

	[,21]	[,22]	[,23]	[,24]	[,25]	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]	[,37]	[,38]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"G"	"G"	"T"	"A"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[4,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[5,]	"T"	"A"	"A"	"T"	"G"	"A"	"T"	"G"	"C"	"A"	"G"	"C"	"T"	"G"	"G"	"T"	"A"	"A"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]
[1,]	"T"	"A"	"G"	"G"	"A"	"T"	"T"	"G"	"T"	"G"	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"T"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"_"	"A"	"G"	"G"	"A"	"T"	"T"	"G"	"T"	"G"	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"T"
[4,]	"_"	"A"	"G"	"G"	"A"	"T"	"T"	"G"	"T"	"G"	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"T"
[5,]	"T"	"A"	"G"	"G"	"A"	"T"	"T"	"G"	"T"	"G"	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"T"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,57]	[,58]	[,59]	[,60]	[,61]	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]	[,70]	[,71]	[,72]	[,73]	[,74]
[1,]	"C"	"T"	"A"	"A"	"G"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"C"	"A"	"C"	"G"	"G"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"T"	"A"	"A"	"G"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"C"	"A"	"C"	"G"	"G"	"G"
[4,]	"C"	"T"	"A"	"A"	"G"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"C"	"A"	"C"	"A"	"G"	"G"
[5,]	"C"	"T"	"A"	"A"	"G"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"C"	"A"	"C"	"A"	"G"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,75]	[,76]	[,77]	[,78]	[,79]	[,80]	[,81]	[,82]	[,83]	[,84]	[,85]	[,86]	[,87]	[,88]	[,89]	[,90]	[,91]	[,92]
[1,]	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"G"	"T"	"G"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"G"	"T"	"G"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"C"
[4,]	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"G"	"T"	"G"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"C"
[5,]	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"G"	"T"	"G"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,93]	[,94]	[,95]	[,96]	[,97]	[,98]	[,99]	[,100]	[,101]	[,102]	[,103]	[,104]	[,105]	[,106]	[,107]	[,108]		
[1,]	"G"	"A"	"C"	"T"	"G"	"G"	"T"	"G"	"T"	"T"	"T"	"A"	"G"	"C"	"A"	"A"		
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"		
[3,]	"G"	"A"	"C"	"T"	"G"	"G"	"T"	"G"	"T"	"T"	"T"	"A"	"G"	"C"	"A"	"A"		
[4,]	"G"	"A"	"C"	"T"	"G"	"G"	"T"	"G"	"T"	"T"	"T"	"G"	"G"	"C"	"A"	"A"		
[5,]	"G"	"A"	"C"	"T"	"G"	"G"	"T"	"G"	"T"	"T"	"T"	"G"	"G"	"C"	"A"	"A"		
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"		
	[,109]	[,110]	[,111]	[,112]	[,113]	[,114]	[,115]	[,116]	[,117]	[,118]	[,119]	[,120]	[,121]	[,122]	[,123]			
[1,]	"C"	"T"	"C"	"C"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"			
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
[3,]	"C"	"T"	"C"	"C"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"			
[4,]	"C"	"T"	"C"	"C"	"A"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"			
[5,]	"C"	"T"	"C"	"C"	"A"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"			
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
	[,124]	[,125]	[,126]	[,127]	[,128]	[,129]	[,130]	[,131]	[,132]	[,133]	[,134]	[,135]	[,136]	[,137]	[,138]			
[1,]	"T"	"G"	"C"	"T"	"G"	"A"	"G"	"G"	"G"	"G"	"C"	"T"	"A"	"G"	"A"			
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
[3,]	"T"	"G"	"C"	"T"	"G"	"A"	"G"	"G"	"G"	"G"	"C"	"T"	"A"	"G"	"A"			
[4,]	"T"	"G"	"C"	"T"	"G"	"A"	"G"	"G"	"G"	"G"	"C"	"T"	"A"	"G"	"A"			
[5,]	"T"	"G"	"C"	"T"	"G"	"A"	"G"	"G"	"G"	"G"	"C"	"T"	"A"	"G"	"A"			
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
	[,139]	[,140]	[,141]	[,142]	[,143]	[,144]	[,145]	[,146]	[,147]	[,148]	[,149]	[,150]	[,151]	[,152]	[,153]			
[1,]	"G"	"C"	"C"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"A"	"C"			
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
[3,]	"G"	"C"	"C"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"A"	"C"			
[4,]	"G"	"C"	"C"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"A"	"C"			
[5,]	"G"	"C"	"C"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"A"	"C"			
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
	[,154]	[,155]	[,156]	[,157]	[,158]	[,159]	[,160]	[,161]	[,162]	[,163]	[,164]	[,165]	[,166]	[,167]	[,168]			
[1,]	"C"	"C"	"T"	"G"	"T"	"G"	"C"	"C"	"C"	"C"	"C"	"G"	"G"	"C"	"C"			
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
[3,]	"C"	"C"	"T"	"G"	"T"	"G"	"C"	"C"	"C"	"C"	"C"	"G"	"G"	"C"	"C"			
[4,]	"C"	"C"	"T"	"G"	"T"	"G"	"C"	"C"	"C"	"C"	"C"	"G"	"G"	"C"	"C"			
[5,]	"C"	"C"	"T"	"G"	"T"	"G"	"C"	"C"	"C"	"C"	"C"	"G"	"G"	"C"	"C"			
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
	[,169]	[,170]	[,171]	[,172]	[,173]	[,174]	[,175]	[,176]	[,177]	[,178]	[,179]	[,180]	[,181]	[,182]	[,183]			
[1,]	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"C"	"A"	"T"	"G"	"C"	"G"	"T"	"G"			
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
[3,]	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"C"	"A"	"T"	"G"	"C"	"G"	"T"	"G"			
[4,]	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"C"	"G"	"T"	"G"	"C"	"G"	"T"	"G"			
[5,]	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"C"	"G"	"T"	"G"	"C"	"G"	"T"	"G"			
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
	[,184]	[,185]	[,186]	[,187]	[,188]	[,189]	[,190]	[,191]	[,192]	[,193]	[,194]	[,195]	[,196]	[,197]	[,198]			
[1,]	"G"	"A"	"A"	"T"	"G"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"G"	"C"	"C"			
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"			
[3,]	"G"	"A"	"A"	"T"	"G"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"G"	"C"	"C"			
[4,]	"G"	"A"	"A"	"T"	"G"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"G"	"C"	"C"			
[5,]	"G"	"A"	"A"	"T"	"G"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"G"	"C"	"C"			

[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,199]	[,200]	[,201]	[,202]	[,203]	[,204]	[,205]	[,206]	[,207]	[,208]	[,209]	[,210]	[,211]	[,212]	[,213]
[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"	"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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,214]	[,215]	[,216]	[,217]	[,218]	[,219]	[,220]	[,221]	[,222]	[,223]	[,224]	[,225]	[,226]	[,227]	[,228]
[1,]	"A"	"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,]	"A"	"G"	"G"	"C"	"T"	"C"	"G"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"A"	"T"	"G"	"G"	"T"	"G"
	[,229]	[,230]	[,231]	[,232]	[,233]	[,234]	[,235]	[,236]	[,237]	[,238]	[,239]	[,240]	[,241]	[,242]	[,243]
[1,]	"C"	"C"	"G"	"C"	"A"	"T"	"G"	"C"	"C"	"A"	"T"	"C"	"T"	"T"	"G"
[2,]	"C"	"C"	"G"	"C"	"A"	"T"	"G"	"C"	"C"	"A"	"T"	"C"	"T"	"T"	"G"
[3,]	"C"	"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]	[,258]
[1,]	"G"	"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"A"	"C"
[2,]	"G"	"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"A"	"C"
[3,]	"G"	"C"	"A"	"C"	"G"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"A"	"C"
[4,]	"G"	"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"	"G"	"G"	"A"	"C"
	[,259]	[,260]	[,261]	[,262]	[,263]	[,264]	[,265]	[,266]	[,267]	[,268]	[,269]	[,270]	[,271]	[,272]	[,273]
[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"
[4,]	"G"	"T"	"G"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"G"	"A"	"A"	"T"
[5,]	"G"	"T"	"G"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"G"	"G"	"A"	"A"	"T"
[6,]	"G"	"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]	[,288]
[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"	"G"	"A"	"C"	"T"	"A"	"C"	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"
[5,]	"G"	"G"	"A"	"C"	"T"	"A"	"C"	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"
[6,]	"G"	"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]	[,303]
[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,]	"T"	"C"	"T"	"G"	"T"	"G"	"C"	"T"	"G"	"T"	"C"	"T"	"G"	"T"	"C"
	[,304]	[,305]	[,306]	[,307]	[,308]	[,309]	[,310]	[,311]	[,312]	[,313]	[,314]	[,315]	[,316]	[,317]	[,318]
[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]	[,333]
[1,]	"C"	"T"	"C"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"G"
[2,]	"C"	"T"	"C"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"G"
[3,]	"C"	"T"	"T"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"G"
[4,]	"C"	"T"	"C"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"T"	"C"	"T"	"T"	"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]	[,348]
[1,]	"A"	"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"G"	"C"	"C"	"T"	"C"
[2,]	"A"	"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"A"	"C"	"C"	"T"	"G"
[3,]	"A"	"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"G"	"C"	"C"	"T"	"C"
[4,]	"A"	"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"A"	"C"	"C"	"T"	"C"
[5,]	"A"	"G"	"G"	"A"	"C"	"C"	"C"	"G"	"G"	"C"	"A"	"C"	"C"	"T"	"C"
[6,]	"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]	[,363]
[1,]	"T"	"C"	"A"	"C"	"C"	"A"	"C"	"A"	"G"	"G"	"A"	"A"	"A"	"T"	"T"
[2,]	"T"	"C"	"A"	"C"	"C"	"A"	"C"	"A"	"G"	"G"	"A"	"A"	"A"	"T"	"T"
[3,]	"T"	"C"	"A"	"C"	"C"	"A"	"C"	"A"	"G"	"G"	"A"	"A"	"A"	"T"	"T"
[4,]	"T"	"C"	"A"	"C"	"C"	"A"	"C"	"A"	"G"	"G"	"A"	"A"	"A"	"T"	"T"

[5,] "T" "C" "A" "C" "C" "A" "C" "A" "G" "G" "A" "A" "A" "T" "T"
[6,] "T" "C" "A" "C" "C" "A" "C" "A" "G" "G" "A" "A" "A" "T" "T"
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[3,] "A" "G" "T" "T" "A" "C" "T" "T" "C" "C" "A" "G" "T" "T" "C"
[4,] "A" "G" "T" "T" "A" "C" "T" "T" "C" "C" "A" "G" "T" "T" "C"
[5,] "A" "G" "T" "T" "A" "C" "T" "T" "C" "C" "A" "G" "T" "T" "C"
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[3,] "C" "C" "T" "G" "G" "A" "G" "A" "G" "C" "T" "C" "C" "T" "G"
[4,] "C" "C" "T" "G" "G" "A" "G" "A" "G" "C" "T" "C" "C" "T" "G"
[5,] "C" "C" "T" "G" "G" "A" "G" "A" "G" "C" "T" "C" "C" "T" "G"
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[3,] "A" "T" "G" "A" "T" "G" "A" "T" "C" "C" "T" "G" "C" "C" "A"
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[5,] "C" "T" "G" "G" "T" "G" "G" "T" "C" "T" "C" "C" "A" "G" "C"
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[3,] "G" "C" "C" "T" "C" "C" "C" "T" "G" "G" "A" "T" "G" "C" "C"
[4,] "G" "C" "C" "T" "C" "C" "C" "T" "G" "G" "A" "T" "G" "C" "C"
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[3,] "A" "A" "G" "A" "C" "C" "T" "C" "C" "A" "G" "C" "C" "G" "C"
[4,] "A" "A" "G" "A" "C" "C" "T" "C" "C" "A" "G" "C" "C" "G" "C"
[5,] "A" "A" "G" "A" "C" "C" "T" "C" "C" "A" "G" "C" "C" "G" "C"
[6,] "A" "A" "G" "A" "C" "C" "T" "C" "C" "A" "G" "C" "C" "G" "C"
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[3,] "C" "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,] "C" "T" "G" "G" "G" "C" "G" "T" "C" "C" "T" "C" "A" "C" "C"
[6,] "C" "T" "G" "G" "G" "C" "G" "T" "C" "C" "T" "C" "A" "C" "C"
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[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,] "G" "T" "G" "G" "C" "G" "T" "A" "C" "T" "A" "C" "C" "T" "G"
[6,] "G" "T" "G" "G" "C" "G" "T" "A" "C" "T" "A" "C" "C" "T" "G"
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[3,] "T" "G" "G" "A" "C" "C" "A" "C" "C" "T" "T" "C" "A" "T" "G"

