

dPCR Mutation Detection Assay

Validation Data Sheet

dPCR Mutation Detection Assay ESR1: c.1607T>A (COSV52795259)

Assay Catalog No.	DMH0001106
dPCR Instrument	QIAcuity digital PCR instrument
dPCR Master Mix	QIAcuity® MasterMix
Experimental Sample(s)	Synthetic DNA template

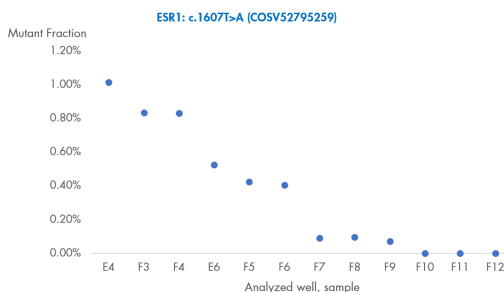


Figure 1. Mutation Frequency Analysis. Detection of mutation target (Green Channel, FAM) and wild-type reference target (Yellow Channel, HEX). Mutant DNA template was spiked into wild-type DNA background samples (~2000 copies/μL) for various mutation frequencies (E4,F3,F4: 1%; E6,F5,F6: 0.5%; F7–F9: 0.1%; F10–F12: 0%).

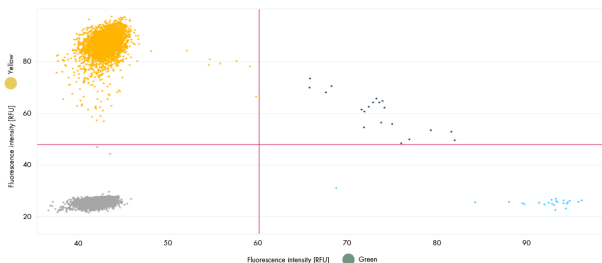


Figure 2. 2D Scatter Plot. Single-well data from sample with 1% mutant DNA template spiked into wild-type DNA background (Green Channel: mutation assay, X-axis; Yellow Channel: wild-type, Y-axis).