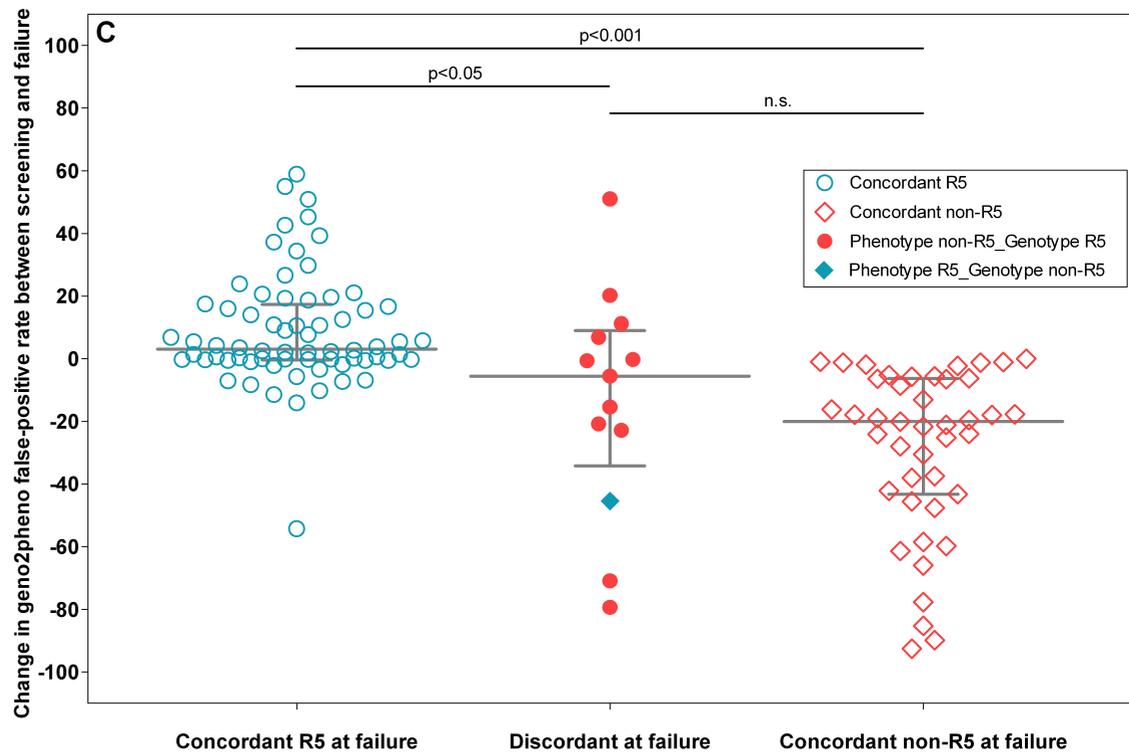
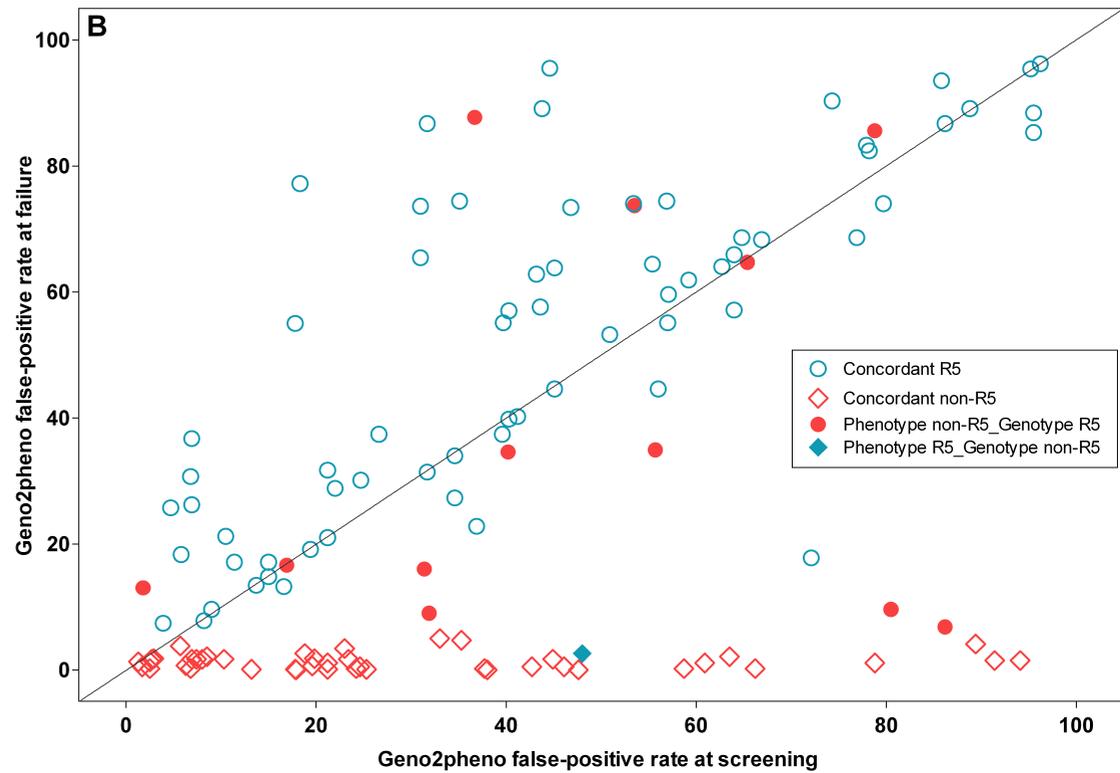
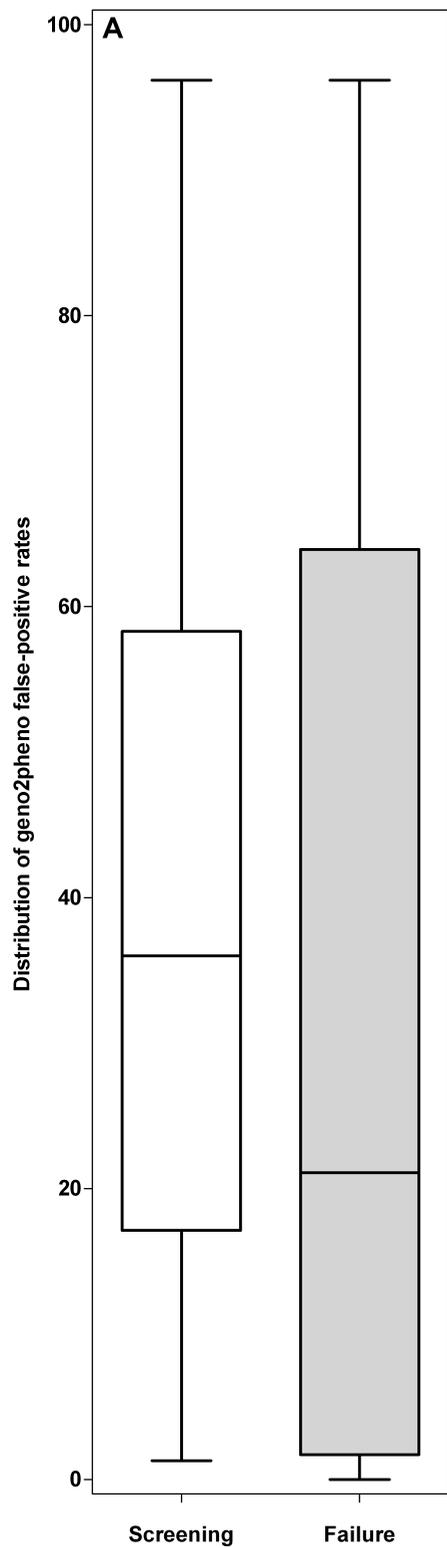


