

dPCR Mutation Detection Assay

Validation Data Sheet

dPCR Mutation Detection Assay

ESR1: c.1387T>C (COSV 52784970)

Assay Catalog No.

DMH0001101

dPCR Instrument

QIAcuity digital PCR instrument

dPCR Master Mix

QIAcuity® MasterMix

Experimental Sample(s)

Synthetic DNA template

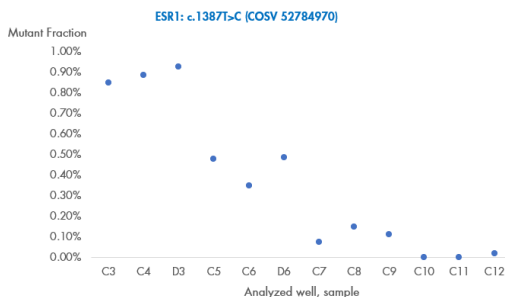


Figure 1. Mutation Frequency Analysis. Detection of mutation target (Green Channel, FAM) and wild-type reference target (Yellow Channel, HEX). Mutant DNA template was spiked into wild-type DNA background samples (~2000 copies/ μ L) for various mutation frequencies (C3,C4, D3: 1%; C5,C6,D6: 0.5%; C7–C9: 0.1%; C10–C12: 0%).

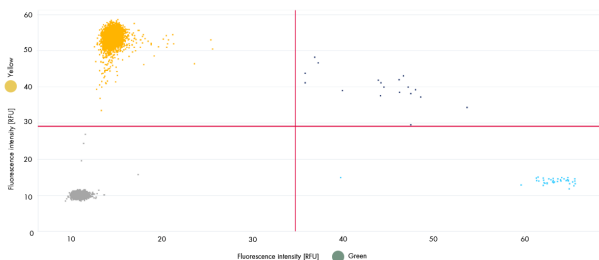


Figure 2. 2D Scatter Plot. Single-well data from sample with 1% mutant DNA template spiked into wild-type DNA background (Green Channel: mutation assay, X-axis; Yellow Channel: wild-type, Y-axis).