

Product: PrimeTime™ Gene Expr Master Mix, 25 mL

Product number: 1055771

Kit batch number: 0000435193

Master mix lot number: 0000434874

Expiration date: 2021-FEB-25

Reference dye lot number: 0000423986

Expiration date: 2021-NOV-04

Test	Specification	Results
Functional testing*		
Master mix is tested in singleplex and duplex assays using nucleic acid templates.		
Singleplex efficiency	90–110%	Pass
Singleplex R²	>0.990	Pass
Duplex efficiency	90–110%	Pass
Duplex R²	>0.990	Pass
C_q difference singleplex vs. duplex	C _q difference ≤0.50	Pass
Antibody-mediated Taq polymerase inactivation†	<5% increased fluorescence over 10 min at 60°C	Pass
Analytical testing		
pH	8.40 ±0.10 pH units	Pass
dNTP concentration	3.2 ±0.4 mM	Pass
RNase contamination‡	<1 ng/mL RNase A <12.5 ng/mL RNase T1 <70 ng/mL RNase I	Pass
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
<i>E. coli</i> DNA contamination	≤10 copies/μL	Pass

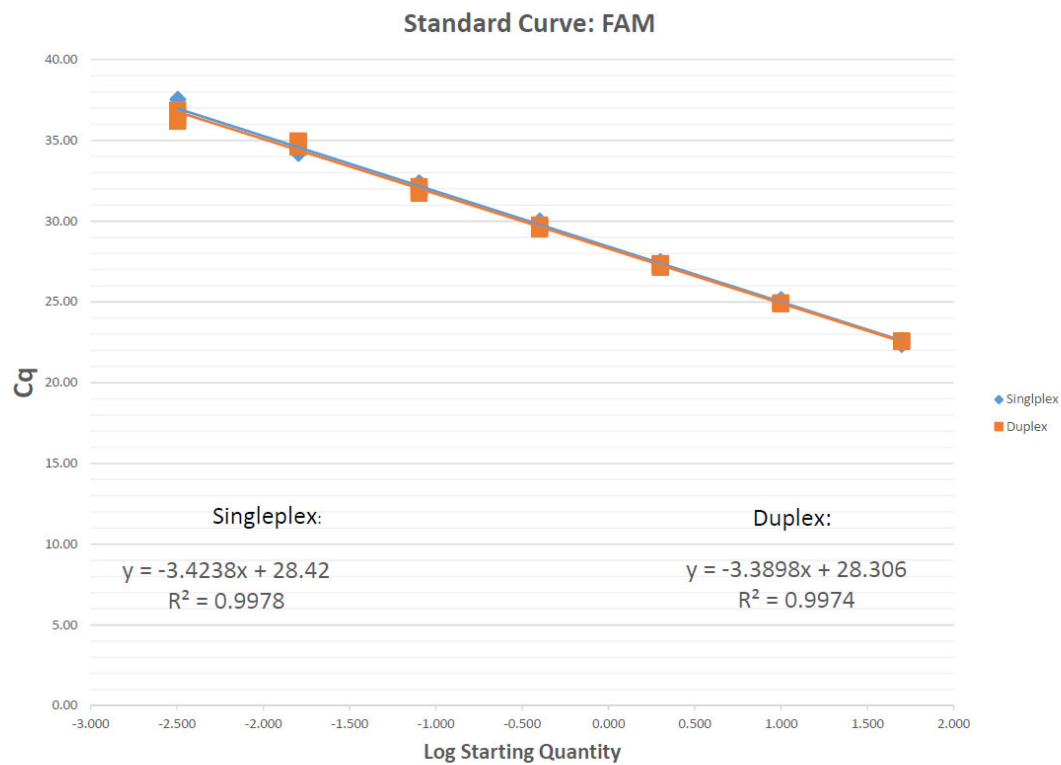
* Functional testing: efficiency and R² determined through evaluation of serial dilutions of cDNA template (50–0.0032 ng cDNA per rxn) using PrimeTime Assays (one FAM-ZEN and one HEX-ZEN assay) in both singleplex and duplex reactions using cycling conditions of 3 min. 95°C, 45 x (5 sec. 95°C, 30 sec.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

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

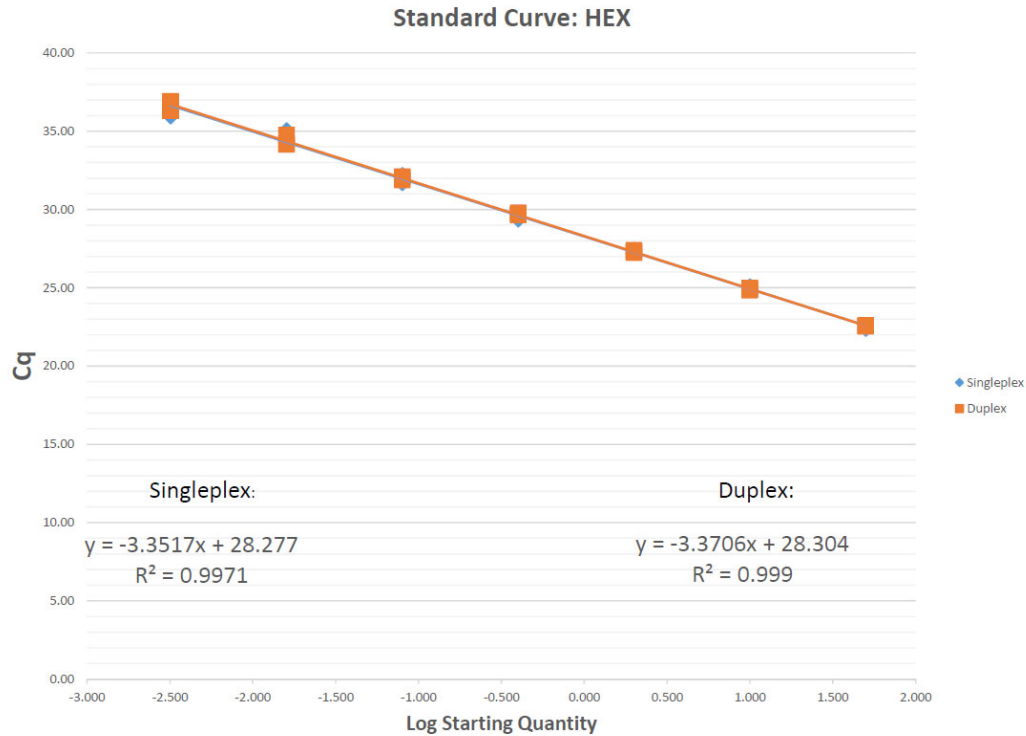
‡ RNase contamination: measured using IDT RNaseAlert® reagents.

§ 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-27

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.

PrimeTime, ZEN, DNaseAlert, and IDT are trademarks of Integrated DNA Technologies, Inc.
RNaseAlert is a trademark of Life Technologies.