

dPCR Mutation Detection Assay

Validation Data Sheet

dPCR Mutation Detection Assay

ESR1: c.1610A>C (COSV52783938)

Assay Catalog No. DMH0001109

dPCR Instrument QIAcuity digital PCR instrument

dPCR Master Mix QIAcuity® MasterMix

Experimental Sample(s) Synthetic DNA template

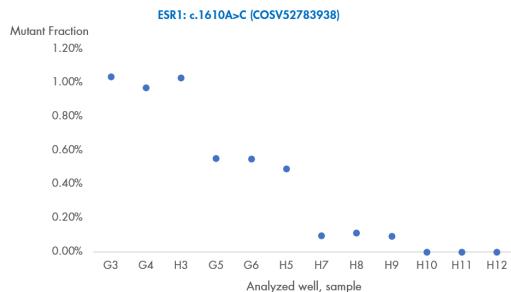


Figure 1. Mutation Frequency Analysis. Detection of mutation target (Green Channel, FAM) and wild-type reference target (Yellow Channel, HEX). Mutant DNA template was spiked into wild-type DNA background samples (~2000 copies/μL) for various mutation frequencies (G3, G4, H3: 1%; G5, G6, H5: 0.5%; H7–H9: 0.1%; H10–H12: 0%).

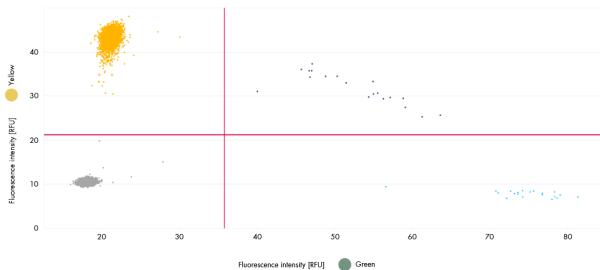


Figure 2. 2D Scatter Plot. Single-well data from sample with 1% mutant DNA template spiked into wild-type DNA background (Green Channel: mutation assay, X-axis; Yellow Channel: wild-type, Y-axis).