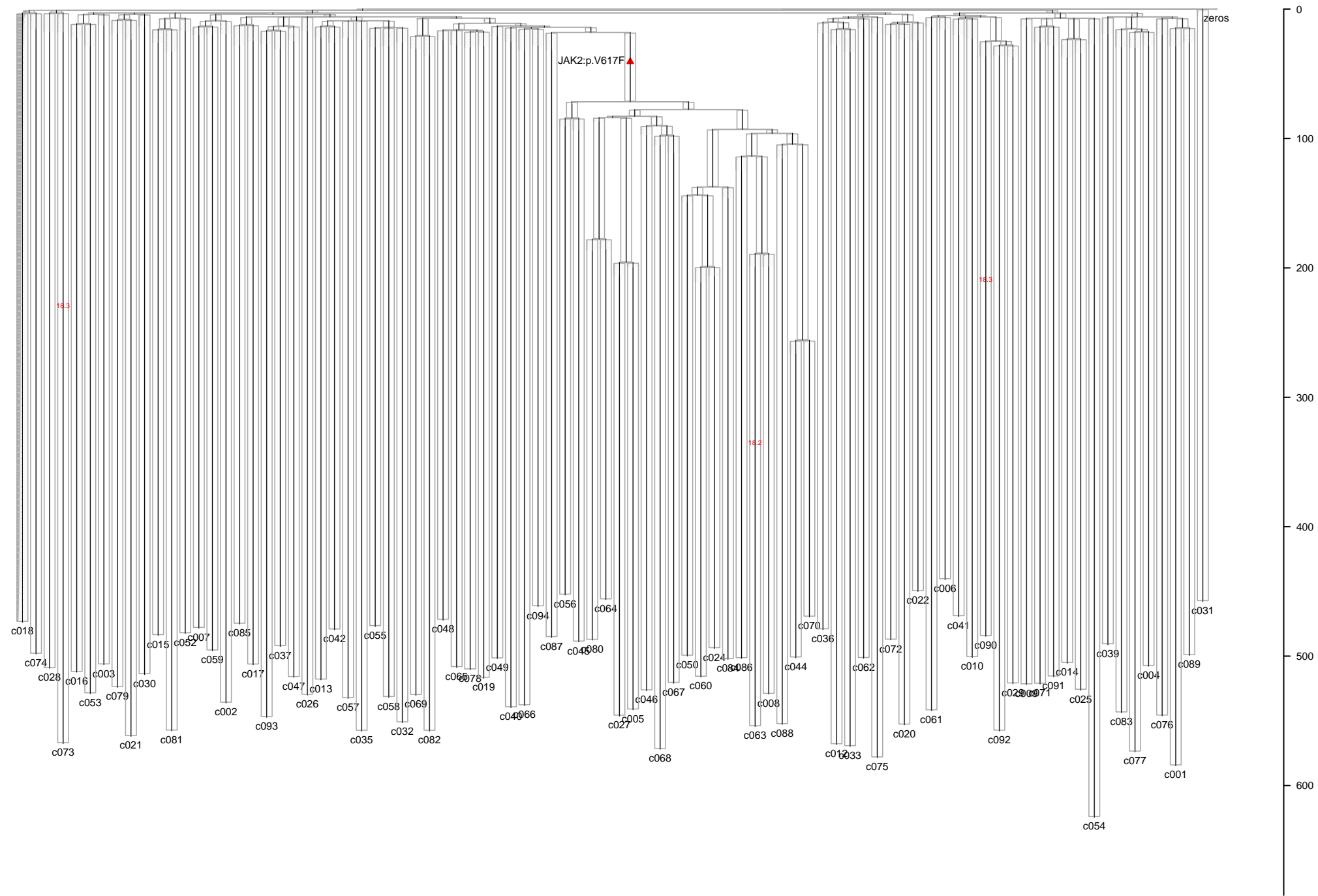
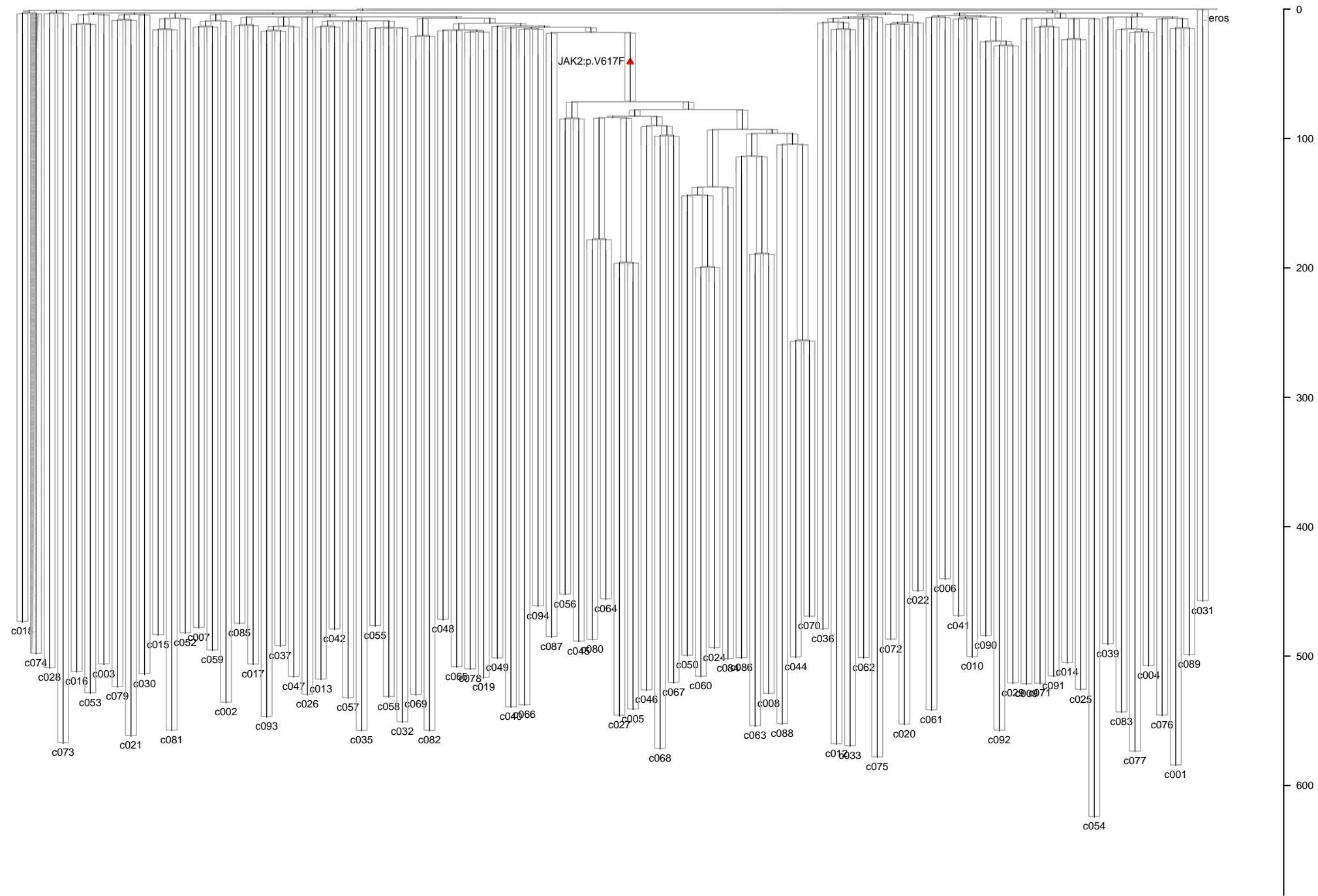


## Tree By Colony Quality Assessment

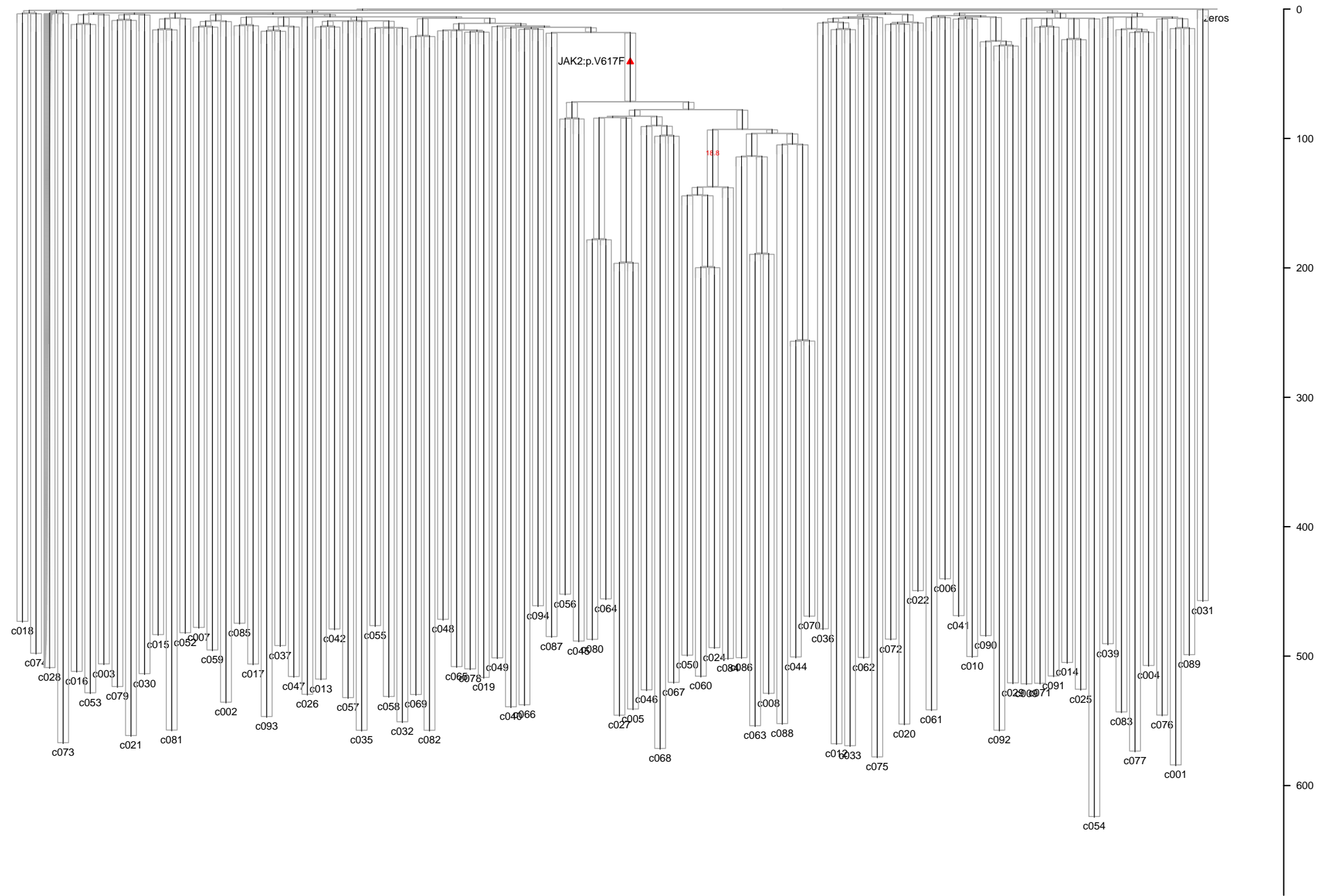
This file reports the VAF distribution of the variants assigned to each branch on a per colony basis. This allows one to 'walk through' the trees on a per colony basis to visualise both the branch placement and VAF of all the variants present in that single colony with respect to the rest of the tree. This is particularly helpful to ensure that variants belonging to a single colony are not found in non-ancestral branches whilst also allowing one to assess if other branches in the tree suffer from a lack of sensitivity for picking up specific variants. The report includes all colonies - including those that are dropped from the final tree and also some additional samples of interest. For colonies that are in the final tree it is expected that the VAFs will be clonal on branches that are ancestral to the colony of interest and zero for those that are not ancestral. Branches are highlighted if they show significant deviation from this expectation ( $VAF < 0.35$  and  $VAF > 0.05$ ; Binomial test on aggregate mutant read count and aggregate depth; blue  $p < 0.05$  and red  $p < 0.05/\text{number of branches}$ ). Branches where the depth is significantly lower than the depth of variants across the whole tree are annotated with the branch depth shown in red.



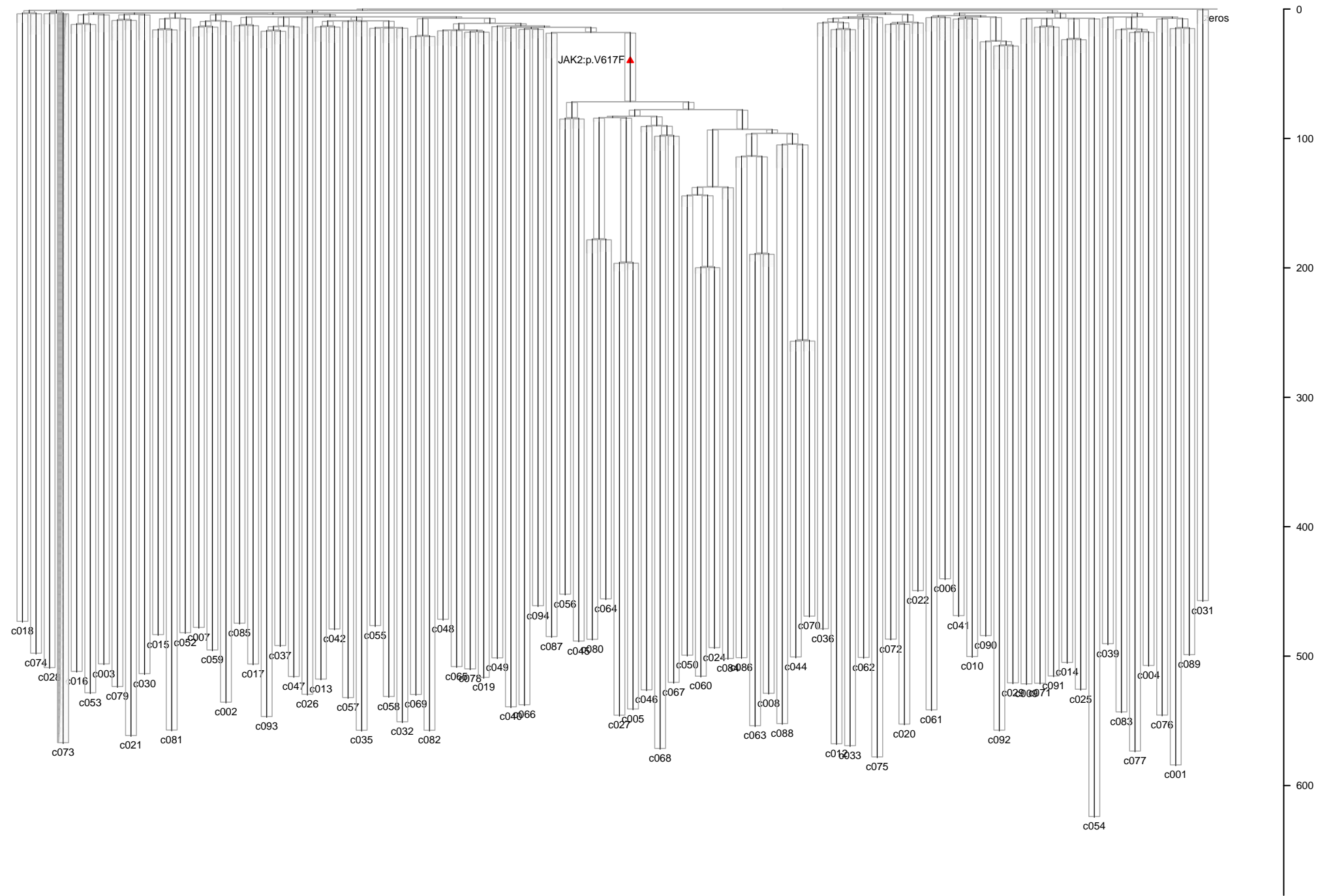
PD7271: Annotated with VAF from c07  
Mean Depth=21.25

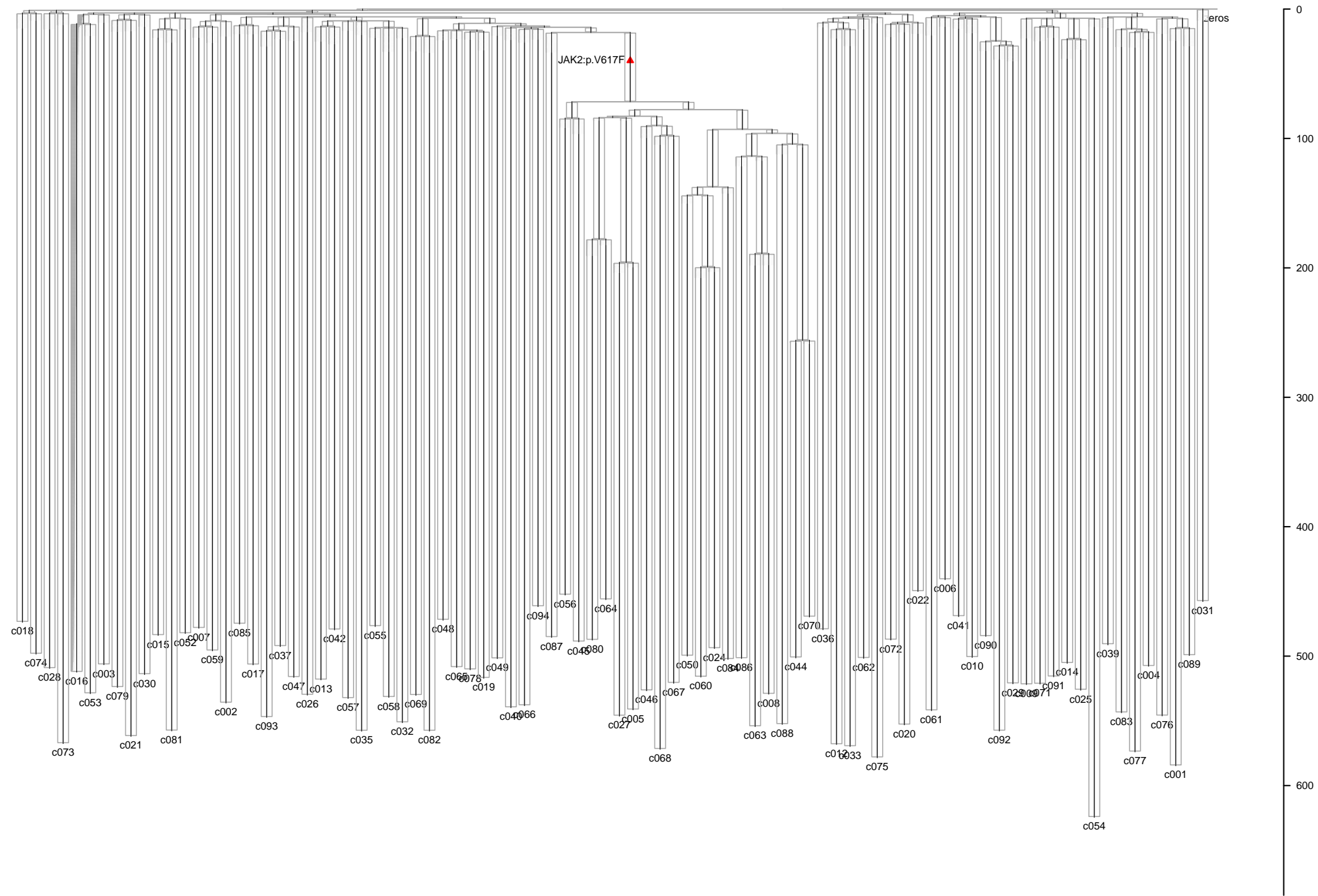


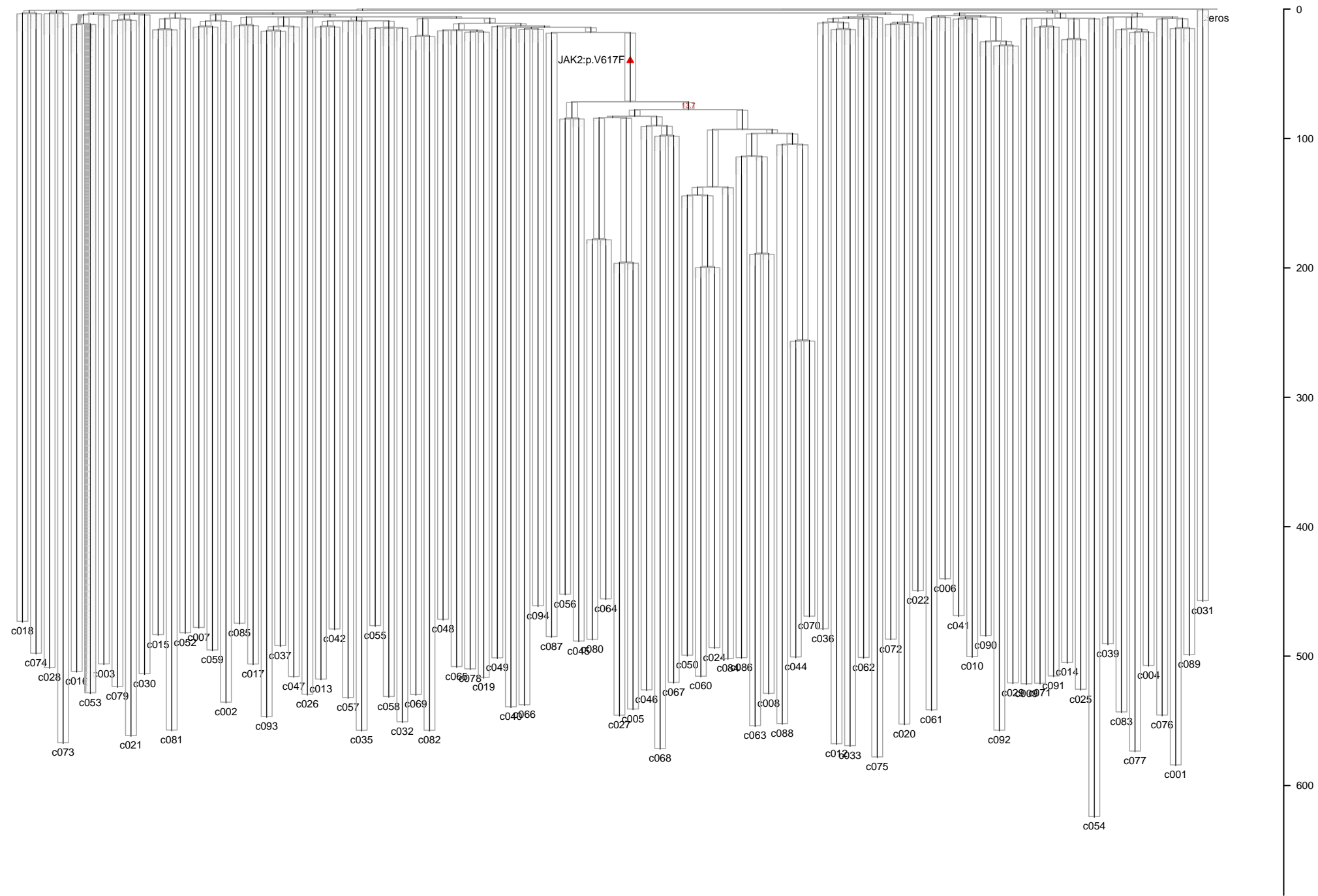
PD7271: Annotated with VAF from c028  
Mean Depth=20.56



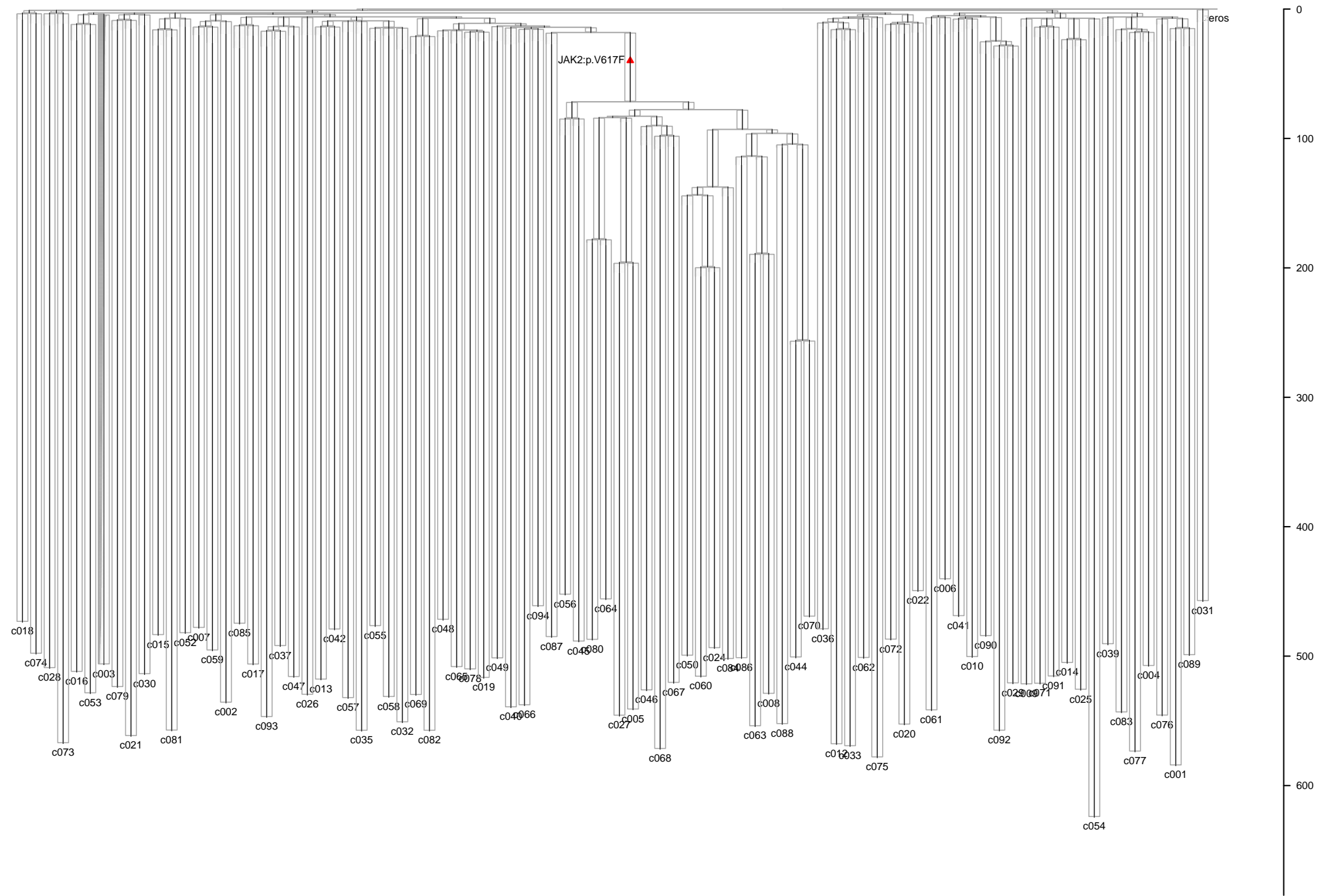
PD7271: Annotated with VAF from c07  
Mean Depth=18.00





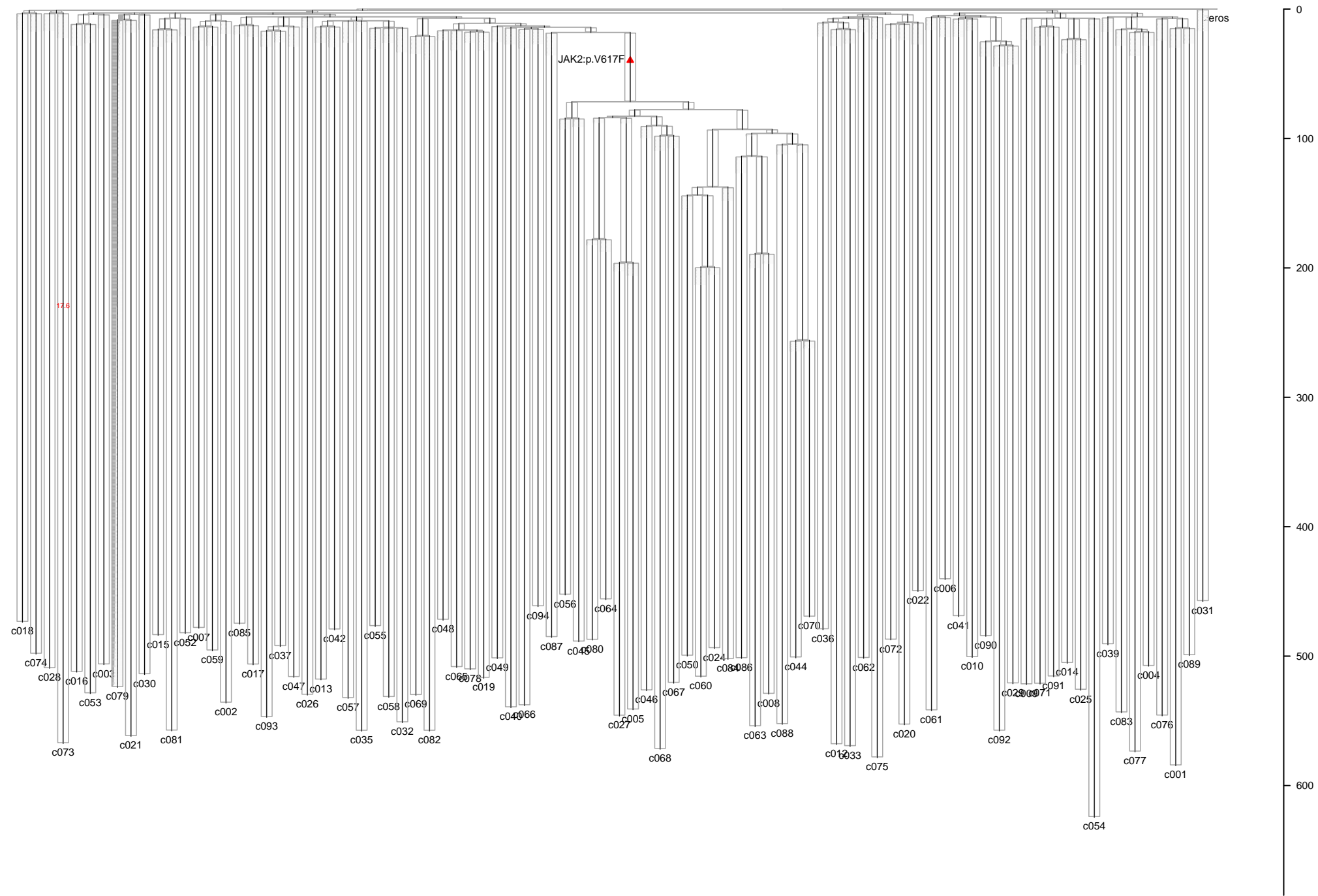


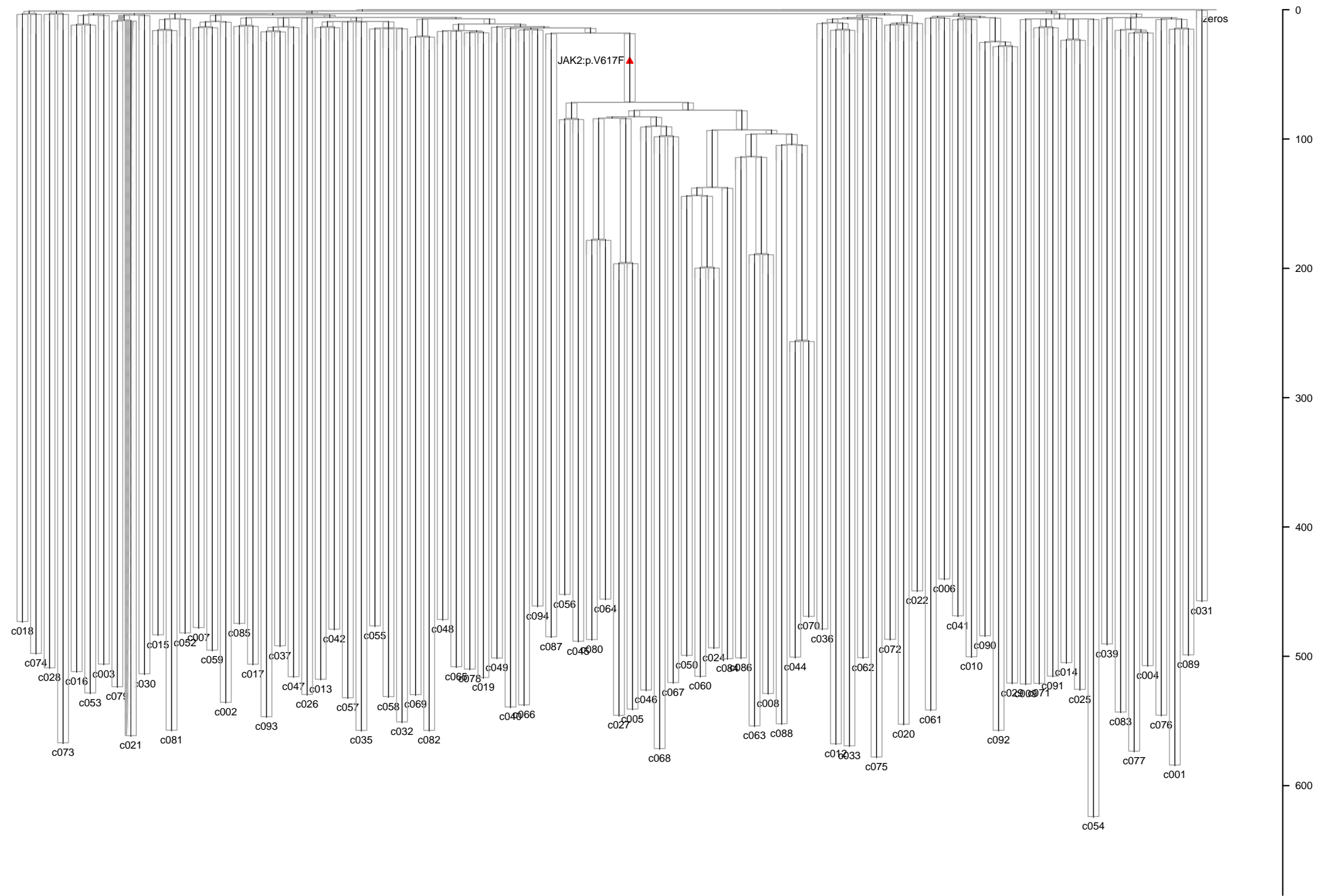
PD7271: Annotated with VAF from c00  
Mean Depth=20.14



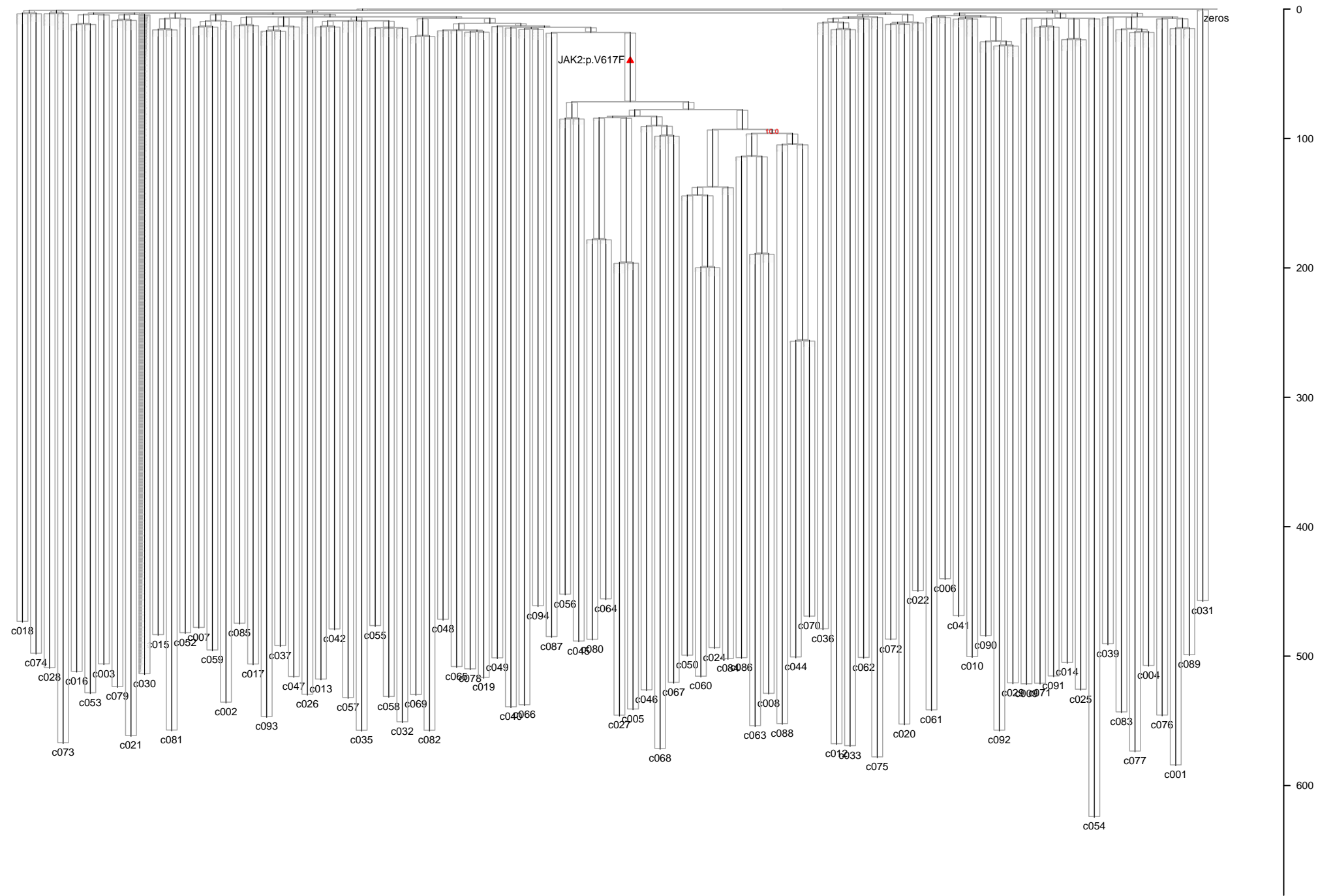


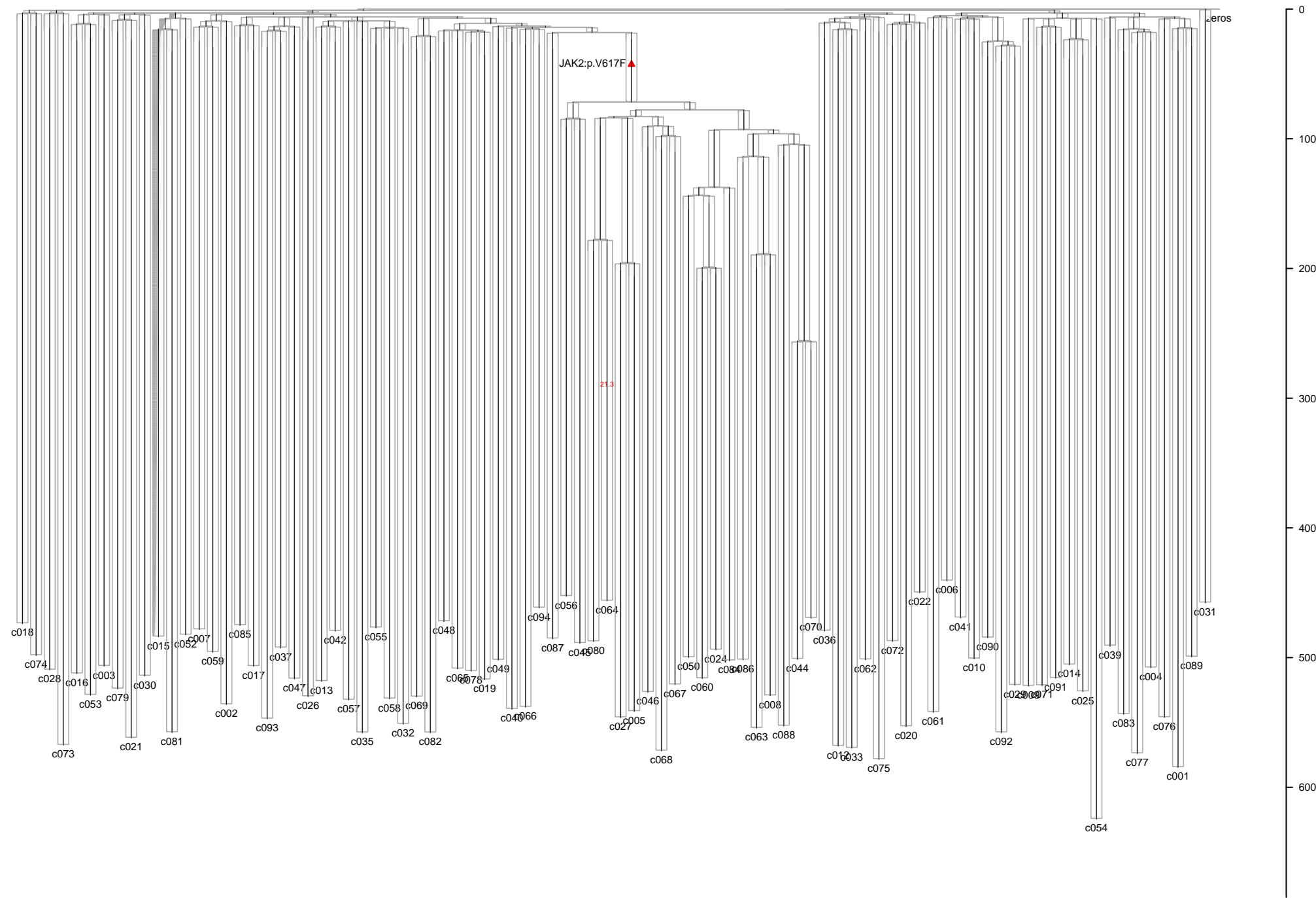
PD7271: Annotated with VAF from c07  
Mean Depth=18.12

