



phenotype prediction from genotype (version 3.4)

I. General information

Patient:	Study Id:
Birth date:	Viral load:
Sample received:	Sample collected:
Sample ID: 2	Predicted subtype: 07_BC (100%)
Sample type:	Report date: October 6, 2018
Physician:	Reported by:

II. Substitutions (relative to the reference strain HXB2)

Protease:	L10I, I13V, G16A, K20K/M, S37N, M46I, I54V, L63P, I66F, C67Y, H69K, A71V, I72F, G73T, I84V, 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	72.095	12.294	48G <u>84V</u> 11V 74T 88N <u>90M</u> 53F 95C 26T <u>73T</u> 80T 34E 47I 97L 24L
IDV	299.658	14.891	82V 88N <u>90M</u> 29D <u>84V</u> 21E 65E <u>46I</u> <u>67Y</u> <u>73T</u> 11V <u>10I</u> 85I 30D 78G
NFV	221.514	12.152	88N 30D <u>90M</u> <u>84V</u> 82V 97L 68G 36M <u>46I</u> 31T 75V 74T 5L 29D 48G
APV	25.91	9.946	76L 50I <u>84V</u> 32V <u>46I</u> 85I 22A <u>63P</u> 47I 82V <u>90M</u> <u>97L</u> 45K <u>10I</u> 21E
LPV	33.129	10.259	82V 50I <u>46I</u> <u>54V</u> <u>84V</u> 76L 22A 7Q <u>63P</u> 24L 25D 47I 92Q 48G 74T
TPV	4.262	3.118	<u>46I</u> <u>48G</u> <u>84V</u> 33L <u>90M</u> 47I 15I 91T <u>71V</u> <u>69K</u> 82V 74T 88N 58Q 19L
DRV	5.29	4.285	47I <u>84V</u> 33L 76L 74T 43K 36M <u>65E</u> <u>93L</u> 48G 15I 7Q 8R 32V
ATV	69.993	12.505	48G <u>84V</u> 82V <u>90M</u> <u>73T</u> 4T 88N 7Q 36M 24L 76L 45K 32V <u>93L</u> <u>46I</u>

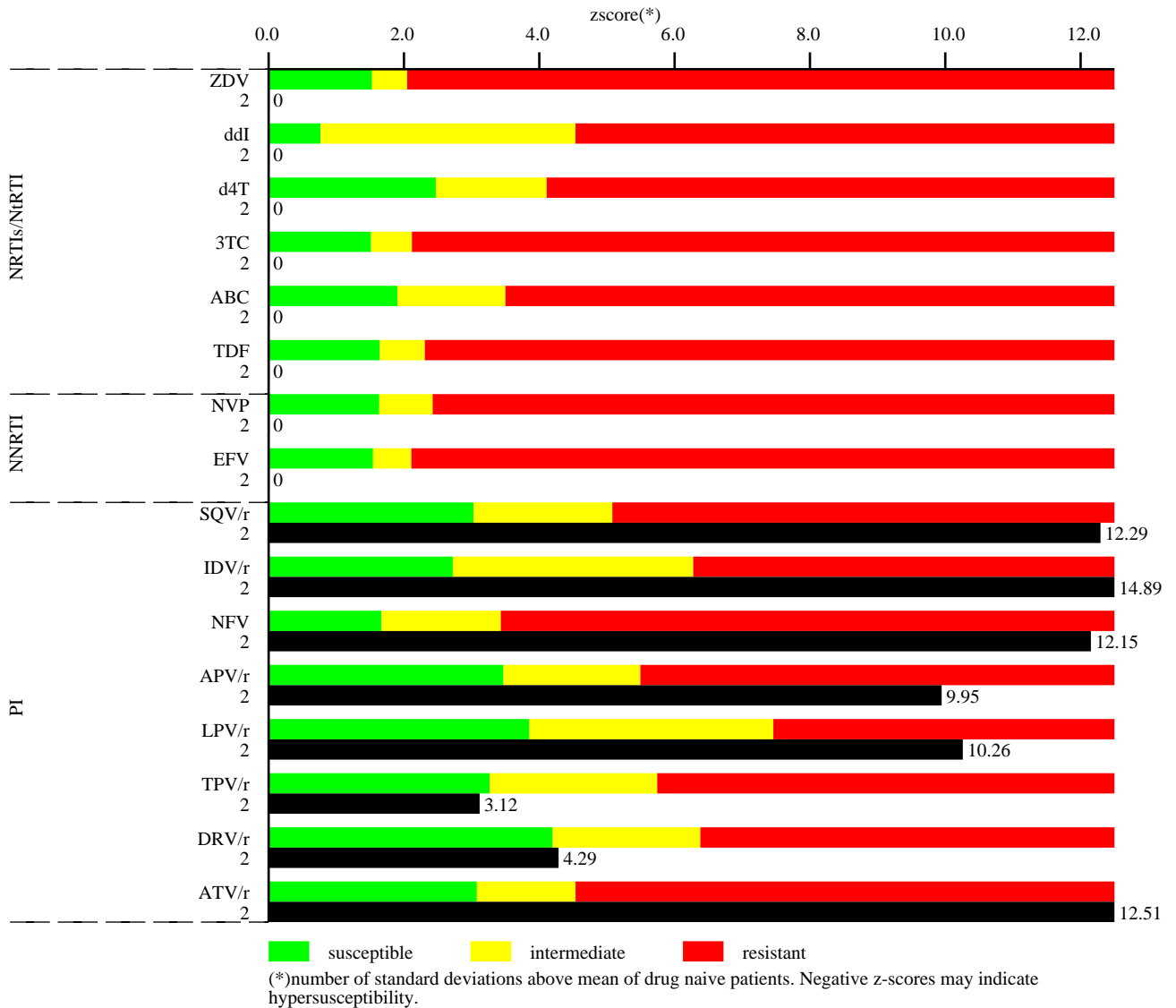
(*) based on LIBSVM, Copyright (c) 2000, Chih-Chung Chang and Chih-Jen Lin

(**) 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