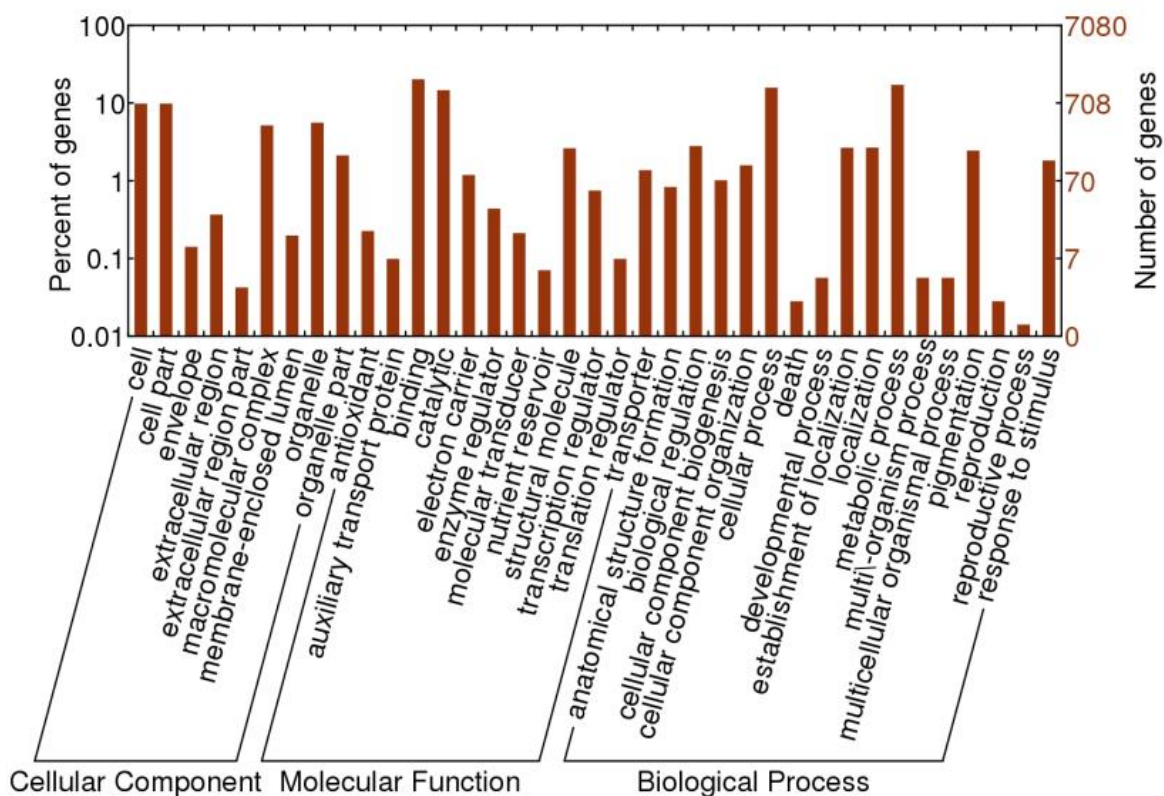


Supplementary Data

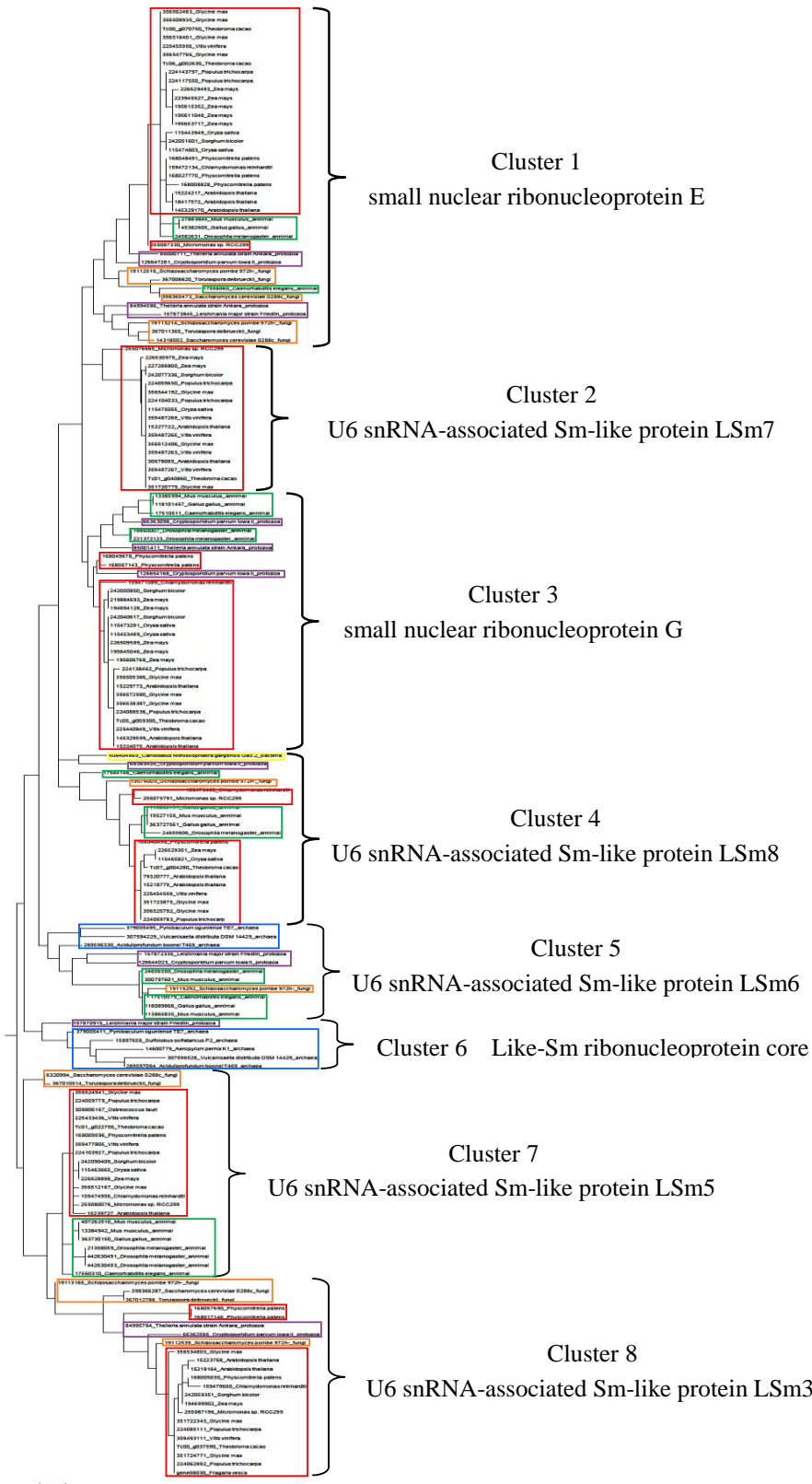
A systematic bioinformatics analysis of small proteins in plants

