Supplementary Data

env C2-V3

pol RT

gag p24

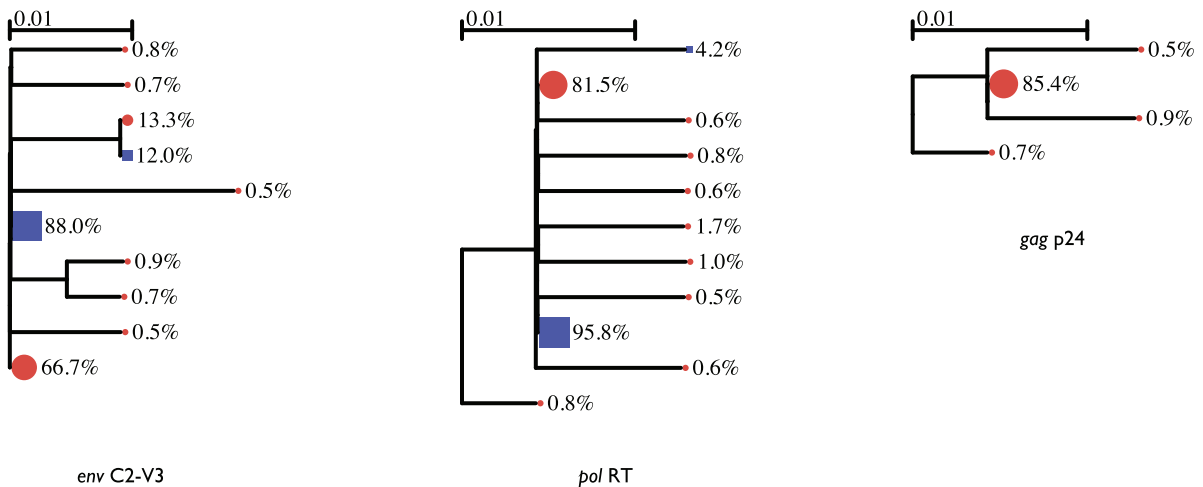**SUPPLEMENTARY FIG. 1.** Sample A, UDS duplicate 1. First year of infection. No evidence of DI. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.
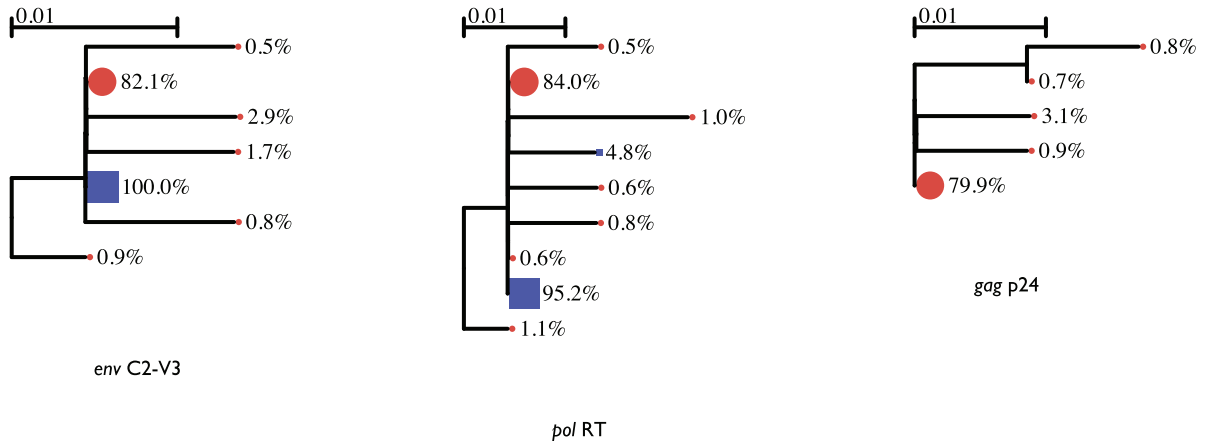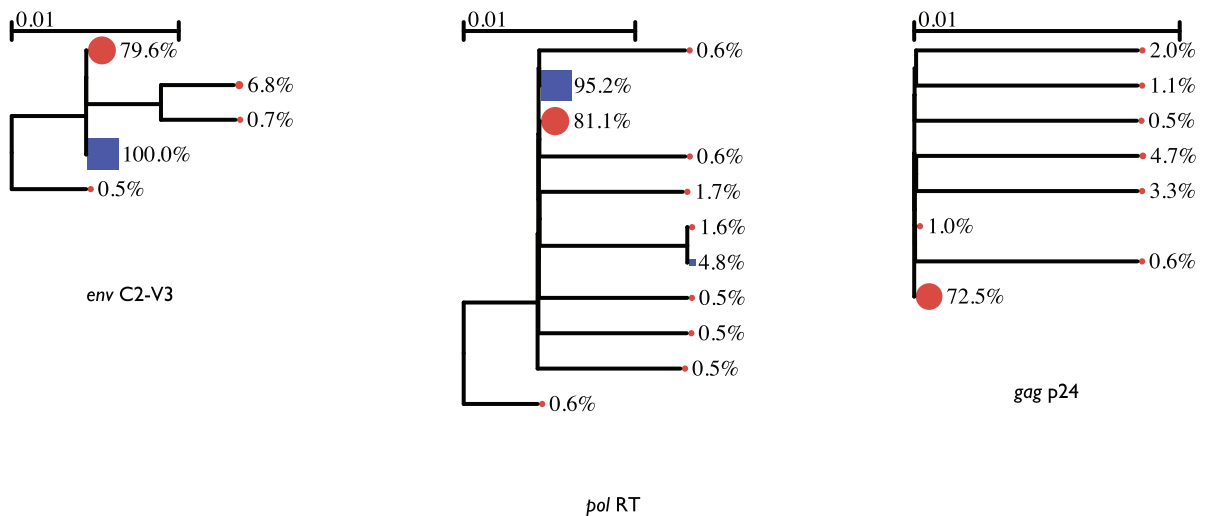

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SUPPLEMENTARY FIG. 2. Sample A, UDS duplicate 2. First year of infection. No evidence of DI. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.

