



## I. General information

Patient:	Study Id:
Birth date:	Viral load:
Sample received:	Sample collected:
Sample ID: 12	Predicted subtype: B (100%)
Sample type:	Report date: October 6, 2018
Physician:	Reported by:

## II. Substitutions

(relative to the reference strain HXB2)

Protease:	L19I, S37T, M46I/M, I50L, Q58E, L63P, I64L, A71V, I72I/R, V77I, V82A/V, N88N/S
Reverse transcriptase:	

## III. Phenotype prediction

Drug	Resistance Factor RF (*)	z-score	Scored Positions (**)
ZDV	0	0	
ddI	0	0	
d4T	0	0	
3TC	0	0	
ABC	0	0	
TDF	0	0	
NVP	0	0	
EFV	0	0	
ETR (***)	Susceptible		
RPV (***)	Susceptible		
SQV	3.456	3.46	48G 73G 90L 84I 54I <u>11V</u> 74T 53F 95C <u>26T</u> 80T <u>34E</u> 47I <u>97L</u> 24L
IDV	14.904	6.773	54I 29D 73G 21E <u>65E</u> 84I <u>46I</u> <u>11V</u> 85I <u>30D</u> 90L <u>88S</u> <u>78G</u> 98N 76L
NFV	23.858	6.904	54I 30D <u>97L</u> 20K 73G <u>68G</u> 90L 36M <u>46I</u> <u>88S</u> <u>31T</u> 75V 74T 84I <u>5L</u>
APV	5.757	5.186	54I 76L 84I 32V <u>46I</u> 85I <u>22A</u> <u>63P</u> 47I 13I <u>97L</u> 45K <u>58E</u> 21E 29D
LPV	8.329	6.262	54I 84I <u>46I</u> <u>76L</u> 10L <u>22A</u> <u>7Q</u> <u>63P</u> 24L 20K 25D <u>82A</u> 47I 92Q 90L
TPV	2.656	2.093	<u>69H</u> <u>48G</u> 84I 33L 54I 47I 15I <u>91T</u> <u>71V</u> 20K 90L <u>82V</u> <u>74T</u> <u>46M</u> <u>88N</u>
DRV	1.862	1.475	47I 84I 54I 33L 76L 74T 43K 73G 36M <u>65E</u> 48G <u>93I</u> 10L <u>15I</u>
ATV	13.125	7.327	54I 48G 73G 84I <u>82A</u> <u>4T</u> <u>88S</u> 90L <u>7Q</u> 36M 20K 24L <u>76L</u> 45K 32V

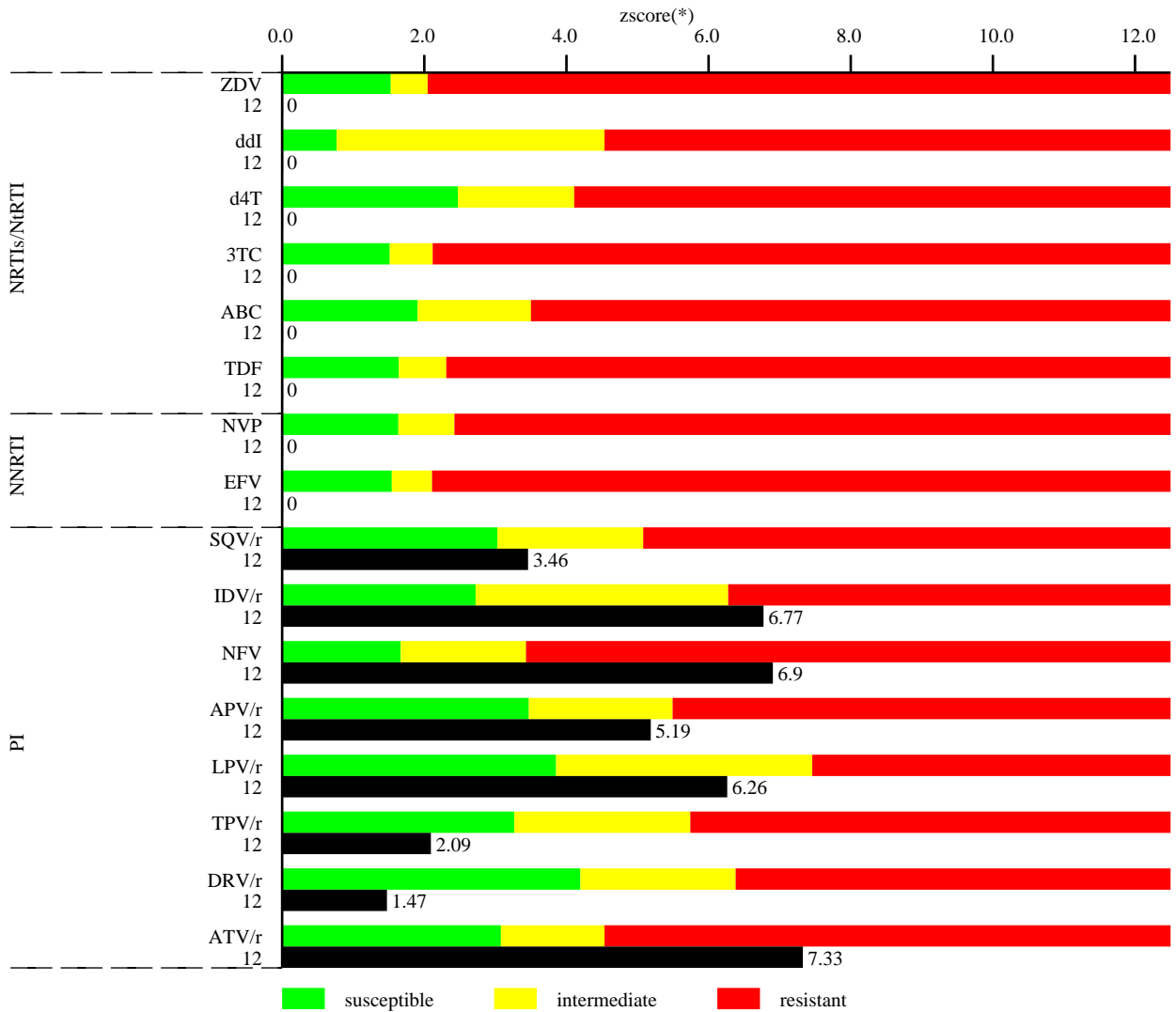
(\*) based on LIBSVM, Copyright (c) 2000, Chih-Chung Chang and Chih-Jen Lin

(\*\*) Positions are ordered according to their impact on the phenotype prediction. Differences with respect to HXB2 are underlined. Positions shown in red and in green contribute to an increase or decrease in resistance, respectively. At most 15 positions are shown for each drug.

(\*\*\*) Resistance predictions and scored mutations for ETR and RPV were performed with rules-based drug-resistance interpretation models by HIV-GRADE (<http://www.hiv-grade.de>)

## IV. Interpretation

Patient:	Birth date:	Sampling date:
Current therapy:	Viral load:	



(\*)number of standard deviations above mean of drug naive patients. Negative z-scores may indicate hypersusceptibility.

NRTIs/NtRTI:

NNRTIs:

PIs:

Previous genotypes:

date

signature