Supplementary Figure 1: Results when patients were restricted to those screened as having R5 HIV by ESTA

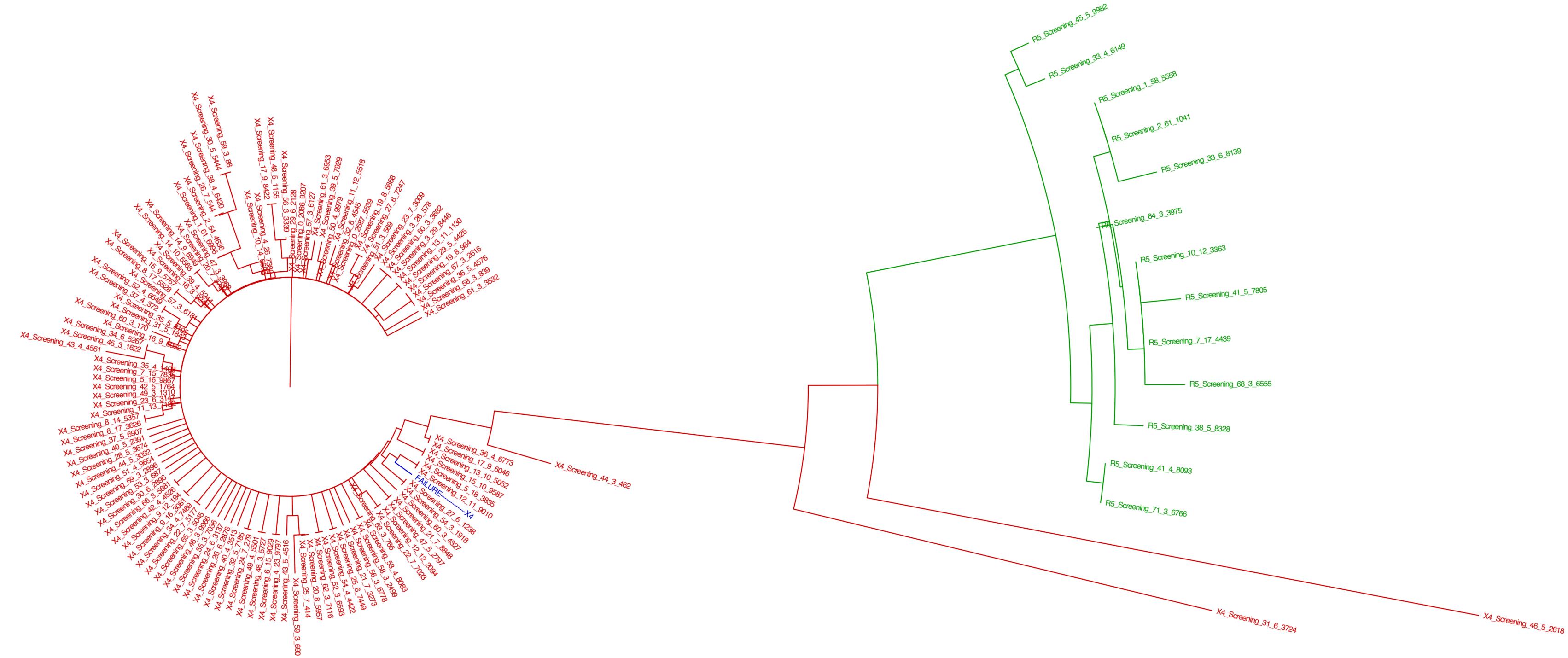


Example trees

F03730 – Large pre-treatment X4 population

Screening sample: 97% X4 by deep sequencing, and R5 by ESTA.

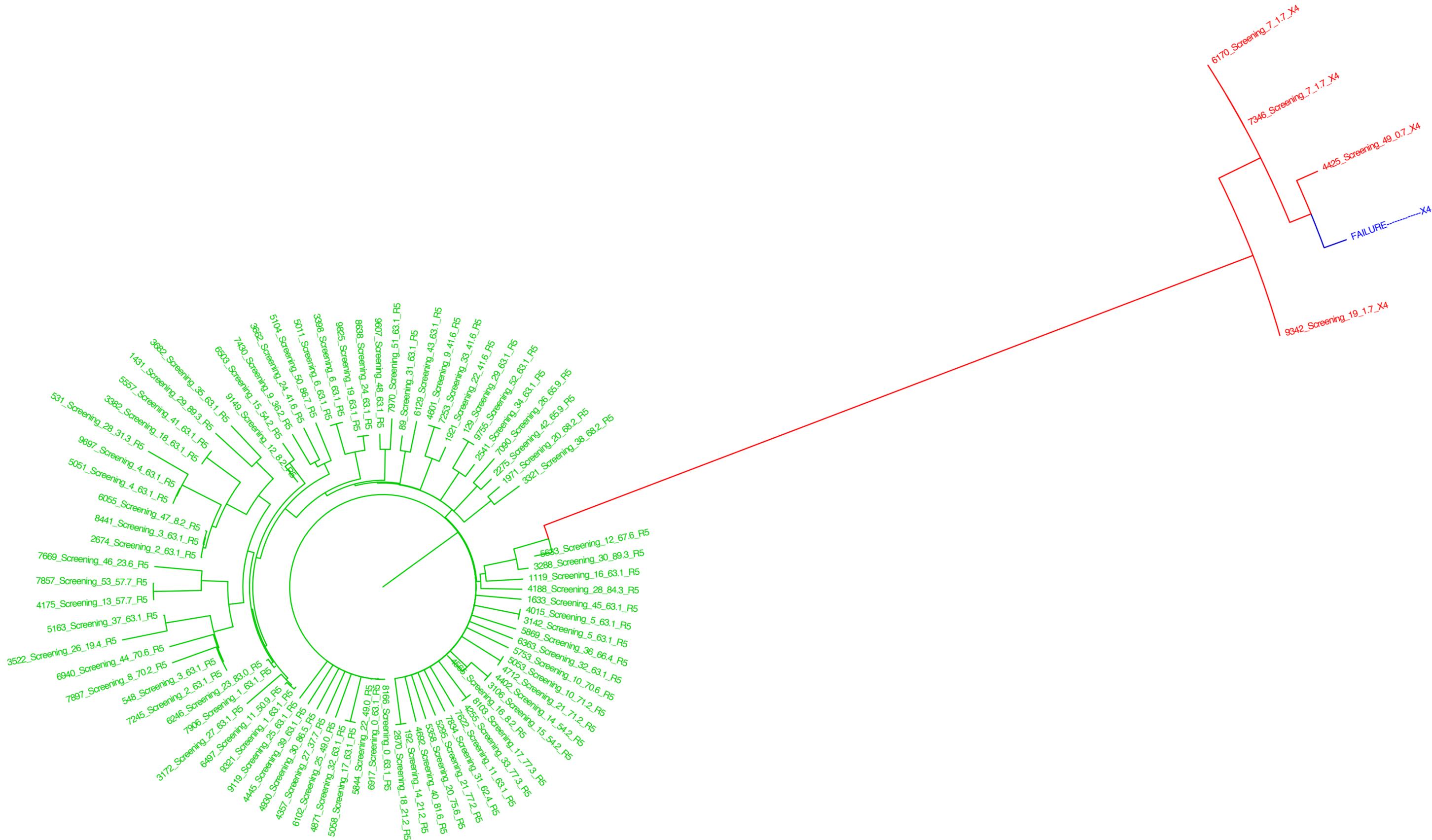
Failure sample: X4 by population-based genotype, and Dual/Mixed by OTA.



