

Table S2. Performance of genotypic algorithms modified to include the “440 rule”.

Genotypic algorithm	C-HIV			D-HIV			AE-HIV		
	% Sens	% Spec	AUROC	% Sens	% Spec	AUROC	% Sens	% Spec	AUROC
11/25 rule	41.2 (+14.7)	99 (-19)	0.70 (-0.02; p=0.39)	71.4 (+13.2)	71.7 (-22.6)	0.72 (-0.05; p=0.30)	65.6 (+6.3)	99.1 (-2.8)	0.82 (0.02; p=0.41)
G2P FPR 1%	61.8 (+2.9)	99.5 (-19.5)	0.81 (-0.08; p=0.12)	38.5 (+47.2)	98.1 (-45.3)	0.68 (0.01; p=0.46)	81.3 (+3.1)	99.1 (-2.8)	0.90 (0.001; p=0.49)
G2P FPR 2.5%	73.5 (0)	99.5 (-19.5)	0.87 (-0.1; p=0.07)	69.2 (+19.3)	88.7 (-35.9)	0.79 (-0.08; p=0.17)	93.8 (0)	92.5 (-1.8)	0.93 (-0.01; p=0.43)
G2P FPR 5%	79.4 (0)	97.9 (-19.4)	0.89 (-0.1; p=0.06)	80.8 (+15.4)	69.8 (-24.5)	0.75 (-0.05; p=0.30)	93.8 (0)	80.4 (-1)	0.87 (-0.01; p=0.47)
G2P FPR 5.75%	82.4 (0)	97.9 (-19.4)	0.90 (-0.1; p=0.05)	80.8 (+15.4)	67.9 (-24.5)	0.74 (-0.05; p=0.61)	93.8 (0)	77.6 (-1)	0.86 (-0.01; p=0.47)
G2P FPR 10%	82.4 (0)	95.4 (-19.5)	0.89 (-0.1; p=0.06)	92.3 (+3.9)	58.5 (-18.9)	0.75 (-0.08; p=0.20)	96.9 (0)	56.1 (0)	0.77 (0)
G2P FPR 15%	85.3 (0)	93.3 (-18.9)	0.89 (-0.09; p=0.06)	92.3 (+3.9)	56.6 (-17)	0.74 (-0.07; p=0.23)	96.9 (0)	48.6 (0)	0.73 (0)
G2P FPR 20%	85.3 (0)	89.2 (-18.9)	0.87 (-0.09; p=0.07)	92.3 (+3.9)	49.1 (-17)	0.71 (-0.07; p=0.24)	96.9 (0)	40.2 (0)	0.69 (0; p=0.5)
WebPSSM_{X4R5}	-	-	-	80.8 (+15.4)	62.3 (-18.9)	0.72 (-0.02; p=0.42)	93.8 (0)	83.2 (-1)	0.89 (-0.01; p=0.47)
WebPSSM_{SI/NSI}	-	-	-	71.4 (+20.9)	75.5 (-26.4)	0.73 (-0.03; p=0.38)	93.8 (0)	84.1 (-0.9)	0.89 (-0.004; p=0.47)
WebPSSM_{SI/NSI-C}	79.4 (0)	93.3 (-16.4)	0.86 (-0.08; p=0.10)	-	-	-	-	-	-
CoRSeq_{v3-c}	100 (0)	76.9 (-0.5)	0.88 (-0.01; p=0.48)	-	-	-	-	-	-