

Table S19: Classification of YRI data with classifier trained to differentiate adaptive introgression, sweeps, and neutrality,  $\gamma = 1$ , Level 1 chosen through cross validation (see *Training the models*), Daubechies' least asymmetric wavelets, including two-dimensional statistics

Chromosome	Neutral	Introgression sweep	Sweep	$\mathbb{P}[\text{Introgression sweep}] > 0.6$	$\mathbb{P}[\text{Sweep}] > 0.6$
1	95.8	0.5	3.7	0.0	0.8
2	96.9	0.3	2.8	0.0	0.3
3	97.4	0.4	2.2	0.1	0.8
4	96.2	0.9	2.9	0.1	0.4
5	96.7	0.3	2.9	0.0	0.7
6	95.6	2.3	2.1	1.1	0.4
7	96.0	0.9	3.0	0.1	0.5
8	96.4	0.8	2.8	0.1	0.7
9	97.3	0.5	2.2	0.0	0.6
10	97.7	0.9	1.4	0.0	0.4
11	96.7	0.8	2.5	0.1	0.3
12	96.1	0.7	3.2	0.0	0.7
13	98.1	0.7	1.3	0.2	0.3
14	97.8	0.3	1.9	0.0	0.6
15	97.0	0.7	2.3	0.0	0.8
16	96.3	1.1	2.5	0.2	0.5
17	97.8	0.8	1.4	0.2	0.1
18	97.8	0.4	1.7	0.0	0.4
19	94.7	2.0	3.3	0.2	0.7
20	97.2	1.1	1.7	0.0	0.4
21	97.9	0.9	1.2	0.1	0.1
22	98.7	1.0	0.4	0.3	0.0