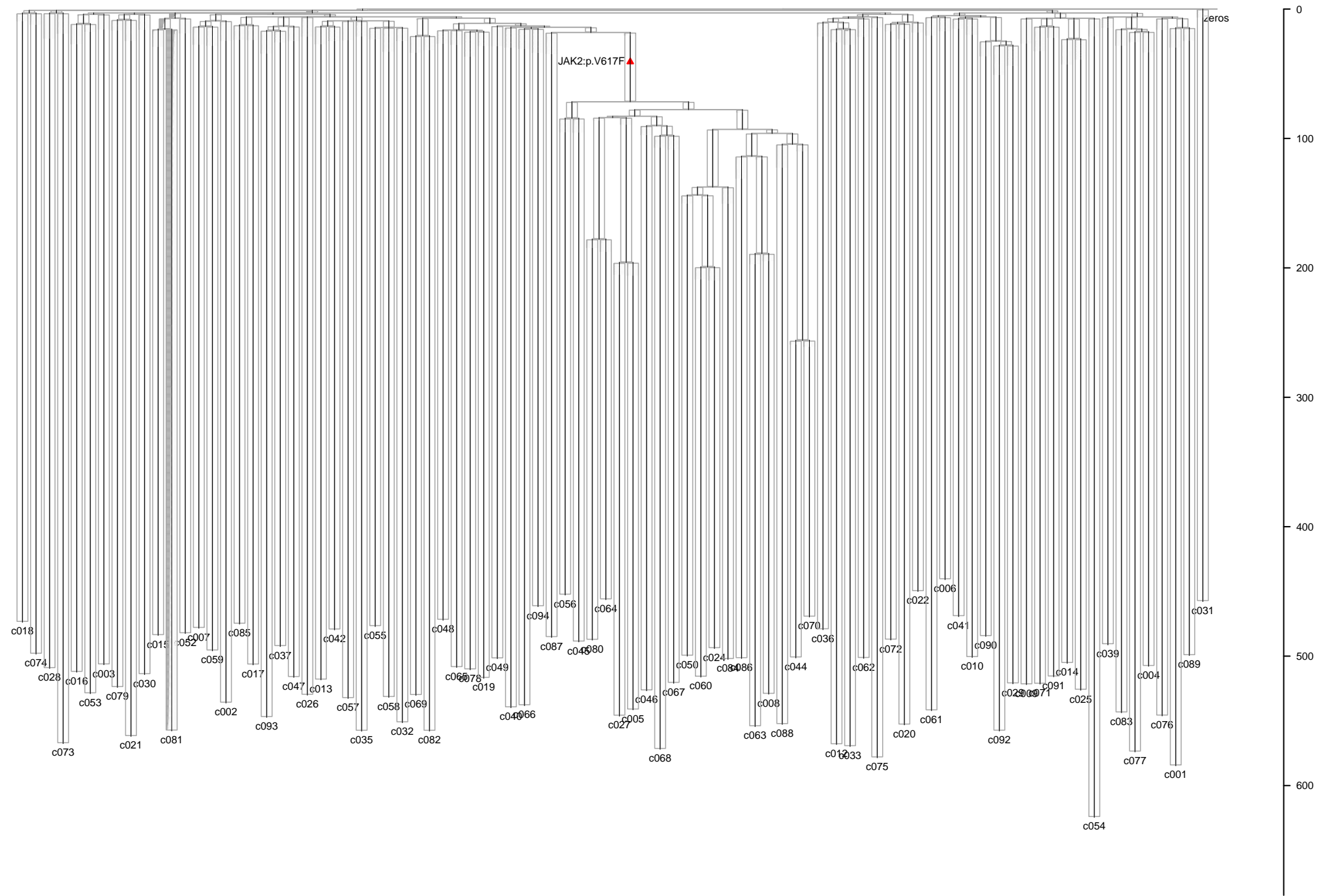




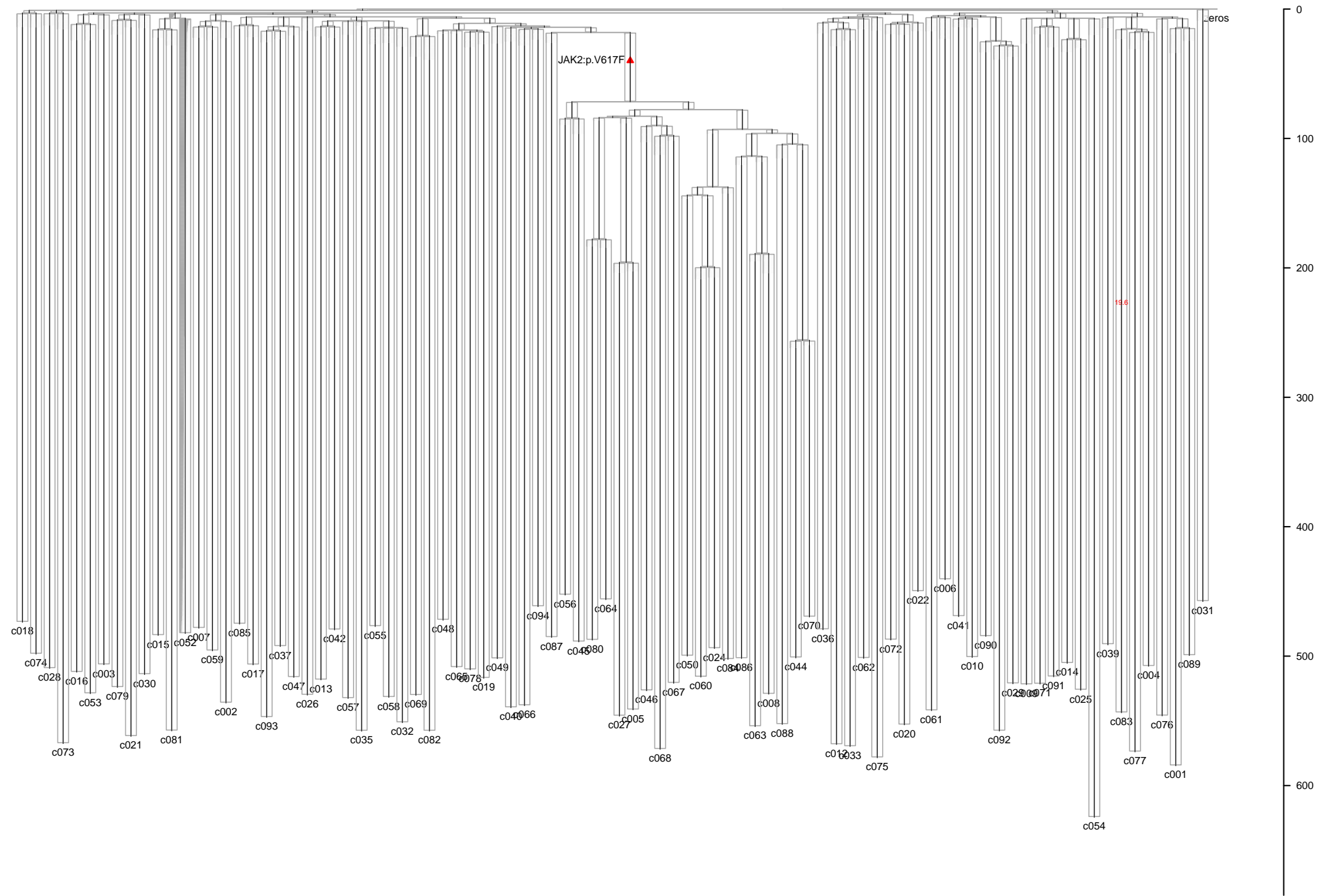
PD7271: Annotated with VAF from c03  
Mean Depth=15.40

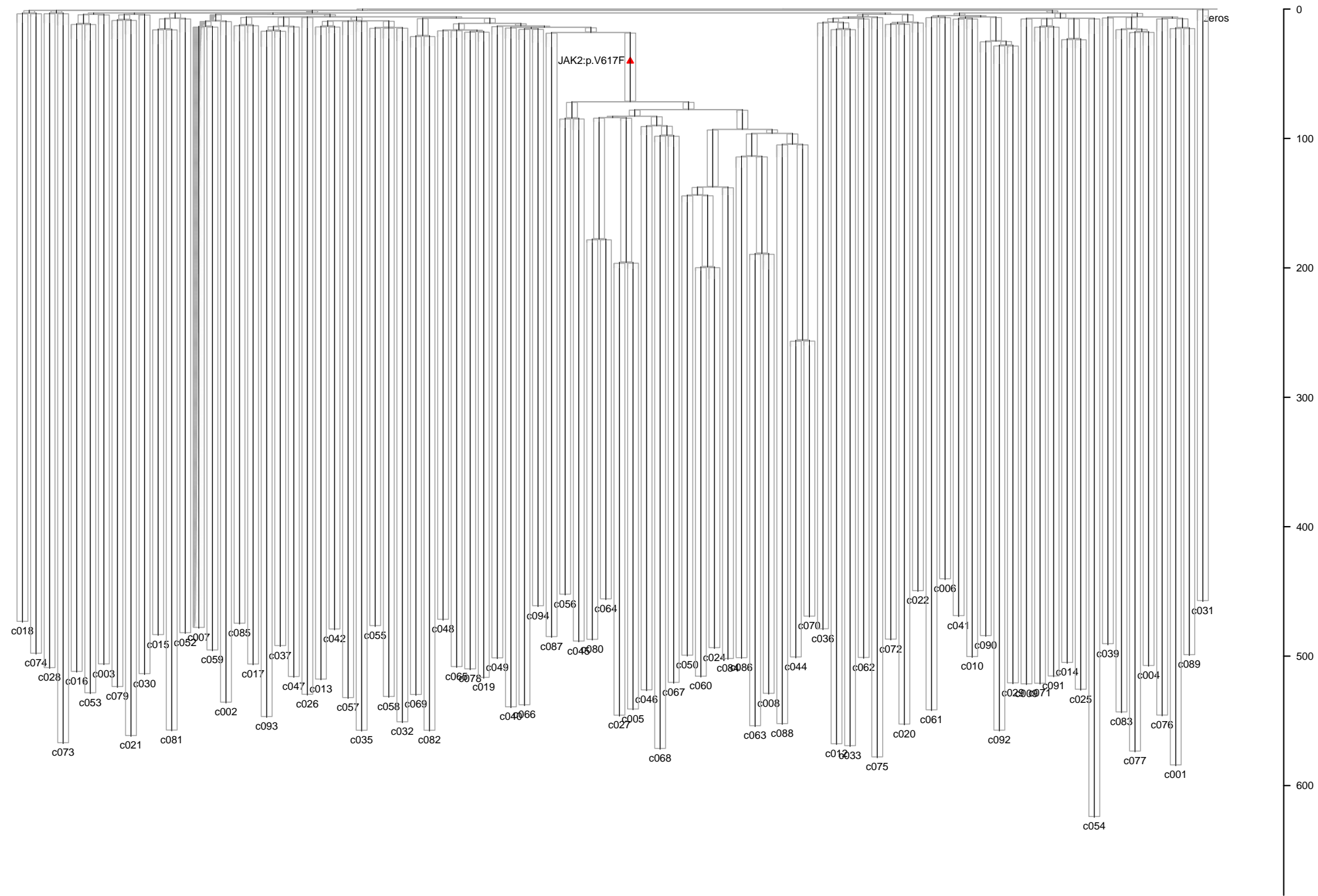


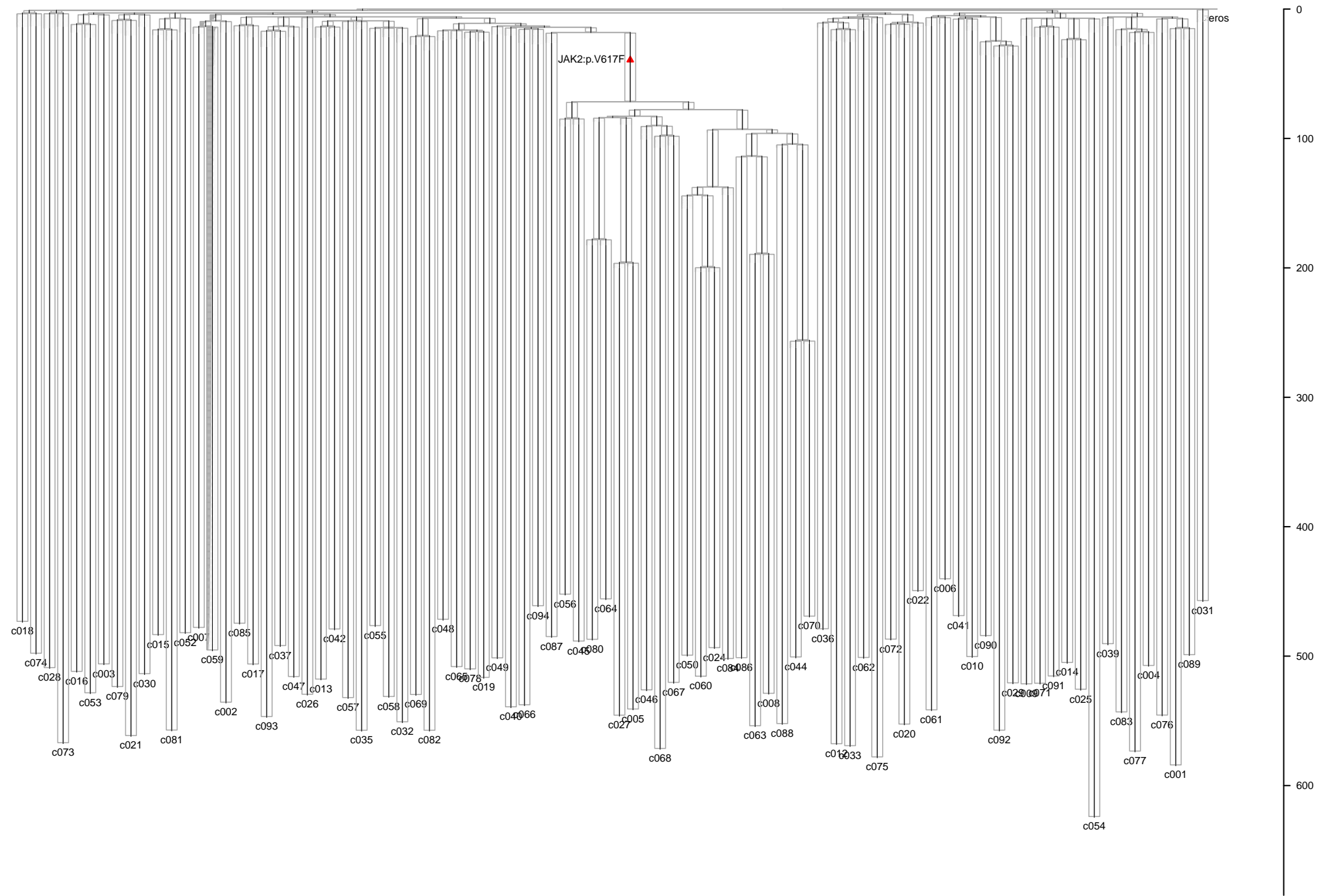




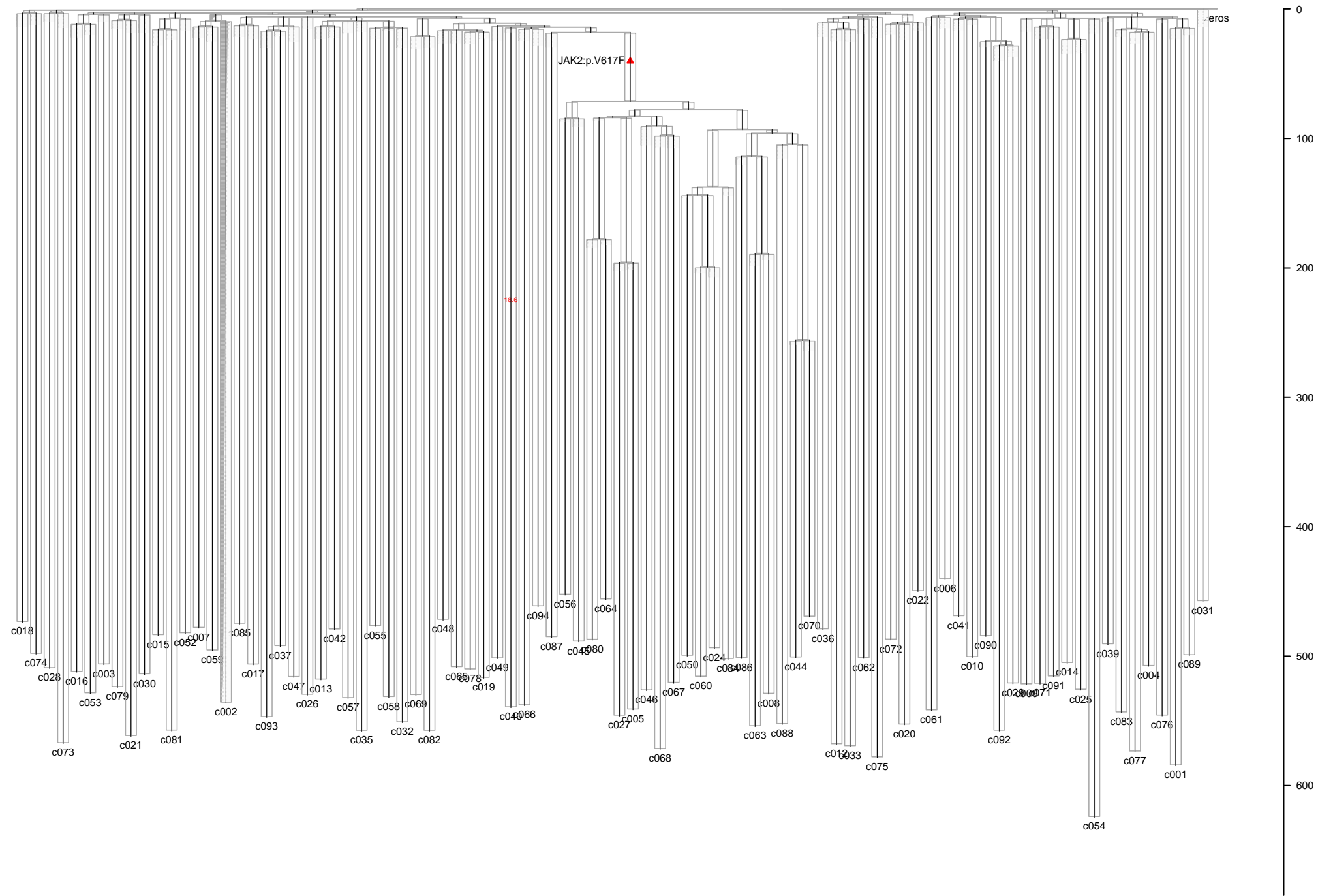
PD7271: Annotated with VAF from c05  
Mean Depth=20.09



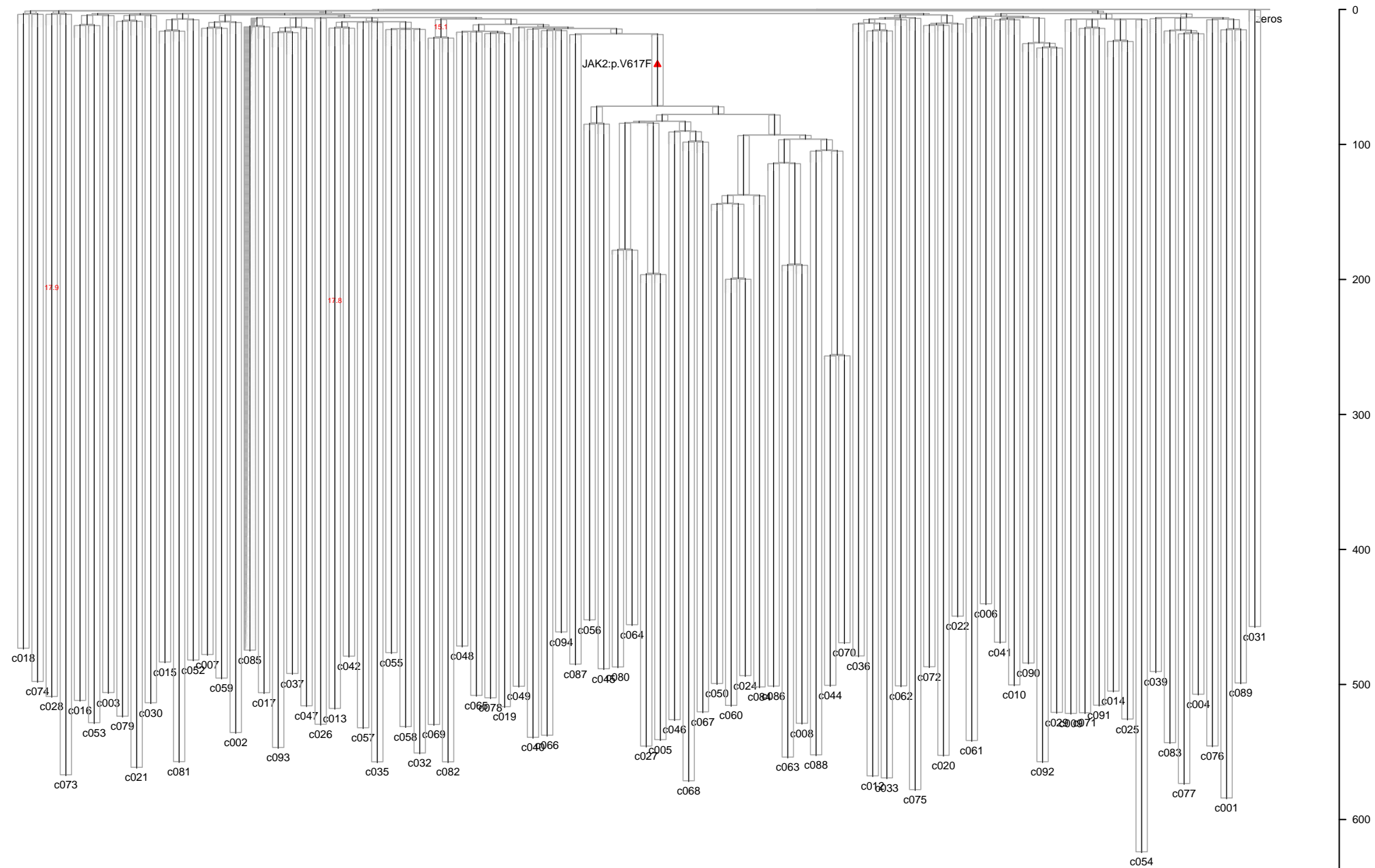


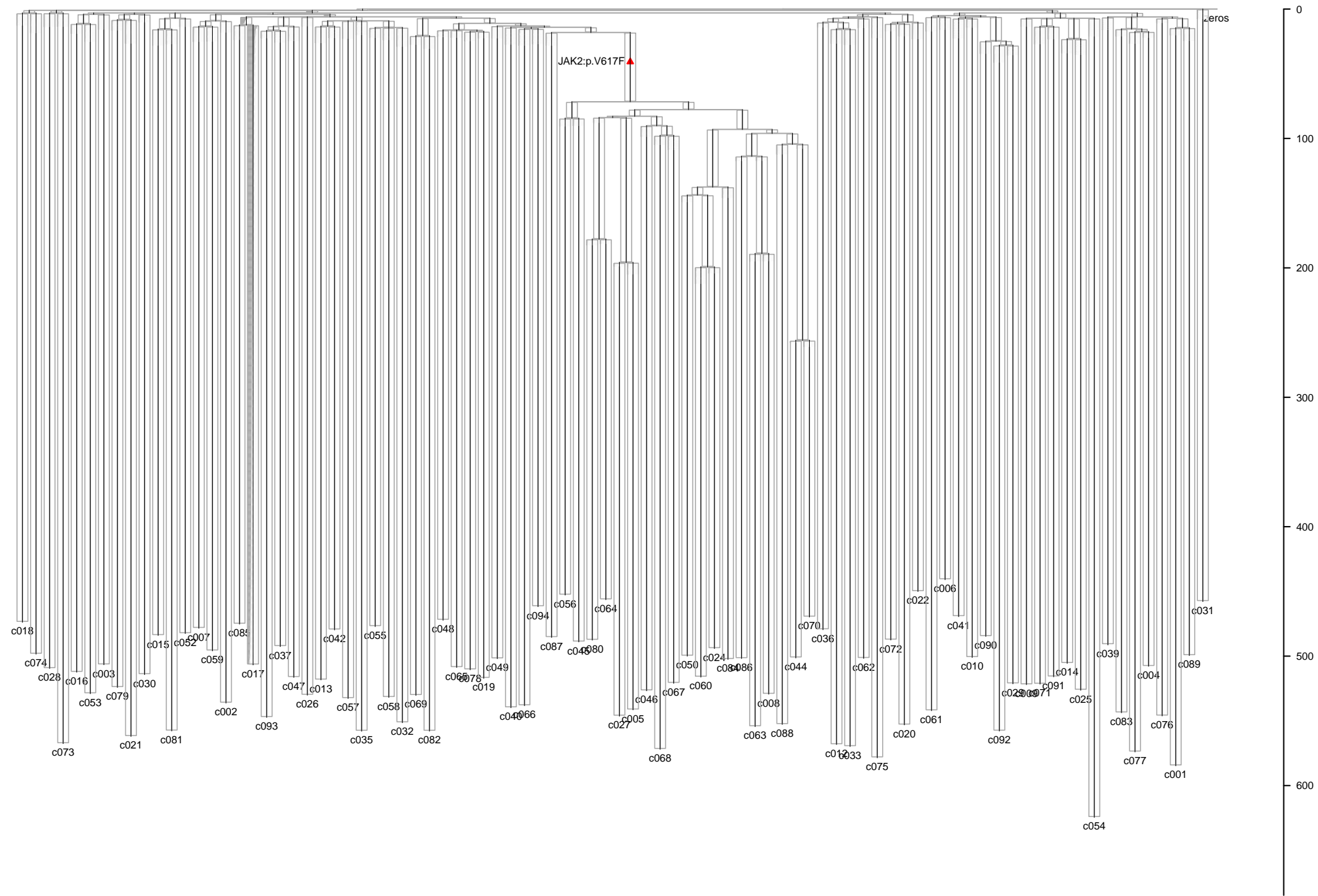




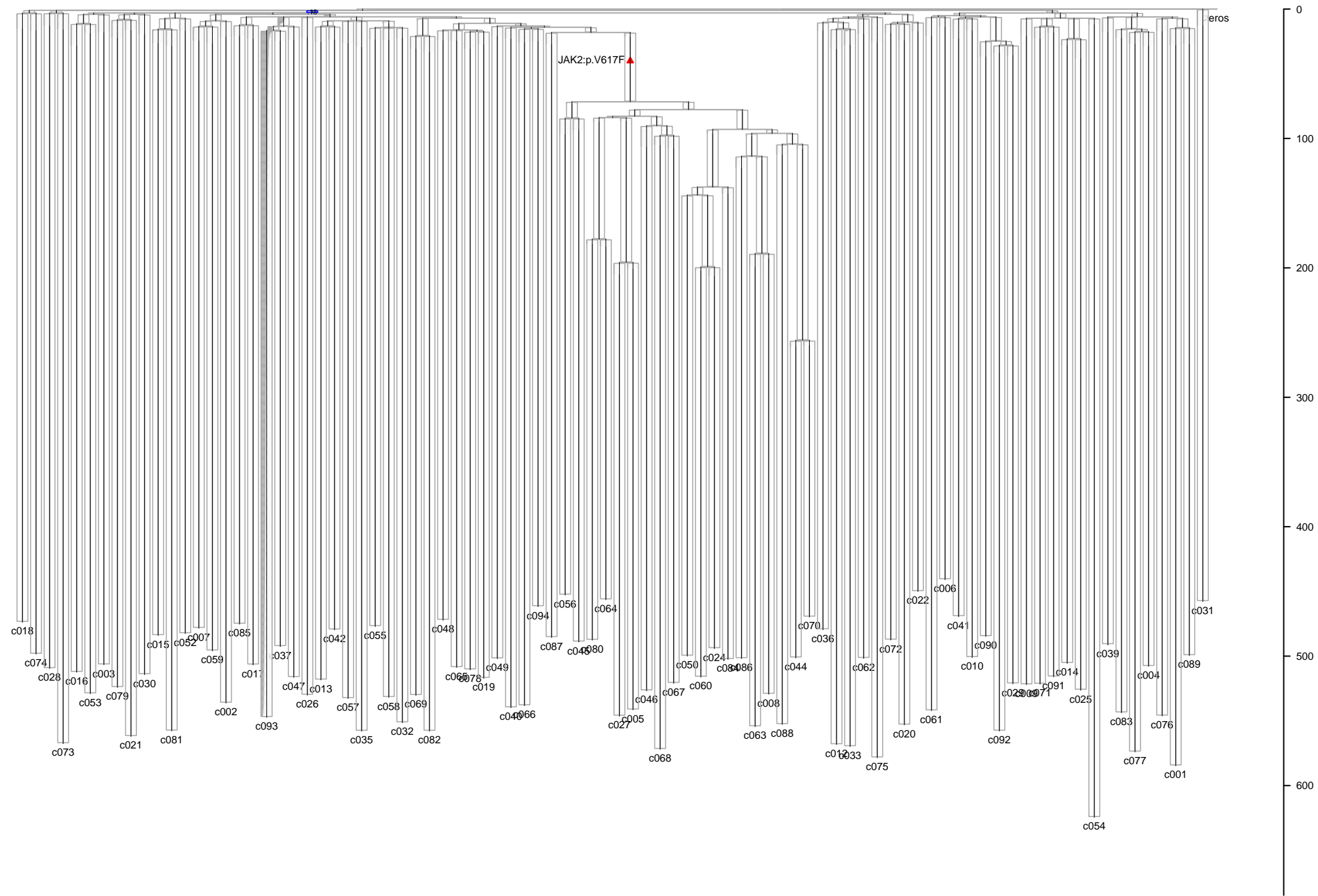


PD7271: Annotated with VAF from c08  
Mean Depth=18.47

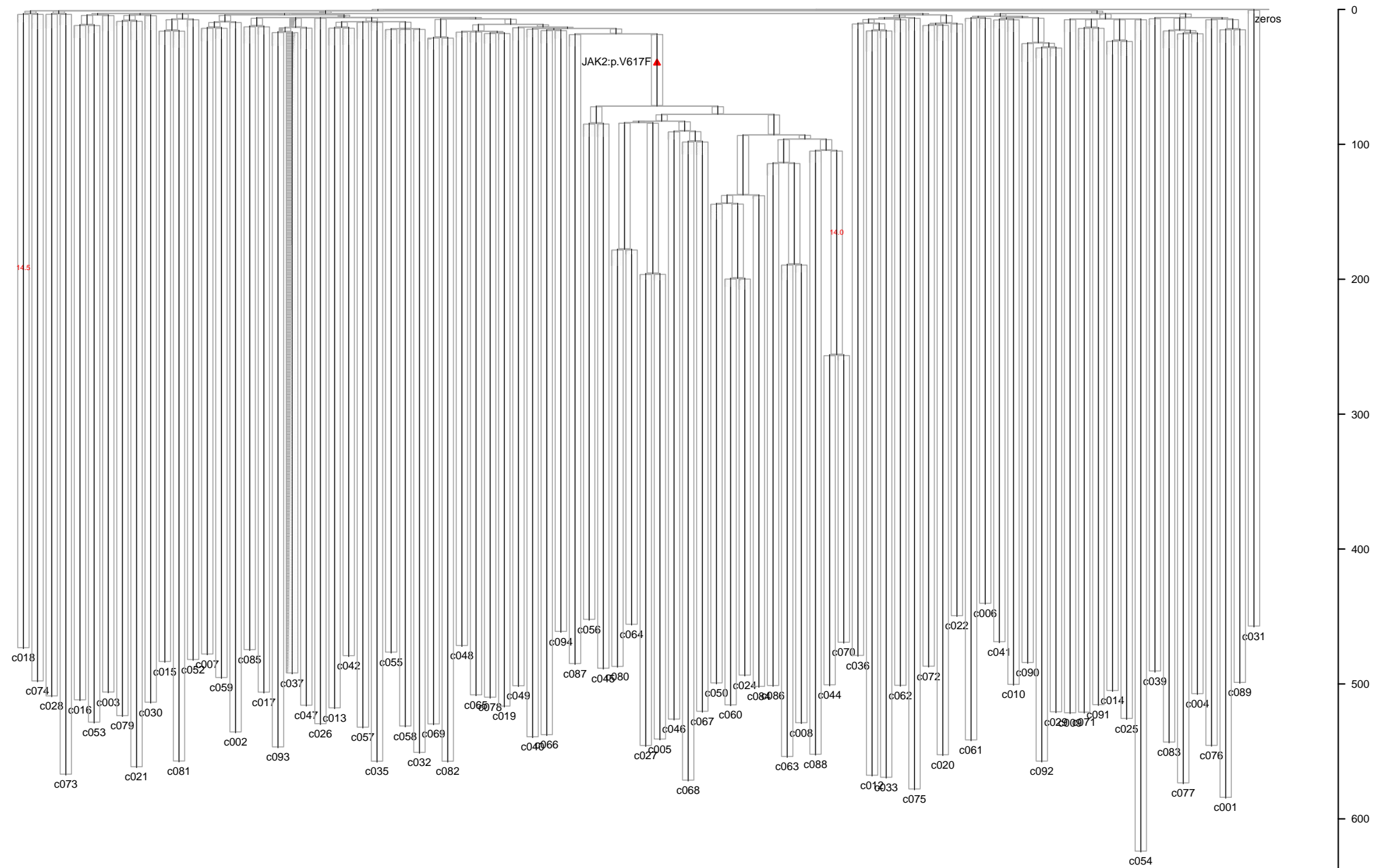




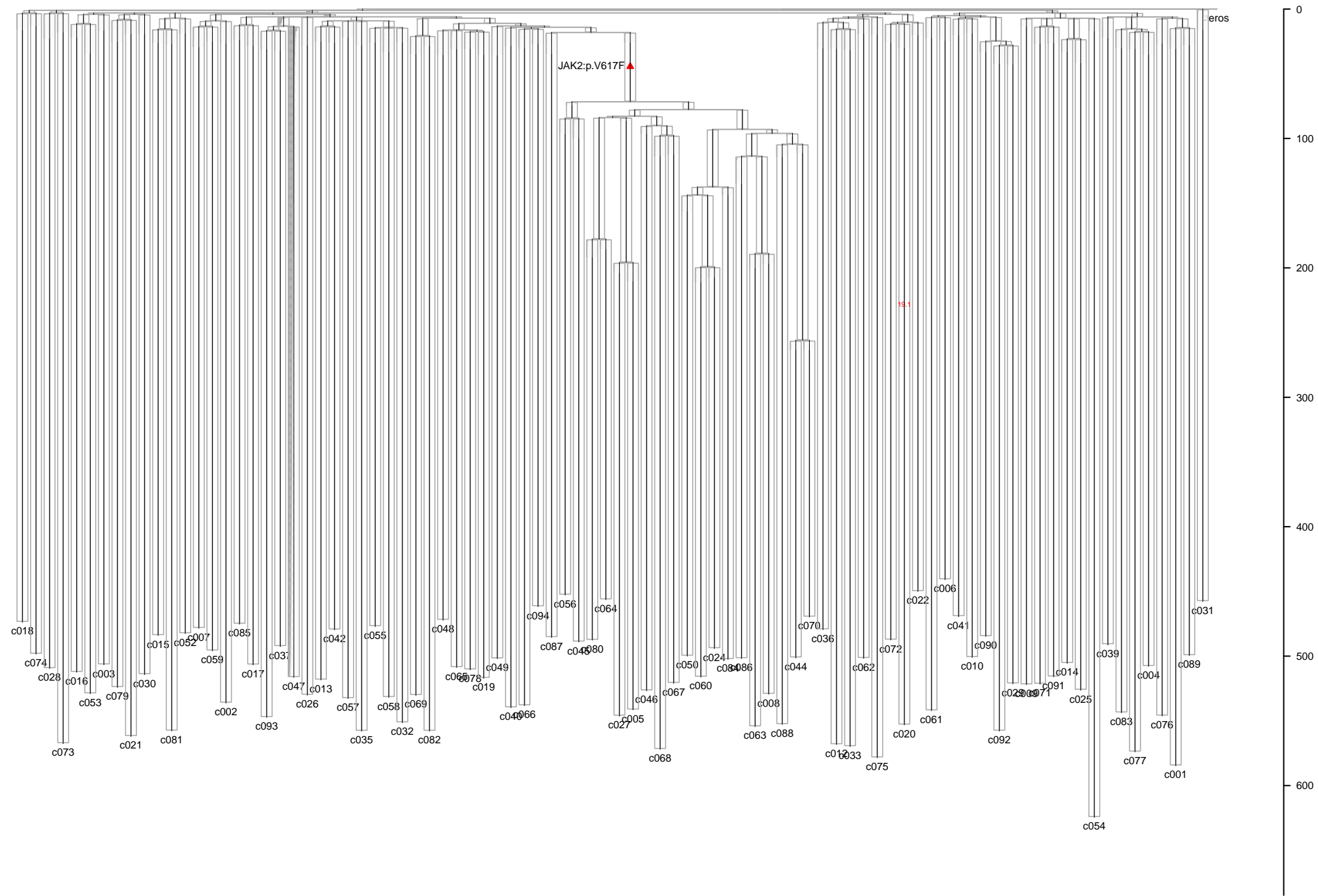
**Mean Depth=16.98**



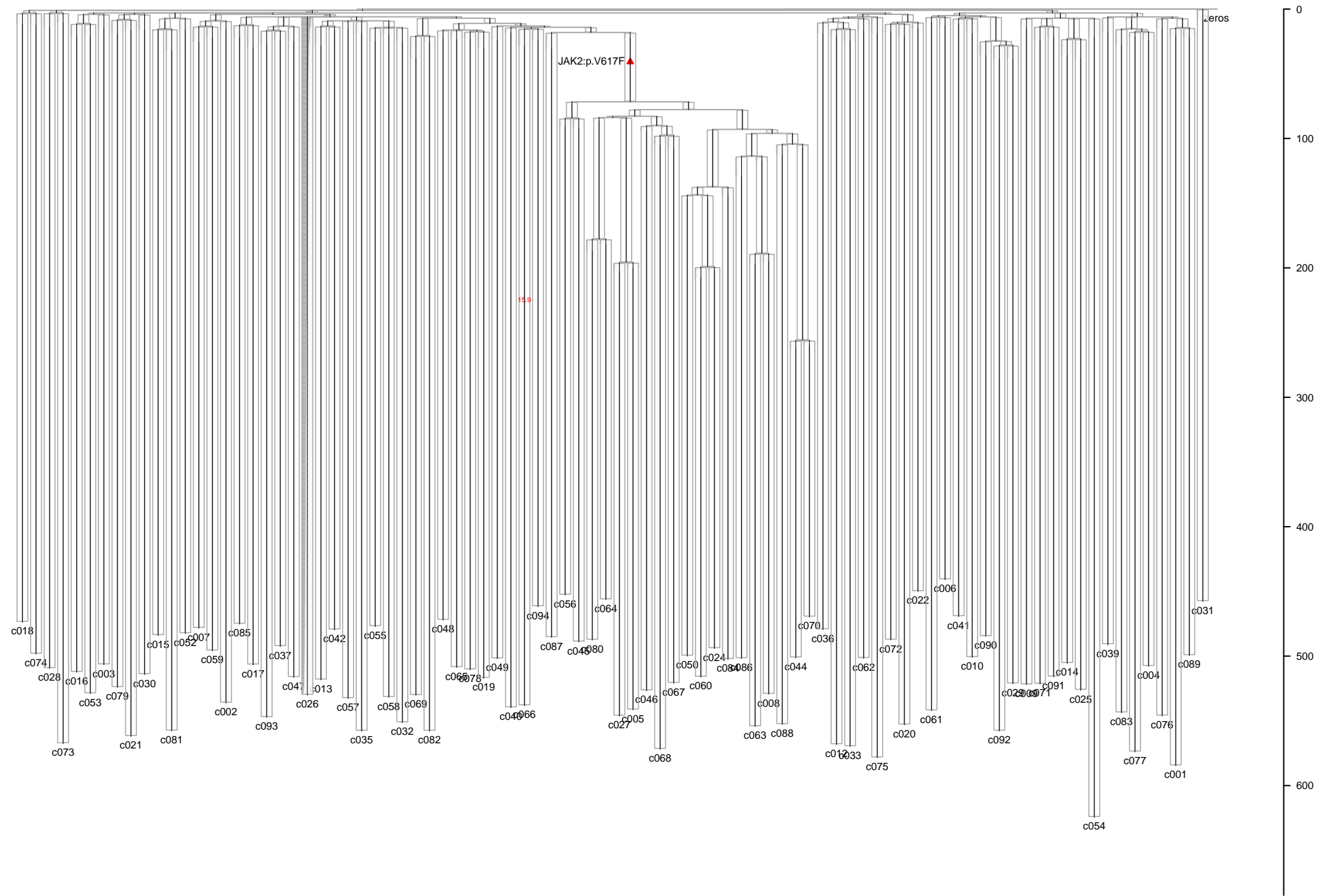
PD7271: Annotated with VAF from c03  
Mean Depth=15.00

