

## GeNei™ Multiplex PCR Teaching Kit

### Description:

Multiplex-PCR is a variant of PCR, which enables simultaneous amplification of many targets of interest in one reaction by using more than one pair of primers. This method has been applied in many areas of DNA testing, including analysis of deletions, mutations, and polymorphisms or quantitative assays and reverse transcriptase PCR. Typically, it is used for genotyping applications where simultaneous analysis of multiple markers is required, detection of pathogens or genetically modified organisms (GMO's), or for microsatellite analysis.

This kit enables the user to perform multiplex PCR using DNA containing the three loci considered to be amplified using six primers (3 forward and 3 reverse) that result in three bands, 200bp, 300bp and 500bp, respectively. The amplified products are then analysed by running the sample on 2.0% agarose gel along with a marker.

The kit contains reagents enough for 5 reactions

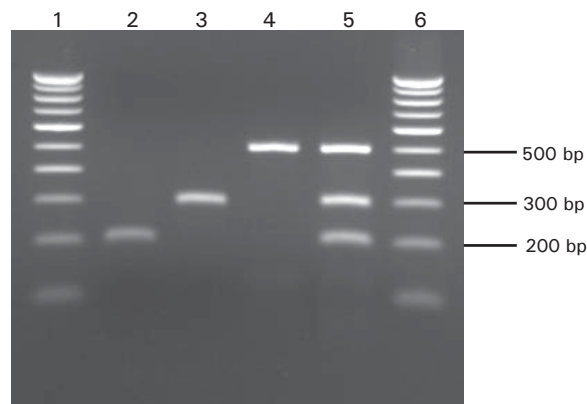
### Ordering Information:

Product	Size	Cat #
GeNei™ Multiplex PCR Teaching Kit (Consumables for 5 experiments)	1 Pack	107757

**Note:** UV transilluminator, thermal cycler and EtBr are required.

### Materials Provided:

- Taq DNA polymerase
- 10X Assay Buffer
- dNTP's Mix
- Template DNA
- Primer Set #1
- Primer Set #2
- Primer Set #3
- Nuclease free water
- 100 bp DNA Ladder (Ready to use)
- 2.5X Gel loading buffer
- Agarose
- Mineral oil
- 50X TAE
- PCR vials
- Instruction Manual



- Lane 1, 6 : 100 bp DNA Ladder  
 Lane 2 : Primer set I  
 Lane 3 : Primer set II  
 Lane 4 : Primer set III  
 Lane 5 : All the 3 primers