

TILLING-U Kit™

OPTIMIZED REAGENTS FOR THE LOW COST & RAPID DISCOVERY OF USEFUL SNPs IN ANY SPECIES

Complete reagents for TILLING with unlabeled primers

TILLING and EcoTILLING applications were originally designed to be used on the LICOR® DNA Analyzer, but have moved to numerous other platforms which do not require the use of dye labeled primers. The benefits are an inexpensive platform for reverse genetics and rapid SNP discovery, which still allows pooling of samples to increase throughput and reduce discovery bias. TILLING-U™ kits contain SNIperase-U™, which was specifically developed for optimal cleavage of unlabeled PCR fragments.

TILLING studies need to survey target PCR fragments in thousands, tens of thousands or hundreds of thousands of individuals to identify induced mutations correlated with a desired phenotype.

EcoTILLING studies are primarily concerned with identifying informative SNPs for population genetics, forensics, conservation and resource management work. Inclusion of too few individuals in the discovery panel can introduce ascertainment bias. EcoTILLING allows hundreds or thousands of individuals to be included in the discovery panel by pooling, which reduces ascertainment bias, and allows for the discovery of the most informative SNPs for the study at hand.

The TILLING-U kit™ includes reagents for PCR amplification of the target PCR fragment, cleavage of the heteroduplexes, halting of the reaction, and heterozygous and homozygous controls to troubleshoot.

KEY BENEFITS

- Optimized for systems that require unlabeled primers
- Comes complete with control kit for troubleshooting
- Includes SharkaTAQ™ DNA polymerase and dNTPs
- Contains all reagents to perform PCR and cleavage reactions with one optimized kit
- Includes both a heterozygous and a homozygous control mix containing LI-COR IRDye® primers and template

COST

- \$750 for 1,000 reactions
- Discounts and custom packaging available for bulk orders
- Please contact us for more information

CONTENTS

- SharkaTAQ™ polymerase
- SNIperase-U™ nucleases
- Controls containing template DNA & primers
- MgCl₂
- dNTPs



MORE GREAT FRONTIER GENOMICS PRODUCTS

- SNIperase-U™ nucleases
- TILLING-L Kit™
- SNIperase-L™ nucleases
- SharkaTAQ™ polymerase

