



phenotype prediction from genotype (version 3.4)

I. General information

Patient:	Study Id:
Birth date:	Viral load:
Sample received:	Sample collected:
Sample ID: 15	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, L19I, K20R, E34D, E35D, M36I, S37N, R41K, M46I, I47V, I54M, L63P, A71T, I84V, I85V, L90M, 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	17.445	8.168	48G <u>84V</u> 73G 11V 74T 88N <u>90M</u> 47V 53F 95C 26T 1P 80T 97L 24L
IDV	121.323	12.445	82V 88N <u>90M</u> 29D 1P <u>84V</u> <u>71T</u> 73G 21E 65E <u>46I</u> 11V <u>10I</u> 30D 78G
NFV	55.698	8.901	88N 30D <u>90M</u> <u>84V</u> 82V 97L 73G 68G <u>46I</u> 31T 75V 74T 5L 2Q 1P
APV	125.769	14.945	76L 50I <u>84V</u> <u>54M</u> 32V <u>46I</u> <u>47V</u> 22A <u>63P</u> 1P 13I 82V <u>90M</u> 97L 45K
LPV	89.531	13.137	82V 50I <u>46I</u> <u>84V</u> 76L 22A 7Q <u>63P</u> 24L <u>47V</u> 25D <u>54M</u> 92Q 2Q 48G
TPV	7.992	4.482	69H <u>46I</u> 48G <u>84V</u> 33L <u>90M</u> <u>47V</u> 72I 15I 91T 82V 74T 88N 58Q 13I
DRV	19.28	7.765	<u>47V</u> <u>84V</u> 33L 76L 74T 43K 73G <u>54M</u> 65E 93L 48G <u>85V</u> 15I 7Q 8R
ATV	62.225	12.141	48G 73G <u>84V</u> 82V <u>90M</u> <u>71T</u> 4T 88N 7Q 24L 76L <u>54M</u> 45K 32V <u>41K</u>

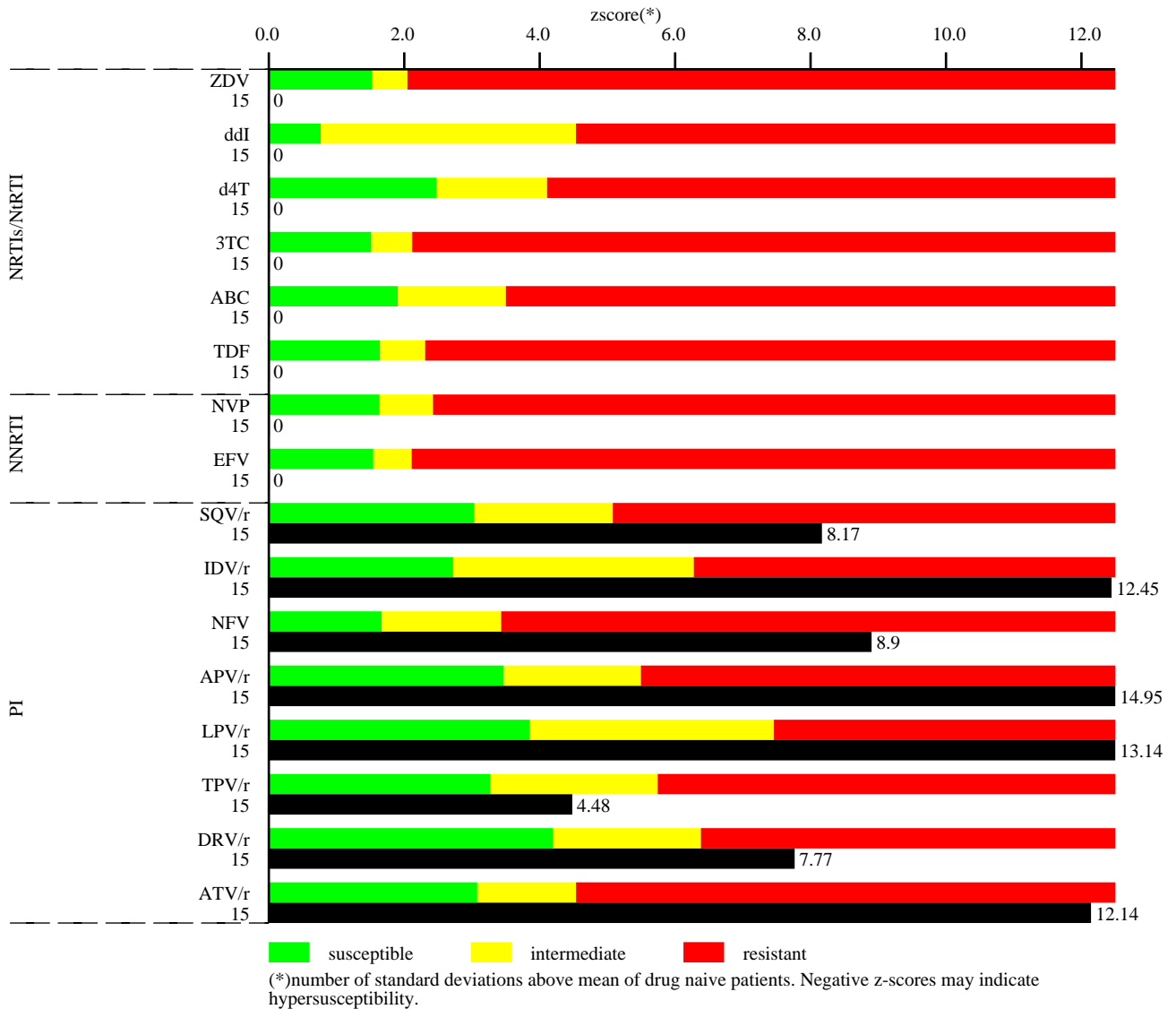
(*) based on LIBSVM, Copyright (c) 2000, Chih-Chung Chang and Chih-Jen Lin

(**) 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