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SUPPLEMENTARY FIG. 3. Sample B, UDS duplicate 1. First year of infection. No evidence of DI. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.
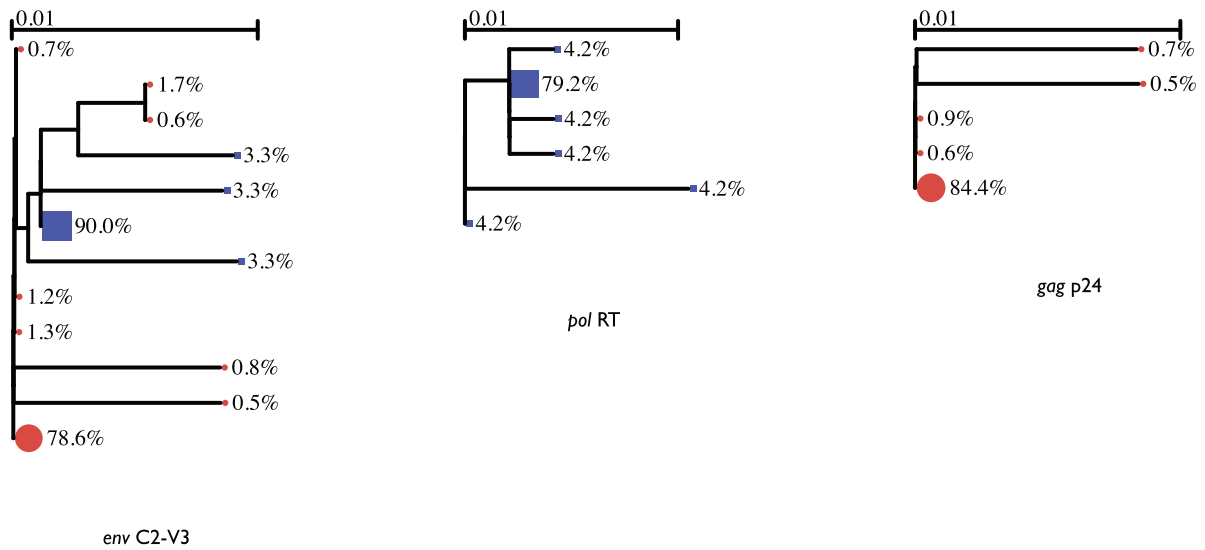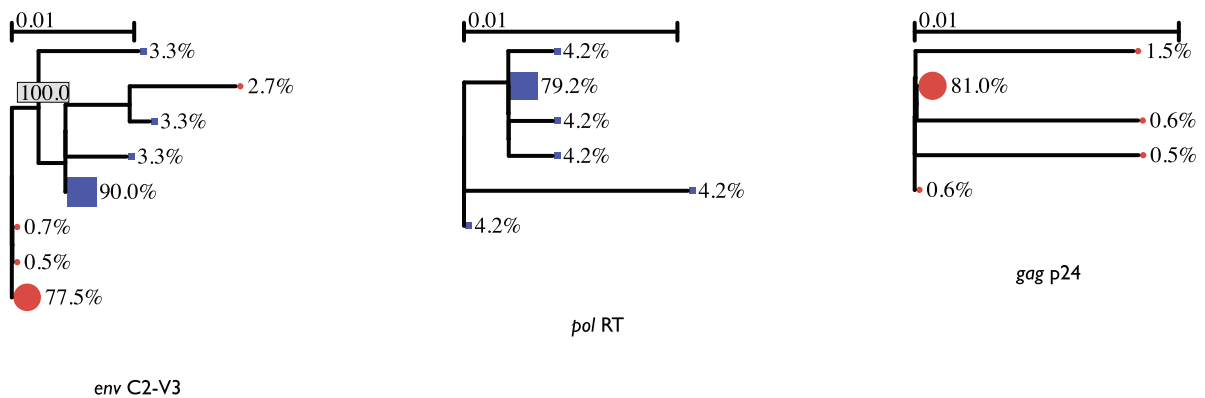

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SUPPLEMENTARY FIG. 4. Sample B, UDS duplicate 2. First year of infection. No evidence of DI. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.

