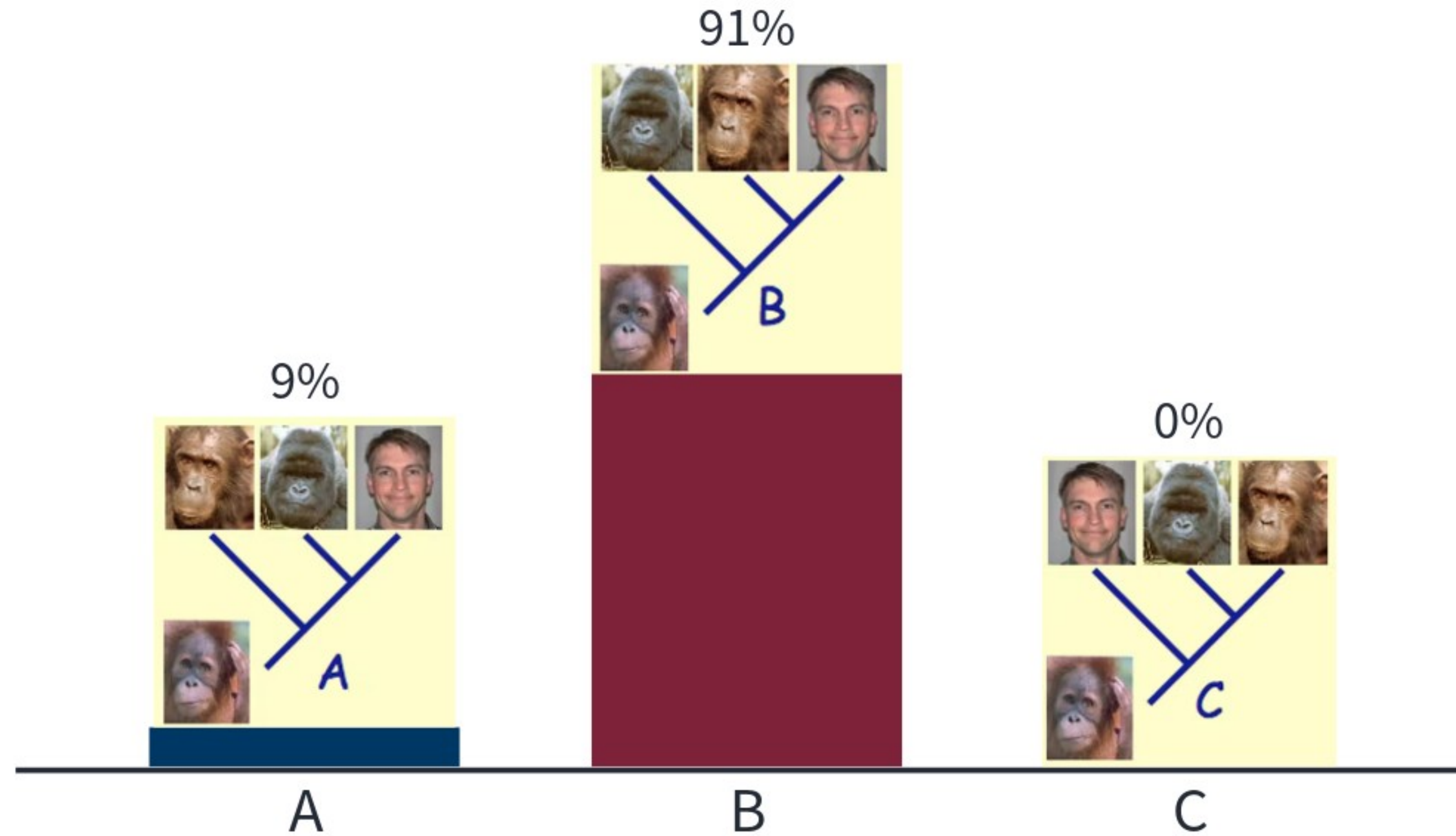


# Which phylogeny do you think is true?





# Are there any patterns in the