

Validation Data Sheet

dPCR CGT Assay

dPCR CGT assays	RPL32 (FAM, HEX, Cy5)
Assay catalog numbers	250306, 250307, 250308
dPCR instrument	QIAcuity Digital PCR System
dPCR master mix	QIAcuity MasterMix
Probe fluorophores and quencher	FAM, HEX: ZEN/lowa Black Cy5: TAO/lowa Black
Amplicon length	90 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 RPL32 assay is a wet-lab validated, 20x assay targeting the gene encoding for 60S ribosomal protein L32.

Synthetic DNA sequence for positive controls

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AGAATGCTTGTTGGGGAATTC AAGGTGTTTCCTTTGCTGAAGGAGGTGACTTGGTCTTCT  
AAGTGTAGAGACCCAAGACCAGGAAAAGACTGCTTTGTGAACACTGCAATAATAGCCACT  
TTCCACTACTACAATATCCT
```

Sample data

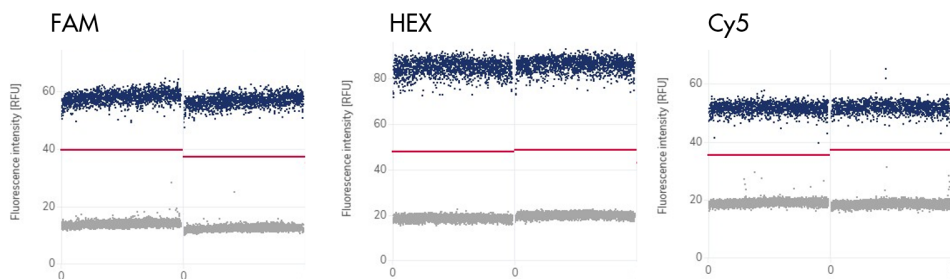
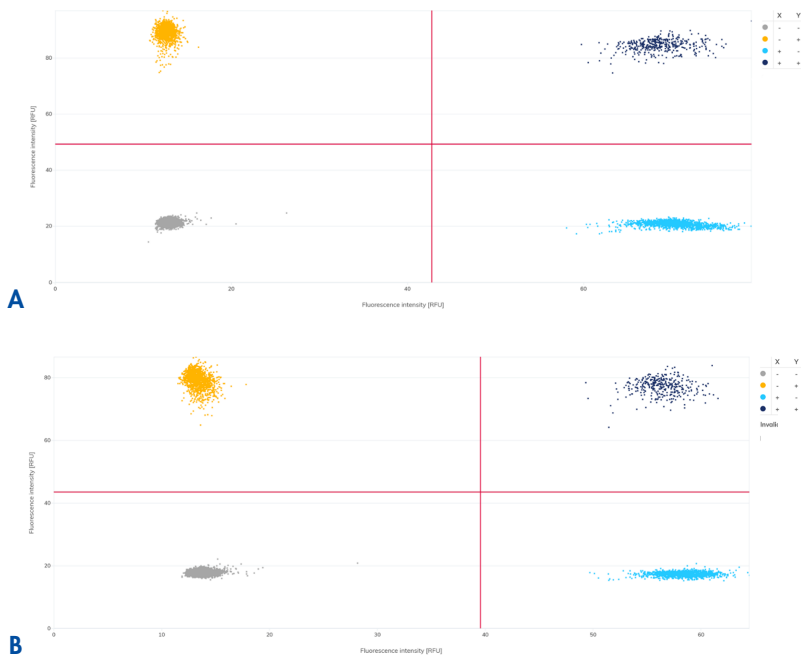


Figure 1. 1D scatter plot. Single-well data of RPL32 assay (Green, Yellow, and Crimson channel).



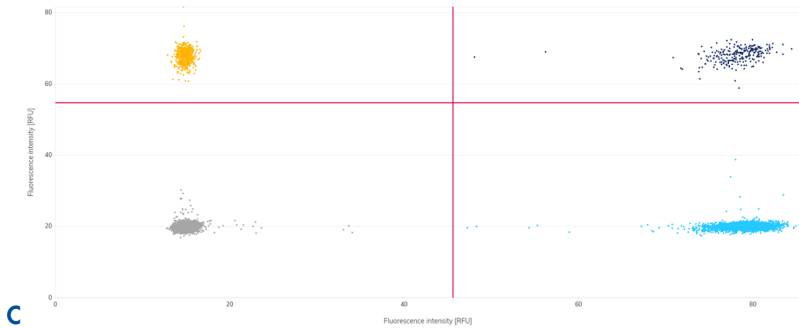


Figure 2. 2D scatter plot. Single-well data of **(A)** RPL32 assay (Hex channel, Y-axis) and RRE assay (FAM channel, X-axis) or **(B)** RPL32 assay (Green channel, X-axis) and Kan^R/Neo^R assay (Yellow channel, Y-axis) or **(C)** RPL32 assay (Crimson channel, Y-axis) and 5'LTR assay (FAM channel, X-axis) with DNA input.

Document Revision History

Date	Description
07/2025	Initial release

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