



## Certificate of Analysis

Verified by:  
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Quality Release date:  
Dec 12, 2016

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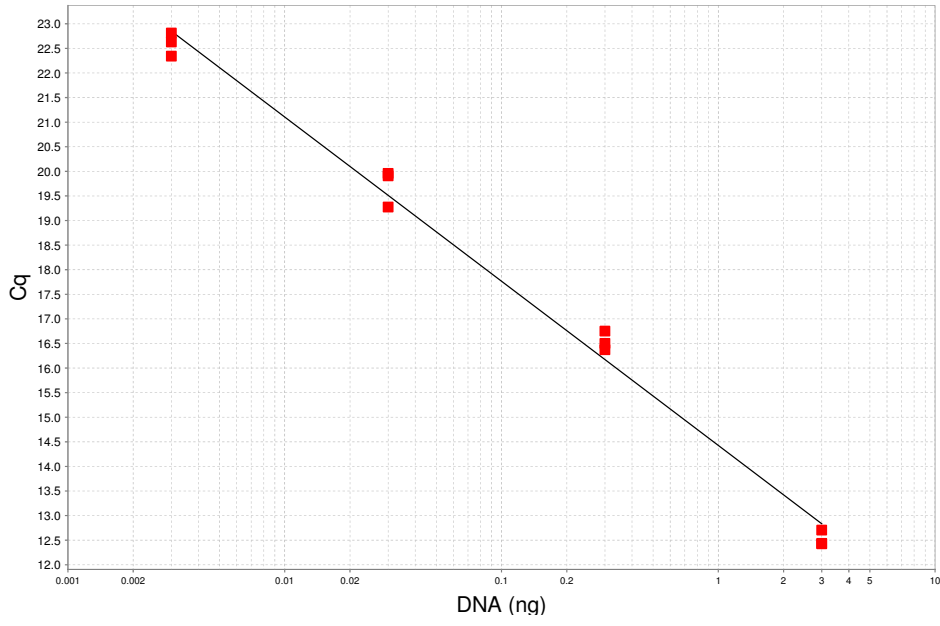
Product Name: **PCR Master Mix 2X**  
Catalog Num: R02100  
Lot Num: 4181021  
Analysis Date: Dec 12, 2016  
Expiration Date: Dec 12, 2018  
Storage: Store at -20 °C

### Functional Testing\*

Test	Specification	Results
Lambda assay efficiency	90-110%	PASS
Lambda assay R <sup>2</sup>	>0.990	PASS

\* Functional testing—Lambda assay efficiency and R<sup>2</sup> was determined using lambda phage genomic DNA as template and Chai Green. Efficiency was determined through evaluation of serial dilutions of DNA template and primers that amplified a 200 bp product using cycling conditions of 3 min @ 95 °C, 40 x (15 s @ 95 °C, 60 s @ 60 °C).

Standard Curve



Lambda Assay using Chai Green

$$y = -3.339 (x) + 14.428, R^2 = 0.991$$