

PI Major Mutations:

PI Accessory Mutations:

PR Other Mutations:

I15V100%
seen=17,383

•

K20R100%
seen=17,383

•

E35D100%
seen=17,372

•

M36I100%
seen=17,387

•

R41K100%
seen=17,842

•

R57K100%
seen=17,835

•

I62V100%
seen=17,835

•

L63P100%
seen=17,872

•

H69K100%
seen=18,381

•

V75I100%
seen=18,225

•

L89M100%
seen=18,221

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

PR comments

Other

- K20R is a highly polymorphic PI-selected accessory mutation that increases replication fitness in viruses with PI-resistance mutations.

No drug resistance mutations were found for PI.

NRTI Mutations:

NNRTI Mutations:

RT Other Mutations:

T77P100%
seen=13,698

•

V35T100%
seen=14,344

•

E36D100%
seen=15,241

•

T39M100%
seen=15,221

•

V60I100%
seen=15,783

•

K104R100%
seen=15,814

•

K1122E100%
seen=15,812

•

D1123N100%
seen=15,823

•

I1135T100%
seen=15,278

•

K1173S100%
seen=16,217

•

Q1174K100%
seen=16,217

•

V1179I100%
seen=16,781

•

T200E100%
seen=16,219

•

Q207A100%
seen=16,283

•

R211S100%
seen=15,802

•

F214L100%
seen=15,281

•

V245Q100%
seen=16,841

•

A272P100%
seen=17,381

•

T286A100%
seen=15,225

•

E291D100%
seen=16,591

•

I293V100%
seen=16,897

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

RT comments

NRTI

- K219E/Q/N/R are accessory TAMs that usually occur in combination with multiple other TAMs.

NNRTI

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.

Other

- V179I is a polymorphic mutation that is frequently selected in persons receiving ETR and RPV. However, it has little, if any, direct effect on NNRTI susceptibility.

Drug resistance mutation scores of NRTI:

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Rule	ABC	AZT	FTC	3TC	TDF
K219KE	5	10	0	0	5

Drug resistance mutation scores of NNRTI:

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