**S2 Note.** Because the *END3*BY- and *END3*3S-dependent genotypes (**Fig. 4A**) require five and six alleles, respectively, the latter genotype is expected to only occur half as often. In practice, the bias towards the *END3*BY-dependent genotype is typically even higher. This is because a locus that confers a selective advantage during random spore isolation in the BYx3S cross is closely linked to *END3*, with the BY allele of this locus conferring a benefit (see Taylor and Ehrenreich. 2014. PLOS Genetics; Taylor and Ehrenreich. 2015. PLOS Genetics).