

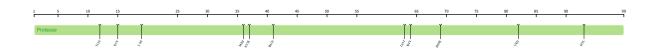
A curated public database to represent, store and analyze HIV drug resistance data.

1. userinput unamed sample: 1

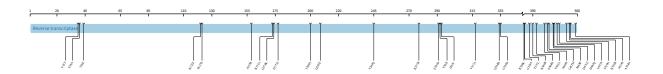
Sequence summary

Sequence quality assessment

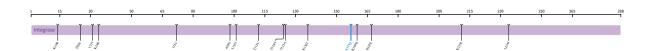
Protease (PR)



Reverse transcriptase (RT)



Integrase (IN)



There are no known sequence quality issues.

Drug resistance interpretation: PR

HIVDB 9.8 (2025-01-05)

PI Major Mutations: None PI Accessory Mutations: None

PR Other Mutations: T12S • I15V • L19I • M36I • N37K • R41N • L63T • I64V • H69K • V82I • I93L

Protease Inhibitors

 atazanavir/r (ATV/r)
 Susceptible

 darunavir/r (DRV/r)
 Susceptible

 lopinavir/r (LPV/r)
 Susceptible

PR comments

Other

• V82I is a highly polymorphic mutation that is not selected by PIs. It is the consensus amino acid in subtype G viruses.

Mutation scoring: PR HIVDB 9.8 (2025-01-05)

No drug resistance mutations were found for Pl.

Drug resistance interpretation: RT

HIVDB 9.8 (2025-01-05)

NRTI Mutations: None NNRTI Mutations: None

RT Other Mutations: V35T • E36A • T39E • K122E • D123S • A158S • K173A • Q174K • D177E • T200A • Q207E • V245Q • K277R • E291D • V292I •

1293V • V317A • Q334H • G335D • R356K • G359T • T377L • K390R • E404D • V435A • A446S • L452M • S468P • D471E • H483Q •

L491S • S519N • K530R • A534S • A554N

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

Succeptible derayiring (DOR)

Succeptible

abacavir (ABC) Susceptible doravirine (DOR) Susceptible zidovudine (AZT) Susceptible efavirenz (EFV) Susceptible emtricitabine (FTC) Susceptible etravirine (ETR) Susceptible lamivudine (3TC) Susceptible nevirapine (NVP) Susceptible tenofovir (TDF) Susceptible rilpivirine (RPV) Susceptible

Mutation scoring: RT HIVDB 9.8 (2025-01-05)

No drug resistance mutations were found for NRTI.

No drug resistance mutations were found for NNRTI.

Drug resistance interpretation: IN

HIVDB 9.8 (2025-01-05)

INSTI Major Mutations: None INSTI Accessory Mutations: E157Q

IN Other Mutations: K14R • D25E • V31I • K34R • I72V • A98G • L101I • T112V • T124N • T125A • K136T • K160Q • D167E • K211R • L234I

Integrase Strand Transfer Inhibitors

 bictegravir (BIC)
 Susceptible

 cabotegravir (CAB)
 Susceptible

 dolutegravir (DTG)
 Susceptible

 elvitegravir (EVG)
 Potential Low-Level Resistance

 raltegravir (RAL)
 Potential Low-Level Resistance

IN comments

Accessory

• **E157Q** is a polymorphic mutation selected in persons receiving RAL, EVG, and possibly the second generation INSTIs. Alone, it appears to have little effect on INSTI susceptibility. It is uncertain whether it contributes to reduced susceptibility in combination with R263K.

Mutation scoring: IN HIVDB 9.8 (2025-01-05)

Drug resistance mutation scores of INSTI:

Rule	BIC	САВ	DTG	EVG	RAL
E157Q	0	0	0	10	10

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