[4,]	"T"	"G"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"T"	"G"
[5,]	"T"	"G"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"T"	"G"
[6,]	"T"	"G"	"G"	"A"	"C"	"C"	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"T"	"G"
	[,529]	[,530]	[,531]	[,532]	[,533]	[,534]	[,535]	[,536]	[,537]	[,538]	[,539]	[,540]	[,541]	[,542]	[,543]
[1,]	"G"	"C"	"T"	"G"	"T"	"C"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"C"
[2,]	"G"	"C"	"T"	"G"	"T"	"C"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"G"	"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]	[,551]	[,552]	[,553]	[,554]	[,555]	[,556]	[,557]	[,558]
[1,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"T"	"C"	"C"
[2,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"T"	"C"	"C"
[3,]	"A"	"T"	"C"	"T"	"T"	"C"	"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"
	[,559]	[,560]	[,561]	[,562]	[,563]	[,564]	[,565]	[,566]	[,567]	[,568]	[,569]	[,570]	[,571]	[,572]	[,573]
[1,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"T"	"C"	"C"
[2,]	"A"	"T"	"C"	"A"	"T"	"C"	"C"	"A"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[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"
	[,574]	[,575]	[,576]	[,577]	[,578]	[,579]	[,580]	[,581]	[,582]	[,583]	[,584]	[,585]	[,586]	[,587]	[,588]
[1,]	"A"	"G"	"C"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"A"	"G"	"G"
[2,]	"A"	"G"	"C"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"A"	"G"	"G"
[3,]	"A"	"G"	"T"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"A"	"G"	"G"
[4,]	"A"	"G"	"C"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"A"	"G"	"G"
[5,]	"A"	"G"	"C"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"A"	"G"	"G"
[6,]	"A"	"G"	"C"	"G"	"C"	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"A"	"G"	"G"
	[,589]	[,590]	[,591]	[,592]	[,593]	[,594]	[,595]	[,596]	[,597]	[,598]	[,599]	[,600]	[,601]	[,602]	[,603]
[1,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"C"	"G"	"G"	"A"	"G"	"A"	"G"	"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"
	[,604]	[,605]	[,606]	[,607]	[,608]	[,609]	[,610]	[,611]	[,612]	[,613]	[,614]	[,615]	[,616]	[,617]	[,618]
[1,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"A"	"T"	"C"	"C"
[2,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"A"	"T"	"C"	"C"
[3,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"A"	"T"	"C"	"C"
[4,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"A"	"T"	"C"	"C"
[5,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"A"	"T"	"C"	"C"
[6,]	"A"	"G"	"T"	"G"	"G"	"G"	"A"	"A"	"G"	"C"	"C"	"A"	"T"	"C"	"C"
	[,619]	[,620]	[,621]	[,622]	[,623]	[,624]	[,625]	[,626]	[,627]	[,628]	[,629]	[,630]	[,631]	[,632]	[,633]
[1,]	"A"	"T"	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"	"T"	"G"	"A"	"T"
[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"	"T"	"G"	"A"	"T"
[4,]	"A"	"T"	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"	"T"	"G"	"A"	"T"
[5,]	"A"	"T"	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"	"T"	"G"	"A"	"T"
[6,]	"A"	"T"	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"	"T"	"G"	"A"	"T"
	[,634]	[,635]	[,636]	[,637]	[,638]	[,639]	[,640]	[,641]	[,642]	[,643]	[,644]	[,645]	[,646]	[,647]	[,648]
[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,]	"G"	"C"	"C"	"C"	"T"	"G"	"T"	"T"	"G"	"G"	"A"	"C"	"C"	"T"	"C"
[6,]	"G"	"C"	"C"	"C"	"T"	"G"	"T"	"T"	"G"	"G"	"A"	"C"	"C"	"T"	"C"
	[,649]	[,650]	[,651]	[,652]	[,653]	[,654]	[,655]	[,656]	[,657]	[,658]	[,659]	[,660]	[,661]	[,662]	[,663]
[1,]	"A"	"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"	"T"	"C"	"C"	"G"	"G"	"A"	"A"	"C"	"A"	"T"	"G"	"T"	"T"	"C"
[5,]	"A"	"T"	"C"	"C"	"G"	"G"	"A"	"A"	"C"	"A"	"T"	"G"	"T"	"T"	"C"
[6,]	"A"	"T"	"C"	"C"	"G"	"G"	"A"	"A"	"C"	"A"	"T"	"G"	"T"	"T"	"C"
	[,664]	[,665]	[,666]	[,667]	[,668]	[,669]	[,670]	[,671]	[,672]	[,673]	[,674]	[,675]	[,676]	[,677]	[,678]
[1,]	"C"	"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"	"A"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"A"	"G"	"T"	"A"
[5,]	"C"	"C"	"A"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"A"	"G"	"T"	"A"
[6,]	"C"	"C"	"A"	"G"	"C"	"C"	"A"	"A"	"C"	"C"	"T"	"A"	"G"	"T"	"A"
	[,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,]	"G"	"A"	"A"	"G"	"C"	"C"	"A"	"C"	"A"	"T"	"T"	"C"	"A"	"A"	"A"

[3,] "G" "A" "A" "G" "C" "C" "A" "C" "A" "T" "T" "C" "A" "A" "A"
[4,] "G" "A" "A" "G" "C" "C" "A" "C" "A" "T" "T" "C" "A" "A" "A"
[5,] "G" "A" "A" "G" "C" "C" "A" "C" "A" "T" "T" "C" "A" "A" "A"
[6,] "G" "A" "A" "G" "C" "C" "A" "C" "A" "T" "T" "C" "A" "A" "A"
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[4,] "C" "A" "G" "T" "A" "C" "C" "G" "C" "A" "C" "C" "A" "A" "G"
[5,] "C" "A" "G" "T" "A" "C" "C" "G" "C" "A" "C" "C" "A" "A" "G"
[6,] "C" "A" "G" "T" "A" "C" "C" "G" "C" "A" "C" "C" "A" "A" "G"
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[4,] "A" "C" "C" "A" "C" "C" "C" "C" "A" "G" "T" "T" "G" "T" "C"
[5,] "A" "C" "C" "A" "C" "C" "C" "C" "A" "G" "T" "T" "G" "T" "C"
[6,] "A" "C" "C" "A" "C" "C" "C" "C" "A" "G" "T" "T" "G" "T" "C"
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[3,] "A" "A" "G" "T" "C" "C" "C" "C" "C" "A" "A" "G" "G" "T" "G"
[4,] "A" "A" "G" "T" "C" "C" "C" "C" "C" "A" "A" "G" "G" "T" "G"
[5,] "A" "A" "G" "T" "C" "C" "C" "C" "C" "A" "A" "G" "G" "T" "G"
[6,] "A" "A" "G" "T" "C" "C" "C" "C" "C" "A" "A" "G" "G" "T" "G"
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[3,] "G" "C" "A" "C" "C" "A" "G" "A" "G" "G" "A" "G" "G" "C" "C"
[4,] "G" "C" "A" "C" "C" "A" "G" "A" "G" "G" "A" "G" "G" "C" "C"
[5,] "G" "C" "A" "C" "C" "A" "G" "A" "G" "G" "A" "G" "G" "C" "C"
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[4,] "C" "C" "T" "C" "C" "T" "C" "G" "G" "C" "G" "G" "A" "T" "C"
[5,] "C" "C" "T" "C" "C" "T" "C" "G" "G" "C" "G" "G" "A" "T" "C"
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[4,] "C" "T" "C" "A" "T" "C" "T" "A" "C" "G" "G" "G" "G" "T" "C"
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[3,] "C" "A" "G" "G" "A" "G" "G" "A" "G" "A" "A" "T" "G" "G" "C"
[4,] "C" "A" "G" "G" "A" "G" "G" "A" "G" "A" "A" "T" "G" "G" "C"
[5,] "C" "A" "G" "G" "A" "G" "G" "A" "G" "A" "A" "T" "G" "G" "C"
[6,] "C" "A" "G" "G" "A" "G" "G" "A" "G" "A" "A" "T" "G" "G" "C"
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[6,] "T" "C" "C" "C" "A" "T" "G" "T" "G" "C" "A" "G" "A" "A" "C"
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[3,] "T" "T" "C" "G" "C" "C" "C" "T" "G" "G" "A" "C" "C" "T" "G"
[4,] "T" "T" "C" "G" "C" "C" "C" "T" "G" "G" "A" "C" "C" "T" "G"
[5,] "T" "T" "C" "G" "C" "C" "C" "T" "G" "G" "A" "C" "C" "T" "G"
[6,] "T" "T" "C" "G" "C" "C" "C" "T" "G" "G" "A" "C" "C" "T" "G"
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[2,] "A" "C" "C" "C" "C" "G" "C" "C" "G" "C" "C" "C" "G" "A" "G"
[3,] "A" "C" "C" "C" "C" "G" "C" "C" "G" "C" "C" "C" "G" "A" "G"
[4,] "A" "C" "C" "C" "C" "G" "C" "C" "G" "C" "C" "C" "G" "A" "G"
[5,] "A" "C" "C" "C" "C" "G" "C" "C" "G" "C" "C" "C" "G" "A" "G"
[6,] "A" "C" "C" "C" "C" "G" "C" "C" "G" "C" "C" "C" "G" "A" "G"
[1,] [844] [845] [846] [847] [848] [849] [850] [851] [852] [853] [854] [855] [856] [857] [858]
[2,] "G" "T" "C" "G" "T" "T" "T" "A" "C" "A" "A" "G" "T" "C" "A"

