

Accepted Manuscript

Molecular cloning and expression analysis of two lectin genes in *Sophora flavescens*

Miaomiao Liu, Xiqiang Wang, Dengke Yin, Qingshan Yang, Yi Liao, Jiawen Wu



PII: S2452-0144(17)30015-8
DOI: doi: [10.1016/j.genrep.2017.03.001](https://doi.org/10.1016/j.genrep.2017.03.001)
Reference: GENREP 125

To appear in: *Gene Reports*

Received date: 13 December 2016
Revised date: 16 February 2017
Accepted date: 2 March 2017

Please cite this article as: Miaomiao Liu, Xiqiang Wang, Dengke Yin, Qingshan Yang, Yi Liao, Jiawen Wu, Molecular cloning and expression analysis of two lectin genes in *Sophora flavescens*. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Genrep(2017), doi: [10.1016/j.genrep.2017.03.001](https://doi.org/10.1016/j.genrep.2017.03.001)

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.

Molecular cloning and expression analysis of two lectin genes in *Sophora flavescens*

Miaomiao Liu^{a,1}, Xiqiang Wang^{b,1}, Dengke Yin^b, Qingshan Yang^b, Yi Liao^a,
Jiawen Wu^{a,*}

^a Key Laboratory of Xin'an Medicine, Ministry of Education, Anhui University of Traditional Chinese Medicine, Hefei 230038, People's Republic of China.

^b College of Pharmacy, Anhui University of Traditional Chinese Medicine, Hefei 230038, People's Republic of China.

ABSTRACT

Plant lectins are greatly introduced in modern medical diagnostics, which play a key role to diagnose the degrees of malignant tumor and used to inhibit different types of cancer cells. To further characterize the structure and function of plant lectins, we cloned, expressed and analyzed two lectin genes from a Chinese medicinal plant *Sophora flavescens* (*sfl1*, *sfl2*). The two genes were successfully cloned by reverse transcription-polymerase chain reaction

Abbreviations: RT-PCR, reverse transcription-polymerase chain reaction; PCR, polymerase chain reaction; IPTG, isopropyl-beta-D-thiogalactopyranoside; 3D, three dimensional.

*Correspondence to: Jiawen Wu, Key Laboratory of Xin'an Medicine, Ministry of Education, Anhui University of Traditional Chinese Medicine, No. 103, Meishan Street, Hefei 230038, People's Republic of China. E-mail addresses: wujiawen@ahtcm.edu.cn.

Download English Version:

<https://daneshyari.com/en/article/5590046>

Download Persian Version:

<https://daneshyari.com/article/5590046>

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