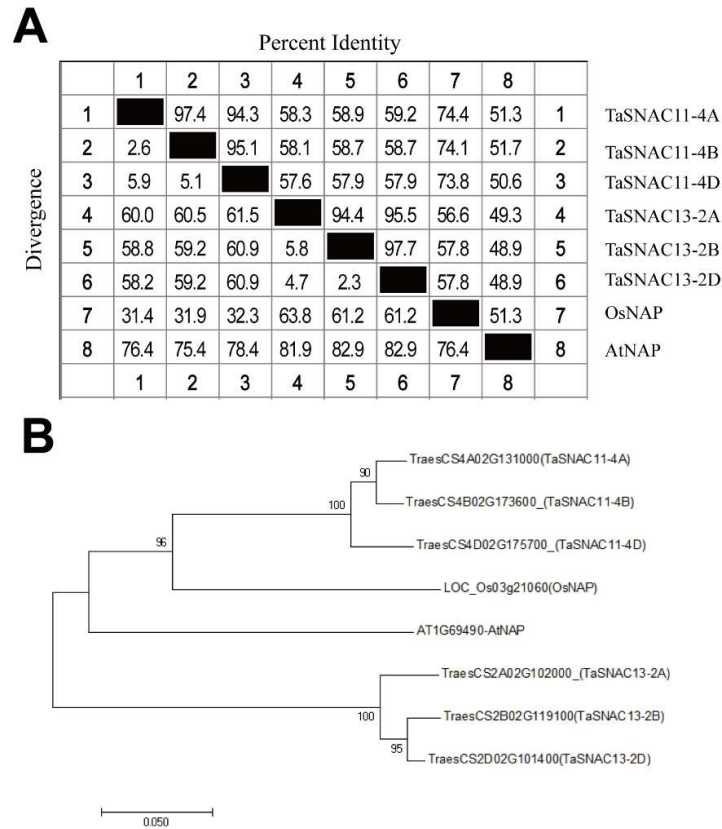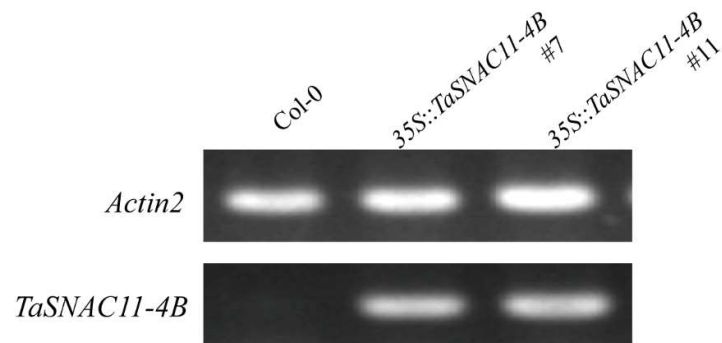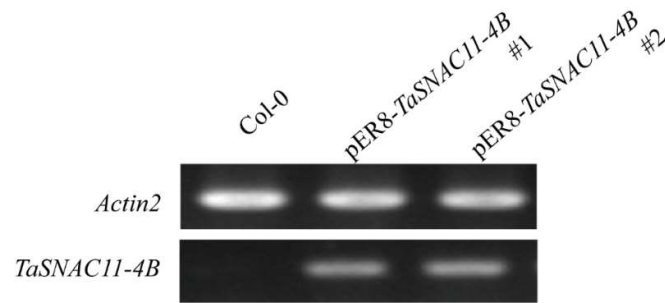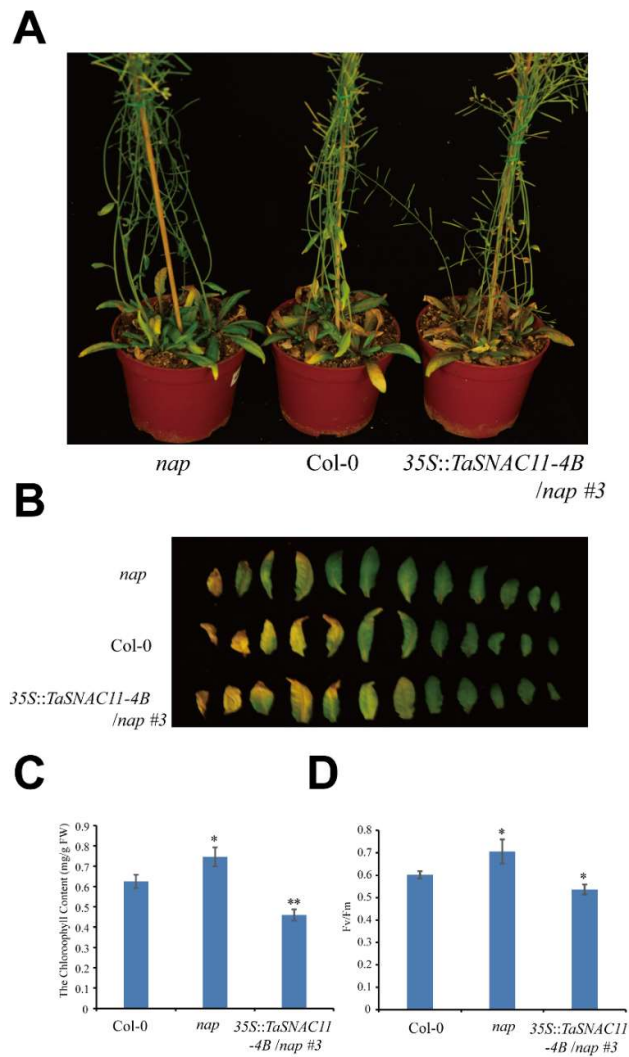**Supplementary Figures**

