

## Validation Data Sheet

# dPCR CGT Assay

dPCR CGT assays	RPP30 (FAM, HEX, Cy5)
Assay catalog numbers	250303, 250304, 250305
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	107 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>

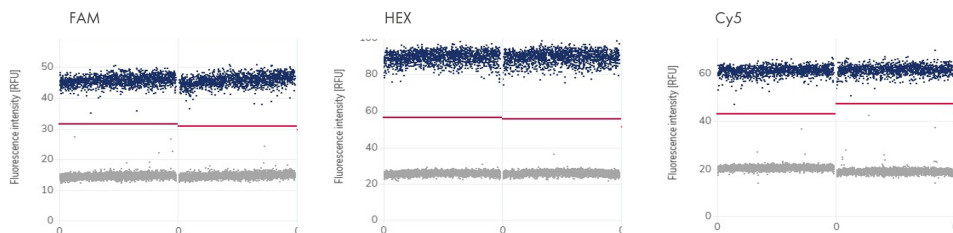
## Description

The RPP30 assay is a wet-lab validated, 20x assay targeting the Ribonuclease P protein subunit p30, encoded by the RPP30 gene sequence.

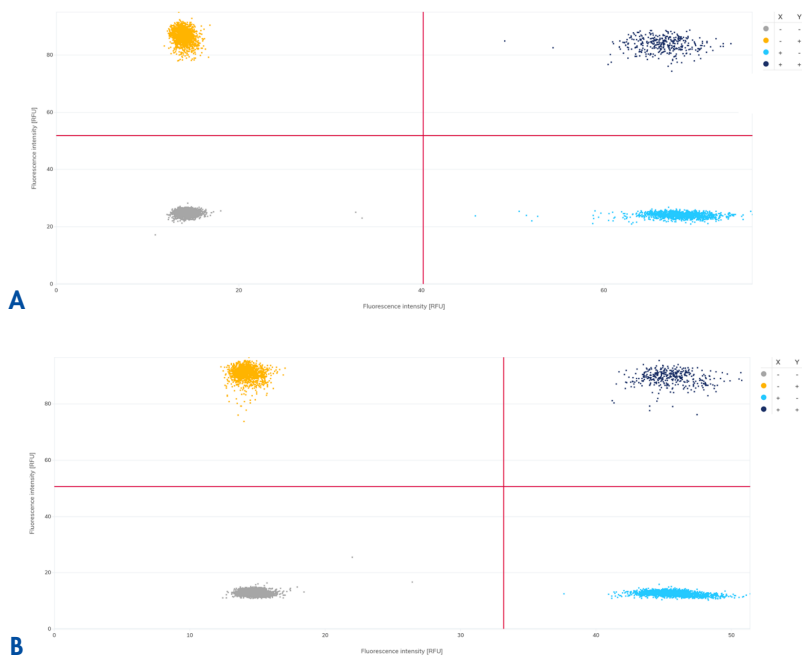
## Synthetic DNA sequence for positive controls

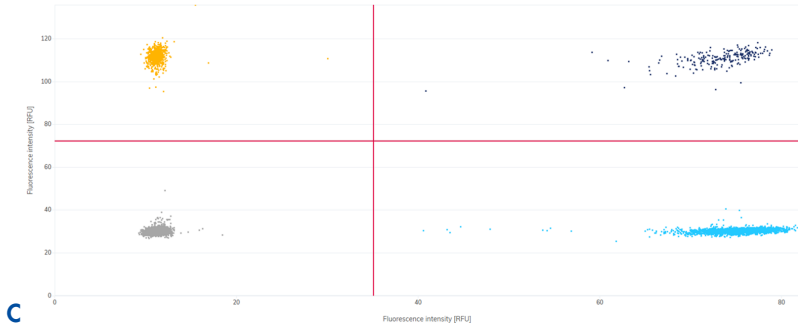
```
GACCAATTA AAAATTTTAACTAGATTAACAATTATTGTCTCGGATCCATCTCACTGCAATG
TTTTGGTAAGTTAATTATTTTCTTCTCCTTTTGGCTTTGTGAGTTGTATTGATTAAT
GTTGAACAATGTTGCATTTTGTCTTCCC
```

# Sample data



**Figure 1. 1D scatter plot.** Single-well data of RPP30 assays (Green, Yellow, and Crimson channel).





**Figure 2. 2D scatter plot.** Single-well data of **(A)** RPP30 assay (Hex channel, Y-axis) and Psi assay (FAM channel, X-axis) or **(B)** RPP30 assay (Green channel, X-axis) and RRE assay (Yellow channel, Y-axis) or **(C)** RPP30 assay (Crimson channel, Y-axis) and 5'LTR assay (Yellow channel, X-axis) with DNA input.

## Document Revision History

Date	Description
07/2025	Initial release

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