Xinmiao Jia, Jun Yu, Jiayan Wu*, Jingfa Xiao*

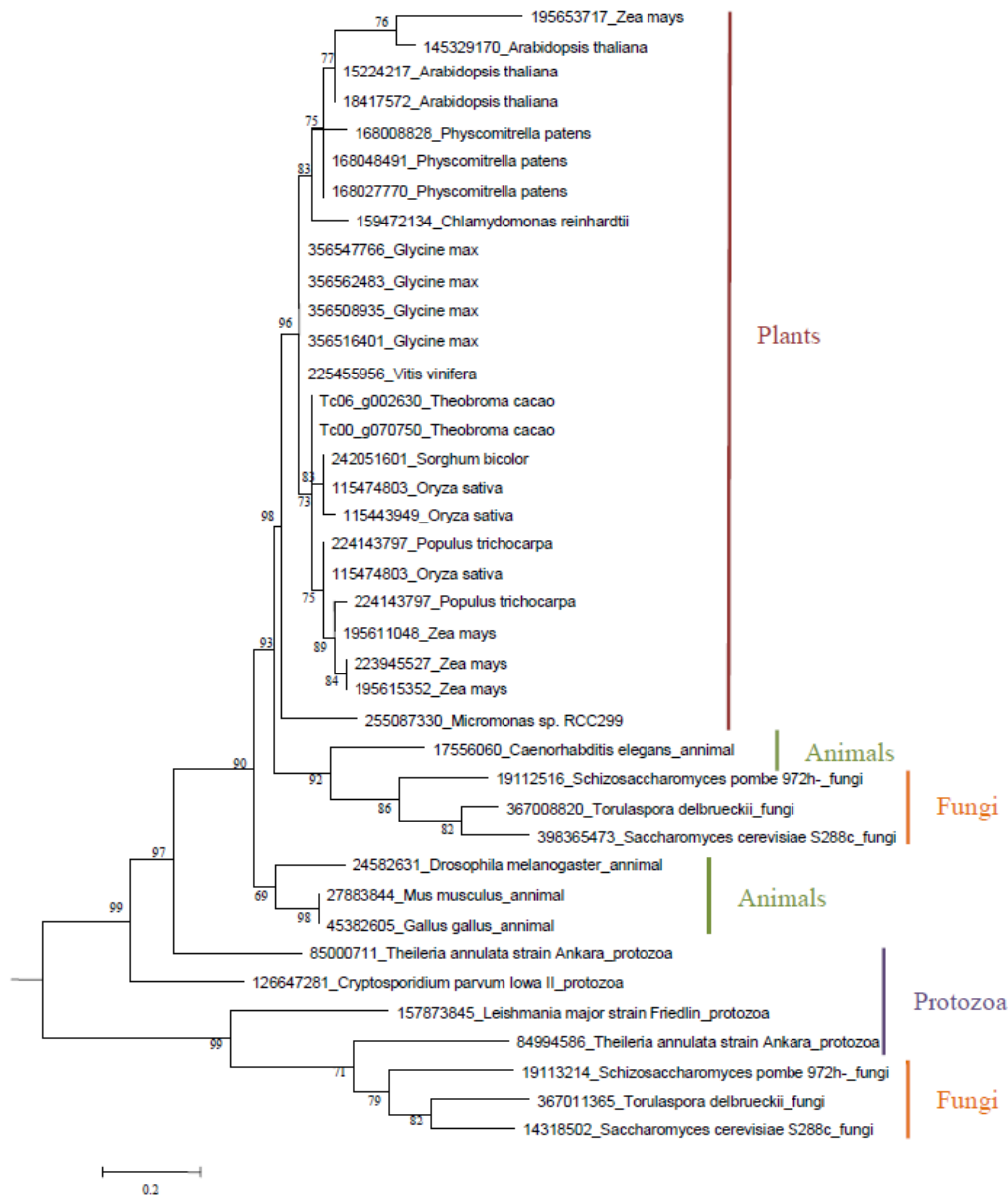
Supplementary Figs



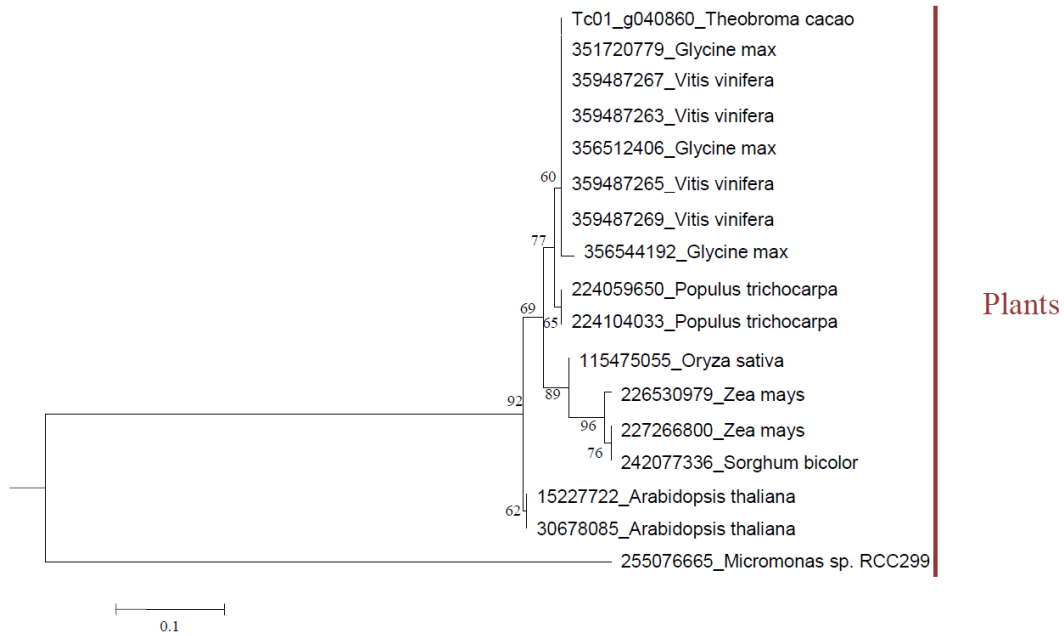
Supplementary Fig1. GO function classification of species specific SPs.



