

Validation Data Sheet

dPCR CGT Assay

dPCR CGT assays	5'LTR (FAM, HEX, Cy5)
Assay catalog numbers	250319, 250320, 250321
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	118 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 5'LTR assay is a wet-lab validated, 20x assay targeting the 5' lentiviral long terminal repeat (LTR) element.

Synthetic DNA sequence for positive controls

ATAAAGCTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCGTCTGTTGTGTGACTCTGGTAA
CTAGAGATCCCTCAGACCCTTTAGTCAGTGTGGAAATCTCTAGCAGTGGCGCCCGAAC
AGGGACTTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGAC

Sample data

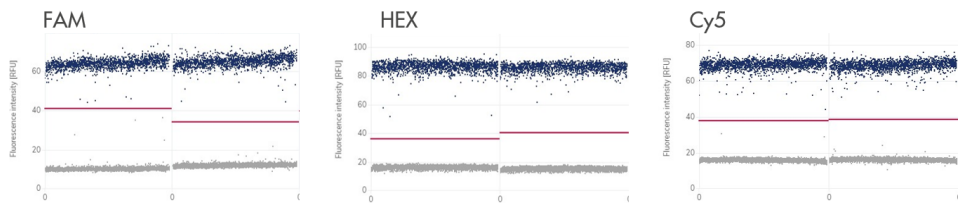
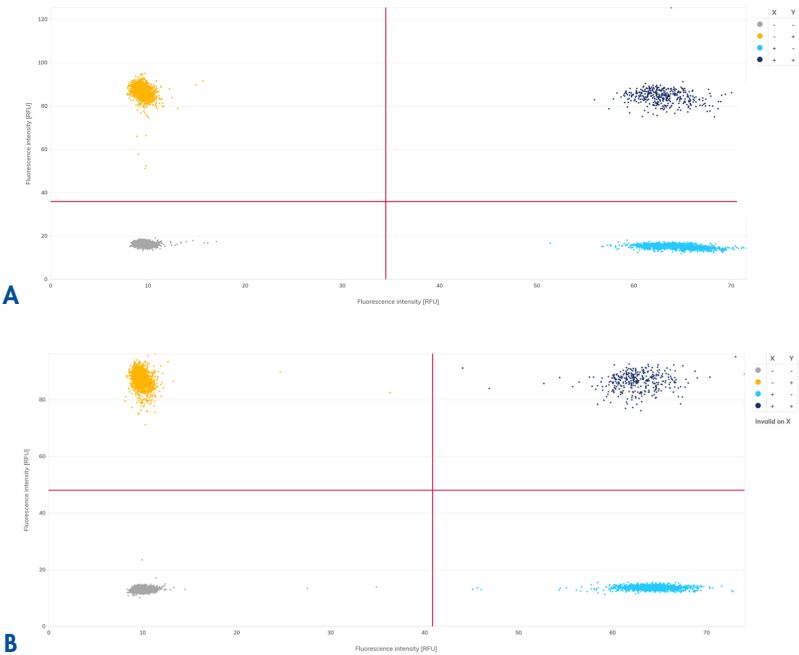


Figure 1. 1D scatter plot. Single-well data of 5’LTR assays (Green, Yellow, and Crimson channel).



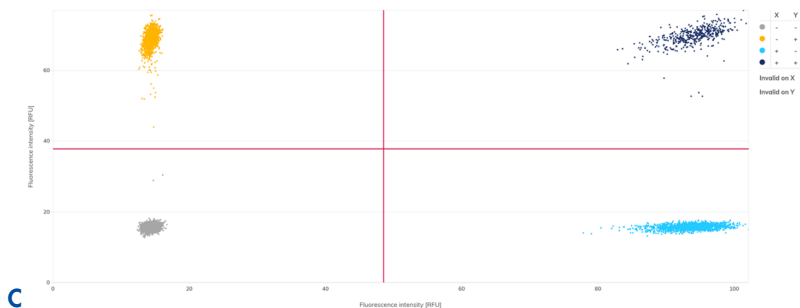


Figure 2. 2D scatter plot. Single-well data of (A) 5'LTR assay (Yellow channel, Y-axis) and Albumin assay (Green channel, X-axis) or (B) 5'LTR assay (Green channel, X-axis) and Albumin assay (Yellow channel, Y-axis) or (C) 5'LTR assay (Crimson channel, Y-axis) and Albumin assay (Yellow channel, X-axis) 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-3732-001 © 2025 QIAGEN, all rights reserved.	