Supplementary Figure 1 Protein sequence alignment and phylogeny of TaSNAC 11-4B with other NAC homologues including OsNAP and AtNAP. (**A**) Identity and divergence of analyze among TaSNAC11-4B and other NAC proteins as indicated using MegAlign software. (**B**) Neighbor-joining (NJ) phylogenetic tree among TaSNAC11-4B and other NAC proteins including OsNAP and AtNAP.
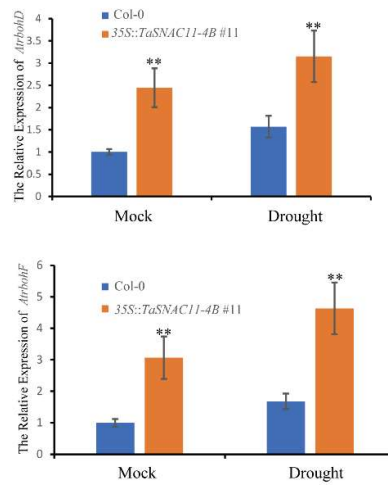

Supplementary Figure 2 Expression of *TaSNAC11-4B* in different lines as indicated.

Supplementary Figure 3 Expression of *TaSNAC11-4B* in Col-0 and EST-inducible transgenic plants.

Supplementary Figure 4 Phenotype analysis of *35S::TaSNAC11-4B/nap* #3.(**A**) Phenotypes of whole plants of *nap* null mutant, Col-0 and *35S::TaSNAC11-4B/nap* #3. (**B**) Phenotypes of individual rosette leaves of *nap* null mutant,Col-0 and *35S::TaSNAC11-4B/nap* #3. (**C–D**) Chlorophyll content and Fv/Fm ratio of the sixth leaf from plants of different genotypes. Asterisks indicate statistically significant differences (* $p < 0.05$; ** $p < 0.01$) using student's *t*-test. Three independent experiments were performed.

Supplementary Figure 5. Expression analysis of *AtrbohD* and *AtrbohF* genes in Col-0 and TaSNAC11-4B #11 overexpression plants.

Supplementary Table 1. Primers used in this study.

Primers Name	Primers Sequences (5'-3')
Q_SAG12_F	TCCAATTCTATTCGTCTGGTGTGT
Q_SAG12_R	CCACTTTCTCCCCATTTTGTTC
Q_ACT2_F	TGTGCCAATCTACGAGGGTTT
Q_ACT2_R	TTTCCCGCTCTGCTGTTGT
Q_RBCS3B_F	AGTAATGGCTTCCTCTATGC
Q_RBCS3B_R	GTGATGTCCTTGTTGGTCTTG
Q_SAG13_F	TGTCTGCGACGTCTCTTCT
Q_SAG13_R	TTGAATATTGACGTTCCCA
TaSNAC11-4B-QF	ACAGCATGCCGCAGCTTGGG
TaSNAC11-4B-QR	CTGGCTGGCTCGTCGACCCG
TaGAPDH-QF	TTAGACTTGCGAAGCCAGCA
TaGAPDH-QR	AAATGCCCTTGAGGTTTCCC
pBridgeTaSNAC11-4BF	TGTATCGCCGGAATTCATGATCATGTCCGACCCGGC
pBridge TaSNAC11-4BR	GCAGGTCGACGGATCCTTAGAAACGGAGCAACGTCC
pBridge TaSNAC11-4B-NR	GCAGGTCGACGGATCCGAGGCGGTACTCGTGCATGA

pBridge TaSNAC11-4B-CF	TGTATCGCCGGAATTCATGGCTGCCGCCGACGCACACG
TaSNAC11-4B-OEF	GTGGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGATCA TGTCCGACCCGGC
TaSNAC11-4B-OER	GTGGGGACCACTTTGTACAAGAAAGCTGGGTCTTAGAAAC GGAGCAACGTCC
TaSNAC11-4B-RTF	ATGATCATGTCCGACCCGGC
TaSNAC11-4B-RTR	GAGGCGGTACTCGTGCATGA
AtrbohD-qF	AGCTTCACAATTATTGCACGAG
AtrbohD-qR	TCTCCAGTTAGGTTTAGCGAAG
AtrbohF-qF	TATTGGAGACCATCTTGCTTGT
AtrbohF-qR	CGTTAAAACCGGTTAGTCGATC
AtrbohD -pGreen-F	CGGTATCGATAAGCTTGTCTCCATCTATGTATCTAT
AtrbohD -pGreen-R	TAGAACTAGTGGATCCCGAATTCGAGAAACCAAAAAGAT C
AtrbohF -pGreen-F	CGGTATCGATAAGCTTGTAGTCTACATCTAACCCATTTG
AtrbohF -pGreen-R	TAGAACTAGTGGATCCAGATCCAAAGTCGGAATTC