[2,]	"G"	"T"	"C"	"G"	"T"	"T"	"T"	"A"	"C"	"A"	"A"	"G"	"T"	"C"	"A"
[3,]	"G"	"T"	"C"	"G"	"T"	"T"	"T"	"A"	"C"	"A"	"A"	"G"	"T"	"C"	"A"
[4,]	"G"	"T"	"C"	"G"	"T"	"T"	"T"	"A"	"C"	"A"	"A"	"G"	"T"	"C"	"A"
[5,]	"G"	"T"	"C"	"G"	"T"	"T"	"T"	"A"	"C"	"A"	"A"	"G"	"T"	"C"	"A"
[6,]	"G"	"T"	"C"	"G"	"T"	"T"	"T"	"A"	"C"	"A"	"A"	"G"	"T"	"C"	"A"
	[,859]	[,860]	[,861]	[,862]	[,863]	[,864]	[,865]	[,866]	[,867]	[,868]	[,869]	[,870]	[,871]	[,872]	[,873]
[1,]	"G"	"A"	"G"	"C"	"C"	"G"	"G"	"G"	"C"	"A"	"C"	"C"	"A"	"G"	"C"
[2,]	"G"	"A"	"G"	"C"	"C"	"G"	"G"	"G"	"C"	"A"	"C"	"C"	"A"	"G"	"C"
[3,]	"G"	"A"	"G"	"C"	"C"	"A"	"G"	"G"	"C"	"A"	"C"	"C"	"A"	"G"	"C"
[4,]	"G"	"A"	"G"	"C"	"C"	"G"	"G"	"G"	"C"	"A"	"C"	"C"	"A"	"G"	"C"
[5,]	"G"	"A"	"G"	"C"	"C"	"G"	"G"	"G"	"C"	"A"	"C"	"C"	"A"	"G"	"C"
[6,]	"G"	"A"	"G"	"C"	"C"	"G"	"G"	"G"	"C"	"A"	"C"	"C"	"A"	"G"	"C"
	[,874]	[,875]	[,876]	[,877]	[,878]	[,879]	[,880]	[,881]	[,882]	[,883]	[,884]	[,885]	[,886]	[,887]	[,888]
[1,]	"G"	"A"	"T"	"G"	"G"	"C"	"A"	"T"	"G"	"A"	"A"	"T"	"G"	"T"	"G"
[2,]	"G"	"A"	"T"	"G"	"G"	"C"	"A"	"T"	"G"	"A"	"A"	"T"	"G"	"T"	"G"
[3,]	"G"	"A"	"T"	"G"	"G"	"C"	"A"	"T"	"G"	"A"	"A"	"C"	"G"	"T"	"G"
[4,]	"G"	"A"	"T"	"G"	"G"	"C"	"A"	"T"	"G"	"A"	"A"	"T"	"G"	"T"	"G"
[5,]	"G"	"A"	"T"	"G"	"G"	"C"	"A"	"T"	"G"	"A"	"A"	"T"	"G"	"T"	"G"
[6,]	"G"	"A"	"T"	"G"	"G"	"C"	"A"	"T"	"G"	"A"	"A"	"T"	"G"	"T"	"G"
	[,889]	[,890]	[,891]	[,892]	[,893]	[,894]	[,895]	[,896]	[,897]	[,898]	[,899]	[,900]	[,901]	[,902]	[,903]
[1,]	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"	"C"
[2,]	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"	"C"
[3,]	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"	"C"
[4,]	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"	"C"
[5,]	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"	"C"
[6,]	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"	"C"
	[,904]	[,905]	[,906]	[,907]	[,908]	[,909]	[,910]	[,911]	[,912]	[,913]	[,914]	[,915]	[,916]	[,917]	[,918]
[1,]	"T"	"T"	"C"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"G"
[2,]	"T"	"T"	"C"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"G"
[3,]	"T"	"T"	"C"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"G"
[4,]	"T"	"T"	"C"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"G"
[5,]	"T"	"T"	"C"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"G"
[6,]	"T"	"T"	"C"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"G"
	[,919]	[,920]	[,921]	[,922]	[,923]	[,924]	[,925]	[,926]	[,927]	[,928]	[,929]	[,930]	[,931]	[,932]	[,933]
[1,]	"G"	"G"	"C"	"A"	"T"	"C"	"A"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"
[2,]	"G"	"G"	"C"	"A"	"T"	"C"	"A"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"
[3,]	"G"	"G"	"C"	"A"	"T"	"C"	"A"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"
[4,]	"G"	"G"	"C"	"A"	"T"	"C"	"A"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"
[5,]	"G"	"G"	"C"	"A"	"T"	"C"	"A"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"
[6,]	"G"	"G"	"C"	"A"	"T"	"C"	"A"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"
	[,934]	[,935]	[,936]	[,937]	[,938]	[,939]	[,940]	[,941]	[,942]	[,943]	[,944]	[,945]	[,946]	[,947]	[,948]
[1,]	"C"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"C"	"A"	"G"	"C"
[2,]	"C"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"C"	"A"	"G"	"C"
[3,]	"C"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"C"	"A"	"G"	"C"
[4,]	"C"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"C"	"A"	"G"	"C"
[5,]	"C"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"C"	"A"	"G"	"C"
[6,]	"C"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"C"	"A"	"G"	"C"
	[,949]	[,950]	[,951]	[,952]	[,953]	[,954]	[,955]	[,956]	[,957]	[,958]	[,959]	[,960]	[,961]	[,962]	[,963]
[1,]	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"C"	"C"	"C"	"T"	"G"	"G"	"T"	"C"
[2,]	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"C"	"C"	"C"	"T"	"G"	"G"	"T"	"C"
[3,]	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"C"	"C"	"C"	"T"	"G"	"G"	"T"	"C"
[4,]	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"C"	"C"	"C"	"T"	"G"	"G"	"T"	"C"
[5,]	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"C"	"C"	"C"	"T"	"G"	"G"	"T"	"C"
[6,]	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"C"	"C"	"C"	"T"	"G"	"G"	"T"	"C"
	[,964]	[,965]	[,966]	[,967]	[,968]	[,969]	[,970]	[,971]	[,972]	[,973]	[,974]	[,975]	[,976]	[,977]	[,978]
[1,]	"A"	"G"	"C"	"T"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"G"	"T"	"G"	"C"
[2,]	"A"	"G"	"C"	"T"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"G"	"T"	"G"	"C"
[3,]	"A"	"G"	"C"	"T"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"G"	"T"	"G"	"C"
[4,]	"A"	"G"	"C"	"T"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"G"	"T"	"G"	"C"
[5,]	"A"	"G"	"C"	"T"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"G"	"T"	"G"	"C"
[6,]	"A"	"G"	"C"	"T"	"T"	"C"	"T"	"G"	"C"	"C"	"A"	"G"	"T"	"G"	"C"
	[,979]	[,980]	[,981]	[,982]	[,983]	[,984]	[,985]	[,986]	[,987]	[,988]	[,989]	[,990]	[,991]	[,992]	[,993]
[1,]	"C"	"T"	"C"	"A"	"A"	"T"	"G"	"A"	"G"	"T"	"C"	"G"	"G"	"T"	"C"
[2,]	"C"	"T"	"C"	"A"	"A"	"T"	"G"	"A"	"G"	"T"	"C"	"G"	"G"	"T"	"C"
[3,]	"C"	"T"	"C"	"A"	"A"	"T"	"G"	"A"	"G"	"T"	"C"	"G"	"G"	"T"	"C"
[4,]	"C"	"T"	"C"	"A"	"A"	"T"	"G"	"A"	"G"	"T"	"C"	"G"	"G"	"T"	"C"
[5,]	"C"	"T"	"C"	"A"	"A"	"T"	"G"	"A"	"G"	"T"	"C"	"G"	"G"	"T"	"C"
[6,]	"C"	"T"	"C"	"A"	"A"	"T"	"G"	"A"	"G"	"T"	"C"	"G"	"G"	"T"	"C"
	[,994]	[,995]	[,996]	[,997]	[,998]	[,999]	[,1000]	[,1001]	[,1002]	[,1003]	[,1004]	[,1005]	[,1006]	[,1007]	
[1,]	"A"	"T"	"G"	"A"	"A"	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	
[2,]	"A"	"T"	"G"	"A"	"A"	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	
[3,]	"A"	"T"	"G"	"A"	"A"	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	
[4,]	"A"	"T"	"G"	"A"	"A"	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	
[5,]	"A"	"T"	"G"	"A"	"A"	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	
[6,]	"A"	"T"	"G"	"A"	"A"	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	
	[,1008]	[,1009]	[,1010]	[,1011]	[,1012]	[,1013]	[,1014]	[,1015]	[,1016]	[,1017]	[,1018]	[,1019]	[,1020]		

[1,]	"G"	"G"	"T"	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"T"	"G"	"G"
[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,]	"A"	"G"	"T"	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"T"	"G"	"G"
	[,1021]	[,1022]	[,1023]	[,1024]	[,1025]	[,1026]	[,1027]	[,1028]	[,1029]	[,1030]	[,1031]	[,1032]	[,1033]
[1,]	"T"	"A"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"T"	"T"	"C"	"G"
[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"
[6,]	"T"	"A"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"T"	"T"	"C"	"G"
	[,1034]	[,1035]	[,1036]	[,1037]	[,1038]	[,1039]	[,1040]	[,1041]	[,1042]	[,1043]	[,1044]	[,1045]	[,1046]
[1,]	"G"	"C"	"A"	"T"	"T"	"G"	"T"	"G"	"T"	"T"	"C"	"C"	"T"
[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"
[5,]	"G"	"C"	"A"	"T"	"T"	"G"	"T"	"G"	"T"	"T"	"C"	"C"	"T"
[6,]	"G"	"C"	"A"	"T"	"T"	"G"	"T"	"G"	"T"	"T"	"C"	"C"	"T"
	[,1047]	[,1048]	[,1049]	[,1050]	[,1051]	[,1052]	[,1053]	[,1054]	[,1055]	[,1056]	[,1057]	[,1058]	[,1059]
[1,]	"C"	"A"	"T"	"C"	"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"
[5,]	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"G"	"G"	"T"	"A"	"A"	"G"
[6,]	"C"	"A"	"T"	"C"	"G"	"C"	"C"	"G"	"G"	"C"	"A"	"A"	"G"
	[,1060]	[,1061]	[,1062]	[,1063]	[,1064]	[,1065]	[,1066]	[,1067]	[,1068]	[,1069]	[,1070]	[,1071]	[,1072]
[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"
[5,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"T"	"G"	"G"
[6,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"T"	"G"	"G"
	[,1073]	[,1074]	[,1075]	[,1076]	[,1077]	[,1078]	[,1079]	[,1080]	[,1081]	[,1082]	[,1083]	[,1084]	[,1085]
[1,]	"A"	"C"	"A"	"C"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"G"	"C"
[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"	"G"	"A"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"G"	"C"
[5,]	"A"	"C"	"G"	"A"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"G"	"C"
[6,]	"A"	"C"	"G"	"A"	"C"	"C"	"C"	"G"	"A"	"G"	"G"	"G"	"C"
	[,1086]	[,1087]	[,1088]	[,1089]	[,1090]	[,1091]	[,1092]	[,1093]	[,1094]	[,1095]	[,1096]	[,1097]	[,1098]
[1,]	"C"	"G"	"T"	"C"	"G"	"G"	"C"	"A"	"A"	"G"	"A"	"A"	"G"
[2,]	"C"	"G"	"T"	"C"	"G"	"G"	"C"	"A"	"A"	"G"	"A"	"A"	"G"
[3,]	"C"	"G"	"T"	"C"	"G"	"G"	"C"	"A"	"A"	"G"	"A"	"A"	"G"
[4,]	"C"	"G"	"T"	"C"	"G"	"G"	"C"	"A"	"A"	"G"	"A"	"A"	"G"
[5,]	"C"	"G"	"T"	"C"	"G"	"G"	"C"	"A"	"A"	"G"	"A"	"A"	"G"
[6,]	"C"	"G"	"T"	"C"	"G"	"G"	"C"	"A"	"A"	"G"	"A"	"A"	"G"
	[,1099]	[,1100]	[,1101]	[,1102]	[,1103]	[,1104]	[,1105]	[,1106]	[,1107]	[,1108]	[,1109]	[,1110]	[,1111]
[1,]	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"A"	"C"	"T"
[2,]	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"A"	"C"	"T"
[3,]	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"A"	"C"	"T"
[4,]	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"A"	"C"	"T"
[5,]	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"A"	"C"	"T"
[6,]	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"T"	"C"	"T"	"A"	"C"	"T"
	[,1112]	[,1113]	[,1114]	[,1115]	[,1116]	[,1117]	[,1118]	[,1119]	[,1120]	[,1121]	[,1122]	[,1123]	[,1124]
[1,]	"C"	"A"	"G"	"T"	"C"	"A"	"C"	"C"	"G"	"T"	"G"	"G"	"T"
[2,]	"C"	"G"	"G"	"T"	"C"	"A"	"C"	"C"	"G"	"T"	"G"	"G"	"T"
[3,]	"C"	"G"	"G"	"T"	"C"	"A"	"C"	"C"	"G"	"T"	"G"	"G"	"T"
[4,]	"C"	"G"	"G"	"T"	"C"	"A"	"C"	"C"	"G"	"T"	"G"	"G"	"T"
[5,]	"C"	"G"	"G"	"T"	"C"	"A"	"C"	"C"	"G"	"T"	"G"	"G"	"T"
[6,]	"C"	"G"	"G"	"T"	"C"	"A"	"C"	"C"	"G"	"T"	"G"	"G"	"T"
	[,1125]	[,1126]	[,1127]	[,1128]	[,1129]	[,1130]	[,1131]	[,1132]	[,1133]	[,1134]	[,1135]	[,1136]	[,1137]
[1,]	"G"	"T"	"G"	"C"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"T"	"G"
[2,]	"G"	"T"	"G"	"C"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"T"	"G"
[3,]	"G"	"T"	"G"	"C"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"T"	"G"
[4,]	"G"	"T"	"G"	"C"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"T"	"G"
[5,]	"G"	"T"	"G"	"C"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"T"	"G"
[6,]	"G"	"T"	"G"	"C"	"G"	"G"	"G"	"C"	"T"	"G"	"G"	"T"	"G"
	[,1138]	[,1139]	[,1140]	[,1141]	[,1142]	[,1143]	[,1144]	[,1145]	[,1146]	[,1147]	[,1148]	[,1149]	[,1150]
[1,]	"C"	"T"	"C"	"C"	"A"	"C"	"G"	"G"	"G"	"C"	"T"	"C"	"T"
[2,]	"C"	"T"	"C"	"C"	"A"	"C"	"G"	"G"	"G"	"C"	"T"	"C"	"T"
[3,]	"C"	"T"	"C"	"C"	"A"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"
[4,]	"C"	"T"	"C"	"C"	"A"	"C"	"G"	"G"	"A"	"C"	"T"	"C"	"T"
[5,]	"C"	"T"	"C"	"C"	"A"	"C"	"G"	"G"	"A"	"C"	"T"	"C"	"T"
[6,]	"C"	"T"	"C"	"C"	"A"	"C"	"G"	"G"	"G"	"C"	"T"	"C"	"T"