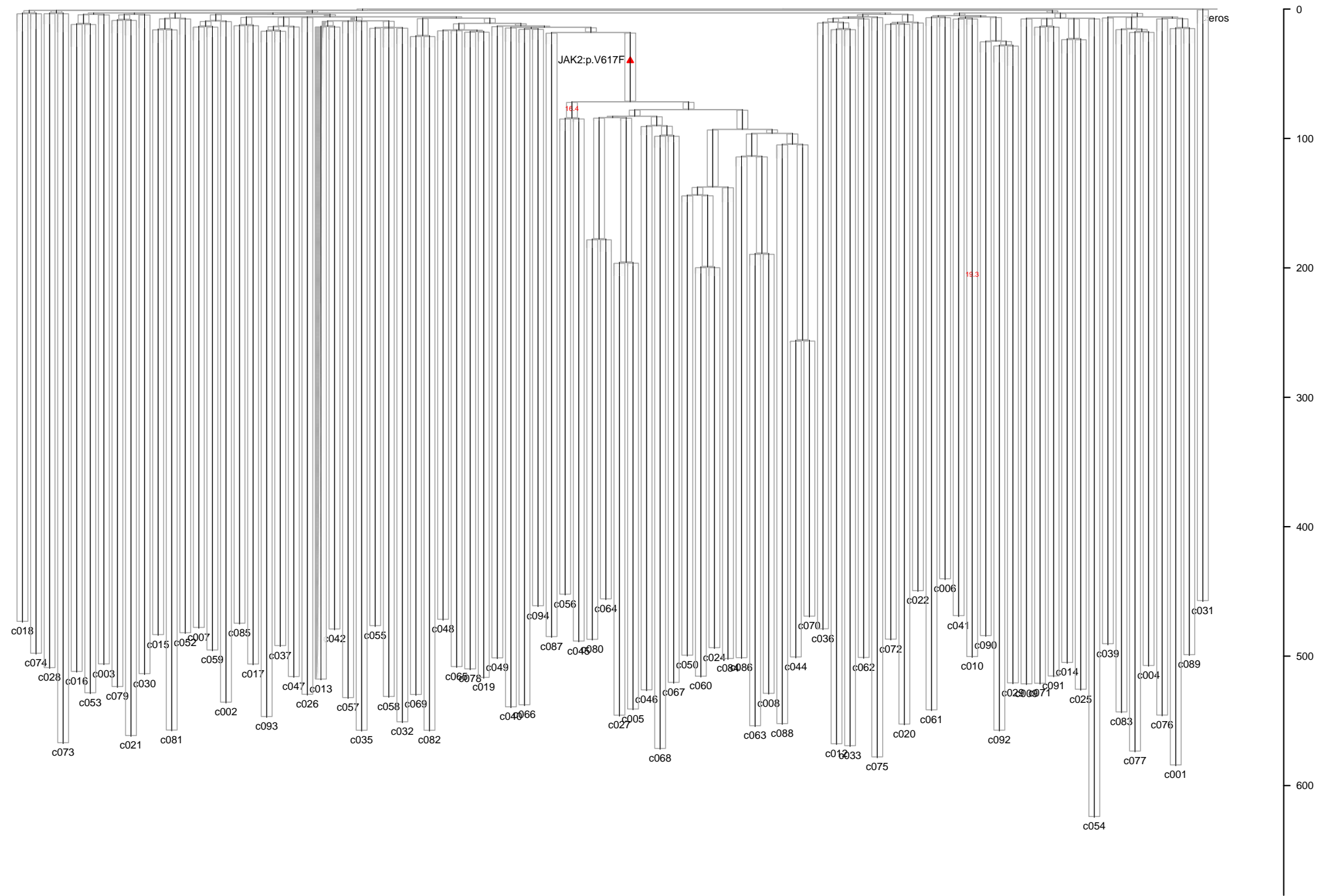


PD7271: Annotated with VAF from c04  
Mean Depth=19.61

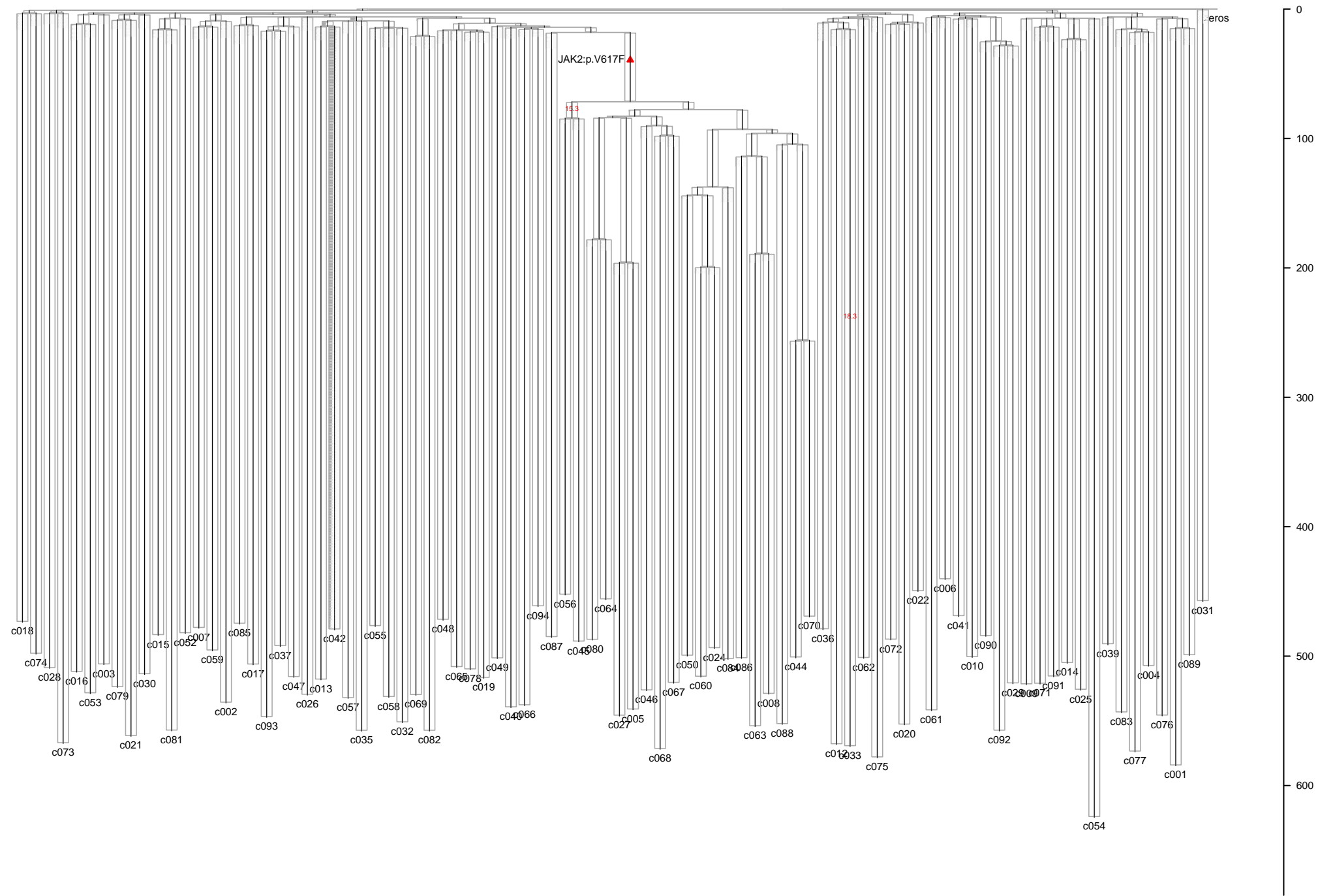


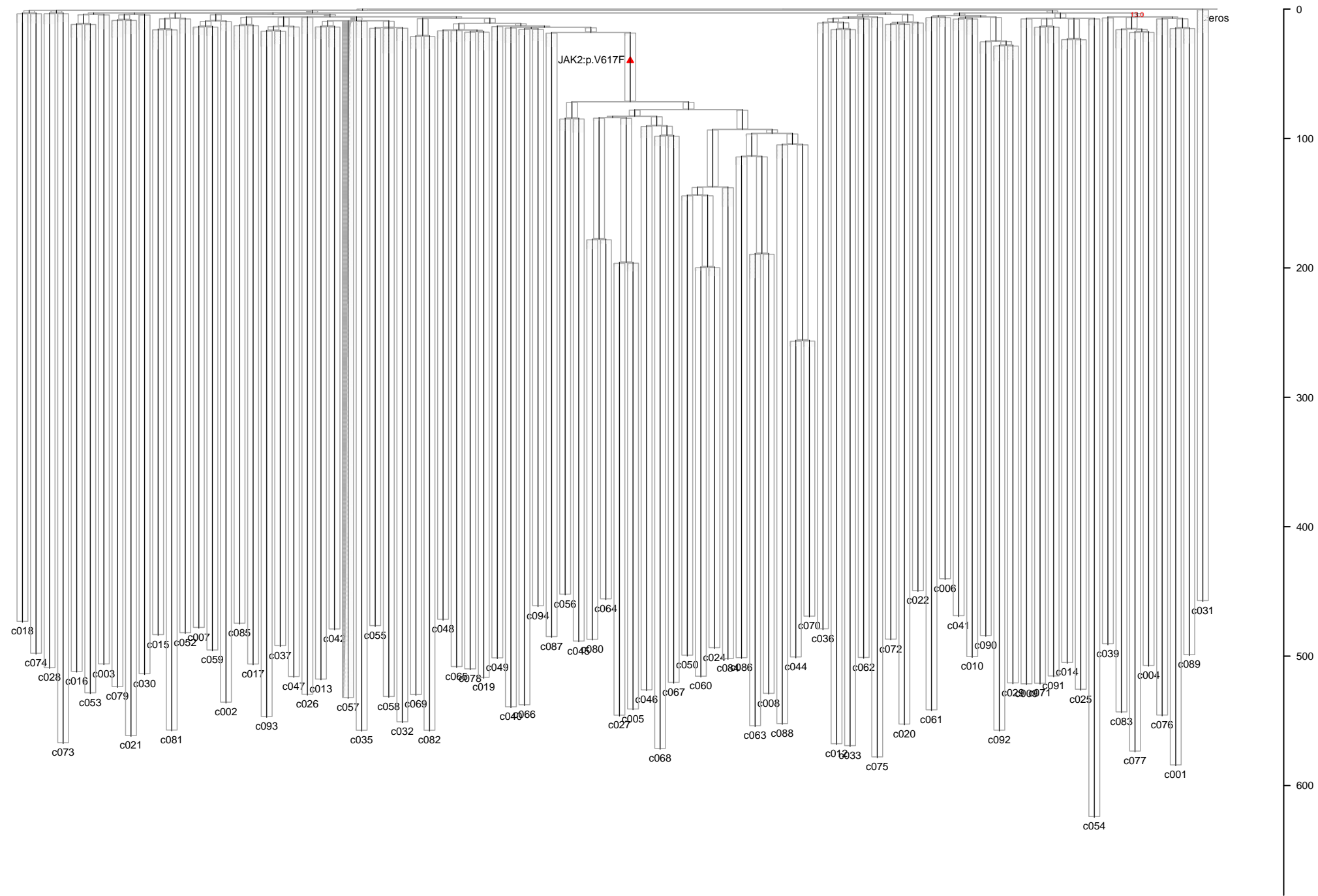
PD7271: Annotated with VAF from c02  
Mean Depth=16.52



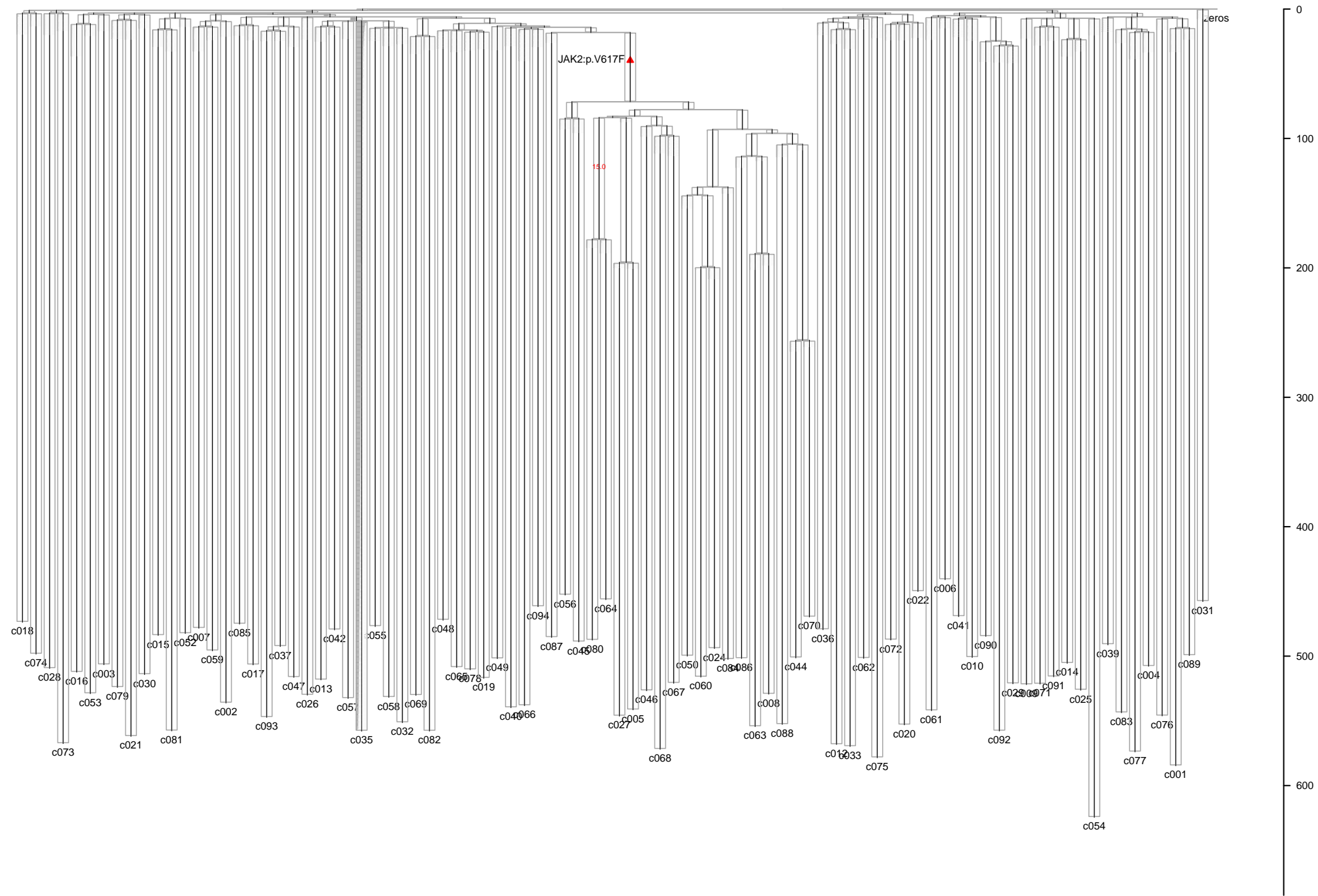




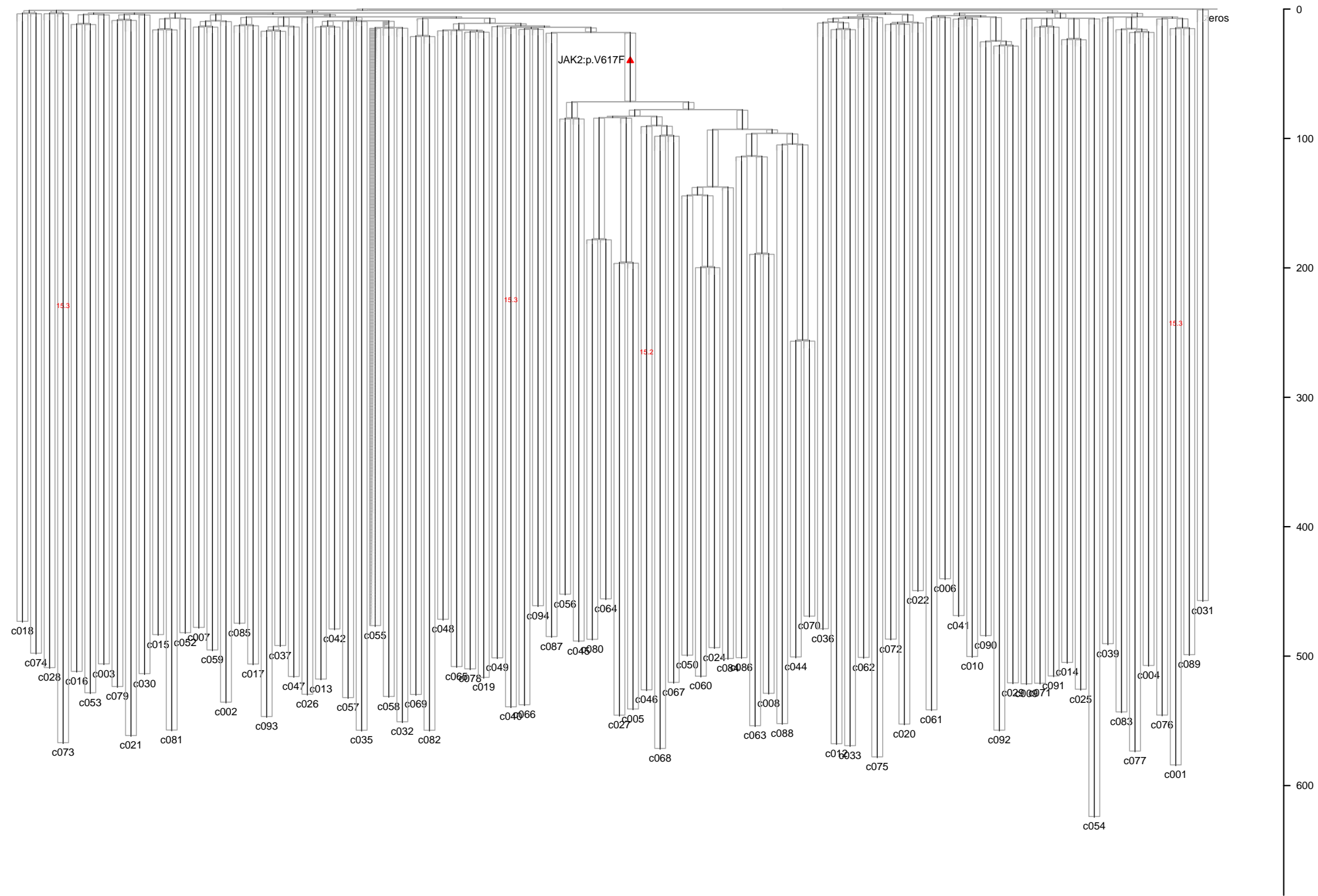




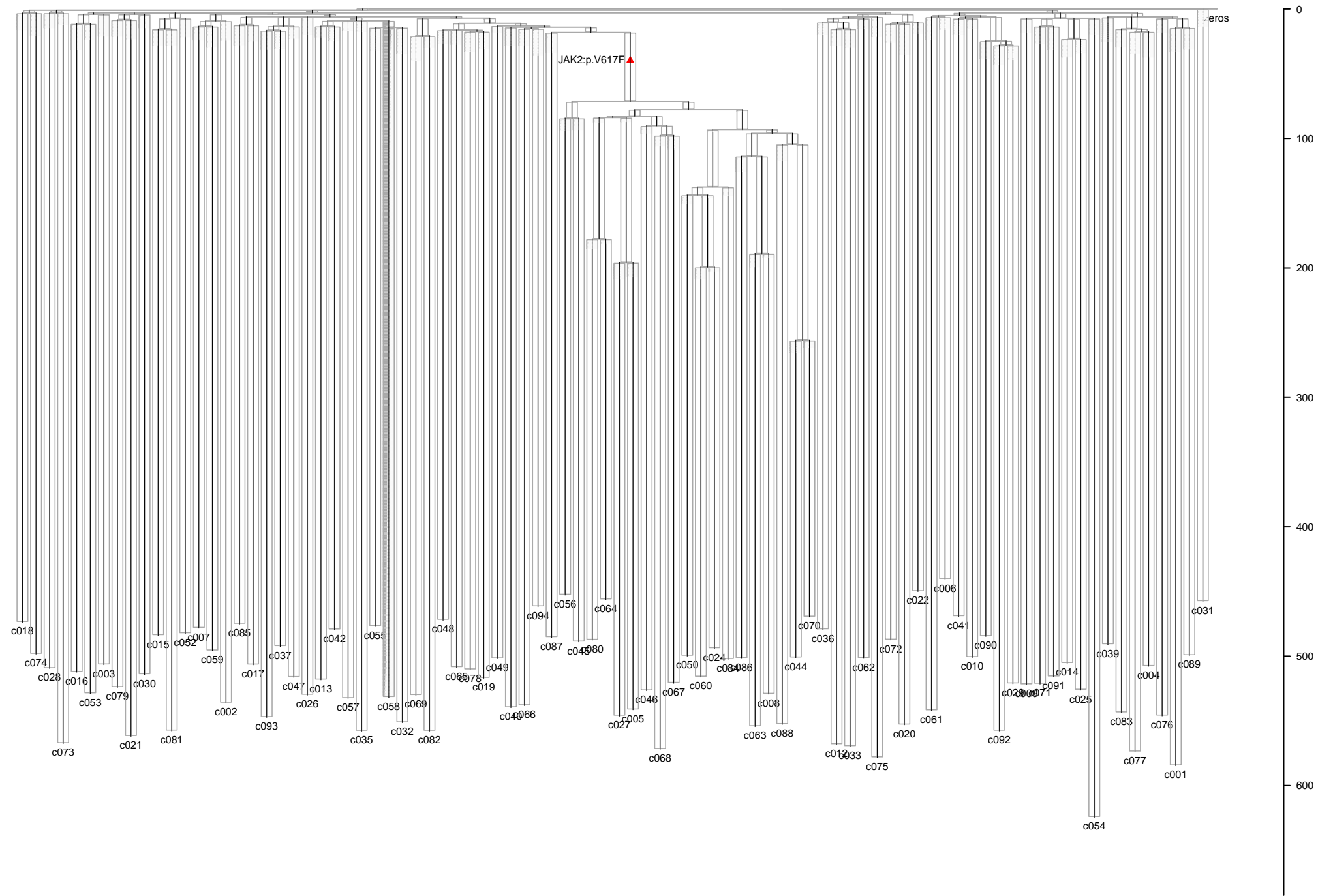
PD7271: Annotated with VAF from c03  
Mean Depth=16.21

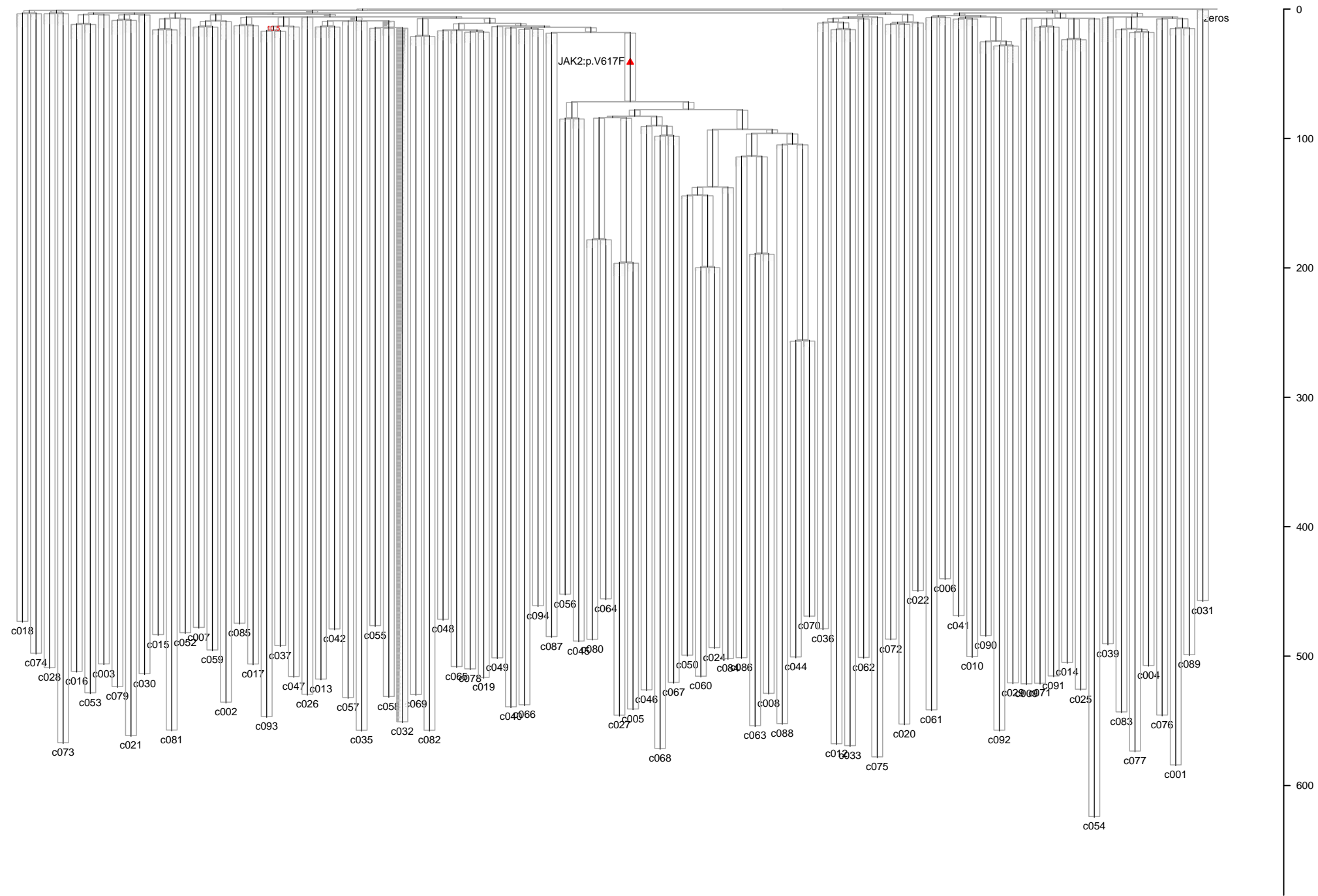


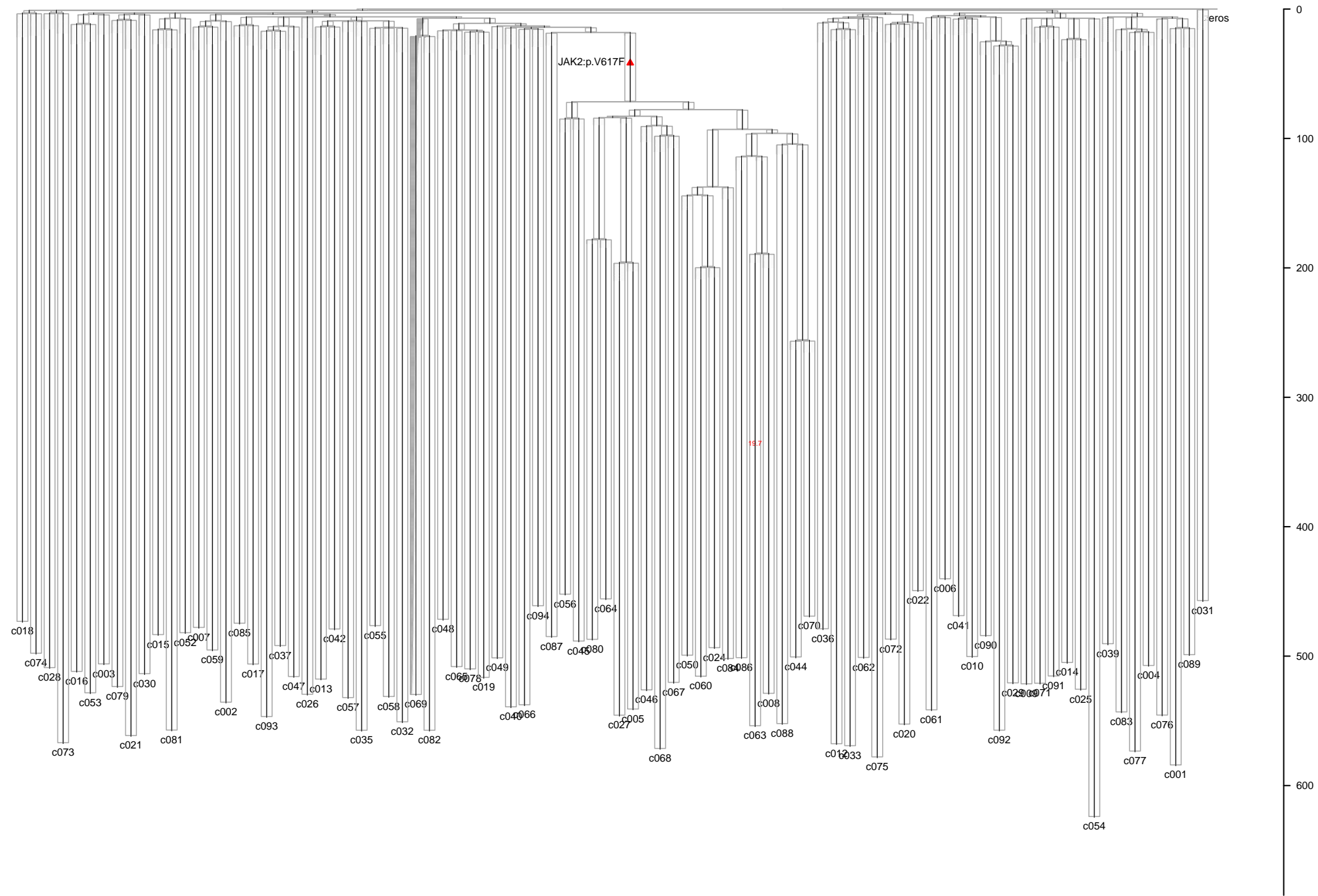
PD7271: Annotated with VAF from c05  
Mean Depth=15.81



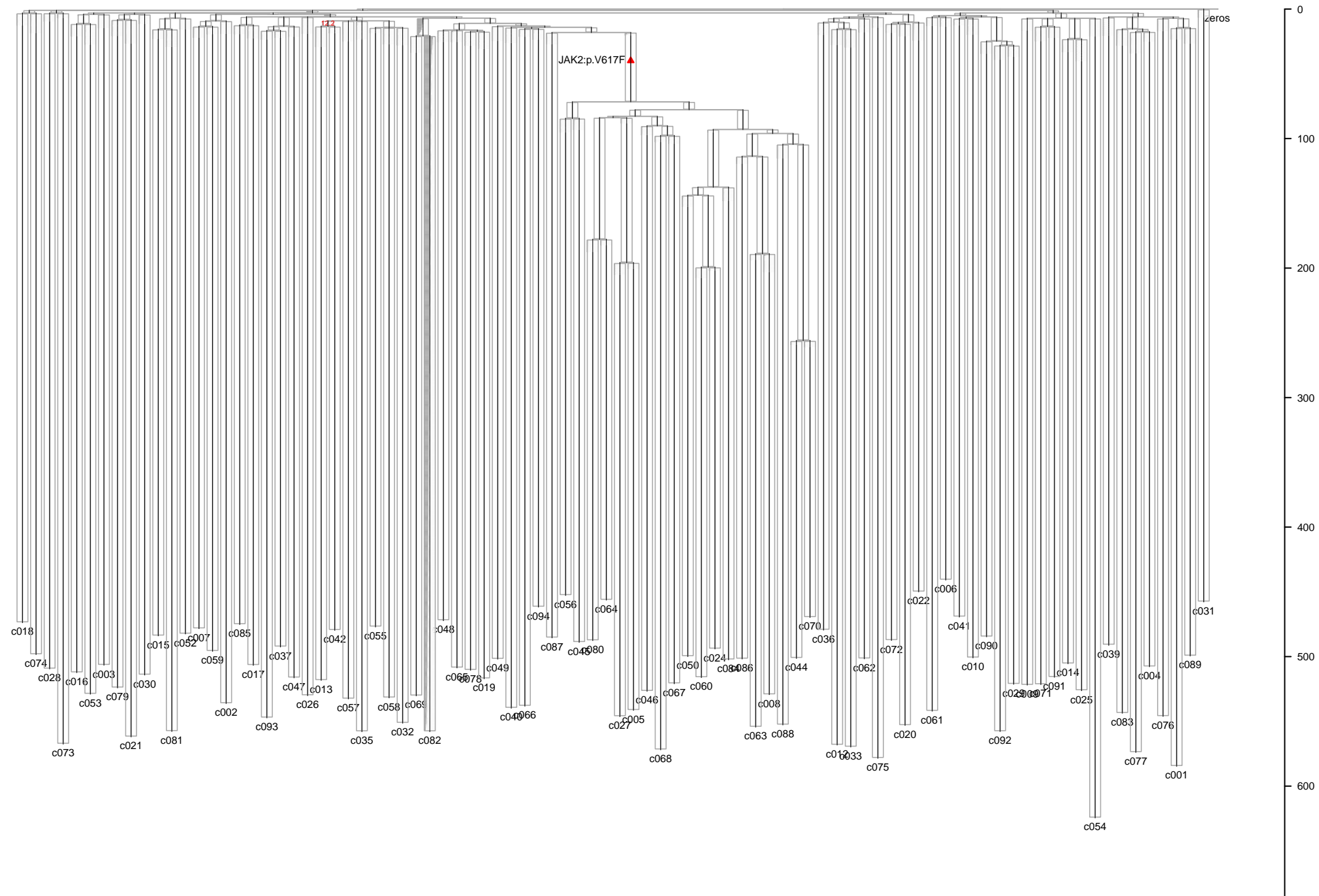
PD7271: Annotated with VAF from c05  
Mean Depth=17.72



