

Transgene Mapping Analysis

BY FLUORESCENCE IN SITU HYBRIDIZATION

Let the FISH Method to Visualize the Transgene Insertion Site

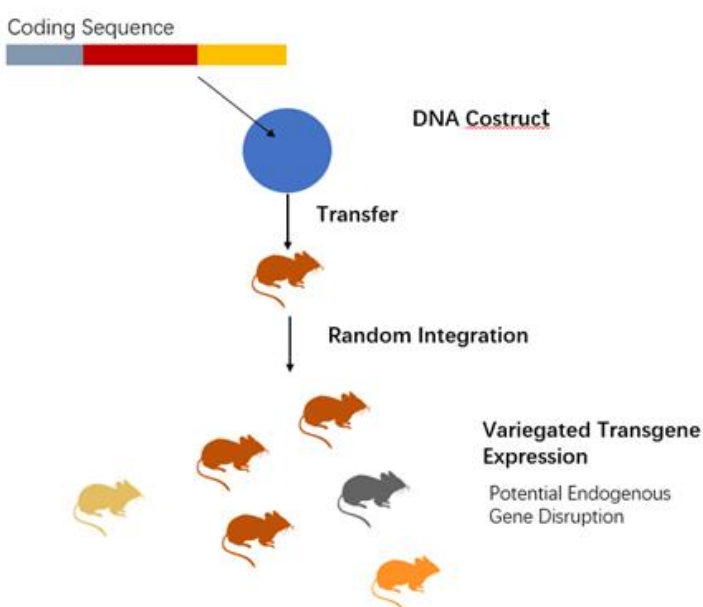
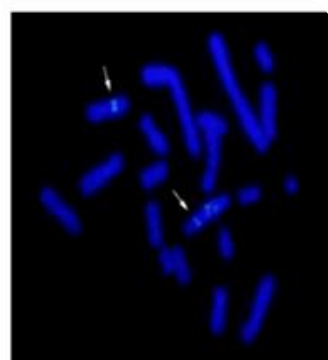
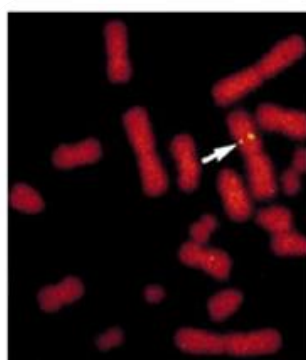
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WHY MAP A TRANSGENE?

For transgenic cell lines and transgenic animals generated via many methods, the integration site is random and in most cases not known. Integration of a transgene can disrupt an endogenous gene, potentially interfering with interpretation of the phenotype. When the transgene insertion site is unknown, zygosity is determined by expensive quantitative PCR-based approach. These limitations often force investigators to maintain transgenic models or cell lines in a hemizygous state, which may lead to less than desired expression levels of the transgene and make it less efficient and more costly. **Fluorescence in situ hybridization (FISH) is a powerful technique that can be used to visualize transgene integration sites and provide a better understanding of transgene behavior.**

BENEFITS OF CHARACTERIZING A TRANSGENE INSERTION SITE

- Better correlation of phenotypes with transgene expression
- Ability to determine zygosity by genotyping assay and more cost effective management of transgenic strains
- Enhanced predictability of transgene segregation when breeding and intercrossing
- Awareness of any potential disruption of the regulatory or coding region of a critical endogenous gene



FEATURES of CREATIVE BIOARRAY'S TRANSGENE MAPPING SERVICE

- cDNA (2kb~) or genomic DNA fragment on banded chromosomes
- Species: human, mouse, rat, hamster, chicken
- Confirm the integration of transgenes
- Visualize chromosome band location

As a leading technology and service provider, Creative Bioarray's elite scientists can provide the best Transgene Mapping service for you!

Contact us to Learn More



Creative Bioarray

USA Add: 45-1 Ramsey Road, Shirley, NY 11967, USA | Tel: 1-631-626-9181 | Fax: 1-631-614-7828

Europe Tel: 44-208-144-6005

Email: info@creative-bioarray.org | Web: www.creative-bioarray.org