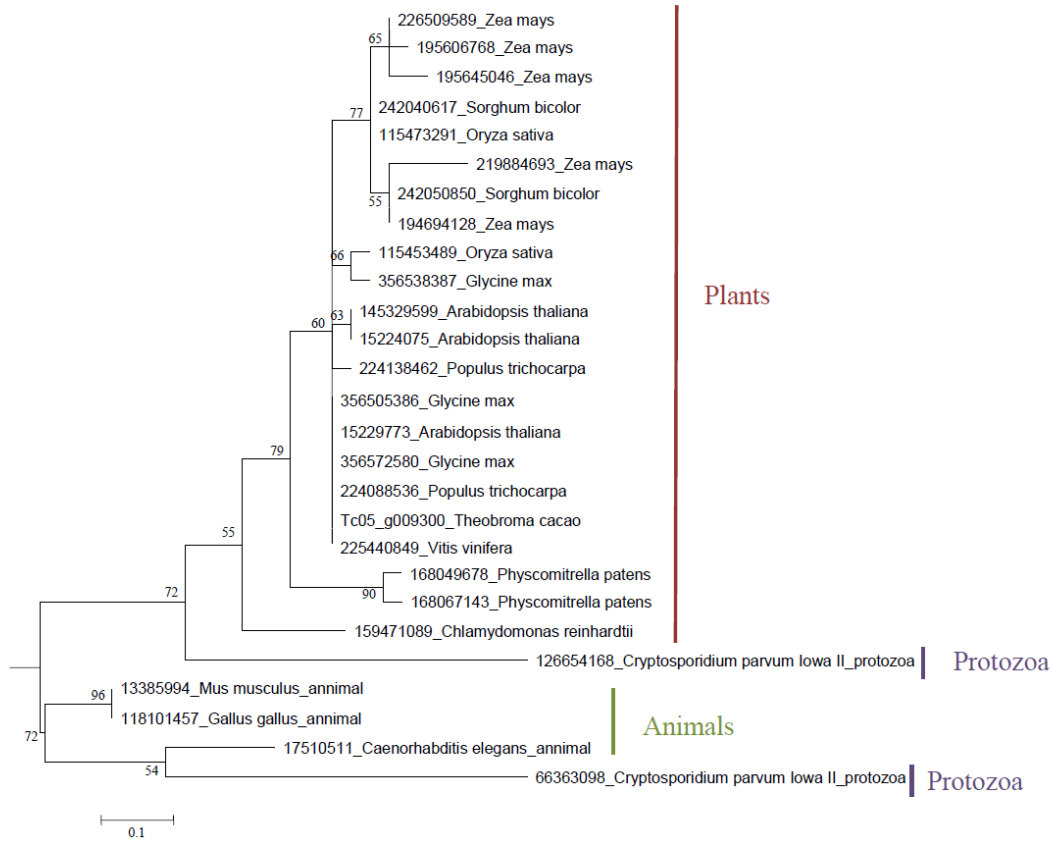
Supplementary Fig2. Phylogenetic analysis of small nuclear ribonucleoproteins. Red box indicate the proteins are in plants. Green, orange, purple, yellow and blue indicate the proteins are in animals, fungi, protozoa, bacteria and archaea, respectively.



