# sam_2023-12-10_09-26-24_Connect.pcrd

12/11/2023 14:42

## Report Information

**User:** BioRad/sam
**Data File Name:** sam_2023-12-10_09-26-24_Connect.pcrd
**Data File Path:** C:\Users\Samb\Downloads\20231210-qpcr
**Well Group Name:** All Wells
**Report Differs from Last Save:** No

## Run Setup

### Run Information

**Run Date:** 12/10/2023 09:26
**Run User:** sam
**Run Type:** User-defined
**Plate File:** 20231213-qpcr-CAct_test-plate.pltd
**ID:**
**Notes:**
**Sample Volume:** 20
**Temperature Control Mode:** Calculated
**Lid Temperature:** 105
**Base Serial Number:** BR006896
**Optical Head Serial Number:** 788BR07000

### Protocol

**1:** 98.0°C for 3:00
**2:** 98.0°C for 0:10
**3:** 60.0°C for 0:30
Plate Read
**4:** GOTO 2, 39 more times
**5:** Melt Curve 65.0°C to 95.0°C: Increment 0.5°C 0:05
Plate Read

### Plate Display

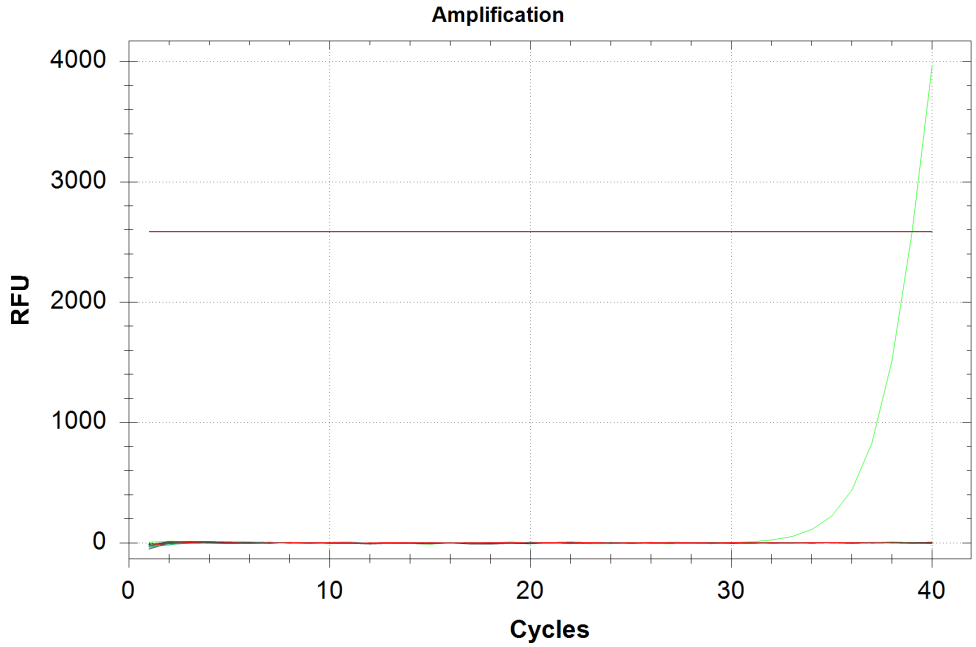
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | Unk-1 CAct 1000pg | Unk-1 CAct 1000pg | Unk-1 CAct 1000pg | Unk-2 CAct 100pg | Unk-2 CAct 100pg | Unk-2 CAct 100pg | Unk-3 CAct 10pg | Unk-3 CAct 10pg | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR |
| B | Unk-3 CAct 10pg | NTC-1 CAct | NTC-1 CAct | NTC-1 CAct | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR |
| C | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR |
| D | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR |
| E | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR |
| F | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR |

## Plate Display

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR |
| H | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR | *Unk SYBR |