F10743 – Small pre-treatment X4 population

Screening sample: 1% X4 by deep sequencing, and R5 by ESTA.

Failure sample: X4 by population-based genotype, and X4 by OTA.



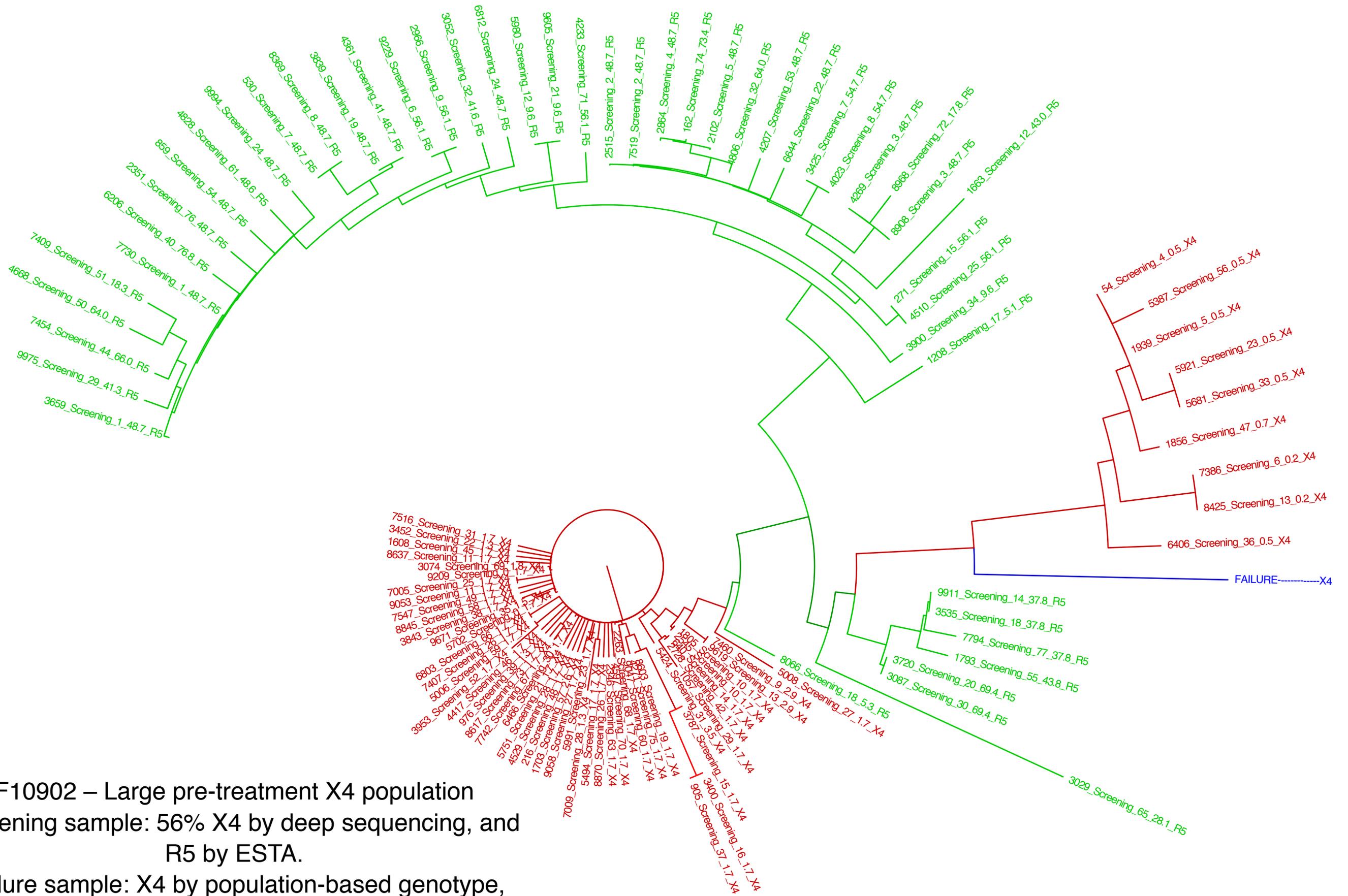
0.02

F10881 – Small pre-treatment X4 population

Screening sample: 0.1% X4 by deep sequencing, and R5 by ESTA.

Failure sample: X4 by population-based genotype, and Dual/Mixed by OTA.





F10902 – Large pre-treatment X4 population
 Screening sample: 56% X4 by deep sequencing, and R5 by ESTA.
 Failure sample: X4 by population-based genotype, and Dual/Mixed by OTA.

F11073 – No detection of pre-treatment X4 population
Screening sample: 0% X4 by deep sequencing, and R5 by ESTA.
Failure sample: X4 by population-based genotype, and Dual/Mixed by OTA.

