

Supplementary Information

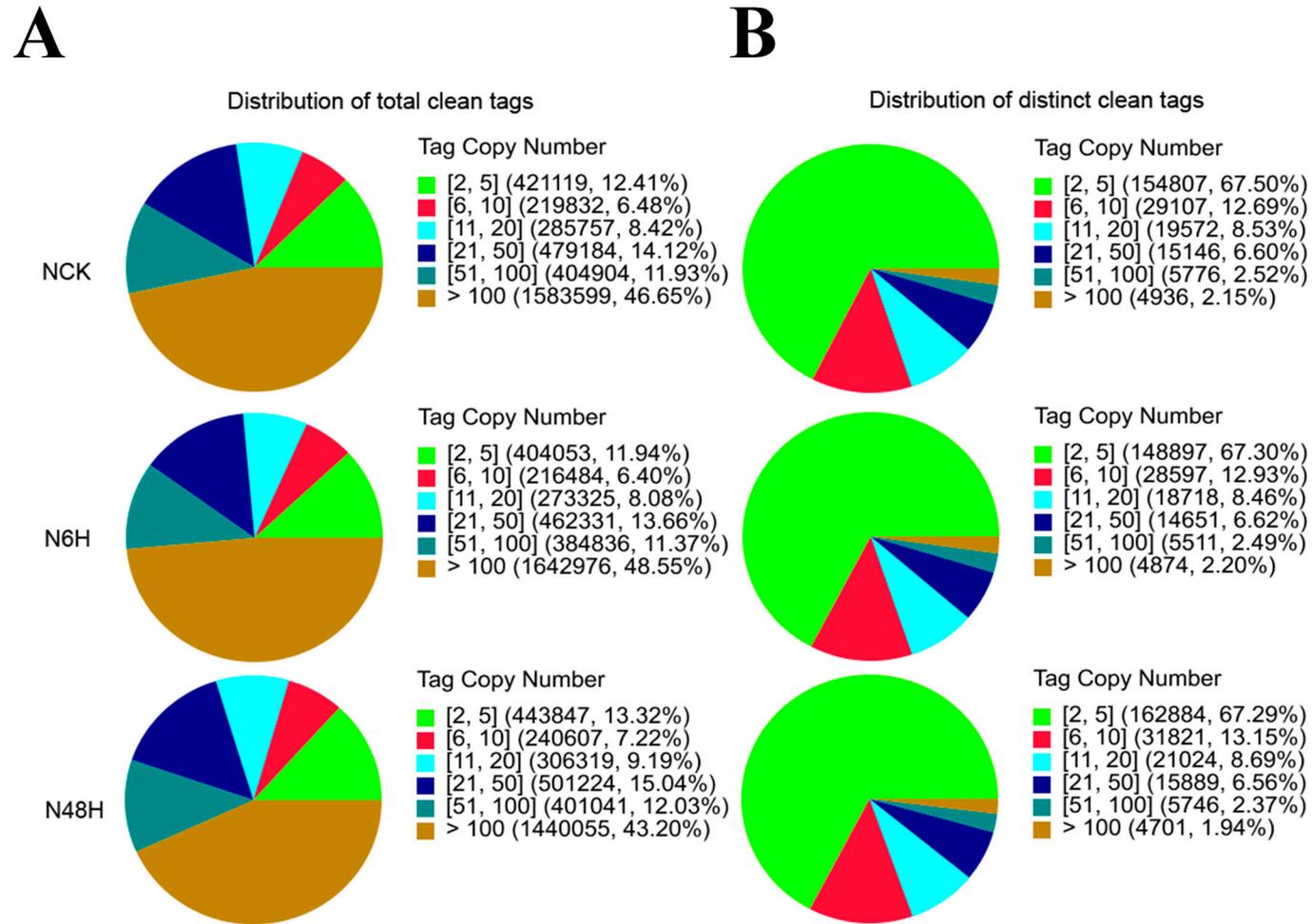


Figure S1. Distribution of total (A) and distinct clean tags (B) over different tag-abundance categories in three DGE libraries (NCK, N6H and N48H).