# Quantification

**Step #:** 3
**Analysis Mode:** Target
**Cq Determination:** Single Threshold
**Baseline Method:**
CAct: Auto Calculated
**Threshold Setting:**
CAct: 2584.45, Auto Calculated

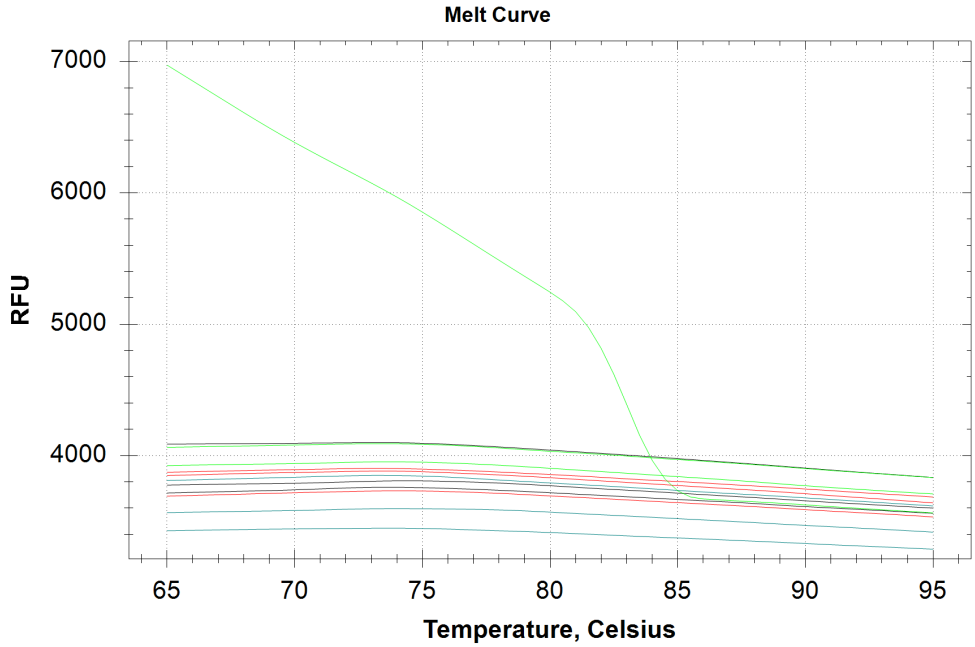


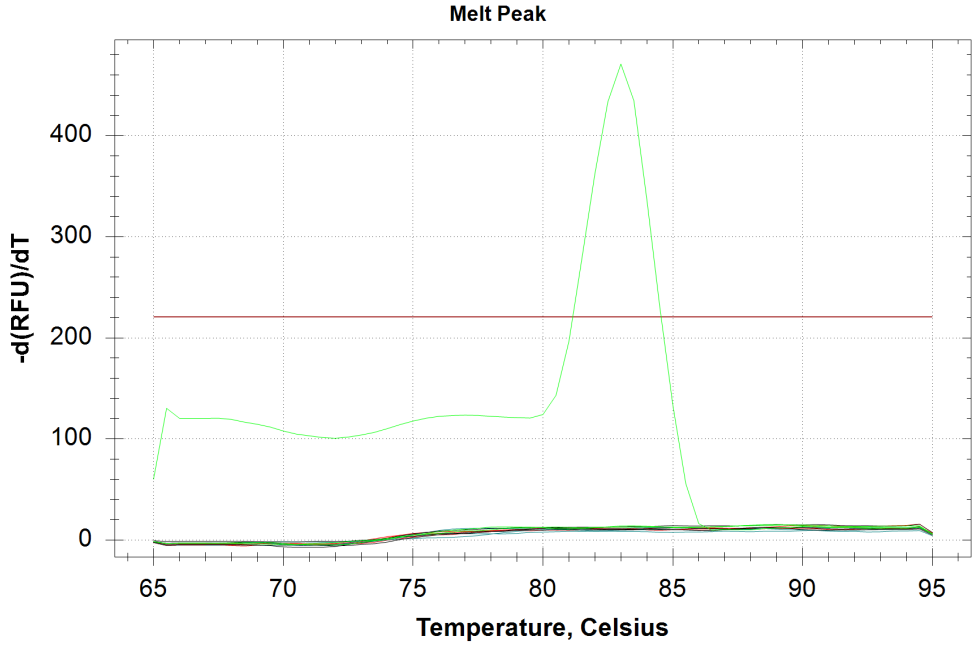

## Quantification Data

| Well | Fluor | Target | Content | Sample | Cq | Cq Mean | Cq Std. Dev |
|---|---|---|---|---|---|---|---|
| A01 | SYBR | CAct | Unkn-1 | 1000pg | 39.00 | 39.00 | 0.000 |
| A02 | SYBR | CAct | Unkn-1 | 1000pg | N/A | 0.00 | 0.000 |
| A03 | SYBR | CAct | Unkn-1 | 1000pg | N/A | 0.00 | 0.000 |
| A04 | SYBR | CAct | Unkn-2 | 100pg | N/A | 0.00 | 0.000 |
| A05 | SYBR | CAct | Unkn-2 | 100pg | N/A | 0.00 | 0.000 |
| A06 | SYBR | CAct | Unkn-2 | 100pg | N/A | 0.00 | 0.000 |
| A07 | SYBR | CAct | Unkn-3 | 10pg | N/A | 0.00 | 0.000 |
| A08 | SYBR | CAct | Unkn-3 | 10pg | N/A | 0.00 | 0.000 |
| B01 | SYBR | CAct | Unkn-3 | 10pg | N/A | 0.00 | 0.000 |
| B02 | SYBR | CAct | NTC-1 | | N/A | 0.00 | 0.000 |
| B03 | SYBR | CAct | NTC-1 | | N/A | 0.00 | 0.000 |
| B04 | SYBR | CAct | NTC-1 | | N/A | 0.00 | 0.000 |

# Melt Curve

**Step #:** 5




## Melt Curve Data

| Well | Fluor | Target | Content | Sample | Melt Temp |
|---|---|---|---|---|---|
| A01 | SYBR | CAct | Unkn-1 | 1000pg | 83.00 |
