

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

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ [Improved Plant Regeneration Method Using GRFs, GIFs or Chimeric GRF-GIF Proteins](#)

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OTHER INFORMATION

KEYWORDS

alfalfa, high

transformation efficiency

CATEGORIZED AS

- ▶ **Agriculture & Animal Science**
 - ▶ [Plant Traits](#)
 - ▶ [Plant Varieties](#)

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