**Figure S10** Analysis of the allele count data from dataset 10. (A) Kullback–Leibler divergence (KLD) measure between the posterior of $\delta_j$ and its centering distribution for all simulated loci. Loci under positive selection are depicted in red, loci under balancing selection in blue, and neutral markers are in grey. (B) $F_{ST}$ as a function of the KLD measure for all loci. (C) False positive (neutral loci detected as outliers) and false negative (selected loci not detected as outliers) rates as a function of the KLD measure. (D) Relationship between the Bayes factor $\log_{10}(BF)$ from the BAYESCAN analysis of dataset 10 and the KLD. The horizontal lines in (A) and the vertical lines in (B–D) indicate the KLD thresholds corresponding to the 95%-,$\ 99\%$- and the 99.9%-quantile of the of the KLD distribution from the pod analysis of dataset 10. In (D), the horizontal lines indicate the $\log_{10}(BF) = 1, \log_{10}(BF) = 1.5$ and $\log_{10}(BF) = 2$ thresholds, which correspond to “strong”, “very strong” and “decisive” support, respectively, following Jeffreys’ (1961) scale of evidence.