,445] "T"	[,446] "C"	[,447] "C"	[,448] "G"	[,449] "G"	[,450] "A"	[,451] "C"	[,452] "T"	[,453] "T"
[2,]	"T"	"T"	"G"	"A"	"T"	"G"	"T"	"C"	"C"	"G"	"G"	"A"	"C"	"T"	"T"
[3,]	"T"	"T"	"G"	"A"	"T"	"G"	"T"	"C"	"T"	"G"	"G"	"A"	"C"	"T"	"T"
[4,] [5,]	"T" "T"	"T" "T"	"G" "G"	"A" "A"	"T" "T"	"G" "G"	"T" "T"	"C" "C"	"C" "C"	"G" "G"	"G" "G"	"A" "A"	"C" "C"	"T" "T"	"T" "T"
[6,]	"T"	"T"	"G"	"A"	"T"	"G"	"T"	"C"	"C"	"G"	"G"	"A"	"C"	"T"	"T"
[1,]	[,454] "G"	[,455] "C"	[,456] "C"	[,457] "T"	[,458] "C"	[,459] "C"	[,460] "C"	[,461] "T"	[,462] "G"	[,463] "G"	[,464] "A"	[,465] "T"	[,466] "G"	[,467] "C"	[,468] "C"
[2,]	"G"	"C"	"C"	"T"	"C"	"C"	"C"	"†"	"G"	"G"	"A"	"†"	"G"	"C"	"C"
[3,]	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"T"	"G"	"G"	"A"	"T"	"G"	"C"	"C"
[4,] [5,]	"G" "G"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"A" "A"	"T" "T"	"G" "G"	"C" "C"	"C" "C"
[6,]	"G"	"C"	"C"	"T"	"C"	"C"	"C"	"Ť"	"G"	"G"	"A"	"Ť"	"G"	"C"	"C"
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[3,]	"A"	"A"	"G"	"A"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"C"	"C"	"G"	"C"
[4,] [5,]	"A" "A"	"A" "A"	"G" "G"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"C" "C"	"C" "C"	"G" "G"	"C" "C"
[6,]		"A"	"G"	"A"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"C"	"C"	"G"	"C"
- /-	[,484]	[,485]	[,486]	[,487]	[,488]	[,489]		[,491]	[,492]	[,493]	[,494]	[,495]	[,496]	[,497]	[,498]
[1,] [2,]	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"G" "G"	"C" "C"	"G" "G"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"A" "A"	"C" "C"	"C" "C"
[3,]		"T"	"G"	"G"	"G"	"C"	"G"	"T"	"C"	"C"	"T"	"C"	"A"	"C"	"C"
[4,]	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"T"	"C"	"C"	"T"	"C"	"A"	"C"	"C"
[5,] [6,]	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"G" "G"	"C" "C"	"G" "G"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"A" "A"	"C" "C"	"C" "C"
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[1,]	"G" "G"	"T" "T"	"G" "G"	"G" "G"	"C" "C"	"G" "G"	"T" "T"	"A" "A"	"C" "C"	"T" "T"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"G" "G"
[2,] [3,]	"G"	"T"	"G"	"G"	"C"	"G"	"T"	"A"	"C"	"T"	"A"	"C"	"C"	"T"	"G"
[4,]	"G"	"T"	"G"	"G"	"C"	"G"	"T"	"A"	"C"	"T"	"A"	"C"	"C"	"T"	"G"
[5,] [6,]	"G" "G"	"T" "T"	"G" "G"	"G" "G"	"C" "C"	"G" "G"	"T" "T"	"A" "A"	"C" "C"	"T" "T"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"G" "G"
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[1,]	"T"	"G"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"T"	"G"
[2,] [3,]	"T" "T"	"G" "G"	"G" "G"	"A" "A"	"C" "C"	"G" "C"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"T" "T"	"C" "C"	"A" "A"	"T" "T"	"G" "G"
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[4,]	"T"	"G"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"T"	"G"
[5,]		"G"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"Ť"	"G"
[6,]		"G"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"T"	"G"
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[1,] [2,]	"G" "G"	"C" "C"	"T" "T"	"G" "G"	"T" "T"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"G" "G"	"T" "T"	"G" "G"	"G" "G"	"G" "G"	"C" "C"
[3,]	"G"	"C"	"T"	"G"	"T"	"C"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"
[4,]	"G"	"C"	"T"	"G"	"T"	"C"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"
[5,]	"G"	"C"	"T"	"G"	"T"	"C"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"
[6,]	"G"	"C"	"T"	"G"	"T"	"C"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"
	[,544]	[,545]	[,546]	[,547]	[,548]	[,549]	[,550]		[,552]	[,553]	[,554]	[,555]	[,556]	[,557]	[,558]
[1,]	"A" "A"	"T" "T"	"C" "C"	"T" "T"	"T" "T"	"C" "C"	"A" "A"	"T" "T"	"G" "G"	"G" "G"	"T" "T"	"C" "C"	"T" "T"	"C" "C"	"C" "C"
[2,] [3,]	"A"	"T"	"C"	"T"	"T"	"T"	"A"	"T"	"G"	"G"	"T"	"C"	"T"	"G"	"C"
[4,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"T"	"C"	"C"
[5,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"T"	"C"	"C"
[6,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"T"	"C"	"C"
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[1,]	"A" "A"	"T" "T"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"C" "C"	"A" "A"	"C" "C"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"G" "G"	"C" "C"
[2,] [3,]	"A"	"T"	"C"	"A"	"T"	"C"	"C"	"A"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[4,]	"A"	"T"	"C"	"A"	"T"	"C"	"C"	"A"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[5,]	"A"	"T"	"C"	"A"	"T"	"C"	"C"	"A"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[6,]	"A"	"T"	"C"	"A"	"T"	"C"	"C"	"A"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
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[1,] [2,]	"A" "A"	"G" "G"	"C" "C"	"G" "G"	"C" "C"	"G" "G"	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"A" "A"	"A" "A"	"G" "G"
[3,]	"A"	"G"	"T"	"G"	"C"	"G"	"G"	"C"	"C"	"C"	"A"	"G"	"A"	"A"	"G"
[4,]	"A"	"G"	"C"	"G"	"C"	"G"	"G"	"C"	"C"	"C"	"A"	"G"	"A"	"A"	"G"
[5,]	"A"	"G"	"C"	"G"	"C"	"G"	"G"	"C"	"C"	"C"	"A"	"G"	"A"	"A"	"G"
[6,]	"A"	"G"	"C"	"G"	"C"	"G"	"G"	"C"	"C"	"C"	"A"	"G"	"A"	"A"	"G"
[1,]	[,589] "G"	[,590] "A"	[,591] "G"	[,592] "A"	[,593] "C"	[,594] "C"	[,595] "A"	[,596] "C"	[,597] "G"	[,598] "G"	[,599] "A"	[,600] "G"	[,601] "C"	[,602] "A"	[,603] "G"
[2,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"C"	"G"	"G"	"A"	"G"	"C"	"A"	"G"
[3,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"C"	"G"	"G"	"A"	"G"	"C"	"A"	"G"
[4,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"C"	"G"	"G"	"A"	"G"	"C"	"A"	"G"
[5,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"C"	"G"	"G"	"A"	"G"	"C"	"A"	"G"
[6,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"C"	"G"	"G"	"A"	"G"	"C"	"A"	"G"
[1,]	[,604] "A"	[,605] "G"	[,606] "T"	[,607] "G"	[,608] "G"	[,609] "G"	[,610]	[,611] "A"	[,612] "G"	[,613] "C"	[,614] "C"	[,615] "C"	[,616] "A"	[,617] "T"	[,618] "C"
[2,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
[3,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
[4,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
[5,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
[6,]		"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
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[2,]	"A"	"T"	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"	"T"	"G"	"A"	"T"
[3,]	"A"	"T"	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"G"	"A"	"T"
[4,]	"A"	"T"	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"G"	"A"	"T"
[5,]		"T"	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"G"	"A"	"T"
[6,]	"A" 「 6347	"T" [,635]	"G" [636]	"A" 「 637]	"G"	L 6301	"T"	"C"	"A" 「 6427	"G"	"C" [,644]	"C"	"G"	"A" 「 6477	L 648J
[1,]	"G"	"C"	"C"	"C"	"T"	"G"	"T"	"T"	"G"	"G"	"A"	"C"	"C"	"T"	"C"
[2,]	"G"	"C"	"C"	"C"	"T"	"G"	"T"	"T"	"G"	"G"	"A"	"C"	"C"	"T"	"C"
[3,]	"G"	"C"	"C"	"C"	"T"	"G"	"T"	"T"	"G"	"G"	"A"	"C"	"C"	"T"	"C"
[4,]	"G"	"C"	"C"	"C"	"T"	"G"	"T"	"T"	"G"	"G"	"A"	"C"	"C"	"T"	"C"
[5,] [6,]	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"T" "T"	"G" "G"	"T" "T"	"T" "T"	"G" "G"	"G" "G"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"C" "C"
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[1,]		"T"	"C"	"C"	"G"	"G"	"A"	"A"	"C"	"A"	"T"	"G"	"T"	"T"	"C"
[2,]	"A"	"T"	"C"	"C"	"G"	"G"	"A"	"A"	"C"	"A"	"T"	"G"	"T"	"T"	"C"
[3,]	"A"	"T"	"C"	"C"	"G"	"G"	"A"	"A"	"C"	"A"	"T"	"G"	"T"	"T"	"C"
[4,]	"A" "A"	"T" "T"	"C" "C"	"C" "C"	"G" "G"	"G" "G"	"A" "A"	"A" "A"	"C" "C"	"A" "A"	"T" "T"	"G" "G"	"T" "T"	"T" "T"	"C" "C"
[5,] [6,]		"T"	"C"	"C"	"G"	"G"	"A"	"A"	"C"	"A"	"T"	"G"	"T"	"T"	"C"
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[1,]		"C"	"A"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"A"	"G"	"T"	"A"
[2,]	"C"	"C"	"A"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"A"	"G"	"T"	"A"
[3,]	"C"	"C"	"A"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"A"	"G"	"T"	"A"
[4,]	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"C" "C"	"C" "C"	"A" "A"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"A" "A"	"G" "G"	"T" "T"	"A" "A"
[5,] [6,]		"C"	"A"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"A"	"G"	"†"	"A"
٠~,٦	[,679]	[,680]	[,681]	[,682]	[,683]	[,684]	[,685]	[,686]	[,687]	[,688]	[,689]	[,690]	[,691]	[,692]	[,693]
[1,]	"G"	"A"	"A"	"G"	"C"	"C"	"A"	"C"	"A"	"T"	"T"	"C"	"A"	"A"	"A"
[2,]		"A"	"A"	"G"	"C"	"C"	"A"	"C"	"A"	"T"	"T"	"C"	"A"	"A"	"A"

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[2,]	"A"	"G"	"T"	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"T"	"G"	"G"
[3,]	"G"	"G"	"T"	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"T"	"G"	"G"
[4,]	"G"	"G"	"T"	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"T"	"G"	"G"
[5,]	"G"	"G"	"T"	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"T"	"G"	"G"
[6,]		"G"	"T"	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"T"	"G"	"G"
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[2,]	"T"	"A"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"T"	"T"	"C"	"G"
[3,]	"T"	"A"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"T"	"T"	"C"	"G"
[4,]	"T"	"A"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"T"	"T"	"C"	"G"
[5,]	"T"	"A"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"T"	"T"	"C"	"G"
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[2,]	"G"	"C"	"A"	"T"	"T"	"G"	"T"	"G"	"T"	"T"	"C"	"C"	"T"
[3,]	"G"	"C"	"A"	"T"	"T"	"G"	"T"	"G"	"T"	"T"	"C"	"C"	"T"
[4,]	"G"	"C"	"A"	"T"	"T"	"G"	"T"	"G"	"T"	"T"	"C"	"C"	"T"
- /-	"G"	"C"	"A"	"T"	"T"	"G"	"T"	"G"	"T"	"T"	"C"	"C"	"T"
[5,]					-			-	-		-	-	
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[1,]	"C"	"A"	"T"	"T"	"G"	"C"	"G"	"G"	"G"	"T"	"A"	"A"	"G"
[2,]	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"G"	"G"	"T"	"A"	"A"	"G"
[3,]	"C"	"A"	"T"	"C"	"G"	"C"	"C"	"G"	"G"	"C"	"A"	"A"	"G"
[4,]	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"G"	"G"	"T"	"A"	"A"	"G"
	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"G"	"G"	"T"			"G"
[5,]		"A"									"A"	"A"	
[6,]			"T"	"C"	"G"	"C"	"C"	"G"	"G"	"C"	"A"	"A"	"G"
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[1,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"T"	"G"	"G"
[2,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"T"	"G"	"G"
[3,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"T"	"G"	"G"
[4,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"T"	"G"	"G"
	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"T"	"G"	"G"
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[6,]		"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"T"	"G"	"G"
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[2,]	"A"	"T"	"G"	"A"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"G"	"C"
[3,]	"A"	"C"	"G"	"A"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"G"	"C"
[4,]	"A"	"C"						-					
				V	"C"	"C"	"C"	"C"	" A "	"G"	"G"	"G"	"C"
= '=			"G"	"A"	"C"	"C"	"C"	"C"	"A"	"G"	"G" "C"	"G"	"C"
[5,]	"A"	"C"	"G"	"A"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"G"	"C"
= '=	"A" "A"	"C" "C"	"G" "G"	"A" "A"	"C" "C"	"C" "C"	"C" "C"	"C" "G"	"A" "A"	"G" "G"	"G" "G"	"G" "G"	"C" "C"
[5,]	"A" "A"	"C"	"G" "G"	"A" "A"	"C"	"C" "C"	"C"	"C"	"A" "A"	"G"	"G"	"G"	"C"
[5,]	"A" "A"	"C" "C"	"G" "G"	"A" "A"	"C" "C"	"C" "C"	"C" "C"	"C" "G"	"A" "A"	"G" "G"	"G" "G"	"G" "G"	"C" "C"
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[5,] [6,] [1,] [2,]	"A" "A" [,1086] "C"	"C" "C" [,1087] "G"	"G" "G" [,1088] "T"	"A" "A" [,1089] "C"	"C" "C" [,1090] "G"	"C" "C" [,1091] "G"	"C" "C" [,1092] "C"	"C" "G" [,1093] "A"	"A" "A" [,1094] "A"	"G" "G" [,1095] "G"	"G" "G" [,1096] "A"	"G" "G" [,1097] "A"	"C" "C" [,1098] "G"