SUPPLEMENTARY FIG. 5. Sample C, UDS duplicate 1. First year of infection. No evidence of DI. Insufficient UDS RT reads for analysis. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.
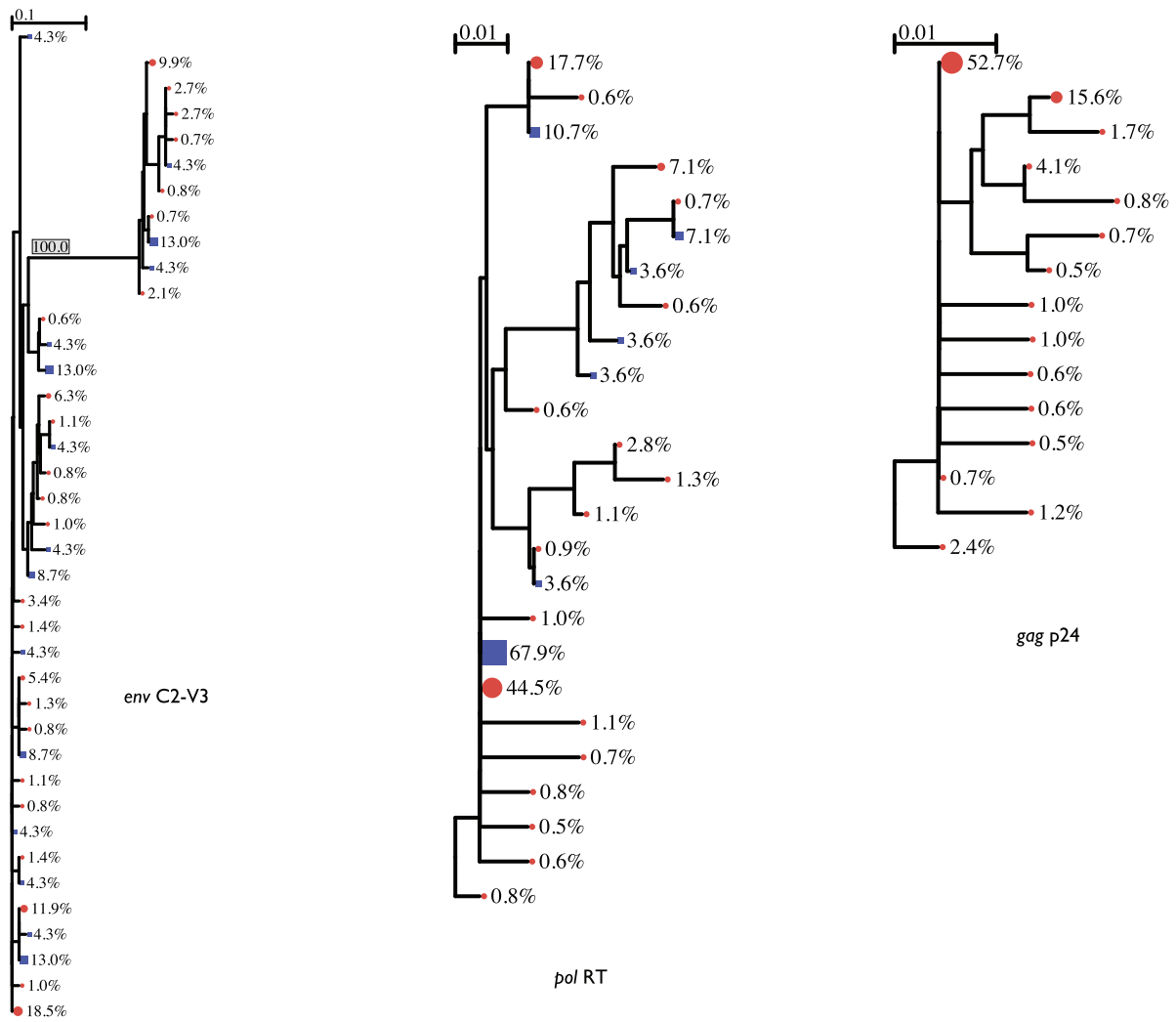