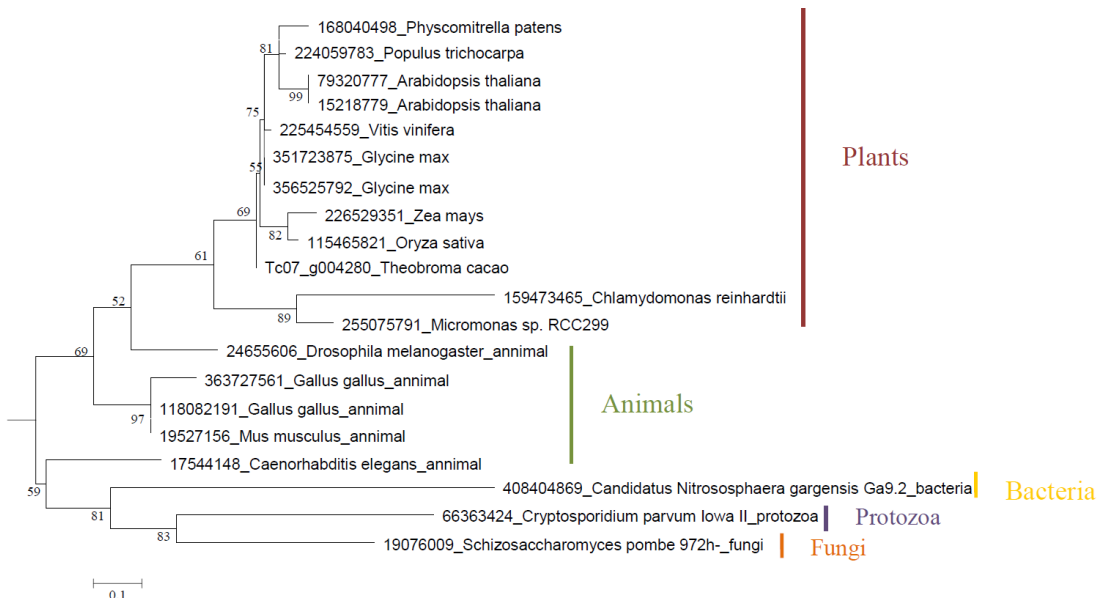
Supplementary Fig3. Phylogeny of small nuclear ribonucleoprotein E. Each small nuclear ribonucleoprotein E is indicated by GI number in NCBI and its genus except for *Theobroma cacao* which is indicated by its own ID.



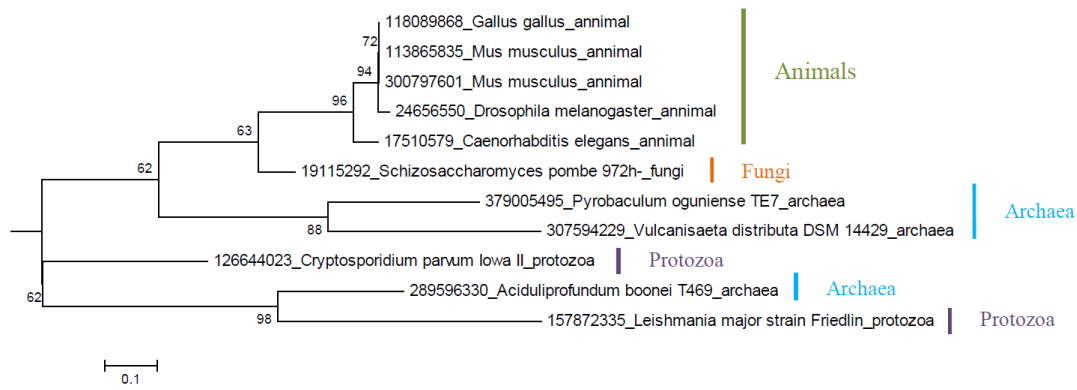
Supplementary Fig 4. Phylogeny of U6 snRNA-associated Sm-like protein LSm7. Each U6 snRNA-associated Sm-like protein LSm7 is indicated by GI number in NCBI and its genus except for *Theobroma cacao* which is indicated by its own ID.



