

dPCR Mutation Detection Assay

Validation Data Sheet

dPCR Mutation Detection Assay

ESR1: c.1607T>C (COSV52782930)

Assay Catalog No.

DMH0001104

dPCR Instrument

QIAcuity digital PCR instrument

dPCR Master Mix

QIAcuity® MasterMix

Experimental Sample(s)

Synthetic DNA template

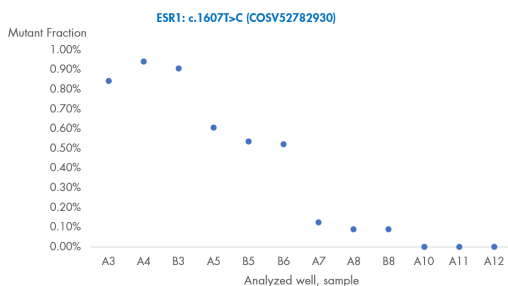


Figure 1. Mutation Frequency Analysis. Detection of mutation target (Green Channel, FAM) and wild-type reference target (Yellow Channel, HEX). Mutant DNA template was spiked into wild-type DNA background samples (~2000 copies/ μ L) for various mutation frequencies (A3,A4,B3: 1%; A5,B5,B6: 0.5%; A7,A8,B8: 0.1%; A10–A12: 0%).

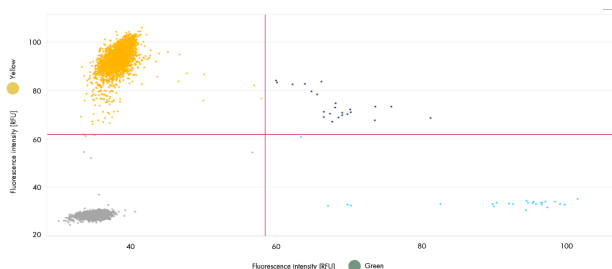


Figure 2. 2D Scatter Plot. Single-well data from sample with 1% mutant DNA template spiked into wild-type DNA background (Green Channel: mutation assay, X-axis; Yellow Channel: wild-type, Y-axis).