

## Accepted Manuscript

Title: Molecular and functional characterization of ShNAC1,  
an NAC transcription factor from *Solanum habrochaites*

Authors: Hui Liu, Yuhong Zhou, Hanxia Li, Taotao Wang,  
Junhong Zhang, Bo Ouyang, Zhibiao Ye



PII: S0168-9452(17)31132-9  
DOI: <https://doi.org/10.1016/j.plantsci.2018.03.005>  
Reference: PSL 9775

To appear in: *Plant Science*

Received date: 30-11-2017  
Revised date: 2-3-2018  
Accepted date: 3-3-2018

Please cite this article as: { <https://doi.org/>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Title:**

**Molecular and functional characterization of ShNAC1, an NAC transcription factor from *Solanum habrochaites***

**Authors:**

Hui Liu<sup>1</sup>, Yuhong Zhou<sup>2</sup>, Hanxia Li<sup>2</sup>, Taotao Wang<sup>2</sup>, Junhong Zhang<sup>2</sup>, Bo Ouyang<sup>2, \*</sup>, Zhibiao Ye<sup>2, \*</sup>

<sup>1</sup> Key Laboratory of Biology and Genetic Resources of Rubber Tree, Ministry of Agriculture, Rubber Research Institute, Chinese Academy of Tropical Agricultural Sciences, Danzhou 571737, China

<sup>2</sup> Key Laboratory of Horticultural Plant Biology, Ministry of Education, Huazhong Agricultural University, Wuhan 430070, China

**\* Corresponding authors:**

Zhibiao Ye, E-mail: zbye@mail.hzau.edu.cn.

Bo Ouyang, E-mail: bouy@mail.hzau.edu.cn.

**Highlights:**

- *ShNAC1* is induced by abiotic stresses and exogenous signals.
- ShNAC1 is localized in the nucleus but with no transactivation activity.
- Overexpression of *ShNAC1* in tomato reduces plant cold, drought, and salt tolerance.
- *ShNAC1* acts as a positive regulator of leaf senescence.
- ShNAC1 functions via regulating ethylene pathway and stress response genes.

**ABSTRACT**

Download English Version:

<https://daneshyari.com/en/article/8356478>

Download Persian Version:

<https://daneshyari.com/article/8356478>

[Daneshyari.com](https://daneshyari.com)