	[,1151]	[,1152]	[,1153]	[,1154]	[,1155]	[,1156]	[,1157]	[,1158]	[,1159]	[,1160]	[,1161]	[,1162]	[,1163]
[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,]	"T"	"C"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"C"	"C"	"T"
[4,]	"T"	"T"	"A"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"C"	"C"	"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"
	[,1164]	[,1165]	[,1166]	[,1167]	[,1168]	[,1169]	[,1170]	[,1171]	[,1172]	[,1173]	[,1174]	[,1175]	[,1176]
[1,]	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"T"	"T"	"C"	"T"	"T"	"C"
[2,]	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"T"	"T"	"C"	"T"	"T"	"C"
[3,]	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"T"	"T"	"C"	"T"	"T"	"C"
[4,]	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"T"	"T"	"C"	"T"	"T"	"C"
[5,]	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"T"	"T"	"C"	"T"	"T"	"C"
[6,]	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"T"	"T"	"C"	"T"	"T"	"C"
	[,1177]	[,1178]	[,1179]	[,1180]	[,1181]	[,1182]	[,1183]	[,1184]	[,1185]	[,1186]	[,1187]	[,1188]	[,1189]
[1,]	"A"	"T"	"C"	"A"	"C"	"C"	"A"	"A"	"G"	"A"	"A"	"G"	"A"
[2,]	"A"	"T"	"C"	"A"	"C"	"C"	"A"	"A"	"G"	"A"	"A"	"G"	"A"
[3,]	"A"	"T"	"C"	"A"	"C"	"C"	"A"	"A"	"G"	"A"	"A"	"G"	"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"
	[,1190]	[,1191]	[,1192]	[,1193]	[,1194]	[,1195]	[,1196]	[,1197]	[,1198]	[,1199]	[,1200]	[,1201]	[,1202]
[1,]	"A"	"T"	"C"	"C"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"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"	"C"	"C"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"
[5,]	"A"	"T"	"C"	"C"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"
[6,]	"A"	"T"	"C"	"C"	"C"	"A"	"T"	"C"	"G"	"T"	"C"	"T"	"T"
	[,1203]	[,1204]	[,1205]	[,1206]	[,1207]	[,1208]	[,1209]	[,1210]	[,1211]	[,1212]	[,1213]	[,1214]	[,1215]
[1,]	"C"	"A"	"T"	"C"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"T"	"C"
[2,]	"C"	"A"	"T"	"C"	"C"	"G"	"C"	"G"	"G"	"C"	"A"	"T"	"C"
[3,]	"C"	"A"	"T"	"C"	"C"	"G"	"C"	"G"	"G"	"C"	"A"	"T"	"C"
[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"
	[,1216]	[,1217]	[,1218]	[,1219]	[,1220]	[,1221]	[,1222]	[,1223]	[,1224]	[,1225]	[,1226]	[,1227]	[,1228]
[1,]	"C"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"T"	"C"	"T"	"G"	"C"
[2,]	"C"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"T"	"C"	"T"	"G"	"C"
[3,]	"C"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"T"	"C"	"T"	"G"	"C"
[4,]	"C"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"T"	"C"	"T"	"G"	"C"
[5,]	"C"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"T"	"C"	"T"	"G"	"C"
[6,]	"C"	"T"	"G"	"C"	"A"	"G"	"G"	"C"	"T"	"C"	"T"	"G"	"C"
	[,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"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"T"	"G"	"G"	"C"
[4,]	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"T"	"G"	"G"	"C"
[5,]	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"T"	"T"	"G"	"G"	"C"
[6,]	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"T"	"T"	"G"	"G"	"C"
	[,1242]	[,1243]	[,1244]	[,1245]	[,1246]	[,1247]	[,1248]	[,1249]	[,1250]	[,1251]	[,1252]	[,1253]	[,1254]
[1,]	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
[2,]	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
[3,]	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
[4,]	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
[5,]	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
[6,]	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"
	[,1255]	[,1256]	[,1257]	[,1258]	[,1259]	[,1260]	[,1261]	[,1262]	[,1263]	[,1264]	[,1265]	[,1266]	[,1267]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"A"	"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,]	"A"	"A"	"G"	"A"	"A"	"C"	"C"	"A"	"A"	"G"	"T"	"G"	"A"
[6,]	"A"	"A"	"G"	"A"	"A"	"C"	"C"	"A"	"A"	"G"	"T"	"G"	"A"
	[,1268]	[,1269]	[,1270]	[,1271]	[,1272]	[,1273]	[,1274]	[,1275]	[,1276]	[,1277]	[,1278]	[,1279]	[,1280]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"G"	"A"	"G"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"T"	"G"
[3,]	"G"	"A"	"G"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"T"	"G"
[4,]	"G"	"A"	"G"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"T"	"G"
[5,]	"G"	"A"	"G"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"T"	"G"
[6,]	"G"	"A"	"G"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"T"	"G"
	[,1281]	[,1282]	[,1283]	[,1284]	[,1285]	[,1286]	[,1287]	[,1288]	[,1289]	[,1290]	[,1291]	[,1292]	[,1293]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"C"	"C"	"C"	"G"	"C"	"G"	"G"	"T"	"C"	"C"	"T"	"T"	"A"
[3,]	"C"	"C"	"C"	"G"	"C"	"A"	"G"	"T"	"C"	"C"	"T"	"T"	"C"
[4,]	"C"	"C"	"C"	"G"	"C"	"G"	"G"	"T"	"C"	"C"	"T"	"T"	"A"
[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]	[,1297]	[,1298]	[,1299]	[,1300]	[,1301]	[,1302]	[,1303]	[,1304]	[,1305]	[,1306]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"
[3,]	"C"	"C"	"C"	"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"	"C"	"T"	"C"	"C"	"T"	"G"	"C"	"C"	"A"	"G"	"A"	"G"
	[,1307]	[,1308]	[,1309]	[,1310]	[,1311]	[,1312]	[,1313]	[,1314]	[,1315]	[,1316]	[,1317]	[,1318]	[,1319]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[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"	"A"	"G"	"C"	"G"	"C"	"C"	"G"	"C"	"A"	"G"	"A"	"G"
[5,]	"C"	"A"	"G"	"C"	"G"	"C"	"C"	"G"	"C"	"A"	"G"	"A"	"G"
[6,]	"C"	"A"	"G"	"C"	"G"	"C"	"C"	"A"	"C"	"A"	"G"	"G"	"G"
	[,1320]	[,1321]	[,1322]	[,1323]	[,1324]	[,1325]	[,1326]	[,1327]	[,1328]	[,1329]	[,1330]	[,1331]	[,1332]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"G"	"C"	"A"	"C"	"A"	"A"	"A"	"C"	"A"	"C"	"T"	"C"	"C"
[3,]	"G"	"C"	"A"	"C"	"A"	"A"	"A"	"C"	"A"	"C"	"T"	"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"
	[,1333]	[,1334]	[,1335]	[,1336]	[,1337]	[,1338]	[,1339]	[,1340]	[,1341]	[,1342]	[,1343]	[,1344]	[,1345]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[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,]	"T"	"G"	"G"	"C"	"G"	"G"	"G"	"G"	"T"	"G"	"G"	"C"	"T"
[6,]	"T"	"G"	"G"	"C"	"G"	"G"	"G"	"G"	"T"	"G"	"G"	"C"	"T"
	[,1346]	[,1347]	[,1348]	[,1349]	[,1350]	[,1351]	[,1352]	[,1353]	[,1354]	[,1355]	[,1356]	[,1357]	[,1358]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"G"	"C"	"C"	"T"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"G"
[3,]	"G"	"C"	"C"	"T"	"G"	"G"	"G"	"G"	"T"	"G"	"G"	"G"	"G"
[4,]	"G"	"C"	"C"	"T"	"G"	"G"	"G"	"G"	"A"	"G"	"G"	"G"	"G"
[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]	[,1360]	[,1361]	[,1362]	[,1363]	[,1364]	[,1365]	[,1366]	[,1367]	[,1368]	[,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"	"G"	"A"	"G"	"C"	"T"	"T"	"C"	"C"	"C"	"G"	"A"	"C"
	[,1372]	[,1373]	[,1374]	[,1375]	[,1376]	[,1377]	[,1378]	[,1379]	[,1380]	[,1381]	[,1382]	[,1383]	[,1384]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[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,]	"G"	"G"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"A"	"G"	"C"	"C"
[5,]	"G"	"G"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"A"	"G"	"C"	"C"
[6,]	"G"	"G"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"A"	"G"	"C"	"C"
	[,1385]	[,1386]	[,1387]	[,1388]	[,1389]	[,1390]	[,1391]	[,1392]	[,1393]	[,1394]	[,1395]	[,1396]	[,1397]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"G"	"G"
[3,]	"A"	"C"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"G"	"G"
[4,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"G"	"G"
[5,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"G"	"G"
[6,]	"A"	"T"	"C"	"C"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"G"	"G"
	[,1398]	[,1399]	[,1400]	[,1401]	[,1402]	[,1403]	[,1404]	[,1405]	[,1406]	[,1407]	[,1408]	[,1409]	[,1410]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[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"	"G"	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"G"	"A"	"C"
[5,]	"G"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"G"	"A"	"C"
[6,]	"G"	"T"	"G"	"C"	"T"	"G"	"G"	"G"	"C"	"A"	"G"	"A"	"C"
	[,1411]	[,1412]	[,1413]	[,1414]	[,1415]	[,1416]	[,1417]	[,1418]	[,1419]	[,1420]	[,1421]	[,1422]	[,1423]
[1,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[2,]	"A"	"C"	"C"	"G"	"G"	"C"	"C"	"C"	"C"	"T"	"C"	"T"	"A"
[3,]	"A"	"C"	"C"	"G"	"G"	"C"	"C"	"C"	"C"	"T"	"C"	"T"	"A"
[4,]	"A"	"C"	"C"	"G"	"G"	"C"	"C"	"C"	"C"	"T"	"C"	"T"	"A"
[5,]	"A"	"C"	"C"	"G"	"G"	"C"	"C"	"C"	"C"	"T"	"C"	"T"	"A"
[6,]	"A"	"C"	"C"	"G"	"G"	"C"	"C"	"C"	"C"	"T"	"C"	"T"	"A"
	[,1424]	[,1425]	[,1426]	[,1427]	[,1428]	[,1429]	[,1430]	[,1431]	[,1432]	[,1433]	[,1434]	[,1435]	[,1436]
[1,]	"_"	"_"	"_"	"_"	"_"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"
[2,]	"A"	"C"	"C"	"G"	"T"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"
[3,]	"A"	"C"	"C"	"G"	"T"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"
[4,]	"A"	"C"	"C"	"G"	"T"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"