SUPPLEMENTARY FIG. 6. Sample C, UDS duplicate 2. First year of infection. No evidence of DI. Insufficient UDS RT reads for analysis. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.
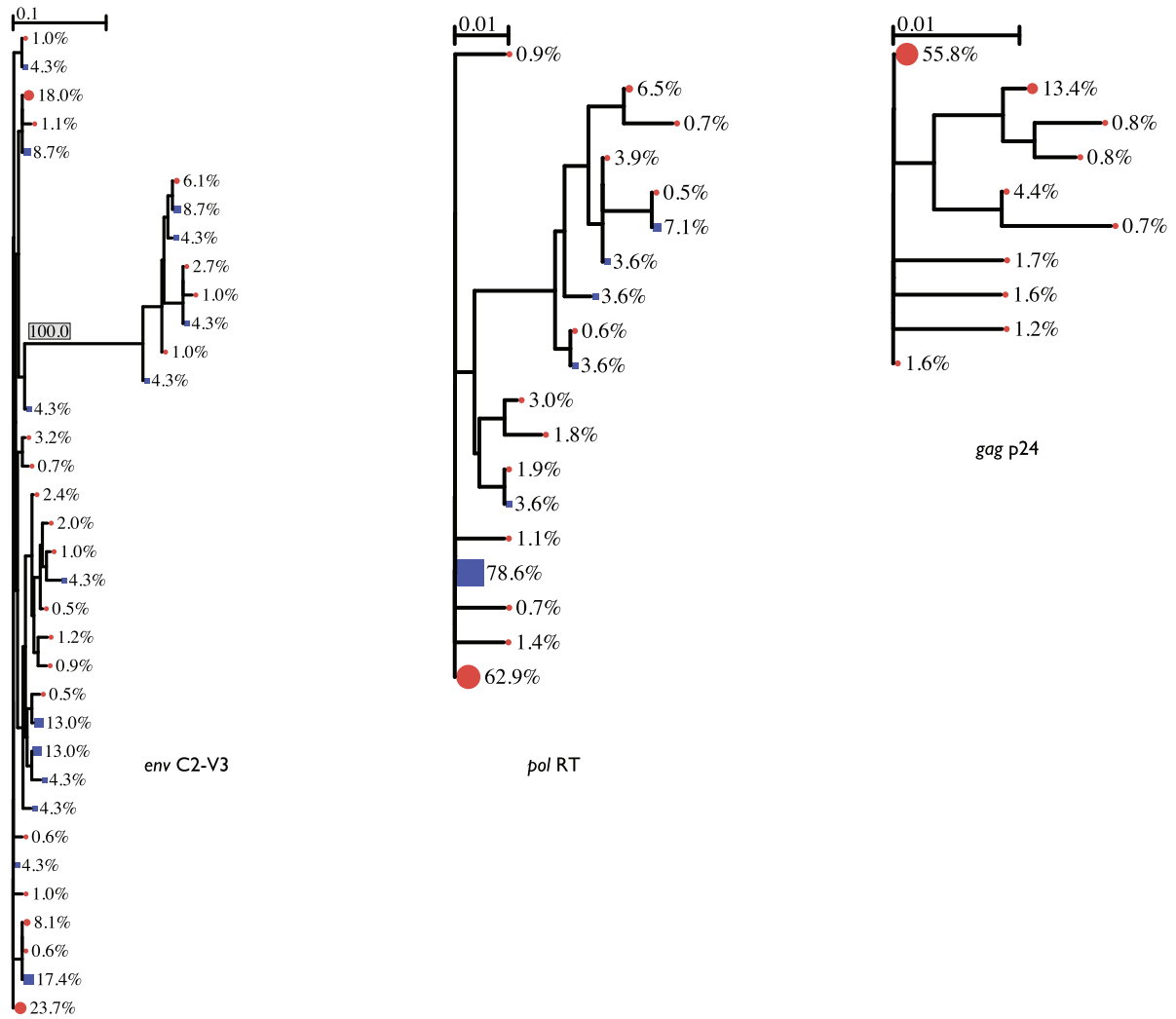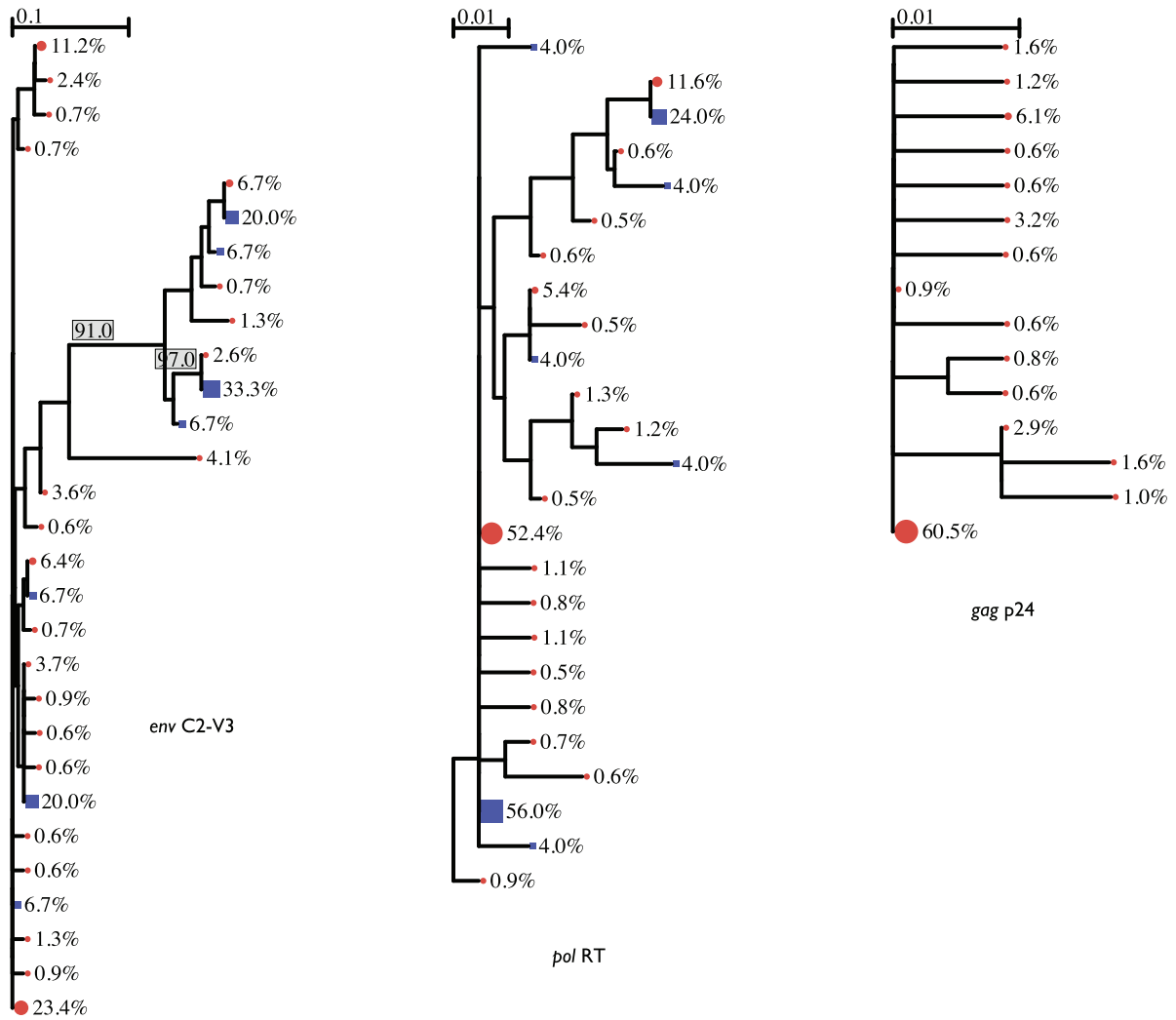
SUPPLEMENTARY FIG. 7. Sample D1, UDS duplicate 1. Third year of infection. DI in *env* and *pol*. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.

