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 | $P$|Introgression sweep| > 0.6 | $P$|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               |      |