

## Description of Additional Supplementary Files

**File name:** Supplemental Data 1

**Description:** The observed alleles in the study population and their relative frequencies.

**File name:** Supplemental Data 2

**Description:** The observed eplets in the study population and their relative frequencies.

**File name:** Supplemental Data 3

**Description:** Cumulative eplet mismatch scores in the prospective eplet matching simulations.

Scores are averaged over a set of 10 repeated simulations.