



Figure S4 Schematic representation on the difference and similarity between clonal F₁ and double cross. In clonal F₁, the cross was made between two heterozygous parents. In double cross, the four parents were existing homozygous inbred lines. Two F₁ hybrids were firstly made from the four parents, and then the double cross was derived from the two F₁ hybrids. Solid arrows represent the derivative relationship in practice. In clonal F₁, haploids of the two parents can be built from the genetic analysis in its progenies, after which four virtual homozygous inbred lines may be determined. Dashed arrows stand for procedure where the four virtual lines were derived.