

PI Major Mutations:None

PI Accessory Mutations:None

PR Other Mutations:K14R 95% cov=24,857 • G16A 95% cov=25,108 • E35D 96% cov=27,074 • M36I 95% cov=27,076 • R41K 98% cov=27,081 • K43R 95% cov=26,326 • R57K 95% cov=22,290 • H69K 95% cov=19,319 • L89M 98% cov=34,852

Protease Inhibitors	
atazanavir/r (ATV/r)	Susceptible
darunavir/r (DRV/r)	Susceptible
lopinavir/r (LPV/r)	Susceptible

No drug resistance mutations were found for PI.

NRTI Mutations:M184V 98% cov=14,068

NNRTI Mutations:K103N 97% cov=5,057

RT Other Mutations:V35T 99% cov=14,063 • V60I 99% cov=11,139 • K122E 97% cov=7,043 • D123N 92% cov=7,034 • I135T 97% cov=10,846 • K173A 97% cov=16,244 • Q174K 95% cov=16,244 • D177E 98% cov=15,448 • I178V 97% cov=15,451 • Q207K 95% cov=7,058 • R211K 96% cov=7,142 • F214L 95% cov=6,622 • Q242L 79% cov=3,617 • V245Q 87% cov=2,641 • D250E 87% cov=2,355 • S251SH H: 79%, S: 18% cov=2,365 • A272AP A: 82%, D: 15% cov=1,550 • T286A 82% cov=1,256 • E291ED D: 83%, E: 34% cov=1,023 • V292VI: 83%, V: 38% cov=1,028 • I293V 96% cov=1,024 • P294PT T: 71%, P: 25% cov=1,027 • E312ED D: 58%, E: 34% cov=899

Nucleoside Reverse Transcriptase Inhibitors		Non-nucleoside Reverse Transcriptase Inhibitors	
abacavir (ABC)	Low-Level Resistance	doravirine (DOR)	Susceptible
zidovudine (AZT)	Susceptible	efavirenz (EFV)	High-Level Resistance
emtricitabine (FTC)	High-Level Resistance	etravirine (ETR)	Susceptible
lamivudine (3TC)	High-Level Resistance	nevirapine (NVP)	High-Level Resistance
tenofovir (TDF)	Susceptible	rilpivirine (RPV)	Susceptible

RT comments

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.

Drug resistance mutation scores of NRTI:

Rule	ABC ⚡	AZT ⚡	FTC ⚡	3TC ⚡	TDF ⚡
M184V	15	-10	60	60	-10

Drug resistance mutation scores of NNRTI:

Rule	DOR ⚡	EFV ⚡	ETR ⚡	NVP ⚡	RPV ⚡
K103N	0	60	0	60	0