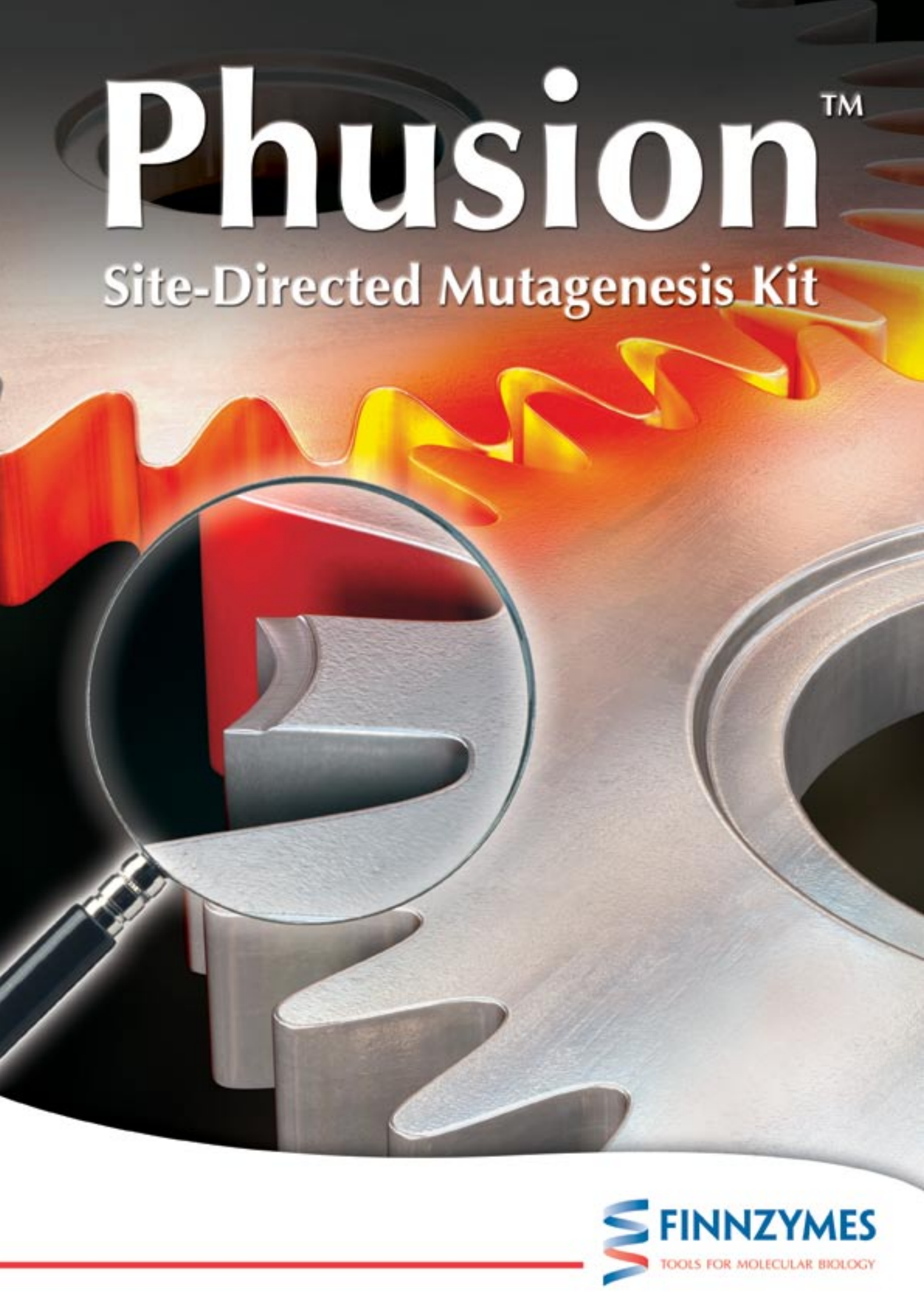


PhusionTM

Site-Directed Mutagenesis Kit



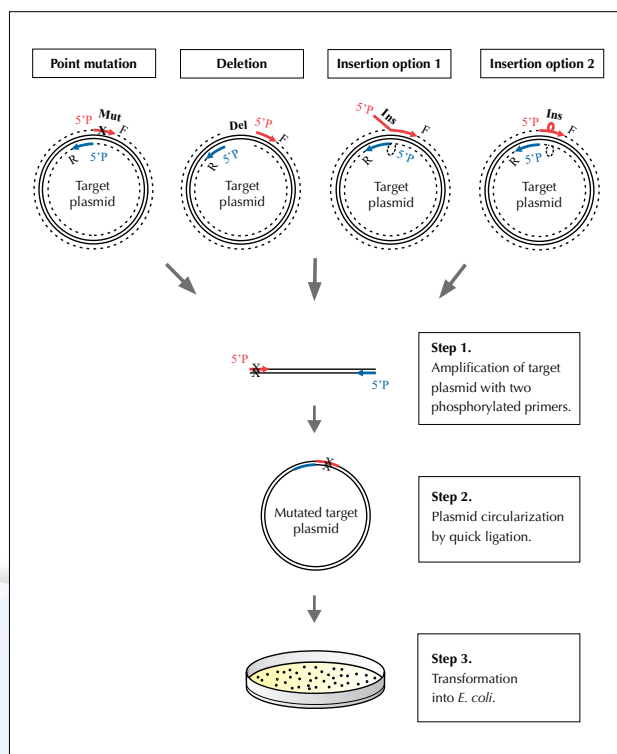
Phusion™

Site-Directed Mutagenesis Kit

A Fast and Reliable System for Generating Mutations

Finnzymes' Phusion™ Site-Directed Mutagenesis Kit is a versatile and efficient tool for introducing point mutations, insertions or deletions in any type of plasmid DNA. This kit uses the highly processive Phusion™ Hot Start High-Fidelity DNA Polymerase for exponential PCR amplification of dsDNA plasmid to be mutated. The mutagenesis protocol comprises only three steps. Phosphorylated primers are designed to introduce the desired mutation(s) so that they anneal back to the plasmid. Phusion DNA Polymerase amplifies the plasmid. The mutated plasmid is then circularized in a 5-minutes ligation and transformed into bacteria.

The Phusion™ Site-Directed Mutagenesis Protocol



Advantages

- Robust and reliable amplification
- No special vector, restriction sites, or methylation requirements
- No need to destroy starting template in separate step
- Amplification of large plasmids (up to 10 kb)
- Phusion™ Hot Start High-Fidelity DNA Polymerase delivers extreme fidelity and specificity to reactions
- Compatible with all strains of competent *E. coli* cells

Ordering Information

Phusion™ Site-Directed Mutagenesis Kit

F-541 | 20 reactions including 10 control reactions

Kit Components: Phusion Hot Start DNA Polymerase, 5x Phusion HF Buffer, dNTP mix, Quick T4 DNA Ligase (New England Biolabs), 2x Quick Ligation Buffer (New England Biolabs) and Control Plasmid with Control Primer Mix.

Phusion is a trademark of Finnzymes Oy.
Quick Ligation is a trademark of New England Biolabs, Inc.

The quality system of Finnzymes Oy is certified according to standard SFS-EN ISO9001:2000.