

Table S15: Classification of YRI data with classifier trained to differentiate sweeps and neutrality, $\gamma = 1$, Level 1 chosen through cross validation (see *Training the models*), Daubechies' least asymmetric wavelets

Chromosome	Neutral	Sweep	$\mathbb{P}[\text{Sweep}] > 0.7$
1	97.1	2.9	2.0
2	97.8	2.2	1.4
3	98.2	1.8	1.1
4	96.6	3.4	2.0
5	97.2	2.8	1.7
6	95.2	4.8	3.4
7	96.1	3.9	2.5
8	97.5	2.5	1.7
9	97.2	2.8	1.9
10	96.9	3.1	1.9
11	96.7	3.3	1.8
12	97.4	2.6	1.9
13	98.2	1.8	0.9
14	97.2	2.8	1.3
15	97.9	2.1	1.3
16	95.8	4.2	3.0
17	97.7	2.3	1.5
18	98.2	1.8	1.1
19	94.3	5.7	3.8
20	97.5	2.5	2.0
21	97.6	2.4	1.2
22	98.5	1.5	1.1