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[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,]	"A" "A" [,1086] "C" "C" "C" "C" [,1099] "C" "C" "C" "C"	"C" "C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T"	"G" "G" [,1088] "T" "T" "T" "T" "T" "T" "T" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "C" "G" "G" "G" "G" "G"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"C" "C" [,1091] "G" "G" "G" "G" "G" "C" "C" "C" "C"	"C" [,1092] "C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "A" "T" "T"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C"	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" "G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "G" [,1097] "A" "A" "A" "A" "A" "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "G" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,]	"A" "A" [,1086] "C" "C" "C" "C" [,1099] "C" "C" "C" "C" "C" "C" "C" "C" "C"	"C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" [,1101] "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" [,1102] "G" "G" "G" "G"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"C" "G" "G" "G" "G" "G" "G" "C" "C" "C"	"C" [,1092] "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" [,1106] "T" "T" "T" "T"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" [,1109] "A" "A" "A" "A" "A" "A" "A" "A"	"G" "G" [,1097] "A" "A" "A" "A" [,1110] "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "G" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" "T" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "C" "G" "G" "G" "G" "G"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"C" "G" "G" "G" "G" "G" "G" "C" "C" "C"	"C" [,1092] "C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "T"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "G" [,1097] "A" "A" "A" "A" "C" "C" "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" "T" [,1101] "G" "G" "G" "G" "G" "G" "G" [,1114]	"A" "A" [,1089] "C" "C" "C" "C" "C" "G" "G" "G" "G" "G"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"C" [,1091] "G" "G" "G" "G" "G" "C" "C" "C" "C" "C"	"C" [,1092] "C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "In "T"	"A" "A" "A" "A" "A" "A" "A" "C" "C" "C"	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "G" [,1097] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" [,1124]
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[5,] [6,] [1,] [2,] [3,] [4,] [5,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" "T" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "C" [,1102] "G" "G" "G" "G" "G" "G" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"C" [,1091] "G" "G" "G" "G" "G" "C" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "C" "C" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "A" "T" "T" "T" "T"	"A" "A" [,1094] "A" "A" "A" "A" "A" [,1107] "C" "C" "C" "C" "C" "G" "G" "G"	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" "A" "A" "A" "A" "A" "A" "A" "A" "A"	"G" "G" [,1097] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" [,1099] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" "G" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "G"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"C" [,1091] "G" "G" "G" "G" "G" "C" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "C" "C" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "T"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" [,1097] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [6,] [1,] [2,] [2,] [2,] [2,] [2,] [2,] [4,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" "T" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "C" [,1102] "G" "G" "G" "G" "G" "G" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"C" [,1091] "G" "G" "G" "G" "G" "C" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "C" "C" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "A" "T" "T" "T" "T"	"A" "A" [,1094] "A" "A" "A" "A" "A" [,1107] "C" "C" "C" "C" "C" "G" "G" "G"	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" "A" "A" "A" "A" "A" "A" "A" "A" "A"	"G" "G" [,1097] "A" "A" "A" "A" "A" [,1110] "C" "C" "C" "C" "C" "G" "G" "G"	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [5,] [6,] [1,] [2,] [3,] [5,] [6,] [1,] [2,] [3,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" [,1101] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"A" "A" [,1089] "C" "C" "C" "C" [,1102] "G" "G" "G" "G" "G" "T" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "A" "A" "A" "A"	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "T" "T" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "A" [,1107] "C" "C" "C" "C" "G" "G" "G" "G" "G"	"G" [,1095] "G" "G" "G" "G" "T" "T" "T" "T" [,1121] "T" "T" "T" "T" "T" "T" "T" "T" "T" "T	"G" [,1096] "A" "A" "A" "A" "A" [,1109] "A" "A" "A" "A" "A" "A" "G" "G" "G" "G"	"G" "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G"	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [6,] [1,] [2,] [2,] [2,] [2,] [2,] [2,] [4,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" "A" "G" "G" "G" "G" "G" "G"	"G" [,1088] "T" "T" "T" "T" "G" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" "G" "G" "G" "G" "C" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "T"	"A" "A" "A" "A" "A" "A" "A" "C" "C" "C"	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G" "G	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [2,] [3,] [4,] [2,] [3,] [4,] [5,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "G" "G" "G" "G" "G" "G" "T" "T" "T" "T	"G" [,1088] "T" "T" "T" "T" "G" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "T"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" [,1097] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" "G" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "A" "A" "A" "A" "A	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "C" "C" "C" "C" "C" [,1132]	"A" "A" [,1094] "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G" "G	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" [,1097] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "G" [,1100] "T" "T" "T" "T" "T" "A" "G" "G" "G" "G" "G" "G" "G" "T" "T"	"G" [,1088] "T" "T" "T" "T" "T" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "C" [,1102] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "A" "A" "A" "A" "A	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "C" "C" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" [,1095] "G" "G" "G" "G" "G" [,1108] "T" "T" "T" "T" "T" "T" "T" "T" "T" "T	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "C	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" [,1099] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" [,1101] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"A" "A" [,1089] "C" "C" "C" "C" [,11102] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" "G" "G" "G" "G" "G" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "C" "C" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "A" [,1107] "C" "C" "C" "C" "G" "G" "G" "G" "G" "G"	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" "A" "A" "A" "A" "A" "A" "A" "A" "A"	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "G" "G" "G" "G" "G" "G	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "A" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"G" [,1088] "T" "T" "T" "T" "T" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "C" [,1102] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "A" "A" "A" "A" "A	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "C" "C" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" [,1095] "G" "G" "G" "G" "G" [,1108] "T" "T" "T" "T" "T" "T" "T" "T" "T" "T	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "C	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [2,] [3,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [5,] [6,] [1,] [2,] [6,] [1,] [2,] [2,] [2,] [3,] [4,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" [,1101] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"A" "A" [,1089] "C" "C" "C" "C" [,11102] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" "G" "G" "G" "G" "G" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "C" "C" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "A" [,1107] "C" "C" "C" "C" "G" "G" "G" "G" "G" "G"	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" "A" "A" "A" "A" "A" "A" "A" "A" "A"	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "G" "G" "G" "G" "G" "G	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [5,] [6,] [1,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" "G" "G	"G" [,1088] "T" "T" "T" "T" "G" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "T" "T" "T" "T" "T" "T	"C" "G" "G" "G" "G" "G" "G" "G" "G" "G"	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "A" "A" "A" "A" "A" "A	"C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "C" "C" "C" "C" "C" "C	"A" "A" [,1094] "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G" "G	"G" "G" "G" "G" "G" "G" "T" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "C	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [2,] [3,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [5,] [6,] [1,] [2,] [6,] [1,] [2,] [2,] [2,] [3,] [4,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" "G" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "A" "A" "A" "A" "A	"C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "C" "C" "C" "C" "C" "C	"A" "A" [,1094] "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G" "G	"G" [,1095] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "C	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" [,1099] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" "G" "G	"G" [,1088] "T" "T" "T" "T" "T" [,1101] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "A" "A" "A" "A" "A	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "C" "C" "C" "C" "C" "C	"A" "A" [,1094] "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G" "G	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" [,1097] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "G" "T" "T" "T" "T" "A" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"G" [,1088] "T" "T" "T" "T" "T" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "A" "A" "A" "A" "A	"C" "C" "C" "C" "C" "C" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "C" "C" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" [,1097] "A" "A" "A" "A" "A" [,1110] "C" "C" "C" "C" "G" "G" "G" "G" "G" "G"	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" "G" "G	"G" [,1101] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "C" "C"	"C" "C" "G" "G" "G" "C" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "T" "T" "T" "T" "C" "C	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "C" "C" "C" "C" "C" "C	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" "A" "A" "A" "A" "A" "A" "A" "A" "A"	"G" "A" "A" "A" "A" "A" "A" "C" "C" "C" "C	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [2,] [3,] [4,] [5,] [6,] [1,] [5,] [6,] [1,] [2,] [6,] [1,] [2,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" "G" "G	"G" [,1088] "T" "T" "T" "T" [,1101] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"A" "A" [,1089] "C" "C" "C" "C" [,1102] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" "C" "G" "G" "G" "G" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "C" "C" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G" "G	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" "G" "G	"G" [,1101] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "C" "C"	"C" "C" "G" "G" "G" "C" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "T" "T" "T" "T" "C" "C	"C" "G" [,1093] "A" "A" "A" "A" "A" "T" "T" "T" "T" "C" "C" "C" "C" "C" "C	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" "A" "A" "A" "A" "A" "A" "A" "A" "A"	"G" "A" "A" "A" "A" "A" "A" "C" "C" "C" "C	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [2,] [3,] [4,] [5,] [6,] [1,] [5,] [6,] [1,] [2,] [6,] [1,] [2,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" "G" "G	"G" [,1088] "T" "T" "T" "T" [,1101] "G" "G" "G" "G" "G" "G" "G" "G" "G" "G	"A" "A" [,1089] "C" "C" "C" "C" [,1102] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "G" "C" "C	"C" "C" "G" "G" "G" "G" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "C" "C" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G" "G	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [2,] [2,] [2,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" "T" [,1113] "G" "G" "G" "G" "G" "T" "T" "T" "T" "T"	"G" [,1088] "T" "T" "T" "T" "G" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" [,1090] "G" "G" "G" "G" "G" "G" "G" "G" "C" "C"	"C" "G" "G" "G" "C" "C" "C" "C" "C" "C"	"C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" "T" "T" "T" "T" "C" "C" "C" "C" "C" "C	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "C" "C" "C" "C" "C" "G" "G" "G" "G" "G	"C" "C" [,1098] "G" "G" "G" "G" "T" "T" "T" "T" "T" "T"
[5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"A" "A" [,1086] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C	"C" "C" [,1087] "G" "G" "G" "G" "T" "T" "T" "T" [,1113] "A" "G" "G" "G" "G" "T" "T" "T" "T" "T" "T	"G" [,1088] "T" "T" "T" "T" "G" "G" "G" "G" "G" "G"	"A" "A" [,1089] "C" "C" "C" "C" "G" "G" "G" "G" "G" "T" "T" "T" "T" "T	"C" "C" "G" "G" "G" "G" "G" "G" "G" "G"	"C" [,1091] "G" "G" "G" "G" "C" "C" "C" "C" "C" "A" "A" "A" "A" "A	"C" "C" "C" "C" "C" "T" "T" "T" "T" "T"	"C" "G" [,1093] "A" "A" "A" "A" [,1106] "T" "T" "T" "T" "T" "C" "C" "C" "C" "C"	"A" "A" [,1094] "A" "A" "A" "A" "A" "C" "C" "C" "C" "C"	"G" "G" "G" "G" "G" "G" "G" "T" "T" "T"	"G" [,1096] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A	"G" "A" "A" "A" "A" "A" "C" "C" "C" "C" "C	"C" "C" [,1098] "G" "G" "G" "G" [,1111] "T" "T" "T" "T" "T" "T" "T" "T" "T" "T