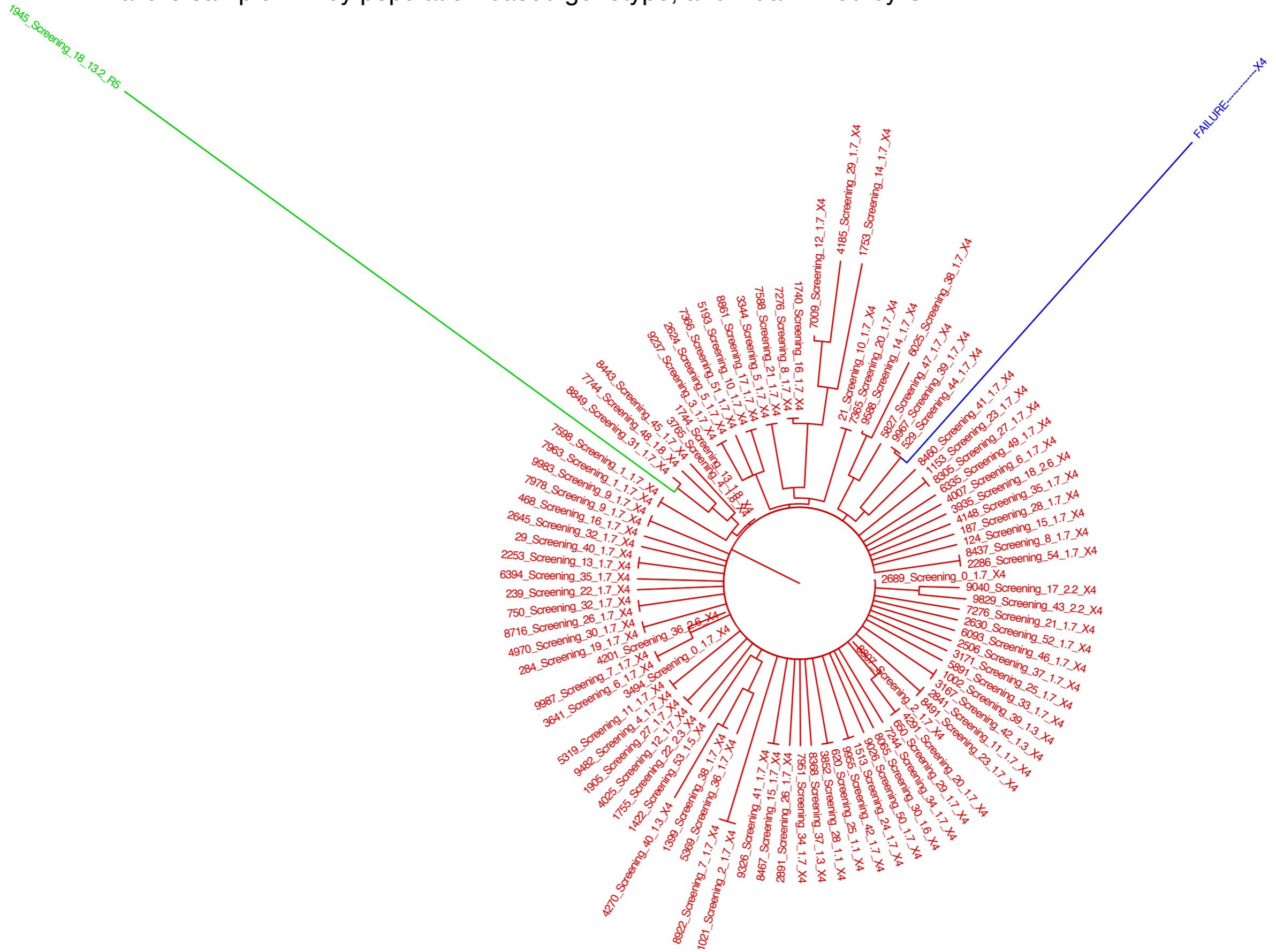


0.01

F11263 – Large pre-treatment X4 population

Screening sample: 99.9% X4 by deep sequencing, and Dual/Mixed by ESTA.

Failure sample: X4 by population-based genotype, and Dual/Mixed by OTA.



0.0090

F11270 – Large pre-treatment X4 population

Screening sample: 92% X4 by deep sequencing, and R5 by ESTA.

Failure sample: X4 by population-based genotype, and Dual/Mixed by OTA.

