**Supplementary Material**

Table S1. Characteristics of microsatellite markers used, including their chromosomal locations, fragment sizes, and number of alleles observed in overall samples.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Marker | Chromosome1  | Expected Allele range (bp)2 | Observe fragment size (bp)3 | Observed number of alleles |
| ADL0268 | 1 | 102-116 | 101-112 | 6 |
| MCW0111  | 1 | 96-120 | 91-118 | 10 |
| MCW0183  | 7 | 296-326 | 288-322 | 10 |
| MCW0206  | 2 | 221-249 | 225-249 | 7 |
| MCW0222 | 3 | 220-226 | 300-318 | 7 |
| MCW0034  | 2 | 212-246 | 217-246 | 12 |
| MCW0037   | 3 | 154-160 | 175-187 | 8 |
| MCW0067  | 10 | 176-186 | 175-187 | 7 |
| MCW0069  | 26 | 158-176 | 158-177 | 10 |
| MCW0081 | 5 | 112-135 | 114-135 | 7 |
| LEI0258 | 16 | - | 194-550 | 46 |
| MCW0371  | 16 | - | 198-207 | 10 |

1 From the FAO (2011); 2 Expected allele size range from FAO (2011); 3Detected allele size range (bp) in eight chicken populations.

**Supplementary Figures**



Bomet (BM)

Taita-Taveta (TT)

West Pokot (WP) (WP)

Kakamega (KK)

Turkana (TK)

Lamu (LM)

Narok (NR)

Siaya (BN)

Figure S1. Map of Kenya showing locations where blood samples were collected