	Γ.11517	Γ.11527	[,1153]	Γ.11547	Γ.11557	Г. 11567	Γ.11577	Γ.11587	Γ.11597	Г. 11607	Г.11617	Г. 11627	Γ.11637
[1,]	"T"	"T"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"C"	"C"	"T"
[2,]	"T"	"T"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"C"	"C"	"T"
[3,] [4,]	"T" "T"	"C" "T"	"A" "A"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"T" "T"
[5,]	"T"	"T"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"C"	"C"	"T"
[6,]	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"C"	"C"	"T"
[1,]	[,1164] "G"	[,1165] "C"	[,1166] "T"	[,1167] "C"	[,1168] "T"	[,1169] "A"	[,1170] "C"	[,1171] "T"	[,1172] "T"	[,1173] "C"	[,1174] "T"	[,1175] "T"	[,1176] "C"
[2,]	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"T"	"T"	"C"	"T"	"T"	"C"
[3,]	"G"	"C"	"T"	"C"	"T"	"A"	"C" "C"	"T" "T"	"T" "T"	"C" "C"	"T" "T"	"T"	"C" "C"
[4,] [5,]	"G" "G"	"C" "C"	"T" "T"	"C" "C"	"T" "T"	"A" "A"	"C"	"T"	"T"	"C"	"T"	"T" "T"	"C"
[6,]	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"T"	"T"	"C"	"T"	"T"	"T"
	[,1177]		[,1179]	[,1180]	[,1181]	[,1182]	[,1183]	[,1184]	[,1185]	[,1186]	[,1187]	[,1188]	-, -
[1,]	"A"	"T"	"C"	"A"	"C"	"C"	"A"	"A"	"G"	"A" "A"	"A" "A"	"G"	"A"
[2,] [3,]	"A" "A"	"T" "T"	"C" "C"	"A" "A"	"C" "C"	"C" "C"	"A" "A"	"A" "A"	"G" "G"	"A"	"A"	"G" "G"	"A" "A"
[4,]	"A"	"T"	"C"	"A"	"C"	"C"	"A"	"A"	"G"	"A"	"A"	"G"	"A"
[5,]	"A"	"T"	"C"	"A"	"C"	"C"	"A"	"A"	"G"	"A"	"A"	"G"	"A"
[6,]	"A"	"T"	"C"	"A"	"C"	"C"	"A"	"A"	"G"	"A"	"A"	"G"	"A"
[1,]	"A"	[,1191] "T"	[,1192] "C"	[,1193] "C"	[,1194] "C"	[,1195] "A"	[,1196] "T"	[,1197] "C"	[,1198] "G"	[,1199] "T"	[,1200] "C"	[,1201] "T"	[,1202] "T"
[2,]	"A"	"T"	"C"	"C"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"
[3,]	"A"	"C"	"C"	"C"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"
[4,]	"A"	"T" "T"	"C" "C"	"C" "C"	"C" "C"	"A"	"T" "T"	"C" "C"	"G" "G"	"T" "T"	"C" "C"	"T" "T"	"T" "T"
[5,] [6,]	"A" "A"	"T"	"C"	"C"	"C"	"A" "A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"
L°,1	[,1203]	•	[,1205]	[,1206]	[,1207]	[,1208]	[,1209]	[,1210]	[,1211]	[,1212]	[,1213]	[,1214]	•
[1,]	"C"	"A"	"T"	"C"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"T"	"C"
[2,]	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"C" "C"	"G" "G"	"C" "C"	"G" "G"	"G" "G"	"C" "C"	"A" "A"	"T" "T"	"C" "C"
[3,] [4,]	"C"	"A"	"T"	"C"	"C"	"G"	"C"	"G"	"G"	"C"	"A"	"T"	"C"
[5,]	"C"	"A"	"T"	"C"	"C"	"G"	"C"	"G"	"G"	"C"	"A"	"T"	"C"
[6,]	"C"	"A"	"T"	"C"	"C"	"G"	"C"	"G"	"G"	"C"	"A"	"T"	"C"
F4 7	[,1216]		[,1218]	[,1219]	[,1220]	[,1221]	[,1222]	[,1223]	[,1224]	[,1225] "C"	[,1226] "T"	[,1227]	[,1228]
[1,] [2,]	"C" "C"	"T" "T"	"G" "G"	"C" "C"	"A" "A"	"G" "G"	"G" "G"	"C" "C"	"T" "T"	"C"	"T"	"G" "G"	"C" "C"
[3,]	"C"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"C"	"C"	"T"	"G"	"C"
[4,]	"C"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"T"	"C"	"T"	"G"	"C"
[5,]	"C" "C"	"T" "T"	"G" "G"	"C" "C"	"A" "A"	"G" "G"	"G" "G"	"C" "C"	"T" "C"	"C" "C"	"T" "T"	"G" "G"	"C" "C"
[6,]	[,1229]	[,1230]	[,1231]	[,1232]	[,1233]	[,1234]	[,1235]	[,1236]	[,1237]	[,1238]	[,1239]	[,1240]	[,1241]
[1,]	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"T"	"G"	"G"	"C"
[2,]	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"T"	"G"	"G"	"C"
[3,]	"T" "T"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"G" "G"	"C" "C"	"G" "G"	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"C" "C"
[4,] [5,]	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"T"	"T"	"G"	"G"	"C"
[6,]	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"T"	"G"	"G"	"C"
[1,]	[,1242] "C"	[,1243] "A"	[,1244] "C"	[,1245] "C"	[,1246] "T"	[,1247] "C"	[,1248] "C"	[,1249] "T"	[,1250] "C"	[,1251] "C"	[,1252] "-"	[,1253] "-"	[,1254] "-"
[2,]	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
[3,]	"C" "C"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"G" "G"
[4,] [5,]	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
F1 7	[,1255] "-"	[,1256] "-"	[,1257] "_"	[,1258] "-"	[,1259] "-"	[,1260] "-"	[,1261] "-"	[,1262] "-"	[,1263] "-"	[,1264] "-"	[,1265] "-"	[,1266] "-"	[,1267] "_"
[1,] [2,]		- "A"	- "G"	- "A"	- "A"	- "C"	- "C"	- "A"	- "A"	- "G"	- "T"	- "G"	- "A"
[3,]	"A"	"A"	"G"	"A"	"A"	"C"	"C"	"A"	"A"	"G"	"T"	"G"	"A"
[4,]	"A"	"A"	"G"	"A"	"A"	"C"	"C"	"A"	"A"	"G"	"T"	"G"	"A"
[5,] [6,]	"A"	"A" "A"	"G" "G"	"A" "A"	"A" "A"	"C" "C"	"C" "C"	"A" "A"	"A" "A"	"G" "G"	"T" "T"	"G" "G"	"A" "A"
[6,]	[,1268]	[,1269]	[,1270]	[,1271]	[,1272]	[,1273]	[,1274]	[,1275]		[,1277]	[,1278]	[,1279]	[,1280]
[1,]	"-"	"-"	"_"	"-"	"-"	"-"	"-"	"-"	"_"	"_"	"-"	"_"	"-"
[2,]		"A"	"G"	"C" "C"	"A"	"C" "C"	"T" "T"	"G"	"C" "C"	"A"	"G" "G"	"T" "T"	"G" "C"
[3,] [4,]	"G" "G"	"A" "A"	"G" "G"	"C"	"A" "A"	"C"	"T"	"G" "G"	"C"	"A" "A"	"G" "G"	"T"	"G" "G"
[5,]	"G"	"A"	"G"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"T"	"G"
	"G"	"A"	"G"	"C"	"A"	"C"	"T"	"G"	"C"	"G"	"G"	"T"	"G"
[1,]	[,1281] "-"	[,1282] "-"	[,1283] "-"	[,1284] "-"	[,1285] "-"	[,1286] "-"	[,1287] "-"	[,1288] "-"	[,1289] "-"	[,1290] "-"	[,1291] "-"	[,1292] "-"	[,1293] "-"
[2,]	"C"	"C"	"C"	"G"	"C"	"G"	"G"	"T"	"C"	"C"	"T"	"T"	"A"
[3,]	"C" "C"	"C" "C"	"C" "C"	"G" "G"	"C" "C"	"A" "G"	"G" "G"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"T" "T"	"C" "A"
[4,] [5,]	"C"	"C"	"C"	"G"	"C"	"G"	"G"	"T"	"C"	"C"	"T"	"T"	"A"
, , _													

[6,]	"C"	"C"	"C"	"G"	"T"	"G"	"G"	"T"	"C"	"C"	"T"	"T"	"C"
	[,1294]	[,1295]	[,1296]			[,1299]		[,1301]			[,1304]		[,1306]
[1,] [2,]	"-" "C"	"-" "C"	"-" "T"	"-" "C"	"-" "C"	"-" "T"	"-" "G"	"-" "C"	"-" "T"	"-" "G"	"-" "G"	"-" "A"	"_" "G"
[3,]	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"G"
[4,]	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"G"	"G"	"A"	"G"
[5,]	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"A"	"G"	"A"	"G"
[6,]		"C" [,1308]	"T"	"C"	"C" 「13117	"T" 「 13127	"G" F 13137	"C" [,1314]	"C" [,1315]	"A" [,1316]	"G" F 12177	"A" Г 12197	"G" F 13107
[1,]	L,1307]	L,1306]	_,±309]	[,1310] "-"	"-"	[,1312] "-"	"-"	_,1314 <u>]</u>	"-"		L,1317]	[,1318] "_"	[,1319] "-"
[2,]	"C"	"A"	"G"	"C"	"G"	"C"	"C"	"G"	"C"	"A"	"G"	"A"	"G"
[3,]	"C"	"A"	"G"	"C"	"G"	"C"	"C"	"G"	"C"	"A"	"G"	"G"	"G"
[4,]	"C" "C"	"A" "A"	"G" "G"	"C" "C"	"G" "G"	"C" "C"	"C" "C"	"G" "G"	"C" "C"	"A" "A"	"G" "G"	"A" "A"	"G" "G"
[5,] [6,]	"C"	"A"	"G"	"C"	"G"	"C"	"C"	"A"	"C"	"A"	"G"	"G"	"G"
L°,1		[,1321]	[,1322]			-	[,1326]		[,1328]	[,1329]		-	[,1332]
[1,]	"_"	"-"	"-"	"_"	"-"	"_"	"_"	"-"	"-"	"_"	"-"	"-"	"_"
[2,] [3,]	"G" "G"	"C" "C"	"A" "A"	"C" "C"	"A" "A"	"A" "A"	"A" "A"	"C" "C"	"A" "A"	"C" "C"	"T" "T"	"C" "C"	"C" "C"
[4,]	"G"	"C"	"A"	"C"	"A"	"A"	"A"	"C"	"A"	"C"	"T"	"C"	"C"
[5,]	"G"	"C"	"A"	"C"	"A"	"A"	"A"	"C"	"A"	"C"	"T"	"C"	"C"
[6,]	"G"	"C"	"A"	"C"	"A"	"A"	"A"	"C"	"A"	"C"	"T"	"C"	"C"
[1,]	[,1333] "_"	[,1334] "-"	[,1335] "-"	[,1336] "-"	[,1337] "-"	[,1338] "-"	[,1339] "-"	[,1340] "-"	[,1341] "-"	[,1342] "-"	[,1343] "-"	[,1344] "-"	[,1345] "-"
[2,]	- "T"	- "G"	- "G"	- "C"	- "G"	- "G"	- "G"	- "G"	- "T"	- "G"	- "G"	- "C"	- "T"
[3,]	"T"	"G"	"G"	"T"	"G"	"G"	"G"	"G"	"T"	"G"	"G"	"C"	"C"
[4,]	"T"	"G"	"G"	"C"	"G"	"G"	"G"	"G"	"T"	"G"	"G"	"C"	"T"
[5,] [6,]	"T" "T"	"G" "G"	"G" "G"	"C" "C"	"G" "G"	"G" "G"	"G" "G"	"G" "G"	"T" "T"	"G" "G"	"G" "G"	"C" "C"	"T" "T"
[0,]	[,1346]			[,1349]		[,1351]	[,1352]		[,1354]			-	[,1358]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"G"	"C"	"C"	"T"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"G"
[3,]	"G" "G"	"C" "C"	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"G" "G"	"G" "G"	"T" "A"	"G" "G"	"G" "G"	"G" "G"	"G" "G"
[4,] [5,]	"G"	"C"	"C"	"T"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"G"
[6,]	"G"	"C"	"C"	"T"	"G"	"G"	"G"	"G"	"C"	"A"	"G"	"G"	"G"
	[,1359]		[,1361]					[,1366]			[,1369]	[,1370]	[,1371]
[1,] [2,]	"-" "T"	"-" "G"	"-" "A"	"-" "G"	"-" "C"	"-" "T"	"-" "T"	"-" "C"	"-" "C"	"-" "C"	"-" "G"	"-" "A"	"_" "C"
[3,]	"T"	"G"	"A"	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"G"	"A"	"C"
[4,]	"T"	"G"	"A"	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"G"	"A"	"C"
[5,]	"T"	"G"	"A"	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"G"	"A"	"C"
[6,]	"T" [,1372]	"G" Г 13737	"A" [,1374]	"G" [,1375]	"C" F 13767	"Т" Г 13777	"T" [,1378]	"С" Г 13707	"C" [,1380]	"C" [,1381]	"G" F 13827	"A" [,1383]	"C" [,1384]
[1,]	"-"	"-"	"-"	"-"	[,1370] "-"	[,1377] "-"	"-"	"-"		"-"	_,1362 <u>]</u>	"-"	[,1364] "-"
[2,]	"G"	"G"	"A"	"C"	"G"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[3,]	"G"	"G"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"A"	"G"	"C"	"C"
[4,] [5,]	"G" "G"	"G" "G"	"A" "A"	"G" "G"	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"C" "C"	"C" "C"
[6,]	"G"	"G"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"A"	"G"	"C"	"C"
- /-			[,1387]										
[1,]	"_"	"-"	"_"	"_"	"_" "T"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,] [3,]	"A" "Δ"	"T" "C"	"C" "C"	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"A" "A"	"G" "G"	"G" "G"	"A" "A"	"G" "G"	"G" "G"
[4,]		"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"G"	"G"
[5,]		"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"G"	"G"
[6,]		"T"	"C"	"C"	"T" F 14027	"G" F 14037	"G"	"A" F 14057	"G" F 14067	"G" F 14077	"A" 「 14097	"G" F 14007	"G" F 14107
[1,]	[,1398] "-"	[,1399] "-"	[,1400] "-"	[,1401] "-"	[,1402] "-"	[,1403] "-"	[,1404] "-"	[,1405] "-"	[,1406] "-"	[,1407] "-"	[,1408] "-"	[,1409] "-"	[,1410] "-"
[2,]	"G"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"G"	"A"	"C"
[3,]	"G"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"G"	"A"	"C"
[4,]	"G"	"T" "T"	"G" "G"	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"G" "G"	"C" "C"	"A" "A"	"G" "G"	"A" "A"	"C" "C"
[5,] [6,]		"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"G"	"A"	"C"
r~,1		[,1412]		[,1414]			[,1417]		[,1419]	[,1420]	[,1421]		[,1423]
[1,]	"_"	"-"		" <u>'</u> "	"-"	"_"	" <u>"</u> "	"-"	"-"	"-"	"-"	"-"	"_"
_ /_	"A" "A"	"C" "C"	"C" "T"	"G" "G"	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"T" "T"	"A" "A"
[3,] [4,]	"A"	"C"	"C"	"G"	"G"	"C"	"C"	"C"	"C"	"T"	"C"	"T"	"A"
[5,]		"C"	"C"	"G"	"G"	"C"	"C"	"C"	"C"	"T"	"C"	"T"	"A"
[6,]		"C"	"C"	"G"	"G"	"C"	"C"	"C"	"C"	"T"	"C"	"T"	"A"
F1 7	[,1424] "-"	[,1425] "-"	[,1426] "-"	[,1427] "-"	[,1428] "-"	[,1429]	[,1430]		[,1432]	[,1433] "C"	[,1434]	[,1435] "G"	[,1436]
[1,] [2,]	"A"	"_" "C"	"C"	"_" "G"	"T"	"A" "A"	"G" "G"	"C" "C"	"T" "T"	"C"	"A" "A"	"G"	"C" "C"
[3,]	"A"	"C"	"C"	"G"	"T"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"
	"A"	"C"	"C"	"G"	"T"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"

[5,] [6,]	"A" "A"	"C" "C"	"C" "C"	"G" "G"	"T" "T"	"A" "A"	"G" "G"	"C" "C"	"T" "T"	"C" "C"	"A" "A"	"G" "G"	"C"
, _	[,1437]	[,1438]	[,1439]	[,1440]	[,1441]	[,1442]	[,1443]		[,1445]			[,1448]	
[1,]	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"Ć
_ ,_	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C
[3,]		"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C
_ ,_	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C
	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C
[6,]	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C
	[,1450]	[,1451]	[,1452]	[,1453]	[,1454]	[,1455]	Γ.14567	[,1457]	[,1458]	[,1459]	[,1460]	[,1461]	[,:
[1,]	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"C"	"C
_ ,_	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"C"	"C
										-			
[3,]		"C"	"C"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"C"	"C
[4,]	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"C"	"C
[5,]	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"C"	"C
[6,]	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"C"	"C
,_	[,1463]	[,1464]		[,1466]	[,1467]			[,1470]	Г 1/1717	[,1472]	[,1473]		
F4 7		"G"	"C"	"T"	"G"	"G"	"A"		"A"	"A"	"C"	"A"	"A'
_ ,_	"T"							"G"					
_ ,_	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A'
_ ,_	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A'
[4,]	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A'
	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A'
[6,]		"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A'
د∘,∟				-							-		
-4 -		[,1477]	[,1478]	[,1479]	[,1480]			[,1483]	[,1484]			[,1487]	
_ ,_	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G
_ ,_	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G
[3,]	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G
_ ,_	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G
