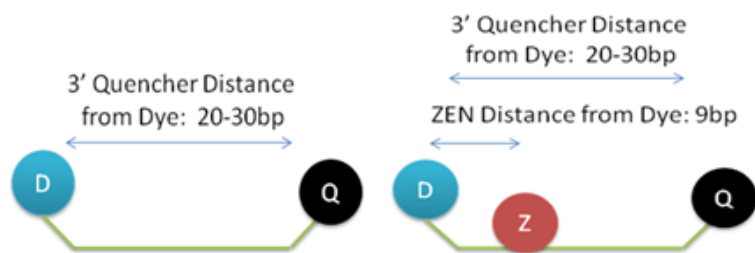


IDT: ZEN quencher

We would like to inform you that IDT has developed a *new internal ZEN quencher* which enables the production of double-quenched probes with less background and increased signal. Double-quenched probes contain a 5' FAM fluorophore, a 3' IBFQ quencher, and an internal ZEN quencher. While traditional probes consist of approximately 20-30 bases between the fluorophore and the quencher, the internal ZEN quencher decreases that length to only 9 bases.

This shortened distance, particularly when combined with the traditional 3' end quencher, leads to a much more thorough quenching with much less background and enables the use of much longer probes for designing in AT-rich target regions. In addition to the significantly decreased background, the double-quenched probes also have consistently reduced C_q values and improved precision when compared to traditional probes. Use of the double-quenched probes will allow users to experience both increased sensitivity and precision in their qPCR experiments.

We will be launching this product April 21, 2010. On April 21st our PrimeTime qPCR Assay that currently contains a 5' FAM-3' IAbk-FQ probe will be replaced with the Double-quenched probe containing 5' FAM fluorophore, a 3' IBFQ quencher, and an internal ZEN quencher.



We will continue to support the PrimeTime Probe containing 5' FAM- 3' IAbk-FQ and will add the Double-quenched probe containing 5' FAM fluorophore, a 3' IBFQ quencher, and an internal ZEN quencher to our product offerings.

The Zen quencher will be placed into the sequence automatically and will not be required to be added by the customer when ordering.

Catalog pricing is listed below which will be discounted under PrimeTime qPCR Probes and Assays section of your current Distributor agreement. The exception to this discount is that of the PrimeTime™ Mini Prb 5' 6-FAM™/ZEN™/3' IB®FQ which is not eligible for further discounts.

Please provide pricing for the custom PrimeTime Double Quenched Probes to be displayed on your portal and return to me as soon as possible. Until we receive this information the portal will display pricing as "Inquire".

PrimeTime qPCR Assay pricing for will remain unchanged and will not require new pricing.