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一、一站式检索

1. 查找文献

基本检索


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FISH-Based Analysis of Clonally Derived CHO Cell Populations Reveals High Probability for **Transgene** Integration in a Terminal Region of Chromosome 1 (1q13).

By : Li, Shengwei^{1,2}; Gao, Xiaoping² gaoxp@batbiotech.com; Peng, Rui¹; Zhang, Sheng^{2,3}; Fu, Wei^{2,3}; Zou, Fangdong¹ zoufd@yahoo.com

Source : PLoS ONE. 9/29/2016, Vol. 11 Issue 9, p1-15. 15p.

Subjects : *Recombinant proteins ; ***Transgenes** ; *Chromosomes ; *Protein expression ; *Vascular endothelial growth factor receptors ; *Molecular cloning

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RESEARCH ARTICLE

FISH-Based Analysis of Clonally Derived CHO Cell Populations Reveals High Probability for Transgene Integration in a Terminal Region of Chromosome 1 (1q13)


Shengwei Li^{1,2}, Xiaoping Gao^{2*}, Rui Peng¹, Sheng Zhang^{2,3}, Wei Fu^{2,3}, Fangdong Zou^{1*}

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Citation: Li S, Gao X, Peng R, Zhang S, Fu W, Zou F (2016) FISH-Based Analysis of Clonally Derived CHO Cell Populations Reveals High Probability for Transgene Integration in a Terminal Region of Chromosome 1 (1q13). PLoS ONE 11(9): e0163893. doi:10.1371/journal.pone.0163893

Abstract

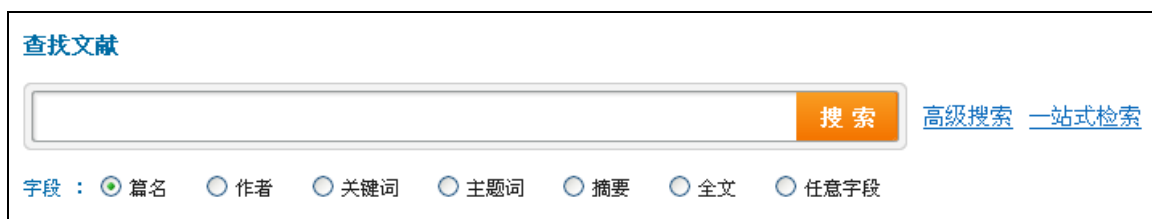
A basic goal in the development of recombinant proteins is the generation of cell lines that express the desired protein stably over many generations. Here, we constructed engineered Chinese hamster ovary cell lines (CHO-S) with a pCHO-hVR1 vector that carried an extracellular domain of a VEGF receptor (VR) fusion gene. Forty-five clones with high hVR1 expression were selected for karyotype analysis. Using fluorescence *in situ* hybridization (FISH) and G-banding, we found that pCHO-hVR1 was integrated into three chro-

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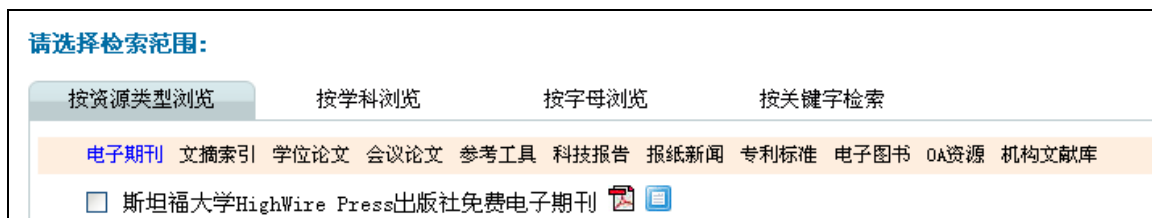


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Plant Cell Reports (2016)

An approach for restoring recombination activity of complementation split-Cre was developed to excise the transgene in hybrid progeny of GM crops.

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Plant Cell Rep (2016) 35:2045–2053
DOI 10.1007/s00299-016-2015-x



ORIGINAL ARTICLE

Intein-mediated Cre protein assembly for transgene excision in hybrid progeny of transgenic *Arabidopsis*

Jia Ge¹ · Lijun Wang¹ · Chen Yang¹ · Lingyu Ran¹ · Mengling Wen¹ · Xianan Fu¹ · Di Fan¹ · Keming Luo¹

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Abstract

Key message An approach for restoring recombination activity of complementation split-Cre was developed to excise the transgene in hybrid progeny of GM crops.

Abstract Growing concerns about the biosafety of genetically modified (GM) crops has currently become a limited factor affecting the public acceptance. Several approaches have been developed to generate selectable-marker-gene-free GM crops. However, no strategy was reported to be broadly applicable to hybrid crops. Previous studies have demonstrated that complementation split-Cre recombinase restored recombination activity in transgenic plants. In this

and the foreign genes flanked by two loxP sites were efficiently excised. Our strategy may provide an effective approach for generating the next generation of GM hybrid crops without biosafety concerns.

Keywords Biosafety · Cre/loxP · Intein · Hybrid · *Arabidopsis*

Introduction

Since the first commercialized genetically modified (GM)

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