	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G
		"C"	"A"	"C"	"A"	"T"	"T"	"G"	"A"	"C"	"C"	"G"	"G'
[6,]						-	•				-		
_		[,1490]	[,1491]	[,1492]		[,1494]		[,1496]		[,1498]		[,1500]	
[1,]	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"T"	"C"	"G"	"C"	"T'
[2,]	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"T"	"C"	"G"	"C"	"T'
	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"G"	"C"	"Т
_ ,_	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"T"	"C"	"G"	"C"	"T
									-				-
	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"T"	"C"	"G"	"C"	"T
[6,]		"G"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"G"	"C"	"T
	[,1502]	[,1503]	[,1504]	[,1505]	[,1506]	[,1507]	[,1508]	[,1509]	[,1510]	[,1511]	[,1512]	[,1513]	[,
[1,]	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T
	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T
_ ,_	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T
_ , _							-						
_ ,_	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T
_ , _	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T
[6,]	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T
	[,1515]	[,1516]	[,1517]	[,1518]	[,1519]	[,15207	[,1521]	[,15227	[,1523]	[,1524]	[,1525]	[,1526]	[,:
[1,]	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C
	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C
_ ,_				-		-	-		-			-	
_ , _	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C
[4,]	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C
[5,]	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C
	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C
,1			[,1530]	-					[,1536]			-	-
Г1 ¬													
[1,]		"A"	"C"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A
[2,]		"A"	"C"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A
[3,]		"A"	"C"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A
[4,]		"A"	"T"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A
[5,]		"A"	"T"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A
[6,]		"A"	"C"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A
L∪, J					-								
_	[,1541]	[,1542]	[,1543]	[,1544]		[,1546]	[,1547]		[,1549]			[,1552]	
[1,]	"C"	"T"	"G"	"C"	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"G"	"A
[2,]	"C"	"T"	"G"	"C"	"G"	"C"	"T"	"C"	"T"	"A"	"T"	"G"	"A
[3,]		"T"	"G"	"C"	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"G"	"A
[4,]		"T"	"G"	"C"	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"G"	"A"
L4,]	. C.						-		-				
[5,]	C	"T"	"G"	"C"	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"G"	"A'
[6,]	"C"	"T"	"G"	"C"	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"G"	"A
	[,1554]	[,1555]	[,1556]	[,1557]	[,1558]	Γ.15597	Γ.15607	[,1561]	[,1562]	[,1563]	[,1564]	[,1565]	
F4 7		"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C
		"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C
[2,]	"G"	"G"	"C"	"C"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C
[2,] [3,]		"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C
[2,] [3,]	"G"		"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C
[1,] [2,] [3,] [4,]		"G"	_		"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C
[2,] [3,] [4,] [5,]	"G"	"G" "C"	"("	"""	11	1	u						
[2,] [3,] [4,]	"G" "G"	"G"	"C"	"C"		F 45				1 1 5 7 6 7			
[2,] [3,] [4,] [5,] [6,]	"G" "G" [,1567]	"G" [,1568]	[,1569]	[,1570]	[,1571]		[,1573]		[,1575]			[,1578]	
[2,] [3,] [4,] [5,] [6,]	"G" "G" [,1567] "A"	"G"			[,1571] "T"	[,1572] "C"	[,1573] "A"	[,1574] "T"	[,15/5] "C"	"G"	[,15//] "C"	[,1578] "C"	L,
[2,] [3,] [4,] [5,] [6,]	"G" "G" [,1567] "A"	"G" [,1568]	[,1569]	[,1570]	[,1571]								

[4,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"C"	"C"
[5,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"C"	"C"
[6,]	"A" [,1580]	"T" [,1581]	"C" [,1582]	"T" [,1583]	"T" [,1584]	"C" [,1585]	"A" [,1586]	"T" [,1587]	"C" [,1588]	"G" [,1589]	"C" [,1590]	"C" [,1591]	"C" [,1592]
[1,]	"A"	"G"	"G"	"T"	"C"	"A"	"A"	"C"	"A"	"A"	"C"	"Ť"	"A"
[2,]	"A" "A"	"G" "G"	"G" "G"	"T" "T"	"C" "C"	"A" "A"	"A" "A"	"C" "C"	"A" "A"	"A" "A"	"C" "C"	"T" "T"	"A" "A"
[3,] [4,]	"A"	"G"	"G"	"T"	"C"	"A"	"A"	"C"	"A"	"A"	"C"	"T"	"A"
[5,]	"A"	"G"	"G"	"T"	"C"	"A"	"A"	"C"	"A"	"A"	"C"	"T"	"A"
[6,]		"G"	"G"	"T"	"C"	"A"	"A"	"C"	"A"	"A"	"C"	"T"	"A"
[1,]	[,1593] "C"	[,1594] "G"	[,1595] "A"	[,1596] "G"	[,1597] "C"	[,1598] "T"	[,1599] "G"	[,1600] "G"	[,1601] "A"	[,1602] "C"	[,1603] "T"	[,1604] "T"	[,1605] "T"
[2,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"C"	"T"	"T"	"T"
[3,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"C"	"T"	"T"	"T"
[4,] [5,]	"C" "C"	"G" "G"	"A" "A"	"G" "G"	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"A" "A"	"C" "C"	"T" "T"	"T" "T"	"T" "T"
[6,]		"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"C"	"T"	"T"	"T"
F4 7	[,1606]			[,1609]			[,1612]		[,1614]	[,1615]		[,1617]	[,1618]
[1,] [2,]	"G" "G"	"G" "G"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"A" "A"	"T" "T"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"A" "A"
[3,]	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"T"	"C"	"A"
[4,]	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"T"	"C"	"A"
[5,] [6,]	"G" "G"	"G" "G"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"A" "A"	"T" "T"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"A" "A"
L°,1		[,1620]		[,1622]			[,1625]	· -	[,1627]	[,1628]	-	[,1630]	[,1631]
[1,]	"C"	"C"	"A"	"T"	"C"	"A"	"G"	"T"	"A"	"T"	"C"	"A"	"C"
[2,] [3,]	"C" "C"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"A" "A"	"G" "G"	"T" "T"	"A" "A"	"T" "T"	"C" "C"	"A" "A"	"C" "C"
[4,]	"C"	"C"	"A"	"T"	"C"	"A"	"G"	"T"	"A"	"T"	"C"	"A"	"C"
[5,]	"C"	"C"	"A"	"T"	"C"	"A"	"G"	"T"	"A"	"T"	"C"	"A"	"C"
[6,]		"C" [,1633]	"A" Γ 1634]	"T" [,1635]	"C" F 16367	"A" [,1637]	"G" [,1638]	"Т" Г 16397	"A" [,1640]	"T" [,1641]	"C" [,1642]	"A" [,1643]	"C" [,1644]
[1,]	"A"	"G"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"C"	"C"
[2,]	"A"	"G"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"C"	"C"
[3,] [4,]	"A" "A"	"G" "G"	"C" "C"	"C" "C"	"A" "A"	"C" "C"	"T" "T"	"G" "G"	"C" "C"	"A" "A"	"G" "G"	"C" "C"	"C" "C"
[5,]	"A"	"G"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"C"	"C"
[6,]		"G"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"C"	"C"
[1,]	[,1645] "A"	[,1646] "G"	[,1647] "C"	[,1648] "A"	[,1649] "T"	[,1650] "T"	[,1651] "G"	[,1652] "G"	[,1653] "G"	[,1654] "G"	[,1655] "C"	[,1656] "A"	[,1657] "G"
[2,]	"A"	"G"	"C"	"A"	"T"	"T"	"G"	"G"	"G"	"G"	"C"	"A"	"G"
[3,]	"A"	"G"	"C"	"A"	"T"	"T"	"G"	"G"	"G"	"G"	"C"	"A"	"G"
[4,] [5,]	"A" "A"	"G" "G"	"C" "C"	"A" "A"	"T" "T"	"T" "T"	"G" "G"	"G" "G"	"G" "G"	"G" "G"	"C" "C"	"A" "A"	"G" "G"
[6,]	"A"	"G"	"C"	"A"	"T"	"T"	"G"	"G"	"G"	"G"	"C"	"A"	"G"
- /-	[,1658]			[,1661]			[,1664]			[,1667]		[,1669]	[,1670]
[1,] [2,]	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"A" "A"
[3,]	"C"	"T"	"G"	"G"	"C"	"A"	"T"	"C"	"C"	"C"	"C"	"C"	"A"
[4,]	"C"	"T"	"G"	"G"	"C"	"A"	"T"	"C"	"C"	"C"	"C"	"C"	"A"
[5,] [6,]	"C" "C"	"T" "T"	"G" "G"	"G" "G"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"A" "A"
[0,]	[,1671]				[,1675]								
[1,]	"G"	"G"	"C"	"C"	"G"	"G"	"C"	"C"	"Ť"	"C"	"G"	"Ť"	"C"
[2,] [3,]	"G" "G"	"G" "G"	"C" "C"	"C" "C"	"G" "G"	"G" "G"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"G" "G"	"T" "T"	"C" "C"
[4,]	"G"	"G"	"C"	"C"	"G"	"G"	"C"	"C"	"T"	"C"	"G"	"T"	"C"
[5,]	"G"	"G"	"C"	"C"	"G"	"G"	"A"	"C"	"T"	"C"	"G"	"T"	"C"
[6,]	"G"	"G" [,1685]	"C"	"C"	"G" [,1688]	"G"	"C"	"C"	"T"	"C" [,1693]	"G"	"T"	"C" [,1696]
[1,]	[,1684] "A"	"C"	[,1686] "C"	[,1687] "A"	"T"	[,1689] "G"	[,1690] "G"	[,1691] "T"	[,1692] "C"	"A"	[,1694] "T"	[,1695] "C"	"G"
[2,]		"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
[3,]		"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
[4,] [5,]		"C" "C"	"C" "C"	"A" "A"	"T" "T"	"G" "G"	"G" "G"	"T" "T"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"G" "G"
[6,]	"A"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
F4 7	[,1697]	[,1698]		[,1700]			[,1703]		[,1705]	[,1706]		[,1708]	[,1709] "T"
[1,] [2,]	"T" "T"	"G" "G"	"C" "C"	"T" "T"	"C" "C"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"G" "G"	"T" "T"
[3,]	"T"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"G"	"T"
[4,]	"T"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"G"	"T"
[5,] [6,]	"T"	"G" "G"	"C" "C"	"T" "T"	"C" "C"	"A" "A"	"C" "C"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"G" "G"	"T" "T"
د~,٦	[,1710]	[,1711]	[,1712]	[,1713]		[,1715]	[,1716]		[,1718]	[,1719]	[,1720]	[,1721]	[,1722]
[1,]	"G"	"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"
[2,]	u"	"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"

[3,]		"G" "G"	"G" "G"	"A" "A"	"C" "C"	"T" "T"	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"A" "A"	"C" "C"	"C" "C"
[4,]						т "Т"				-		-	
[5,]		"G"	"G"	"A"	"C"	-	"G"	"C"	"C"	"C"	"A"	"C"	"C"
[6,]		"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"
			[,1725]			[,1728]		[,1730]		[,1732]	[,1733]	[,1734]	[,173
[1,]		"A"	"T"	"G"	"A"	"C"	"A"	"T"	"C"	"A"	"C"	"C"	"C"
[2,]		"A"	"T"	"G"	"A"	"C"	"A"	"T"	"C"	"A"	"C"	"C"	"C"
[3,]	"G"	"A"	"T"	"G"	"A"	"C"	"A"	"T"	"C"	"A"	"C"	"T"	"C"
[4,]	"G"	"A"	"T"	"G"	"A"	"C"	"A"	"T"	"C"	"A"	"C"	"C"	"C"
[5,]	"G"	"A"	"T"	"G"	"A"	"C"	"A"	"T"	"C"	"A"	"C"	"C"	"C"
[6,]		"A"	"T"	"G"	"A"	"C"	"A"	"T"	"C"	"A"	"C"	"C"	"C"
,_	[,1736]	[,1737]	[,1738]	Γ.17397	[,1740]	Γ.17417	[,1742]	[,1743]	[,1744]	[,1745]	[,1746]	[,1747]	[,174
[1,]		"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
[2,]		"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"T"	"G"	"T"
[3,]		"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
		"C"		"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
[4,]			"A"	-				-		-			
[5,]		"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
[6,]		"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
	[,1749]	[,1750]		[,1752]		[,1754]		[,1756]	[,1757]	[,1758]	[,1759]	[,1760]	[,176
[1,]		"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
[2,]	"T"	"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
[3,]		"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
[4,]		"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
[5,]		"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
[6,]		"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
-∼,1	[,1762]	[,1763]	[,1764]	[,1765]	· ·	[,1767]	[,1768]	[,1769]	[,1770]	[,1771]	[,1772]	Γ,17737	[,177
Г1 Т		"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[1,] [2,]		"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
		"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[3,]				-		-	-	-		-		-	
[4,]		"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[5,]		"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[6,]		"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
	[,1775]	[,1776]	[,1777]	[,1778]	[,1779]	[,1780]	[,1781]	[,1782]	[,1783]	[,1784]	[,1785]	[,1786]	[,178
[1,]	"C"	"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
[2,]		"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
[3,]		"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
[4,]		"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
[5,]		"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"T"	"G"	"T"
[6,]		"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
Lo,]	[,1788]	[,1789]		-		[,1793]	-	[,1795]		[,1797]	[,1798]	[,1799]	[,180
F4 7			L,1790]	[,1791]			[,1794] "T"		[,1796]	"T"		"C"	
[1,]		"C"	-	"G"	"G"	"G"	-	"G"	"A"	-	"G"	-	"G"
[2,]		"C"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"T"	"G"	"C"	"G"
[3,]		"C"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"T"	"G"	"C"	"G"
[4,]		"C"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"T"	"G"	"C"	"G"
[5,]	"G"	"C"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"T"	"G"	"C"	"G"
[6,]	"G"	"C"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"T"	"G"	"C"	"G"
	[,1801]	[,1802]	[,1803]	[,1804]	[,1805]	[,1806]	[,1807]	[,1808]	[,1809]	[,1810]	[,1811]	[,1812]	[,181
[1,]	"Ć"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"Á"
[2,]		"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
[3,]		"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
		"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
[4,]		"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
[5,]	"("	"T"		"G"				"C"					
[6,]			"G"		"C"	"A"	"G"		"G"	"G"	"G"	"G"	"A"
- <i>-</i>	[,1814]	[,1815]	[,1816]	[,1817]			[,1820]	[,1821]		[,1823]	[,1824]	[,1825]	[,182
[1,]		"C"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"A"	"T"	"A"	"T"