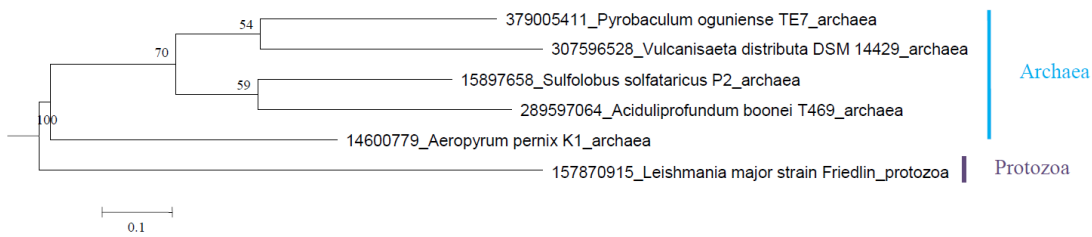
Supplementary Fig5. Phylogeny of small nuclear ribonucleoprotein G. Each small nuclear ribonucleoprotein G is indicated by GI number in NCBI and its genus except for *Theobroma cacao* which is indicated by its own ID.



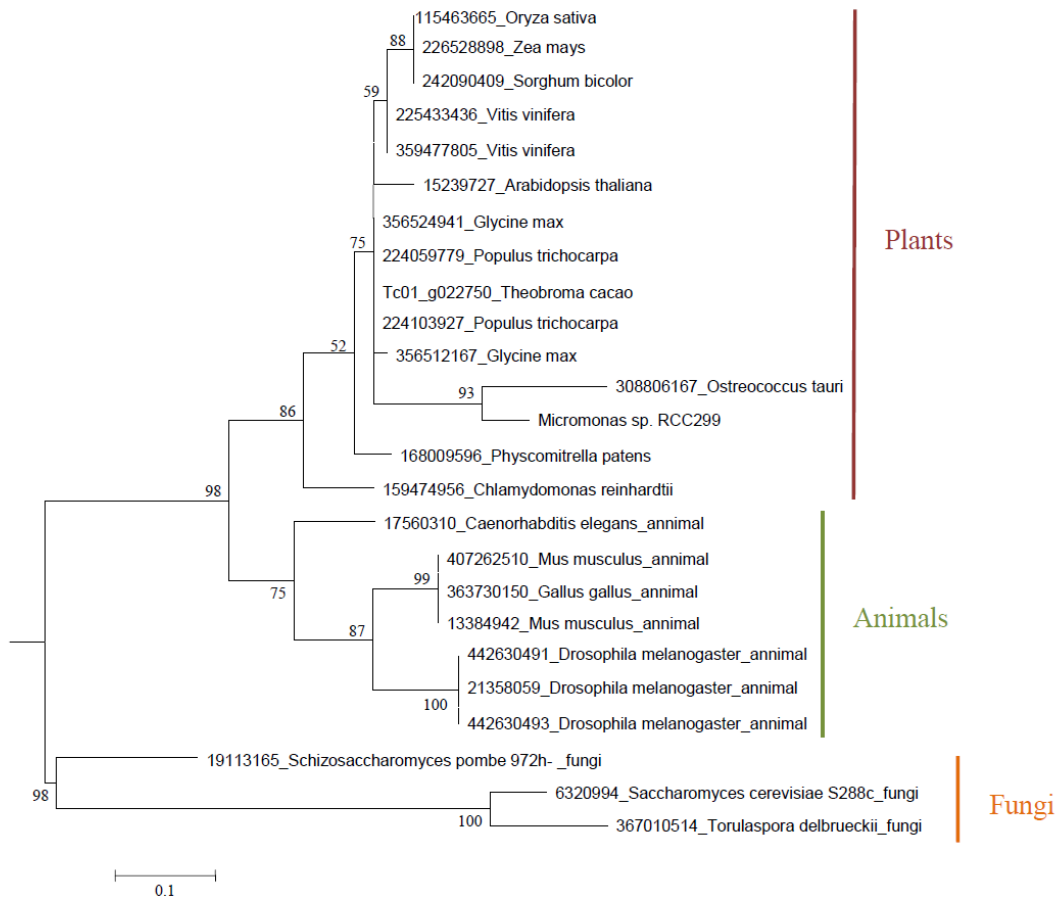
Supplementary Fig6. Phylogeny of U6 snRNA-associated Sm-like protein LSm8. Each U6 snRNA-associated Sm-like protein LSm8 is indicated by GI number in NCBI and its genus except for *Theobroma cacao* which is indicated by its own ID.



