























**Fig S1.** Physical positions of SNP markers across the tomato chromosomes (Chr00 – Chr12) except ch06 using R package. The SNP markers were generated using the next-

generation sequencing technologies and mapped on the reference genome of tomato SL3.0 version, (A) the double-digest restriction site–associated DNA sequencing (ddRAD-Seq), (B) the whole-genome shotgun resequencing (WGRS) approaches.