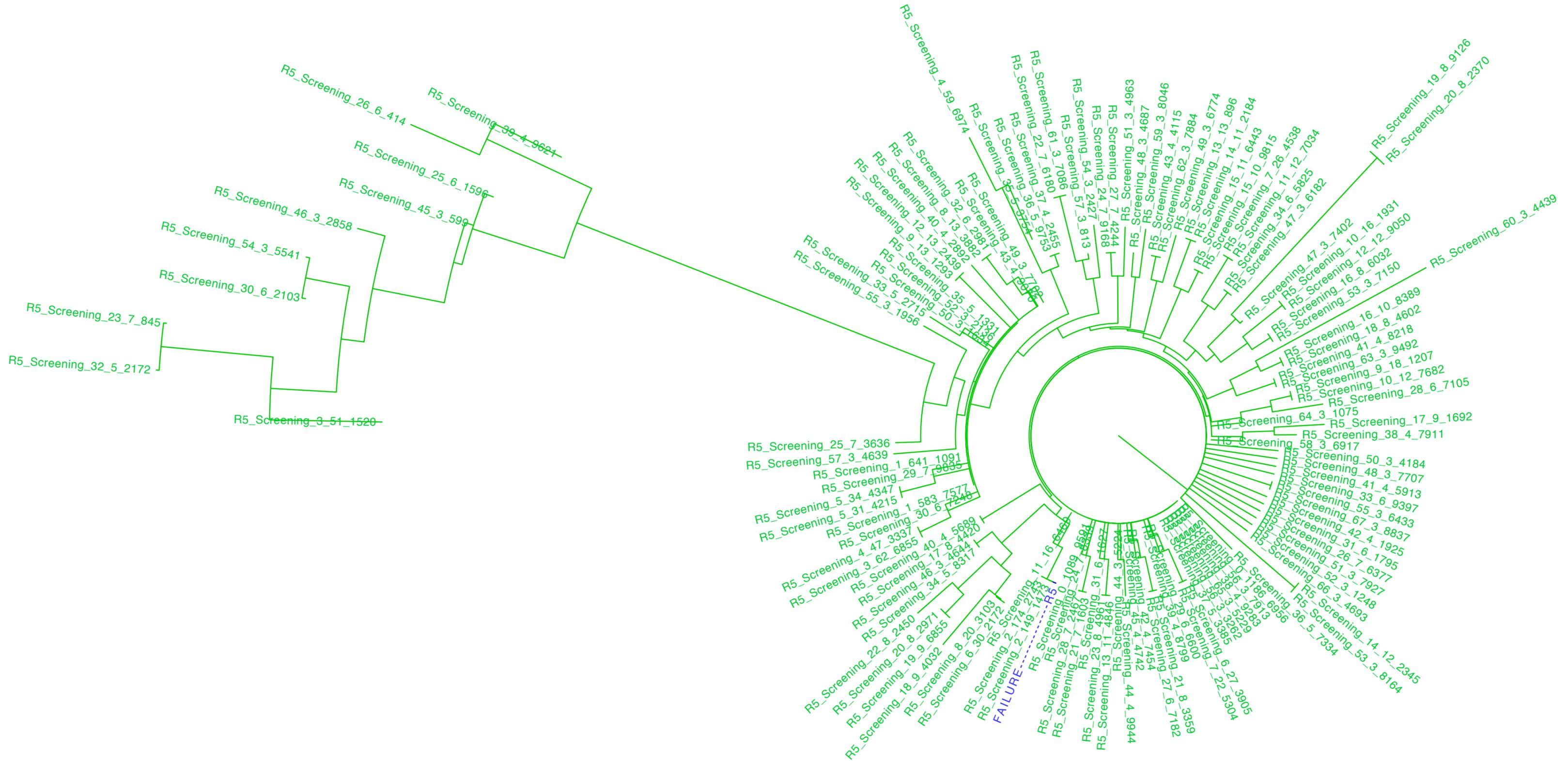


0.0090

F11893 – R5 failure

Screening sample: 0% X4 by deep sequencing, and Dual/Mixed by ESTA.