SUPPLEMENTARY FIG. 8. Sample D1, UDS duplicate 2. Third year of infection. DI in *env* and *pol*. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.
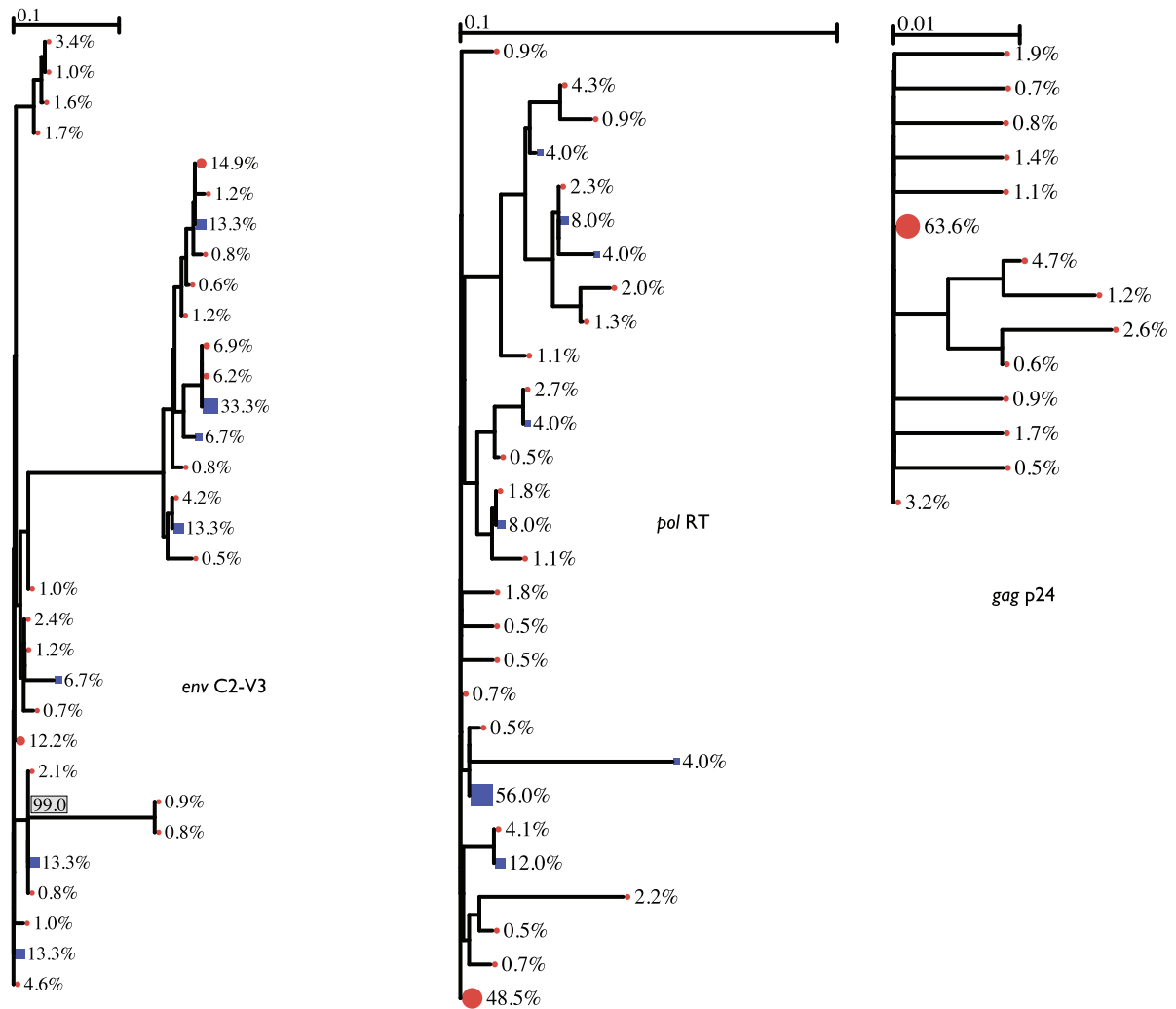
SUPPLEMENTARY FIG. 9. Sample D2, UDS duplicate 1. Third year of infection. DI in *env* and *pol*. UDS are represented as *red circles* and SGS as *blue squares.* Variant abundances per node and branches with >90% bootstrap support are labeled.
