Figure S1  Scatterplot showing correlation of the distribution of values of pooled Contrast ratios for a pool of DNA from 20 mosquitoes, compared with the average values across the 20 DNA samples from the individual mosquitoes, with each point corresponding to one feature of the 400K SNP array, for a pilot assay with 20 *An. gambiae* s.s. mosquitoes from Mali (Neafsey *et al.* 2010).
Figure S2  Focused profile of differentiation between M and S pools from Guinea Bissau on chromosome 2R (A), 3R (B), and X (C). Black dots indicate Contrast differences between the pools for individual SNP assays. Red dots indicate mean Contrast differences for windows of 50 adjacent SNPs.
Figure S3  Test for genomic differentiation between pooled DNA from samples of 20 homozygous M form and 20 homozygous S form *Anopheles gambiae* s.s. from each of three sites in this study: (A) Njabakunda in The Gambia, (B) Sedhiou in Senegal, (C) Antula in Guinea Bissau, using data from the 66K sub-set of SNPs that had previously shown Hardy-Weinberg equilibrium within molecular forms in Mali (Neafsey et al. 2010). The vertical axis represents divergence measured as the absolute value of mean Contrast difference for stepping windows of 50 assays (this has a modal background of approximately 0.25 which is due to noise rather than a genome-wide divergence signal). The horizontal blue lines indicate the Bonferroni-corrected threshold for statistical significance obtained via bootstrapping. For comparison, panel (D) shows differentiation between similarly pooled DNA from M and S forms in Mali (Neafsey et al. 2010).
**Figure S4** Comparison of M and S homozygous genotypes with heterozygous genotypes from two study sites: (A) Sedhiou M homozygotes vs. M/S heterozygotes, (B) Sedhiou S homozygotes vs. M/S heterozygotes, (C) Antula M homozygotes vs. M/S heterozygotes, (D) Antula S homozygotes vs. M/S heterozygotes.
Table S1  Spearman’s rank correlation coefficients between pairwise pool comparisons of mean Contrast difference in the X pericentromeric region (Mb 15 – 24.2).

Table S1 is available for download at http://www.genetics.org/lookup/suppl/doi:10.1534/genetics.112.148718/-/DC1.