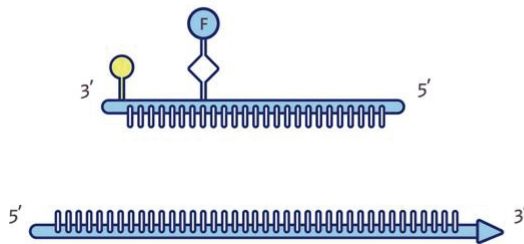


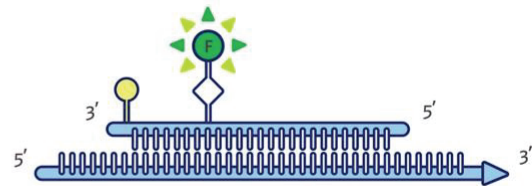
SimpleGT Probes© - Single-Labeled qPCR Probes for SNP Genotyping

metabion SimpleGT Probes© are the latest addition to our qPCR probes portfolio, producing diagnostic results by melting curve analysis, similar to the LightCycler® HybProbe system, but requiring only one single fluorescent probe instead of two.

A

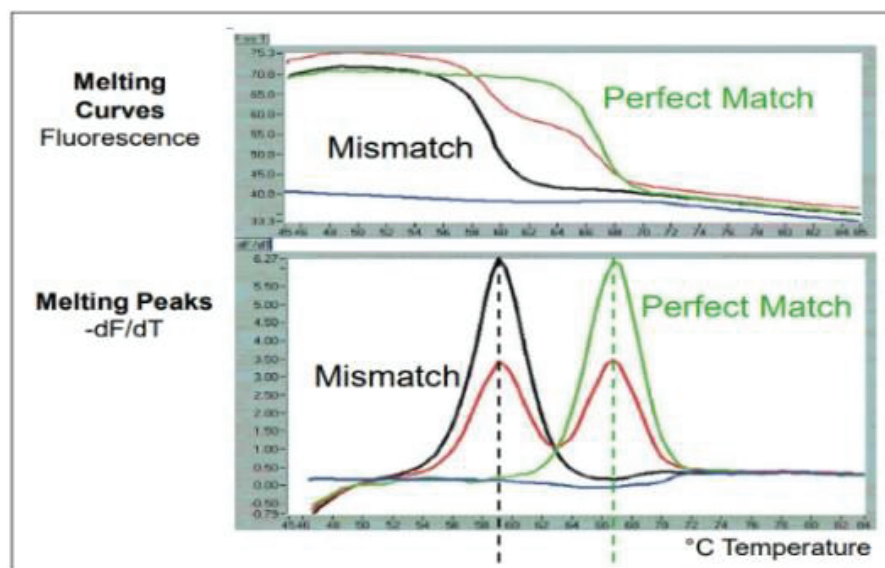


B



In solution, the fluorescence of a **SimpleGT Probe©** is quenched by a naturally occurring nucleotide the dye is attached to (A). Upon probe hybridization to its target, quenching is reduced and fluorescence increases (B). As a result, the **SimpleGT Probe©** emits more fluorescence than it does unhybridized.

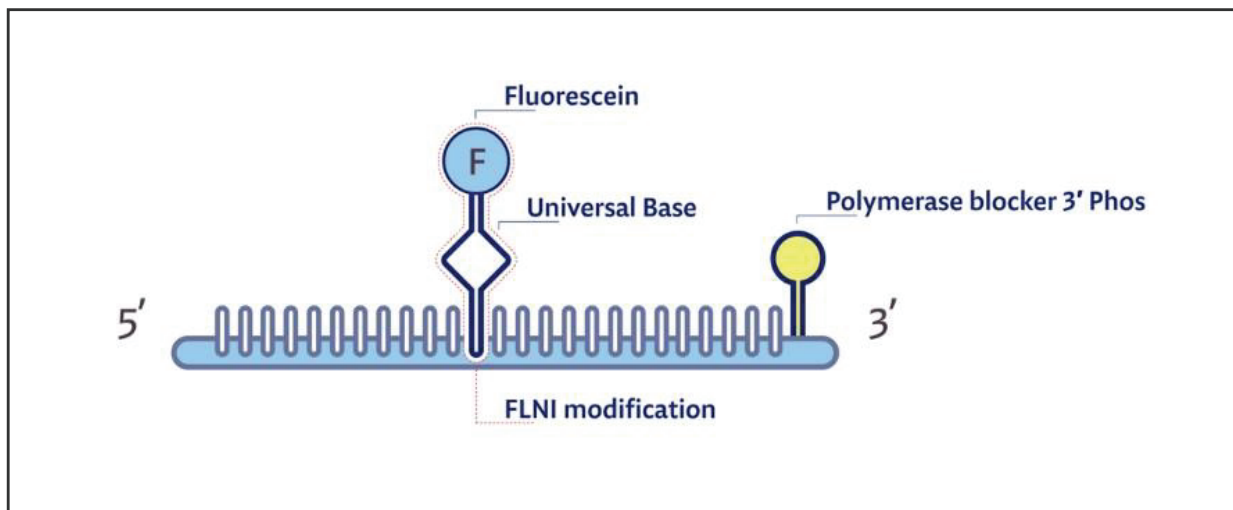
SimpleGT Probes© are designed to bind specifically to SNP-containing sequences. The stronger the hybridization, the higher the melting temperature; mutations like SNPs weaken binding stability of **SimpleGT Probes©**.



Key Features:

- Single-Labeled qPCR Probe Format - SLP Format as opposed to DLP Format.
- Single Probe System as opposed to HybProbes FRET system.
- Hybridization dependent melting curve analysis as opposed to endpoint analysis (Hybridization vs. Hydrolysis probes).
- Designed for applications on LightCycler® Platform, and applicable to a broad range of tech platforms performing melting curve analysis with similar parameters and settings like signal detection/acquisition at 530 nm.

Our Standard Portfolio



- Single Fluorescein labeled qPCR probe.
- Internal Fluo label for signal detection (acquisition at 530 nm).
- Phosphorylated 3' end to avoid elongation during PCR.
- HPLC purified and Mass Check verified to ensure highest quality.
- Recommended probe length 20 - 30 nts. Maximum length 40 nts.
- **SimpleGT Probe**© features by default:
 - Internal Fluo label attached to a universal base nucleotide. metabion proprietary terminology for this modification is FLNI.
 - 3' Phos for blocking Polymerase elongation of the probe.
 - No 5' modification!