

Mutagenesis kit, site directed, Thermo Scientific Finnzymes Phusion®



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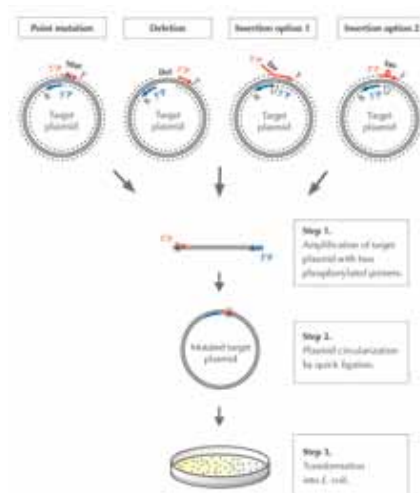
- Robust and reliable amplification
- No special vector, restriction sites, or methylation requirements
- No need to destroy starting template in separate step
- Amplification of large plasmids (up to 10kb)
- Phusion® Hot Start II high fidelity DNA polymerase delivers extreme fidelity and specificity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

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 II 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 back to the plasmid. Phusion DNA polymerase amplifies the plasmid. The mutated plasmid is then circularised in a 5min ligation and transformed into bacteria.

Kit components

Phusion Hot Start II 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.

Catalogue No	Alt. No	Description	Quantity
FZF-541	F-541	Phusion® site-directed mutagenesis kit	20 reactions including 10 control reactions



The Phusion® site-directed mutagenesis protocol.

illustra RAPD analysis beads



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For performing DNA profiling experiments or for detecting genomic polymorphisms using the randomly amplified polymorphic DNA (RAPD) technique.

- RAPD reactions are simple to perform - simply add genomic DNA solution and primer to a tube of RAPD analysis beads to a final reaction volume of 25µL and cycle the reaction
- Each lot of RAPD analysis beads is function tested to ensure its ability to generate a differential banding pattern between the two control *E. coli* strains using RAPD analysis primer 2 included with the RAPD beads
- RAPD reactions are pre-optimised for use with a wide variety of organisms
- Beads are provided in thin walled 0.5mL tubes compatible with most thermal cyclers

The RAPD reactions are provided as dried beads that contain all the necessary PCR components, except primers. Pre-formulated, pre-dispensed, single dose reaction beads are provided as ambient-temperature-stable beads to ensure greater reproducibility between reactions, minimise pipetting steps and reduce the potential for pipetting errors and contamination.

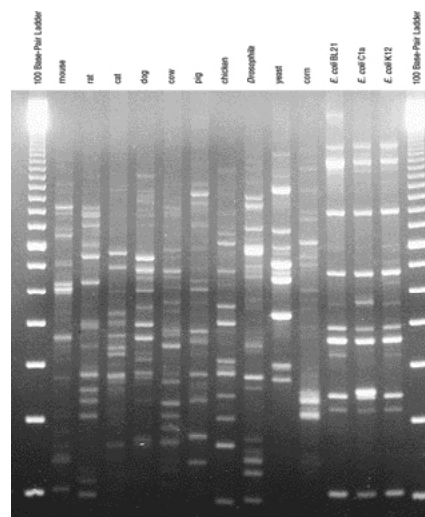
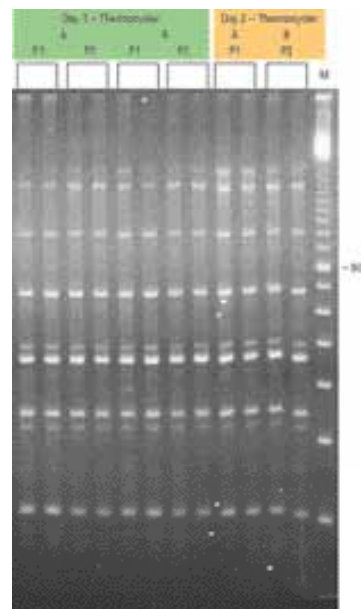
Each pack includes: sufficient reagents for 100 individual RAPD reactions: RAPD analysis beads, control *E. coli* BL21 DNA, control *E. coli* C1a DNA, RAPD analysis primer 2, and instruction booklet (DNA from two *E. coli* strains and RAPD analysis primer 2 are provided as controls to assay the ability of the RAPD beads to amplify DNA and identify polymorphisms.)

Kit components

Analysis beads and six primers which can be used with RAPD analysis beads. Each primer in the set is an arbitrary 10-mer which is specifically designed for use in RAPD analysis.

The primers are supplied lyophilised and can be reconstituted with 500µL of sterile distilled water to give a final concentration of 5pmol/µL.

Catalogue No	Description	Quantity
GZ27950001	illustra ready-to-go RAPD analysis beads	100 reactions
GZ27950201	illustra ready-to-go RAPD analysis kit	100 reactions and 6 primers



*Polymerase Chain Reaction (PCR) is a process covered by patents owned by Hoffman-La Roche