



## High-Performance Double-Quenched Probes – HP DQPs – The Platinum Standard for qPCR Probes

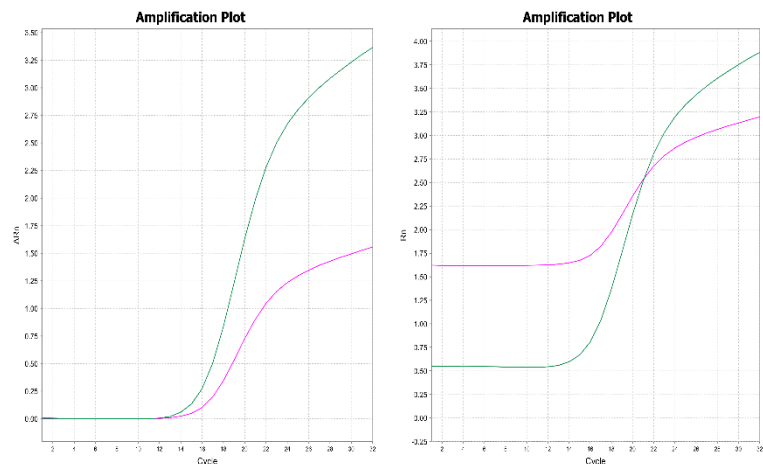
Explore **metabion's High-Performance Double-Quenched Probes (HP DQPs)** – optimized for use in real-time quantitative PCR, significantly enhancing assay performance by improved signal-to-noise **ratio through reduced** background and increased end-point fluorescence.

**High Performance Double Quenched Probes** have been developed to advance assay performance by

- **increased probe T<sub>m</sub>**
- **increased thermostability**
- **enhanced annealing efficiency**
- **reduced C<sub>q</sub> values**

to boost

- **diagnostic specificity**
- **diagnostic sensitivity**
- **signal intensity**



**Figure 1.** (A) Signal increase of a 28mer HP DQP (FAM-abMFQ-MFQ, *green*) compared to the single quenched FAM-BHQ<sup>®</sup>-1 equivalent (*pink*). (B) Starting fluorescence levels of single-quenched FAM-BHQ<sup>®</sup>-1 probe (*pink*) and HP DQPs (FAM-abMFQ-MFQ, *green*).

**HP DQPs** offer solutions specifically for challenging real-time quantitative PCR applications like

- **detection of low-abundance targets**
- **complex multiplex assays**
- **target sequence (AT-rich) conditioned necessity for longer probes (>25nts)**



**Upgrade your qPCR assays.**

**Quality to Trust – metabion!**

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