



Certificate of Analysis

Product Description

Product Name: Immortalized Human Cardiomyocytes - SV40
 MasterMix Used: Kodaq MasterMix (Cat# G001, Lot# AB123)
 Bestaq MasterMix (Cat# G002, Lot# AB123)
 Taq MasterMix (Cat# G003, Lot# AB123)

Cell Type Characterization

Gene	Cell Type	Results	
GAPDH	House-Keeping	Positive	ABCD EFG GAPDH Size 863bp 188bp 208bp HUK Size 536 bp
ABCD	Cardiomyocytes	Negative	
EFG	Cardiomyocytes	Positive	
HIJK	Cardiomyocytes	Positive	

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Please contact a technical service representative for more information

Notes:

- If **abm** is designing primers, primer information will be included (please refer to pg 2). If the first primer fails, **abm** will re-design another primer free of charge for a maximum of two primers.
- If customer is providing primer design, only pg 1 will be provided. Customer may submit a maximum of two primer designs per marker.
- **abm** will attempt with three MasterMixes (Kodaq, Bestaq, Taq) per primer.
- Please note that this is a sample report only, final details dependent on final order.

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Primer Design

Human ABCD (NM_123456.4)

Forward Primer:

5'-position: 74

Length: 19

Sequence: 5'-GATGTCATATGCTTCCACG-3'
3'-GCACCTTCGTATACTGTAG-5'

Tm (basic): 58.3 °C

Tm (salt): 57.3 °C

Tm (NN): 58.9 °C

GC %: 52.6 %

3'-tail GC %: 42.9 %

dG: -35.1 kcal/mol

3'-tail dG: -11.4 kCal/mol

Reverse Primer:

5'-position: 609

Length: 20

Sequence: 5'-CATATAGCCTCTGTGGCCTG-3'
3'-GTCCGGTGTCTCCGATATAC-5'

Tm (basic): 60.0 °C

Tm (salt): 58.4 °C

Tm (NN): 58.2 °C

GC %: 50.0 %

3'-tail GC %: 42.9 %

dG: -36.5 kcal/mol

3'-tail dG: -12.1 kCal/mol

Primer pair properties:

Length difference: 1

Tm (basic) difference: 2.0 °C

Tm (salt) difference: 1.1 °C

Tm (NN) difference: 0.6 °C

GC % difference: 2.6 %

PCR Product:

Position: 74 - 609

Length: 536 bp

GC%: 55.8 %

Tm(product): 81.5 °C

Tm(annealing): 59.7 °C