



**Figure S2** Strategy for whole genome-sequencing of pooled DNA from mutant pro44. Mutant pro44 was crossed against the spore color mutant r2. Single spore isolates arising from both black and brown-red ascospores were screened for fertility and color, and 40 spores with the phenotype sterile/black spores were chosen to represent mutant pro44. The pooled DNA from these 40 spore isolates was used for sequencing.