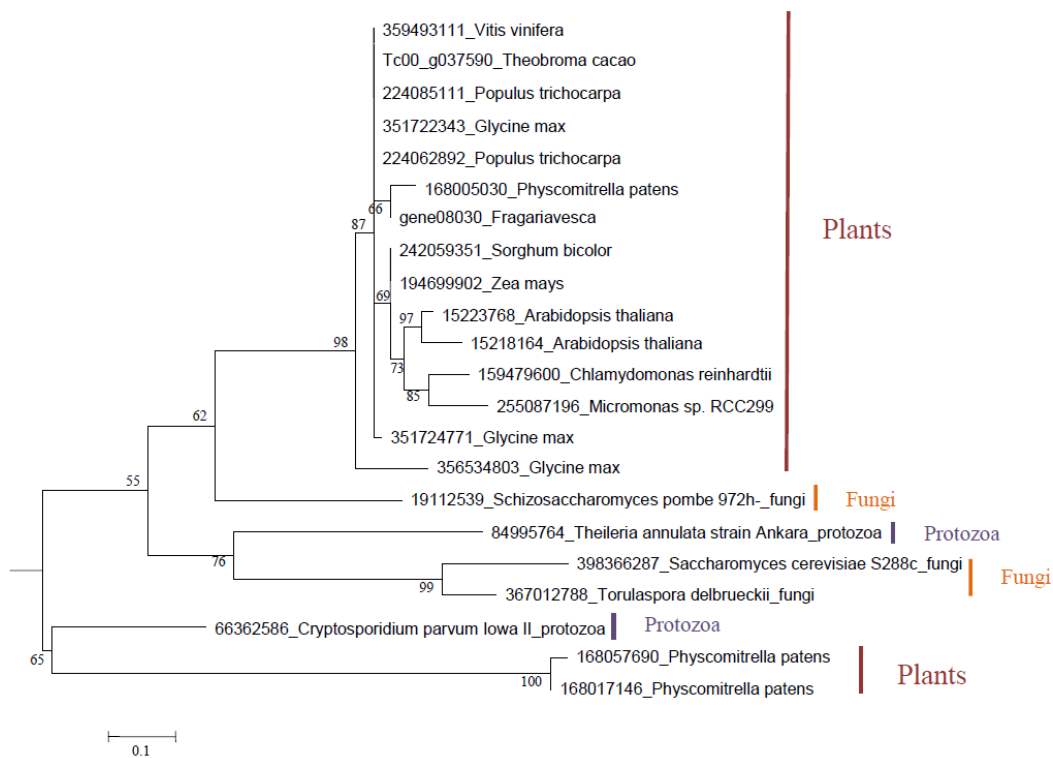
Supplementary Fig7. Phylogeny of U6 snRNA-associated Sm-like protein LSm6. Each U6 snRNA-associated Sm-like protein LSm6 is indicated by GI number in NCBI and its genus.



Supplementary Fig8. Phylogeny of Like-Sm ribonucleoprotein core. Each Like-Sm ribonucleoprotein core is indicated by GI number in NCBI and its genus.



Supplementary Fig9. Phylogeny of U6 snRNA-associated Sm-like protein LSM5. Each U6 snRNA-associated Sm-like protein LSM5 is indicated by GI number in NCBI and its genus except for *Theobroma cacao* which is indicated by its own ID.



Supplementary Fig10. Phylogeny of U6 snRNA-associated Sm-like protein LSm3. Each U6 snRNA-associated Sm-like protein LSm3 is indicated by GI number in NCBI and its genus except for *Theobroma cacao* and *Fragaria vesca* which are indicated by their own ID.