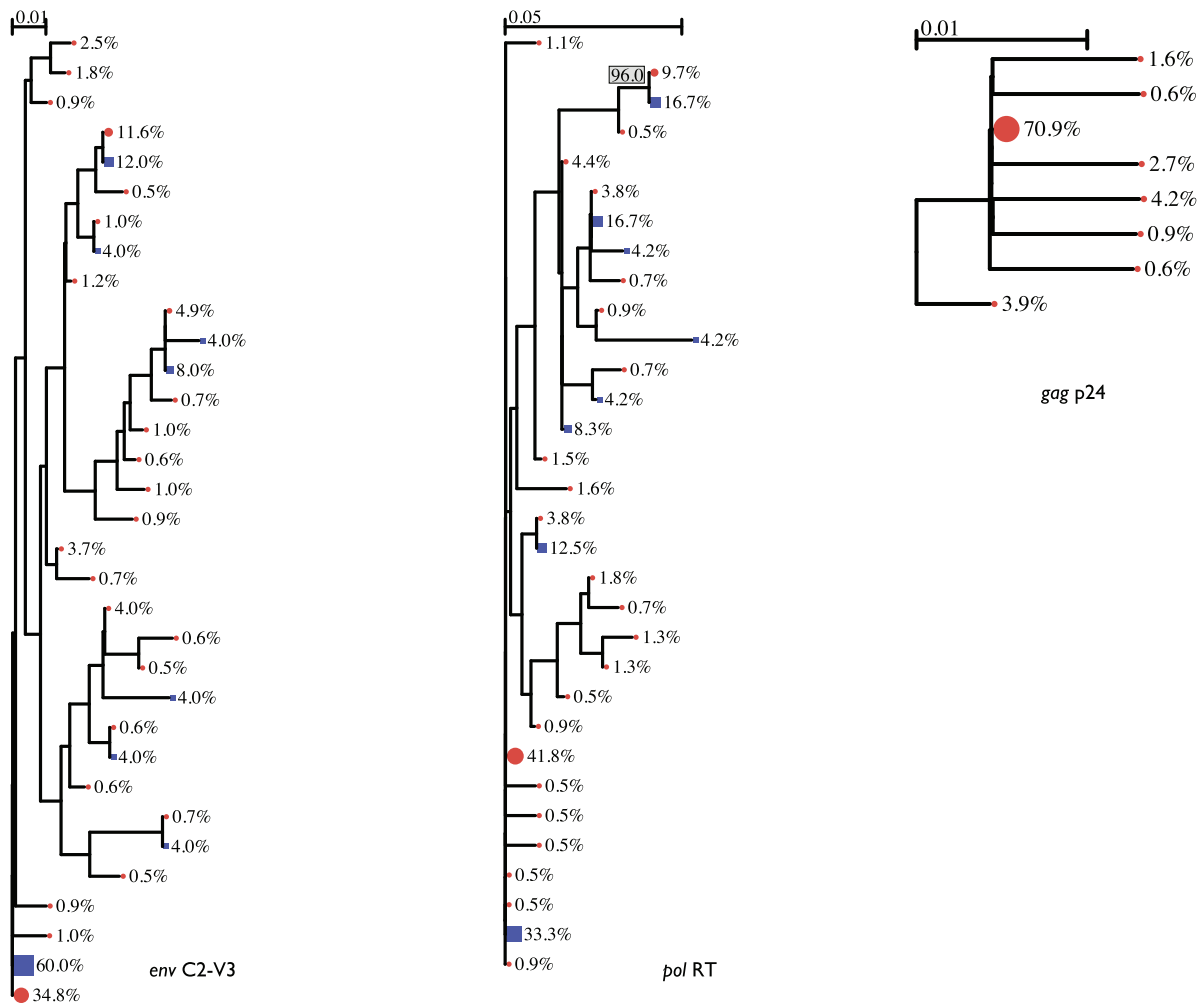
SUPPLEMENTARY FIG. 10. Sample D2, UDS duplicate 2. Third year of infection. DI in *env* and *pol*. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.
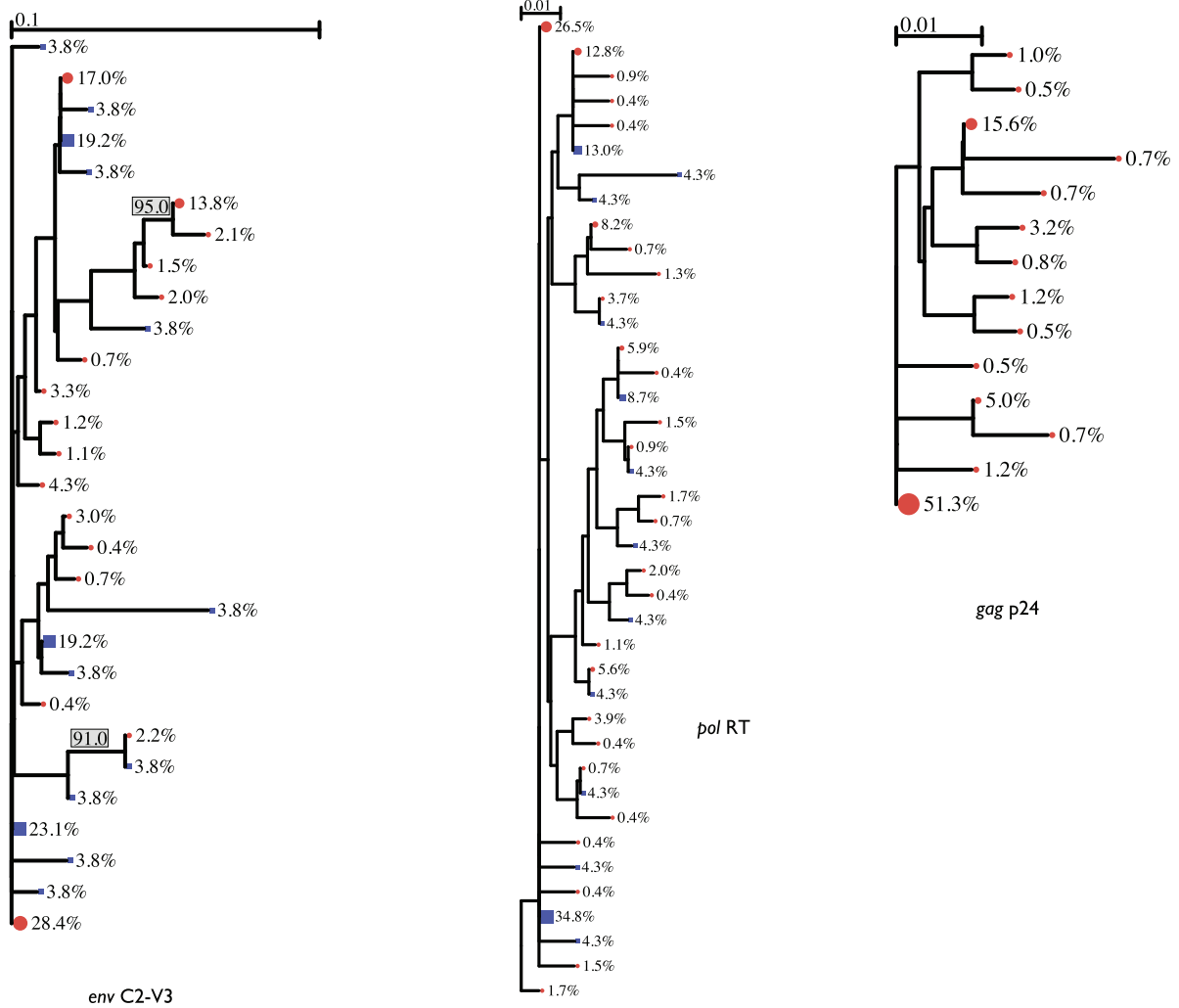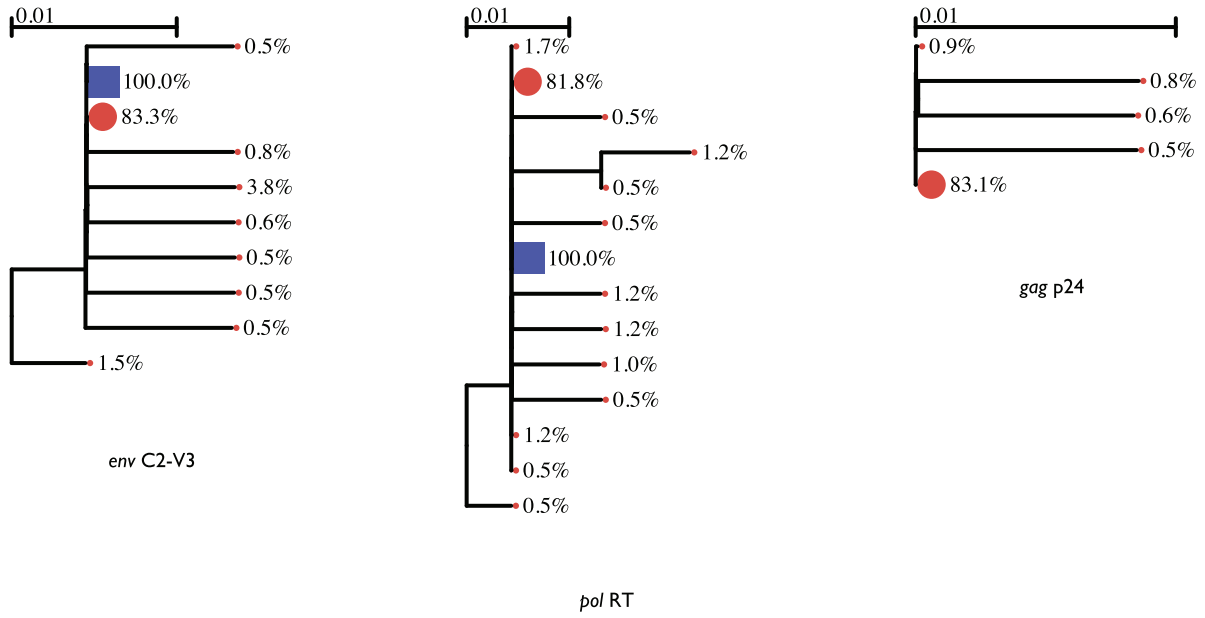
SUPPLEMENTARY FIG. 11. Sample E. Fourth year of infection. No evidence of DI. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.