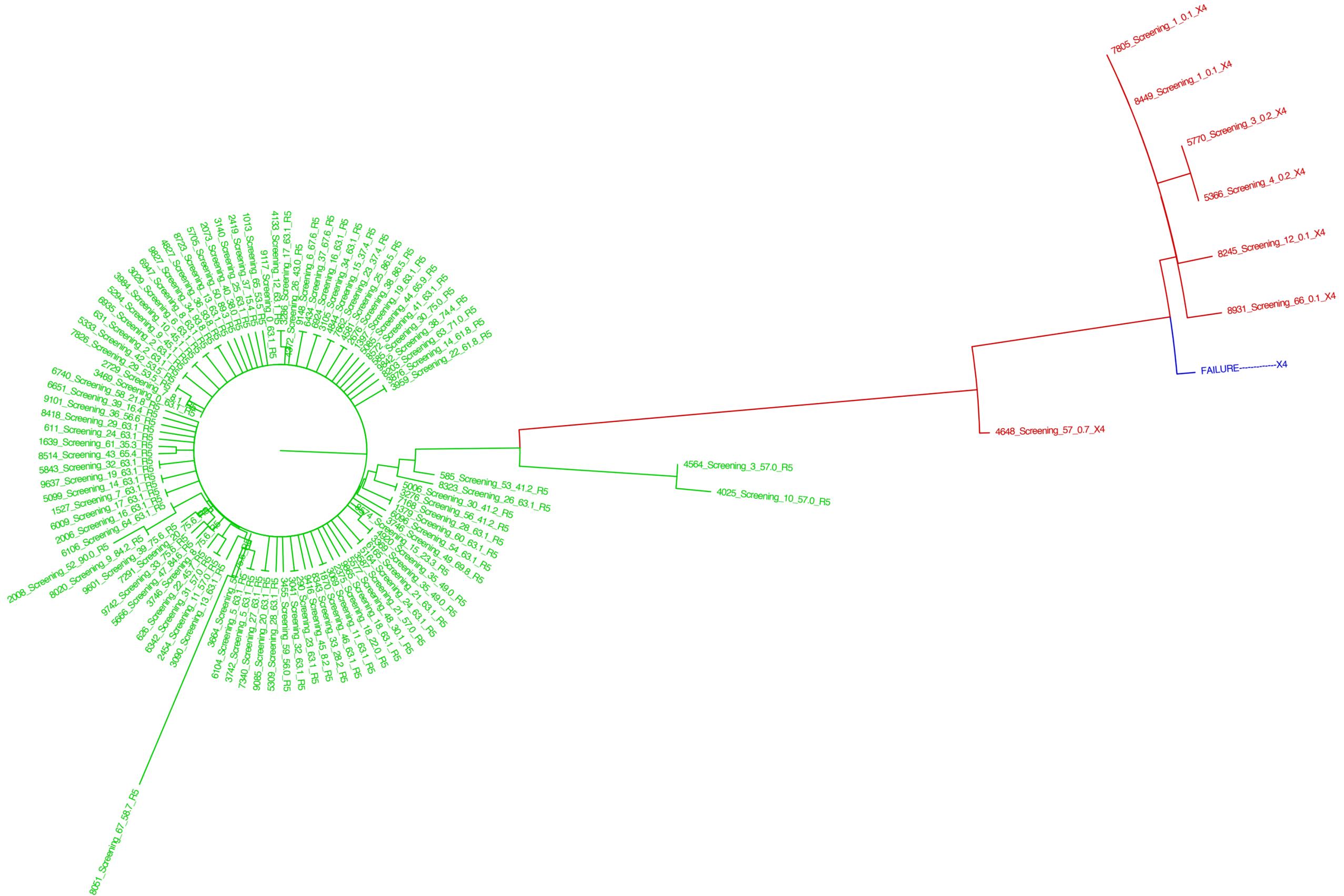
Failure sample: R5 by population-based genotype, and R5 by OTA.