[5,]	"A"	"C"	"C"	"G"	"T"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"
[6,]	"A"	"C"	"C"	"G"	"T"	"A"	"G"	"C"	"T"	"C"	"A"	"G"	"C"
	[,1437]	[,1438]	[,1439]	[,1440]	[,1441]	[,1442]	[,1443]	[,1444]	[,1445]	[,1446]	[,1447]	[,1448]	[,1449]
[1,]	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
[2,]	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
[3,]	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
[4,]	"C"	"A"	"C"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"T"	"C"
[5,]	"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]	[,1456]	[,1457]	[,1458]	[,1459]	[,1460]	[,1461]	[,1462]
[1,]	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"C"	"C"
[2,]	"A"	"C"	"C"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"C"	"C"
[3,]	"A"	"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]	[,1465]	[,1466]	[,1467]	[,1468]	[,1469]	[,1470]	[,1471]	[,1472]	[,1473]	[,1474]	[,1475]
[1,]	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A"
[2,]	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A"
[3,]	"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"
[5,]	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A"
[6,]	"T"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"A"	"C"	"A"	"A"
	[,1476]	[,1477]	[,1478]	[,1479]	[,1480]	[,1481]	[,1482]	[,1483]	[,1484]	[,1485]	[,1486]	[,1487]	[,1488]
[1,]	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G"
[2,]	"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"
[4,]	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G"
[5,]	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G"
[6,]	"C"	"C"	"A"	"C"	"A"	"T"	"C"	"G"	"A"	"C"	"C"	"G"	"G"
	[,1489]	[,1490]	[,1491]	[,1492]	[,1493]	[,1494]	[,1495]	[,1496]	[,1497]	[,1498]	[,1499]	[,1500]	[,1501]
[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"
[3,]	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"G"	"C"	"T"
[4,]	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"T"	"C"	"G"	"C"	"T"
[5,]	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"T"	"C"	"G"	"C"	"T"
[6,]	"C"	"G"	"C"	"A"	"T"	"C"	"G"	"C"	"G"	"C"	"G"	"C"	"T"
	[,1502]	[,1503]	[,1504]	[,1505]	[,1506]	[,1507]	[,1508]	[,1509]	[,1510]	[,1511]	[,1512]	[,1513]	[,1514]
[1,]	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T"
[2,]	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T"
[3,]	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T"
[4,]	"T"	"C"	"G"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"G"	"T"
[5,]	"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]	[,1520]	[,1521]	[,1522]	[,1523]	[,1524]	[,1525]	[,1526]	[,1527]
[1,]	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C"
[2,]	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C"
[3,]	"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"
[6,]	"G"	"G"	"G"	"T"	"G"	"C"	"C"	"A"	"C"	"C"	"A"	"T"	"C"
	[,1528]	[,1529]	[,1530]	[,1531]	[,1532]	[,1533]	[,1534]	[,1535]	[,1536]	[,1537]	[,1538]	[,1539]	[,1540]
[1,]	"A"	"A"	"C"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A"
[2,]	"A"	"A"	"C"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A"
[3,]	"A"	"A"	"C"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A"
[4,]	"A"	"A"	"T"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A"
[5,]	"A"	"A"	"T"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A"
[6,]	"A"	"A"	"C"	"A"	"T"	"G"	"G"	"A"	"C"	"G"	"G"	"C"	"A"
	[,1541]	[,1542]	[,1543]	[,1544]	[,1545]	[,1546]	[,1547]	[,1548]	[,1549]	[,1550]	[,1551]	[,1552]	[,1553]
[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"	"C"	"G"	"A"
[3,]	"C"	"T"	"G"	"C"	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"G"	"A"
[4,]	"C"	"T"	"G"	"C"	"G"	"C"	"T"	"C"	"T"	"A"	"C"	"G"	"A"
[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]	[,1559]	[,1560]	[,1561]	[,1562]	[,1563]	[,1564]	[,1565]	[,1566]
[1,]	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C"
[2,]	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C"
[3,]	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C"
[4,]	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C"
[5,]	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C"
[6,]	"G"	"G"	"C"	"T"	"G"	"T"	"G"	"G"	"C"	"C"	"G"	"C"	"C"
	[,1567]	[,1568]	[,1569]	[,1570]	[,1571]	[,1572]	[,1573]	[,1574]	[,1575]	[,1576]	[,1577]	[,1578]	[,1579]
[1,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"C"	"C"
[2,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"C"	"C"
[3,]	"A"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"T"	"C"

[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"	"T"	"C"	"T"	"T"	"C"	"A"	"T"	"C"	"G"	"C"	"C"	"C"
	[,1580]	[,1581]	[,1582]	[,1583]	[,1584]	[,1585]	[,1586]	[,1587]	[,1588]	[,1589]	[,1590]	[,1591]	[,1592]
[1,]	"A"	"G"	"G"	"T"	"C"	"A"	"A"	"C"	"A"	"A"	"C"	"T"	"A"
[2,]	"A"	"G"	"G"	"T"	"C"	"A"	"A"	"C"	"A"	"A"	"C"	"T"	"A"
[3,]	"A"	"G"	"G"	"T"	"C"	"A"	"A"	"C"	"A"	"A"	"C"	"T"	"A"
[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,]	"A"	"G"	"G"	"T"	"C"	"A"	"A"	"C"	"A"	"A"	"C"	"T"	"A"
	[,1593]	[,1594]	[,1595]	[,1596]	[,1597]	[,1598]	[,1599]	[,1600]	[,1601]	[,1602]	[,1603]	[,1604]	[,1605]
[1,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"C"	"T"	"T"	"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,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"C"	"T"	"T"	"T"
[5,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"C"	"T"	"T"	"T"
[6,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"C"	"T"	"T"	"T"
	[,1606]	[,1607]	[,1608]	[,1609]	[,1610]	[,1611]	[,1612]	[,1613]	[,1614]	[,1615]	[,1616]	[,1617]	[,1618]
[1,]	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"T"	"C"	"A"
[2,]	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"T"	"C"	"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,]	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"T"	"C"	"A"
[6,]	"G"	"G"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"T"	"C"	"A"
	[,1619]	[,1620]	[,1621]	[,1622]	[,1623]	[,1624]	[,1625]	[,1626]	[,1627]	[,1628]	[,1629]	[,1630]	[,1631]
[1,]	"C"	"C"	"A"	"T"	"C"	"A"	"G"	"T"	"A"	"T"	"C"	"A"	"C"
[2,]	"C"	"C"	"A"	"T"	"C"	"A"	"G"	"T"	"A"	"T"	"C"	"A"	"C"
[3,]	"C"	"C"	"A"	"T"	"C"	"A"	"G"	"T"	"A"	"T"	"C"	"A"	"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"	"C"	"A"	"T"	"C"	"A"	"G"	"T"	"A"	"T"	"C"	"A"	"C"
	[,1632]	[,1633]	[,1634]	[,1635]	[,1636]	[,1637]	[,1638]	[,1639]	[,1640]	[,1641]	[,1642]	[,1643]	[,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,]	"A"	"G"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"C"	"C"
[4,]	"A"	"G"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"C"	"C"
[5,]	"A"	"G"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"C"	"C"
[6,]	"A"	"G"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"	"G"	"C"	"C"
	[,1645]	[,1646]	[,1647]	[,1648]	[,1649]	[,1650]	[,1651]	[,1652]	[,1653]	[,1654]	[,1655]	[,1656]	[,1657]
[1,]	"A"	"G"	"C"	"A"	"T"	"T"	"G"	"G"	"G"	"G"	"C"	"A"	"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,]	"A"	"G"	"C"	"A"	"T"	"T"	"G"	"G"	"G"	"G"	"C"	"A"	"G"
[5,]	"A"	"G"	"C"	"A"	"T"	"T"	"G"	"G"	"G"	"G"	"C"	"A"	"G"
[6,]	"A"	"G"	"C"	"A"	"T"	"T"	"G"	"G"	"G"	"G"	"C"	"A"	"G"
	[,1658]	[,1659]	[,1660]	[,1661]	[,1662]	[,1663]	[,1664]	[,1665]	[,1666]	[,1667]	[,1668]	[,1669]	[,1670]
[1,]	"C"	"T"	"G"	"G"	"C"	"A"	"T"	"C"	"C"	"C"	"C"	"C"	"A"
[2,]	"C"	"T"	"G"	"G"	"C"	"A"	"T"	"C"	"C"	"C"	"C"	"C"	"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,]	"C"	"T"	"G"	"G"	"C"	"A"	"T"	"C"	"C"	"C"	"C"	"C"	"A"
[6,]	"C"	"T"	"G"	"G"	"C"	"A"	"T"	"C"	"C"	"C"	"C"	"C"	"A"
	[,1671]	[,1672]	[,1673]	[,1674]	[,1675]	[,1676]	[,1677]	[,1678]	[,1679]	[,1680]	[,1681]	[,1682]	[,1683]
[1,]	"G"	"G"	"C"	"C"	"G"	"G"	"C"	"C"	"T"	"C"	"G"	"T"	"C"
[2,]	"G"	"G"	"C"	"C"	"G"	"G"	"C"	"C"	"T"	"C"	"G"	"T"	"C"
[3,]	"G"	"G"	"C"	"C"	"G"	"G"	"C"	"C"	"T"	"C"	"G"	"T"	"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"	"C"	"C"	"G"	"G"	"C"	"C"	"T"	"C"	"G"	"T"	"C"
	[,1684]	[,1685]	[,1686]	[,1687]	[,1688]	[,1689]	[,1690]	[,1691]	[,1692]	[,1693]	[,1694]	[,1695]	[,1696]
[1,]	"A"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
[2,]	"A"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
[3,]	"A"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
[4,]	"A"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
[5,]	"A"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
[6,]	"A"	"C"	"C"	"A"	"T"	"G"	"G"	"T"	"C"	"A"	"T"	"C"	"G"
	[,1697]	[,1698]	[,1699]	[,1700]	[,1701]	[,1702]	[,1703]	[,1704]	[,1705]	[,1706]	[,1707]	[,1708]	[,1709]
[1,]	"T"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"G"	"T"
[2,]	"T"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"G"	"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,]	"T"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"G"	"T"
[6,]	"T"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"T"	"C"	"C"	"G"	"T"
	[,1710]	[,1711]	[,1712]	[,1713]	[,1714]	[,1715]	[,1716]	[,1717]	[,1718]	[,1719]	[,1720]	[,1721]	[,1722]
[1,]	"G"	"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"
[2,]	"G"	"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"

[3,]	"G"	"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"
[4,]	"G"	"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"
[5,]	"G"	"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"
[6,]	"G"	"G"	"G"	"A"	"C"	"T"	"G"	"C"	"C"	"C"	"A"	"C"	"C"
	[,1723]	[,1724]	[,1725]	[,1726]	[,1727]	[,1728]	[,1729]	[,1730]	[,1731]	[,1732]	[,1733]	[,1734]	[,1735]
[1,]	"G"	"A"	"T"	"G"	"A"	"C"	"A"	"T"	"C"	"A"	"C"	"C"	"C"
[2,]	"G"	"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,]	"G"	"A"	"T"	"G"	"A"	"C"	"A"	"T"	"C"	"A"	"C"	"C"	"C"
	[,1736]	[,1737]	[,1738]	[,1739]	[,1740]	[,1741]	[,1742]	[,1743]	[,1744]	[,1745]	[,1746]	[,1747]	[,1748]
[1,]	"T"	"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
[2,]	"T"	"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"T"	"G"	"T"
[3,]	"T"	"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
[4,]	"T"	"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
[5,]	"T"	"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
[6,]	"T"	"C"	"A"	"T"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"G"	"T"
	[,1749]	[,1750]	[,1751]	[,1752]	[,1753]	[,1754]	[,1755]	[,1756]	[,1757]	[,1758]	[,1759]	[,1760]	[,1761]
[1,]	"T"	"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,]	"T"	"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
[4,]	"T"	"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
[5,]	"T"	"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
[6,]	"T"	"G"	"A"	"C"	"T"	"G"	"G"	"G"	"C"	"T"	"C"	"T"	"G"
	[,1762]	[,1763]	[,1764]	[,1765]	[,1766]	[,1767]	[,1768]	[,1769]	[,1770]	[,1771]	[,1772]	[,1773]	[,1774]
[1,]	"G"	"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[2,]	"G"	"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[3,]	"G"	"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[4,]	"G"	"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[5,]	"G"	"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
[6,]	"G"	"A"	"C"	"C"	"G"	"T"	"T"	"T"	"C"	"C"	"G"	"C"	"A"
	[,1775]	[,1776]	[,1777]	[,1778]	[,1779]	[,1780]	[,1781]	[,1782]	[,1783]	[,1784]	[,1785]	[,1786]	[,1787]
[1,]	"C"	"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
[2,]	"C"	"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
[3,]	"C"	"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
[4,]	"C"	"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
[5,]	"C"	"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"T"	"G"	"T"
[6,]	"C"	"C"	"A"	"T"	"G"	"A"	"T"	"T"	"A"	"A"	"C"	"G"	"T"
	[,1788]	[,1789]	[,1790]	[,1791]	[,1792]	[,1793]	[,1794]	[,1795]	[,1796]	[,1797]	[,1798]	[,1799]	[,1800]
[1,]	"G"	"C"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"T"	"G"	"C"	"G"
[2,]	"G"	"C"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"T"	"G"	"C"	"G"
[3,]	"G"	"C"	"T"	"G"	"G"	"G"	"T"	"G"	"A"	"T"	"G"	"C"	"G"
[4,]	"G"	"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]	[,1813]
[1,]	"C"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
[2,]	"C"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
[3,]	"C"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
[4,]	"C"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
[5,]	"C"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
[6,]	"C"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"G"	"G"	"G"	"G"	"A"
	[,1814]	[,1815]	[,1816]	[,1817]	[,1818]	[,1819]	[,1820]	[,1821]	[,1822]	[,1823]	[,1824]	[,1825]	[,1826]
[1,]	"T"	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"A"	"T"	"A"	"T"
[2,]	"T"	"C"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"A"	"T"	"A"	"T"
[3,]	"T"	"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]	[,1831]	[,1832]	[,1833]	[,1834]	[,1835]	[,1836]	[,1837]	[,1838]	[,1839]
[1,]	"A"	"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
[2,]	"A"	"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
[3,]	"A"	"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
[4,]	"A"	"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
[5,]	"A"	"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
[6,]	"A"	"T"	"G"	"T"	"C"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"T"
	[,1840]	[,1841]	[,1842]	[,1843]	[,1844]	[,1845]	[,1846]	[,1847]	[,1848]	[,1849]	[,1850]	[,1851]	[,1852]
[1,]	"T"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[2,]	"T"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[3,]	"T"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[4,]	"T"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[5,]	"T"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
[6,]	"T"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"G"	"G"	"A"	"C"	"A"
	[,1853]	[,1854]	[,1855]	[,1856]	[,1857]	[,1858]	[,1859]	[,1860]	[,1861]	[,1862]	[,1863]	[,1864]	[,1865]
[1,]	"C"	"A"	"G"	"G"	"C"	"A"	"C"	"C"	"G"	"A"	"G"	"A"	"A"

