HIVDB 9.5.1 (2023-11-05) Drug resistance interpretation: PR

PI Major Mutations: None PI Accessory Mutations: None

V11X - T12R - I13S - K14\* - I15L - G17S - Q18A - L19R - K20A - E21A - A22P - L23G - D25K - T26A - G27N - A28R - D29E - L33V - E35D - M36I - R41K - R57K - L63P - H69K - L89M PR Other Mutations:

#### Protease Inhibitors

atazanavir/r (ATV/r) Susceptible Susceptible darunavir/r (DRV/r) fosamprenavir/r (FPV/r) Susceptible Susceptible indinavir/r (IDV/r) lopinavir/r (LPV/r) Susceptible nelfinavir (NFV) Susceptible Susceptible saquinavir/r (SQV/r) Susceptible tipranavir/r (TPV/r)

#### PR comments

# Other

L33I/V are minimally polymorphic mutations that do not appear to be selected by Pls or to reduce their susceptibility.

Mutation scoring: PR

Drug resistance interpretation: RT

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NRTI Mutations: M184V

No drug resistance mutations were found for Pl.

NNRTI Mutations: K103N • K238T

K11T - K20R - V35T - K49R - K122E - D123N - I135K - K173L - Q174K - D177E - G196K - T200E - I202V - Q207A - K219X - E233\* - L234T - P247Q - D250E - N255I - S268A - Q269N - I270L - Y271C - A272R - G273L RT Other Mutations:

#### **Nucleoside Reverse Transcriptase Inhibitors**

High-Level Resistance

abacavir (ABC) Low-Level Resistance zidovudine (AZT) Susceptible stavudine (D4T) Susceptible Potential Low-Level Resistance didanosine (DDI)

lamivudine (3TC) High-Level Resistance

tenofovir (TDF) Susceptible

#### Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR) Susceptible efavirenz (EFV) High-Level Resistance etravirine (ETR) Susceptible High-Level Resistance nevirapine (NVP)

rilpivirine (RPV) Susceptible

#### RT comments

emtricitabine (FTC)

#### NRTI

M184V/I cause high-level in vitro resistance to 3TC and FTC and low/intermediate resistance to ABC (3-fold reduced susceptibility). M184V/I are not contraindications to continued treatment with 3TC or FTC because they increase susceptibility to AZT and TDF and are associated with clinically significant reductions in HIV-1 replication.

## NNRTI

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.
- K238T/N are uncommon non-polymorphic mutations selected in persons receiving NVP and EFV usually in combination with K103N. Alone, K238T/N appear to have minimal effects on NNRTI susceptibility.

### Other

L234I is a nonpolymorphic mutation selected in persons receiving NVP and EFV. It is also selected in vitro by ETR and DOR. In combination with V106A, it is associated with high-level DOR resistance. Its effect on susceptibility when it occurs alone has not been well characterized. L234T is a highly unusual mutation at this position.

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