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Product: PrimeTime Gene Expression Master Mix, 5 mL

Product number: 1055772

Kit batch number: 0000435227

Master mix lot number: 0000434874

Expiration date: 2021-FEB-25

Reference dye lot number: 0000412888

Expiration date: 2021-MAR-28

Test	Specification	Results
	Functional testing*	
Master mix is tested in single	eplex and duplex assays using nucleic acid temp	olates.
Singleplex efficiency	90–110%	Pass
Singleplex R ²	>0.990	Pass
Duplex efficiency	90–110%	Pass
Duplex R ²	>0.990	Pass
Cq difference singleplex vs. duplex	C _q difference ≤0.50	Pass
Antibody-mediated <i>Taq</i>	<5% increase in fluorescence over 10 min at	Pass
polymerase inactivation [†]	60°C	
	Analytical testing	
рН	8.40 ±0.10 pH Units	Pass
dNTP concentration	3.2 ±0.4 mM	Pass
RNase contamination [‡]	<1 ng/mL RNase A	Pass
	<12.5 ng/mL RNase T1	
	<70 ng/mL RNase I	
DNase contamination§	<2 U/µL	Pass
ss exonuclease activity	90-110% normalized fluorescence at 24 hrs	Pass
ds exonuclease activity	90-110% normalized fluorescence at 24 hrs	Pass
E. coli DNA contamination	≤10 copies/µL	Pass

^{*} Functional testing: efficiency and R² determined through evaluation of serial dilutions of cDNA template (50–0.0032 ng cDNA per rxn) using PrimeTime Assays (one FAM-ZEN and one HEX-ZEN assay) in both singleplex and duplex reactions using cycling conditions of 3 min. 95°C, 45 x (5 sec. 95°C, 30 sec. 60°C).

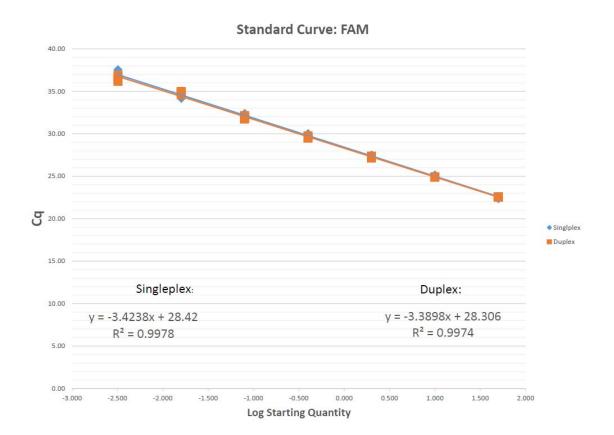
[†] Polymerase inhibition: measured by incubation of FAM-labeled substrate with master mix for 10 min at 60°C.

[‡] RNase contamination: measured using IDT RNaseAlert® reagents.

[§] DNase contamination: measured using IDT DNaseAlert reagents.

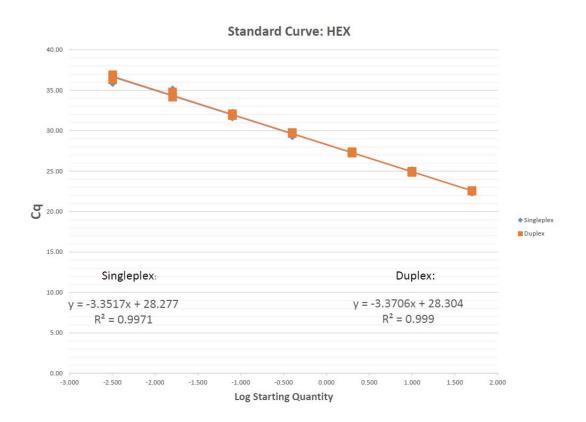


Standard curve (FAM-ZEN-based assay) – singleplex and duplex





Standard curve (HEX-ZEN-based assay) – singleplex and duplex



Storage: Store PrimeTime Gene Expression Master Mix in a sealed container at -20° C. Store Reference Dye in a sealed container at -20° C.

Verified by: Ekaterina Carlson **Quality release date:** 2020-JAN-30

IDT verifies that the information contained herein is true and correct to the best of our knowledge. This document was produced electronically and is valid without signature.

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