

Drug resistance interpretation: PR		HIVDB 9.5.1 (2023-11-05)
PI Major Mutations:	None	
PI Accessory Mutations:	None	
PR Other Mutations:	I13V <small>100% seen=25,824</small> • K14R <small>99% seen=25,347</small> • G16E <small>99% seen=25,521</small> • E35Q <small>100% seen=27,090</small> • M36I <small>100% seen=27,090</small> • R41K <small>99% seen=27,042</small> • K45KR <small>91.59%, 91.21% seen=26,280</small> • H59K <small>99% seen=25,252</small> • I72V <small>100% seen=25,098</small> • L89M <small>100% seen=25,035</small>	
Protease Inhibitors		
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		HIVDB 9.5.1 (2023-11-05)

Drug resistance interpretation: RT	HIVDB 9.5.1 (2023-11-05)
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NRTI Mutations:	E44D <small>99% seen=14,302</small> • V75M <small>99% seen=7,217</small> • M184V <small>100% seen=25,067</small>
NNRTI Mutations:	K103N <small>99% seen=4,506</small> • V179T <small>99% seen=24,238</small> • P225H <small>99% seen=25,527</small>
RT Other Mutations:	E6D <small>99% seen=21,511</small> • V89I <small>91.73%, 91.29% seen=24,308</small> • I31L <small>100% seen=25,736</small> • V35T <small>99% seen=25,025</small> • T39TA <small>91.71%, 91.29% seen=14,775</small> • V60I <small>100% seen=22,302</small> • K122E <small>99% seen=6,205</small> • S162C <small>100% seen=25,525</small> • S163ST <small>91.79%, 91.22% seen=25,302</small> • K173S <small>99% seen=25,037</small> • Q174K <small>100% seen=25,037</small> • D177E <small>100% seen=14,238</small> • I178IV <small>91.52%, 91.09% seen=14,238</small> • Q207S <small>99% seen=22,479</small> • R211K <small>99% seen=25,040</small> • I244IM <small>91.91%, 90.23% seen=25,022</small> • V245Q <small>99% seen=22,521</small> • D250E <small>99% seen=25,250</small> • S251D <small>99% seen=22,250</small> • A272P <small>100% seen=14,530</small> • L282C <small>100% seen=14,852</small> • R284RK <small>91.59%, 91.02% seen=23,080</small> • T286V <small>100% seen=25,791</small> • V292I <small>99% seen=25,301</small> • I293V <small>100% seen=25,039</small> • P294S <small>100% seen=25,200</small>

Nucleoside Reverse Transcriptase Inhibitors		Non-nucleoside Reverse Transcriptase Inhibitors	
abacavir (ABC)	Low-Level Resistance	doravirine (DOR)	Intermediate Resistance
zidovudine (AZT)	Susceptible	efavirenz (EFV)	High-Level Resistance
stavudine (D4T)	Low-Level Resistance	etravirine (ETR)	Susceptible
didanosine (DDI)	Low-Level Resistance	nevirapine (NVP)	High-Level Resistance
emtricitabine (FTC)	High-Level Resistance	rilpivirine (RPV)	Susceptible
lamivudine (3TC)	High-Level Resistance		
tenofovir (TDF)	Susceptible		

RT comments	
NRTI	
<ul style="list-style-type: none"><li>E44D is a relatively non-polymorphic accessory mutation; E44A is a nonpolymorphic accessory mutation. Each usually occurs with multiple TAMs.</li><li>V75T)M)A)S are nonpolymorphic accessory NRTI-selected mutations. They appear to have minimal phenotypic effects on AZT, ABC, and TDF.</li><li>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.</li></ul>	
NNRTI	
<ul style="list-style-type: none"><li>K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. It is the most commonly transmitted DRM.</li><li>V179T is a rare non-polymorphic mutation occasionally selected in persons receiving NNRTIs. It is associated with minimal, if any, reduction in ETR and RPV susceptibility.</li><li>P225H is a non-polymorphic EFV-selected mutation that usually occurs in combination with K103N. The combination of P225H and K103N synergistically reduces NVP, EFV and DOR susceptibility.</li></ul>	

Mutation scoring: RT	HIVDB 9.5.1 (2023-11-05)
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Drug resistance mutation scores of NRTI:								Download CSV	▼
Rule	ABC	AZT	D4T	DDI	FTC	3TC	TDF		
M184V	15	-10	-10	10	60	60	-10		
V75M	0	10	30	15	0	0	0		
Total	15	0	20	25	60	60	-10		

Drug resistance mutation scores of NNRTI:						Download CSV	▼
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		
Total	30	105	0	105	0		