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
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

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.