

## Validation Data Sheet

# dPCR CGT Assay

dPCR CGT assays	bGH poly A (FAM, HEX, Cy5)
Assay catalog numbers	250233, 250234, 250235
dPCR instrument	QIAcuity Digital PCR System
dPCR master mix	QIAcuity Probe PCR Kit
Probe fluorophores and quencher	FAM, HEX: ZEN/lowa Black Cy5: TAO/lowa Black
Amplicon length	70 bp
Restriction enzyme compatibility	<i>MspI</i> , <i>HpaII</i> , <i>SmaI</i> , <i>HaeIII</i>

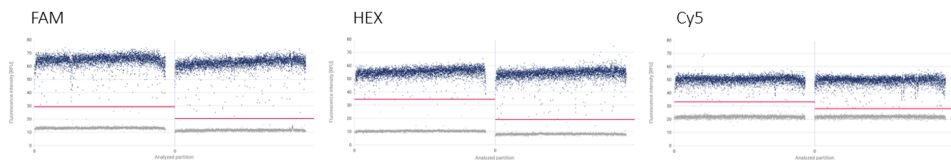
## Description

The bGH poly A assay is a wet-lab validated, 20x assay targeting the bovine growth hormone polyadenylation signal sequence.

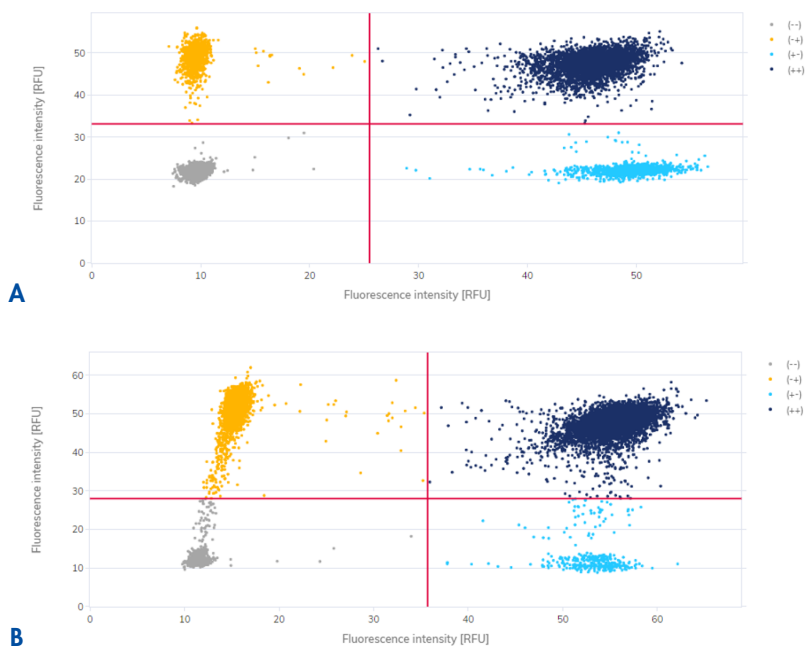
## Synthetic DNA sequence for positive controls

```
ATATCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGCCCTCCCCCGTGCCTT  
CCTTGACCCTGGAAGGTGCCACTCCCCTGTCCTTTCCATAAAAATGAGGA
```

## Sample data



**Figure 1. 1D scatter plot.** Single-well data of bGH poly A assays (Green, Yellow, and Crimson channel) on lysed adeno-associated virus (AAV) sample.





**Figure 2. 2D scatter plot.** Single-well data of **(A)** bGH poly A assay (Crimson channel, Y-axis) and CMV promoter assay (Yellow channel, X-axis) or **(B)** bGH poly A assay (Green channel, X-axis) and ITR assay (Yellow channel, Y-axis) or **(C)** bGH poly A assay (Yellow channel, X-axis) and CMV promoter assay (Crimson channel, Y-axis) with AAV2 DNA input.

## Document Revision History

Date	Description
06/2022	Initial release
05/2025	Updated description for the 1D scatter plot.

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