



## phenotype prediction from genotype (version 3.4)

### I. General information

Patient:	Study Id:
Birth date:	Viral load:
Sample received:	Sample collected:
Sample ID: 43	Predicted subtype: B (100%)
Sample type:	Report date: October 6, 2018
Physician:	Reported by:

### II. Substitutions (relative to the reference strain HXB2)

Protease:	V3I, L10V, I13V, M46I, L63P, A71T, V77I, L90M
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	5.712	4.922	48G 73G 84I 54I 11V 74T 88N <u>90M</u> 53F 95C 26T 1P 80T 34E 47I
IDV	6.11	4.361	54I 82V 88N <u>90M</u> 29D 1P <u>71T</u> 73G 21E 65E 84I <u>46L</u> 11V 85I 30D
NFV	10.122	4.885	88N 54I 30D <u>90M</u> 82V 97L 20K 73G 68G 36M <u>46L</u> 31T 75V 74T 84I
APV	3.314	3.439	54I 76L 50I 84I 32V <u>46L</u> 85I 22A <u>63P</u> 1P 47I 82V <u>90M</u> 97L 45K
LPV	3.939	4.095	54I 82V 84I 50I <u>46L</u> 76L 22A <u>7Q</u> <u>63P</u> 24L 20K 25D 47I 92Q <u>2Q</u>
TPV	1.427	0.746	<u>69H</u> <u>46L</u> <u>48G</u> 84I 33L <u>90M</u> 54I 47I 72I 15I 91T 20K 82V 74T <u>10V</u>
DRV	1.621	1.101	47I 84I 54I 33L 76L 74T 43K 73G 36M 65E 48G 93I 15I <u>7Q</u> 8R
ATV	3.976	3.632	54I 48G 73G 84I 82V <u>90M</u> <u>71T</u> 4T 88N <u>7Q</u> 36M 20K 24L <u>76L</u> 45K

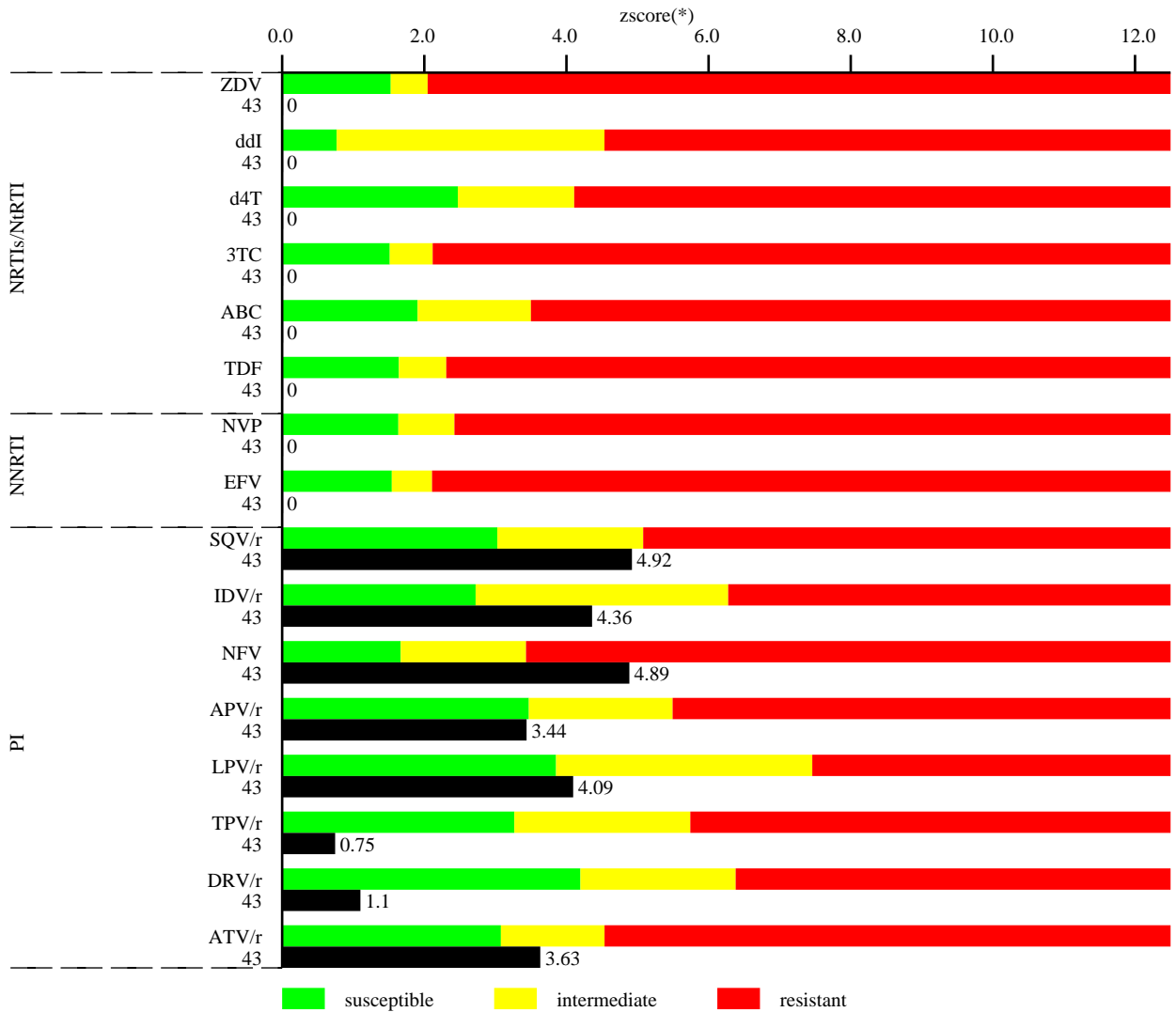
(\*) based on LIBSVM, Copyright (c) 2000, Chih-Chung Chang and Chih-Jen Lin

(\*\*) 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