



# sam\_2022-07-27 12-31-17\_BR006896.pcrd

7/28/2022 10:10

## Report Information

**User:** BioRad/sam  
**Data File Name:** sam\_2022-07-27 12-31-17\_BR006896.pcrd  
**Data File Path:** C:\Users\Samb\Downloads  
**Well Group Name:** All Wells  
**Report Differs from Last Save:** No

## Run Setup

### Run Information

**Run Date:** 7/27/2022 12:31  
**Run User:** sam  
**Run Type:** User-defined  
**Plate File:** 20220727\_cfx\_mussel\_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: 95.0°C for 0:30
- 2: 95.0°C for 0:03
- 3: 60.0°C for 0:05  
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 MT10 T01-G control	Unk-1 MT10 T01-G control	Unk-2 MT10 T02-G control	Unk-2 MT10 T02-G control	Unk-3 MT10 T03-G control	Unk-3 MT10 T03-G control	Unk-4 MT10 T04-G control	Unk-4 MT10 T04-G control	Unk-5 MT10 T05-G control	Unk-5 MT10 T05-G control	Unk-6 MT10 T06-G control	Unk-6 MT10 T06-G control
B	Unk-7 MT10 T07-G control	Unk-7 MT10 T07-G control	Unk-8 MT10 T08-G control	Unk-8 MT10 T08-G control	Unk-9 MT10 T09-G control	Unk-9 MT10 T09-G control	Unk-10 MT10 T10-G control	Unk-10 MT10 T10-G control	Unk-11 MT10 T16-G heat stressed	Unk-11 MT10 T16-G heat stressed	Unk-12 MT10 T17-G heat stressed	Unk-12 MT10 T17-G heat stressed
C	Unk-13 MT10 T18-G heat stressed	Unk-13 MT10 T18-G heat stressed	Unk-14 MT10 T19-G heat stressed	Unk-14 MT10 T19-G heat stressed	Unk-15 MT10 T20-G heat stressed	Unk-15 MT10 T20-G heat stressed	Unk-16 MT10 T21-G heat stressed	Unk-16 MT10 T21-G heat stressed	Unk-17 MT10 T22-G heat stressed	Unk-17 MT10 T22-G heat stressed	Unk-18 MT10 T23-G heat stressed	Unk-18 MT10 T23-G heat stressed

## Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
D	Unk-19 MT10 T24-G heat stressed	Unk-19 MT10 T24-G heat stressed	Unk-20 MT10 T25-G heat stressed	Unk-20 MT10 T25-G heat stressed	NTC-1 MT10	NTC-1 MT10						
E	Unk-21 MT20 T01-G control	Unk-21 MT20 T01-G control	Unk-22 MT20 T02-G control	Unk-22 MT20 T02-G control	Unk-23 MT20 T03-G control	Unk-23 MT20 T03-G control	Unk-24 MT20 T04-G control	Unk-24 MT20 T04-G control	Unk-25 MT20 T05-G control	Unk-25 MT20 T05-G control	Unk-26 MT20 T06-G control	Unk-26 MT20 T06-G control
F	Unk-27 MT20 T07-G control	Unk-27 MT20 T07-G control	Unk-28 MT20 T08-G control	Unk-28 MT20 T08-G control	Unk-29 MT20 T09-G control	Unk-29 MT20 T09-G control	Unk-30 MT20 T10-G control	Unk-30 MT20 T10-G control	Unk-31 MT20 T16-G heat stressed	Unk-31 MT20 T16-G heat stressed	Unk-32 MT20 T17-G heat stressed	Unk-32 MT20 T17-G heat stressed
G	Unk-33 MT20 T18-G heat stressed	Unk-33 MT20 T18-G heat stressed	Unk-34 MT20 T19-G heat stressed	Unk-34 MT20 T19-G heat stressed	Unk-35 MT20 T20-G heat stressed	Unk-35 MT20 T20-G heat stressed	Unk-36 MT20 T21-G heat stressed	Unk-36 MT20 T21-G heat stressed	Unk-37 MT20 T22-G heat stressed	Unk-37 MT20 T22-G heat stressed	Unk-38 MT20 T23-G heat stressed	Unk-38 MT20 T23-G heat stressed
H	Unk-39 MT20 T24-G heat stressed	Unk-39 MT20 T24-G heat stressed	Unk-40 MT20 T25-G heat stressed	Unk-40 MT20 T25-G heat stressed	NTC-2 MT20	NTC-2 MT20						