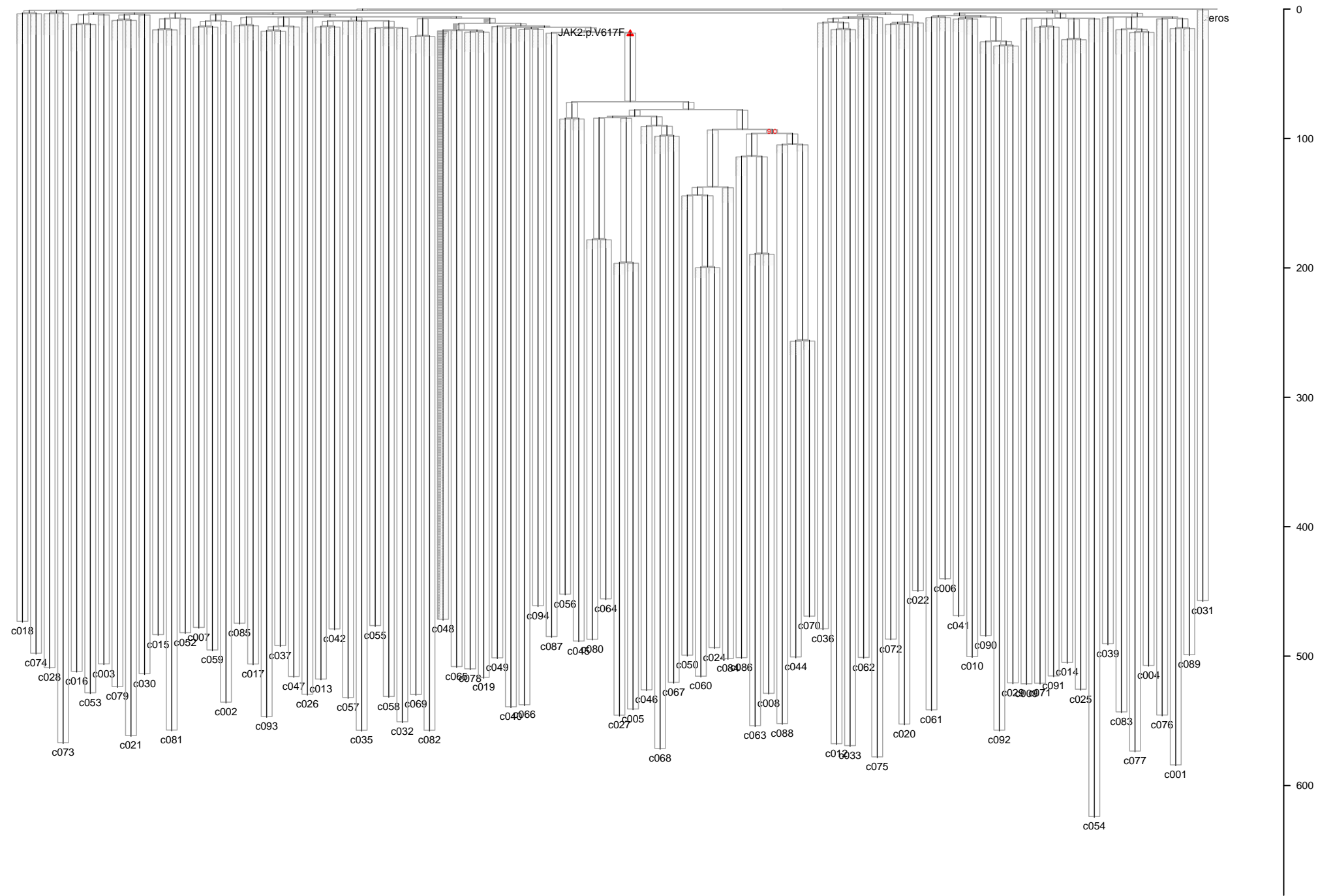


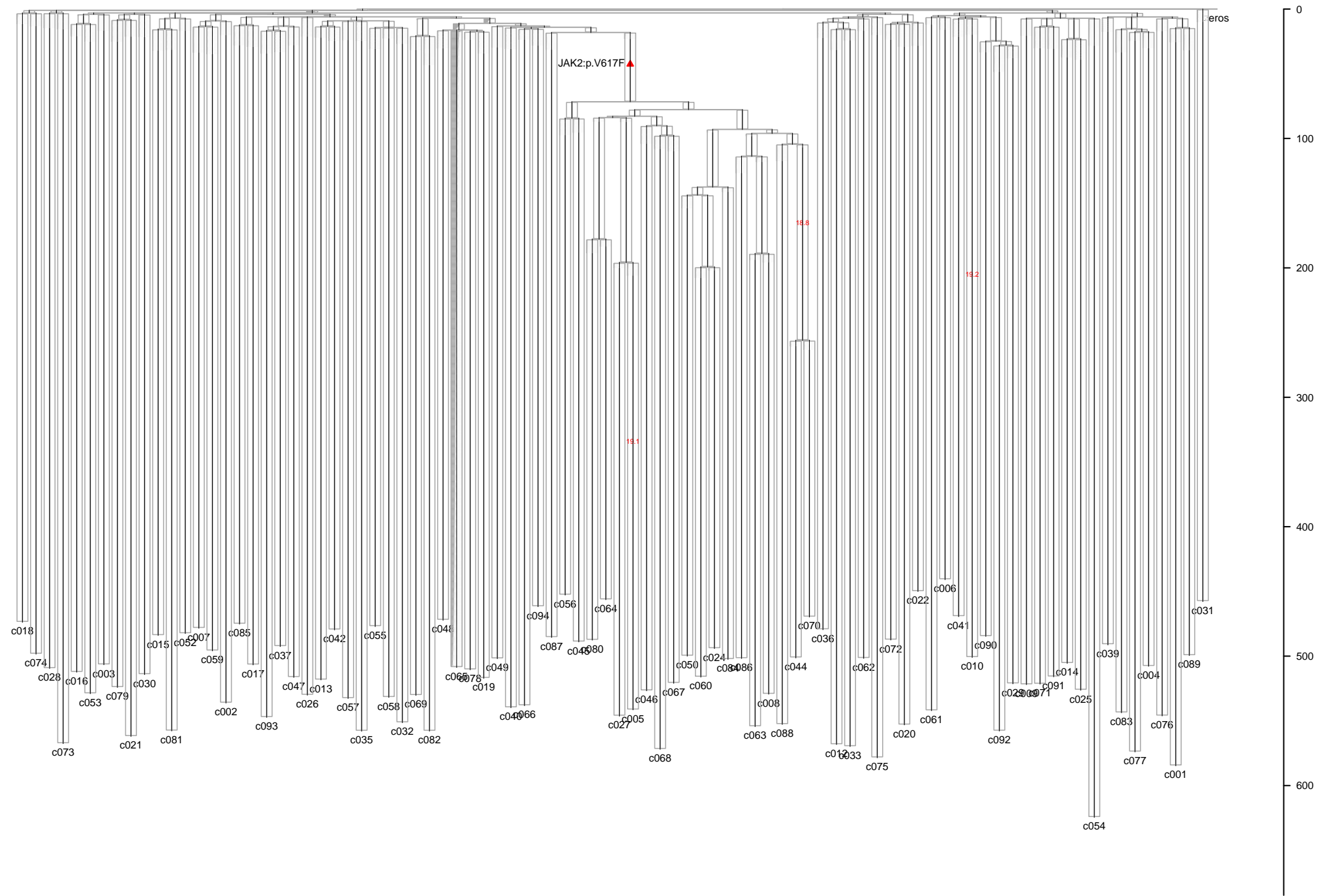


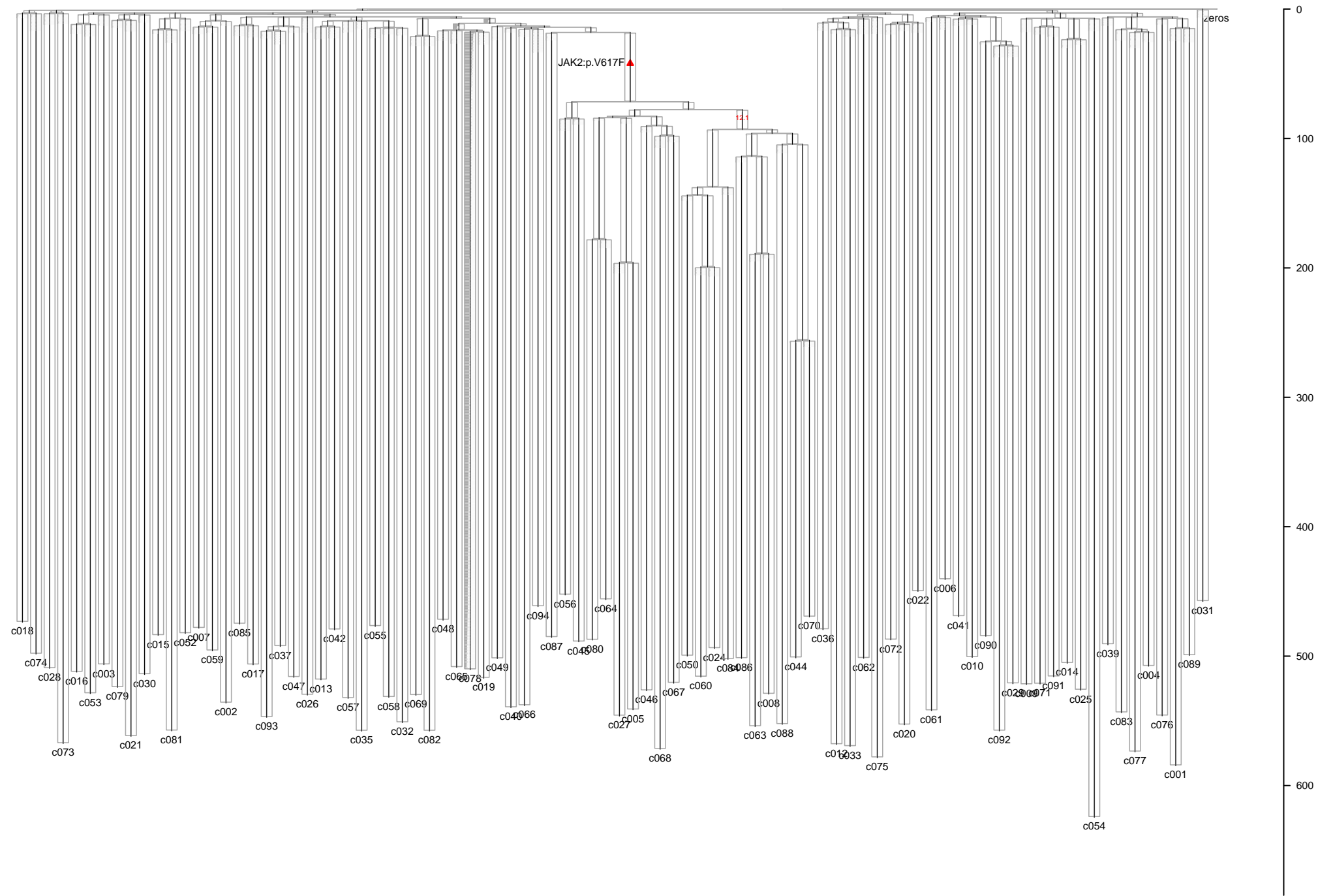
**Mean Depth=18.52**

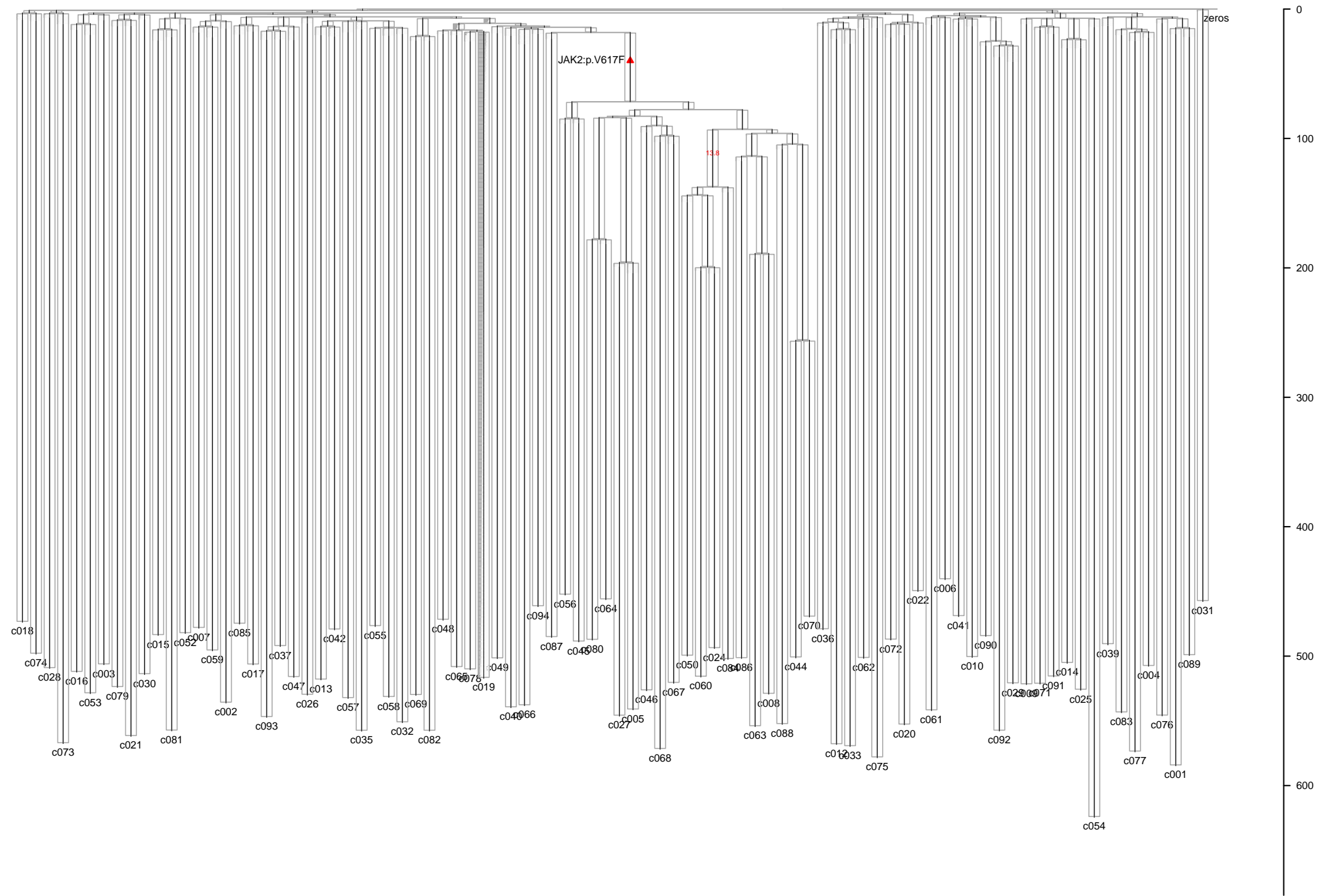




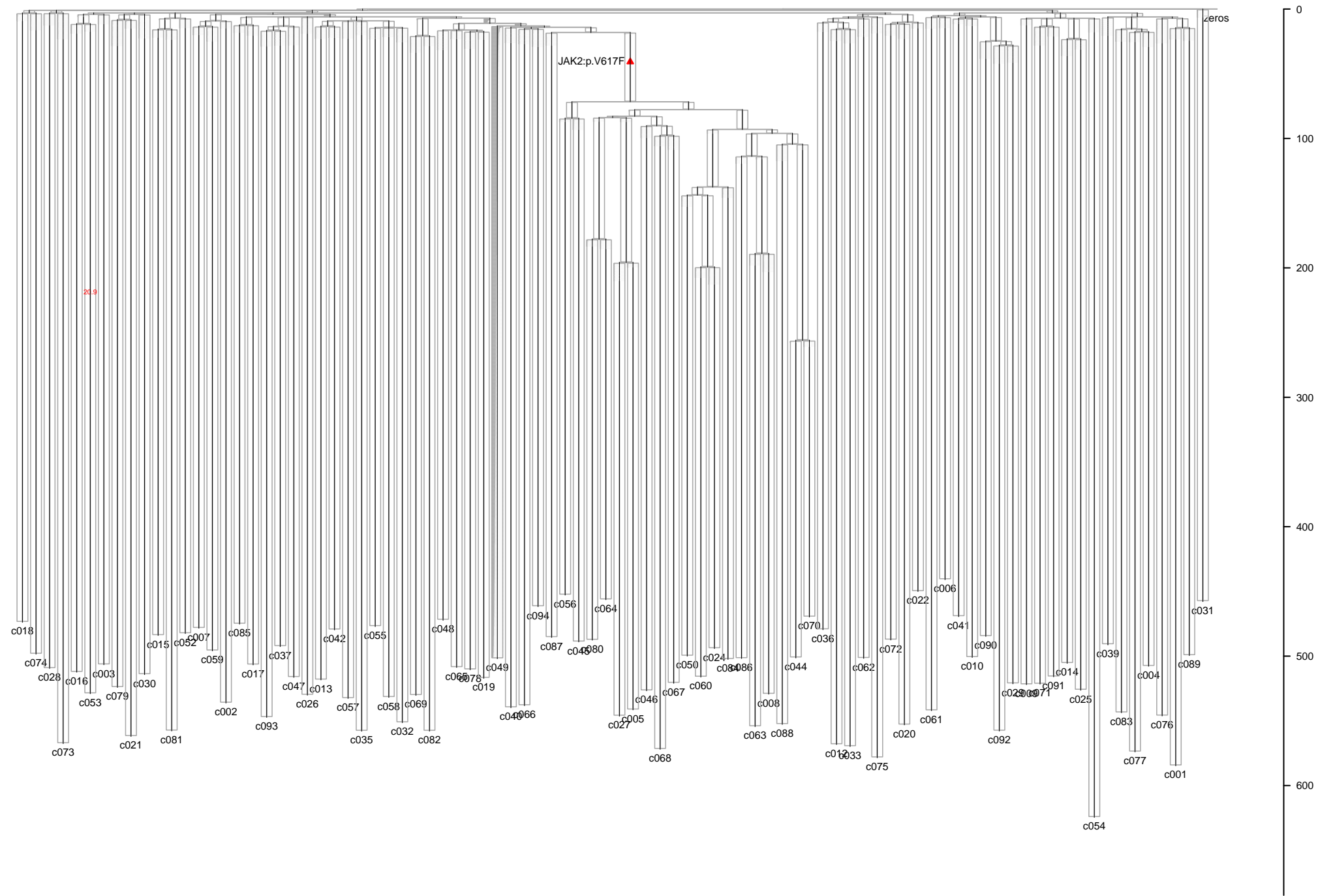


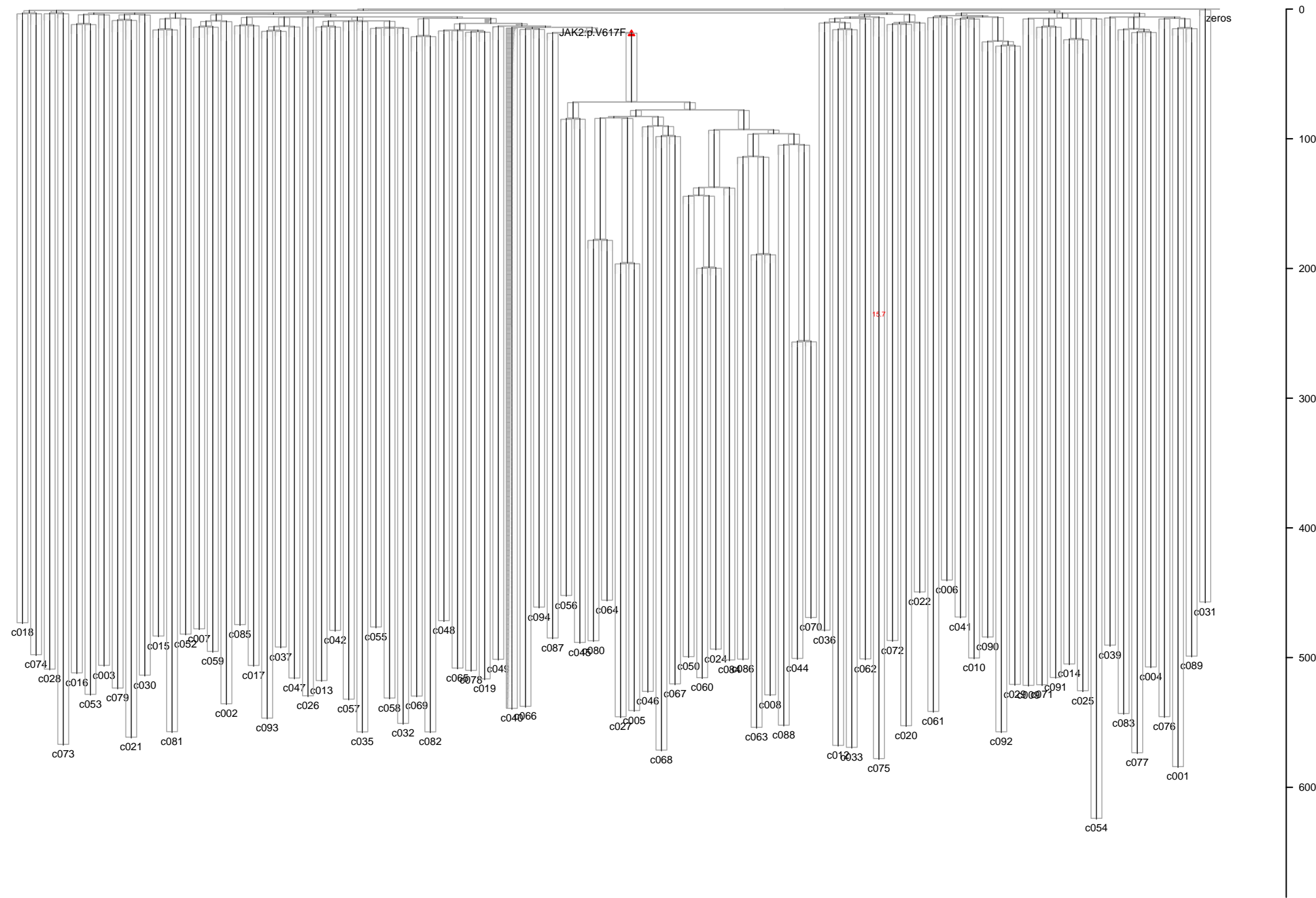




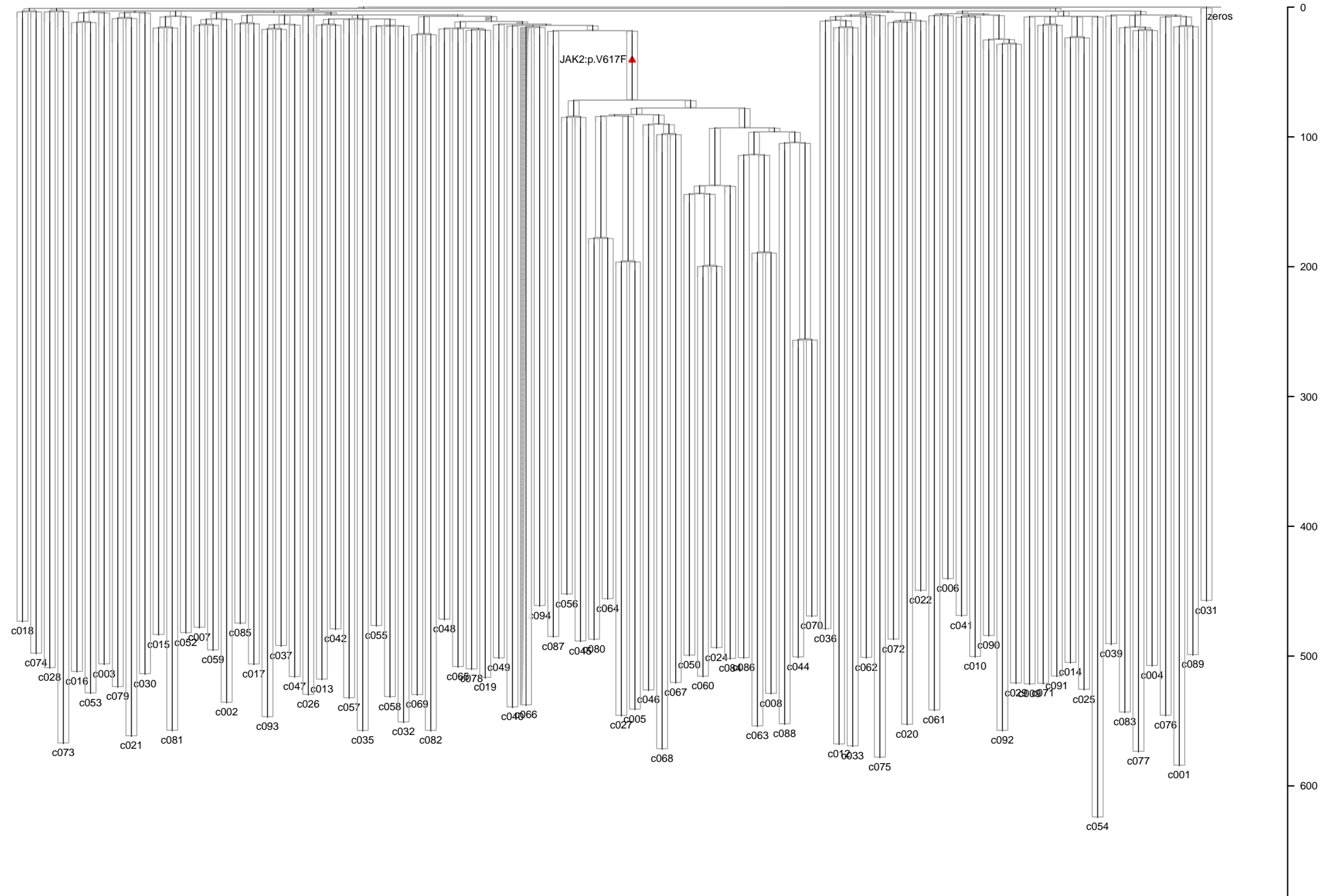


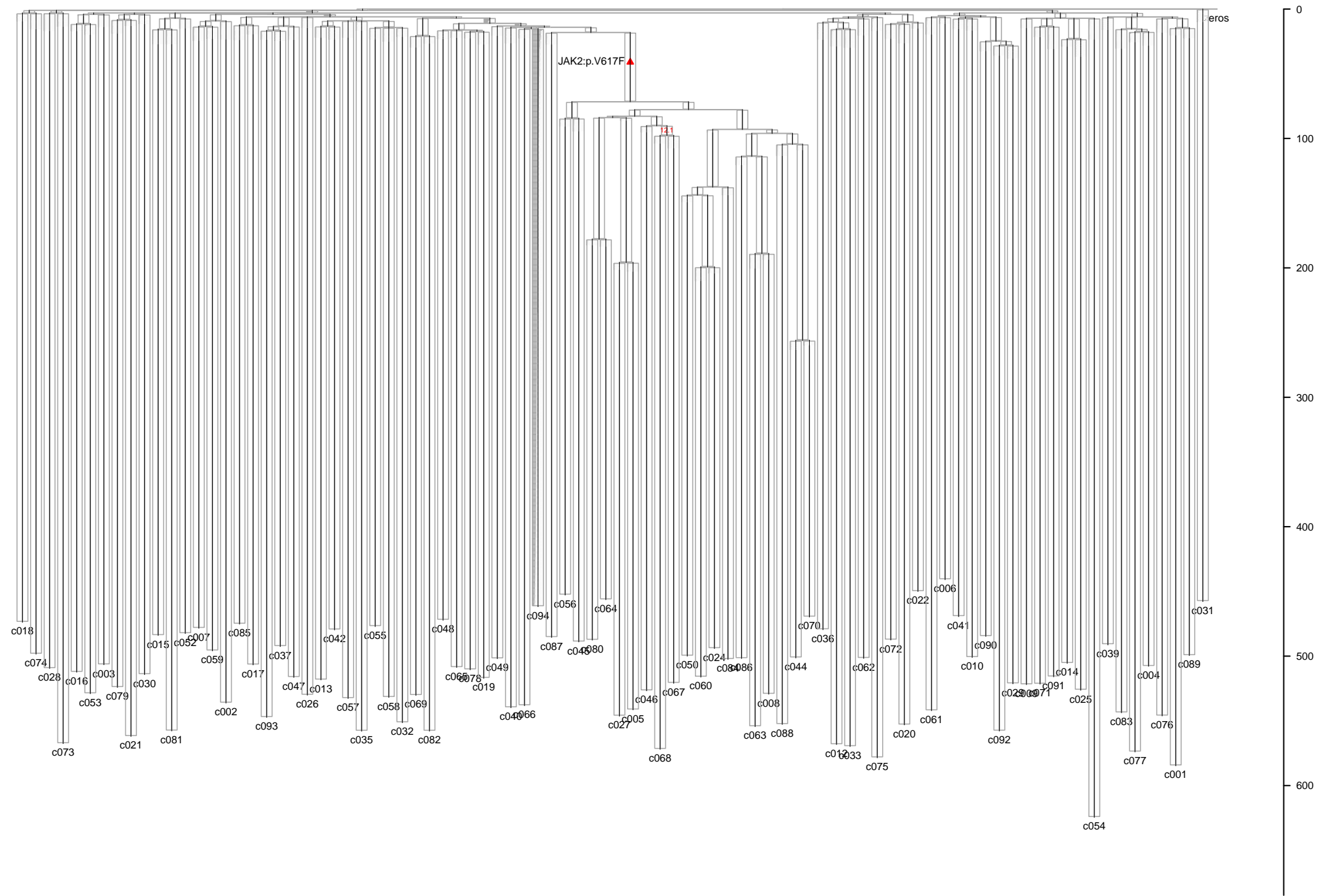
PD7271: Annotated with VAF from c04  
Mean Depth=21.54





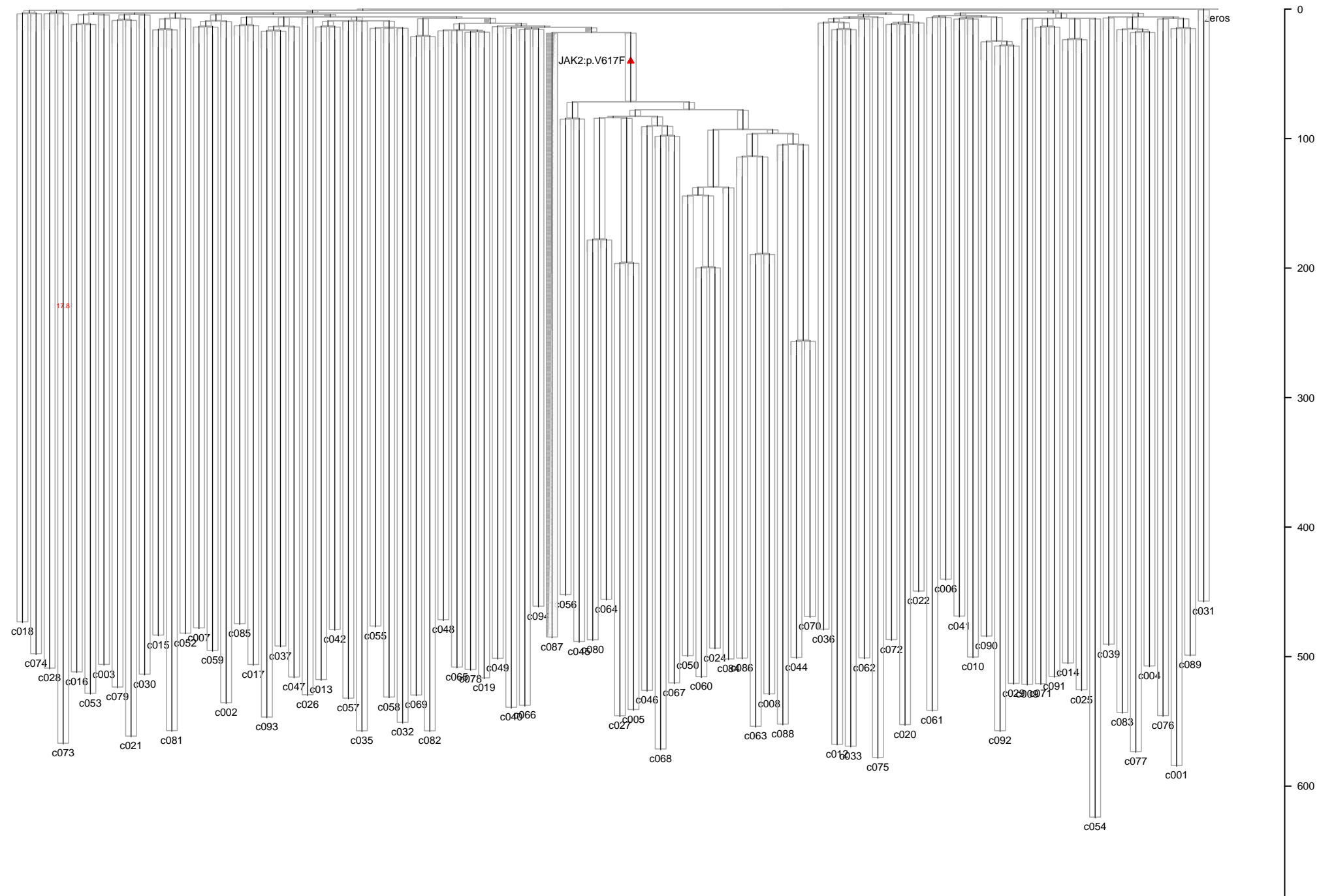
PD7271: Annotated with VAF from c00  
Mean Depth=16.40

