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Methods and compositions for modulating gene expression in plants

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Luo et al.

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(54) **METHODS AND COMPOSITIONS FOR MODULATING GENE EXPRESSION IN PLANTS**

(58) **Field of Classification Search**
None
See application file for complete search history.

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(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. days.

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(21) Appl. No.: **15/002,819**

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(22) Filed: **Jan. 21, 2016**

Cai et al. A rice promoter containing both novel positive and negative cis-elements for regulation of green tissue-specific gene expression in transgenic plants. (2007) Plant Biotechnology Journal; vol. 5; pp. 664-674.*

(65) **Prior Publication Data**

US 2016/0215295 A1 Jul. 28, 2016

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(51) **Int. Cl.**
C12N 15/82 (2006.01)
C07K 14/415 (2006.01)

(57) **ABSTRACT**

(52) **U.S. Cl.**
CPC **C12N 15/8222** (2013.01); **C07K 14/415** (2013.01); **C12N 15/8216** (2013.01); **C12N 15/8225** (2013.01)

The present invention provides methods and compositions for regulation of gene expression in plants. In particular, the invention provides nucleic acids that can confer tissue specific and constitutive expression to operably linked polynucleotides of interest.

20 Claims, 13 Drawing Sheets