MGB ECLIPSE® PROBES

GMP-manufactured qPCR components

ISO 13485 Certified products to help you transition your research to GMP manufactured

Begin your testing quickly

Cost-effective ISO 13485 manufactured products

We have combined our proven oligo manufacturing expertise and ISO 13485 certified production processes to deliver MGB Eclipse Probes and companion primers.

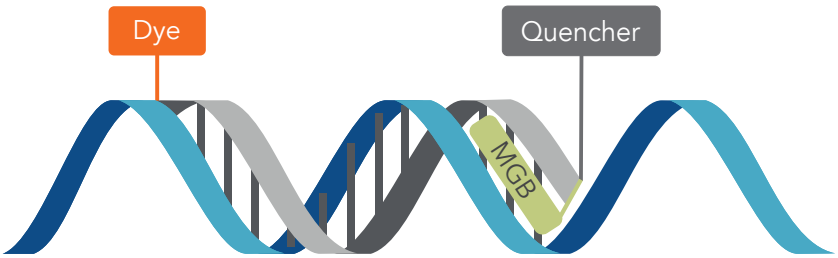


Figure 1. MGB Eclipse Probes. The incorporation of a minor groove binder (MGB) stabilizes probe-target hybridization and increases melting temperature, allowing the use of shorter probes which are better suited for allelic discrimination and targeting AT-rich regions in your qPCR assays.

Our range of fluorophore choices allows you to ensure compatibility with your instrument and more easily design your multiplex assays. If the fluorophore you need is not listed, contact us for a custom quote.

MGB ECLIPSE PROBES

- 10–30 bases in length
- FAM, HEX, TET, or Yakima Yellow® (Elitech Group) dyes available
- Final yields of 6, 20, or 50 nmol