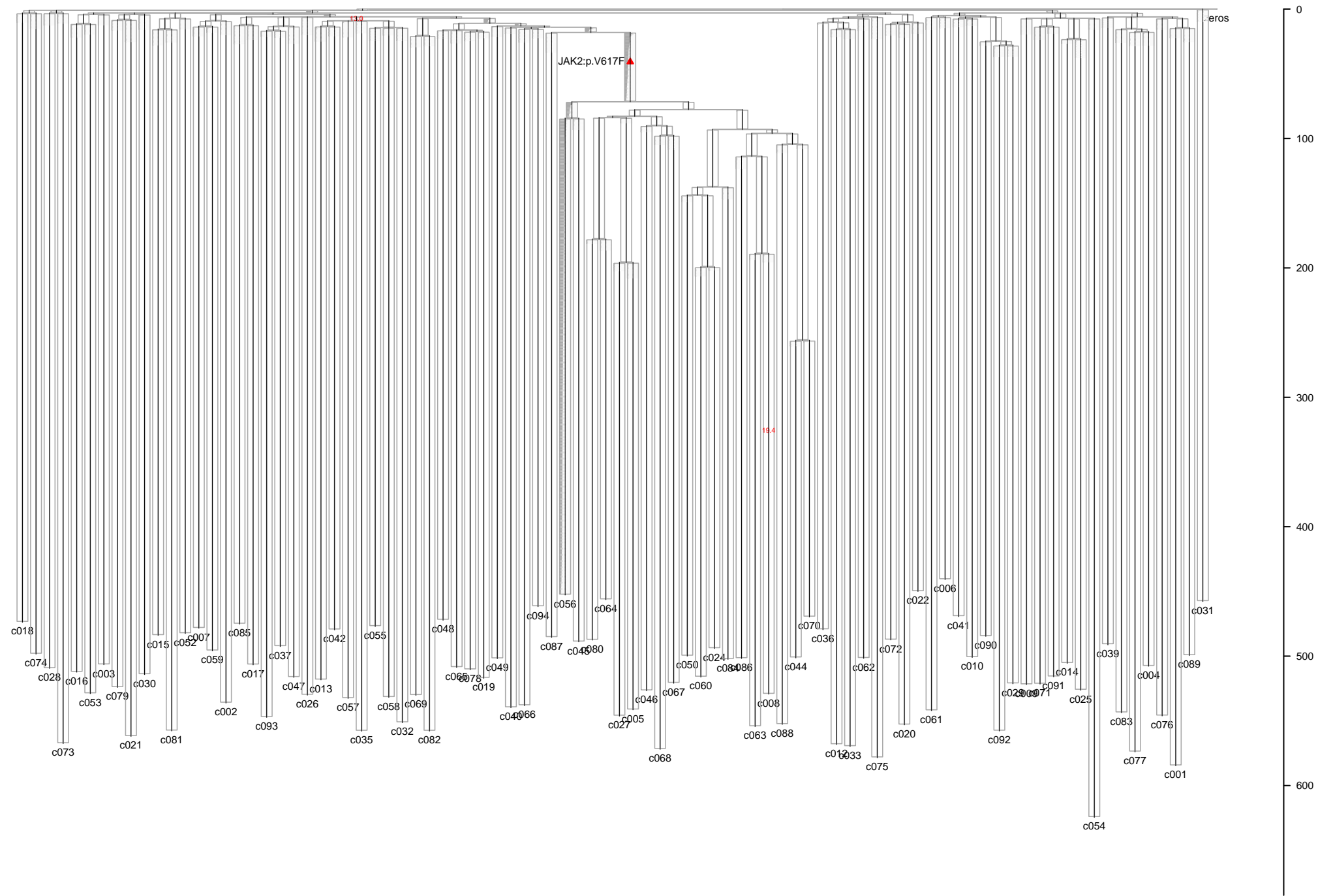


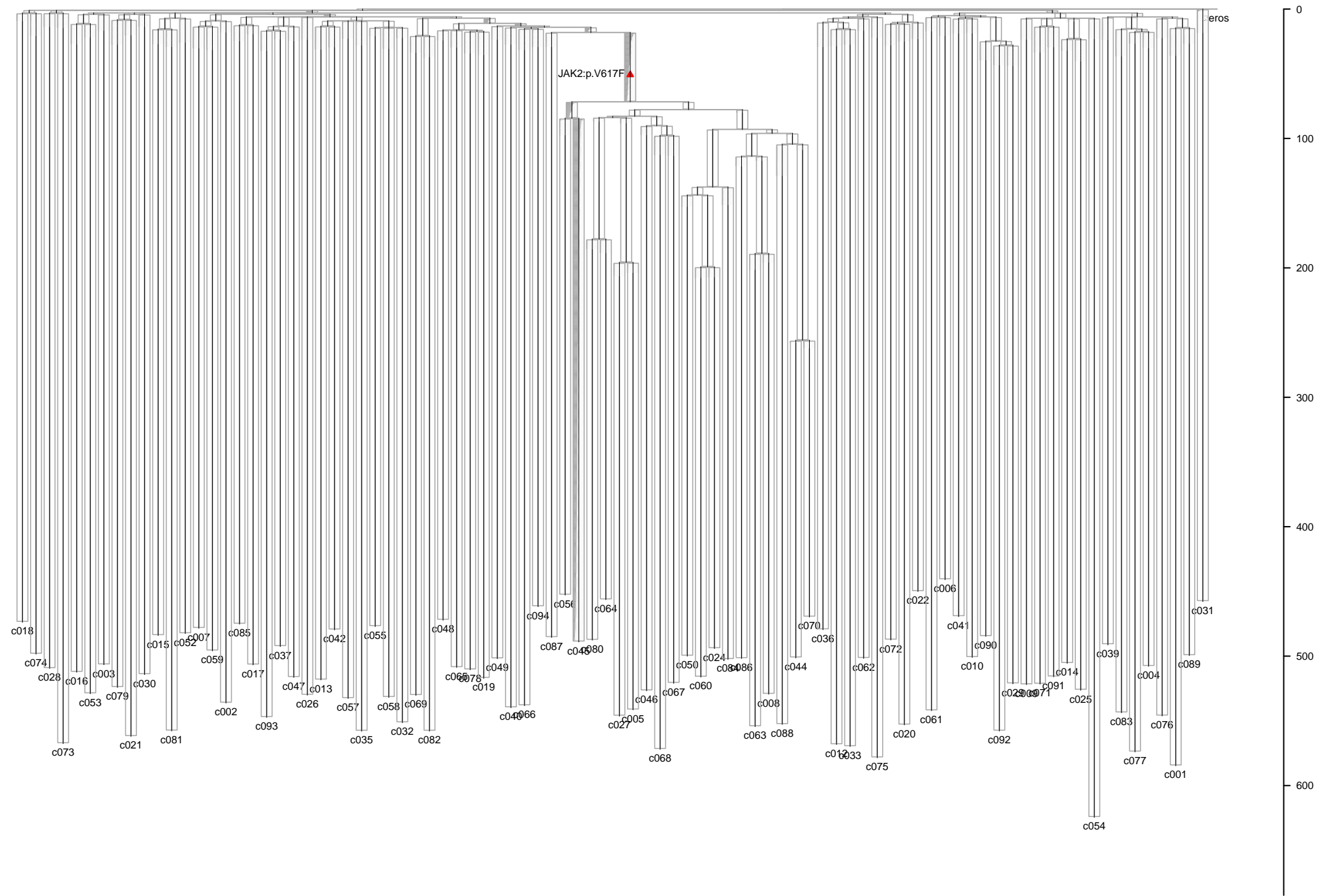


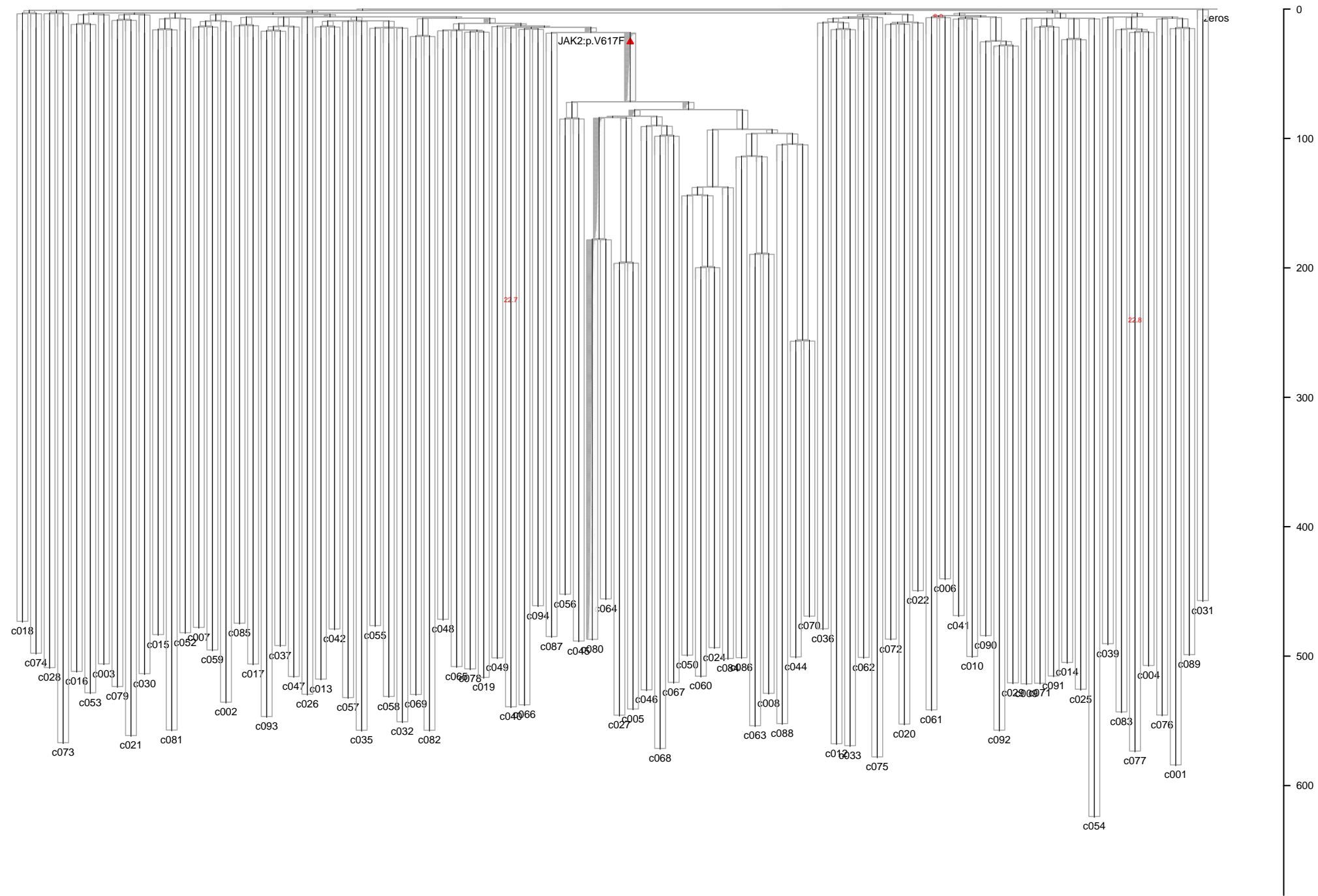


**Mean Depth=18.34**

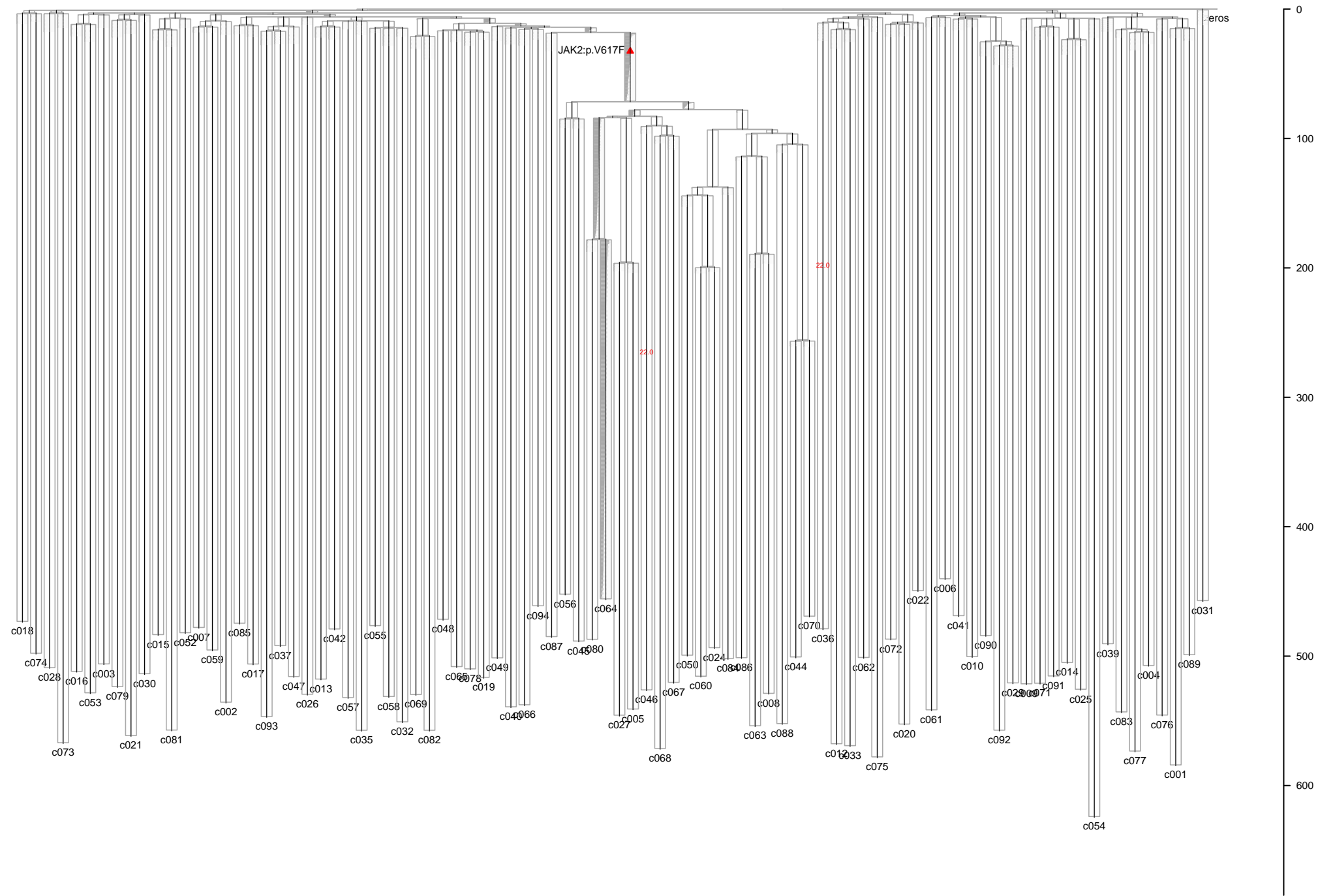


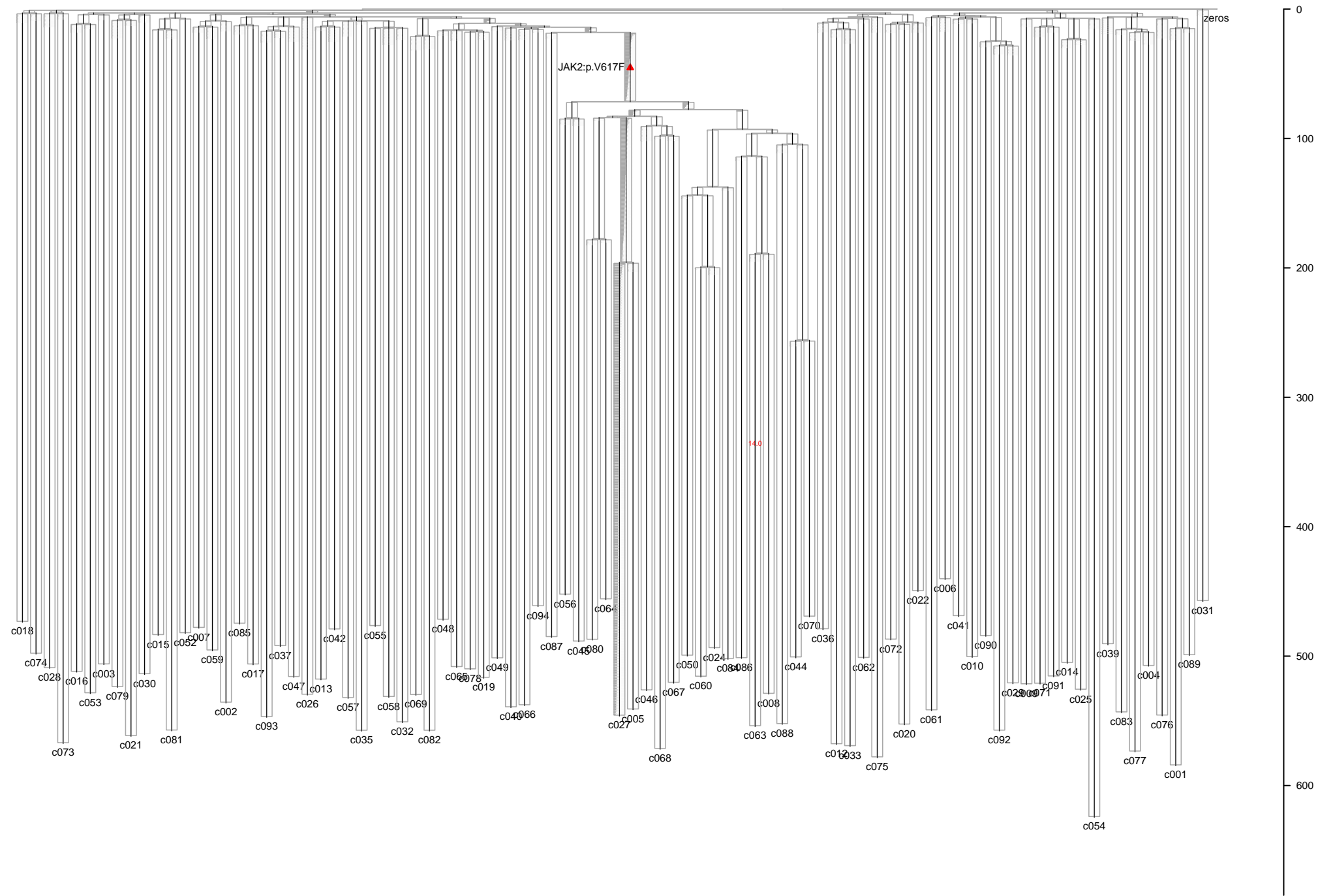


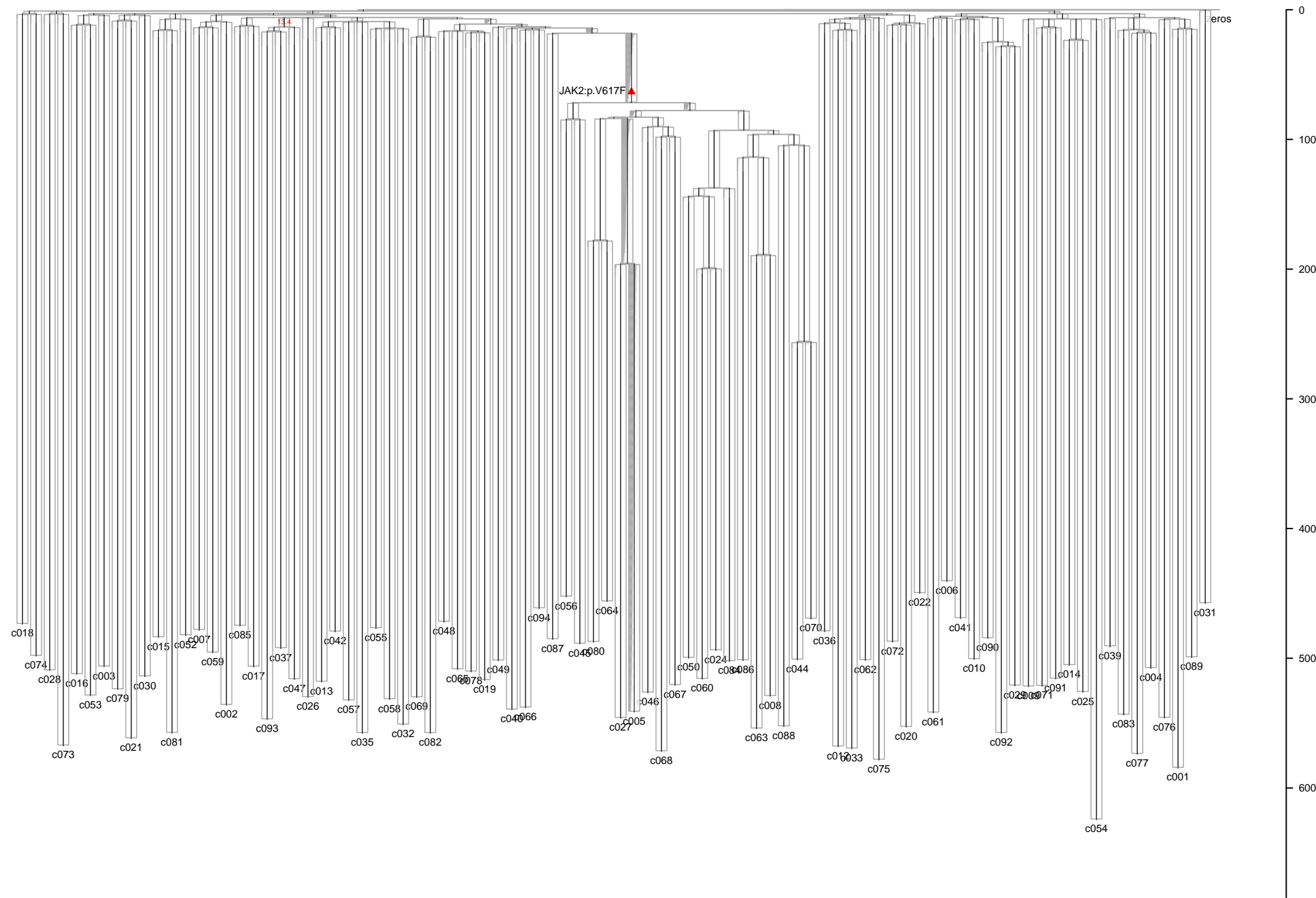


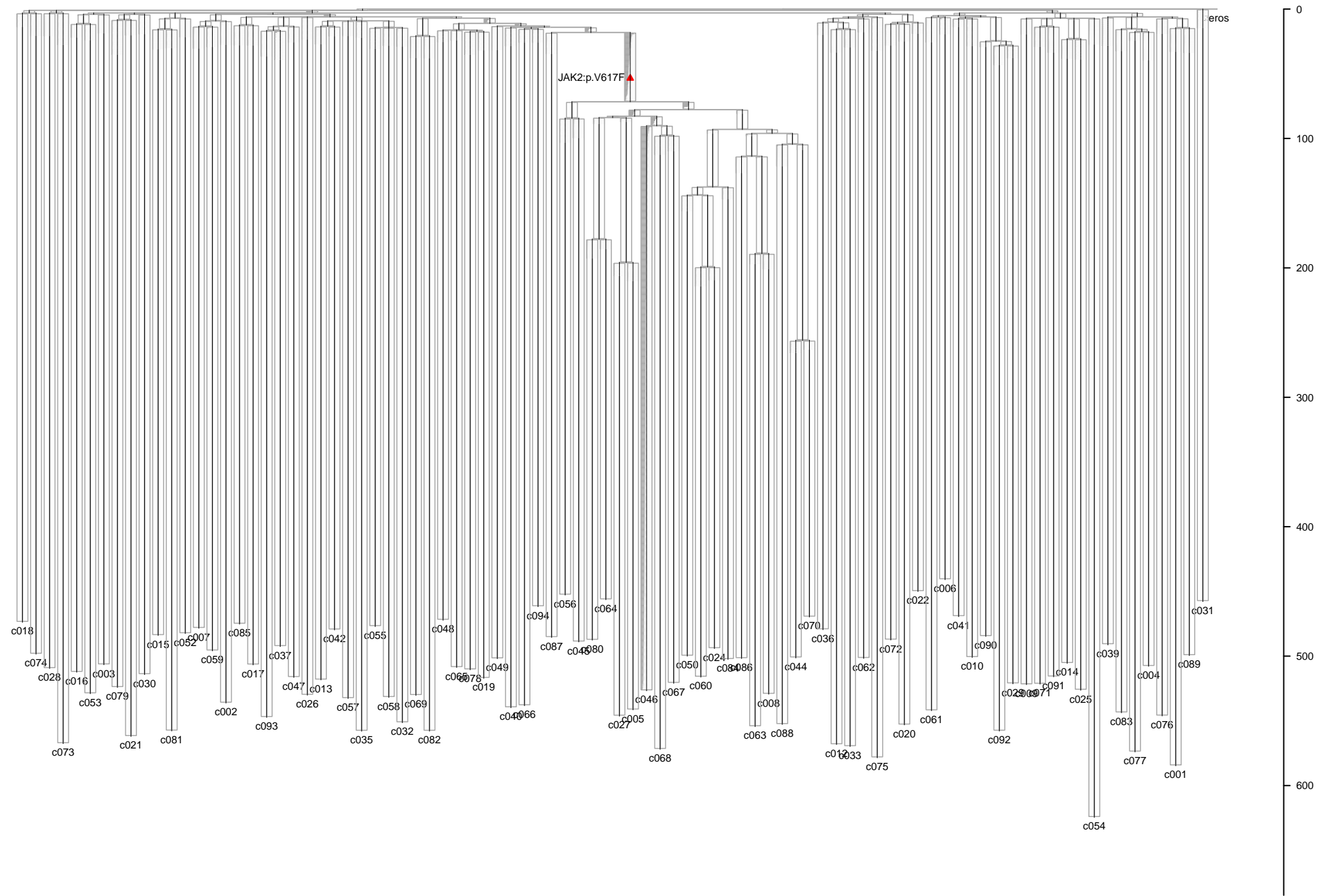


PD7271: Annotated with VAF from c06  
Mean Depth=22.67

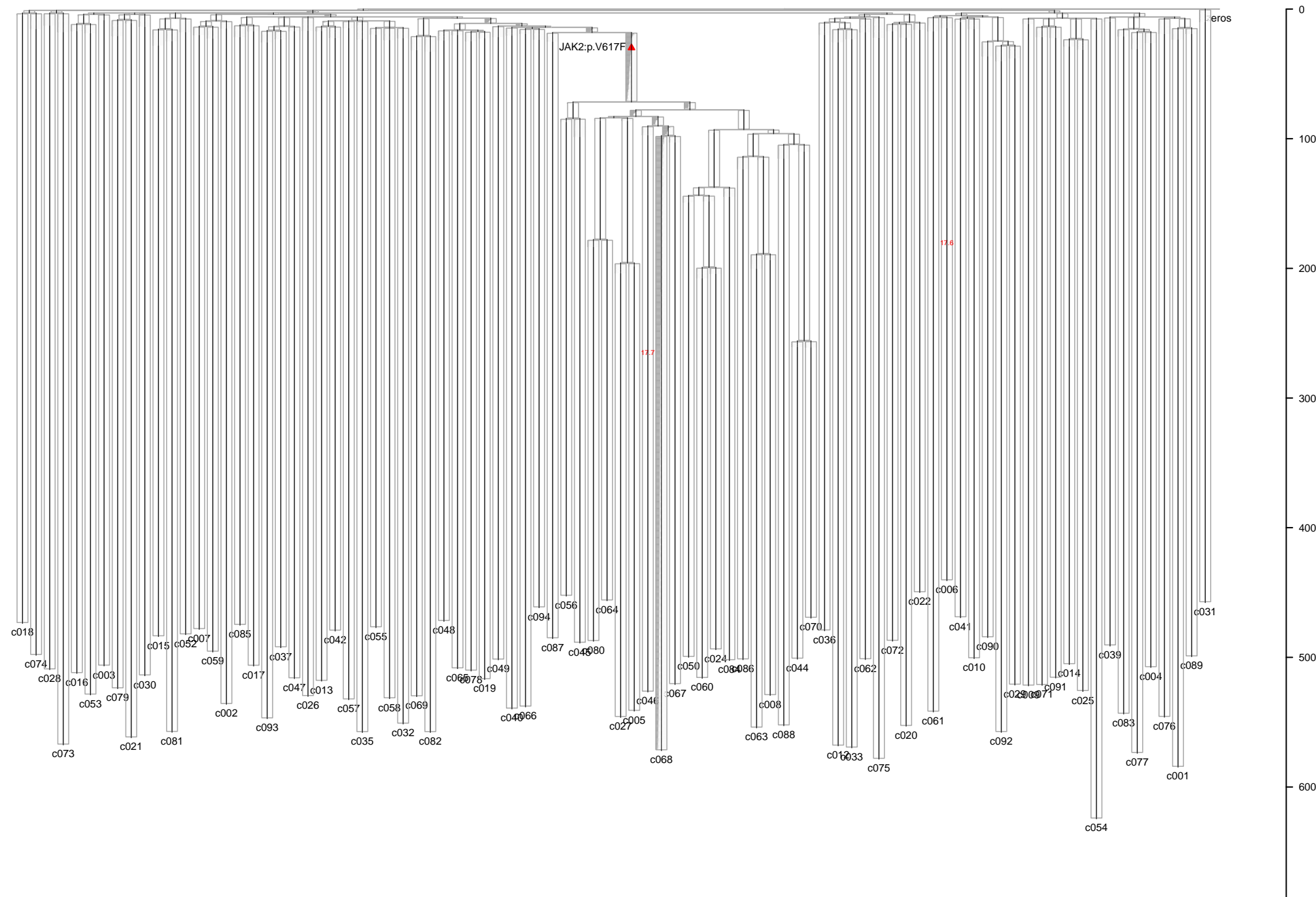




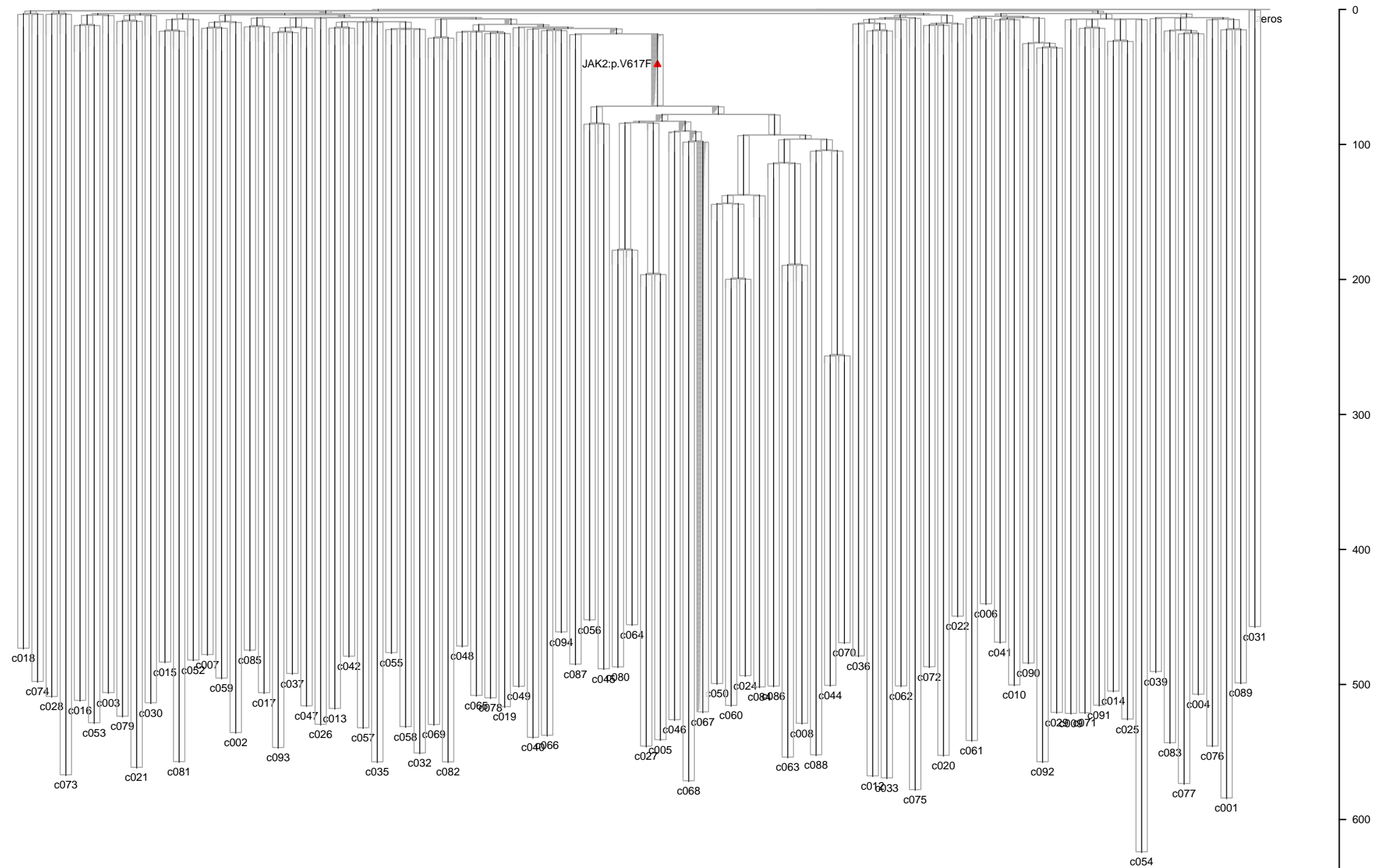




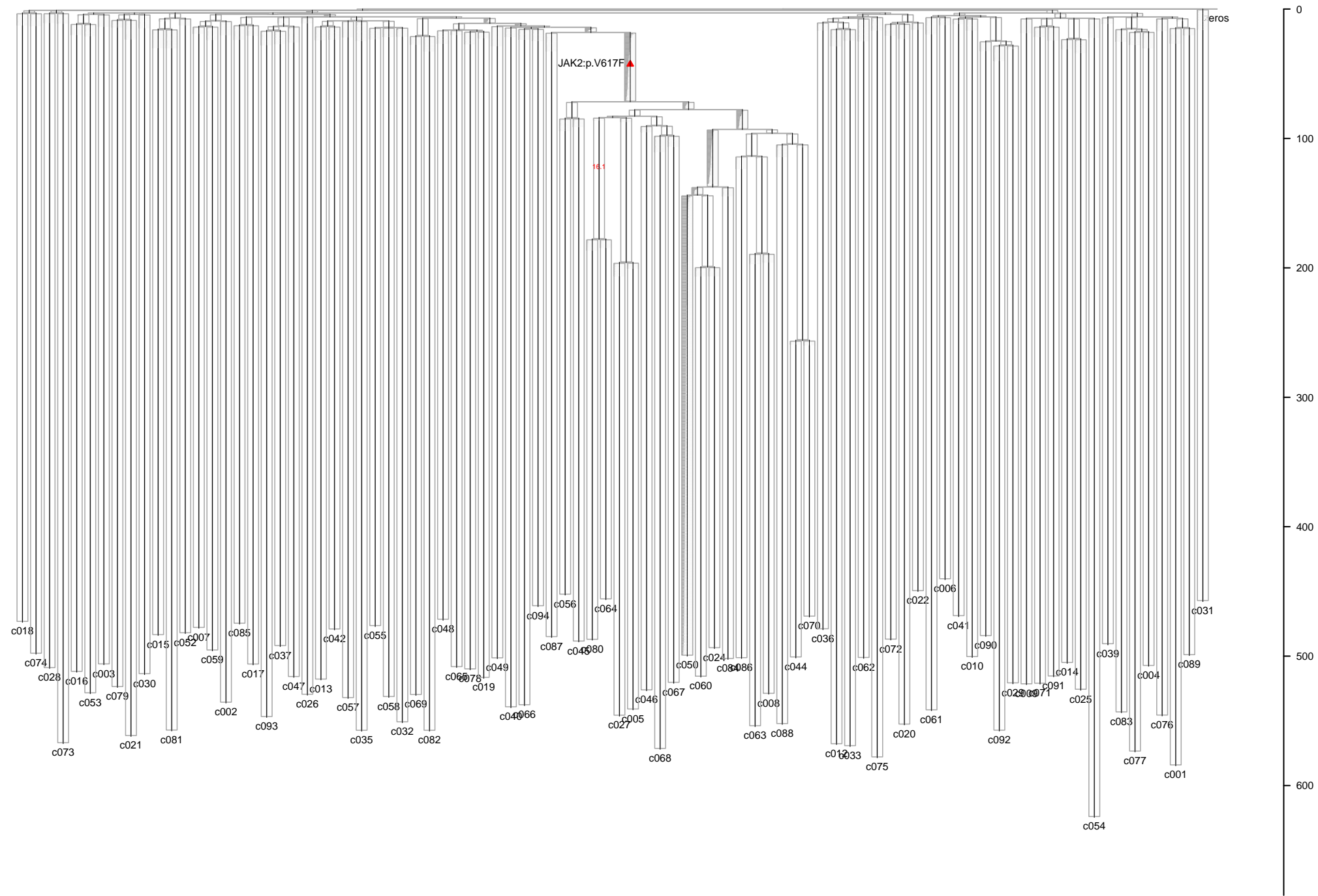




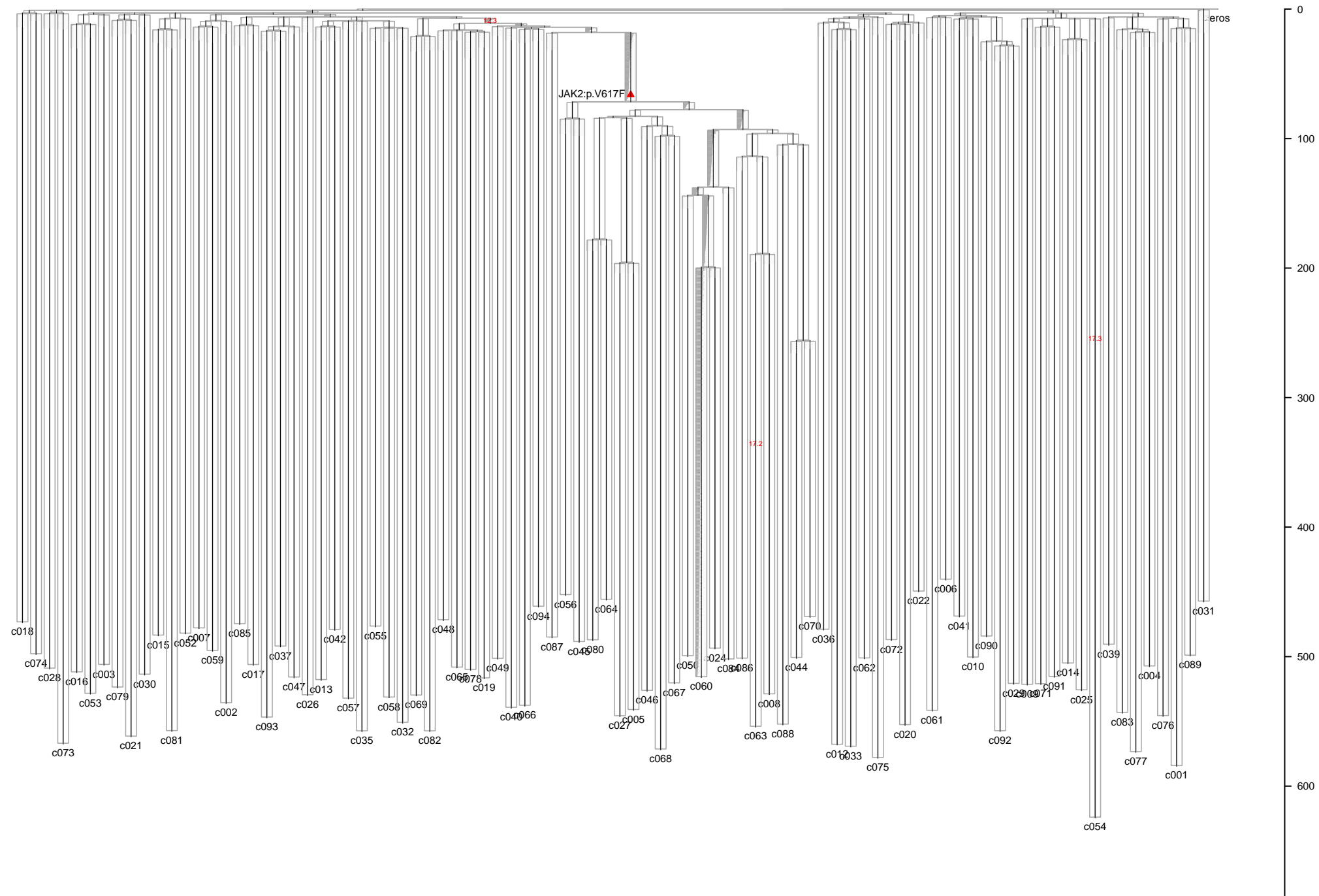
PD7271: Annotated with VAF from c06  
Mean Depth=16.95

