

GeNei™ *InSitu* PCR-Based Site Directed Mutagenesis Kit

Description: GeNei™ *InSitu* PCR-Based Site Directed Mutagenesis Kit is a fast, easy and efficient PCR based method to introduce point mutations as well as insertion and deletion mutations, an invaluable technique for protein structure-function and other related studies. The protocol involves two steps of PCR reactions, the product of the first PCR being used as primer for second PCR. A PCR primer (supplied) that introduces a unique restriction site, is used for second PCR thus facilitating screening for mutants. Second PCR products are transformed and colonies are tested for unique restriction enzyme digestion. Positive clones are mutants with more than 95% level of confidence.

Application:

- Generate point mutation, insertion and deletion.
- Switch amino acids, delete or insert single or multiple amino acids.

Ordering Information:

Product	Size	Cat #
GeNei™ InSite PCR-Based Site Directed Mutagenesis Kit (10 reactions)	1 Pack	105589
GeNei™ InSite PCR-Based Site Directed Mutagenesis Kit (5 reactions)	1 Pack	105590

Storage: -20°C

Special Features:

- The mutants are predicted at more than 95% level of confidence.
- High fidelity XT-5 Polymerase ensures the absence of unwanted mutations, essential for protein expression studies.
- Easy detection of mutants by unique restriction enzyme digestion.
- Easy five step protocol.

Materials provided:

1. Vector for subcloning, has multicloning sites similar to pUC 18.
2. Primer I containing unique Restriction enzyme site.
3. XT-5 PCR System.
4. dNTP mix.
5. *Not* I restriction enzyme with assay buffer.

GeNei™ DNA - Labelling Kit (by Nick Translations 25 reactions)

Description: DNA Polymerase I adds nucleotides at the 3'-hydroxy terminus of nicks in double stranded DNA created by treatment with DNase I. DNA polymerase I also has 5'-3' exonuclease activity resulting in fresh DNA synthesis from the nick, thus replacing pre-existing nucleotides with radio-labelled nucleotides.

The kit is supplied with enough reagents for 25 reactions.

Storage: -20°C

Ordering Information:

Product	Size	Cat #
GeNei™ DNA Labelling Kit (by Nick Translation)	1 Pack	105582

Application:

- Easy and convenient protocol for labelling double stranded DNA with high specific activity.
- The probes can be used for various applications like Dot and Slot Blot Hybridization, Southern Hybridization, etc.

Materials provided:

1. Control DNA
2. 10X Nick Translation Buffer
3. 15mM dNTP Mix
4. DNase I
5. DNA Polymerase I
6. Nuclease Free Water
7. Instruction Manual

Note: (α -³²P)-dATP (not supplied)