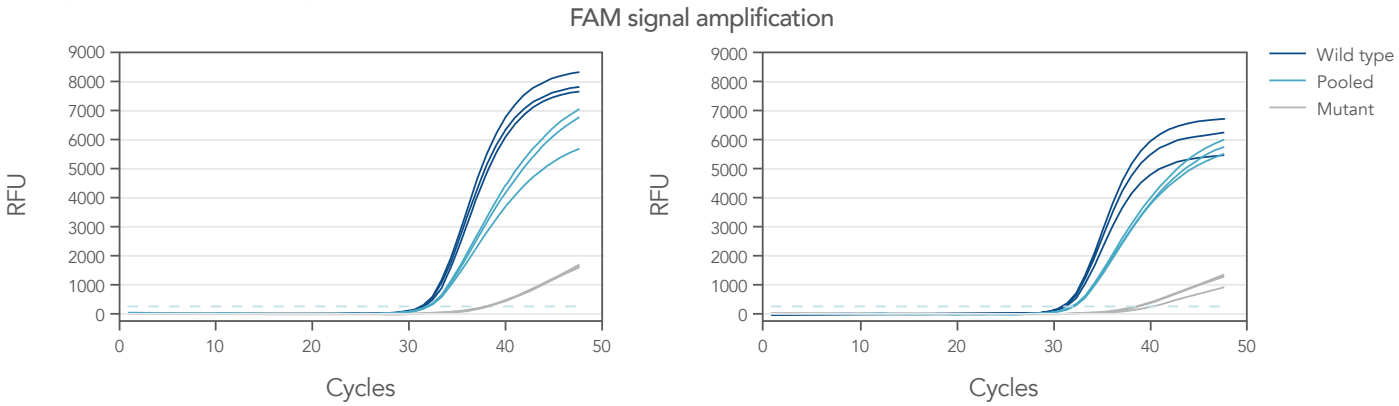
GMP COMPANION PRIMERS

- Standard desalt or HPLC purification
- Final yields of 25, 80, or 200 nmol

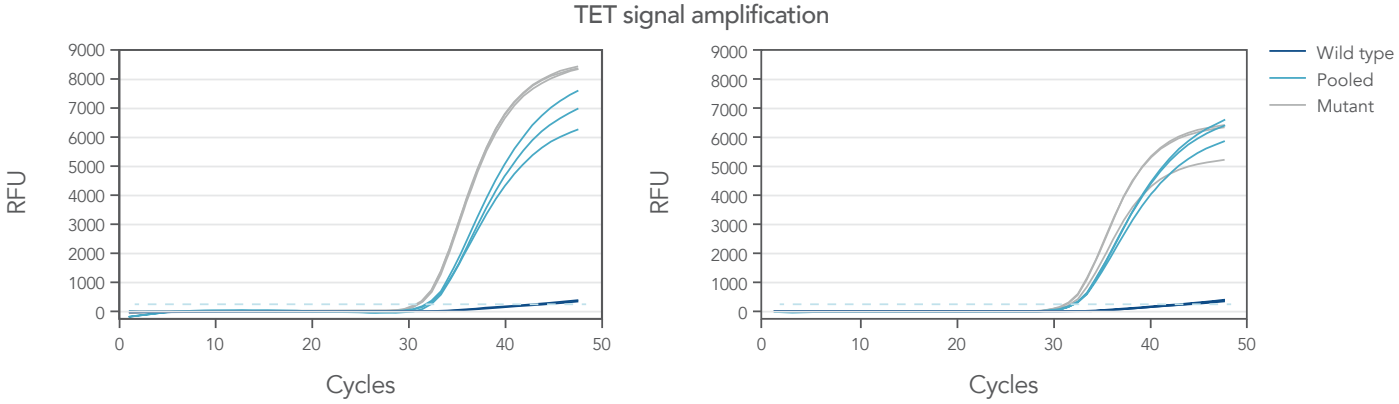
PERFORMANCE IN GENOTYPING APPLICATIONS

Assays with IDT MGB Eclipse Probes and companion primers demonstrate consistency to industry-standard assays when making genotyping calls for KRAS variants (Figure 2). End-point fluorescent signal intensities were similar or higher using MGB Eclipse Probes.

A. Amplification curves: wild type



B. Amplification curves: mutant



C. Genotyping calls

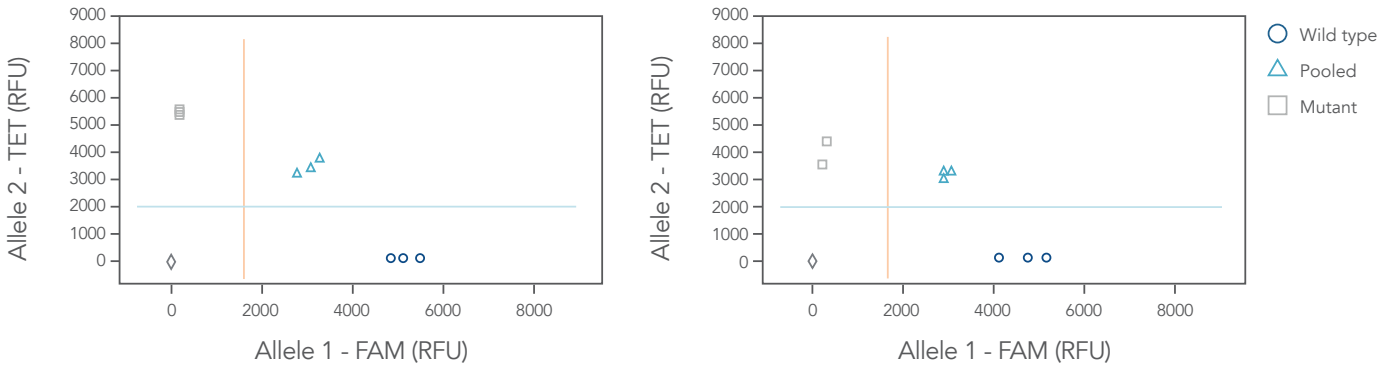


Figure 2. Equivalent results for assays with IDT MGB Eclipse Probes and assays for Research Use Only. KRAS G12R assays comprised of MGB Eclipse Probes (FAM dye—wild-type probe; TET dye—mutant probe) and primers manufactured by IDT or assays for Research Use Only were used. Reactions (10 µL) were run with 10^4 copies of wild-type, mutant, or pooled wild-type/mutant template (gBlocks™ Gene Fragments; IDT) and TaqMan® Gene Expression Master Mix (Thermo Fisher Scientific) on a CFX384 Touch™ Real-Time PCR Detection System (Bio-Rad). Cycling conditions were 3 min. 95°C; 50 x (10 sec. 95°C, 30 sec. 60°C). Amplification curves for (**A**) wild-type and (**B**) mutant alleles demonstrated comparable results for MGB Eclipse Probes from IDT (left) and assays for Research Use Only (right). (**C**) Clear genotyping calls were made for MGB Eclipse Probes from IDT (left) and assays for Research Use Only (right). *n* = 3.

> FOR MORE INFORMATION, VISIT **WWW.IDTDNA.COM/MGB**

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