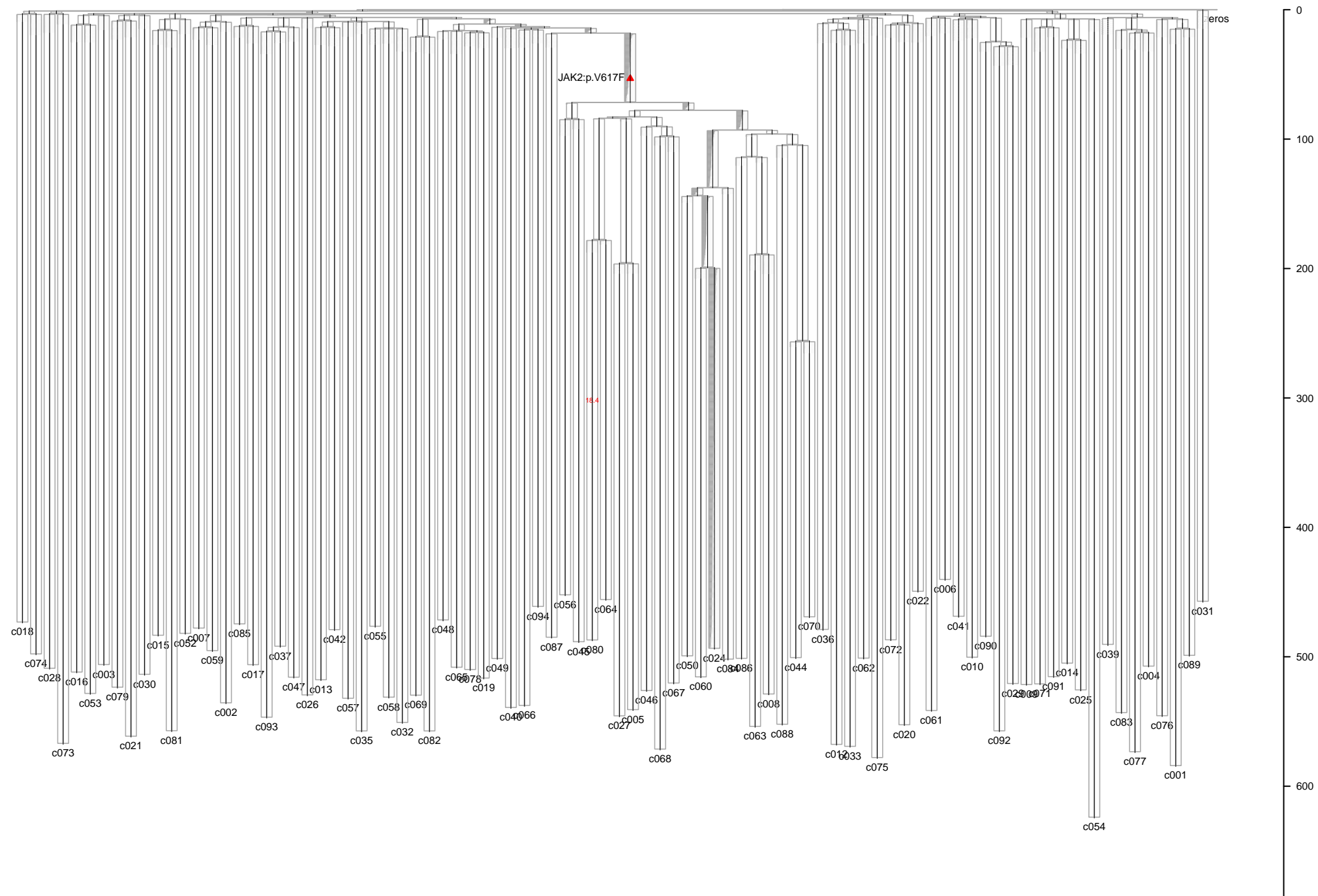


PD7271: Annotated with VAF from c05  
Mean Depth=17.37

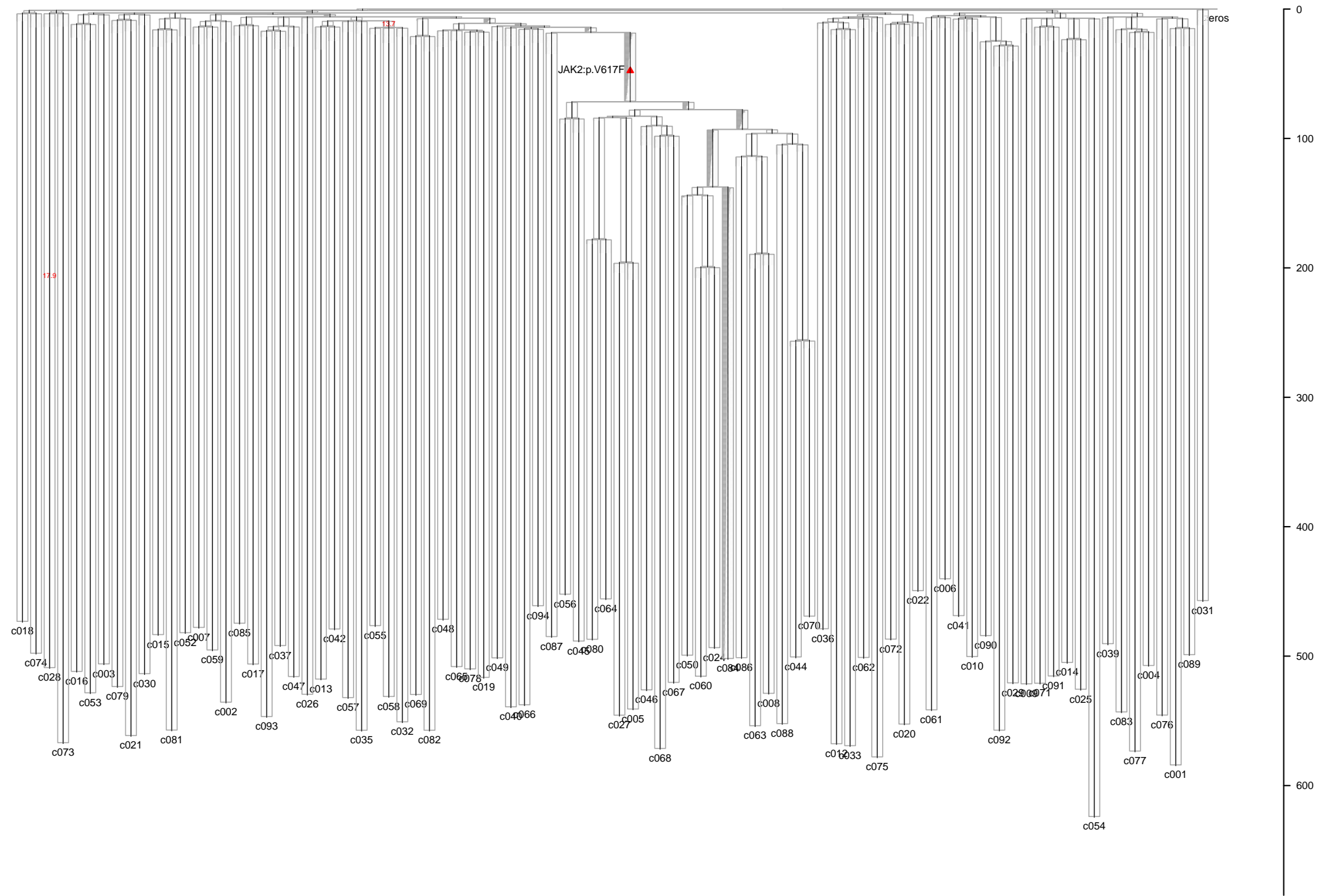


PD7271: Annotated with VAF from c00  
Mean Depth=17.83

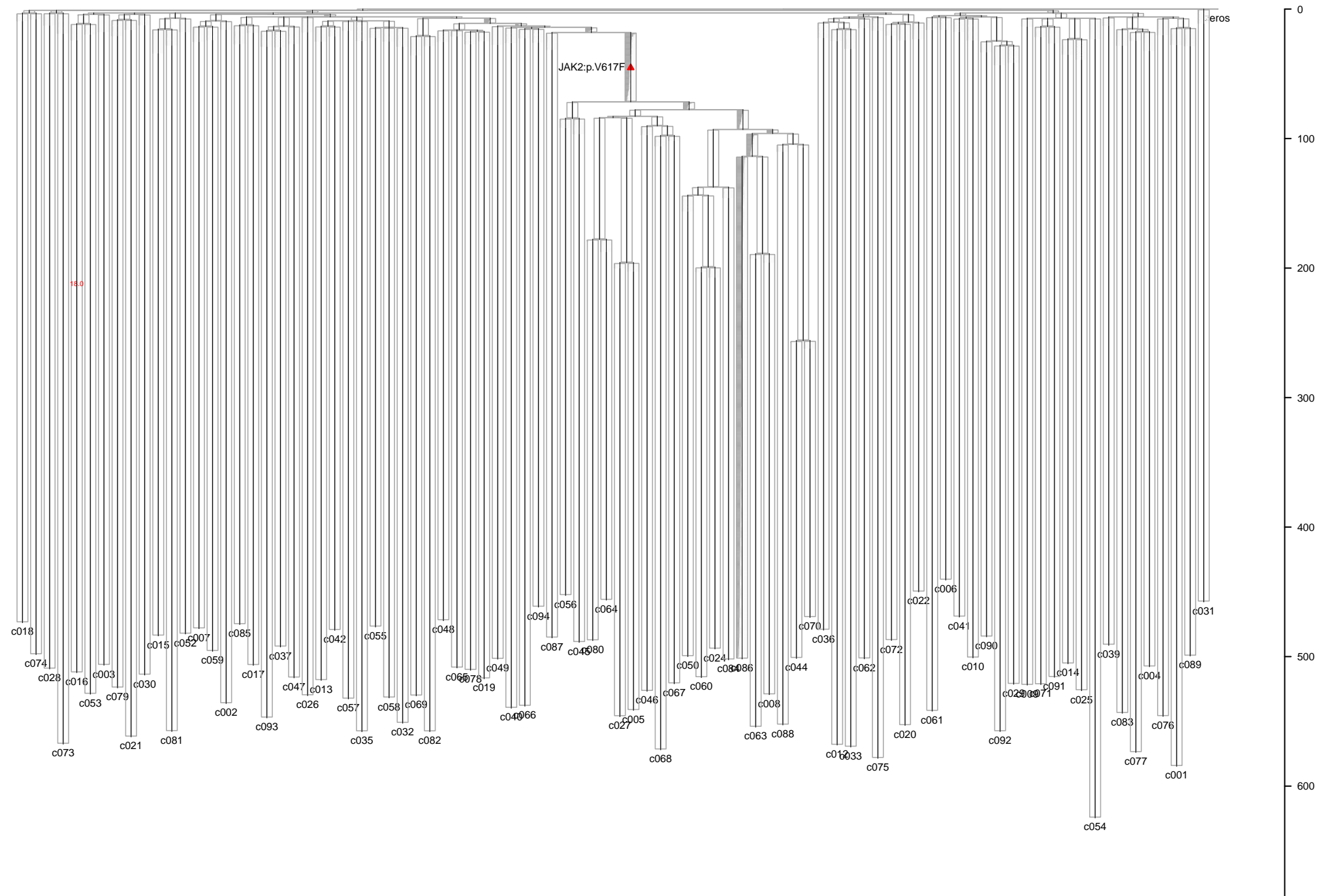


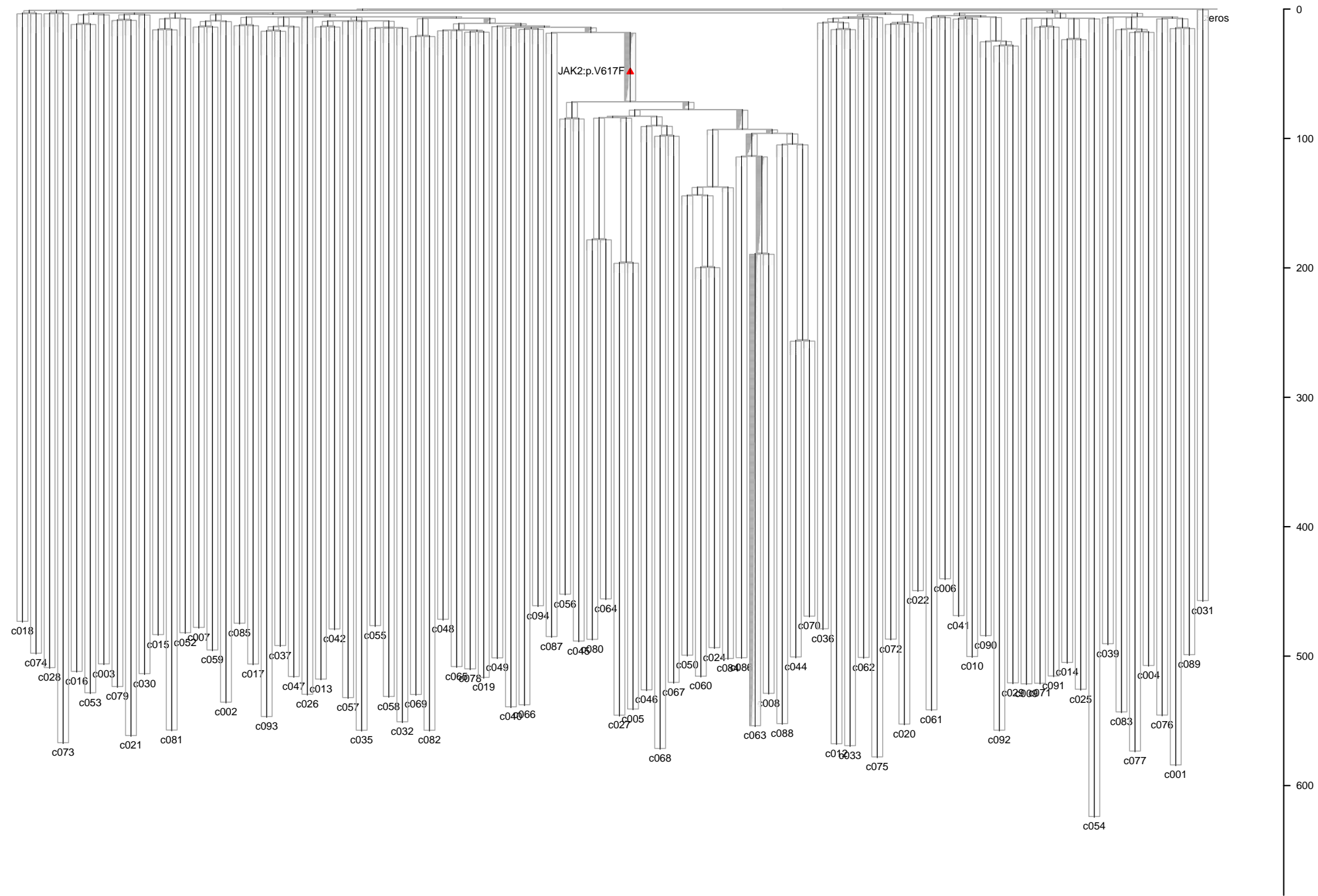


PD7271: Annotated with VAF from c08  
Mean Depth=18.39



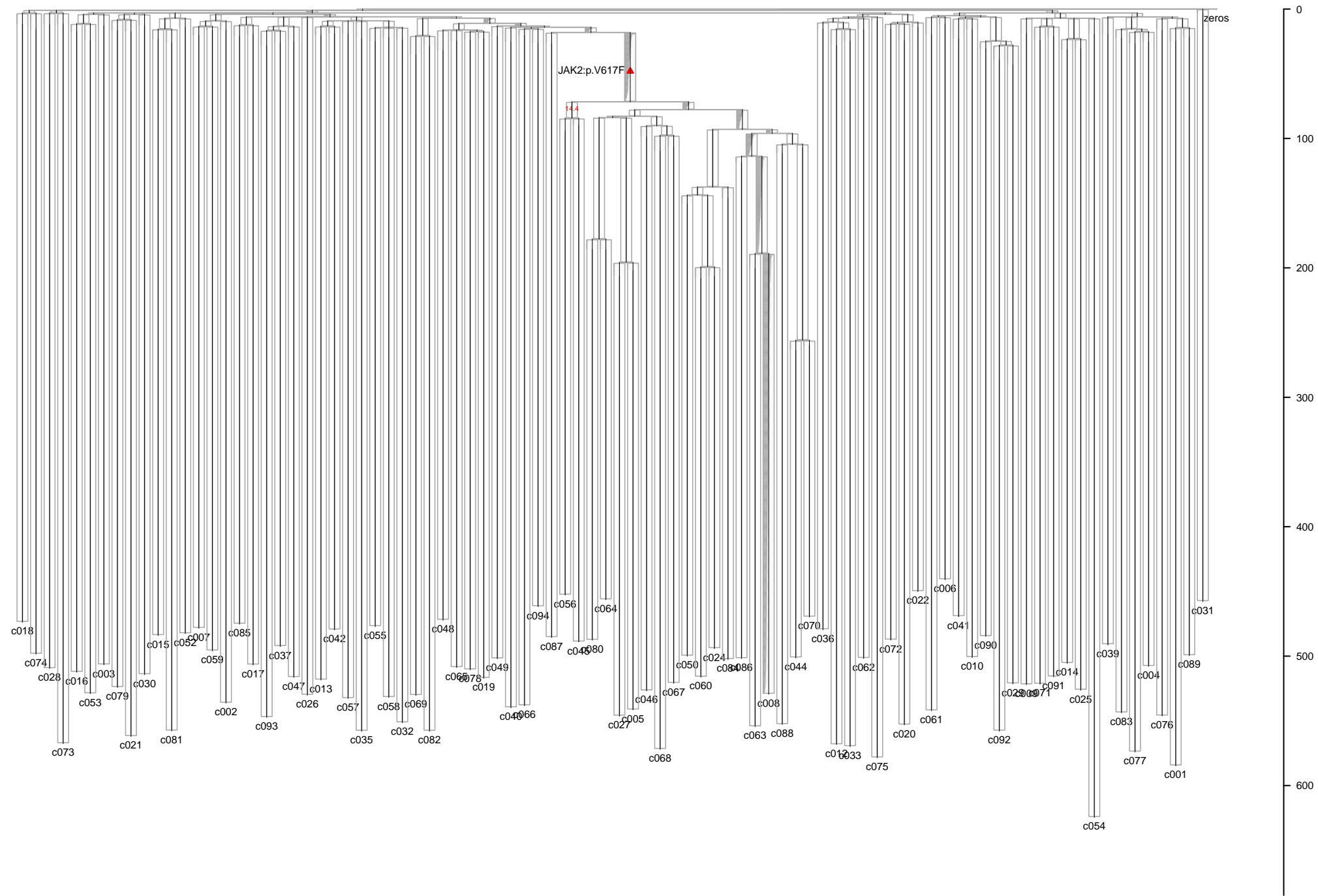
PD7271: Annotated with VAF from c08  
Mean Depth=18.58



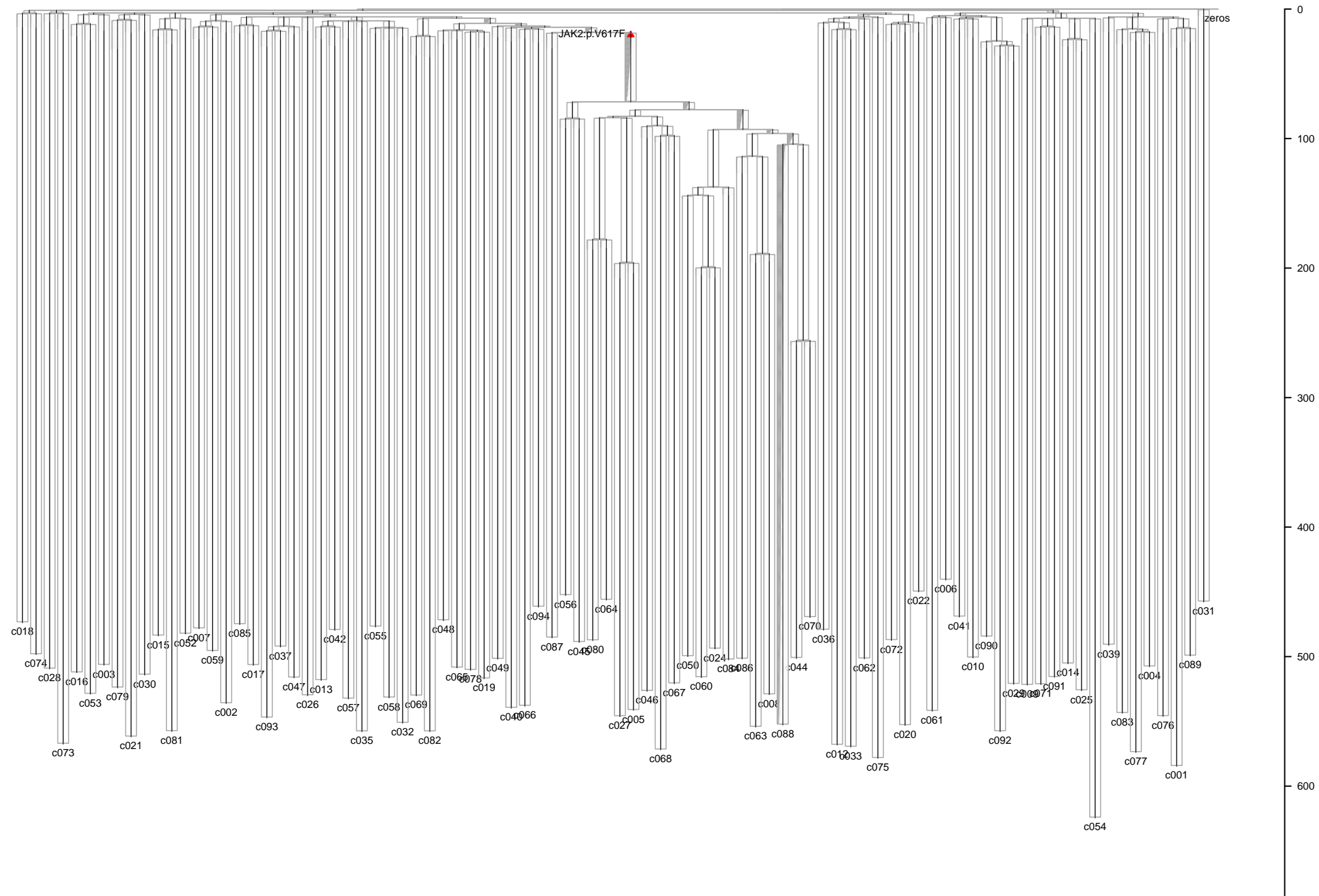




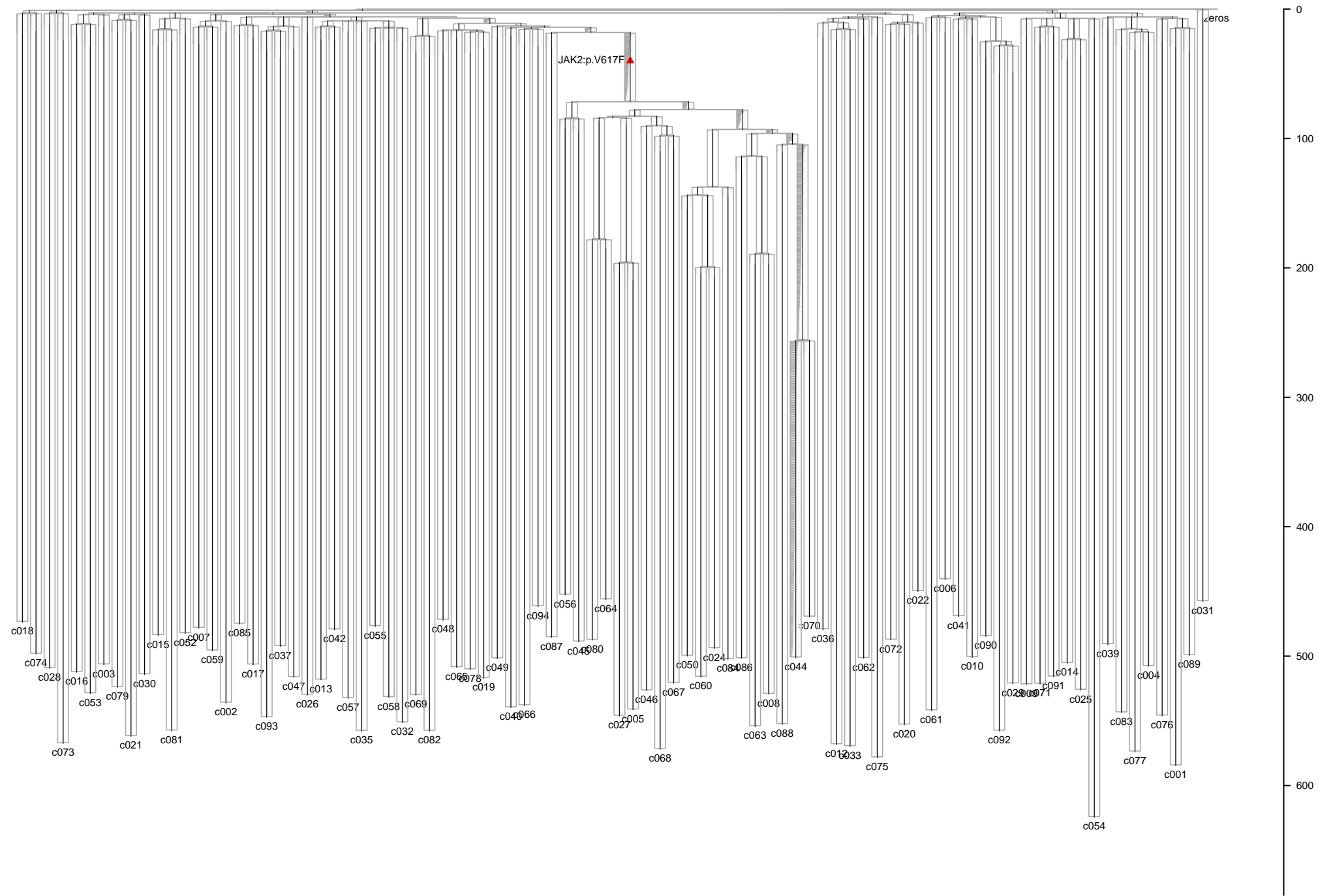
PD7271: Annotated with VAF from c00  
Mean Depth=17.63



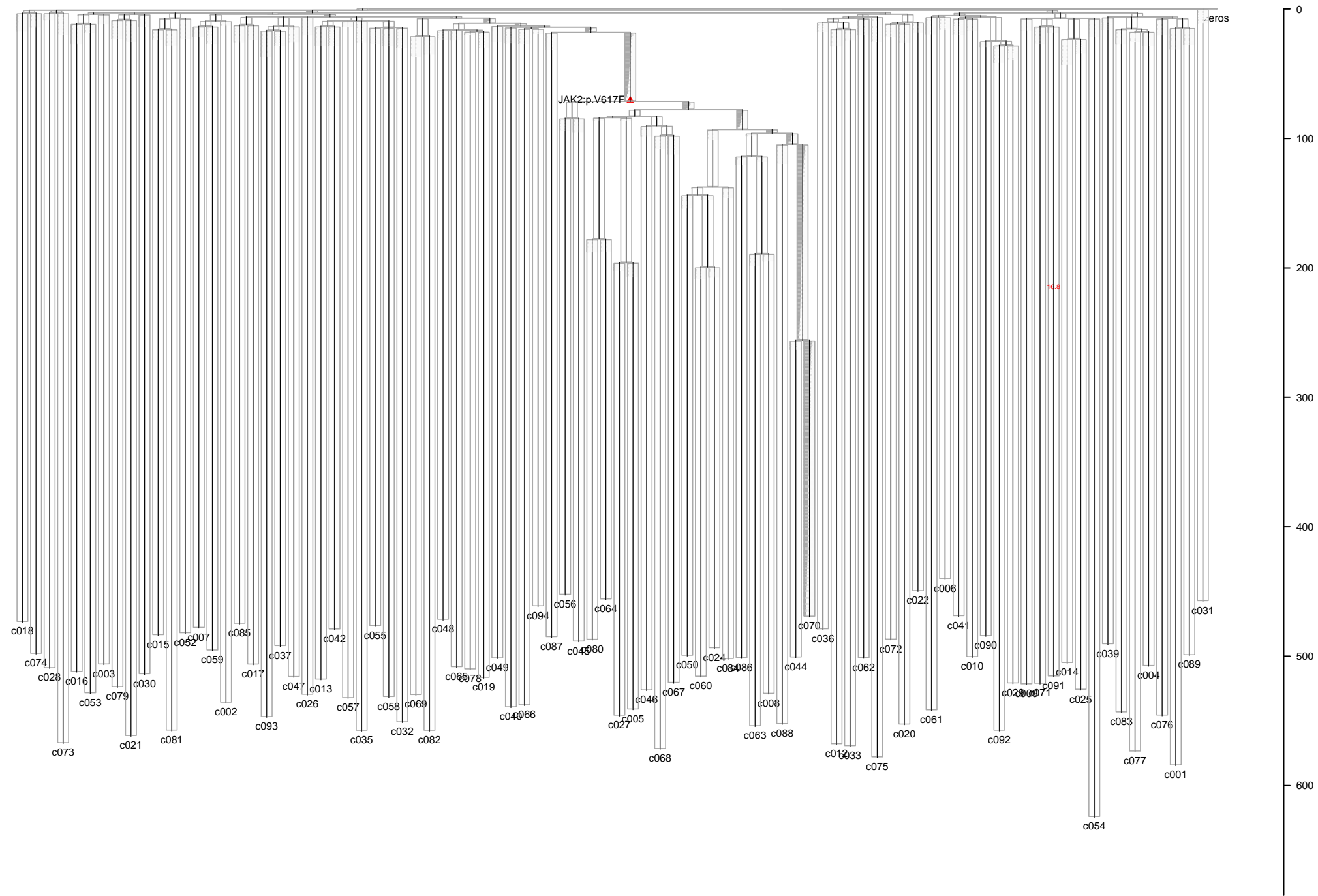
PD7271: Annotated with VAF from c08  
Mean Depth=21.19



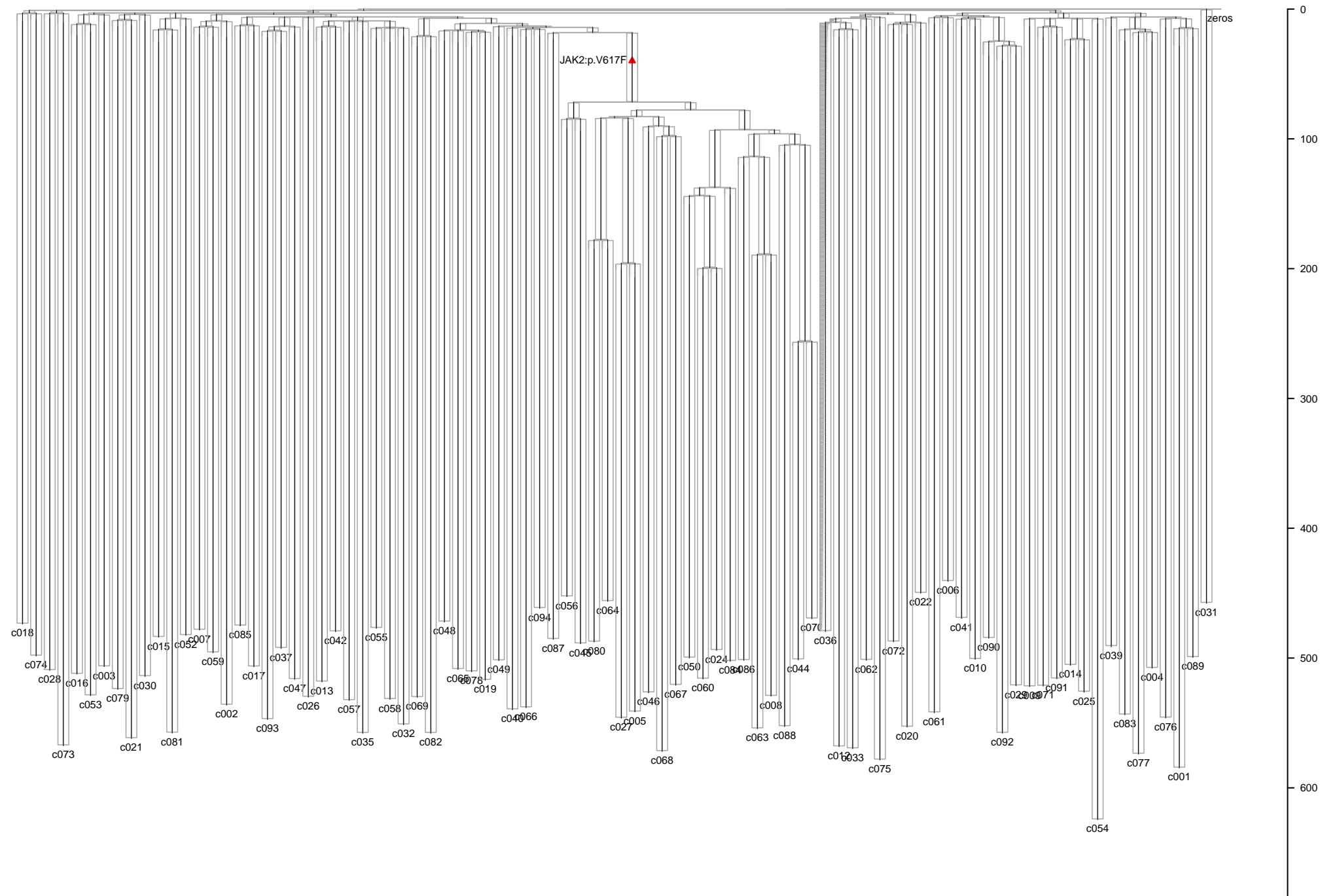
PD7271: Annotated with VAF from c044  
Mean Depth=14.76

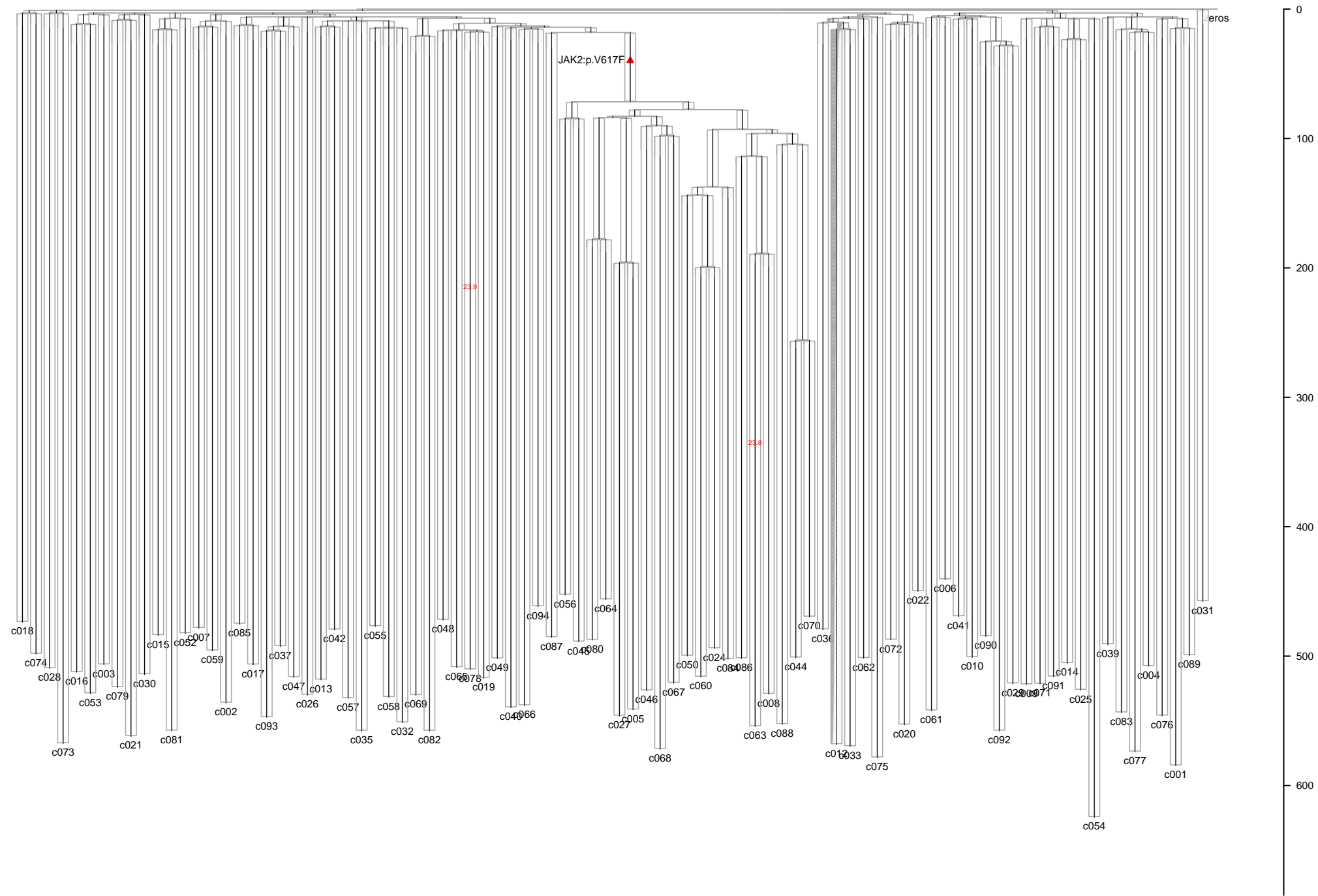


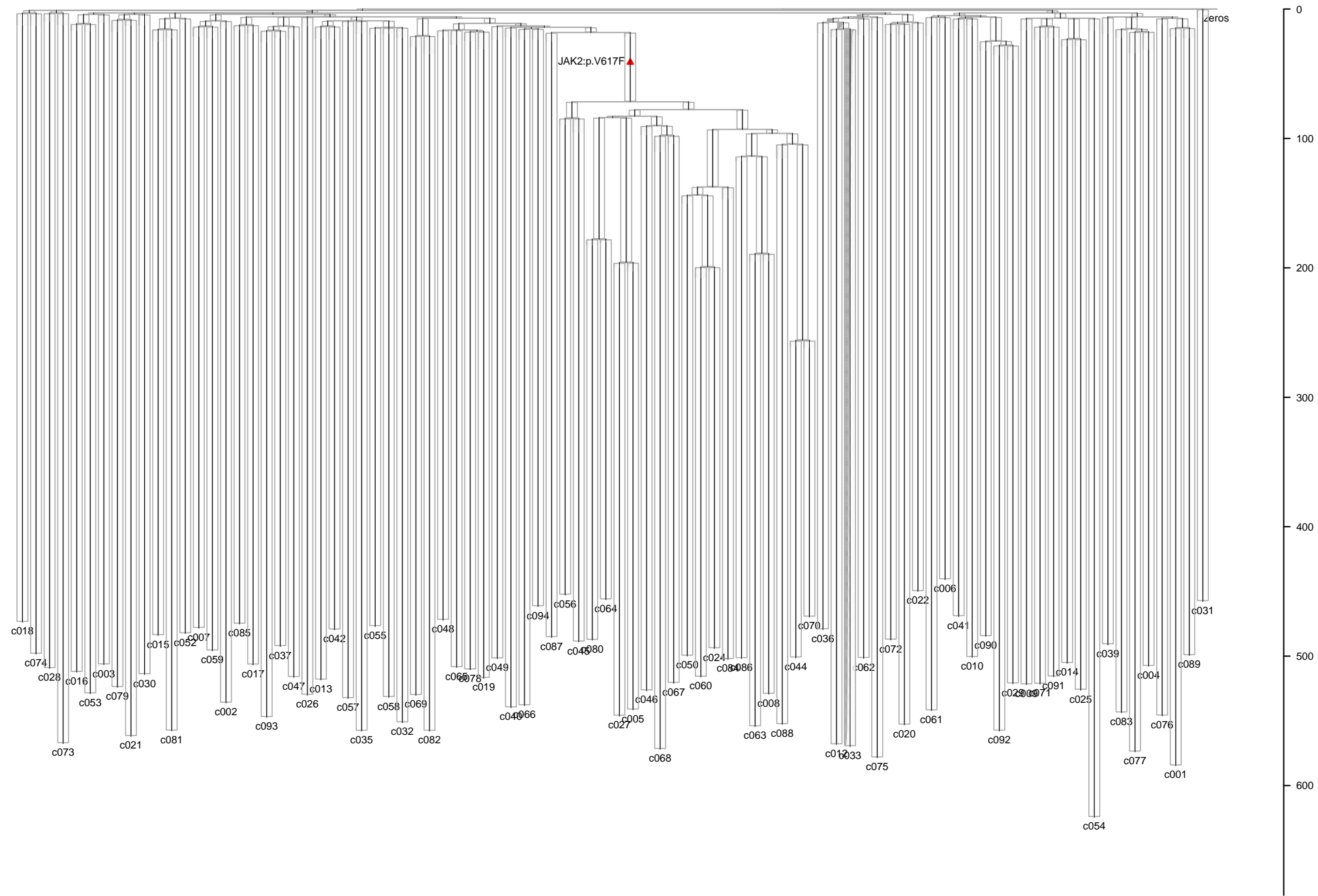
PD7271: Annotated with VAF from c07  
Mean Depth=17.35



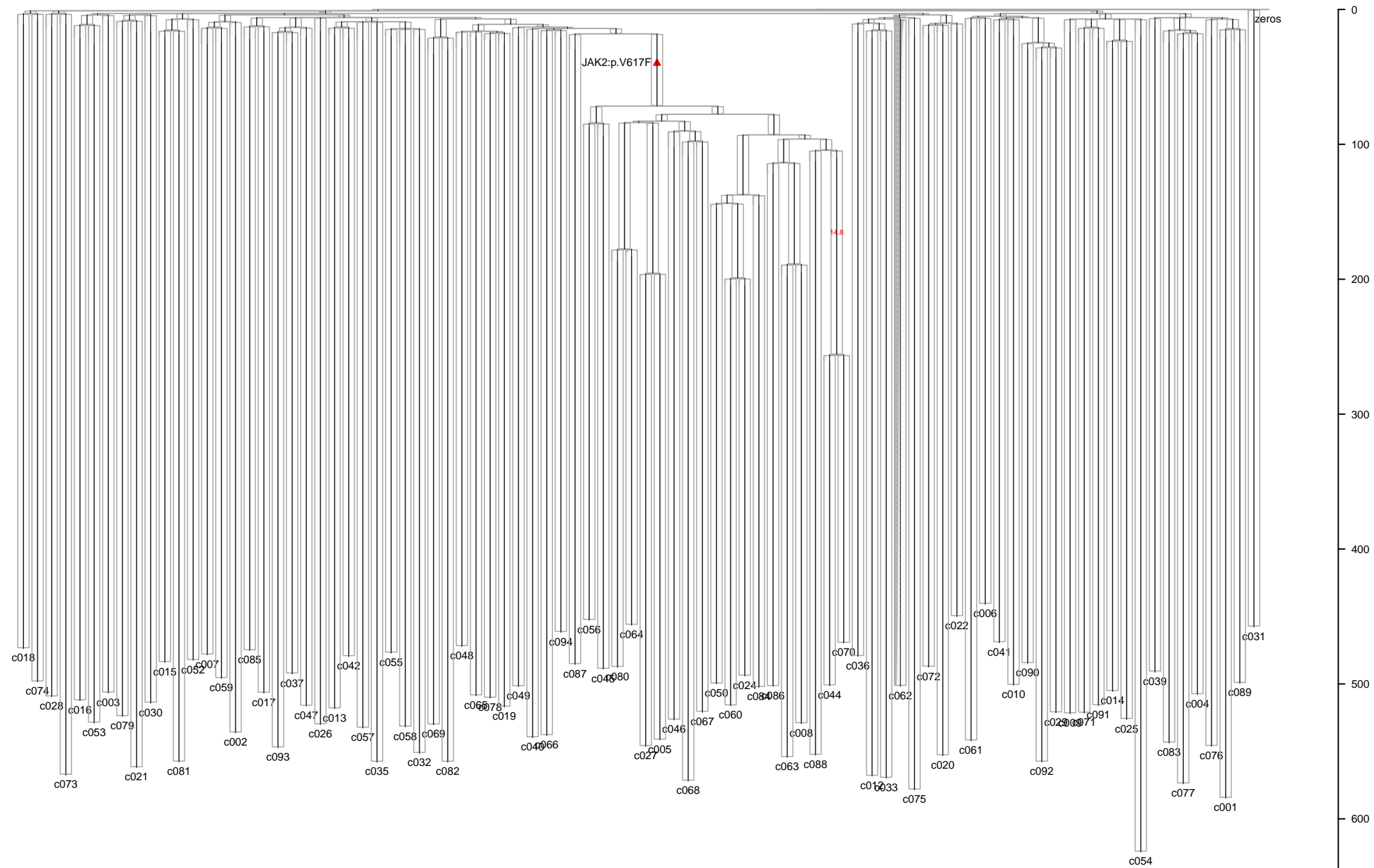
PD7271: Annotated with VAF from c03  
Mean Depth=14.99