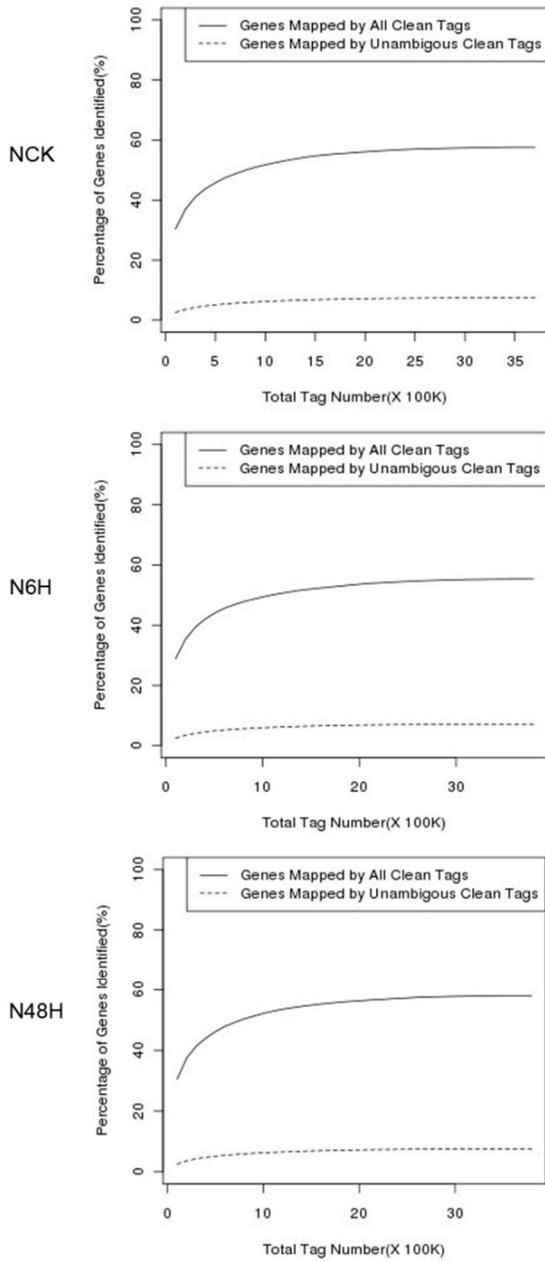
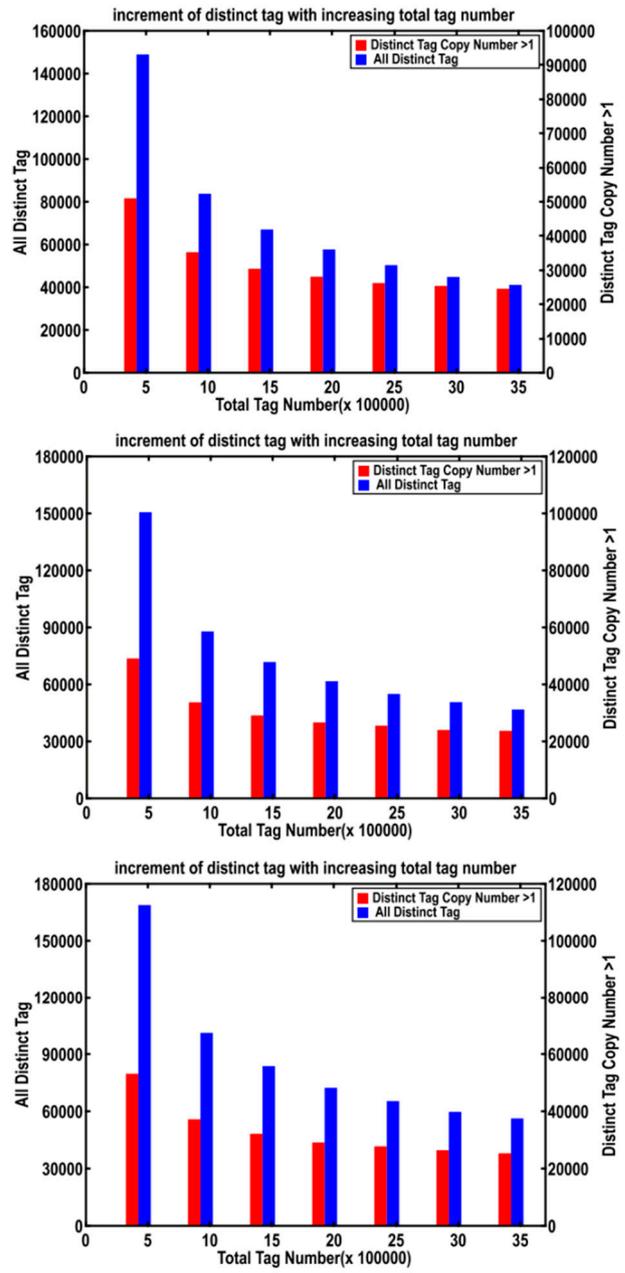
A**B**

