STRATAGENE

QuikChange™
SITE-DIRECTED MUTAGENESIS KIT

Stratagene Times

QuikChange Site-Directed Mutagenesis Kit
Mutagenesis made easy!

MUTAGENESIS BREAKTHROUGH

150 Times More Accurate than PCR-based Mutagenesis!

REPLICATES ONLY PARENTAL DNA

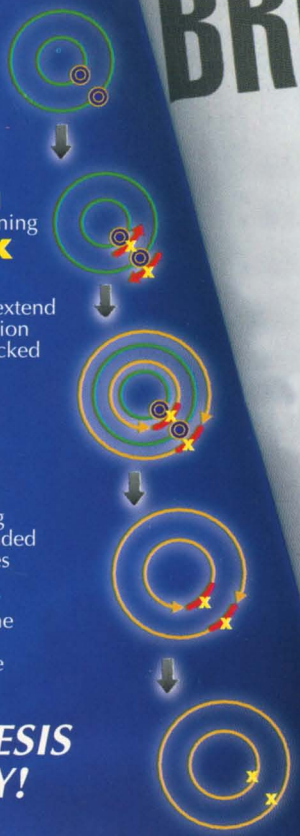
Stratagene has just revolutionized site-directed mutagenesis with the QuikChange site-directed mutagenesis kit. You can now complete your mutagenesis in one day, with a simple 4-step method.

No more single-stranded DNA templates, subcloning into specialized vectors, unique restriction sites, or multiple transformations. And the extreme efficiency of this method cuts your screening time in half!

QuikChange™ Site-Directed Mutagenesis Kit*

Near 100% Efficiency
- Eliminates background
- Cuts screening time in half
- Highest efficiency method
- Mutation in virtually all transformants

150 Times More Accurate than PCR-based Mutagenesis
- Extends without PCR
- Uses high fidelity *Pfu* DNA polymerase
- Replicates only parental DNA
- Reduces second-site mutations 150-fold



1-Day Method
Gene in plasmid with target site for mutation

1. Mix
Denature plasmid and anneal primers containing the desired mutation

2. Cycle
Temperature cycle to extend and incorporate mutation primers resulting in nicked circular strands

3. Digest
Digest parental DNA template

4. Transform
Transform the resulting annealed double-stranded nicked DNA molecules

After transformation the XL2-Blue *E.coli* cell repairs the nicks in the plasmid

MUTAGENESIS MADE EASY!

QuikChange™ Site-Directed Mutagenesis Kit catalog #200518 *Patent pending

Call Stratagene or your Stratagene distributor for the complete picture.

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STRATAGENE

Reader Service No. 288

GENOME RESEARCH

Volume 7 Number 2
February 1997

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PERSPECTIVE

RESEARCH

(continued)

LETTERS

GENOME METHODS

COVER Analysis of two vertebrate homologs of the *Drosophila eyes absent* gene. Shown are the sequence lineups of the homology domains ED1 and ED2 of the fly, human, and mouse homologs. (For details, see Zimmerman et al., p. 128.)