

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_m
- increased thermostability enhanced annealing
- efficiency
- reduced C_q values

to boost

- diagnostic specificity
- diagnostic sensitivity
- signal intensity

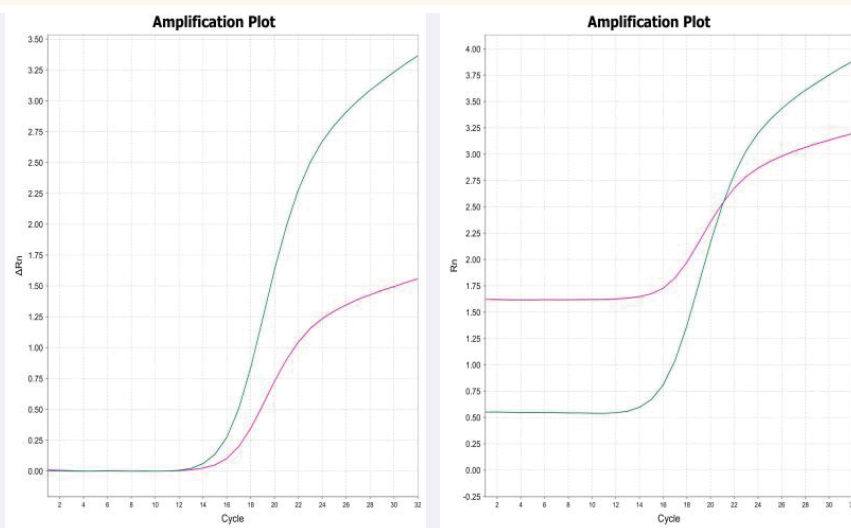


Figure 1. (A) Signal increase of a 28mer HP DQP (FAM-abMFQ-MFQ, green) compared to the single quenched FAM-BHQ®-1 equivalent (pink). (B) Starting fluorescence levels of single-quenched FAM-BHQ®-1 probe (pink) and HP DQPs (FAM-abMFQ-MFQ, green).

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)

