

Validation Data Sheet

dPCR CGT Assay

dPCR CGT assays	Kan ^R /Neo ^R (FAM, HEX)
Assay catalog numbers	250311, 250312
dPCR instrument	QIAcuity Digital PCR System
dPCR master mix	QIAcuity MasterMix
Probe fluorophores and quencher	FAM, HEX: ZEN/Iowa Black
Amplicon length	105 bp
Restriction enzyme compatibility	<i>EcoRI</i> , <i>HpaI</i> , <i>PvuI</i> , <i>SmaI</i> , <i>XbaI</i> , <i>XhoI</i>

Description

The Kan^R/Neo^R assay is a wet-lab validated, 20x assay targeting a gene sequence that confers resistance to kanamycin/neomycin.

Synthetic DNA sequence for positive controls

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GATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGC
TTTTCTGGATTTCATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCG
TTGGCTACCCGTGATATTGCTGAAG
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Sample data

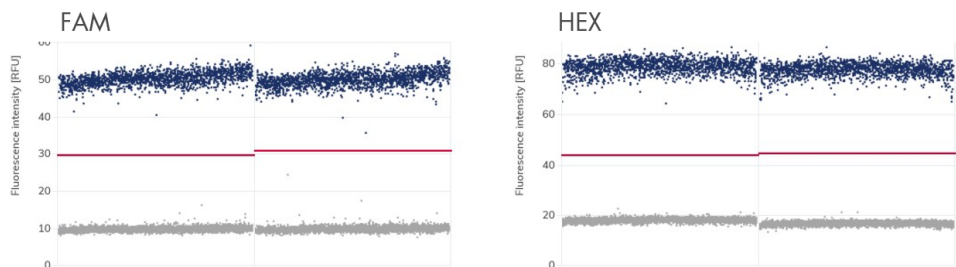


Figure 1. 1D scatter plot. Single-well data of Kan^R/Neo^R assays (Green and Yellow channel).

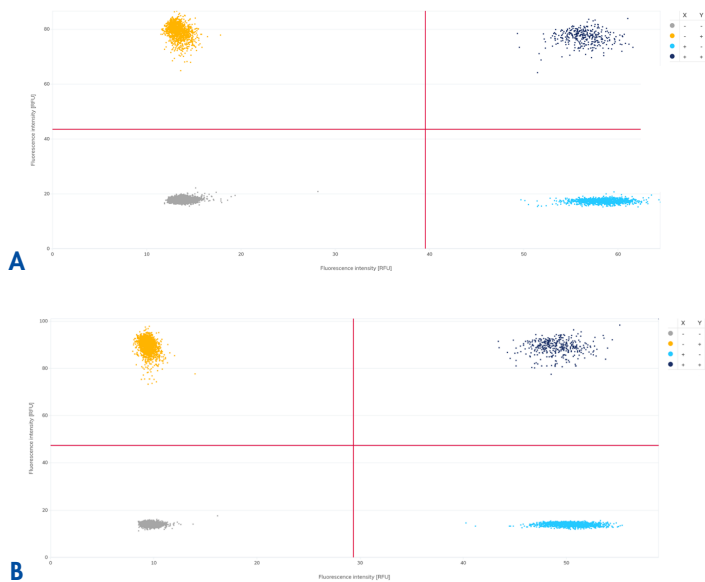


Figure 2. 2D scatter plot. Single-well data of (A) Kan^R/Neo^R assay (Hex channel, Y-axis) and RPL32 assay (FAM channel, X-axis) or (B) Kan^R/Neo^R assay (Green channel, X-axis) and Albumin assay (Yellow channel, Y-axis) with DNA input.

Document Revision History

Date	Description
07/2025	Initial release

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