



phenotype prediction from genotype (version 3.4)

I. General information

Patient:	Study Id:
Birth date:	Viral load:
Sample received:	Sample collected:
Sample ID: 48	Predicted subtype: B (100%)
Sample type:	Report date: October 6, 2018
Physician:	Reported by:

II. Substitutions

(relative to the reference strain HXB2)

Protease:	V3I, L10I, S37D, R57K, I62V, L63P, A71T, I72I/M/T, G73S, V77I, I85V, I93L
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	5.163	4.628	48G 90L 84I 54I <u>11V</u> 74T 88N 53F 95C <u>26T</u> 1P 80T <u>34E</u> 47I 97L
IDV	8.294	5.187	54I 82V 88N 46M 29D <u>1P</u> <u>71T</u> 21E <u>65E</u> 84I <u>11V</u> <u>10I</u> <u>30D</u> 90L <u>73S</u>
NFV	4.742	3.1	88N 54I 30D 46M 82V <u>97L</u> 20K <u>68G</u> 90L 36M <u>31T</u> 75V 74T 84I <u>5L</u>
APV	2.889	3.004	54I 76L 50I 84I 46M 32V <u>37D</u> <u>22A</u> <u>63P</u> 1P 47I 13I 82V <u>97L</u> 45K
LPV	2.436	2.704	54I 82V 46M 84I 50I 76L <u>22A</u> <u>7Q</u> <u>63P</u> 24L 20K 25D <u>37D</u> 47I 92Q
TPV	1.319	0.576	<u>69H</u> <u>48G</u> 84I 33L 54I 47I 15I <u>91T</u> 20K <u>73S</u> 90L 82V 74T <u>46M</u> <u>88N</u>
DRV	3.985	3.522	47I 84I 54I 33L 76L 74T 43K 46M 36M <u>37D</u> <u>65E</u> <u>93L</u> 48G <u>72T</u> <u>85V</u>
ATV	5.494	4.633	54I 48G 84I 82V <u>71T</u> 4T 88N 90L <u>7Q</u> <u>73S</u> 46M 36M 20K 24L <u>76L</u>

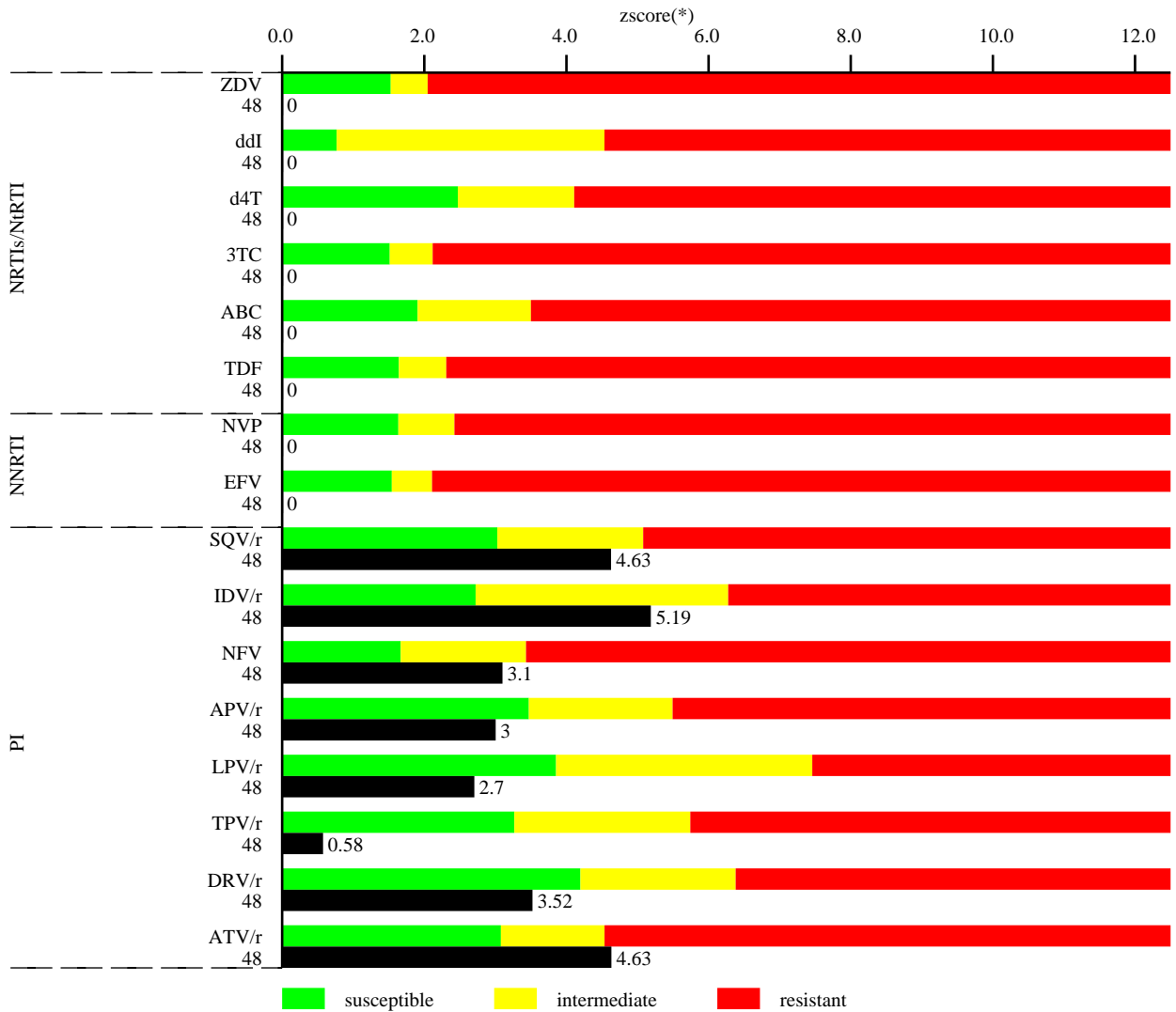
(*) based on LIBSVM, Copyright (c) 2000, Chih-Chung Chang and Chih-Jen Lin

(**) 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:	



NRTIs/NtRTI:

NNRTIs:

PIs:

Previous genotypes:

date

signature