[2,]		"C"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"A"	"T"	"A"	"T"
[3,]		"C"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"A"	"T"	"A"	"T"
[4,]	"T"	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"A"	"T"	"A"	"T"
[5,]	"T"	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"A"	"T"	"A"	"T"
[6,]	"T"	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"A"	"T"	"A"	"T"
_ ,_	[,1827]	[,1828]	[,1829]	[,1830]		[,1832]	[,1833]	[,1834]	[,1835]	[,1836]	[,1837]	[,1838]	[,183
[1,]		"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
[2,]		"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
		"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
[3,]		"T"		"T"	"C"	"G"				-			"T"
[4,]		-	"G"	-			"G"	"A"	"A"	"G"	"G"	"A"	
[5,]		"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
[6,]		"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
	[,1840]	[,1841]	[,1842]	[,1843]	[,1844]	[,1845]	[,1846]	[,1847]	[,1848]	[,1849]	[,1850]	[,1851]	[,185
F4 7	"T"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[1,]		"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
		"T"	"T"	"G"	"C"	"T"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[2,]		"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[2,] [3,]				-		-	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[2,] [3,] [4,]	"T"	-	"T"	"C"	"C"								
[2,] [3,] [4,] [5,]	"T" "T"	"T"	"T"	"G" "C"	"C"	"C" "T"				-			
[2,] [3,] [4,]	"T" "T" "T"	"T" "T"	"T"	"G"	"C"	"T"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[2,] [3,] [4,] [5,]	"T" "T" "T" [,1853]	"T"	-	-		-				-			

[2.] "C" "A" "G" "G" "A" "A" "C" "A" "A" "C" "A" "A" "A" "A														
[2] [2] [2] [3] [3] [4]			"G"	"G"	"G"	"C"	"A"	"C"	"C"	"G"	"A"	"G"	"A"	"A"
Section Sect														
	[4,]	"C"	"A"	"G"	"G"	"C"	"A"	"C"	"C"	"G"	"A"	"G"	"A"	"A"
	[5,]	"C"	"A"	"G"	"G"	"C"	"A"	"C"	"C"	"G"	"A"	"G"	"A"	"A"
	[6,]	"C"	"A"	"G"	"G"	"C"	"A"	"C"	"C"	"G"	"A"	"G"	"A"	"A"
[1.3] A* "C" TT "G" "C" "T" "G" "C" "T" "G" "C" "C" "T" "G" "C" "C" "T" "G" "C" "C" "C" "C" "T" "G" "C" "G" "T" "G" "C" "G" "T" "G" "G" "G" "G" "G" "G" "G" "G		Γ.18667	Γ.18677	Γ.18687	Γ.18697	Γ.18707	Γ.18717	Γ.18727	Γ.18737	Γ.18747	Γ.18757	Γ.18767	Γ.18777	Γ.18787
[2.3] AA CC TT GC CC TT GC CC CC	Г1. Т												-, -	
The content of the				-			-					-		
[2.5] A* C* C* T* G* C* C* T* G* C*	- /-			-	-		-		-		-	-	-	
The control of the				-			-		-		-	-		
				-			-					-		
1.1879 1.1880 1.1881 1.1882 1.1883 1.1885 1.1885 1.1887 1.1886 1.1887 1.1888 1.1887 1.1888 1.1887 1.1888 1.1887 1.1888 1.1887 1.1888 1.1887 1.1888 1.1887 1.1888 1.1888 1.1887 1.1888 1	- /-			-	-	-	-		-		-	-		
[1.1] **G**** **A***** **C*******************	[6,]	"A"	"C"	"T"	"G"	-	"T"	"G"	"C"	"C"	"C"	"T"	"G"	"C"
Fig. G. A. A. G. A. C. C. C. A. A. C. C		[,1879]	[,1880]	[,1881]	[,1882]	[,1883]	[,1884]	[,1885]	[,1886]	[,1887]	[,1888]	[,1889]	[,1890]	[,1891]
[2, 3] G. A. A. G. A. C. C. C. A. A. A. G. C. C. A. A. G. G. C. A. G. G. G. G. G. G. G	Γ1,7	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"
	- /-		"A"	"G"	"A"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"
[2.5] "G" AA' "A' "G" "A' "C" "C" "A' "A' "A' "G" "C" "C" "A' "G" "G" "C" "A' "G" "G" "G" "A' "G" "G" "A' "G" "G" "A' "G" "G" "G" "A' "G" "G" "G" "A' "G" "G" "A' "G" "G" "A' "G" "G" "A' "G" "G" "A' "G" "G" "G" "G" "A' "G" "G" "G" "A' "G" "G" "G" "G" "A' "G" "G" "G" "G" "G" "G" "A' "G" "G" "G" "G" "G" "A' "G" "G" "G" "G" "G" "G" "G" "G" "G" "G														
The content of the											-	-		
[1,1] [1,18] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,83] [1,94] [1,							-				-			
[1.3] 17" 6" 6" "A" 6" 6" 6" 10" 10" 10" 10" 10" 10" 10" 10" 10" 10	[6,]						-				-			
The control of the	[1,]	"T"	"G"	"A"	"G"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"	"A"
[25] TT	[2.7	"T"	"G"	"A"	"G"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"	"A"
[2.5] TT " "C" "A" "G" "C" "C" "C" "T" "C" "C" "A" "G" "G" "A" "A" "G" "G" "A" "A" "G" "G														
The control of the					-			-	-				-	
					-			-	-					
1,1965 1,1966 1,1967 1,1988 1,1996 1,1910 1,1911 1,1912 1,1913 1,1913 1,1913 1,1913 1,1915 1,1916 1,1917								-	-					
[1,]	[b,]							-						
[2], [3], [6], [4], [7], [7], [7], [7], [6], [7], [7], [7], [8], [7], [7], [7], [7], [7], [7], [7], [7			_, _						_, _				_, _	
\$\begin{array}{c c c c c c c c c c c c c c c c c c c				-			-							
[44] Cr. "Ar "Tr "Cr. "Gr. "Tr "Cr. "Gr. "Tr "Cr. "Gr. "Cr. "Ar "Gr. "Cr. "Cr. "Cr. "Cr. "Cr. "Ar "Gr. "Cr. "Cr. "Cr. "Cr. "Cr. "Ar "Gr. "Cr.	[2,]	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"		
[4] Nor Name Name Name Name Name Name Name Name	[3,]	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"C"
The color The		"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"C"
[6] "A" "T" "C" "G" "G" "C" "A" "G" "C" "A" "G" "C" "T" "A" "G" "C" "T" "A" "G" "C" "T" "G" "C" "T" "A" "G" "C" "T" "A" "G" "C" "T" "A" "A" "T" "G" "C" "T" "A" "G" "C" "A" "G" "A" "A" "A" "A" "A" "A" "A" "A" "A" "T" "G" "G" "A" "A" "A" "G" "C" "T" "G" "A" "A" "A" "G" "G" "T" "G" "T" "G" "T" "G" "A" "A" <td></td> <td>"G"</td> <td>"Δ"</td> <td>"T"</td> <td>"C"</td> <td>"G"</td> <td>"T"</td> <td>"G"</td> <td>"G"</td> <td></td> <td>"Δ"</td> <td>"G"</td> <td>"C"</td> <td>"C"</td>		"G"	"Δ"	"T"	"C"	"G"	"T"	"G"	"G"		"Δ"	"G"	"C"	"C"
				-	-		-						-	
	[0,]			-			-							
$ \begin{bmatrix} \tilde{1} \\ \tilde{1} \\ \tilde{1} \\ \tilde{1} \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1$														
										-				
$ \begin{bmatrix} 1 \\ 5 \\ 6 \\ 7 \\ 7 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 8$	[2,]		"A"		-					-			-	-
$ \begin{bmatrix} \tilde{1} \\ \tilde{1} \\ \tilde{1} \\ \tilde{1} \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} =$	[3,]	"C"	"A"	"G"	"C"	"A"	"G"	"A"	"A"	"T"	"G"	"G"	"C"	"T"
	[4,]	"C"	"A"	"G"	"C"	"A"	"G"	"A"	"A"	"T"	"G"	"G"	"C"	"T"
$ \begin{bmatrix} \bar{6} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 1 $	Γ5.T	"C"	"A"	"G"	"C"	"A"	"G"	"A"	"A"	"T"	"G"	"G"	"C"	"T"
[1,931] [1,932] [1,933] [1,934] [1,935] [1,936] [1,936] [1,937] [1,938] [1,939] [1,940] [1,941] [1,941] [1,943] [1,943] [1,947] [1,943] [1,947] [1,943] [1,947] [1,948] [1,947] [1,943] [1,947] [1,948] [1,947] [1,948] [1,947] [1,948] [1,947] [1,948		"C"	"Δ"	"G"	"C"	"Δ"	"G"	"Δ"	"Δ"	"T"	"G"	"G"	"C"	"T"
$ \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{bmatrix} \ \begin{array}{ccccccccccccccccccccccccccccccccccc$	L°,1									-	-		-	=
	Г1 7													
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		-	-	-	-				-		-	-	-	
$ \begin{bmatrix} 5 \\ 5 \\ 6 \\ 6 \end{bmatrix} & \begin{bmatrix} 6 \\ 6 \\ 7 \end{bmatrix} & \begin{bmatrix} 7 \\ 7 7 \\ 7$			-		-				-		-	-	-	-
	[4,]	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
[1,1944] [1,1945] [1,1946] [1,1947] [1,1948] [1,1949] [1,1950] [1,1951] [1,1952] [1,1953] [1,1954] [1,1955] [1,1956] [1,1956] [1,1957] [1,	[5,]	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
[1,1944] [1,1945] [1,1946] [1,1947] [1,1948] [1,1949] [1,1950] [1,1951] [1,1952] [1,1953] [1,1954] [1,1955] [1,1956] [1,1956] [1,1957] [1,	Г6.Т	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
$ \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \end{bmatrix} \ \begin{array}{cccccccccccccccccccccccccccccccccc$	L - / _	Г 19447	Г 19457	Г 19467	Г 19477	Г 19487	Г 19497	Г 19507	Г 19517	Г 19527	Г 19537	Г 19547	Г 19557	Г 19567
$ \begin{bmatrix} 2 \\ 3 \\ 1 \\ 2 \\ 3 \\ 1 \end{bmatrix} \begin{array}{c} 8 \\ 7 \\ 6 \\ 6 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7$	Г1 Т													
$ \begin{bmatrix} 3, 1 \\ 4, 1 \end{bmatrix} \ \ ^{1} \ \ \ ^{1} \ \ ^{1} \ \ ^{1} \ \ \ ^{1} \ \ \ ^{1} \ \ \ ^{1} \ \ \ \ ^{1} \ \ \ \ ^{1} \ \ \ \ \ \ \ ^{1} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$														
[4,] "A" "G" "C" "C" "G" "A" "G" "G" "C" "C" "T" "C" "C" "C" "C" "C" "C" "C	_ /_											-		
$ \begin{bmatrix} 5, 5 \\ 6, 7 \end{bmatrix} & A^{R} & G^{R} & C^{R} & C^{R} & C^{R} & G^{R} & A^{R} & G^{R} & G^{R} & G^{R} & C^{R} & C^{R} & T^{R} & C^{R} & C$									-					C
[6,										C				"C"
[,1957] [,1958] [,1959] [,1960] [,1961] [,1962] [,1963] [,1964] [,1965] [,1966] [,1967] [,1968] [,1969] [,1969] [,1] [1,] "G" "A" "G" "C" "T" "C" "A" "C" "C" "C" "T" "G" "G" "G" "G" "G" "G" "G" "G" "G												-		
[1,] "G" "A" "G" "C" "T" "C" "A" "C" "C" "T" "G" "G" "G" "G" "G" "G" "G" "G" "G	[6,]	"A"	"G"	"C"	"C"	"G"	"A"	"G"	"G"	"C"	"C"	"T"	"C"	"C"
[1,] "G" "A" "G" "C" "T" "C" "A" "C" "C" "T" "G" "G" "G" "G" "G" "G" "G" "G" "G		[,1957]	[,19587	[,19597	[,19607	[,19617	[,19627	[,19637	[,19647	[,1965]	[,1966]	[,1967]	[,19687	[,1969]
$ \begin{bmatrix} 2, \\ 3 \end{bmatrix} \ \ \ \ \ \ \ $	Г1.7													
[3,] "G" "A" "G" "C" "T" "C" "A" "C" "C" "C" "T" "G" "G" "G" [4,] "G" "A" "G" "G" "C" "T" "G" "G" "G" "G" "G" "G" "G" "G" "G														
[4,] "G" "A" "G" "C" "T" "C" "A" "C" "C" "C" "T" "G" "G" "G" "G" [5,] "G" "A" "G" "G" "C" "T" "C" "A" "C" "C" "C" "T" "G" "G" "G" [6,] "G" "A" "G" "C" "T" "G" "A" "C" "C" "C" "T" "G" "G" "G" [6,] "G" "A" "G" "C" "T" "G" "G" "G" "G" "G" "G" "G" "G" "G														
[5,] "G" "A" "G" "C" "T" "C" "A" "C" "C" "T" "G" "G" "G" "G" "G" "G" "G" "G" "G						-	-		-			-		
[6,] "G" "A" "G" "C" "T" "C" "A" "C" "C" "T" "G" "G" "G" "G" "G" [,1970] [,1971] [,1972] [,1973] [,1974] [,1975] [,1976] [,1977] [,1978] [,1979] [,1980] [,1981] [,1982] [1,] "G" "C" "C" "C" "C" "C" "C" "C" "C" "C"					-	-	-		-		-	-	-	
[,1970] [,1971] [,1972] [,1973] [,1974] [,1975] [,1976] [,1977] [,1978] [,1979] [,1980] [,1981] [,1982] [,1] [1,] "G" "C" "C" "C" "C" "C" "A" "C" "C" "T" "G" "C" "C" "C" "C" "C" "C" "C" "C" "C					-	-	-		-		-	-	-	
[1,] "G" "C" "C" "C" "C" "C" "A" "C" "C" "T" "G" "C" "C" "C" "C" "C" "C" "C" "C" "C	[6,]													
[2,] "G" "C" "C" "C" "C" "G" "C" "C" "T" "G" "C" "C" "C" "C" "C" "C" "C" "C" "C														
[3,] "G" "C" "C" "C" "C" "A" "C" "C" "T" "G" "T" "C" "C" "C" "C" "C" "C" "C" "C" "C	[1,]													
[3,] "G" "C" "C" "C" "C" "A" "C" "C" "T" "G" "T" "C" "C" "C" "C" "C" "C" "C" "C" "C	[2,]	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"C"	"T"	"G"	"C"	"C"	"C"
[4,] "G" "C" "C" "C" "C" "C" "A" "C" "C" "T" "G" "C" "C" "C" "C" "C" "C" "C" "C" "C		"G"	"C"	"C"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"T"	"C"	"C"
[5,] "G" "C" "C" "C" "C" "A" "C" "C" "T" "G" "C" "C" "C" "C" "C" "C" "C" "C" "C														
[6,] "G" "C" "C" "C" "C" "A" "C" "C" "A" "C" "T" "G" "C" "C" "C" "C" "C" "C" "C" "C" "C					-				-	-			-	
[,1983] [,1984] [,1985] [,1986] [,1987] [,1988] [,1989] [,1990] [,1991] [,1992] [,1993] [,1994] [,1995] [,1996] [,1997] [,1998			-		-				-	-	-		-	
[1,] "C" "C" "A" "C" "C" "A" "C" "G" "T" "C" "C" "C" "C" "C" "C" "C" "C" "C	[b,]		-		-				-				-	
[2,] "C" "C" "A" "C" "C" "A" "C" "G" "T" "C" "C" "C" "C" "C" "C" "C" "C" "C														
[3,] "C" "C" "A" "C" "C" "A" "C" "G" "T" "C" "C" "C" "C" "C" [4,] "C" "C" "C" "C" "C" "C" "C" "C" "C" "C		"C"												
[4,] "C" "C" "A" "C" "C" "A" "C" "G" "T" "C" "C" "C" "C" "C" "C" "C" "C" "C			"("	"A"	"C"	"C"	"A"	"C"	"G"	"T"	"C"	"C"	"C"	"C"
[4,] "C" "C" "A" "C" "C" "A" "C" "G" "T" "C" "C" "C" "C" "C" "C" "C" "C" "C			C				" A "	"C"	"G"	"T"	"C"	"C"	"C"	"C"
[5,] "C" "C" "A" "C" "C" "A" "C" "G" "T" "C" "C" "C" "C" "C" "C" "C" "C" "C	[2,]	"C"		"A"	"C"	C	A							
[6,] "C" "C" "A" "C" "C" "G" "T" "C" "C" "C" "C"	[2,] [3,]	"C" "C"	"C"						"G"	"T"	"C"	"C"	"C"	"C"
2-73	[2,] [3,] [4,]	"C" "C" "C"	"C" "C"	"A"	"C"	"C"	"A"	"C"						
[,בשטב] ב,בשטר ב,באטר ב,בשטבן	[2,] [3,] [4,] [5,]	"C" "C" "C"	"C" "C" "C"	"A" "A"	"C" "C"	"C" "C"	"A" "A"	"C" "C"	"G"	"T"	"C"	"C"	"C"	"C"
	[2,] [3,] [4,] [5,]	"C" "C" "C"	"C" "C" "C"	"A" "A" "A"	"C" "C" "C"	"C" "C" "C"	"A" "A" "A"	"C" "C" "C"	"G" "G"	"T" "T"	"C" "C"	"C" "C"	"C" "C"	"C" "C"

	"G"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
2,]		"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
[3,]		"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
[4,]		"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
[5,]	"G"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
[6,]	"G"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
	[,2009]	[,2010]	[,2011]	[,2012]	[,2013]	[,2014]	[,2015]	[,2016]	[,2017]	[,2018]	[,2019]	[,2020]	[,2021]
1.1	"A"	"G"	"G"	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"T"
2,]		"G"	"G"	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"T"
3,]		"G"	"G"	"A"	"C"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"C"
		"G"	"G"	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"T"