Figure S2. Saturation of three DGE libraries (NCK, N6H and N48H).

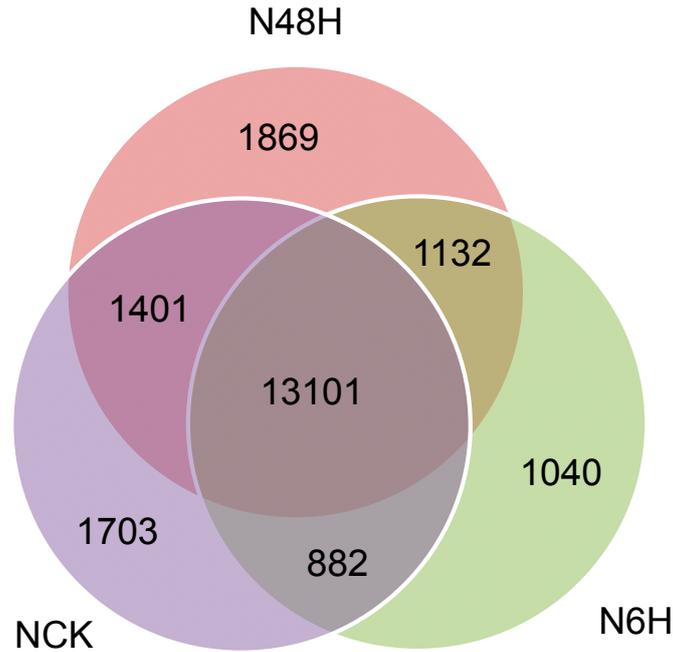


Figure S3. Venn diagram of all expressed genes from three DGE libraries (NCK, N6H and N48H).

Time-course	0 h	6 h	48 h
	G1 group	G2 group	G3 group
	NAC- ANAC055 (2) MYB- CpMYB10, MYB60 bZIP- bZIP1 ERF- DREB2A (4), DREB3, DREB1B/CBF1, CBF4 (3), WIPK (3) NtERD10C RD29A and RD29B GRF6 ZPT2-1	MYB- MYB60 ERF- CBF4, GmERF3 ABF1 NCED1 GRF6	NAC- ANAC055, ANAC072 (4) MYB- MYB60 (2) APX2 FAD3 (2) GRF6 (2) HSFA2 NtERD10B (3) SRK2E/OST1/SnRK2.6 (2) PP2Ac-1 (2) RD22

Figure S4. Differentially expressed drought responsive genes (DRGs) showing expression gradients along time-course. The number in bracket represents the number of genes which have the similar function as adjacent gene experimentally validated in other plants. Abbreviations: ABF, ABRE-binding factor; AREB, ABA-responsive-element-binding protein; ERF, ethylene-responsive-element-binding factor; DRE, dehydration-responsive element; DREB, DRE-binding factor. CBF4, DREB1B, DREB2A, DREB3, *GmERF3* and WIPK are the members of ERF family; APX, L-ascorbate peroxidase; bZIP, basic-domain leucine-zipper; GRF, growth-regulating factor; FAD, fatty acid desaturation; HSFA, class A of heat shock transcription factor; *NCED*, 9-cis-epoxycarotenoid dioxygenase gene; SnRK2.6, SNF1-related protein kinase2.6/OST1 kinase; NAC, NAM, ATAF, and CUC transcription factor; PP2Ac-1, catalytic subunit (c) of protein phosphatase 2A; ZPT, Renamed from EPF, Cys2/His2-type zinc finger protein.