[2,]	"C"	"G"	"G"	"G"	"C"	"A"	"C"	"C"	"G"	"A"	"G"	"A"	"A"
[3,]	"C"	"A"	"G"	"G"	"C"	"A"	"C"	"C"	"G"	"A"	"G"	"A"	"A"
[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"
	[,1866]	[,1867]	[,1868]	[,1869]	[,1870]	[,1871]	[,1872]	[,1873]	[,1874]	[,1875]	[,1876]	[,1877]	[,1878]
[1,]	"A"	"C"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"T"	"G"	"C"
[2,]	"A"	"C"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"T"	"G"	"C"
[3,]	"A"	"C"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"T"	"G"	"C"
[4,]	"A"	"C"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"T"	"G"	"C"
[5,]	"A"	"C"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"T"	"G"	"C"
[6,]	"A"	"C"	"T"	"G"	"C"	"T"	"G"	"C"	"C"	"C"	"T"	"G"	"C"
	[,1879]	[,1880]	[,1881]	[,1882]	[,1883]	[,1884]	[,1885]	[,1886]	[,1887]	[,1888]	[,1889]	[,1890]	[,1891]
[1,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"
[2,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"
[3,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"
[4,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"
[5,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"
[6,]	"G"	"A"	"G"	"A"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"
	[,1892]	[,1893]	[,1894]	[,1895]	[,1896]	[,1897]	[,1898]	[,1899]	[,1900]	[,1901]	[,1902]	[,1903]	[,1904]
[1,]	"T"	"G"	"A"	"G"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"	"A"
[2,]	"T"	"G"	"A"	"G"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"	"A"
[3,]	"T"	"G"	"A"	"G"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"	"A"
[4,]	"T"	"G"	"A"	"G"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"	"A"
[5,]	"T"	"G"	"A"	"G"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"	"A"
[6,]	"T"	"G"	"A"	"G"	"C"	"C"	"T"	"C"	"C"	"A"	"G"	"G"	"A"
	[,1905]	[,1906]	[,1907]	[,1908]	[,1909]	[,1910]	[,1911]	[,1912]	[,1913]	[,1914]	[,1915]	[,1916]	[,1917]
[1,]	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"C"
[2,]	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"C"
[3,]	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"C"
[4,]	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"C"
[5,]	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"C"
[6,]	"G"	"A"	"T"	"C"	"G"	"T"	"G"	"G"	"C"	"A"	"G"	"C"	"C"
	[,1918]	[,1919]	[,1920]	[,1921]	[,1922]	[,1923]	[,1924]	[,1925]	[,1926]	[,1927]	[,1928]	[,1929]	[,1930]
[1,]	"C"	"A"	"G"	"C"	"A"	"G"	"A"	"A"	"T"	"G"	"G"	"C"	"T"
[2,]	"C"	"A"	"G"	"C"	"A"	"G"	"A"	"A"	"T"	"G"	"G"	"C"	"T"
[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"
[5,]	"C"	"A"	"G"	"C"	"A"	"G"	"A"	"A"	"T"	"G"	"G"	"C"	"T"
[6,]	"C"	"A"	"G"	"C"	"A"	"G"	"A"	"A"	"T"	"G"	"G"	"C"	"T"
	[,1931]	[,1932]	[,1933]	[,1934]	[,1935]	[,1936]	[,1937]	[,1938]	[,1939]	[,1940]	[,1941]	[,1942]	[,1943]
[1,]	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
[2,]	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
[3,]	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
[4,]	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
[5,]	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
[6,]	"G"	"T"	"G"	"T"	"G"	"A"	"A"	"G"	"A"	"G"	"T"	"G"	"T"
	[,1944]	[,1945]	[,1946]	[,1947]	[,1948]	[,1949]	[,1950]	[,1951]	[,1952]	[,1953]	[,1954]	[,1955]	[,1956]
[1,]	"A"	"G"	"C"	"C"	"G"	"A"	"G"	"G"	"C"	"C"	"T"	"C"	"C"
[2,]	"A"	"G"	"C"	"C"	"G"	"A"	"G"	"G"	"C"	"C"	"T"	"C"	"C"
[3,]	"A"	"G"	"C"	"C"	"G"	"A"	"G"	"G"	"C"	"T"	"T"	"C"	"C"
[4,]	"A"	"G"	"C"	"C"	"G"	"A"	"G"	"G"	"C"	"C"	"T"	"C"	"C"
[5,]	"A"	"G"	"C"	"C"	"G"	"A"	"G"	"G"	"C"	"C"	"T"	"C"	"C"
[6,]	"A"	"G"	"C"	"C"	"G"	"A"	"G"	"G"	"C"	"C"	"T"	"C"	"C"
	[,1957]	[,1958]	[,1959]	[,1960]	[,1961]	[,1962]	[,1963]	[,1964]	[,1965]	[,1966]	[,1967]	[,1968]	[,1969]
[1,]	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"G"	"G"
[2,]	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"G"	"G"
[3,]	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"G"	"G"
[4,]	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"G"	"G"
[5,]	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"G"	"G"
[6,]	"G"	"A"	"G"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"G"	"G"
	[,1970]	[,1971]	[,1972]	[,1973]	[,1974]	[,1975]	[,1976]	[,1977]	[,1978]	[,1979]	[,1980]	[,1981]	[,1982]
[1,]	"G"	"C"	"C"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"	"C"
[2,]	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"C"	"T"	"G"	"C"	"C"	"C"
[3,]	"G"	"C"	"C"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"	"C"
[4,]	"G"	"C"	"C"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"	"C"
[5,]	"G"	"C"	"C"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"	"C"
[6,]	"G"	"C"	"C"	"C"	"C"	"A"	"C"	"C"	"T"	"G"	"C"	"C"	"C"
	[,1983]	[,1984]	[,1985]	[,1986]	[,1987]	[,1988]	[,1989]	[,1990]	[,1991]	[,1992]	[,1993]	[,1994]	[,1995]
[1,]	"C"	"C"	"A"	"C"	"C"	"A"	"C"	"G"	"T"	"C"	"C"	"C"	"C"
[2,]	"C"	"C"	"A"	"C"	"C"	"A"	"C"	"G"	"T"	"C"	"C"	"C"	"C"
[3,]	"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"
[5,]	"C"	"C"	"A"	"C"	"C"	"A"	"C"	"G"	"T"	"C"	"C"	"C"	"C"
[6,]	"C"	"C"	"A"	"C"	"C"	"A"	"C"	"G"	"T"	"C"	"C"	"C"	"C"
	[,1996]	[,1997]	[,1998]	[,1999]	[,2000]	[,2001]	[,2002]	[,2003]	[,2004]	[,2005]	[,2006]	[,2007]	[,2008]

[1,]	"G"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
[2,]	"G"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
[3,]	"G"	"T"	"T"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"	"G"	"C"
[4,]	"G"	"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"
[1,]	[,2009]	[,2010]	[,2011]	[,2012]	[,2013]	[,2014]	[,2015]	[,2016]	[,2017]	[,2018]	[,2019]	[,2020]	[,2021]
[1,]	"A"	"G"	"G"	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"T"
[2,]	"A"	"G"	"G"	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"T"
[3,]	"A"	"G"	"G"	"A"	"C"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"C"
[4,]	"A"	"G"	"G"	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"T"
[5,]	"A"	"G"	"G"	"A"	"T"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"T"
[6,]	"A"	"G"	"G"	"A"	"C"	"G"	"A"	"G"	"G"	"A"	"G"	"C"	"C"
[1,]	[,2022]	[,2023]	[,2024]	[,2025]	[,2026]	[,2027]	[,2028]	[,2029]	[,2030]	[,2031]	[,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,]	"G"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
[5,]	"G"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
[6,]	"A"	"C"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"G"	"A"	"G"	"T"
[1,]	[,2035]	[,2036]	[,2037]	[,2038]	[,2039]	[,2040]	[,2041]	[,2042]	[,2043]	[,2044]	[,2045]	[,2046]	[,2047]
[1,]	"C"	"T"	"G"	"A"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
[2,]	"C"	"T"	"G"	"A"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
[3,]	"C"	"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,]	"C"	"T"	"G"	"A"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
[6,]	"C"	"T"	"G"	"G"	"A"	"C"	"C"	"A"	"C"	"T"	"G"	"C"	"A"
[1,]	[,2048]	[,2049]	[,2050]	[,2051]	[,2052]	[,2053]	[,2054]	[,2055]	[,2056]	[,2057]	[,2058]	[,2059]	[,2060]
[1,]	"C"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
[2,]	"C"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
[3,]	"C"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
[4,]	"C"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"A"	"T"	"C"	"A"	"G"
[5,]	"C"	"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"
[1,]	[,2061]	[,2062]	[,2063]	[,2064]	[,2065]	[,2066]	[,2067]	[,2068]	[,2069]	[,2070]	[,2071]	[,2072]	[,2073]
[1,]	"T"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
[2,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
[3,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
[4,]	"C"	"G"	"A"	"G"	"C"	"T"	"G"	"G"	"A"	"G"	"A"	"C"	"C"
[5,]	"T"	"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"
[1,]	[,2074]	[,2075]	[,2076]	[,2077]	[,2078]	[,2079]	[,2080]	[,2081]	[,2082]	[,2083]	[,2084]	[,2085]	[,2086]
[1,]	"A"	"A"	"T"	"G"	"T"	"C"							

	[,2139]	[,2140]	[,2141]	[,2142]	[,2143]	[,2144]	[,2145]	[,2146]	[,2147]	[,2148]	[,2149]	[,2150]	[,2151]
[1,]	"A"	"C"	"T"	"C"	"G"	"A"	"C"	"T"	"C"	"T"	"C"	"C"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"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]	[,2164]
[1,]	"A"	"C"	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"A"	"G"	"C"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"C"	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"A"	"G"	"C"	"A"
[4,]	"A"	"C"	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"A"	"G"	"C"	"A"
[5,]	"A"	"C"	"C"	"C"	"T"	"C"	"C"	"T"	"G"	"A"	"G"	"C"	"A"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2165]	[,2166]	[,2167]	[,2168]	[,2169]	[,2170]	[,2171]	[,2172]	[,2173]	[,2174]	[,2175]	[,2176]	[,2177]
[1,]	"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"	"G"	"G"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"C"
[5,]	"G"	"C"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"G"	"G"	"C"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2178]	[,2179]	[,2180]	[,2181]	[,2182]	[,2183]	[,2184]	[,2185]	[,2186]	[,2187]	[,2188]	[,2189]	[,2190]
[1,]	"A"	"G"	"G"	"A"	"T"	"C"	"A"	"C"	"A"	"C"	"A"	"T"	"T"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"G"	"G"	"A"	"T"	"C"	"A"	"C"	"T"	"C"	"A"	"T"	"T"
[4,]	"A"	"G"	"G"	"A"	"T"	"C"	"A"	"C"	"A"	"C"	"A"	"T"	"T"
[5,]	"A"	"G"	"G"	"A"	"T"	"C"	"A"	"C"	"A"	"C"	"A"	"T"	"T"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2191]	[,2192]	[,2193]	[,2194]	[,2195]	[,2196]	[,2197]	[,2198]	[,2199]	[,2200]	[,2201]	[,2202]	[,2203]
[1,]	"C"	"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,]	"C"	"T"	"T"	"C"	"T"	"C"	"A"	"C"	"C"	"C"	"T"	"T"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2204]	[,2205]	[,2206]	[,2207]	[,2208]	[,2209]	[,2210]	[,2211]	[,2212]	[,2213]	[,2214]	[,2215]	[,2216]
[1,]	"A"	"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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2217]	[,2218]	[,2219]	[,2220]	[,2221]	[,2222]	[,2223]	[,2224]	[,2225]	[,2226]	[,2227]	[,2228]	[,2229]
[1,]	"A"	"A"	"C"	"C"	"C"	"C"	"G"	"C"	"T"	"T"	"G"	"A"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"A"	"C"	"C"	"C"	"C"	"G"	"C"	"T"	"T"	"G"	"A"	"C"
[4,]	"A"	"A"	"C"	"C"	"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]	[,2242]
[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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2243]	[,2244]	[,2245]	[,2246]	[,2247]	[,2248]	[,2249]	[,2250]	[,2251]	[,2252]	[,2253]	[,2254]	[,2255]
[1,]	"C"	"A"	"G"	"A"	"G"	"A"	"A"	"G"	"G"	"G"	"A"	"A"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"A"	"G"	"A"	"G"	"A"	"A"	"A"	"G"	"G"	"A"	"A"	"A"
[4,]	"C"	"A"	"G"	"A"	"G"	"A"	"A"	"G"	"G"	"G"	"A"	"A"	"A"
[5,]	"C"	"A"	"G"	"A"	"G"	"A"	"A"	"G"	"G"	"G"	"A"	"A"	"A"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2256]	[,2257]	[,2258]	[,2259]	[,2260]	[,2261]	[,2262]	[,2263]	[,2264]	[,2265]	[,2266]	[,2267]	[,2268]
[1,]	"G"	"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"	"G"	"C"	"T"	"G"	"C"	"A"	"T"	"G"	"G"	"G"	"G"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2269]	[,2270]	[,2271]	[,2272]	[,2273]	[,2274]	[,2275]	[,2276]	[,2277]	[,2278]	[,2279]	[,2280]	[,2281]
[1,]	"A"	"C"	"C"	"C"	"C"	"C"	"A"	"T"	"C"	"T"	"A"	"G"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"G"	"C"	"C"	"C"	"C"	"A"	"A"	"C"	"C"	"A"	"G"	"G"
[4,]	"A"	"G"	"C"	"C"	"C"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"G"
[5,]	"A"	"G"	"C"	"C"	"C"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"G"