[4,]					"T"				-		"G"	"C"	т "Т"
5,]		"G"	"G"	"A"	-	"G"	"A"	"G"	"G"	"A"	-	-	•
6,	"A"	"G"	"G"	"A"	"C"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"C"
	[,2022]	[,2023]	[,2024]	[,2025]	[,2026]	[,2027]	[,2028]	[,2029]	[,2030]		[,2032]	[,2033]	[,2034]
[1,]	"G"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
[2,]	"G"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
[3,]	"A"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
4,]		"C"	"C"	"C"	"G"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
5,]		"C"	"C"	"C"	"G"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
	"A"	"C"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
٠,٦							-		-				-
-1 7	[,2035]	[,2036]	[,2037]	[,2038]	[,2039]	[,2040]	[,2041]	[,2042]	[,2043]				
–	"C"	"T"	"G"	"A"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
2,]		"T"	"G"	"A"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
3,]		"T"	"G"	"G"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
[4,]	"C"	"T"	"G"	"A"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
5,]		"T"	"G"	"A"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
	"C"	"T"	"G"	"G"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
_ ,_	[,2048]	[,2049]	[,2050]	[,2051]	[,2052]	[,2053]	[,2054]	[,2055]	[,2056]	-	[,2058]		[,2060]
1 7	"C"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
2,]		"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
		"C"	"A"	"T"	"C"	"C"	Α "Δ"	"G"	"A"	"T"	"C"	"A"	"G"
[3,]													
4,]		"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
[5,]		"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
[6,]	"C"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
	[,2061]	[,2062]	[,2063]	[,2064]	[,2065]	[,2066]	[,2067]	[,2068]	[,2069]	[,2070]	[,2071]	[,2072]	[,2073]
1,]		"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
2,]		"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
3,]		"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
						"T"							
[4,]		"G"	"A"	"G"	"C"	-	"G"	"G"	"A"	"G"	"A"	"C"	"C"
[5,]		"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
[6,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
	[,2074]	[,2075]	[,2076]	[,2077]	[,2078]	[,2079]	[,2080]	[,2081]	[,2082]	[,2083]	[,2084]	[,2085]	[,2086]
1.7	"A"	"A"	"T"	"G"	"T"	"C"	"T"	"G"	"A"	"G"	"C"	"C"	"T"
2,]		"A"	"T"	"G"	"T"	"C"	"T"	"G"	"A"	"-"	"_"	"-"	"_"
3,]		"A"	"T"	"G"	"T"	"C"	"T"	"G"	"A"	"G"	"C"	"C"	"T"
		"A"	"T"	"G"	"T"	"C"	"T"	"G"	"A"	"G"	"C"	"C"	"T"
		"A"	"T"	"G"	"T"	"C"	"T"	"G"	"A"	"G"	"C"	"C"	"T"
5,]			-		-		-			"G"	"_"	"_"	" "
_ნ,∐	"A"	"A"	"T"	"G"	"T"	"C"	"T"	"G"	"A"				
	[,2087]	[,2088]	[,2089]	[,2090]	[,2091]	[,2092]	[,2093]	[,2094]		[,2096]	[,2097]	[,2098]	[,2099]
[1,]		"C"	"G"	"G"	"A"	"G"	"C"	"T"	"G"	"C"	"A"	"G"	"G"
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
3,]	"G"	"C"	"G"	"G"	"A"	"G"	"C"	"T"	"G"	"C"	"A"	"G"	"G"
4,]		"C"	"G"	"G"	"A"	"G"	"C"	"T"	"G"	"C"	"A"	"G"	"G"
5,]		"C"	"G"	"G"	"A"	"G"	"C"	"T"	"G"	"C"	"A"	"G"	"G"
	"-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
,_		_ [,2101]								[,2109]			
-1 7							"C"						"C"
	"G"	"G"	"C"	"A" "-"	"G" "-"	"G"		"G"	"A" "-"	"G"	"G" "-"	"C"	
	"_"	"_"	"-"			"_"	"_"	"_"		"_"		"_"	"-"
	"G"	"G"	"T"	"G"	"G"	"G"	"C"	"G"	"A"	"G"	"G"	"C"	"C"
[4,]	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"A"	"G"	"G"	"C"	"C"
5,]	"G"	"G"	"C"	"A"	"G"	"G"	"T"	"G"	"A"	"G"	"G"	"C"	"C"
6.1	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"_"
, _		Γ.21147	[,2115]	Γ.21167	[,2117]	Γ.21187	Γ.21197	Γ.21207	Γ.21217	[,2122]	Γ.21237	Γ.21247	Γ.21257
1 7	"T"	"C"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"A"	"G"	"G"	"G"
	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	"T"	"C"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"A"	"G"	"G"	"G"
[4,]		"C"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"A"	"G"	"G"	"G"
5,]	"T"	"C"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"A"	"G"	"G"	"G"
[6,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
, _		[,2127]	[,2128]	[,2129]	[,2130]	[,21317	[,2132]	[,2133]	[,21347	[,2135]	[,21367	[,21377	[,21387
		"C"	"C"	"T"	"G"	"A"	"G"	"G"	"C"	"A"	"G"	"G"	"A"
1.7		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
1,]		- "C"	- "C"	- "T"	- "G"	- "A"	- "G"	- "G"	- "C"	- "A"	- "G"	- "G"	- "A"
2,]				1	u								
[2,] [3,]	"T"			HT?	11.611								
[2,] [3,] [4,]	"T" "T"	"C"	"C"	"T"	"G"	"A"	"G"	"G"	"C"	"A"	"G"	"G"	"A"
[2,] [3,]	"T" "T" "T"			"T" "T" "_"	"G" "G" "-"	"A" "A" "-"	"G" "G" "-"	"G" "G" "-"	"C" "C" "-"	"A" "A" "_"	"G" "-"	"G" "G" "-"	"A" "A" "_"

[1,]	"A"	"C"	"T"	"C"	"G"	"A"	"C"	"T"	[,2147] "C"	"T"	"C"	"C"	"A"
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"_"	"-"	"-"
[3,]		"C"	"T"	"C"	"A"	"A"	"C"	"T"	"C"	"T"	"C"	"C"	"A"
[4,]	"A"	"C"	"T"	"C"	"G"	"A"	"C"	"T"	"C"	"T"	"C"	"C"	"A"
[5,]	"A"	"C"	"T"	"C"	"G"	"A"	"C"	"T"	"C"	"T"	"C"	"C"	"A"
[6,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
	[,2152]	[,2153]	[,2154]	[,2155]	[,2156]	[,2157]	[,2158]	[,2159]	[,2160]	[,2161]	[,2162]	[,2163]	[,2
[1,]	"A"	"C"	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"A"	"G"	"C"	"A"
[2,]	"-"	"-"	"_"	"_"	"-"	"-"	"-"	"_"	"_"	"_"	"_"	"-"	"_"
[3,]	"Δ"	"C"	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"A"	"G"	"C"	"A"
[4,]		"C"	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"A"	"G"	"C"	"A"
		"C"	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"A"	"G"	"C"	"A"
[5,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[6,]													
			[,2167]			[,2170]	[,2171]		[,2173]		[,2175]		
_ /_	"G"	"C"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"C"
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,]	"G"	"C"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"C"
[4,]	"G"	"C"	"C"	"C"	"G"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"C"
[5,]	"G"	"C"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"C"
[6,]	"_"	"-"	"_"	"_"	"_"	"_"	"_"	"_"	"-"	"_"	"_"	"-"	"-"
-,,	Γ.21787	[,2179]	Γ.21807	[,2181]	[,2182]	[,2183]	[,2184]	Γ.21857	[,2186]	Γ.21877	Γ.21887	[,2189]	Γ.2
[1,]		"G"	"G"	"A"	"T"	"C"	"A"	"C"	"A"	"C"	"A"	"T"	"T"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	'-
				"A"	"T"	"C"	"A"		"T"			"T"	"T"
[3,]	"A"	"G"	"G"		-	-		"C"	-	"C"	"A"	-	-
[4,]	"A"	"G"	"G"	"A"	"T"	"C"	"A"	"C"	"A"	"C"	"A"	"T"	"T"
[5,]		"G"	"G"	"A"	"T"	"C"	"A"	"C"	"A"	"C"	"A"	"T"	"T"
[6,]	"_"	"_"	"_"	"-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"-"
		[,2192]		[,2194]		[,2196]	[,2197]		[,2199]				
[1,]		"T"	"T"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"T"	"G"
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,]	"C"	"T"	"T"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"T"	"G"
[4,]	"C"	"T"	"T"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"T"	"G"
[5,]		"T"	"T"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"T"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
Lo,]													
F4 7		[,2205]			[,2208]	[,2209]	[,2210]		[,2212]		[,2214]		
[1,]		"G"	"A" "_"	"G"	"G" "-"	"C"	"T"	"G"	"G"	"A"	"A"	"T"	"T"
[2,]	"-"	"-"		"-"		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,]	"A"	"G"	"A"	"G"	"G"	"C"	"T"	"G"	"G"	"A"	"A"	"T"	"T"
[4,]	"A"	"G"	"A"	"G"	"G"	"C"	"T"	"G"	"G"	"A"	"A"	"T"	"T"
[5,]	"A"	"G"	"A"	"G"	"G"	"C"	"T"	"G"	"G"	"A"	"A"	"T"	"T"
[6,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
	Γ,22177	[,2218]	[,2219]	[,2220]	[,2221]	[,2222]	[,2223]	Γ,22247	[,2225]	Γ,22267	[,2227]	[,2228]	[,2
[1,]		"A"	"Ć"	"Ć"	"Ć"	"C"	"G"	"Ć"	"T"	"Ť"	"Ġ"	"Á"	"Ć"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"A"	"C"	"C"	"C"	"C"	"G"	"C"	"T"	"T"	"G"	"A"	"C"
			"C"		"C"				-	-			
[4,]	"A"	"A"	-	"C"	-	"C"	"G"	"C"	"T"	"T"	"G"	"A"	"T"
[5,]	"A"	"A"	"C"	"C"	"C"	"C"	"G"	"C"	"T"	"T"	"G"	"A"	"T"
[6,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"_"	"_"	"-"
	[,2230]	[,2231]	[,2232]	[,2233]	[,2234]	[,2235]	[,2236]	[,2237]	[,2238]	[,2239]	[,2240]	[,2241]	[,2
[1,]	"G"	"G"	"A"	"A"	"A"	"A"	"T"	"G"	"T"	"A"	"T"	"C"	"T"
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,]	"G"	"G"	"A"	"A"	"A"	"A"	"T"	"G"	"G"	"A"	"T"	"C"	"T"
[4,]	"G"	"G"	"A"	"A"	"A"	"A"	"T"	"G"	"T"	"A"	"T"	"C"	"T"
[5,]	"G"	"G"	"A"	"A"	"A"	"A"	"T"	"G"	"T"	"A"	"T"	"C"	"T"
[6,]	"-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
۱,۰۰		- [,2244]		- [,2246]		[,2248]	- [,2249]					- [,2254]	
Г1 7			"G"	"A"	"G"		"A"	"G"	"G"	[,2252] "G"		L,2234]	L, 4
[1,]		"A"			"G" "_"	"A"					"A"	"A"	
[2,]		"_"	"_"	"-"		"_"	"_"	"-"	"_"	"_"	"_"		"-"
[3,]	"C"	"A"	"G"	"A"	"G"	"A"	"A"	"A"	"G"	"G"	"A"	"A"	"A"
[4,]		"A"	"G"	"A"	"G"	"A"	"A"	"G"	"G"	"G"	"A"	"A"	"A"
	"C"	"A"	"G"	"A"	"G"	"A"	"A"	"G"	"G"	"G"	"A"	"A"	"A"
	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
_ ,_		[,2257]	[,2258]	[,2259]	[,2260]	[,2261]	[,2262]	Γ,22637	[,2264]	Γ,22657	[,2266]	[,2267]	Γ.2
[1,]		"G"	"C"	"T"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"G"	"G"
[2,]		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	" G "	"G"	"C"	"T"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"G"	"G"
[4,]	"G"	"G"	"C"	"T"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"G"	"G"
[5,]		"G"	"C"	"T"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"G"	"G"
	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
_ ,_	Γ,22697	[,2270]	Γ,22717	[,2272]	Γ,22737	[,2274]	[,2275]	Γ,22767	[,2277]	[,2278]	Γ,22797	[,2280]	Γ.2
[1,]	"A"	"G"	"C"	"C"	"C"	"C"	"A"	"T"	"C"	"T"	"A"	"G"	"G"
,」		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
Г2 Т		- "G"	- "C"	- "C"	- "C"	- "C"	- "A"	- "A"	- "C"	- "C"	- "A"	- "G"	
	" A "			ι.	C .	C	A	A				u	"G"
[3,]					II C II	11.611	II A II	11 T 11	11.611	11 (11	11 A 11	11.611	11 0
[2,] [3,] [4,] [5,]	"A"	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"A" "A"	"T" "T"	"C" "C"	"C" "C"	"A" "A"	"G" "G"	"G" "G"

[6,]		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"
F4 7		[,2283]			[,2286]					[,2291]			[
[1,]		"A"	"G"	"T"	"G"	"A"	"T"	"G"	"G"	"G"	"C"	"C" "-"	
[2,]	"_"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"		
[3,]		"A"	"G"	"T"	"G"	"A"	"T"	"G"	"G"	"G"	"C"	"C"	
[4,]		"A"	"G"	"T"	"G"	"A"	"T"	"G"	"G"	"G"	"C"	"C"	
[5,]		"A"	"G"	"T"	"G"	"A"	"T"	"G"	"G"	"G"	"C"	"C"	
[6,]		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
	[,2295]	[,2296]	[,2297]	[,2298]	[,2299]	[,2300]	[,2301]	[,2302]	[,2303]	[,2304]	[,2305]	[,2306]	
[1,]	"G"	"G"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"T"	"G"	"A"	
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
[3,]	"G"	"G"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"A"	
[4,]	"G"	"G"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"T"	"G"	"A"	
[5,]	"G"	"G"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"T"	"G"	"A"	
[6,]		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	
[°,]	[,2308]		Γ,23107			[,2313]	Г 23147						
[1,]		"C"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"T"	"G"	"A"	
[2,]	"-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	
		- "C"	- "C"	- "C"	- "T"	- "G"	- "C"	- "T"	- "G"	- "T"	- "G"	- "А"	
[3,]					-	-		-		•			
[4,]		"C"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"T"	"G"	"A"	
[5,]		"C"	"C"	"C"	"C"	"G" "_"	"C" "-"	"T" "_"	"G"	"T" "_"	"G"	"A" "_"	
[6,]		"_"	"_"	"_"	"_"				"_"		"_"		
	[,2321]	[,2322]	[,2323]	[,2324]			[,2327]		[,2329]		-, -		
[1,]		"G"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"G"	"G"	"T"	
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
[3,]		"G"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"G"	"G"	"T"	
[4,]		"G"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"G"	"G"	"T"	
[5,]	"A"	"G"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"G"	"G"	"T"	
[6,]		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
	[,2334]	[,2335]	[,2336]	[,2337]	[,2338]	[,2339]	[,2340]	[,2341]	[,2342]	[,2343]	[,2344]	[,2345]	
[1,]		"G"	"A"	"G"	"C"	"C"	"C"	"G"	"G"	"T"	"G"	"A"	
[2,]		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	
[3,]		"G"	"A"	"G"	"C"	"C"	"C"	"G"	"G"	"T"	"G"	"A"	
[4,]	"T"	"G"	"A"	"G"	"C"	"C"	"C"	"G"	"G"	"T"	"G"	"A"	
[5,]	"T"	"G"	"A"	"G"	"C"	"C"	"C"	"G"	"G"	"T"	"G"	"A"	
[6,]		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	
[6,]													
F4 7	[,2347]	[,2348]	[,2349]	[,2350]				[,2354]					
[1,]		"G"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"A"	"G"	
[2,]		"-"	"_"	"_"	"_"	"_"	"-"	"_"	"_"	"_"	"-"	"_"	
[3,]		"G"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"A"	"G"	
[4,]	"G"	"G"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"A"	"G"	
[5,]	"G"	"G"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"A"	"G"	
[6,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