sequence alignment

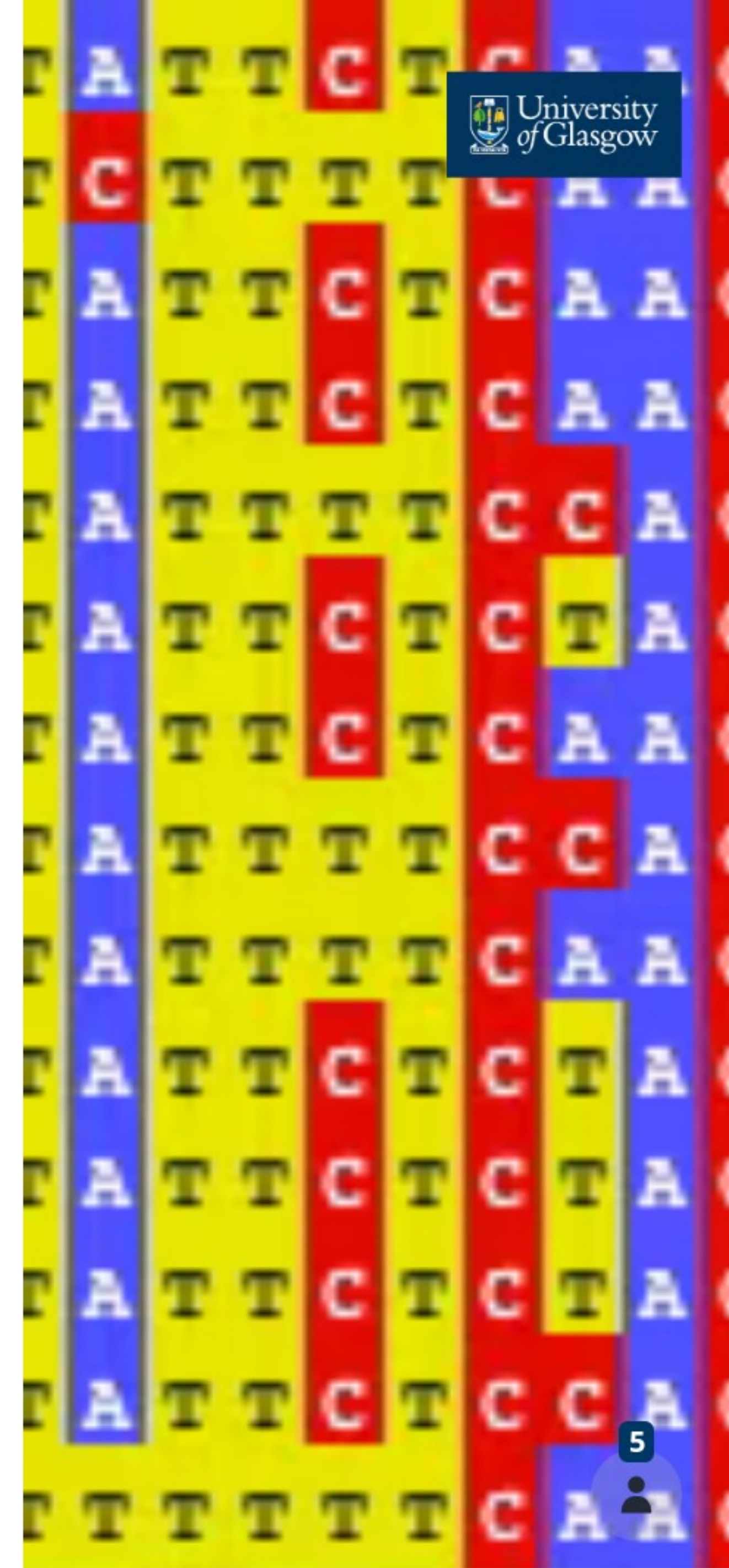
we have different species , hence different DNA pattern