[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2282]	[,2283]	[,2284]	[,2285]	[,2286]	[,2287]	[,2288]	[,2289]	[,2290]	[,2291]	[,2292]	[,2293]	[,2294]
[1,]	"G"	"A"	"C"	"T"	"G"	"A"	"T"	"G"	"G"	"C"	"C"	"C"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"A"	"G"	"T"	"G"	"A"	"T"	"G"	"G"	"G"	"C"	"C"	"C"
[4,]	"G"	"A"	"G"	"T"	"G"	"A"	"T"	"G"	"G"	"G"	"C"	"C"	"C"
[5,]	"G"	"A"	"G"	"T"	"G"	"A"	"T"	"G"	"G"	"G"	"C"	"C"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2295]	[,2296]	[,2297]	[,2298]	[,2299]	[,2300]	[,2301]	[,2302]	[,2303]	[,2304]	[,2305]	[,2306]	[,2307]
[1,]	"G"	"G"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"T"	"G"	"A"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"G"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"C"	"G"	"A"	"G"
[4,]	"G"	"G"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"T"	"G"	"A"	"G"
[5,]	"G"	"G"	"C"	"A"	"T"	"T"	"G"	"C"	"C"	"T"	"G"	"A"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2308]	[,2309]	[,2310]	[,2311]	[,2312]	[,2313]	[,2314]	[,2315]	[,2316]	[,2317]	[,2318]	[,2319]	[,2320]
[1,]	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"T"	"G"	"A"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"C"	"C"	"C"	"T"	"G"	"C"	"T"	"G"	"T"	"G"	"A"	"C"
[4,]	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"T"	"G"	"A"	"C"
[5,]	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"T"	"G"	"T"	"G"	"A"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2321]	[,2322]	[,2323]	[,2324]	[,2325]	[,2326]	[,2327]	[,2328]	[,2329]	[,2330]	[,2331]	[,2332]	[,2333]
[1,]	"A"	"G"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"G"	"G"	"T"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"G"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"G"	"G"	"T"	"G"
[4,]	"A"	"G"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"G"	"G"	"T"	"G"
[5,]	"A"	"G"	"T"	"T"	"T"	"C"	"C"	"C"	"C"	"G"	"G"	"T"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2334]	[,2335]	[,2336]	[,2337]	[,2338]	[,2339]	[,2340]	[,2341]	[,2342]	[,2343]	[,2344]	[,2345]	[,2346]
[1,]	"T"	"G"	"A"	"G"	"C"	"C"	"C"	"G"	"G"	"T"	"G"	"A"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"T"	"G"	"A"	"G"	"C"	"C"	"C"	"G"	"G"	"T"	"G"	"A"	"G"
[4,]	"T"	"G"	"A"	"G"	"C"	"C"	"C"	"G"	"G"	"T"	"G"	"A"	"G"
[5,]	"T"	"G"	"A"	"G"	"C"	"C"	"C"	"G"	"G"	"T"	"G"	"A"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2347]	[,2348]	[,2349]	[,2350]	[,2351]	[,2352]	[,2353]	[,2354]	[,2355]	[,2356]	[,2357]	[,2358]	[,2359]
[1,]	"G"	"G"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"A"	"G"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"G"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"A"	"G"	"G"
[4,]	"G"	"G"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"A"	"G"	"G"
[5,]	"G"	"G"	"C"	"G"	"G"	"C"	"A"	"G"	"G"	"C"	"A"	"G"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2360]	[,2361]	[,2362]	[,2363]	[,2364]	[,2365]	[,2366]	[,2367]	[,2368]	[,2369]	[,2370]	[,2371]	[,2372]
[1,]	"G"	"G"	"T"	"T"	"A"	"T"	"C"	"C"	"G"	"G"	"C"	"C"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"G"	"T"	"T"	"A"	"T"	"C"	"C"	"G"	"G"	"C"	"C"	"C"
[4,]	"G"	"G"	"T"	"T"	"A"	"T"	"C"	"C"	"G"	"G"	"C"	"C"	"C"
[5,]	"G"	"G"	"T"	"T"	"A"	"T"	"C"	"T"	"G"	"G"	"C"	"C"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2373]	[,2374]	[,2375]	[,2376]	[,2377]	[,2378]	[,2379]	[,2380]	[,2381]	[,2382]	[,2383]	[,2384]	[,2385]
[1,]	"C"	"A"	"C"	"T"	"T"	"T"	"C"	"T"	"G"	"G"	"A"	"T"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"A"	"C"	"T"	"T"	"T"	"C"	"T"	"G"	"G"	"A"	"T"	"G"
[4,]	"C"	"A"	"C"	"T"	"T"	"T"	"C"	"T"	"G"	"G"	"A"	"T"	"G"
[5,]	"C"	"A"	"C"	"T"	"T"	"T"	"C"	"T"	"G"	"G"	"A"	"T"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2386]	[,2387]	[,2388]	[,2389]	[,2390]	[,2391]	[,2392]	[,2393]	[,2394]	[,2395]	[,2396]	[,2397]	[,2398]
[1,]	"A"	"C"	"A"	"G"	"A"	"C"	"T"	"T"	"G"	"A"	"G"	"G"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"C"	"A"	"G"	"A"	"C"	"T"	"T"	"G"	"A"	"G"	"G"	"C"
[4,]	"A"	"C"	"A"	"G"	"A"	"C"	"T"	"T"	"G"	"A"	"G"	"G"	"C"
[5,]	"A"	"C"	"A"	"G"	"A"	"C"	"T"	"T"	"G"	"A"	"G"	"G"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2399]	[,2400]	[,2401]	[,2402]	[,2403]	[,2404]	[,2405]	[,2406]	[,2407]	[,2408]	[,2409]	[,2410]	[,2411]
[1,]	"T"	"C"	"T"	"G"	"A"	"G"	"A"	"G"	"C"	"T"	"G"	"A"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"C"	"T"	"G"	"A"	"G"	"A"	"G"	"C"	"T"	"G"	"A"	"A"
[4,]	"T"	"C"	"T"	"G"	"A"	"G"	"A"	"G"	"C"	"T"	"G"	"A"	"A"
[5,]	"T"	"C"	"T"	"G"	"A"	"G"	"A"	"G"	"C"	"T"	"G"	"A"	"A"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2412]	[,2413]	[,2414]	[,2415]	[,2416]	[,2417]	[,2418]	[,2419]	[,2420]	[,2421]	[,2422]	[,2423]	[,2424]
[1,]	"A"	"A"	"C"	"A"	"C"	"T"	"T"	"G"	"T"	"C"	"C"	"A"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"A"	"C"	"A"	"C"	"T"	"T"	"G"	"T"	"C"	"C"	"A"	"A"
[4,]	"A"	"A"	"C"	"A"	"C"	"T"	"T"	"G"	"T"	"C"	"C"	"A"	"A"

