

Chromofy™ A new dye for qPCR and HRM

Detect dsDNA in the FAM-channel

Chromofy is a monomeric asymmetric cyanine dye developed by TATAA Biocenter for use in qPCR applications. The dye has absorbance and emission wavelengths suitable for the FAM channel on most common real-time PCR instrumentation, and shows a strong fluorescence increase when binding to dsDNA. Chromofy can be used as an unspecific dye for real-time PCR applications or other applications where staining of dsDNA is wanted.

Chromofy™ in High-Resolution Melt

Chromofy has been demonstrated to function very well in High Resolution Melt to detect a difference of one single base in PCR products. Chromofy has also been used for High Resolution Melt methylation analysis and can detect down to 1% methylated DNA in unmethylated background.

Chromofy™ can be added to available mastermixes

Chromofy has been demonstrated to be compatible with several commercially available mastermixes and is added to the mix prior to performing the PCR-reaction. Chromofy will not inhibit the PCR and it is compatible with all qPCR platforms.

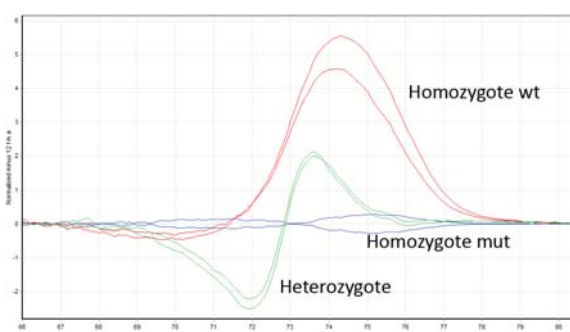


Figure 1: Chromofy was used in the Corbett Rotorgene 6000 to detect a mutation in the Factor V Leiden SNP. Homozygote wild type (G) and homozygous mutant (A) were readily distinguished.

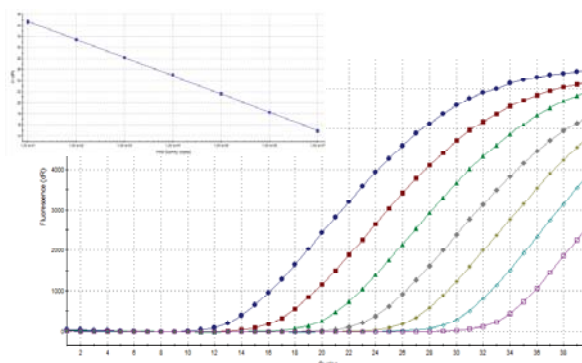


Figure 2: Standard curve with 100 % efficiency produced using Chromofy on Stratagene Mx3005.

