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A potential efflux boron transporter gene *GsBOR2*, positively regulates *Arabidopsis* bicarbonate tolerance

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Highlights

- The expression pattern of *GsBOR2* was analyzed.
- Overexpression of *GsBOR2* enhanced alkaline tolerance.
- Overexpression of *GsBOR2* specifically enhanced bicarbonate tolerance.
- *GsBOR2* is a potential boron exporter that mediates boron efflux from cells.

Abstract

Soil alkalization severely restricts agricultural production and economic development worldwide, this problem is far more serious in Songnen Plain, the largest commodity grain base of China. However, little research has been done concerning the mechanisms of plant responses to alkaline stress to date. In this study, we isolated an alkali inducible gene *GsBOR2*

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