

Drug resistance interpretation: PR	HIVDB 9.5.1 (2023-11-05)
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PI Major Mutations:	None
PI Accessory Mutations:	None
PR Other Mutations:	G16E <small>100% HIV-2T_280</small> • N37ND <small>100% HIV-2T_280</small> • R41K <small>100% HIV-2T_280</small> • R57K <small>100% HIV-2T_280</small> • I64V <small>100% HIV-2T_280</small> • E65N <small>100% HIV-2T_280</small> • I72V <small>100% HIV-2T_280</small> • V77I <small>100% HIV-2T_280</small>
<b>Protease Inhibitors</b>	
atazanavir/r (ATV/r)	Susceptible
darunavir/r (DRV/r)	Susceptible
fosamprenavir/r (FPV/r)	Susceptible
indinavir/r (IDV/r)	Susceptible
lopinavir/r (LPV/r)	Susceptible
nelfinavir (NFV)	Susceptible
saquinavir/r (SQV/r)	Susceptible
tipranavir/r (TPV/r)	Susceptible
Mutation scoring: PR	
No drug resistance mutations were found for PI.	
Drug resistance interpretation: RT	

NRTI Mutations:	L74I <small>100% HIV-2T_280</small> • M184V <small>100% HIV-2T_280</small> • L210W <small>100% HIV-2T_280</small> • T215Y <small>100% HIV-2T_280</small>
NNRTI Mutations:	K103N <small>100% HIV-2T_280</small> • P225H <small>100% HIV-2T_280</small> • K238T <small>100% HIV-2T_280</small>
RT Other Mutations:	I31L <small>100% HIV-2T_280</small> • V35T <small>100% HIV-2T_280</small> • T39K <small>100% HIV-2T_280</small> • K43E <small>100% HIV-2T_280</small> • K49R <small>100% HIV-2T_280</small> • V60I <small>100% HIV-2T_280</small> • I94L <small>100% HIV-2T_280</small> • V118I <small>100% HIV-2T_280</small> • D121Y <small>100% HIV-2T_280</small> • K122E <small>100% HIV-2T_280</small> • T163I <small>100% HIV-2T_280</small> • D177E <small>100% HIV-2T_280</small> • T200K <small>100% HIV-2T_280</small> • Q207E <small>100% HIV-2T_280</small> • R211K <small>100% HIV-2T_280</small> • L228Q <small>100% HIV-2T_280</small> • V243K <small>100% HIV-2T_280</small> • D250E <small>100% HIV-2T_280</small> • A272P <small>100% HIV-2T_280</small> • K277R <small>100% HIV-2T_280</small> • T286A <small>100% HIV-2T_280</small> • I293V <small>100% HIV-2T_280</small>
<b>Nucleoside Reverse Transcriptase Inhibitors</b>	
abacavir (ABC)	Intermediate Resistance
zidovudine (AZT)	High-Level Resistance
stavudine (D4T)	Intermediate Resistance
didanosine (DDI)	High-Level Resistance
emtricitabine (FTC)	High-Level Resistance
lamivudine (3TC)	High-Level Resistance
tenofovir (TDF)	Low-Level Resistance
<b>Non-nucleoside Reverse Transcriptase Inhibitors</b>	
doravirine (DOR)	Intermediate Resistance
efavirenz (EFV)	High-Level Resistance
etravirine (ETR)	Susceptible
nevirapine (NVP)	High-Level Resistance
rilpivirine (RPV)	Susceptible
RT comments	
NRTI	
<ul style="list-style-type: none"><li>L74V causes intermediate ABC resistance. <b>L74I</b> causes low-level ABC resistance.</li><li><b>M184V/I</b> cause high-level in vitro resistance to 3TC and FTC and low/intermediate resistance to ABC (3-fold reduced susceptibility). <b>M184V/I</b> 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.</li><li><b>L210W</b> is a TAM that usually occurs in combination with M41L and T215Y. The combination of M41L, <b>L210W</b> and T215Y causes high-level resistance to AZT and intermediate resistance to ABC and TDF.</li><li><b>T215Y/F</b> are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to ABC and TDF.</li></ul>	
NNRTI	
<ul style="list-style-type: none"><li><b>K103N</b> is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.</li><li><b>P225H</b> is a non-polymorphic EFV-selected mutation that usually occurs in combination with K103N. The combination of <b>P225H</b> and K103N synergistically reduces NVP, EFV and DOR susceptibility.</li><li><b>K238T/N</b> are uncommon non-polymorphic mutations selected in persons receiving NVP and EFV usually in combination with K103N. Alone, <b>K238T/N</b> appear to have minimal effects on NNRTI susceptibility.</li></ul>	
Other	
<ul style="list-style-type: none"><li><b>V118I</b> is a polymorphic accessory NRTI-resistance mutation that often occurs in combination with multiple TAMs.</li></ul>	

Mutation scoring: RT	HIVDB 9.5.1 (2023-11-05)
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Drug resistance mutation scores of NRTI:

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Rule	ABC	AZT	D4T	DDI	FTC	3TC	TDF
<u>L74I</u>	15	0	0	60	0	0	5
<u>M184V</u>	15	-10	-10	10	60	60	-10
<u>L210W</u>	5	15	15	10	0	0	5
<u>L210W + T215Y</u>	10	10	10	10	0	0	10
<u>T215Y</u>	10	60	40	15	0	0	10
Total	55	75	35	105	60	60	20

Drug resistance mutation scores of NNRTI:

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Rule	DOR	EFV	ETR	NVP	RPV
K103N + P225H	10	0	0	0	0
P225H	20	45	0	45	0
K103N	0	60	0	60	0
K238T	0	30	0	30	0
Total	30	135	0	135	0