

Validation Data Sheet

dPCR CGT Assay

dPCR CGT assays	Psi (FAM, HEX, Cy5)
Assay catalog numbers	250313, 250314, 250315
dPCR instrument	QIAcuity Digital PCR System
dPCR master mix	QIAcuity MasterMix
Probe fluorophores and quencher	FAM, HEX: ZEN/Iowa Black Cy5: TAO/Iowa Black
Amplicon length	126 bp
Restriction enzyme compatibility	<i>EcoRI</i> , <i>HpaI</i> , <i>HpaII</i> , <i>PvuI</i> , <i>SmaI</i> , <i>XbaI</i> , <i>XhoI</i>

Description

The Psi assay is a wet-lab validated, 20x assay targeting the lentiviral psi (Ψ) packaging element.

Synthetic DNA sequence for positive controls

GGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAAGCGCGCACGGCAAGAG
GCGAGGGGCGGCGACTGGTGAGTACGCCAAAAATTTGACTAGCGGAGGCTAGAAGGAGA
GAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGGAGAATTAGATCGCGA

Sample data

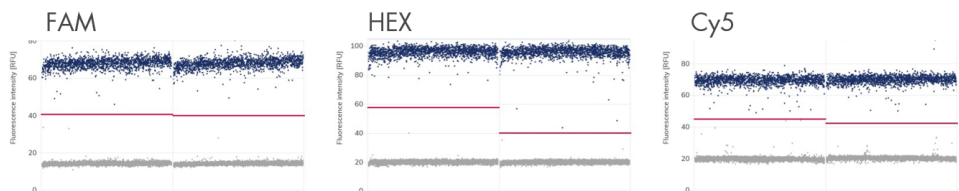
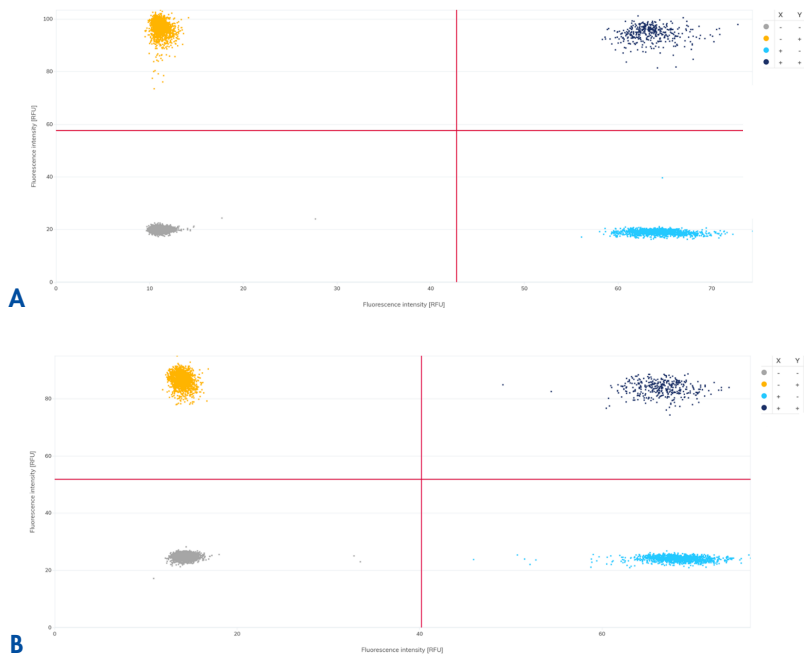


Figure 1. 1D scatter plot. Single-well data of Psi assays (Green, Yellow, and Crimson channel).



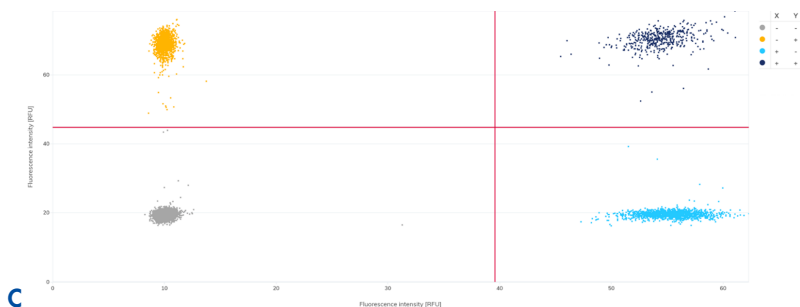


Figure 2. 2D scatter plot. Single-well data of (A) Psi assay (Hex channel, Y-axis) and Albumin assay (FAM channel, X-axis) or (B) Psi assay (Green channel, X-axis) and RPP30 assay (Yellow channel, Y-axis) or (C) Psi assay (Crimson channel, Y-axis) and RPL32 assay (FAM channel, X-axis) with DNA input.

Document Revision History

Date	Description
07/2025	Initial release

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual.

Trademarks: QIAGEN®, Sample to Insight®, QIAcuity®. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

07/2025 HB-3735-001 © 2025 QIAGEN, all rights reserved.