To do with protein coding - 3 bases per amino acid

all have the same 6 amino acids

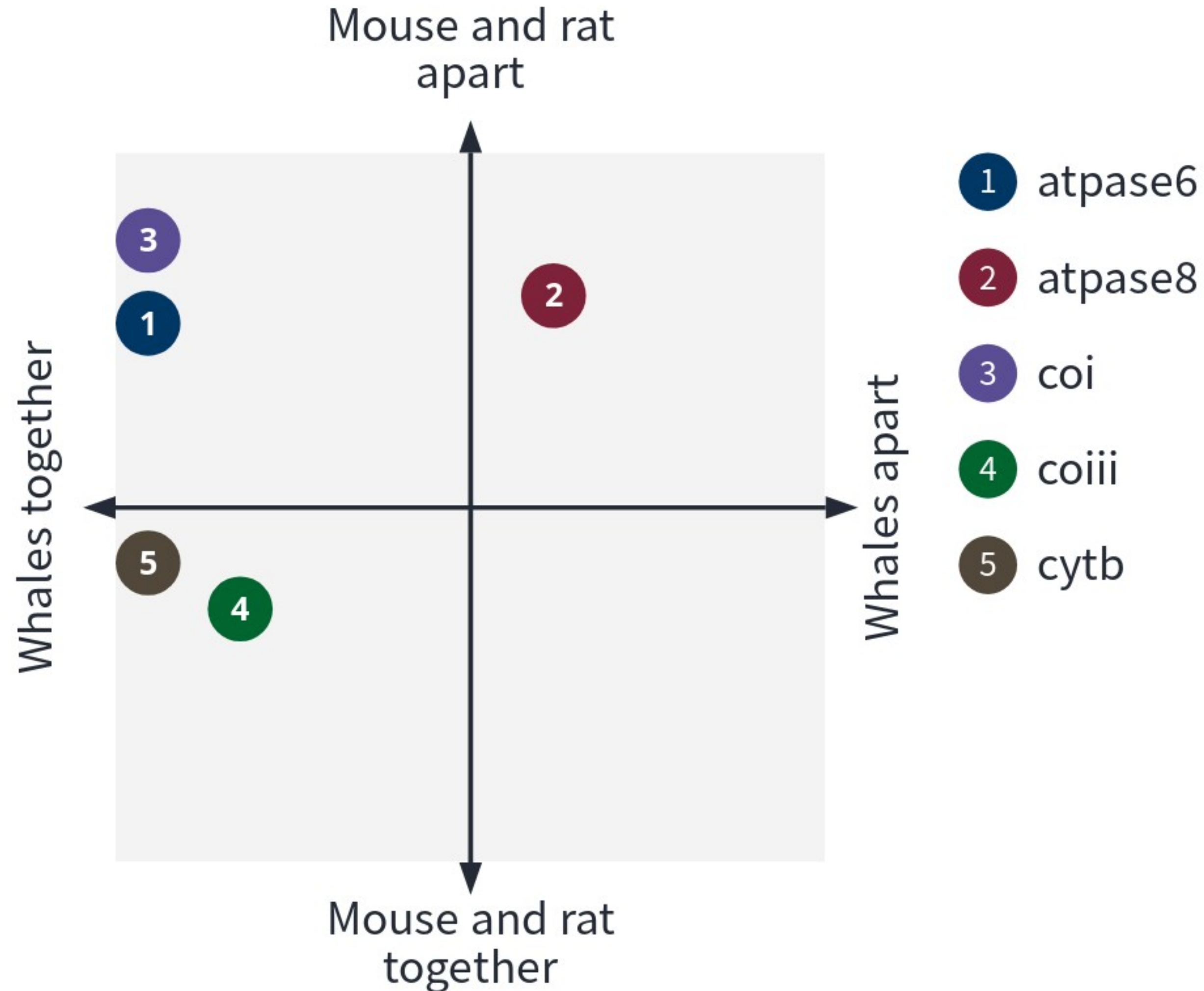
The first five columns are the exact same for all, which is the longest column of identical nucleotides

There are different species but there are the highly conserved regions of the DNA sequence that makes them look the not changing on the whole genome sequence.





# Place the tree for each gene on the grid below



# Why does ATPAS8 look so different to the other genes?

The rate of evolution for this gene is not the same between species

more susceptible to mutation

human error when entering data