| A02 | SYBR | CAct | Unkn-1 | 1000pg | None |
| A03 | SYBR | CAct | Unkn-1 | 1000pg | None |
| A04 | SYBR | CAct | Unkn-2 | 100pg | None |

## Melt Curve Data

| Well | Fluor | Target | Content | Sample | Melt Temp |
|---|---|---|---|---|---|
| A05 | SYBR | CAct | Unkn-2 | 100pg | None |
| A06 | SYBR | CAct | Unkn-2 | 100pg | None |
| A07 | SYBR | CAct | Unkn-3 | 10pg | None |
| A08 | SYBR | CAct | Unkn-3 | 10pg | None |
| B01 | SYBR | CAct | Unkn-3 | 10pg | None |
| B02 | SYBR | CAct | NTC-1 | | None |
| B03 | SYBR | CAct | NTC-1 | | None |
| B04 | SYBR | CAct | NTC-1 | | None |

# QC Parameters

## Data

| Description | Value | Use | Results | Exclude Wells | All excluded wells |
|---|---|---|---|---|---|
| Negative control with a Cq less than | 38 | True | | False | |
| NTC with a Cq less than | 38 | True | | False | |
| NRT with a Cq less than | 38 | True | | False | |
| Positive control with a Cq greater than | 30 | True | | False | |
| Unknown without a Cq | N/A | True | CAct:A2, A3, A4, A5, A6, A7, A8, B1. | False | |
| Standard without a Cq | N/A | True | | False | |
| Efficiency greater than | 110.0 | True | | | |
| Efficiency less than | 90.0 | True | | | |
| Std Curve R^2 less than | 0.980 | True | | | |
| Replicate group Cq Std Dev greater than | 0.20 | True | | False | |