	[,2360]	[,2361]	[,2362]	[,2363]	[,2364]	[,2365]	[,2366]	[,2367]	[,2368]	[,2369]	[,2370]	[,2371]	
[1,]	"G"	"G"	"T"	"T"	"A"	"T"	"C"	"C"	"G"	"G"	"C"	"C"	
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
[3,]	"G"	"G"	"T"	"T"	"A"	"T"	"C"	"C"	"G"	"G"	"C"	"C"	
[4,]	"G"	"G"	"T"	"T"	"A"	"T"	"C"	"C"	"G"	"G"	"C"	"C"	
[5,]	"G"	"G"	"T"	"T"	"A"	"T"	"C"	"T"	"G"	"G"	"C"	"C"	
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	
~,												[,2384]	
[1,]	"C"	"A"	"C"	"T"	"T"	"T"	"C"	"T"	"G"	"G"	"A"	L,2364] "T"	
L [⊥] , ∫		A "-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	
[2,]				"T"	"_" "T"	"T"		"T"				"-" "T"	
[3,]		"A"	"C"	-	-	-	"C"		"G"	"G"	"A"		
[4,]	"C"	"A"	"C"	"T"	"T"	"T"	"C"	"T"	"G"	"G"	"A"	"T"	
[5,]	" ("	"A"	"C"	"T"	"T"	"T"	"C"	"T"	"G"	"G"	"A"	"T"	
[6,]		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	
	[,2386]	[,2387]	[,2388]	[,2389]	[,2390]	[,2391]	[,2392]	[,2393]	[,2394]	[,2395]	[,2396]	[,2397]	
[1,]		"C"	"A"	"G"	"A"	"C"	"T"	"T"	"G"	"A"	"G"	"G"	
[2,]		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
[3,]		"C"	"A"	"G"	"A"	"C"	"T"	"T"	"G"	"A"	"G"	"G"	
[4,]	"A"	"C"	"A"	"G"	"A"	"C"	"T"	"T"	"G"	"A"	"G"	"G"	
[5,]		"C"	"A"	"G"	"A"	"C"	"T"	"T"	"G"	"A"	"G"	"G"	
[6,]		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
	[,2399]	[,2400]	[,2401]	[,2402]	[,2403]	[,2404]	[,2405]	[,2406]	[,2407]	[,2408]	[,2409]	[,2410]	
[1,]		"C"	"T"	"G"	"A"	"G"	"A"	"G"	"C"	"T"	"G"	"A"	
[2,]	"_"	"_"	"_"	"_"	"_"	"-"	"_"	"_"	"_"	"_"	"_"	"_"	
[3,]	"C"	- "C"	- "T"	- "G"	"A"	- "G"	"A"	- "G"	- "C"	- "T"	- "G"	"A"	
[4,]	"T"	"C"	"T"	"G"	"A"	"G"	"A"	"G"	"C"	"T"	"G"	"A"	
		"C"	"T"	"G"		"G"		"G"		"T"			
[5,]					"A"		"A"		"C"	-	"G"	"A"	
[6,]		"_"	"_"	"_"	"_" F_244.67	"_"	"_"	"_"	"_"	"_"	"_"	"_"	
F	[,2412]	[,2413]	[,2414]	[,2415]	[,2416]	[,2417]	[,2418]	[,2419]	[,2420]	[,2421]	[,2422]	[,2423]	
117	"A"	"A"	"C"	"A"	"C"	"T"	"T"	"G"	"T"	"C"	"C"	"A"	
	a n	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	
[2,]			11.611	"A"	"C"	"T"	"T"	"G"	"T"	"C"	"C"	"A"	
	"A"	"A" "A"	"C" "C"	"A"	"C"	"T"	"T"	"G"	"T"	"C"	"C"	"A"	

[5,] "A" [6.] "-"	"A" "-"	"C" "-"	"A" "_"	"C" "_"	"T" "_"	"T" "_"	"G" "-"	"T" "_"	"C" "_"	"C" "_"	"A" "_"	"A"
		- [,2427]	- [,2428]	- [,2429]			- [,2432]		- [,2434]		- [,2436]	
[1,] "G"	"G"	"T"	"C"	"Ť"	"Ć"	"A"	"C"	"G"	"Ť"	"T"	"A"	"A"
[2,] "-"	"_"	"_"	"_"	"_" "T"	"_"	"_"	"_"	"_"	"_" "T"	"-" "T"	"_"	"_"
[3,] "G" [4,] "G"	"G" "G"	"T" "T"	"C" "C"	"T" "T"	"C" "C"	"A" "A"	"C" "C"	"G" "G"	"T" "T"	"T"	"A" "A"	"A" "A"
[5,] "G"	"G"	"T"	"C"	"T"	"C"	"A"	"C"	"G"	"T"	"T"	"A"	"A"
[6,] "-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
		[,2440]	[,2441]	[,2442]			[,2445]		[,2447]	[,2448]	[,2449]	
[1,] "G" [2,] "-"	"G" "-"	"T" "_"	"C" "-"	"A" "-"	"A" "-"	"G" "-"	"A" "-"	"C" "-"	"A" "_"	"C" "-"	"T" "-"	"A" "_"
[3,] "G"	- "G"	- "T"	- "C"	"A"	"A"	- "G"	"A"	- "C"	"A"	- "C"	- "T"	- "A"
[4,] "G"	"G"	"T"	"C"	"A"	"A"	"G"	"A"	"C"	"A"	"C"	"T"	"A"
[5,] "G"	"G"	"T"	"C"	"A"	"A"	"G"	"A"	"C"	"A"	"C"	"T"	"A"
[6,] "-"	"-" F 24527	"-" [,2453]	"-" [,2454]	"-" [,2455]	"_" F 24567	"-" [,2457]	"-" [,2458]	"-" [,2459]	"-" [,2460]	"-" [,2461]	"-" [,2462]	"-" F 24637
[1,] "A"	"C"	"T"	"C"	"A"	"A"	"A"	"T"	"C"	"T"	"T"	"T"	"C"
[2,] "-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,] "A"	"C"	"T"	"C"	"A"	"A"	"A"	"T"	"C"	"T"	"T"	"T"	"C"
[4,] "A" [5,] "A"	"C" "C"	"T" "T"	"C" "C"	"A" "A"	"A" "A"	"A" "A"	"T" "T"	"C" "C"	"T" "T"	"T" "T"	"T" "T"	"C" "C"
[6,] "-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
-, -		[,2466]	[,2467]	[,2468]		[,2470]	[,2471]	[,2472]	[,2473]	[,2474]	[,2475]	
[1,] "A"	"A" "-"	"G" "-"	"C" "-"	"C" "-"	"C" "-"	"C" "_"	"G" "-"	"C" "-"	"C" "-"	"T" "_"	"C" "-"	"T" "_"
[2,] "-" [3,] "A"	"A"	"-"	"C"	"C"	"_" "C"	"_" "C"	"G"	"C"	"_" "C"	"T"	"_" "C"	"T"
[4,] "A"	"A"	"G"	"C"	"C"	"C"	"T"	"G"	"C"	"C"	"T"	"C"	"T"
[5,] "A"	"A"	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"C"	"T"	"C"	"T"
[6,] "-"	"_"	"_" F_24707	"_" F_24007	"_"	"_" F_24027	"_"	"_" F_24047	"_" F_240F7	"_"	"_" F_24077	"_" F_24007	"_"
[,24//] [1,] "C"	[,2478] "C"	[,2479] "T"	[,2480] "C"	[,2481] "T"	[,2482] "T"	[,2483] "G"	[,2484] "G"	[,2485] "A"	[,2486] "G"	[,2487] "G"	[,2488] "A"	[,2489] "C"
[2,] "-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"_"
[3,] "C"	"C"	"A"	"C"	"T"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"C"
[4,] "C" [5.] "C"	"C" "C"	"T" "T"	"C" "C"	"T" "T"	"T" "T"	"G" "G"	"G" "G"	"A" "A"	"G" "G"	"G" "G"	"A" "A"	"C" "C"
[5,] "C" [6,] "-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[,2490]	[,2491]	[,2492]	[,2493]	[,2494]	[,2495]	[,2496]	[,2497]	[,2498]	[,2499]	[,2500]	[,2501]	[,2502]
[1,] "A"	"G"	"G"	"G"	"C"	"A"	"G"	"C"	"C"	"T"	"G"	"C"	"A"
[2,] "-" Γ3.] "A"	"-" "G"	"-" "G"	"-" "G"	"-" "C"	"_" "A"	"-" "G"	"-" "C"	"-" "C"	"-" "T"	"-" "G"	"-" "C"	"_" "A"
[3,] "A" [4,] "A"	"G"	"G"	"G"	"C"	"A"	"G"	"C"	"C"	"T"	"G"	"C"	"A"
[5,] "A"	"G"	"G"	"G"	"C"	"A"	"G"	"C"	"C"	"T"	"G"	"C"	"A"
[6,] "-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[,2503] [1,] "G"	[,2504] "C"	[,2505] "T"	[,2506] "G"	[,2507] "T"	[,2508] "G"	[,2509] "T"	[,2510] "C"	[,2511] "C"	[,2512] "A"	[,2513] "G"	[,2514] "G"	[,2515] "C"
[1,] "G" [2,] "-"	"_"	"_"	"_"	"_"	"_"	"_"	"-"	"_"	"_"	"_"	"_"	"_"
[3,] "G"	"C"	"T"	"G"	"T"	"G"	"T"	"C"	"C"	"A"	"G"	"G"	"C"
[4,] "G"	"C"	"T"	"G"	"T"	"G"	"T"	"C"	"C"	"A"	"G"	"G"	"C"
[5,] "G" [6.] "-"	"C" "_"	"T" "_"	"G" "-"	"T" "_"	"G" "-"	"T" "-"	"C" "-"	"C" "-"	"A" "_"	"G" "-"	"G" "-"	"C" "-"
[6,] "-" [,2516]				_ [,2520]							_ [,2527]	
[1,] "C"	"C"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"-"	"A"	"C"	"C"
[2,] "-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"-"	"_"	"_"	"_"
[3,] "C" [4,] "C"	"C" "C"	"A" "A"	"G" "G"	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"A" "-"	"A" "A"	"C" "C"	"C" "C"
[5,] "C"	"C"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"_"	"A"	"C"	"C"
[6,] "-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[,2529]		[,2531]	[,2532] "T"	[,2533]		[,2535]		[,2537]	[,2538]	[,2539] "T"	[,2540]	
[1,] "C" [2,] "-"	"C" "-"	"A" "-"	" "	"A" "-"	"A" "_"	"C" "_"	"A" "-"	"G" "_"	"G" "-"	" "	"G" "_"	"G" "_"
[3,] "C"	"C"	"A"	"T"	"A"	"A"	"C"	"A"	"G"	"G"	"T"	"G"	"G"
[4,] "C"	"C"	"A"	"T"	"A"	"A"	"C"	"A"	"G"	"G"	"T"	"G"	"G"
[5,] "C"	"C"	"A" "-"	"T" "_"	"A" "-"	"A" "_"	"C" "_"	"A" "-"	"G" "_"	"G" "-"	"T" "_"	"G" "_"	"G" " "
[6,] "-" [,2542]	"-" [,2543]		[,2545]	[,2546]	[,2547]	[,2548]	[,2549]	[,2550]	[,2551]	[,2552]	[,2553]	"-" [,2554]
[1,] "C"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"A"	"C"	"A"	"C"	"A"
[2,] "-"	"-"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,] "C"	"C"	"T" "T"	"C" "C"	"A"	"G"	"C"	"C" "C"	"A" "A"	"C"	"A" "A"	"T"	"A"
[4,] "C" [5,] "C"	"C" "C"	"T"	"C"	"A" "A"	"G" "G"	"C" "C"	"C"	"A"	"C" "C"	"A"	"C" "C"	"A" "A"
[6,] "-"	"_"	"_"	"-"	"-"	"-"	"-"	"-"	"_"	"-"	"_"	"-"	"_"
[,2555]	[,2556]		[,2558]	[,2559]	[,2560]	[,2561]	[,2562]	[,2563]	[,2564]	[,2565]	[,2566]	
[1,] "G" [2.] "-"	"T" "-"	"T" "_"	"C" "_"	"T" "-"	"C" "_"	"C" "_"	"C" "-"	"C" "_"	"A" "_"	"A" "-"	"G" "_"	"G" "_"
[2,] "-" [3,] "G"	"T"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"A"	"A"	"G"	"G"

[4,] "G" [5,] "G"		"T" "T"	"T" "T"	"C" "C"	"T" "T"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"A" "A"	"A" "A"	"G" "G"	"G" "G"
[6,] "-"		"-" [,2569]	"-" [,2570]	"-" [,2571]	"-" [,2572]	"_" [,2573]	"-" [,2574]	"-" [,2575]	"-" [,2576]	"-" [,2577]	"-" [,2578]	"-" [,2579]	"-" [,2580]
[1,] "G" [2,] "-"	_	"G" "-"	"A"	"G" "-"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"G" "-"
[3,] "G"		"G"	"A"	"G"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"G"
[4,] "G"		"G"	"A"	"G"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"G"
[5,] "G" [6.] "-"		"G" "-"	"A" "-"	"G" "-"	"C" "-"	"A" "-"	"G" "-"	"C" "-"	"C" "-"	"C" "-"	"A" "-"	"G" "-"	"G" "-"
L-,J			[,2583]	[,2584]	[,2585]	[,2586]	[,2587]	[,2588]	[,2589]	[,2590]	[,2591]		[,2593]
[1,] "G"		"C"	"C"	"A"	"A"	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"T"
[2,] "-"		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,] "G"		"C"	"C"	"A"	"A"	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"T"
[4,] "G" [5,] "G"		"C" "C"	"C" "C"	"A" "A"	"A" "A"	"G" "G"	"C" "C"	"C" "C"	"C" "C"	"C" "C"	"G" "G"	"C" "C"	"T" "T"
[6,] "-"		"-"	"_"	"-"	"-"	"_"	"-"	"-"	"-"	"-"	"-"	"-"	"_"
	594]	[,2595]	[,2596]	[,2597]	[,2598]	[,2599]	[,2600]	[,2601]	[,2602]	[,2603]	[,2604]	[,2605]	[,2606]
[1,] "G"		"C"	"C"	"T"	"T"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[2,] "-" [3,] "G"		"-" "C"	"-" "C"	"-" "T"	"-" "T"	"-" "C"	"_" "C"	"-" "C"	"-" "C"	"_" "A"	"-" "G"	"-" "G"	"_" "C"
[3,] "G" [4,] "G"		"C"	"C"	"T"	"T"	"C"	"C"	"C"	"C"	Α "Δ"	"G"	"G"	"C"
[5,] "G"		"C"	"C"	"T"	"T"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[6,] "-"		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
			[,2609]	[,2610]	[,2611]	[,2612] "T"		[,2614]	[,2615]	[,2616] "T"	[,2617]	[,2618]	-, -
[1,] "C" [2,] "-"		"A" "-"	"C" "_"	"A" "-"	"G" "-"	"_"	"G" "-"	"C" "-"	"G" "_"	"_"	"C" "-"	"C" "_"	"A" "_"
[3,] "C"		"A"	"C"	"A"	"G"	"T"	"G"	"C"	"G"	"T"	"C"	"C"	"A"
[4,] "C"		"A"	"C"	"A"	"G"	"T"	"G"	"C"	"G"	"T"	"C"	"C"	"A"
[5,] "C" [6.] "-"		"A" "_"	"C" "-"	"A" "-"	"G" "-"	"T" "-"	"G" "-"	"C" "-"	"G" "-"	"T" "-"	"C" "-"	"C" "-"	"A" "_"
L-,J			[,2622]	[,2623]	[,2624]	[,2625]		[,2627]		[,2629]	[,2630]	[,2631]	
[1,] "G"		"T"	"C"	"T"	"C"	"C"	"T"	"G"	"T"	"C"	"C"	"T"	"G"
[2,] "-"		"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,] "G"		"T"	"C"	"T"	"C"	"C"	"T"	"G"	"T"	"C"	"C"	"T"	"G"
[4,] "G" [5,] "G"		"T" "T"	"G" "G"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"G" "G"	"T" "T"	"C" "C"	"C" "C"	"T" "T"	"G" "G"
[6,] "-"		"_"	"_"	"_"	"_"	"_"	"_"	"-"	"_"	"_"	"-"	"_"	"_"
	_	-, -	[,2635]		[,2637]		[,2639]		[,2641]	-, -	[,2643]	[,2644]	-, -
[1,] "C"		"C"	"A"	"C"	"G"	"T"	"G"	"T"	"C"	"T"	"T"	"T"	"T"
[2,] "-" [3,] "C"		"-" "C"	"-" "A"	"-" "C"	"-" "G"	"-" "T"	"-" "G"	"-" "T"	"-" "C"	"-" "T"	"-" "C"	"-" "T"	"-" "T"
[4,] "C"		"C"	"A"	"C"	"G"	"T"	"G"	"T"	"C"	"T"	"C"	"T"	"T"
[5,] "C"		"C"	"A"	"C"	"G"	"T"	"G"	"T"	"C"	"T"	"C"	"T"	"T"
[6,] "-"		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[,20 [1,] "G"		[,2647] "C"	[,2648] "A"	[,2649] "A"	[,2650] "A"	[,2651] "G"	[,2652] "C"	[,2653] "T"	[,2654] "C"	[,2655] "C"	[,2656] "T"	[,2657] "T"	[,2658] "G"
[2,] "-"		"-"	"_"	"-"	"_"	"_"	"_"	"_"	"-"	"_"	"_"	"_"	"_"
[3,] "G"		"C"	"A"	"A"	"A"	"G"	"C"	"T"	"C"	"C"	"T"	"T"	"G"
[4,] "G"		"C"	"A"	"A"	"A"	"G"	"C"	"T"	"C"	"C"	"T"	"T"	"G"
[5,] "G" [6,] "-"		"C" "-"	"A" "_"	"A" "_"	"A" "-"	"G" "_"	"C" "-"	"T" "-"	"C" "-"	"C" "-"	"T" "-"	"T" "_"	"G" "-"
						[,2664]							
[1,] "G"		"A"	"T"	"G"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"A"	"G"
[2,] "-" [3.] "G"		"_" "A"	"-" "T"	"-" "G"	"-" "T"	"-" "G"	"-" "G"	"_" "A"	"-" "G"	"_" "A"	"-" "C"	"_" "A"	"_" "G"
[3,] "G" [4,] "G"		"A"	"T"	"G"	"T"	"G"	"G"	"A"	"C"	"A"	"C"	"A"	"G"
[5,] "G"		"A"	"T"	"G"	"T"	"G"	"G"	"A"	"C"	"A"	"C"	"A"	"G"
[6,] "-"		"-"	"-"	"-"	"-"	"-"	"_"	"_"	"-"	"_"	"_"	"-"	"_"
[,20 [1,] "A"		[,2673] "T"	[,2674] "G"	[,2675] "T"	[,2676] "C"	[,2677] "T"	[,2678] "T"	[,2679] "T"	[,2680] "A"	[,2681] "C"	[,2682] "T"	[,2683] "A"	[,2684] "G"
[2,] A		"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,] "A"		"T"	"G"	"T"	"-"	"-"	"C"	"T"	"A"	"C"	"T"	"A"	"G"
[4,] "A"		"T"	"G"	"T"	"C"	"T"	"T"	"T"	"A"	"C"	"T"	"A"	"G"
[5,] "A" [6.] "-"		"T" "_"	"G" "_"	"T" "-"	"C" "-"	"T" "-"	"T" "-"	"T" "-"	"A" "-"	"C" "-"	"T" "-"	"A" "-"	"G" "_"
L-,J			[,2687]		[,2689]		[,2691]			[,2694]		[,2696]	
_, _ \		"G"	"C"	"T"	"G"	"A"	"A"	"A"	"G"	"G"	"C"	"C"	"C"
[1,] "A"		•				"_"	"-"	"-"	"-"	"_"	"-"	"_"	"-"
[2,] "-"		"-"	"_"	"-"	"_"								
[2,] "-" [3,] "A"		"-" "G"	"C"	"T"	"G"	"A"	"A"	"A"	"G"	"G"	"C"	"C"	"C"
[2,] "-" [3,] "A" [4,] "A"	,	"-" "G" "G"	"C" "C"	"T" "T"	"G" "G"	"A"	"A"	"A"	"G"	"G"	"C"	"C"	"C"
[2,] "-" [3,] "A"	,	"-" "G"	"C"	"T"	"G"						-		
[2,] "-" [3,] "A" [4,] "A" [5,] "A" [6,] "-"	598]	"_" "G" "G" "G" "-" [,2699]	"C" "C" "-" [,2700]	"T" "T" "-" [,2701]	"G" "G" "-" [,2702]	"A" "A" "-" [,2703]	"A" "A" "-" [,2704]	"A" "A" "-" [,2705]	"G" "G" "-" [,2706]	"G" "G" "-" [,2707]	"C" "C" "-" [,2708]	"C" "C" "-" [,2709]	"C" "C" "-" [,2710]
[2,] "-" [3,] "A" [4,] "A" [5,] "A" [6,] "-"	598]	"-" "G" "G" "-"	"C" "C" "-"	"T" "T" "T"	"G" "G" "G" "-"	"A" "A" "-"	"A" "A" "-"	"A" "A" "-"	"G" "G" "-"	"G" "G" "-"	"C" "C" "-"	"C" "C" "-"	"C" "C" "-"

	"C"	"C"	"T"	"C"	"A"	"A"	"C"	"A"	"C"	"A"	"T"	"C"	"C"
[4,]	"C"	"C"	"T"	"C"	"G"	"A"	"C"	"A"	"C"	"A"	"T"	"C"	"C"
[5,]	"C"	"C"	"T"	"C"	"G"	"A"	"C"	"A"	"C"	"A"	"T"	"C"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[°,]	[,2711]	[,2712]			[,2715]	[,2716]	[,2717]	[,2718]	Г 27197	[,2720]	[,2721]	[,2722]	[,2723]
