



## phenotype prediction from genotype (version 3.4)

### I. General information

Patient:	Study Id:
Birth date:	Viral load:
Sample received:	Sample collected:
Sample ID: 14	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, V11I, I13I/V, K14R, K20V, S37N, L63P, A71I, G73S, P79A, I84V, L89V, 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	33.397	10.056	48G <u>84V</u> 54I 74T 88N <u>90M</u> 53F 95C 26T <u>11I</u> 1P 80T 34E 47I 97L
IDV	16.233	7.004	54I 82V 88N 46M <u>90M</u> 29D 1P <u>84V</u> 21E 65E <u>20V</u> <u>10I</u> 85I 30D <u>73S</u>
NFV	34.901	7.8	88N 54I 30D <u>90M</u> 46M <u>84V</u> 82V 97L 68G 36M 31T 75V 74T 5L 2Q
APV	12.686	7.686	54I 76L 50I <u>84V</u> 46M 32V <u>89V</u> 85I 22A <u>63P</u> 1P 47I 82V <u>90M</u> 97L
LPV	10.553	6.948	54I 82V 46M 50I <u>84V</u> 76L <u>89V</u> 22A 7Q <u>63P</u> 24L 25D 47I 92Q 2Q
TPV	5.287	3.586	69H 48G <u>84V</u> 33L <u>90M</u> 54I 47I <u>14R</u> 72I 15I 91T <u>73S</u> 82V 74T 46M
DRV	5.695	4.483	47I <u>84V</u> 54I 33L 76L 74T 43K 46M 36M 65E <u>14R</u> <u>93L</u> 48G 15I 7Q
ATV	20.118	8.648	54I 48G <u>84V</u> 82V <u>90M</u> 4T 88N 7Q <u>73S</u> 46M 36M 24L 76L 45K 32V

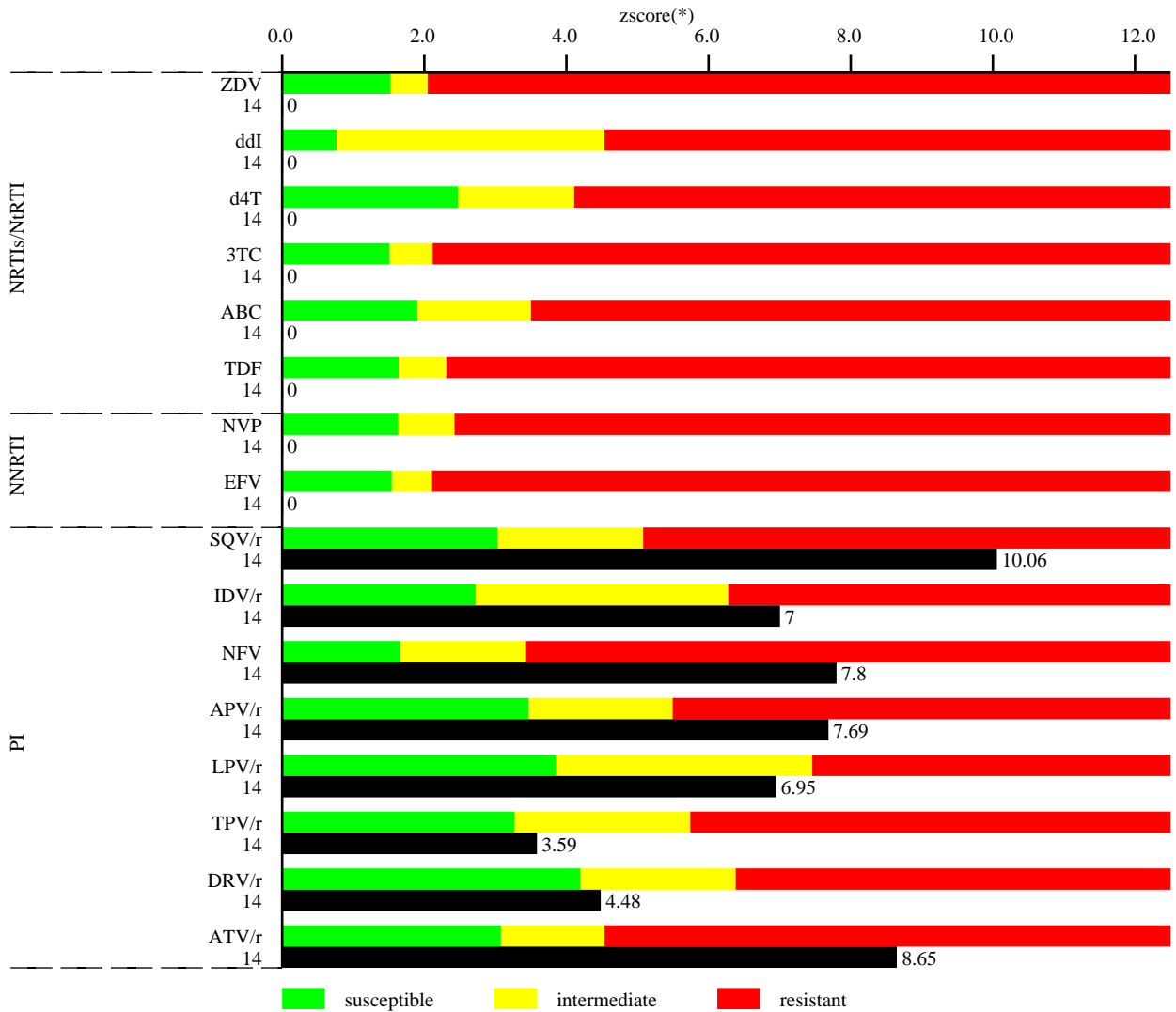
(\*) based on LIBSVM, Copyright (c) 2000, Chih-Chung Chang and Chih-Jen Lin

(\*\*) 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:	



NRTIs/NtRTI:

NNRTIs:

PIs:

Previous genotypes:

date

signature