

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

1. userinput unamed sample: 1

Sequence summary

 Sequence includes PR:
 codons 1 - 99

 Sequence includes RT:
 codons 1 - 560

 Sequence includes IN:
 codons 1 - 288

 Subtype:

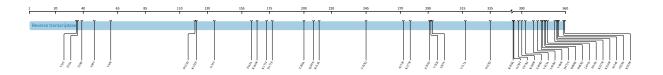
 ⊕ C (3.38%)

Sequence quality assessment

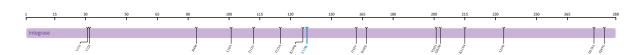
Protease (PR)



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 • L19I • M36I • R41K • H69K • L89M • I93L

Protease Inhibitors

atazanavir/r (ATV/r)Susceptibledarunavir/r (DRV/r)Susceptiblelopinavir/r (LPV/r)Susceptible

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

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT HIVDB 9.8 (2025-01-05)

NRTI Mutations: None NNRTI Mutations: None

RT Other Mutations: V35T • E36A • T39D • S48T • V60I • D121H • K122E • I135T • S162A • K166R • K173T • D177E • T200A • Q207E • R211K •

V245Q • A272P • K277R • E291D • V292I • I293V • V317A • G335D • R356K • G359T • T377M • K390R • E404D • V435A • L452M •

Susceptible

V466I • D471E • Q480H • H483Q • L491S • S519N • K527R • K530R • A534S • A554N • K558R

Nucleoside Reverse Transcriptase Inhibitors Non-nucleoside Reverse Transcriptase Inhibitors abacavir (ABC) Susceptible doravirine (DOR) Susceptible zidovudine (AZT) Susceptible efavirenz (EFV) Susceptible emtricitabine (FTC) Susceptible etravirine (ETR) Susceptible lamivudine (3TC) Susceptible nevirapine (NVP) Susceptible

Susceptible rilpivirine (RPV)

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

No drug resistance mutations were found for NRTI.

No drug resistance mutations were found for NNRTI.

Drug resistance interpretation: IN

tenofovir (TDF)

HIVDB 9.8 (2025-01-05)

INSTI Major Mutations: E138K **INSTI Accessory Mutations:** None

IN Other Mutations: V31I · V32I · I84M · L101I · T112V · T125A · K136Q · I162V · D167E · V201I · I203M · K215N · L234I · D278A · S283G

Integrase Strand Transfer Inhibitors

bictegravir (BIC) Potential Low-Level Resistance cabotegravir (CAB) Low-Level Resistance dolutegravir (DTG) Potential Low-Level Resistance elvitegravir (EVG) Low-Level Resistance Low-Level Resistance

IN comments

raltegravir (RAL)

Major

E138K/A/T are common nonpolymorphic accessory resistance mutations selected in patients receiving RAL, EVG, CAB, and DTG. Alone they do not reduce INSTI susceptibility. However, they contribute to reduced susceptibility in combination with other mutations particularly those at position 148.

Dosage

This virus is predicted to have low-level reduced susceptibility to CAB. The use of the combination of CAB/RPV should be considered to be relatively contraindicated

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

Drug resistance mutation scores of INSTI:

Rule	BIC	САВ	DTG	EVG	RAL
E138K	10	15	10	15	15

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