

THE NEW STANDARD

FOR dPCR CHIMERISM ANALYSIS

Digital PCR For Unparalleled Sensitivity

Digital PCR (dPCR) represents a technological refinement of the conventional qPCR method, providing exceptional sensitivity in detection of low-abundant templates. The crucial step consists in partitioning of the sample to thousands of nanoliter-sized droplets, allowing the PCR reaction to be carried out in each droplet individually. Absolute quantification of target DNA molecules is performed for every single droplet and Poisson statistics is applied to determine the initial quantity of template in the sample.

Due to its unparalleled sensitivity, dPCR is particularly suitable for precise and accurate chimerism analysis and it has been shown to predict relapse on average 17.5 days earlier when compared to qPCR (Valero-Garcia *et al.*, PLOS ONE, 2019). This substantial amount of time can play a key role in making major therapeutic decisions.



DigitalTRACE™ Assays allow for an accurate chimerism monitoring using the highly sensitive dPCR technology. All assays are formulated with a Reference Gene Assay which enables the percentage of target DNA component to be calculated.

DigitalTRACE™ ASSAYS

Exceptional Sensitivity

The DigitalTRACE™ Assays are designed for detection and absolute quantification of templates down to 0.05% minor DNA component



Excellent Predictive Accuracy

Earlier prediction of relapse by dPCR has a significant clinical potential, allowing for timely intervention and appropriate therapeutic action



Wide Coverage

The wide range of 80 INDEL Assays distributed across the human genome facilitates the choice of informative assays



HLA TRACE™ Assays for HLA LOH Monitoring by dPCR

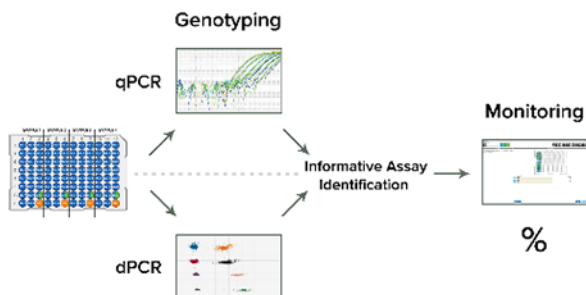
A set of DigitalTRACE™ HLA Assays is also available for the monitoring of the HLA loss events via dPCR



SENSITIVE CHIMERISM ANALYSIS WORKFLOW

The workflow is flexible and enables the choice from both qPCR and dPCR techniques to determine the genotype of the DNA samples. The quantification step is performed using the sensitive digital PCR.

The DigitalTRACE™ Assays have been validated using the main dPCR platforms, including QX-200 (Bio-Rad), QIAcuity (QIAGEN) and Naica (Stilla). Multi-color genotyping options available, together with sensitive quantification analysis.



„An exceptionally sensitive chimerism analysis supporting timely treatment decisions“

DigitalTRACE™ AND RELATED PRODUCT LIST



DigitalTRACE™ dPCR Assays

80 DigitalTRACE™ dPCR INDEL Assays for an exceptionally sensitive chimerism monitoring



HLA TRACE™ dPCR Assays

The HLA TRACE™ Assays enable to analyze the loss of HLA heterozygosity (HLA LOH) via dPCR



TRACE Analysis™ Software

The TRACE Analysis™ Software is designed for performing analysis of chimerism through an intuitive user interface. The software guides the user through assay setup, performs data analysis, generates reports and stores the data collected for samples over time

Validated for the most frequently used dPCR platforms



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