F12434 – Small pre-treatment X4 population

Screening sample: 5% X4 by deep sequencing, and Dual/Mixed by ESTA.

Failure sample: X4 by population-based genotype, and X4 by OTA.

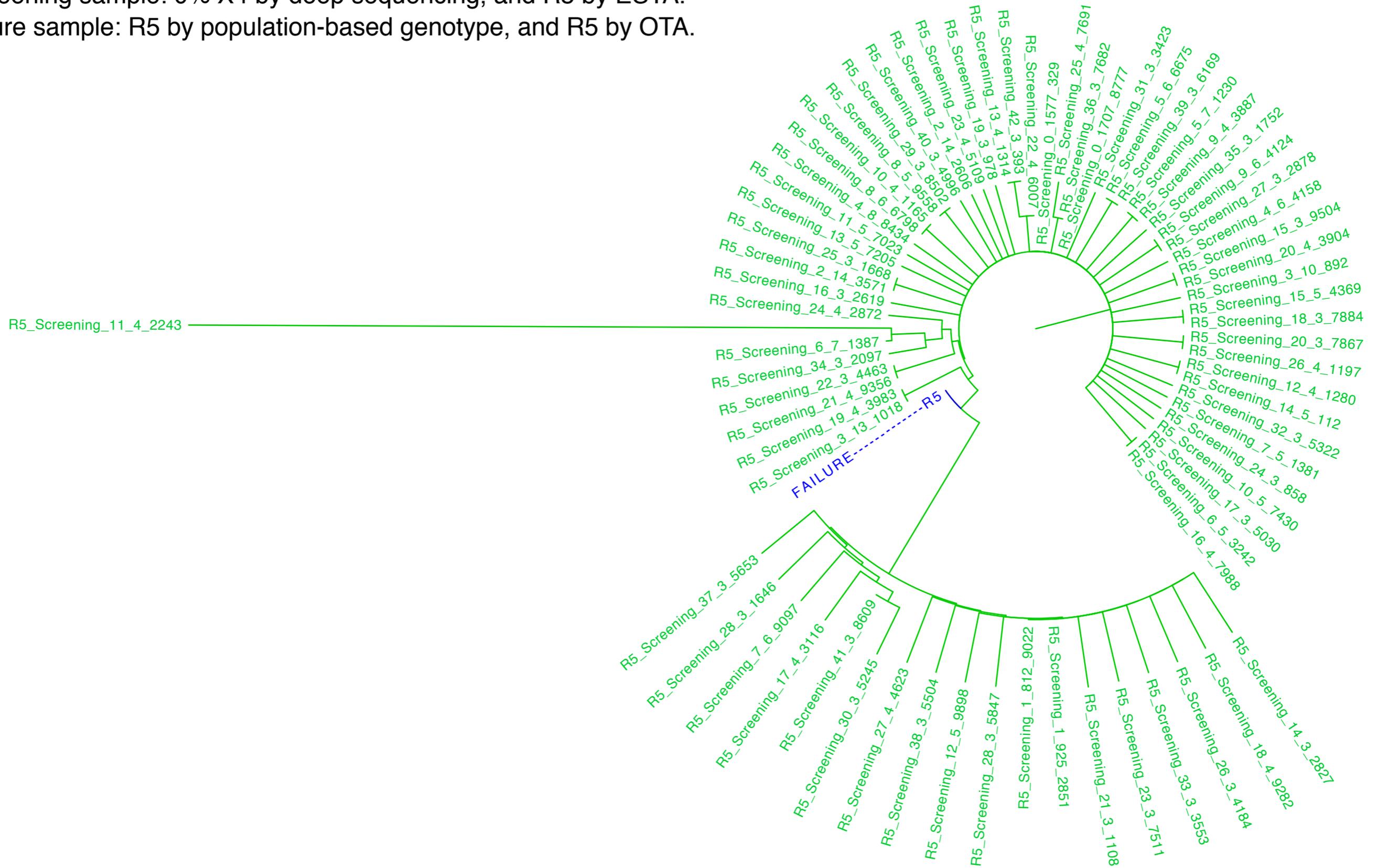


0.03

F12468 – R5 failure

Screening sample: 0% X4 by deep sequencing, and R5 by ESTA.

