

# High Transformation Efficiency Non-Dormant Alfalfa Line 2525-14

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### **ABSTRACT**

Researchers at UC Davis have produced a non-dormant alfalfa line highly amenable to transformation, allowing direct improvement of the line. Higher transformation efficiency and a non-dormant life-cycle make this line of alfalfa a valuable tool for research and breeding.

### **FULL DESCRIPTION**

Historically, non-dormant varieties have been difficult to transform. Recently, however, researchers at UC Davis have further improved on Highline and isolated a high-transformation efficiency subset, UC 2525-14. With this new alfalfa line, non-dormant alfalfa lines can be engineered to possess drought or salt tolerant traits, improving the robustness of non-dormant alfalfa and further increasing yield. The resulting transformed plant may be used as a research tool, or introgressed into other varieties.

Highline is a proprietary non-dormant alfalfa variety developed at UC Davis and distributed by the University of California Foundation Seed Program.

## **APPLICATIONS**

▶ Non-dormant alfalfa line highly amenable to transformation

# **FEATURES/BENEFITS**

- ▶ Alfalfa plants are non-dormant during Autumn period
- ► Alfalfa plants exhibit high regeneration efficiency
- ► Alfalfa plants exhibit high transformation efficiency
- ▶ Alfalfa plants have the ability to be genetically modified with advantageous trait genes

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### **INVENTORS**

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# OTHER INFORMATION

### **KEYWORDS**

alfalfa, high

transformation efficiency

### **CATEGORIZED AS**

► Agriculture &

### **Animal Science**

- ▶ Plant Traits
- ▶ Plant Varieties

## **RELATED CASES**

2014-99C-0

### **ADDITIONAL TECHNOLOGIES BY THESE INVENTORS**

▶ Improved Plant Regeneration Method Using GRFs, GIFs or Chimeric GRF-GIF Proteins

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