

Table S14: Classification of CEU 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	88.0	12.0	6.9
2	85.8	14.2	7.8
3	88.8	11.2	6.3
4	86.6	13.4	8.5
5	90.2	9.8	5.1
6	89.8	10.2	5.3
7	87.5	12.5	7.0
8	85.7	14.3	7.7
9	83.9	16.1	8.9
10	87.2	12.8	6.9
11	88.4	11.6	7.2
12	86.2	13.8	7.9
13	91.6	8.4	4.2
14	86.4	13.6	7.7
15	79.4	20.6	11.8
16	80.6	19.4	11.0
17	86.4	13.6	7.5
18	85.1	14.9	8.7
19	79.4	20.6	10.7
20	82.8	17.2	10.0
21	89.4	10.6	6.2
22	84.4	15.6	6.5