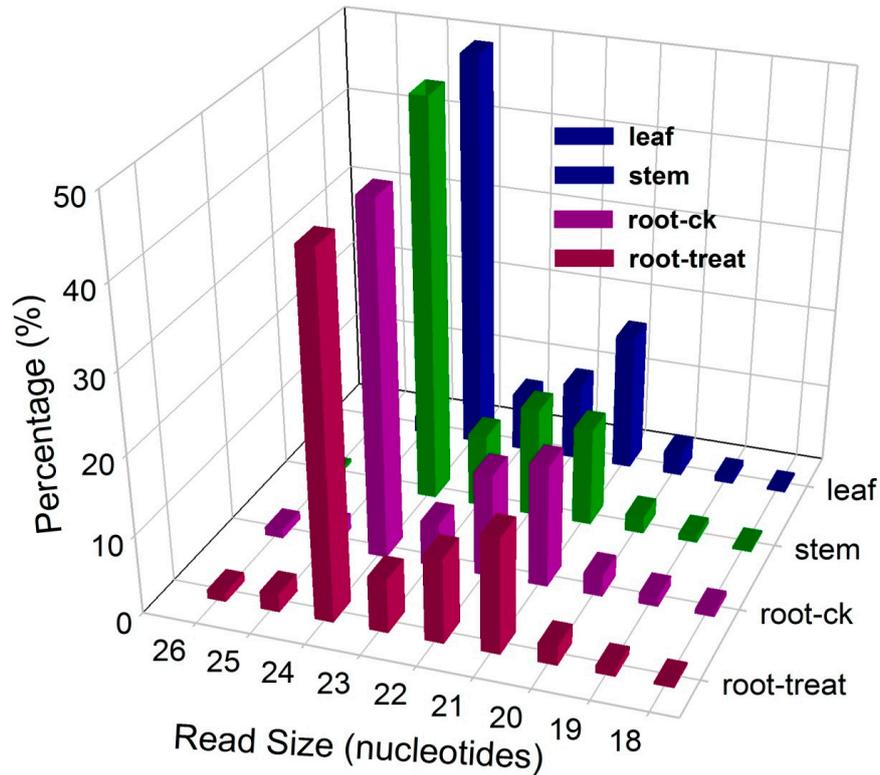


Figure S5. Length distribution of small RNAs from different tissues (roots, stems and leaves) under the same normal conditions and drought-treated roots.

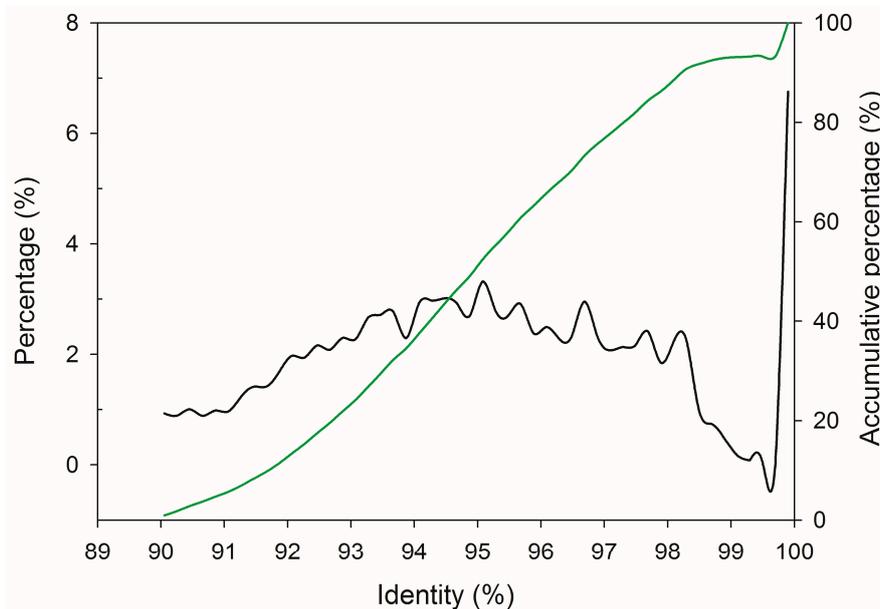


Figure S6. The identity of ESTs sequence from *Nicotiana tabacum* L. and the genome database from *Nicotiana benthamiana*. The black curve line is the percentage of ESTs with identity >90%, while the green curve line is accumulative percentage of ESTs with identity >90%.