



Figure S1 - Observed variance (log-scale) along the principal components of the genetic variance/covariance matrix (black line). The solid red line corresponds to the mean error variance along each principal component and the shaded area around it corresponds to its 95% confidence interval. Whenever the observed eigenvalue is larger than the upper limit of the error variance, we conclude that the principal component in question has significant additive genetic variation. The black arrow indicates the first PC for which there is overlap between the eigenvalues of G and noise.