SUPPLEMENTARY FIG. 12. Sample F. Fifth year of infection (third year of ART). No evidence of DI. UDS are represented as *red circles* and SGS as *blue squares.* Variant abundances per node and branches with >90% bootstrap support are labeled.
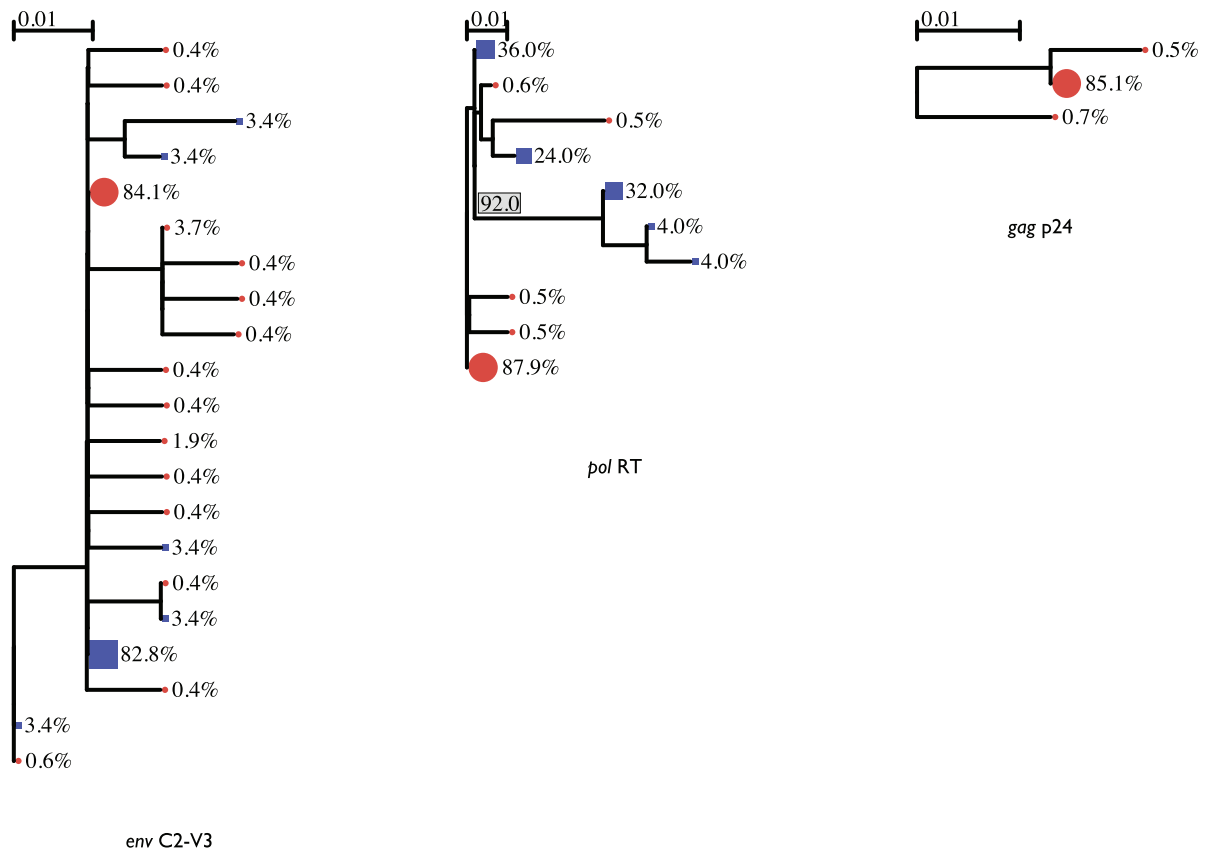
env C2-V3