[5,]	"A"	"A"	"C"	"A"	"C"	"T"	"T"	"G"	"T"	"C"	"C"	"A"	"A"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2425]	[,2426]	[,2427]	[,2428]	[,2429]	[,2430]	[,2431]	[,2432]	[,2433]	[,2434]	[,2435]	[,2436]	[,2437]
[1,]	"G"	"G"	"T"	"C"	"T"	"C"	"A"	"C"	"G"	"T"	"T"	"A"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"G"	"T"	"C"	"T"	"C"	"A"	"C"	"G"	"T"	"T"	"A"	"A"
[4,]	"G"	"G"	"T"	"C"	"T"	"C"	"A"	"C"	"G"	"T"	"T"	"A"	"A"
[5,]	"G"	"G"	"T"	"C"	"T"	"C"	"A"	"C"	"G"	"T"	"T"	"A"	"A"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2438]	[,2439]	[,2440]	[,2441]	[,2442]	[,2443]	[,2444]	[,2445]	[,2446]	[,2447]	[,2448]	[,2449]	[,2450]
[1,]	"G"	"G"	"T"	"C"	"A"	"A"	"G"	"A"	"C"	"A"	"C"	"T"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2451]	[,2452]	[,2453]	[,2454]	[,2455]	[,2456]	[,2457]	[,2458]	[,2459]	[,2460]	[,2461]	[,2462]	[,2463]
[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"	"C"	"T"	"C"	"A"	"A"	"A"	"T"	"C"	"T"	"T"	"T"	"C"
[5,]	"A"	"C"	"T"	"C"	"A"	"A"	"A"	"T"	"C"	"T"	"T"	"T"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2464]	[,2465]	[,2466]	[,2467]	[,2468]	[,2469]	[,2470]	[,2471]	[,2472]	[,2473]	[,2474]	[,2475]	[,2476]
[1,]	"A"	"A"	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"C"	"T"	"C"	"T"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"A"	"G"	"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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2477]	[,2478]	[,2479]	[,2480]	[,2481]	[,2482]	[,2483]	[,2484]	[,2485]	[,2486]	[,2487]	[,2488]	[,2489]
[1,]	"C"	"C"	"T"	"C"	"T"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"C"	"A"	"C"	"T"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"C"
[4,]	"C"	"C"	"T"	"C"	"T"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"C"
[5,]	"C"	"C"	"T"	"C"	"T"	"T"	"G"	"G"	"A"	"G"	"G"	"A"	"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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"G"	"G"	"G"	"C"	"A"	"G"	"C"	"C"	"T"	"G"	"C"	"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]	[,2504]	[,2505]	[,2506]	[,2507]	[,2508]	[,2509]	[,2510]	[,2511]	[,2512]	[,2513]	[,2514]	[,2515]
[1,]	"G"	"C"	"T"	"G"	"T"	"G"	"T"	"C"	"C"	"A"	"G"	"G"	"C"
[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"	"C"	"T"	"G"	"T"	"G"	"T"	"C"	"C"	"A"	"G"	"G"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2516]	[,2517]	[,2518]	[,2519]	[,2520]	[,2521]	[,2522]	[,2523]	[,2524]	[,2525]	[,2526]	[,2527]	[,2528]
[1,]	"C"	"C"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"_"	"A"	"C"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"C"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"A"	"A"	"C"	"C"
[4,]	"C"	"C"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"_"	"A"	"C"	"C"
[5,]	"C"	"C"	"A"	"G"	"G"	"C"	"C"	"C"	"C"	"_"	"A"	"C"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2529]	[,2530]	[,2531]	[,2532]	[,2533]	[,2534]	[,2535]	[,2536]	[,2537]	[,2538]	[,2539]	[,2540]	[,2541]
[1,]	"C"	"C"	"A"	"T"	"A"	"A"	"C"	"A"	"G"	"G"	"T"	"G"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[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]	[,2544]	[,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"	"C"	"A"	"G"	"C"	"C"	"A"	"C"	"A"	"T"	"A"
[4,]	"C"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"A"	"C"	"A"	"C"	"A"
[5,]	"C"	"C"	"T"	"C"	"A"	"G"	"C"	"C"	"A"	"C"	"A"	"C"	"A"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2555]	[,2556]	[,2557]	[,2558]	[,2559]	[,2560]	[,2561]	[,2562]	[,2563]	[,2564]	[,2565]	[,2566]	[,2567]
[1,]	"G"	"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"	"T"	"T"	"C"	"T"	"C"	"C"	"C"	"C"	"A"	"A"	"G"	"G"
[5,]	"G"	"T"	"T"	"C"	"T"	"C"	"C"	"C"	"C"	"A"	"A"	"G"	"G"
[6,]	_	_	_	_	_	_	_	_	_	_	_	_	_
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[2,]	"G"	"G"	"A"	"G"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"G"
[3,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[4,]	"G"	"G"	"A"	"G"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"G"
[5,]	"G"	"G"	"A"	"G"	"C"	"A"	"G"	"C"	"C"	"C"	"A"	"G"	"G"
[6,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[1,]	[,2581]	[,2582]	[,2583]	[,2584]	[,2585]	[,2586]	[,2587]	[,2588]	[,2589]	[,2590]	[,2591]	[,2592]	[,2593]
[2,]	"G"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"T"
[3,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[4,]	"G"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"T"
[5,]	"G"	"C"	"C"	"A"	"A"	"G"	"C"	"C"	"C"	"C"	"G"	"C"	"T"
[6,]	_	_	_	_	_	_	_	_	_	_	_	_	_
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[2,]	"G"	"C"	"C"	"T"	"T"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[3,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[4,]	"G"	"C"	"C"	"T"	"T"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[5,]	"G"	"C"	"C"	"T"	"T"	"C"	"C"	"C"	"C"	"A"	"G"	"G"	"C"
[6,]	_	_	_	_	_	_	_	_	_	_	_	_	_
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[2,]	"C"	"A"	"C"	"A"	"G"	"T"	"G"	"C"	"G"	"T"	"C"	"C"	"A"
[3,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[4,]	"C"	"A"	"C"	"A"	"G"	"T"	"G"	"C"	"G"	"T"	"C"	"C"	"A"
[5,]	"C"	"A"	"C"	"A"	"G"	"T"	"G"	"C"	"G"	"T"	"C"	"C"	"A"
[6,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[1,]	[,2620]	[,2621]	[,2622]	[,2623]	[,2624]	[,2625]	[,2626]	[,2627]	[,2628]	[,2629]	[,2630]	[,2631]	[,2632]
[2,]	"G"	"T"	"C"	"T"	"C"	"C"	"T"	"G"	"T"	"C"	"C"	"T"	"G"
[3,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[4,]	"G"	"T"	"C"	"T"	"C"	"C"	"T"	"G"	"T"	"C"	"C"	"T"	"G"
[5,]	"G"	"T"	"G"	"T"	"C"	"C"	"T"	"G"	"T"	"C"	"C"	"T"	"G"
[6,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[1,]	[,2633]	[,2634]	[,2635]	[,2636]	[,2637]	[,2638]	[,2639]	[,2640]	[,2641]	[,2642]	[,2643]	[,2644]	[,2645]
[2,]	"C"	"C"	"A"	"C"	"G"	"T"	"G"	"T"	"C"	"T"	"T"	"T"	"T"
[3,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[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,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[1,]	[,2646]	[,2647]	[,2648]	[,2649]	[,2650]	[,2651]	[,2652]	[,2653]	[,2654]	[,2655]	[,2656]	[,2657]	[,2658]
[2,]	"G"	"C"	"A"	"A"	"A"	"G"	"C"	"T"	"C"	"C"	"T"	"G"	"G"
[3,]	_	_	_	_	_	_	_	_	_	_	_	_	_
[4,]	"G"	"C"	"A"	"A"	"A"	"G"	"C"	"T"	"C"	"C"	"T"	"G"	"G"
[5,]	"G"	"C"	"A"	"A"	"A"	"G"	"C"	"T"	"C"	"C"	"T"	"G"	"G"</

[3,]	"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]	[,2713]	[,2714]	[,2715]	[,2716]	[,2717]	[,2718]	[,2719]	[,2720]	[,2721]	[,2722]	[,2723]
[1,]	"A"	"G"	"G"	"C"	"A"	"A"	"C"	"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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2724]	[,2725]	[,2726]	[,2727]	[,2728]	[,2729]	[,2730]	[,2731]	[,2732]	[,2733]	[,2734]	[,2735]	[,2736]
[1,]	"A"	"T"	"G"	"G"	"A"	"A"	"T"	"A"	"G"	"G"	"T"	"A"	"G"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"A"	"C"	"G"	"G"	"G"	"A"	"T"	"A"	"G"	"G"	"T"	"A"	"G"
[4,]	"A"	"T"	"G"	"G"	"A"	"A"	"T"	"A"	"G"	"G"	"T"	"A"	"G"
[5,]	"A"	"T"	"G"	"G"	"A"	"A"	"T"	"A"	"G"	"G"	"T"	"A"	"G"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2737]	[,2738]	[,2739]	[,2740]	[,2741]	[,2742]	[,2743]	[,2744]	[,2745]	[,2746]	[,2747]	[,2748]	[,2749]
[1,]	"G"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"	"G"	"A"	"C"	"T"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"C"	"A"	"A"	"G"	"C"	"C"	"A"	"G"	"G"	"A"	"C"	"T"
[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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
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[1,]	"C"	"C"	"G"	"G"	"G"	"A"	"A"	"G"	"G"	"A"	"G"	"G"	"T"
[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]	[,2765]	[,2766]	[,2767]	[,2768]	[,2769]	[,2770]	[,2771]	[,2772]	[,2773]	[,2774]	[,2775]
[1,]	"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,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2776]	[,2777]	[,2778]	[,2779]	[,2780]	[,2781]	[,2782]	[,2783]	[,2784]	[,2785]	[,2786]	[,2787]	[,2788]
[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]	[,2790]	[,2791]	[,2792]	[,2793]	[,2794]	[,2795]	[,2796]	[,2797]	[,2798]	[,2799]	[,2800]	[,2801]
[1,]	"C"	"C"	"G"	"A"	"T"	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"T"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"C"	"G"	"A"	"T"	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"T"
[4,]	"C"	"C"	"G"	"A"	"T"	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"T"
[5,]	"C"	"C"	"G"	"A"	"T"	"G"	"G"	"G"	"G"	"C"	"C"	"C"	"T"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
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[1,]	"G"	"G"	"T"	"G"	"T"	"C"	"A"	"G"	"A"	"A"	"C"	"T"	"C"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"G"	"T"	"G"	"T"	"C"	"A"	"G"	"A"	"A"	"C"	"T"	"C"
[4,]	"G"	"G"	"T"	"G"	"T"	"C"	"A"	"G"	"A"	"A"	"C"	"T"	"C"
[5,]	"G"	"G"	"T"	"G"	"T"	"C"	"A"	"G"	"A"	"A"	"C"	"T"	"C"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
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[1,]	"C"	"C"	"C"	"A"	"A"	"A"	"G"	"G"	"C"	"C"	"T"	"G"	"T"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"C"	"C"	"C"	"A"	"A"	"A"	"G"	"G"	"C"	"C"	"T"	"G"	"T"
[4,]	"C"	"C"	"C"	"A"	"A"	"A"	"G"	"G"	"C"	"C"	"T"	"G"	"T"
[5,]	"C"	"C"	"C"	"A"	"A"	"A"	"G"	"G"	"C"	"C"	"T"	"G"	"T"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2828]	[,2829]	[,2830]	[,2831]	[,2832]	[,2833]	[,2834]	[,2835]	[,2836]	[,2837]	[,2838]	[,2839]	[,2840]
[1,]	"G"	"C"	"G"	"T"	"C"	"C"	"A"	"A"	"G"	"T"	"G"	"G"	"A"
[2,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
[3,]	"G"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"G"	"T"	"G"	"G"	"A"
[4,]	"G"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"G"	"T"	"G"	"G"	"A"
[5,]	"G"	"C"	"A"	"T"	"C"	"C"	"A"	"G"	"G"	"T"	"G"	"G"	"A"
[6,]	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"	"_"
	[,2841]	[,2842]	[,2843]	[,2844]	[,2845]	[,2846]	[,2847]	[,2848]	[,2849]	[,2850]	[,2851]	[,2852]	[,2853]
[1,]	"G"	"T"	"C"	"A"	"G"	"G"	"T"	"T"	"T"	"T"	"C"	"T"	"A"

```

[2,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
[3,] "G"      "T"      "C"      "A"      "G"      "G"      "T"      "T"      "T"      "T"      "C"      "T"      "G"
[4,] "G"      "T"      "C"      "A"      "G"      "G"      "T"      "T"      "T"      "T"      "C"      "T"      "A"
[5,] "G"      "T"      "C"      "A"      "G"      "G"      "T"      "T"      "T"      "T"      "C"      "T"      "A"
[6,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
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[1,] "T"      "T"      "C"      "C"      "T"      "T"      "T"      "C"      "T"      "G"      "T"      "G"      "T"
[2,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
[3,] "T"      "T"      "C"      "C"      "T"      "T"      "T"      "C"      "T"      "G"      "T"      "G"      "T"
[4,] "T"      "T"      "C"      "C"      "T"      "T"      "T"      "C"      "T"      "G"      "T"      "G"      "T"
[5,] "T"      "T"      "C"      "C"      "T"      "T"      "T"      "C"      "T"      "G"      "T"      "G"      "T"
[6,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
      [,2867] [,2868] [,2869] [,2870] [,2871] [,2872] [,2873] [,2874] [,2875] [,2876] [,2877] [,2878] [,2879]
[1,] "T"      "T"      "G"      "C"      "A"      "A"      "A"      "T"      "T"      "C"      "A"      "G"      "T"
[2,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
[3,] "T"      "T"      "G"      "C"      "A"      "A"      "A"      "T"      "T"      "C"      "A"      "G"      "T"
[4,] "T"      "T"      "G"      "C"      "A"      "A"      "A"      "T"      "T"      "C"      "A"      "G"      "T"
[5,] "T"      "T"      "G"      "C"      "A"      "A"      "A"      "T"      "T"      "C"      "A"      "G"      "T"
[6,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
      [,2880] [,2881] [,2882] [,2883] [,2884] [,2885] [,2886] [,2887] [,2888] [,2889] [,2890] [,2891] [,2892]
[1,] "G"      "T"      "T"      "A"      "A"      "C"      "T"      "A"      "A"      "A"      "T"      "A"      "A"
[2,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
[3,] "G"      "T"      "T"      "A"      "A"      "C"      "T"      "A"      "A"      "A"      "T"      "A"      "A"
[4,] "G"      "T"      "T"      "A"      "A"      "C"      "T"      "A"      "A"      "A"      "T"      "A"      "A"
[5,] "G"      "T"      "T"      "A"      "A"      "C"      "T"      "A"      "A"      "A"      "T"      "A"      "A"
[6,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
      [,2893] [,2894] [,2895] [,2896] [,2897] [,2898] [,2899] [,2900] [,2901] [,2902] [,2903] [,2904] [,2905]
[1,] "A"      "G"      "G"      "T"      "A"      "T"      "T"      "T"      "T"      "G"      "T"      "T"      "T"
[2,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
[3,] "A"      "G"      "G"      "T"      "A"      "T"      "T"      "T"      "T"      "G"      "T"      "T"      "T"
[4,] "A"      "G"      "G"      "T"      "A"      "T"      "T"      "T"      "T"      "G"      "T"      "T"      "T"
[5,] "A"      "G"      "G"      "T"      "A"      "T"      "T"      "T"      "T"      "G"      "T"      "T"      "T"
[6,] "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"      "-"
      [,2906] [,2907] [,2908] [,2909]
[1,] "T"      "T"      "C"      "A"
[2,] "-"      "-"      "-"      "-"
[3,] "T"      "T"      "C"      "A"
[4,] "T"      "T"      "C"      "A"
[5,] "T"      "T"      "C"      "A"
[6,] "-"      "-"      "-"      "-"
> # Compute the SFS
> SFS <- compute_SFS(alignment)
>
> # Output the SFS
> print(SFS)
[1] 41 37 1001 203 1622
>
> # The function for computing TajimasD values
> TajimasD <- function(sfs){
+   #For the computed SFS
+   n <- length(sfs) + 1
+   ss <- sum(sfs)
+
+   a1 <- 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 <- 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

```