[1,]		"G"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"C"	"C"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"G"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"C"	"C"	"C"
[4,]	"A"	"G"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"C"	"C"	"C"
[5,]	"A"	"G"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"C"	"C"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[0,]	- [,2724]				- [,2728]						- [,2734]	_ [,2735]	- [,2736]
Г1,7		[,2725] "T"	"G"	[,2727] "G"	"A"	[,2729] "A"	[,2730] "T"	[,2731] "A"	[,2732] "G"	[,2733] "G"	L,2734]	"A"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
- /-	- "A"	- "C"	- "G"	- "G"	- "G"	- "A"	- "T"	- "A"	- "G"	- "G"	- "T"	- "A"	- "G"
[3,]	"A"	"T"	"G"	"G"	''Δ"	"A"	"T"	Α "Δ"	"G"	"G"	"T"	Α "Δ"	"G"
[4,]		"T"	"G"				"T"	"A"		"G"	"T"		
[5,]	"A" "-"	"_"	"_"	"G" "-"	"A" "-"	"A" "_"	"_"	A "_"	"G" "-"	"_"	"_"	"A" "_"	"G" "-"
[6,]													
F4 7	[,2737] "G"	[,2/36] "C"	[,2739] "A"	[,2740] "A"	[,2741] "G"	[,2742] "C"	[,2743] "C"	[,2744] "A"	[,2/45] "G"	[,2746] "G"	[,2747] "A"	[,2748] "C"	[,2749] "T"
[1,]	"_"	"_"	A "_"	A "_"	"_"	"_"	"_"	A "_"	"_"	"_"	A "_"	"_"	"_"
[2,]			- "A"				- "C"	- "A"				- "C"	- "T"
[3,]	"G"	"C"		"A"	"G"	"C"	-		"G"	"G"	"A"	-	-
[4,]	"G"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"	"G"	"A"	"C"	"T"
[5,]	"G"	"C"	"A" "-"	"A"	"G"	"C"	"C"	"A" "-"	"G"	"G"	"A" "_"	"C"	"T"
[6,]	"_"	"_"		"_"	"_"	"_"	"_"		"_"	"_"		"_"	"_"
F4 7	[,2750]	[,2751]		[,2753]	[,2754]	[,2755]	[,2756]	[,2757]	[,2758]	[,2759]	[,2760]	[,2761]	[,2762] "T"
[1,]	"C"	"C" "-"	"G" "-"	"G" "-"	"G" "-"	"A" "-"	"A" "-"	"G" "-"	"G" "-"	"A" "_"	"G" "-"	"G" "-"	-
[2,]	"_"												"_"
[3,]	"C"	"C"	"G"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"G"	"G"	"T"
[4,]	"C"	"C"	"G"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"G"	"G"	"T"
[5,]	"C"	"C"	"G"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"G"	"G"	"T"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2763]	[,2764]	_, _	[,2766]		[,2768]	[,2769]	[,2770]		[,2772]	[,2773]	[,2774]	[,2775]
_ ,_	"G"	"C"	"A"	"G"	"C"	"C"	"A"	"G"	"G"	"A"	"T"	"G"	"C"
[2,]	"_"	"-"	"-"	"_"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,]	"G"	"C"	"A"	"G"	"C"	"C"	"A"	"G"	"G"	"A"	"T"	"G"	"C"
[4,]	"G"	"C"	"A"	"G"	"C"	"C"	"A"	"G"	"G"	"A"	"T"	"G"	"C"
[5,]	"G"	"C"	"A"	"G"	"C"	"C"	"A"	"G"	"G"	"A"	"T"	"G"	"C"
[6,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
		[,2777]			[,2780]		[,2782]	[,2783]		[,2785]	[,2786]	[,2787]	
[1,]	"T"	"C"	"T"	"G"	"G"	"T"	"G"	"G"	"A"	"G"	"C"	"T"	"G"
[2,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
[3,]	"T"	"C"	"T"	"G"	"G"	"T"	"G"	"G"	"A"	"G"	"C"	"T"	"G"
[4,]	"T"	"C"	"T"	"G"	"G"	"T"	"G"	"G"	"A"	"G"	"C"	"T"	"G"
[5,]	"T"	"C"	"T"	"G"	"G"	"T"	"G"	"G"	"A"	"G"	"C"	"T"	"G"
[6,]	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"	"-"
	[,2789]	F 27007		F 27027	[,2793]	[,2794]	[,2795]	[,2796]	[,2797]	[,2798]	[,2799]	Γ,28007	[,2801]
[1,]		[,2790]	[,2791]	[,2792]									
[2,]	"C"	[,2/90] "C"	[,2791] "G"	[,2792] "A"	"T"	"G"	"G"	"G"	"G"	"C"	"C"	"Ć"	"T"
_ ,_	"C" "-"					"G" "-"	"G" "-"	"G" "-"	"G" "-"	"C" "-"	"C" "-"		"T" "-"
[3,]	"_" "C"	"C" "-" "C"	"G" "-" "G"	"A" "-" "A"	"T" "-" "T"	"-" "G"	"-" "G"	"-" "G"	"-" "G"	"-" "C"	"-" "C"	"C" "-" "C"	
[3,] [4,]	"-" "C" "C"	"C" "-"	"G" "-"	"A" "-"	"T" "-"	"-"	"-"	"-"	"-"	"-"	"-"	"C" "-"	"-"
[3,] [4,] [5,]	"-" "C" "C"	"C" "-" "C" "C"	"G" "-" "G" "G"	"A" "A" "A" "A"	"T" "-" "T" "T"	"-" "G" "G"	"-" "G" "G"	"_" "G" "G"	"-" "G" "G"	"-" "C" "C"	"-" "C" "C"	"C" "C" "C" "C"	"-" "T" "T" "T"
[3,] [4,]	"_" "C" "C" "-"	"C" "C" "C" "C" "C"	"G" "G" "G" "G"	"A" "A" "A" "A" "A"	"T" "-" "T" "T" "T"	"-" "G" "G" "-"	"-" "G" "G" "-"	"-" "G" "G" "-"	"-" "G" "G" "-"	"_" "C" "C" "-"	"-" "C" "C" "-"	"C" "C" "C" "C" "C"	"-" "T" "T" "T"
[3,] [4,] [5,] [6,]	"_" "C" "C" "-" [,2802]	"C" "-" "C" "C" "-" [,2803]	"G" "G" "G" "G" "-" [,2804]	"A" "A" "A" "A" "-" [,2805]	"T" "-" "T" "T" "-" [,2806]	"_" "G" "G" "-" [,2807]	"_" "G" "G" "-" [,2808]	"_" "G" "G" "-" [,2809]	"_" "G" "G" "-" [,2810]	"_" "C" "C" "-" [,2811]	"_" "C" "C" "-" [,2812]	"C" "-" "C" "C" "-" [,2813]	"_" "T" "T" "-" [,2814]
[3,] [4,] [5,] [6,]	"_" "C" "C" "-" [,2802] "G"	"C" "C" "C" "C" "-" [,2803]	"G" "-" "G" "G" "-" [,2804]	"A" "A" "A" "A" "-" [,2805] "G"	"T" "-" "T" "T" "T" "-" [,2806]	"_" "G" "G" "-" [,2807] "C"	"_" "G" "G" "-" [,2808] "A"	"_" "G" "G" "-" [,2809] "G"	"_" "G" "G" "-" [,2810] "A"	"_" "C" "C" "-" [,2811] "A"	"_" "C" "C" "-" [,2812] "C"	"C" "C" "C" "C" "-" [,2813]	"-" "T" "T" "-" [,2814] "C"
[3,] [4,] [5,] [6,] [1,] [2,]	"_" "C" "C" "_" [,2802] "G" "_"	"C" "-" "C" "C" "-" [,2803] "G"	"G" "G" "G" "G" "-" [,2804] "T" "-"	"A" "A" "A" "A" "A" "-" [,2805] "G" "-"	"T" "-" "T" "T" "-" [,2806] "T"	"_" "G" "G" "-" [,2807] "C" "-"	"_" "G" "G" "-" [,2808] "A" "_"	"_" "G" "G" "-" [,2809] "G" "-"	"_" "G" "G" "-" [,2810] "A" "-"	"_" "C" "C" "-" [,2811] "A" "-"	"_" "C" "C" "-" [,2812] "C" "-"	"C" "-" "C" "C" "-" [,2813] "T"	"_" "T" "T" "-" [,2814] "C" "-"
[3,] [4,] [5,] [6,] [1,] [2,]	"_" "C" "C" "-" [,2802] "G"	"C" "C" "C" "C" "-" [,2803]	"G" "-" "G" "G" "-" [,2804]	"A" "A" "A" "A" "-" [,2805] "G"	"T" "-" "T" "T" "T" "-" [,2806]	"_" "G" "G" "-" [,2807] "C"	"_" "G" "G" "-" [,2808] "A" "-" "A"	"_" "G" "G" "-" [,2809] "G"	"_" "G" "G" "-" [,2810] "A"	"_" "C" "C" "-" [,2811] "A"	"_" "C" "C" "-" [,2812] "C"	"C" "-" "C" "C" "-" [,2813] "T" "-" "T"	"-" "T" "T" "-" [,2814] "C"
[3,] [4,] [5,] [6,] [1,] [2,]	"_" "C" "C" "_" [,2802] "G" "_"	"C" "-" "C" "C" "-" [,2803] "G"	"G" "G" "G" "G" "-" [,2804] "T" "-"	"A" "A" "A" "A" "A" "-" [,2805] "G" "-"	"T" "-" "T" "T" "-" [,2806] "T"	"_" "G" "G" "-" [,2807] "C" "-"	"_" "G" "G" "-" [,2808] "A" "_"	"_" "G" "G" "-" [,2809] "G" "-"	"_" "G" "G" "-" [,2810] "A" "-"	"_" "C" "C" "-" [,2811] "A" "-"	"_" "C" "C" "-" [,2812] "C" "-"	"C" "-" "C" "C" "-" [,2813] "T"	"_" "T" "T" "-" [,2814] "C" "-"
[3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,]	"_" "C" "C" "C" "-" [,2802] "G" "-" "G"	"C" "-" "C" "C" "-" [,2803] "G" "-"	"G" "G" "G" "G" "-" [,2804] "T" "-" "T"	"A" "A" "A" "A" "-" [,2805] "G" "-"	"T" "-" "T" "T" "-" [,2806] "T" "-" "T" "T" "T"	"_" "G" "G" "-" [,2807] "C" "-"	"-" "G" "G" "-" [,2808] "A" "-" "A" "A"	"_" "G" "G" "-" [,2809] "G" "-"	"_" "G" "G" "-" [,2810] "A" "-" "A"	"-" "C" "C" "-" [,2811] "A" "-" "A" "A" "A"	"_" "C" "C" ",2812] "C" "_"	"C" "-" "C" "C" "-" [,2813] "T" "-" "T"	"-" "T" "T" "-" [,2814] "C" "-"
[3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,]	"_" "C" "C" "-" [,2802] "G" "-" "G" "G" "G"	"C" "C" "C" "C" "-" [,2803] "G" "-" "G" "G"	"G" "G" "G" "G" "-" [,2804] "T" "-" "T"	"A" "A" "A" "A" "-" [,2805] "G" "-" "G" "G"	"T" "-" "T" "T" "-" [,2806] "T" "-" "T"	"_" "G" "G" "-" [,2807] "C" "-" "C"	"_" "G" "G" "-" [,2808] "A" "-" "A" "A"	"_" "G" "G" ",2809] "G" "-" "G" "G"	"_" "G" "G" "-" [,2810] "A" "-" "A" "A"	"_" "C" "C" "-" [,2811] "A" "-" "A" "A"	"_" "C" "C" [,2812] "C" "_" "C" "C"	"C" "-" "C" "C" "C" "-" [,2813] "T" "-" "T"	"-" "T" "T" "-" [,2814] "C" "-" "C" "C"
[3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,]	"_" "C" "C" "-" [,2802] "G" "-" "G" "G" "G" "G"	"C" "-" "C" "C" "-" [,2803] "G" "-" "G" "G" "G"	"G" "-" "G" "G" "-" [,2804] "T" "-" "T" "T" "T" "T"	"A" "A" "A" "A" "-" [,2805] "G" "-" "G" "G" "G" "G"	"T" "-" "T" "-" [,2806] "T" "-" "T" "T" "T" "T"	"-" "G" "G" "-" [,2807] "C" "-" "C" "C" "C" "C"	"-" "G" "G" "-" [,2808] "A" "-" "A" "A"	"-" "G" "G" "-" [,2809] "G" "-" "G" "G" "G"	"-" "G" "G" "-" [,2810] "A" "-" "A" "A" "A" "A"	"-" "C" "C" "-" [,2811] "A" "-" "A" "A" "A"	"-" "C" "C" [,2812] "C" "-" "C" "C" "C" "C" "C"	"C" "-" "C" "C" "C" "-" [,2813] "T" "-" "T" "T"	"-" "T" "T" ",2814] "C" "-" "C" "C" "C"
[3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,]	"_" "C" "C" "C" ",2802] "G" "-" "G" "G" "G" "G" "G" ",2815]	"C" "-" "C" "C" "C" "-" [,2803] "G" "-" "G" "G" "G"	"G" "-" "G" "G" "-" [,2804] "T" "-" "T" "T" "T" "T"	"A" "A" "A" "A" "-" [,2805] "G" "-" "G" "G" "G" "G"	"T" "-" "T" "-" [,2806] "T" "-" "T" "T" "T" "T"	"-" "G" "G" "-" [,2807] "C" "-" "C" "C" "C" "C"	"-" "G" "G" "-" [,2808] "A" "-" "A" "A" "A" "A"	"-" "G" "G" "-" [,2809] "G" "-" "G" "G" "G"	"-" "G" "G" "-" [,2810] "A" "-" "A" "A" "A" "A"	"-" "C" "C" "-" [,2811] "A" "-" "A" "A" "A" "A"	"-" "C" "C" [,2812] "C" "-" "C" "C" "C" "C" "C"	"C" "-" "C" "C" "C" "-" [,2813] "T" "T" "T" "T" "T"	"-" "T" "T" ",2814] "C" "-" "C" "C" "C"
[3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,]	"_" "C" "C" "C" ",2802] "G" "-" "G" "G" "G" "G" "G" ",2815]	"C" "C" "C" "C" ",2803] "G" "G" "G" "G" "G" "G" "G" "G"	"G" "G" ",2804] "T" "T" "T" "T" "T" "T" "T" ",2817]	"A" "A" "A" ",2805] "G" "-" "G" "G" "G" ",2818]	"T" "T" "T" [,2806] "T" "T" "T" "T" "T" "T" "T" "T" "T" ",2819]	"_" "G" "G" "_" [,2807] "C" "C" "C" "C" "C" "C" ",2820]	"_" "G" "G" "_" [,2808] "A" "-" "A" "A" "A" "-" [,2821]	"_" "G" "G" [,2809] "G" "-" "G" "G" "G" "G" "G" "G"	"_" "G" "G" ",2810] "A" "-" "A" "A" "A" "-" [,2823]	"_" "C" "C" "C" [,2811] "A" "-" "A" "A" "A" "-" [,2824]	"_" "C" ",2812] "C" "-" "C" "C" "C" "C" "C" "C" "C" ",2825]	"C" "C" "C" "C" ",2813] "T" "," "T" "T" "T" "," ",2826]	"-" "T" "T" ",2814] "C" "-" "C" "C" "C" "C" ",2827]
[3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"_" "C" "C" "-" [,2802] "G" "G" "G" "G" "G" "G" "C" "-"	"C" "C" "C" "C" ",2803] "G" "-" "G" "G" "G" "G" "G" "C"	"G" "-" "G" "-" [,2804] "T" "-" "T" "T" "T" "T" "-" [,2817]	"A" "A" "A" "A" "-" [,2805] "G" "-" "G" "G" "G" "-" [,2818]	"T" "T" "T" ",2806] "T" ",2806] "T" "," "T" "," "," "," "," "," "," ","	"_" "G" "G" "_" [,2807] "C" "C" "C" "C" "C" "C" ",2820]	"_" "G" "G" ",2808] "A" "-" "A" "A" "A" "A" "A" "A" "G" "G" "G"	"-" "G" ",2809] "G" "-" "G" "G" "G" "G" "G" "G" "G" "G"	"_" "G" "G" "_" [,2810] "A" "_" "A" "A" "A" "_" [,2823]	"_" "C" "C" [,2811] "A" "A" "A" "A" "A" "C" [,2824]	"_" "C" "C" [,2812] "C" "-" "C" "C" "C" "C" "C" "T"	"C" "C" "C" "C" ",2813] "T" "-" "T" "T" "T" "T" "T" "T" "T" "T"	"-" "T" "T" "-" [,2814] "C" "-" "C" "C" "C" "C" "T"
[3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,]	"_" "C" "C" "-" [,2802] "G" "G" "G" "G" "G" "G" "C" "-"	"C" "C" "C" "C" [,2803] "G" "-" "G" "G" "G" "C" "-" [,2816]	"G" "G" "G" "G" "-" [,2804] "T" "-" "T" "T" "T" "T" "T" "-" [,2817]	"A" "A" "A" "A" ",2805] "G" "-" "G" "G" "G" "-" [,2818] "A" "-"	"T" "T" ",2806] "T" ",2806] "T" "," "T" "," "T" "," "," ",2819]	"_" "G" "G" "C" "C" "C" "C" "C" "C" "A" "-"	"_" "G" "G" ",2808] "A" "-" "A" "A" "A" "A" "A" "G" "G" ",2821]	"_" "G" "G" "G" "G" "G" "G" "G" "G" "G"	"_" "G" "G" ",2810] "A" "-" "A" "A" "A" "A" "A" "C" "."	"_" "C" "C" ",2811] "A" "A" "A" "A" "A" "A" "C" ",2824]	"_" "C" "C" "C" "C" "C" "C" "C" "C" "C"	"C" "C" "C" "C" [,2813] "T" "-" "T" "T" "T" "T" "T" "-" [,2826] "G" "-"	"-" "T" "T" "-" [,2814] "C" "-" "C" "C" "-" "C" "-" "-" "-" "-"
[3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,] [5,] [6,] [1,] [2,] [3,] [4,]	"_" "C" "C" ",2802] "G" "G" "G" "G" "G" "G" "G" "G" "C" "C"	"C" "C" "C" ",2803] "G" "G" "G" "G" "G" "C" ",2816]	"G" "G" "G" "G" "-" [,2804] "T" "T" "T" "T" "C" "C"	"A" "A" "A" "A" ",2805] "G" "G" "G" "G" "G" ",2818] "A"	"T" "T" "T" [,2806] "T" "T" "T" "T" "T" "T" "T" "T" "A" "A"	"_" "G" "G" "C" "C" "C" "C" "C" "C" "A" "A"	"_" "G" "G" ",2808] "A" "A" "A" "A" "A" "G" "G" "G" "G"	"_" "G" "G" "G" "G" "G" "G" "G" "G" "G"	"_" "G" "G" ",2810] "A" "A" "A" "A" "A" "A" "C" "C" "C"	"_" "C" "C" ",2811] "A" "A" "A" "A" "A" "C" "C" "C" "C"	"_" "C" "C" "C" "C" "C" "C" "C" "C" "T" "T	"C" "C" "C" "C" [,2813] "T" "T" "T" "T" "T" "G" "G"	"-" "T" "T" "-" [,2814] "C" "-" "C" "C" "C" "T" "T" "T"
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> # Compute the SFS
> SFS <- compute_SFS(alignment)</pre>
> # Output the SFS
> print(SFS)
[1] 41 37 1001 203 1622
> # The function for computeing TajimasD values
  TajimasD <- function(sfs){</pre>
       #For the computed SFS
       n \leftarrow length(sfs) + 1
       ss <- sum(sfs)
       a1 \leftarrow sum(1 / seq_len(n-1))
       a2 <- sum(1 / seq_len(n-1)^2)
       b1 <- (n + 1) / (3 * (n - 1))
       b2 <- 2 * (n^2 + n + 3)/(9 * n * (n - 1))
       c1 <- b1 - 1/a1
       c2 \leftarrow b2 - (n + 2)/(a1 * n) + a2 / a1^2
       e1 <- c1 / a1
       e2 <- c2 / (a1^2 + a2)
       Vd <- e1 * ss + e2 * ss * (ss - 1)
       theta_pi <- sum(2 * seq_len(n-1) * (n - seq_len(n-1)) * sfs)/(n*(n-1))
       theta_w <- ss / a1
       res <- (theta_pi - theta_w) / sqrt(Vd)
       return(res)
+ }
> #Compute TajimaD
> TajimasD(SFS)
[1] 0.05693666
```