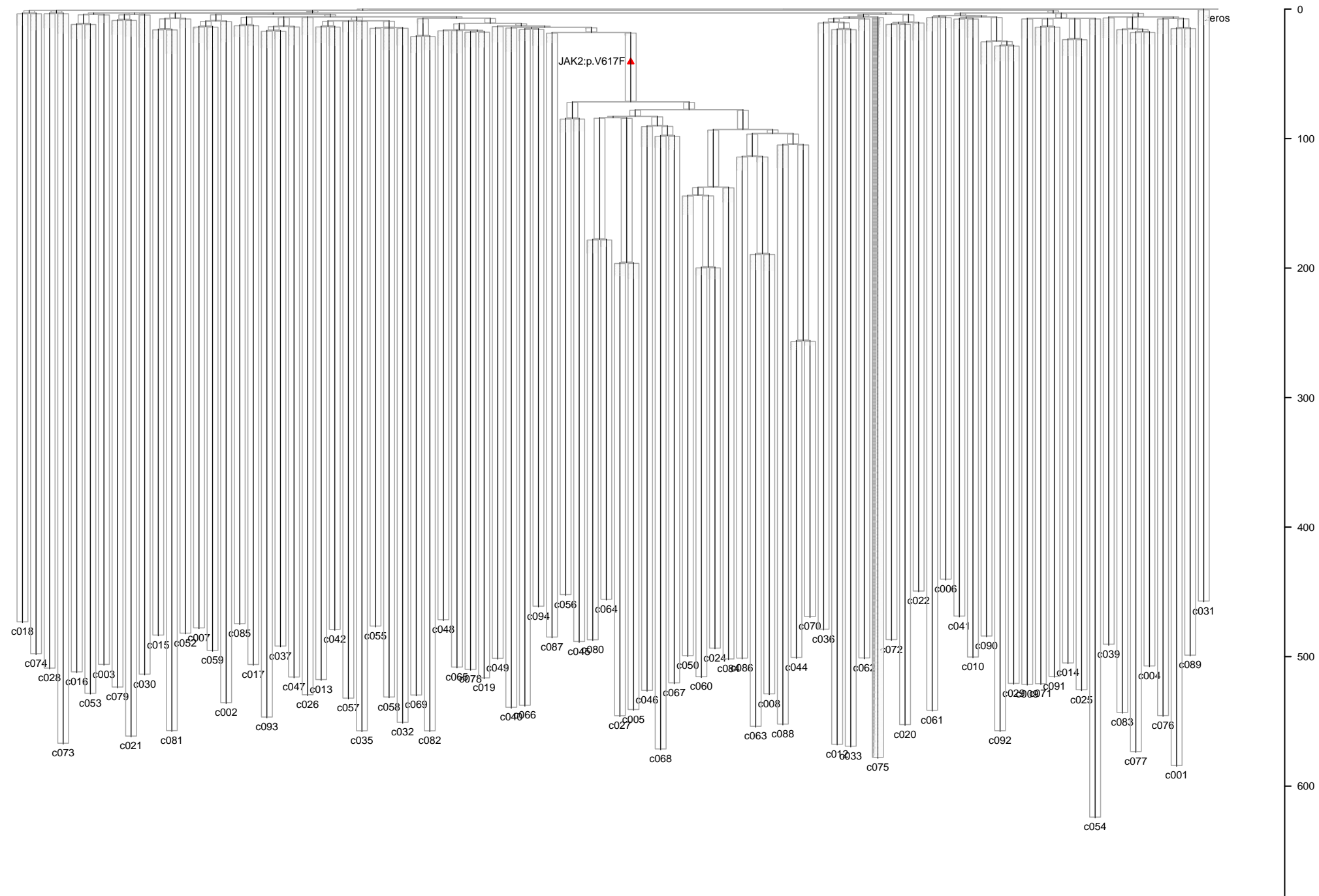


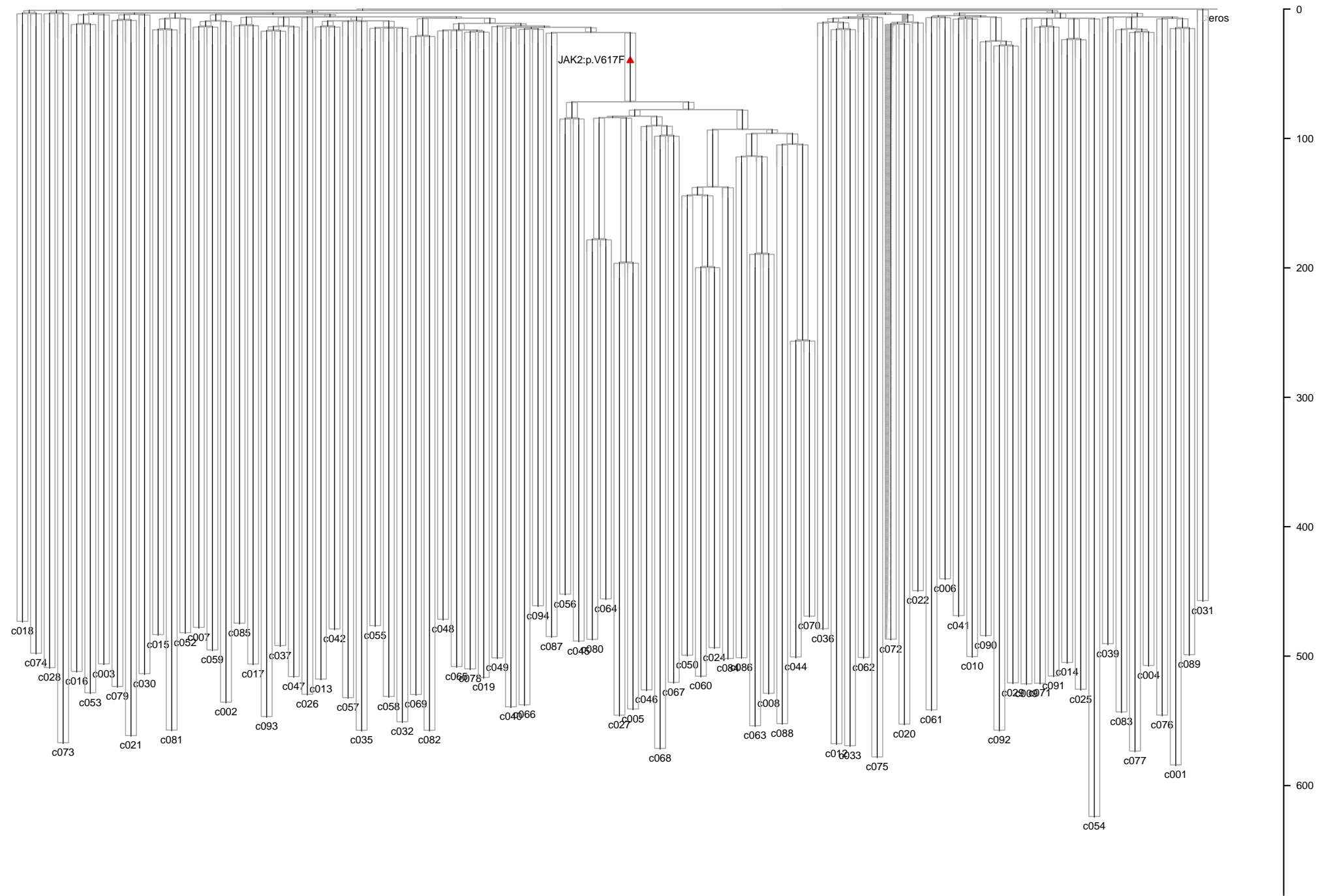
**Mean Depth=16.00**



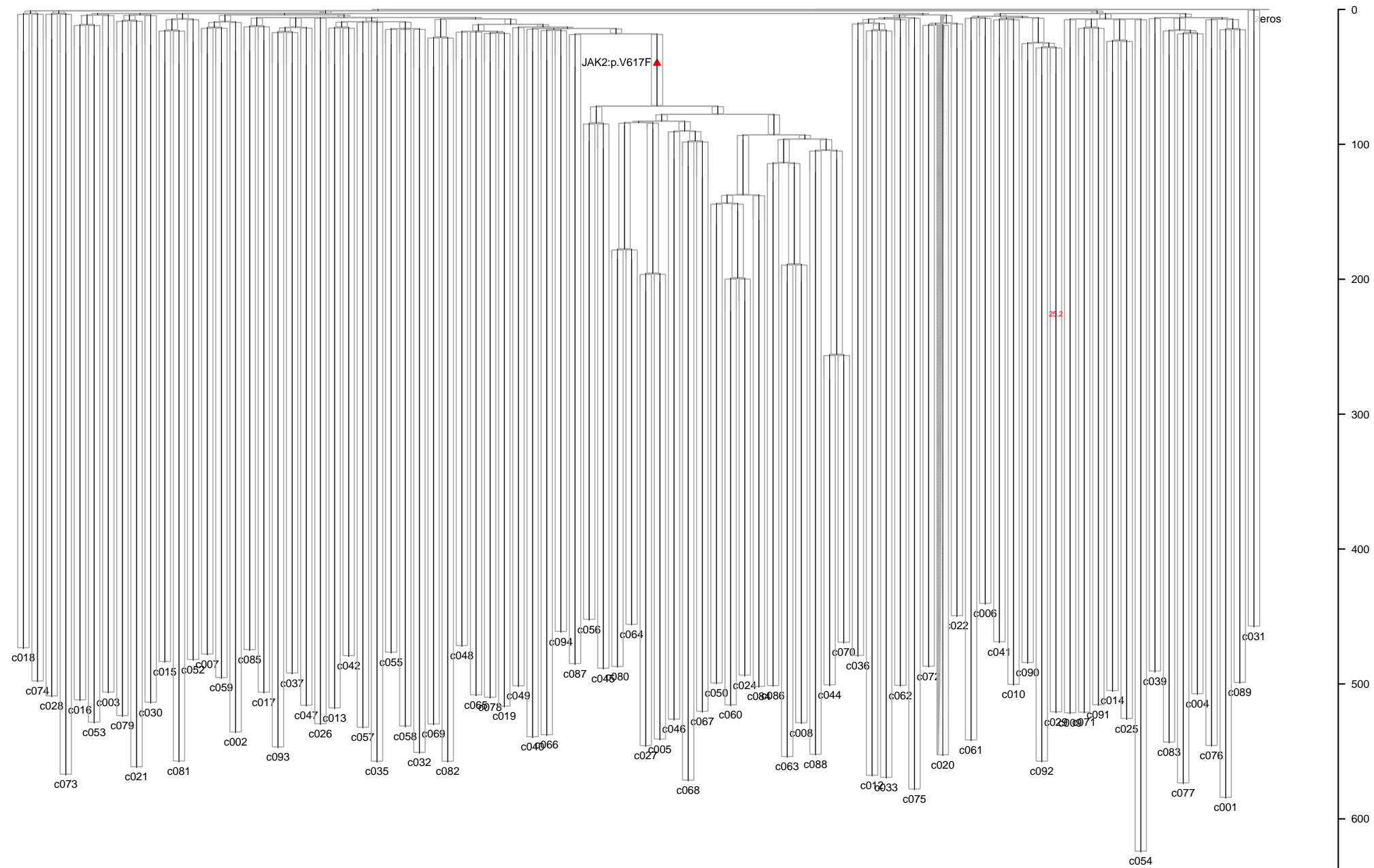


PD7271: Annotated with VAF from c07  
Mean Depth=19.84

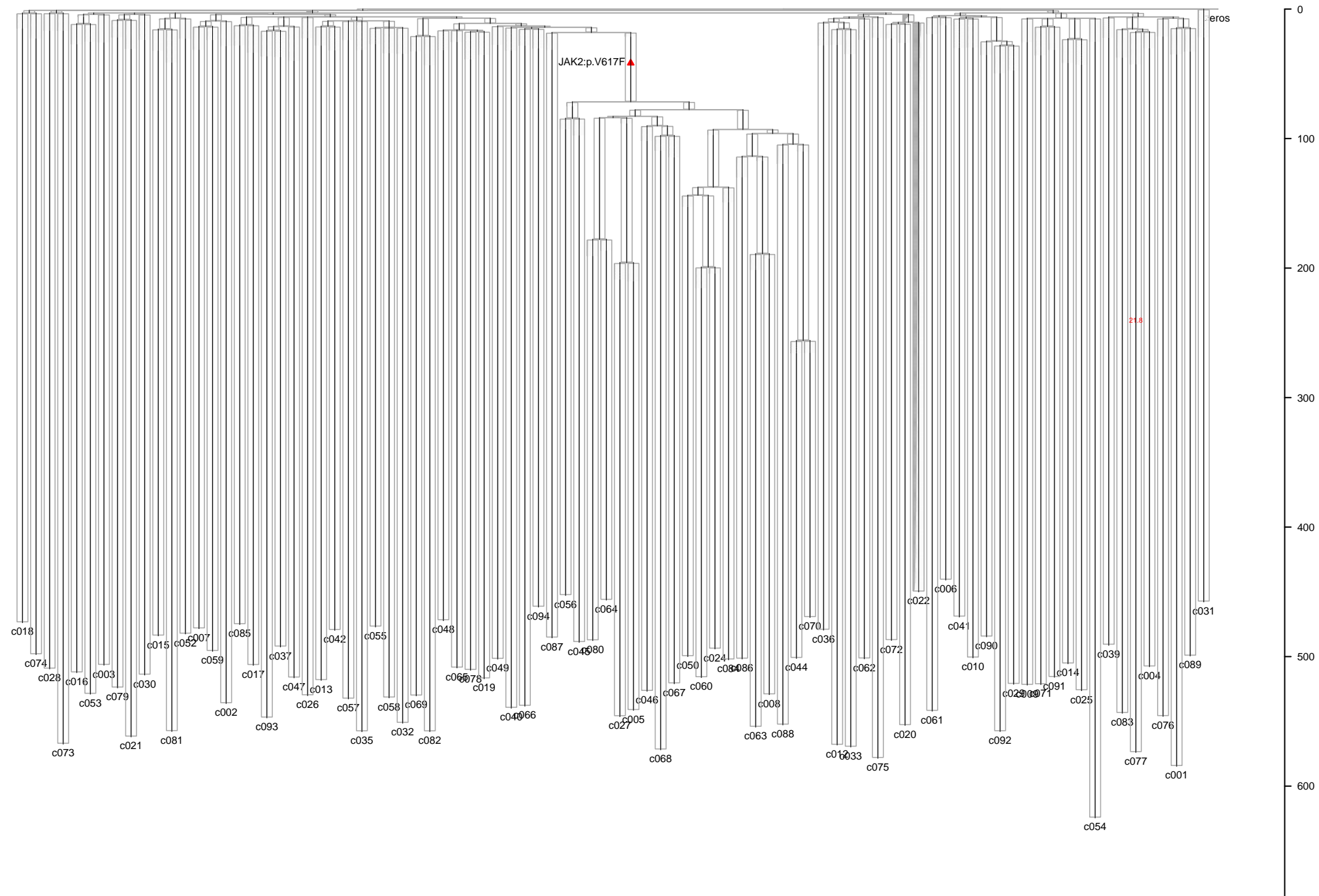




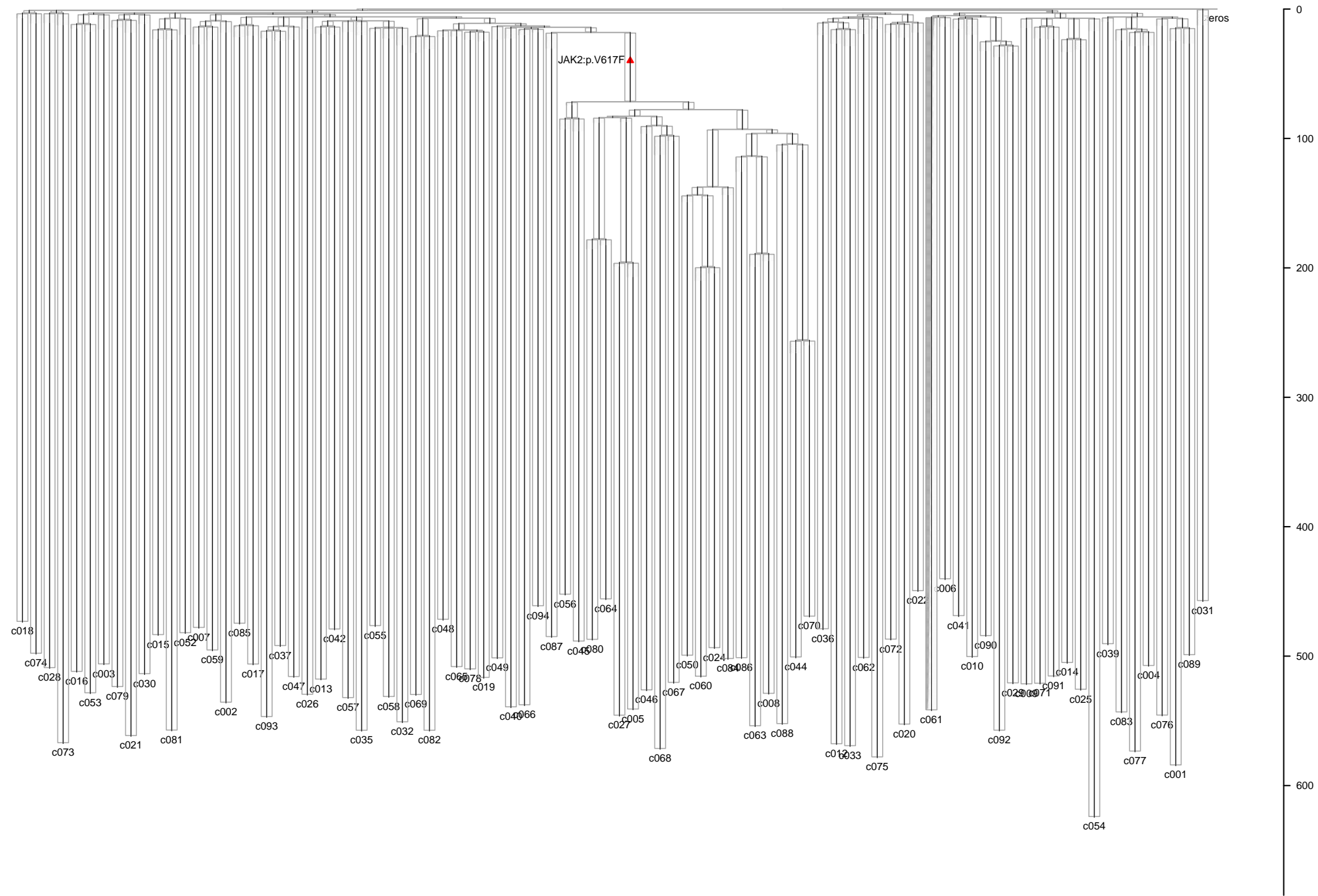
PD7271: Annotated with VAF from c02  
Mean Depth=25.99

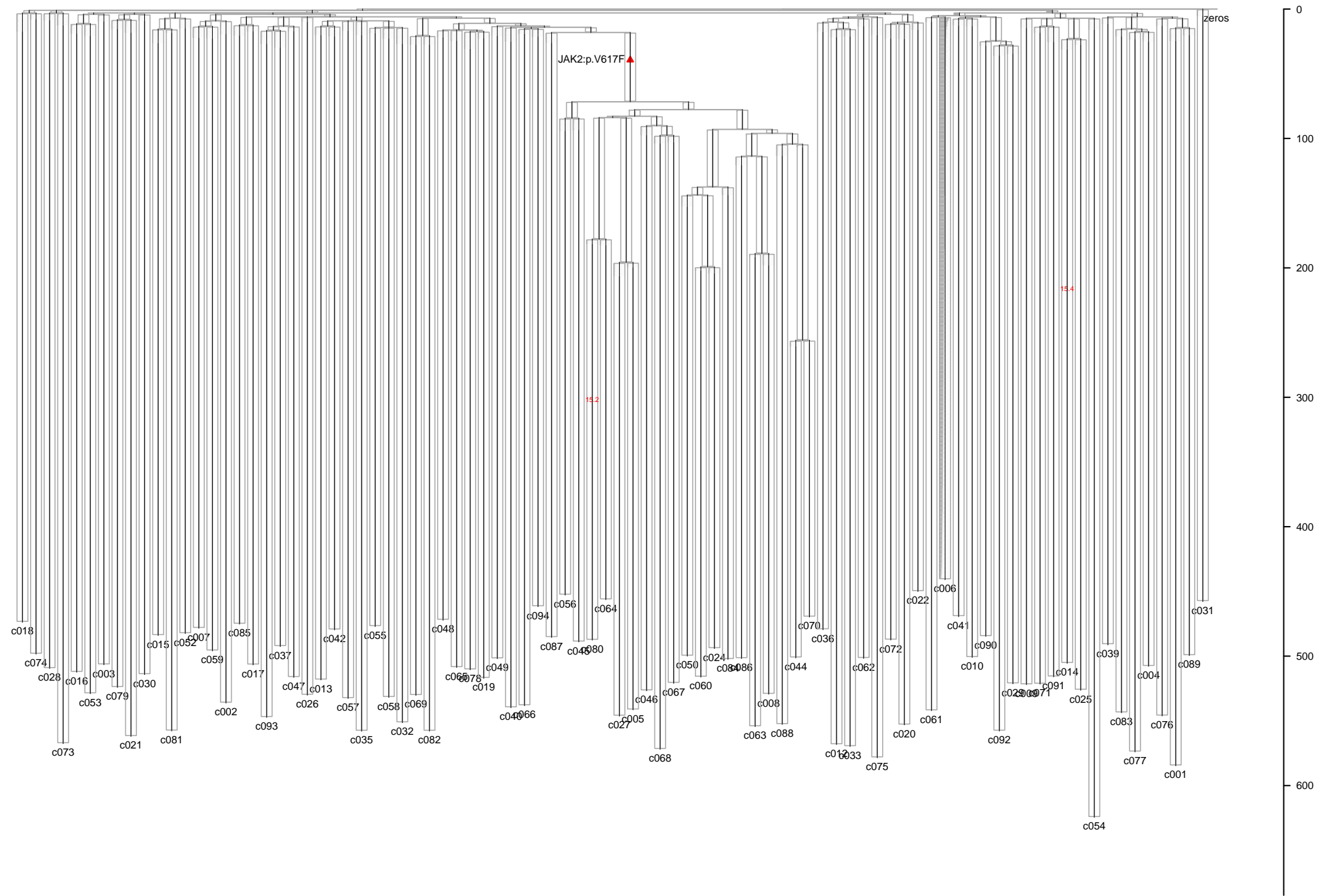


PD7271: Annotated with VAF from c02  
Mean Depth=22.51

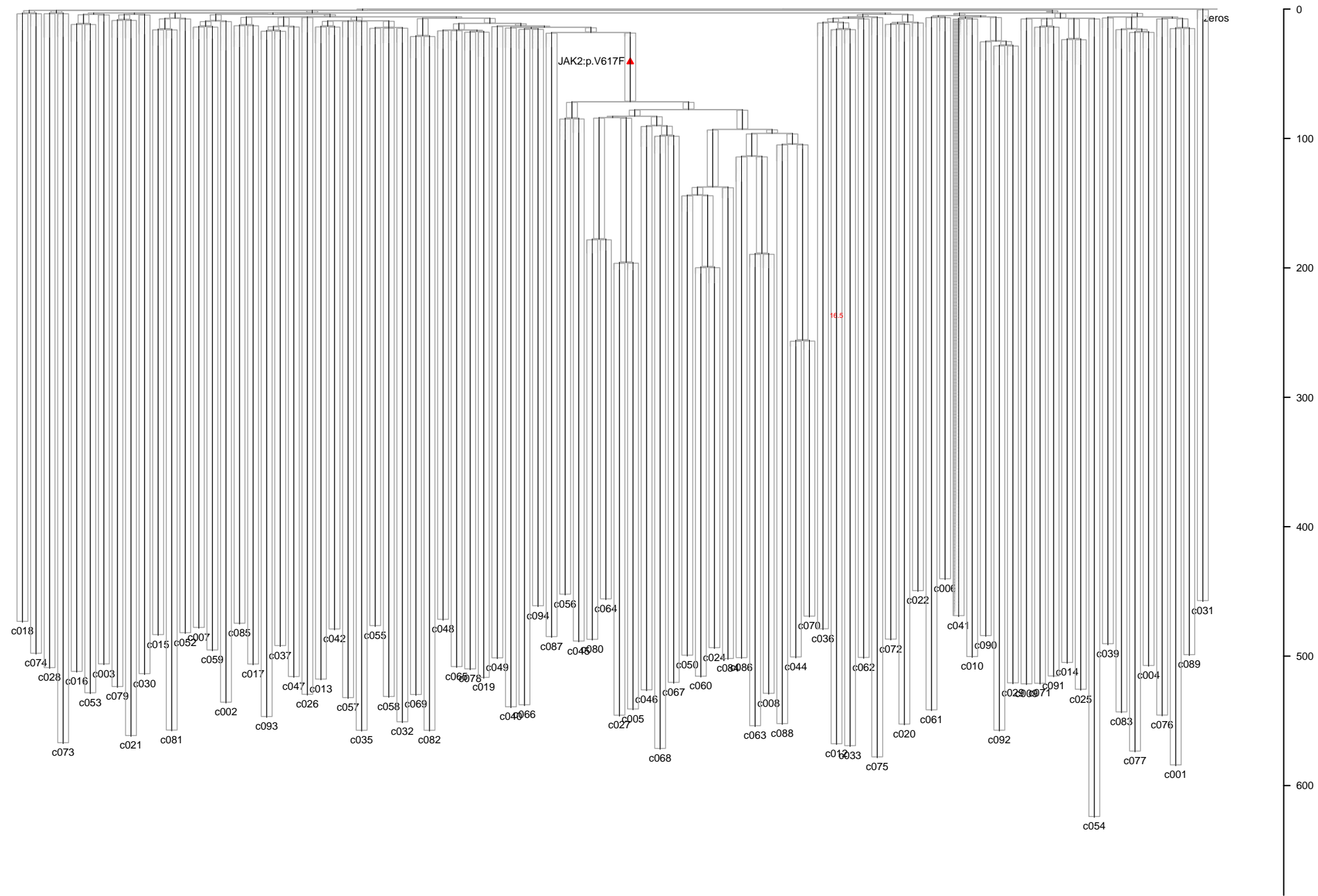


PD7271: Annotated with VAF from c00  
Mean Depth=18.06

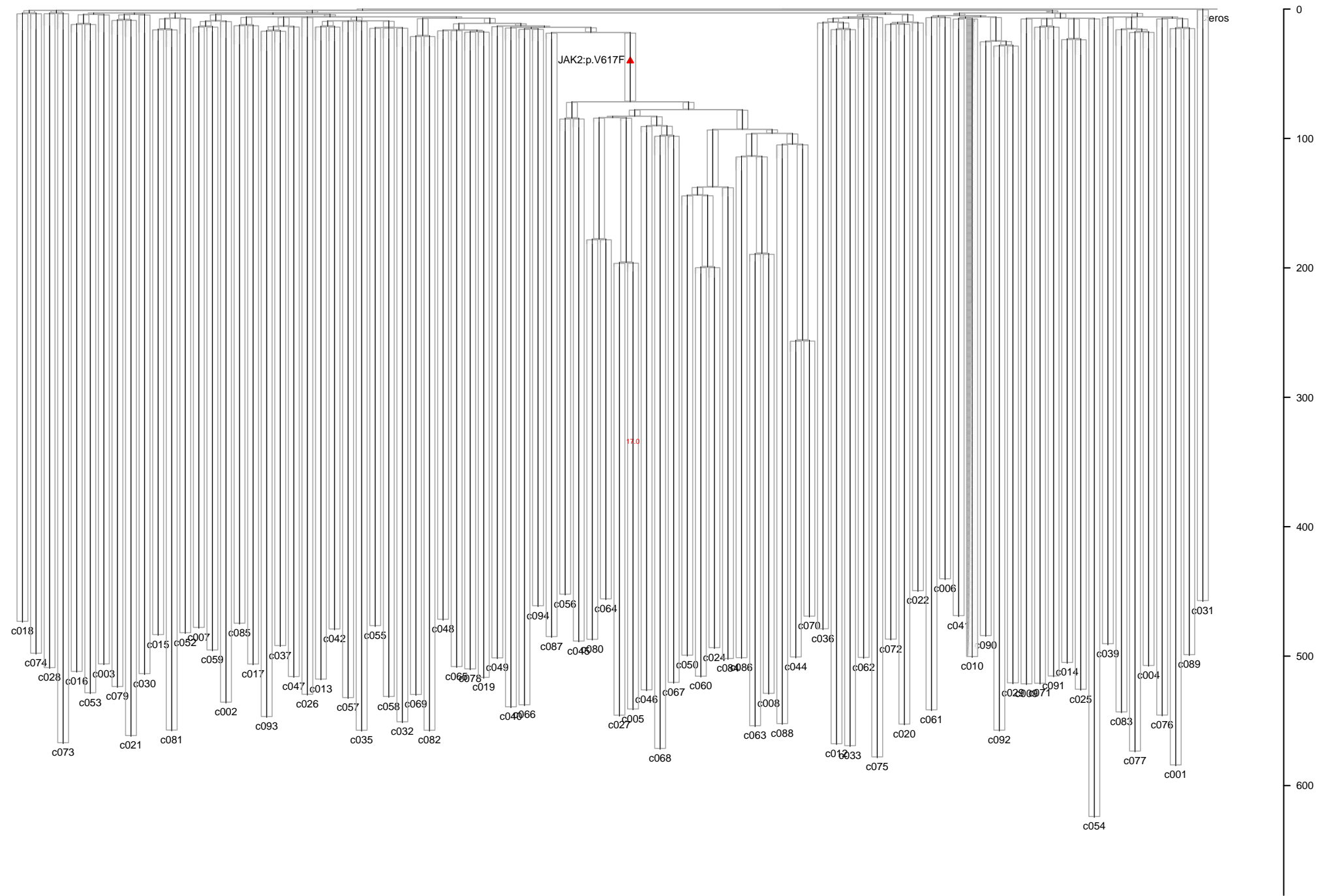




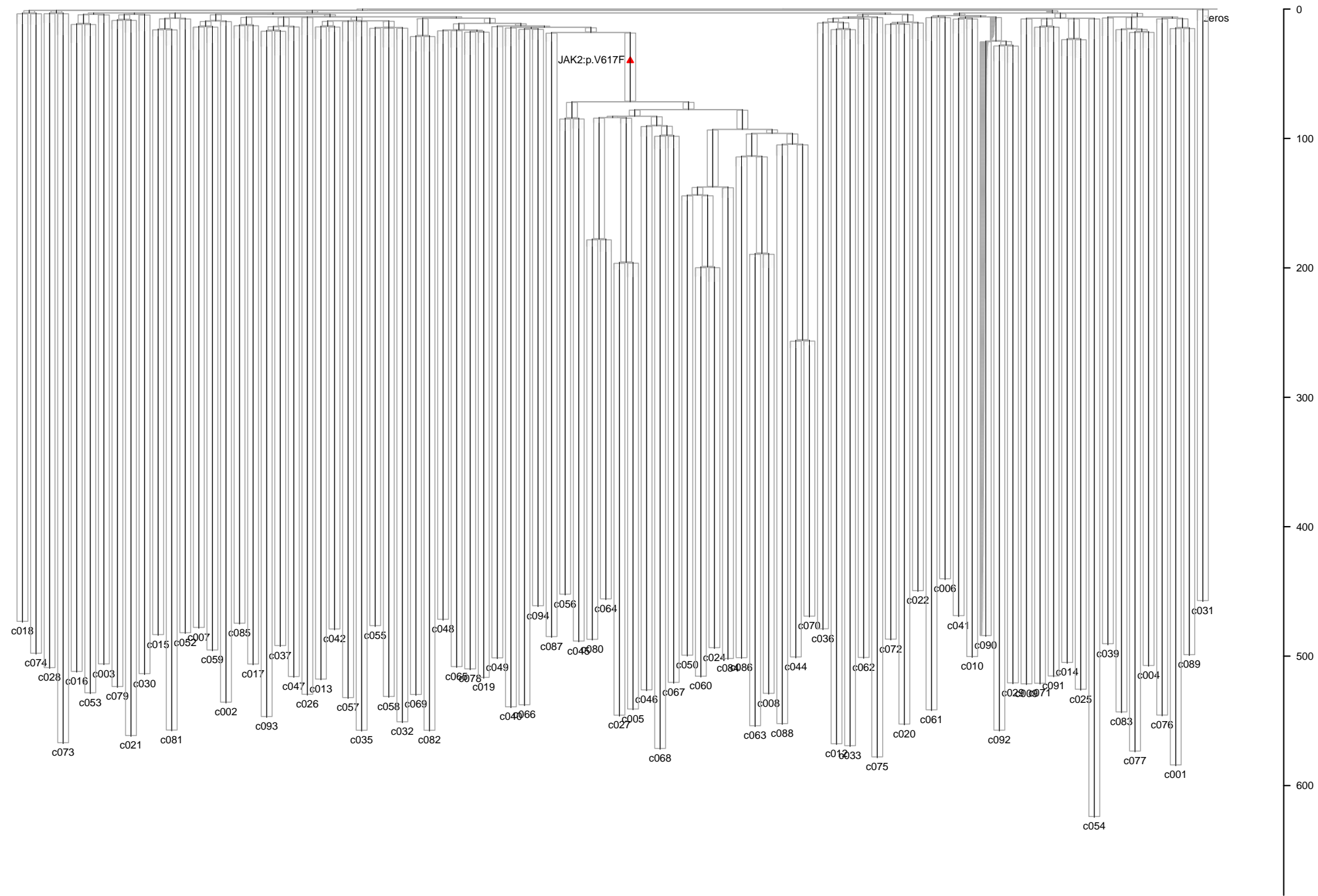
PD7271: Annotated with VAF from c04  
Mean Depth=16.99



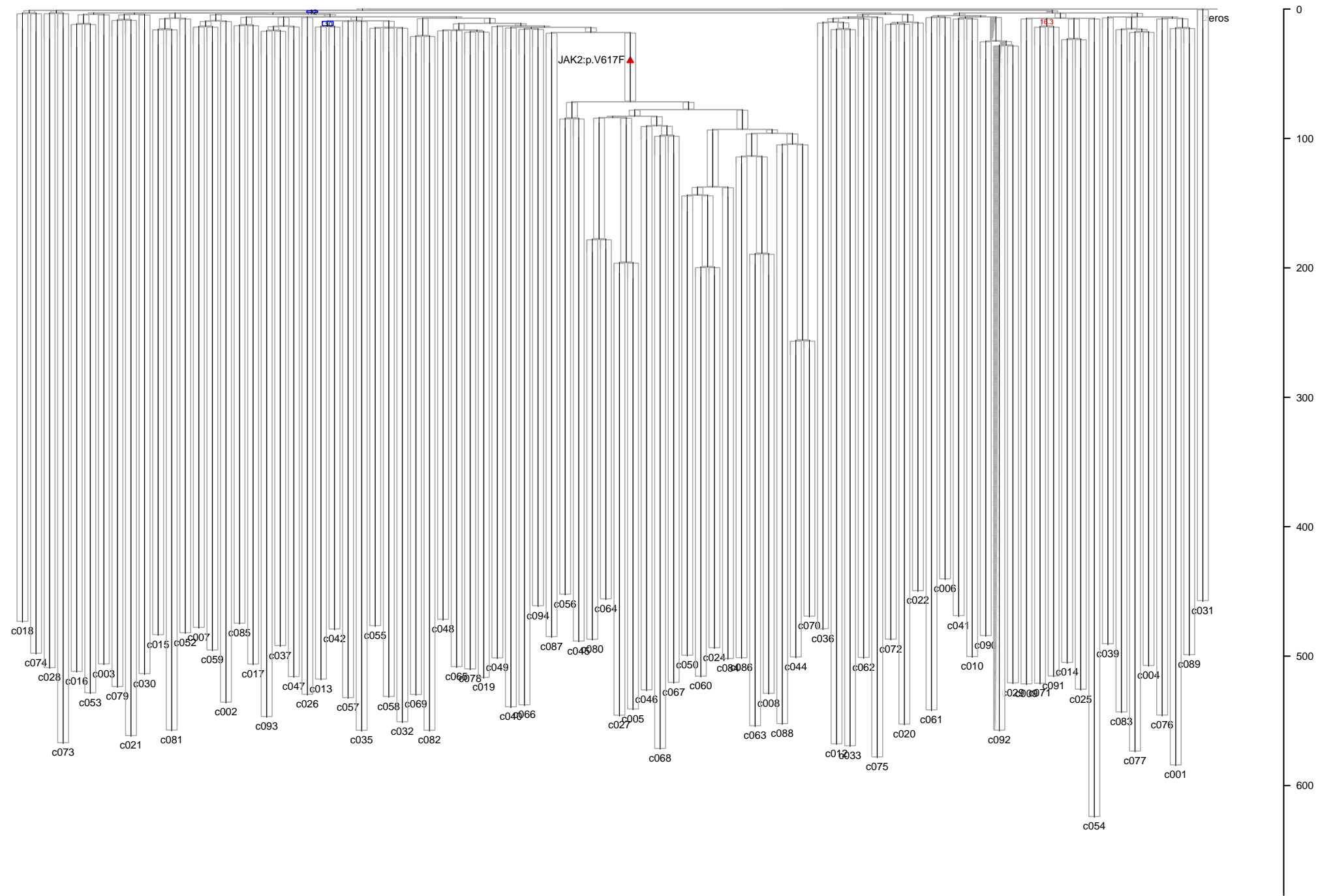
**PD7271: Annotated with VAF from c01**  
**Mean Depth=17.81**

