**Supplementary Tables Legends**

**Supplementary Table 1:** Gene Ontology (GO) enrichment analysis of *SlHsp70* genes to predict their function specific to cell organelles and metabolic pathways.

**Supplementary Table 2:** RNA-seq analysis to construct heat map in order to reveal expression of each member of *SlHsp70* gene family in different tissues of *S. lycopercicum*.

**Supplementary Table 3:** Primers used to investigate expression of each member of *SlHsp70* family genes in different tissues of *S. lycopercicum* *via* qPCR analysis.

**Supplementary Table 4:** Gene synteny analysis to reveal distribution of all members of *SlHsp70* gene family on different chromosomes of *S. lycopercicum*.

**Supplementary Table 5:** Clusters analysis to predict functional domains in *SlHsp70* family genes.

**Supplementary Table 6:** Prediction of SlHSP70 protein structural analysis based on functional domains.

**Supplementary Table 7:** Protein-protein interaction network construction *via* STRING proteome database.

**Supplementary Table 8:** Prediction of selected 5 SlHSP70 proteins function analysis based on functional domains.