Failure sample: R5 by population-based genotype, and R5 by OTA.

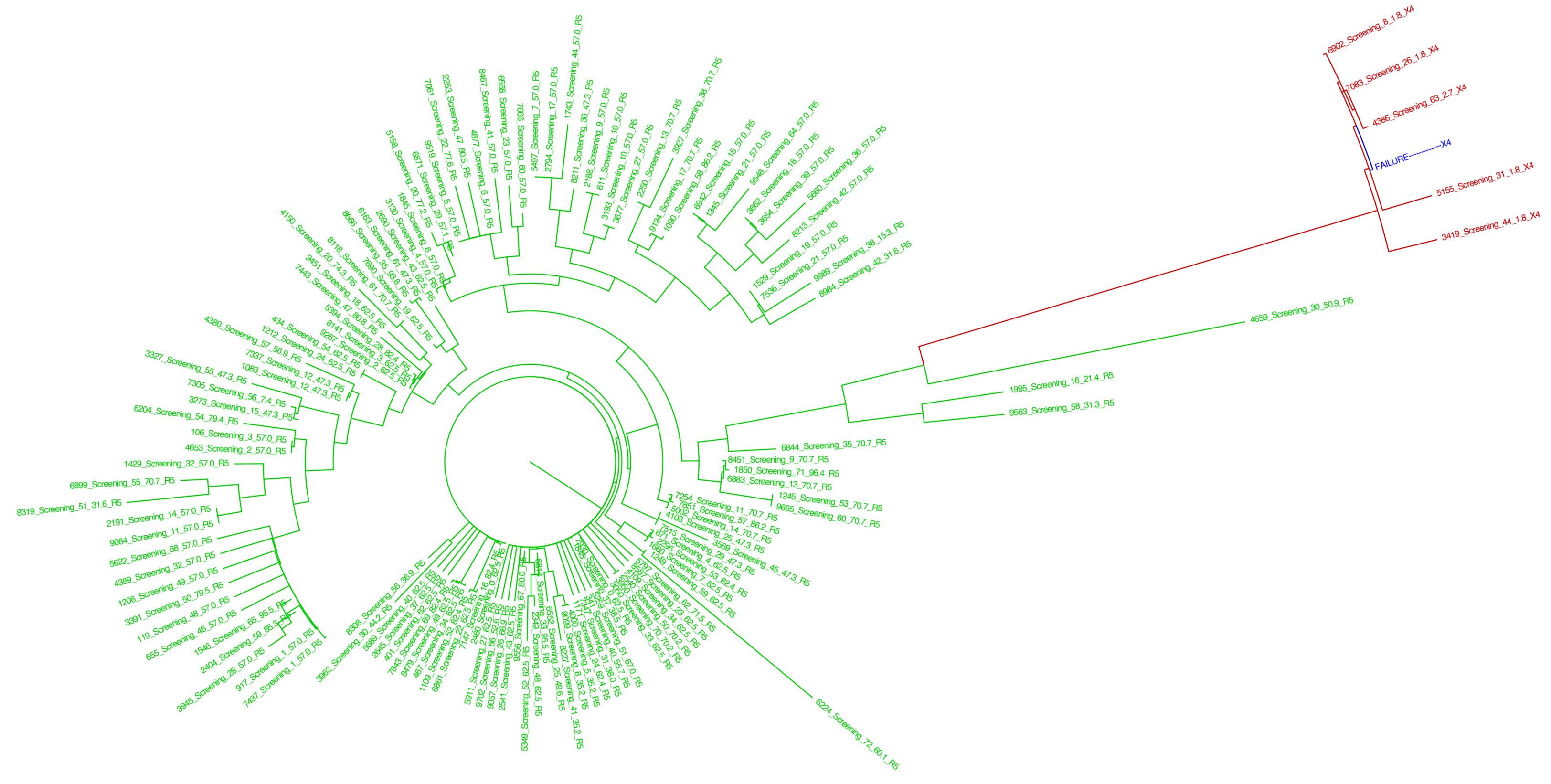


0.02

F12506 – Small pre-treatment X4 population

Screening sample: 2% X4 by deep sequencing, and R5 by ESTA.

Failure sample: X4 by population-based genotype, and X4 by OTA.



0.02

F12641 – Large pre-treatment X4 population

Screening sample: 53% X4 by deep sequencing, and R5 by ESTA.

Failure sample: X4 by population-based genotype, and Dual/Mixed by OTA.