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SUPPLEMENTARY FIG. 13. Sample G. First year of infection. No evidence of DI. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.
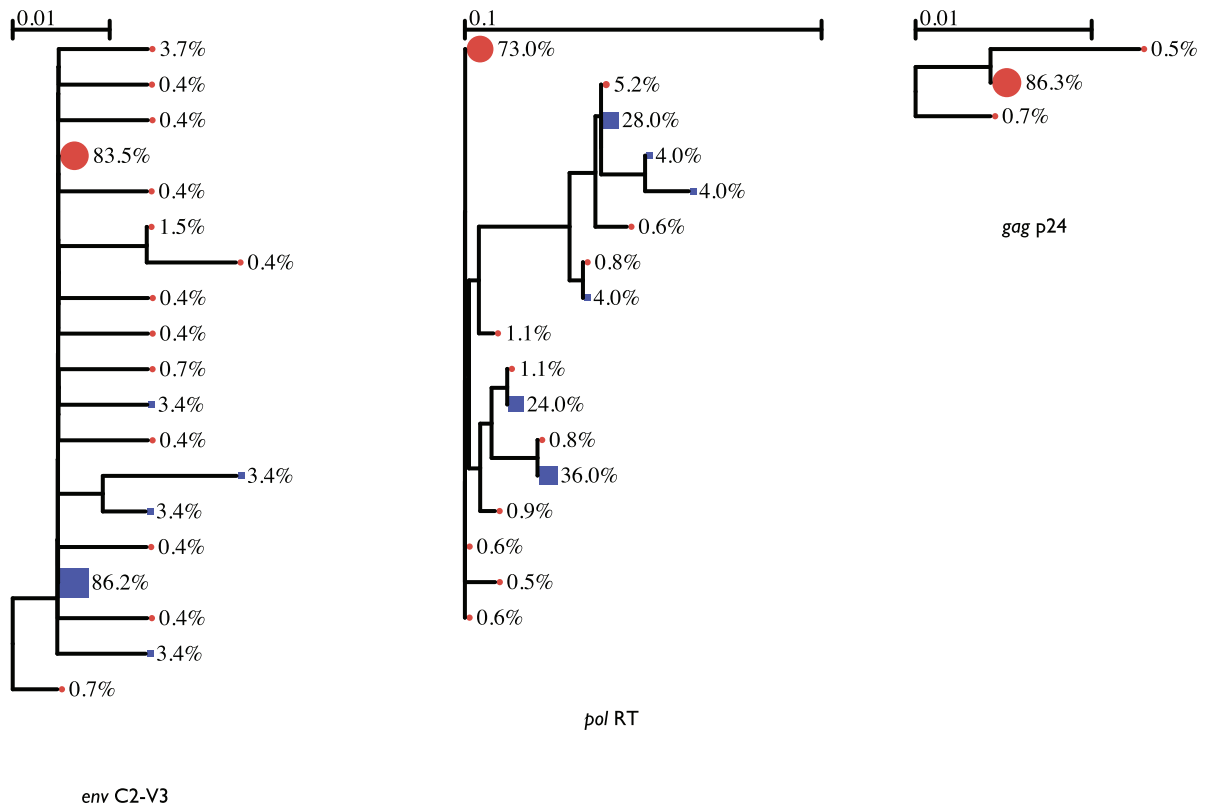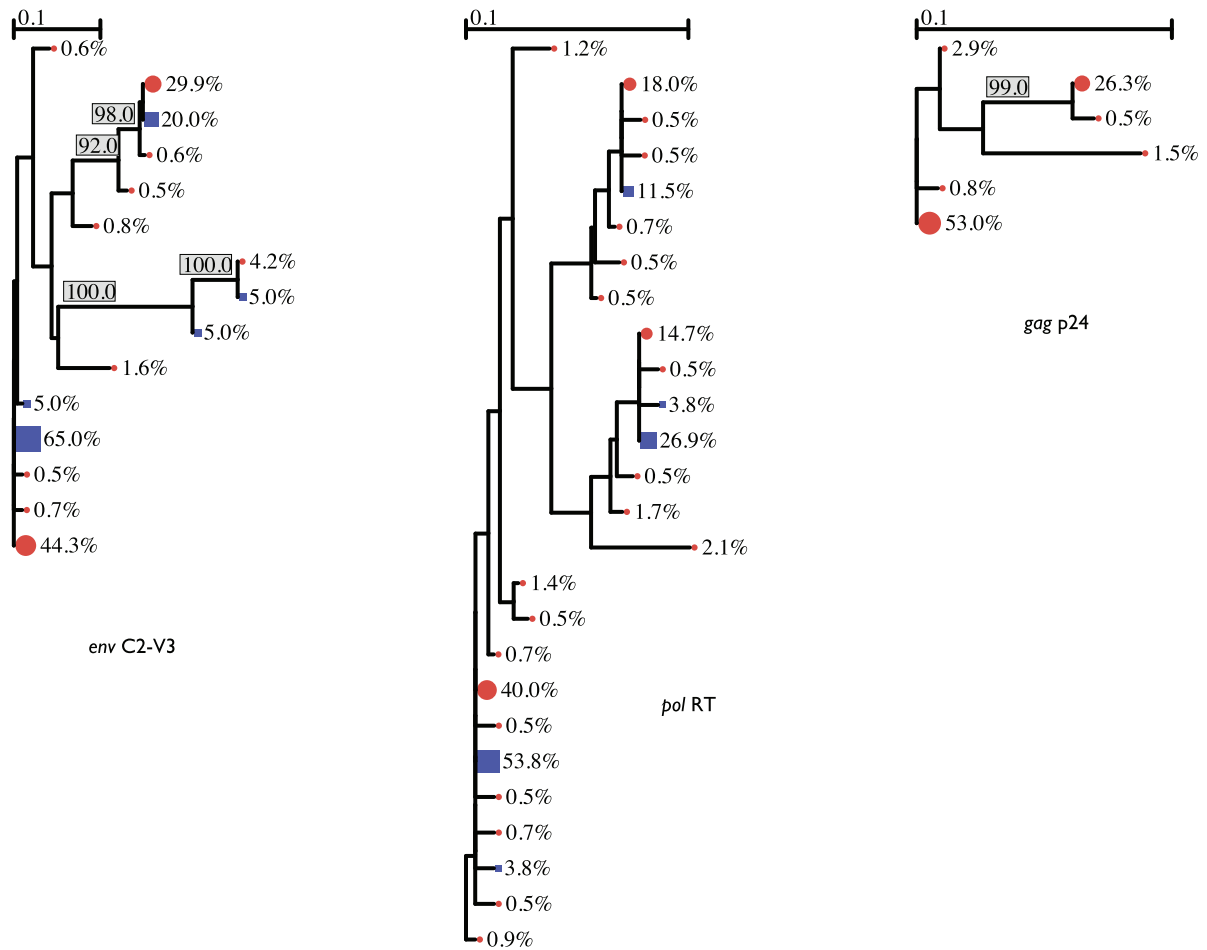
SUPPLEMENTARY FIG. 14. Sample H, UDS duplicate 1. Sixth year of infection (fifth year of ART). DI in *pol* only. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.

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gag p24

SUPPLEMENTARY FIG. 15. Sample H, UDS duplicate 2. Sixth year of infection (fifth year of ART). DI in *pol* only. UDS are represented as *red circles* and SGS as *blue squares.* Variant abundances per node and branches with >90% bootstrap support are labeled.

SUPPLEMENTARY FIG. 16. Sample I, UDS duplicate 2. First year of infection. DI in *env*, *pol*, and *gag*. UDS are represented as *red circles* and SGS as *blue squares*. Variant abundances per node and branches with >90% bootstrap support are labeled.