

EnGen™ Mutation Detection Kit

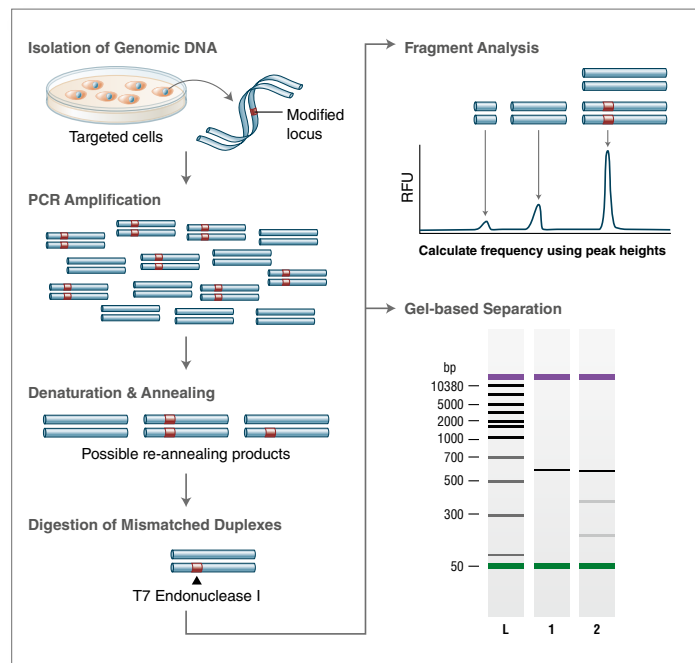
The EnGen Mutation Detection Kit is designed to streamline genome engineering workflows by offering robust high-fidelity amplification and reduced protocol time. This kit contains optimized reagents and protocols for the amplification, detection and analysis of on-target genome editing events (i.e., CRISPR/Cas9, TALENs, Zinc-finger Nucleases), enabling an estimation of genome editing efficiency.

Advantages

- Reduced protocol time yields faster results
- Included Q5® Hot Start High-Fidelity 2X Master Mix offers robust, high fidelity amplification
- Included control plasmids and PCR primers for troubleshooting PCR and T7 Endonuclease I digestion

Visit international.neb.com/E3321 for more information

Workflow for EnGen Mutation Detection Kit



Genomic DNA is amplified with primers bracketing the modified locus. PCR products are then denatured and re-annealed yielding three classes of possible structures. Duplexes containing a mismatch greater than one base are digested by T7 Endonuclease I. The DNA is then electrophoretically separated and fragment analysis is used to estimate targeting efficiency.