

= Population used for mapping



b





Supplementary Figure 2. QTL analysis in populations 18SC11 and 18SC12. a. LOD profile of QTL analysis for self-compatibility in population 18SC11. Green line shows LOD score. The 1-LOD and 2-LOD intervals are highlighted between the genetic map and the LOD profile. b. LOD profile of QTL analysis for self-compatibility in population 18SC12. Green line shows LOD score. The 1-LOD and 2-LOD intervals are highlighted between the genetic map and the LOD profile.

а

Chr12



Supplementary Figure 3. Frequency of genotypes observed in the F2 population 19SC1 (n=160). The proportion of plants homozygous for the HP66 haplotype are shown in green. The proportion of plants heterozygous for the HP66 and D16 haplotypes are shown in orange. The proportion of plants homozygous for the D16 haplotype are shown in red.





AC246240.4:71771-72171 Solanu

CP023757.1:24700190-24700590_Solanum_lycopersicum_cultivar_l-3_chi HG975513.1:24700192-24700592_Solanum_lycopersicum_chromosome_

CP023768.1:2305763-2306180 Solanum lycopersicum cultivar I-3 chromosome 12

me ch01. co

ne ch12, complet



Supplementary Figure 4. Analysis of the 533 bp insertion in the Sli promoter. a. Phylogenetic tree of sequences similar to the 533 bp insertion including similar sequences in Solanum lycopersicum. Interestingly, one S. tuberosum sequence (*) is grouped together with the S. pennellii and S. lycopersicum sequences (**). b. Dot-plot analysis of the 533 bp insertion showing the presence of miniature inverted repeats. c. Alignment of the 533 bp insertion with the highest score BLAST hit on the pMITE database showing high identity between the insertion and a MITE family DTA_Sot42 TE from S. tuberosum.

Query: 481 gcctaaggcatatgcctaatttttataagcattgagccggcactg 525 Sbjct: 478 gcctaaggcatatgcctaattttataagcattcagccggtactg 522