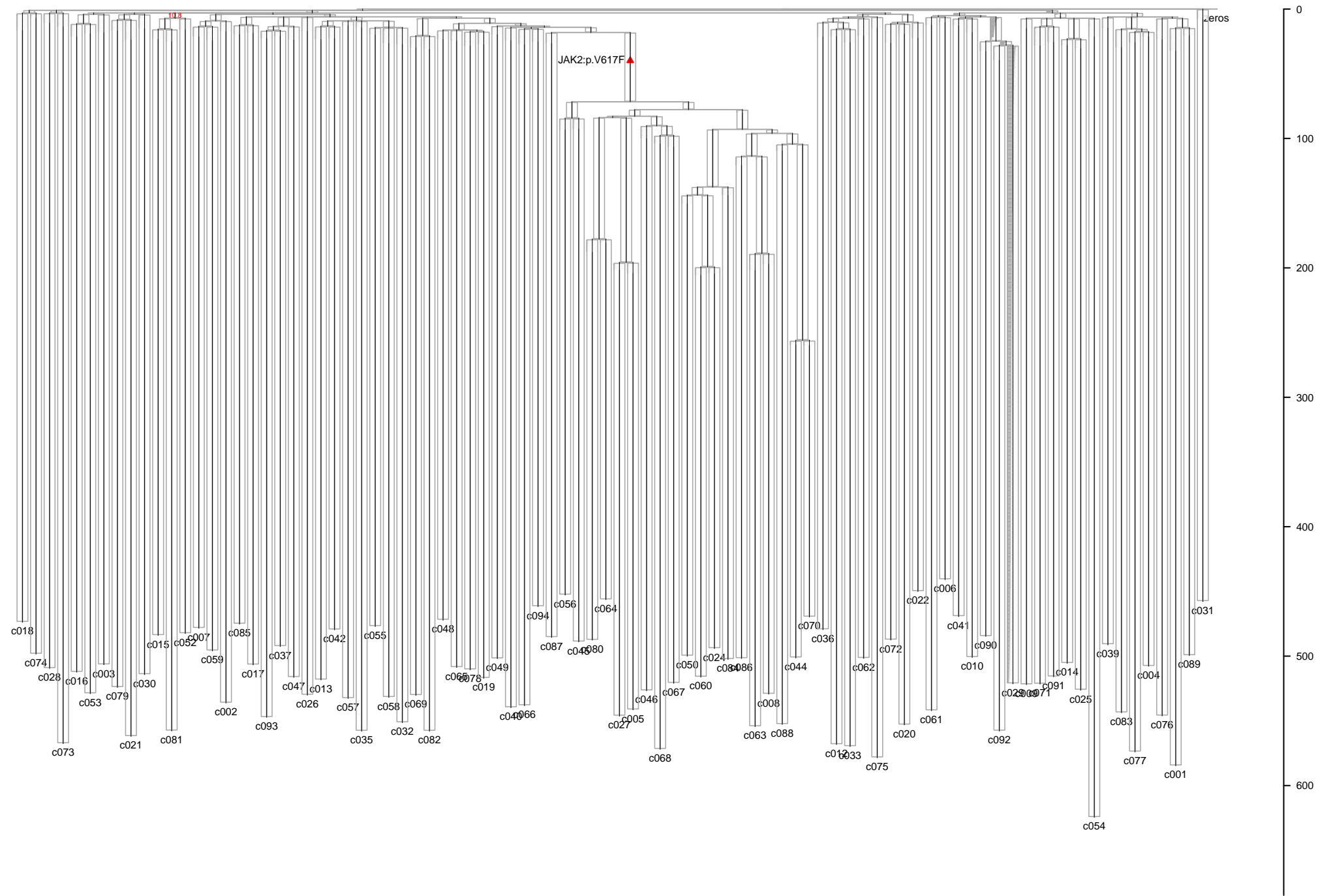


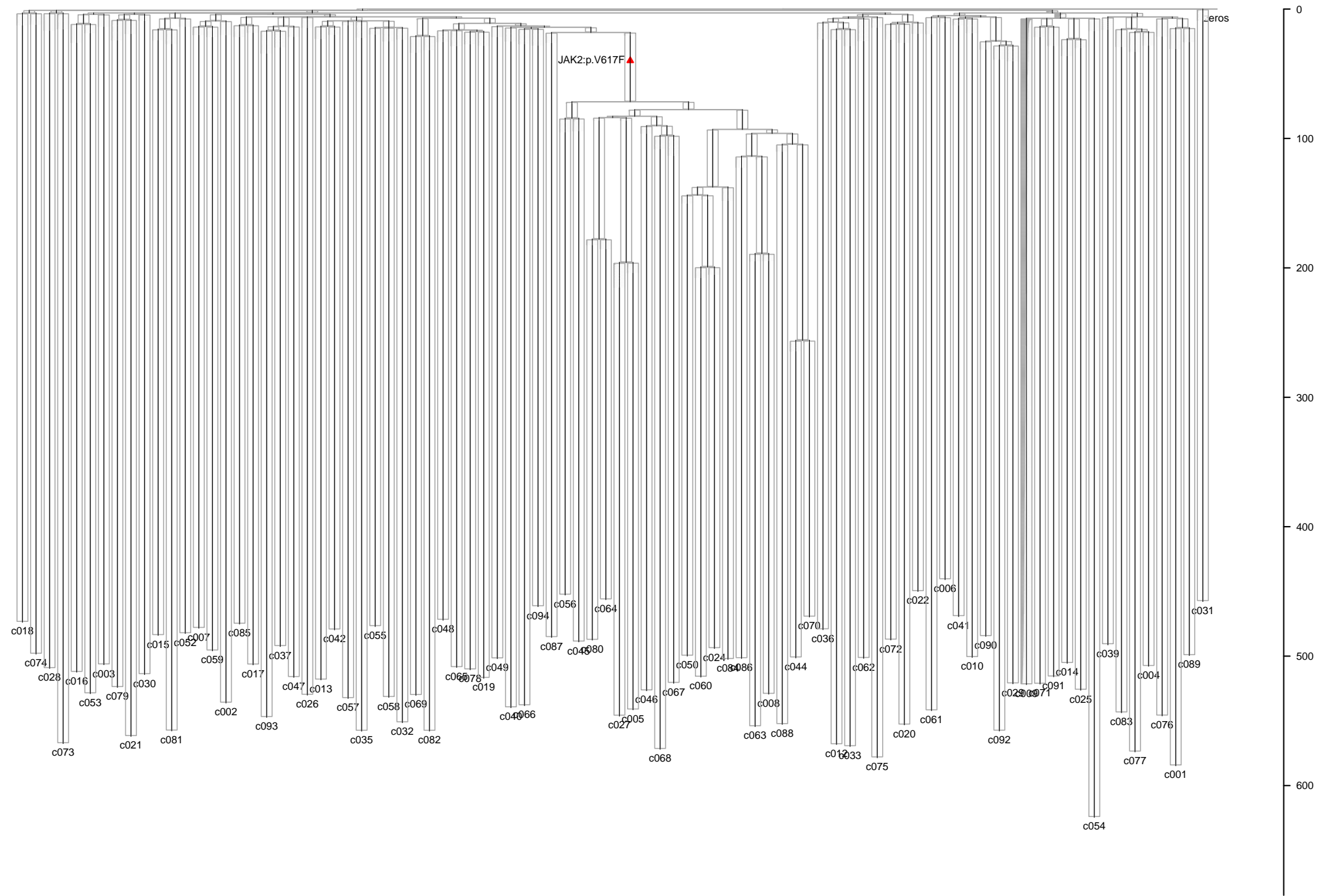


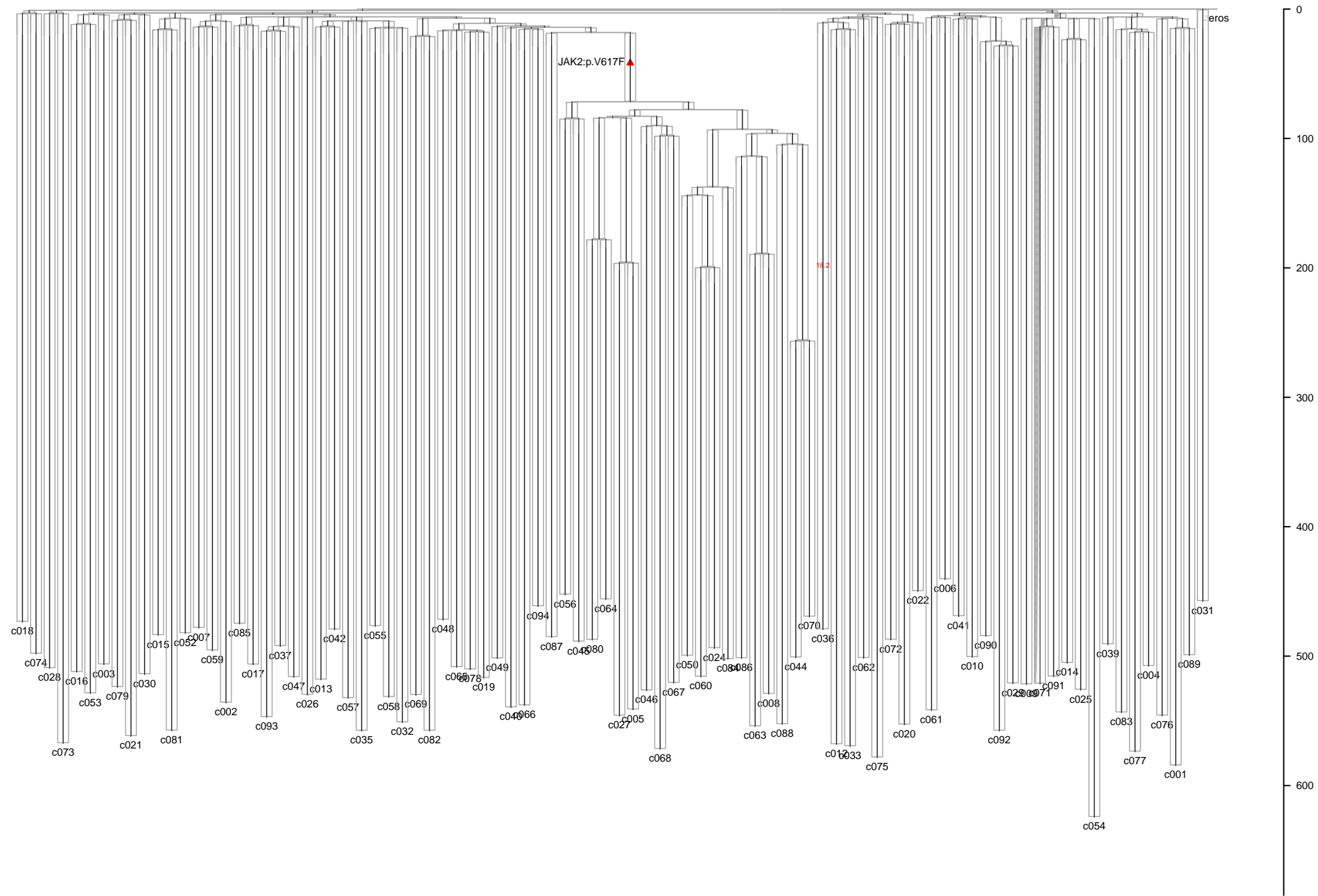


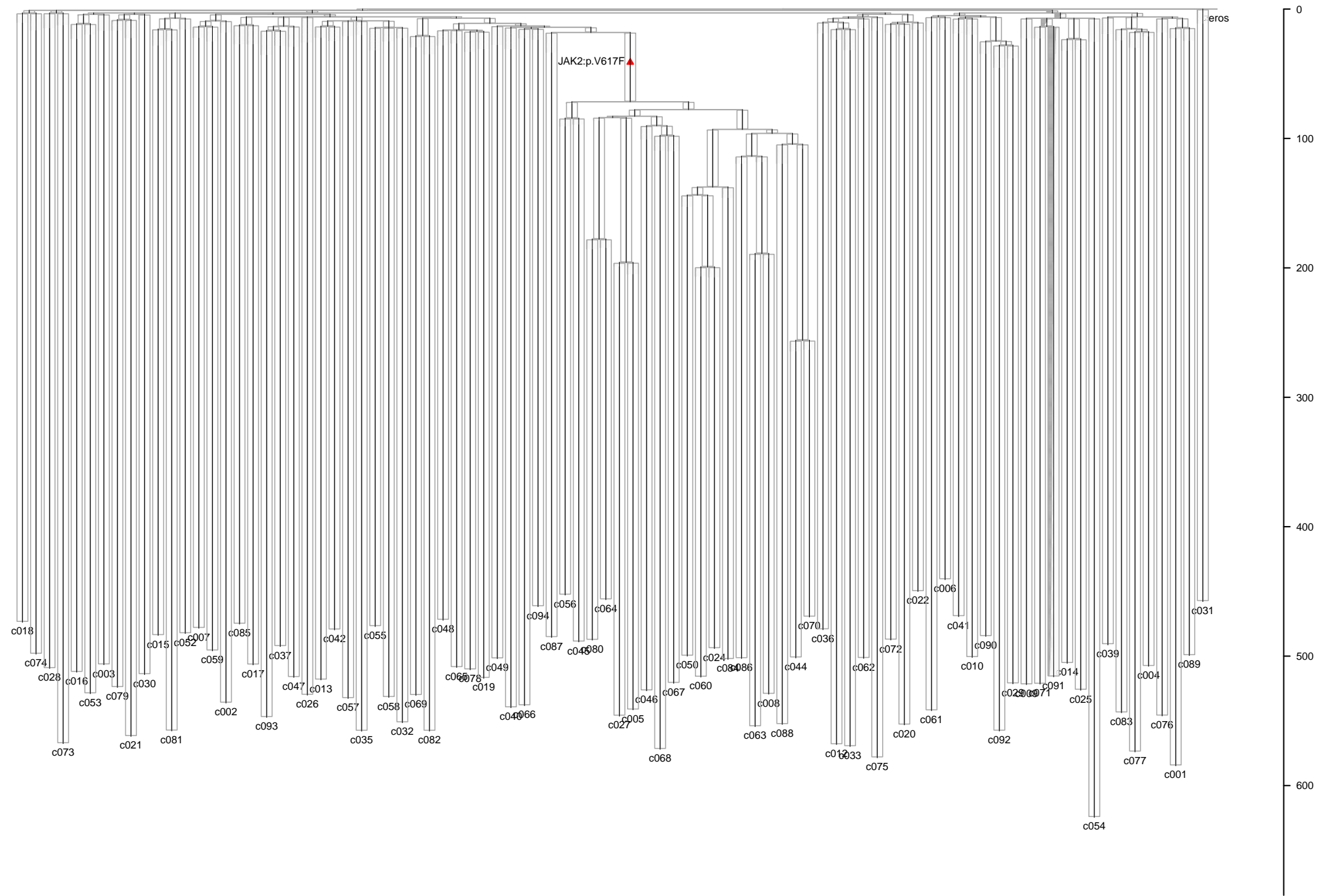
**Mean Depth=21.59**

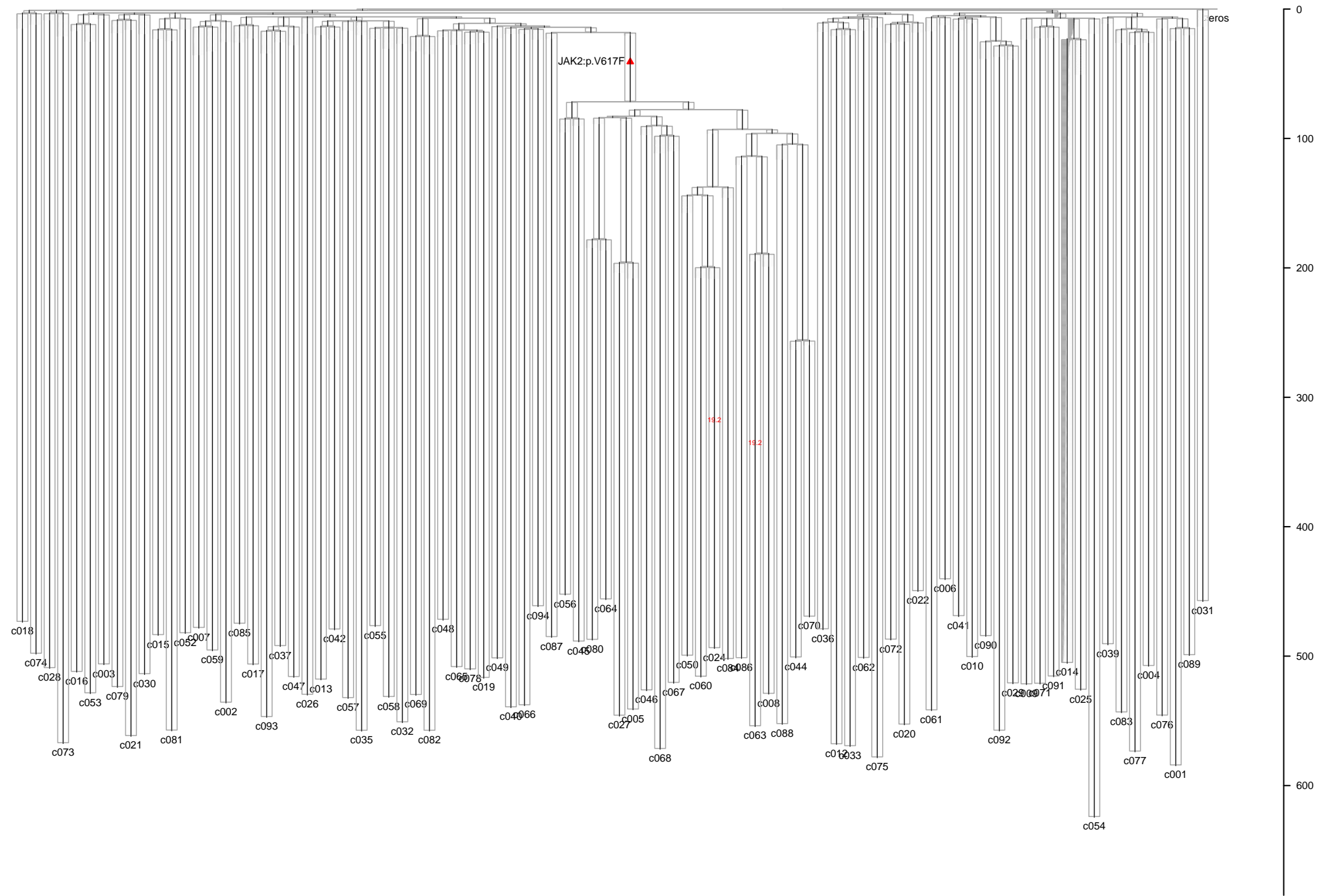


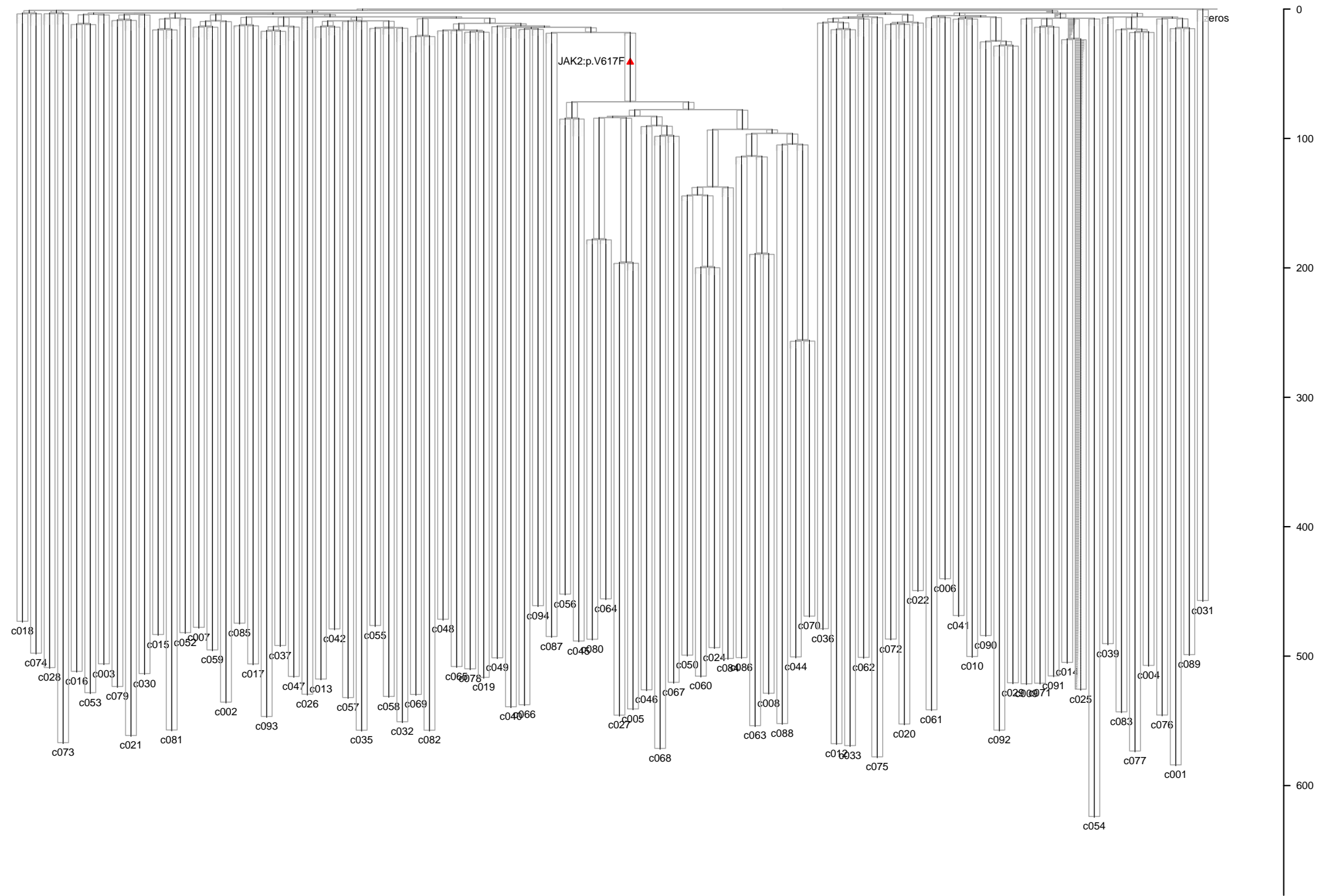




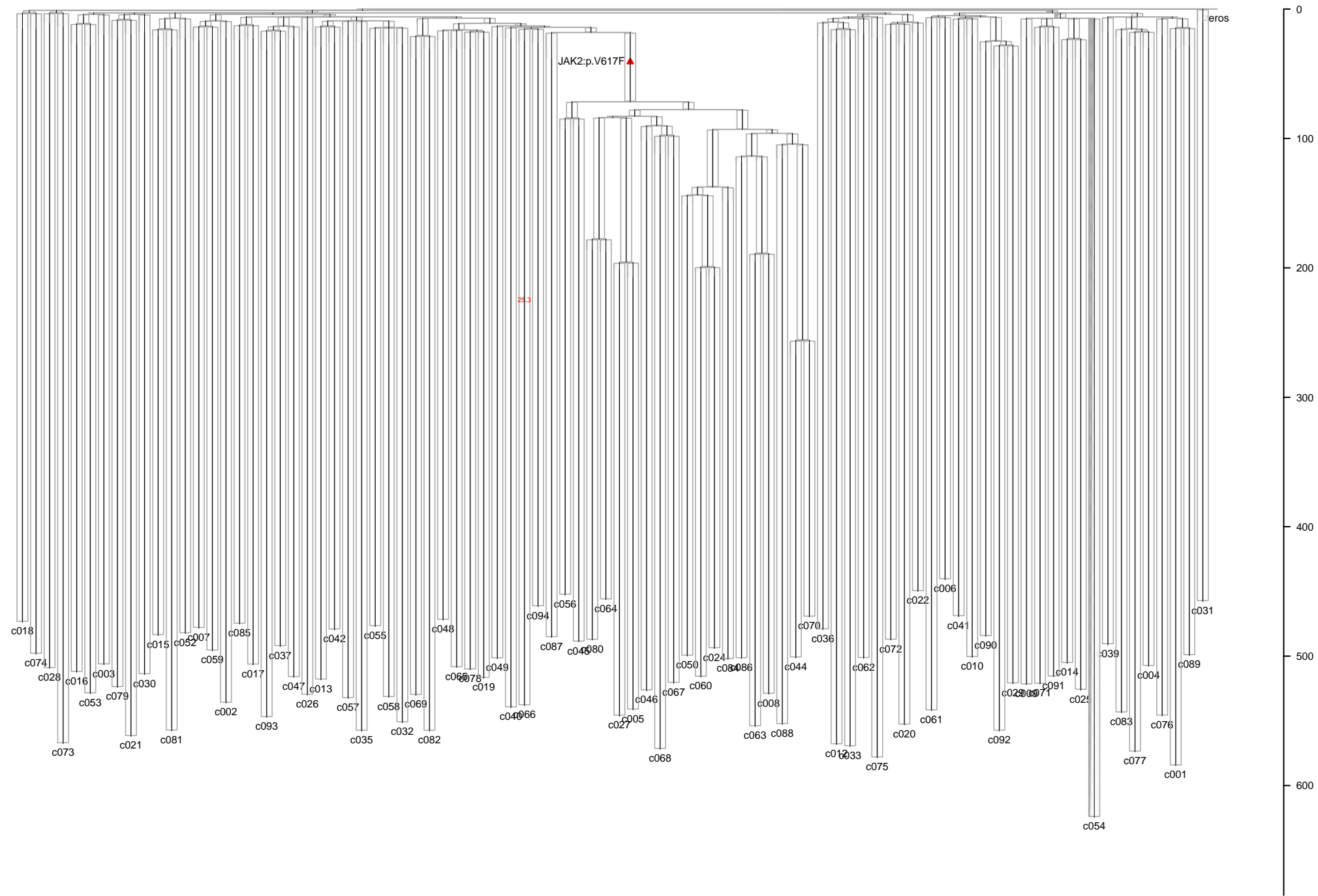




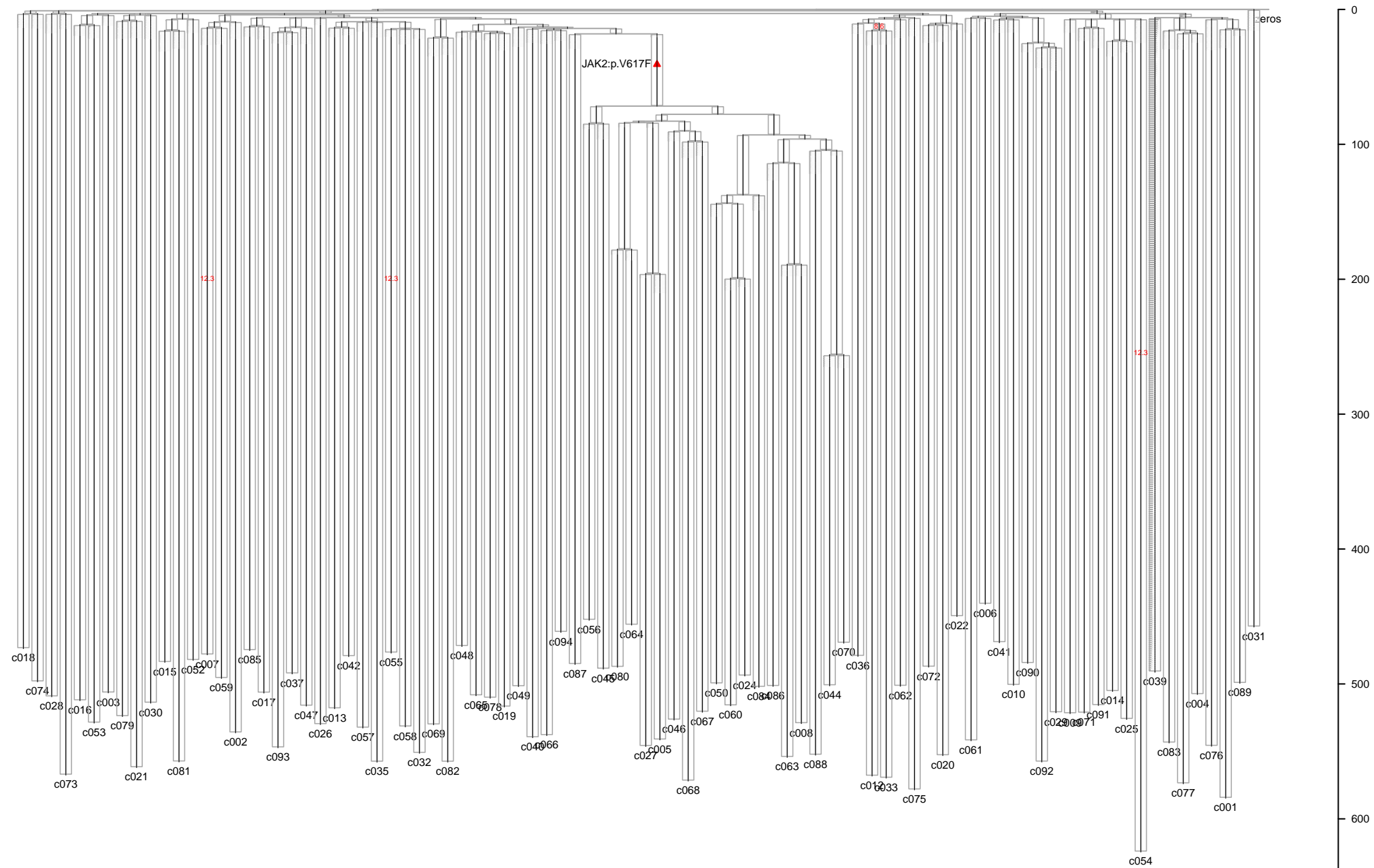




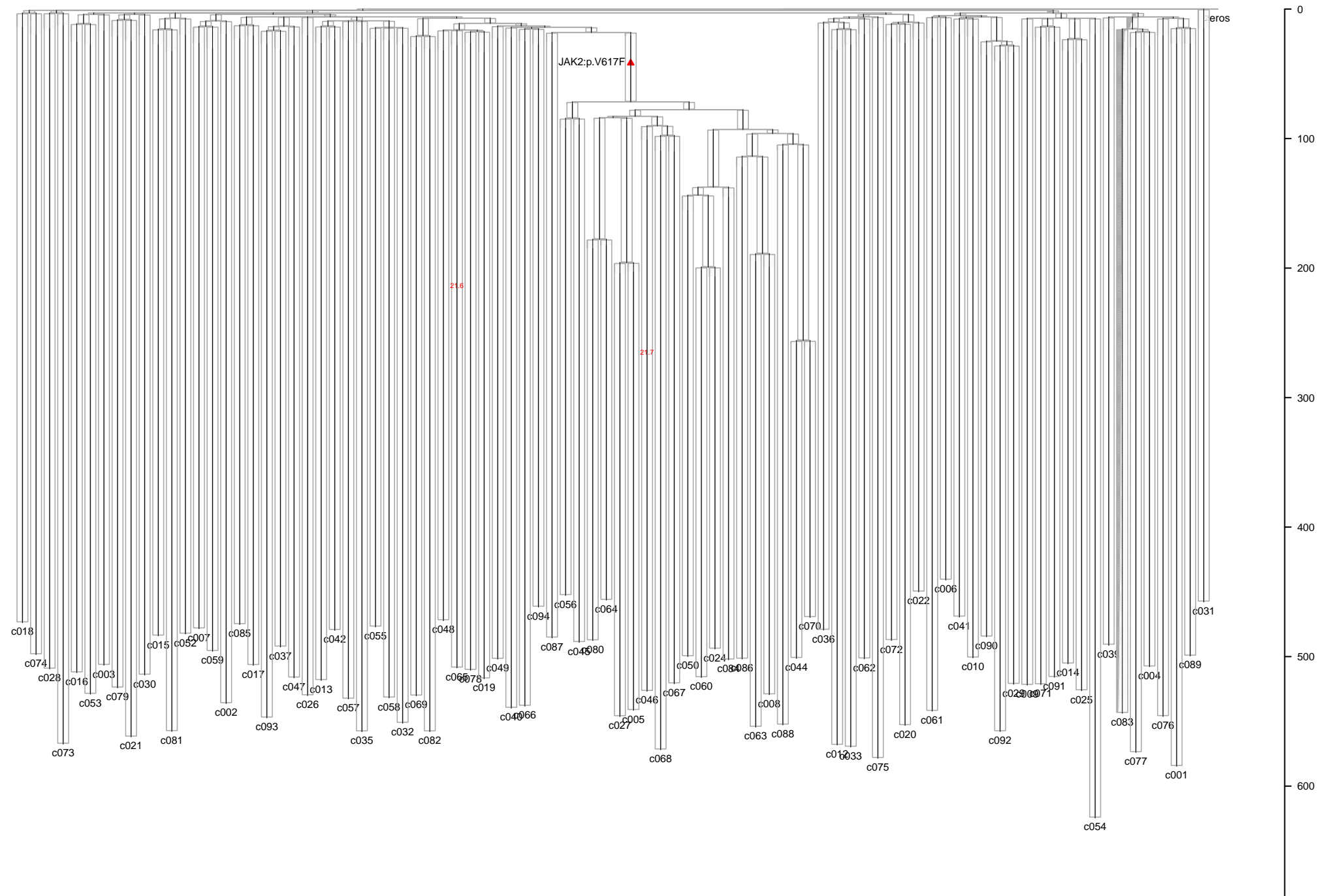




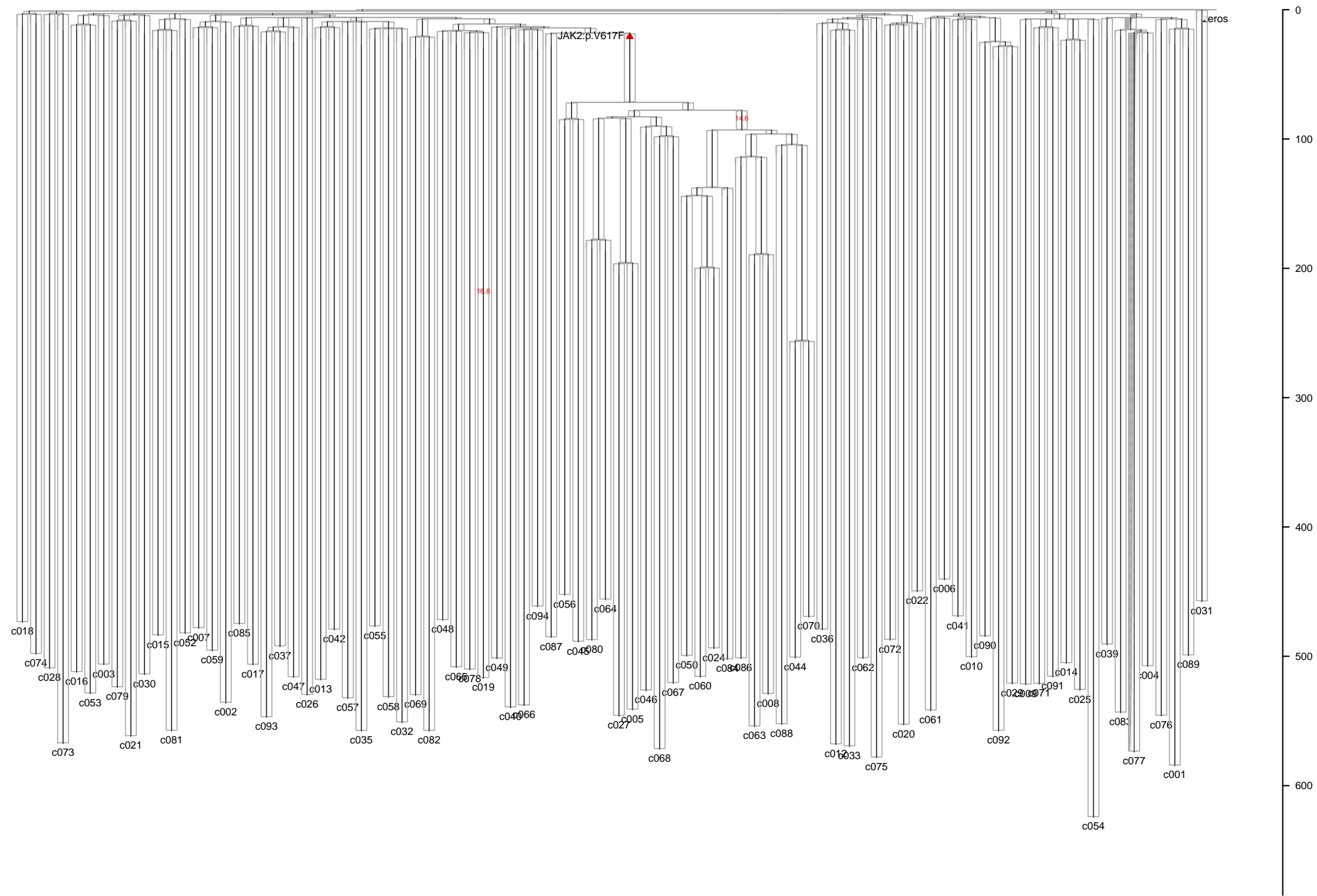
PD7271: Annotated with VAF from c03  
Mean Depth=12.82

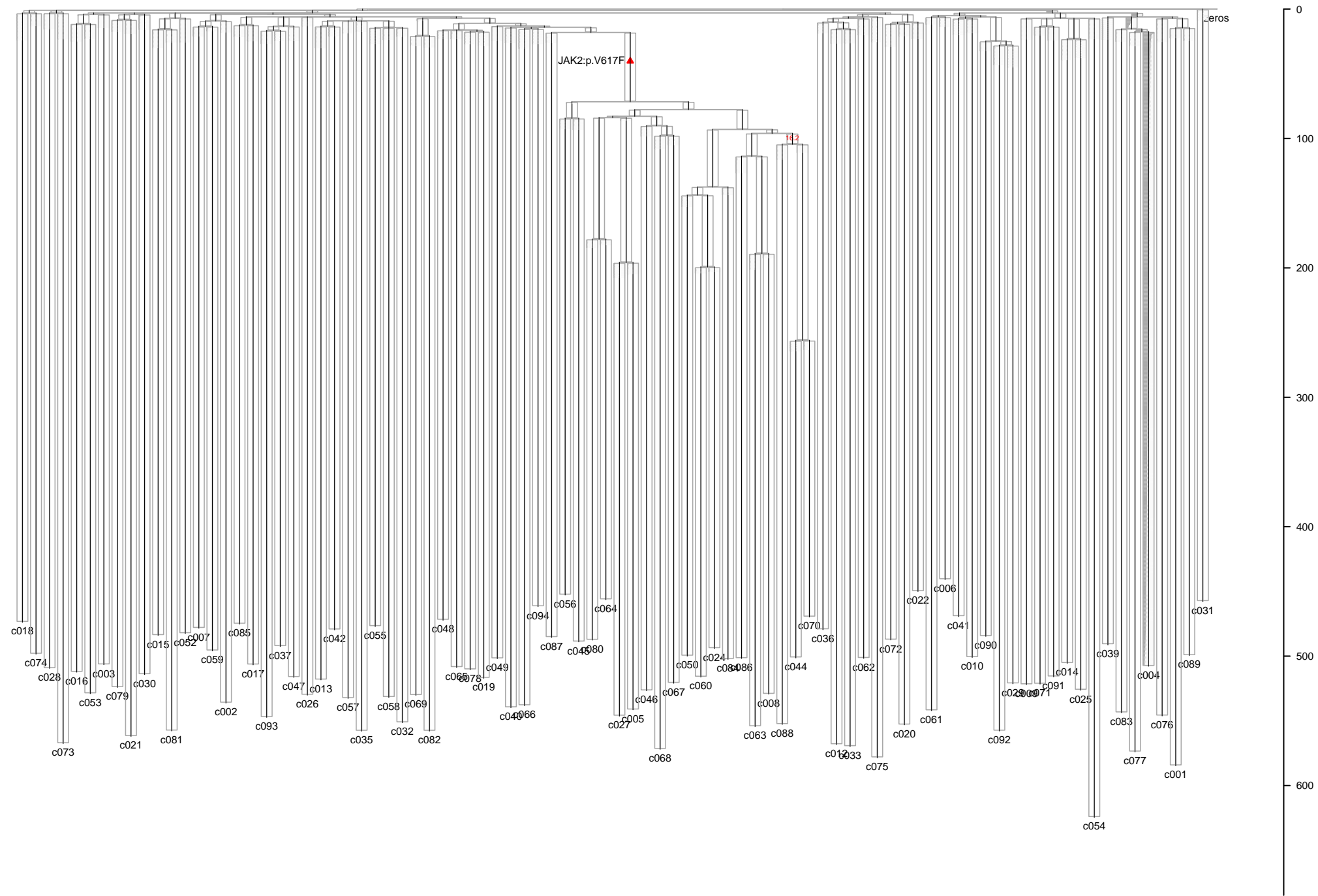


PD7271: Annotated with VAF from c08  
Mean Depth=22.33

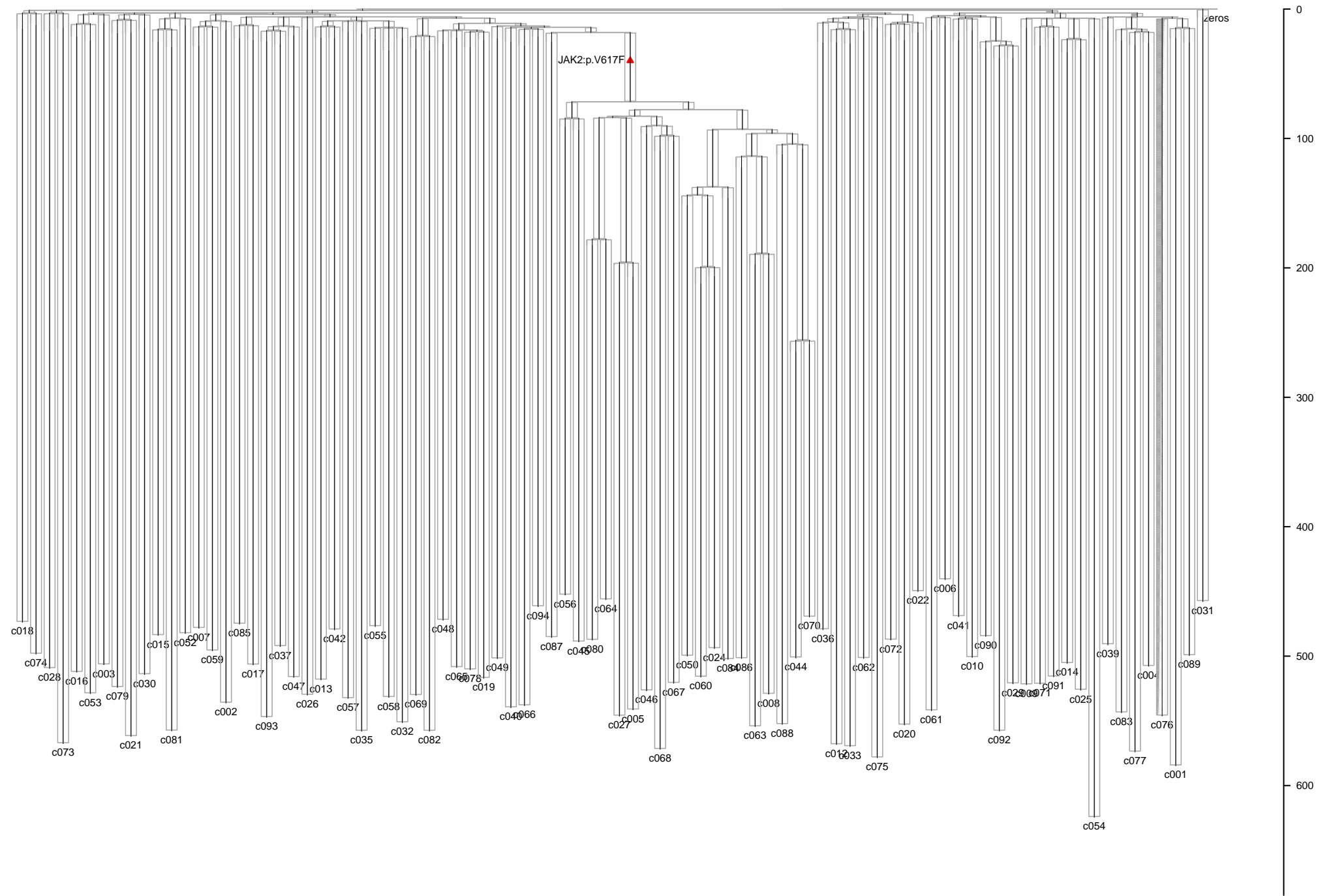


PD7271: Annotated with VAF from c077  
Mean Depth=17.47

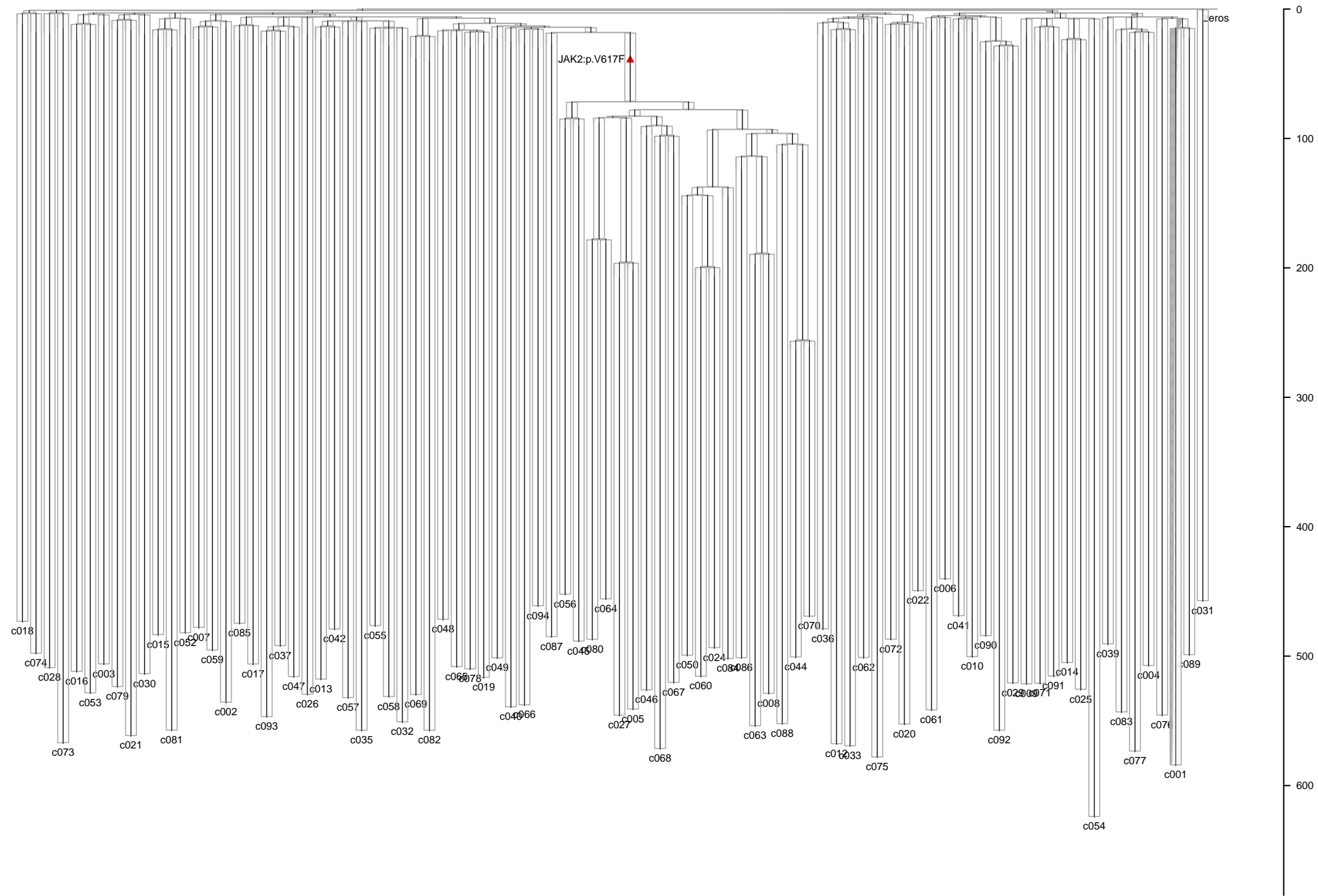




**PD7271: Annotated with VAF from c07**  
**Mean Depth=18.75**



PD7271: Annotated with VAF from c00  
Mean Depth=19.71



PD7271: Annotated with VAF from c08  
Mean Depth=21.10