## Quantification

**Step #:** 3

**Analysis Mode:** Fluorophore

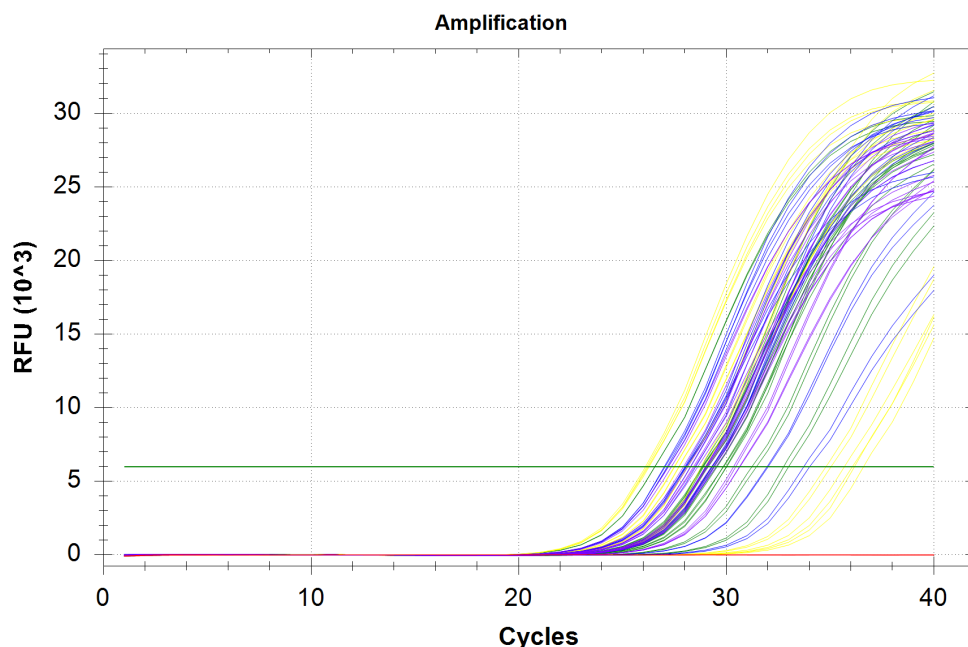
**Cq Determination:** Single Threshold

**Baseline Method:**

SYBR: Auto Calculated

**Threshold Setting:**

SYBR: 5975.63, Auto Calculated



## Quantification Data

Well	Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq Mean	Cq Std. Dev
A01	SYBR	MT10	Unkn-01	T01-G	control	26.55	26.55	0.003

## Quantification Data

Well	Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq Mean	Cq Std. Dev
A02	SYBR	MT10	Unkn-01	T01-G	control	26.56	26.55	0.003
A03	SYBR	MT10	Unkn-02	T02-G	control	32.76	32.88	0.167
A04	SYBR	MT10	Unkn-02	T02-G	control	33.00	32.88	0.167
A05	SYBR	MT10	Unkn-03	T03-G	control	28.80	28.85	0.071
A06	SYBR	MT10	Unkn-03	T03-G	control	28.90	28.85	0.071
A07	SYBR	MT10	Unkn-04	T04-G	control	30.02	30.01	0.015
A08	SYBR	MT10	Unkn-04	T04-G	control	30.00	30.01	0.015
A09	SYBR	MT10	Unkn-05	T05-G	control	29.13	29.11	0.023
A10	SYBR	MT10	Unkn-05	T05-G	control	29.09	29.11	0.023
A11	SYBR	MT10	Unkn-06	T06-G	control	29.30	29.34	0.055
A12	SYBR	MT10	Unkn-06	T06-G	control	29.38	29.34	0.055
B01	SYBR	MT10	Unkn-07	T07-G	control	29.55	29.53	0.032
B02	SYBR	MT10	Unkn-07	T07-G	control	29.51	29.53	0.032
B03	SYBR	MT10	Unkn-08	T08-G	control	28.84	28.85	0.022
B04	SYBR	MT10	Unkn-08	T08-G	control	28.87	28.85	0.022
B05	SYBR	MT10	Unkn-09	T09-G	control	29.84	29.85	0.016
B06	SYBR	MT10	Unkn-09	T09-G	control	29.87	29.85	0.016
B07	SYBR	MT10	Unkn-10	T10-G	control	31.23	31.34	0.154
B08	SYBR	MT10	Unkn-10	T10-G	control	31.45	31.34	0.154
B09	SYBR	MT10	Unkn-11	T16-G	heat stressed	29.04	29.05	0.015
B10	SYBR	MT10	Unkn-11	T16-G	heat stressed	29.07	29.05	0.015
B11	SYBR	MT10	Unkn-12	T17-G	heat stressed	26.17	26.20	0.041
B12	SYBR	MT10	Unkn-12	T17-G	heat stressed	26.23	26.20	0.041
C01	SYBR	MT10	Unkn-13	T18-G	heat stressed	28.79	28.89	0.136
C02	SYBR	MT10	Unkn-13	T18-G	heat stressed	28.99	28.89	0.136
C03	SYBR	MT10	Unkn-14	T19-G	heat stressed	36.17	36.39	0.311
C04	SYBR	MT10	Unkn-14	T19-G	heat stressed	36.61	36.39	0.311
C05	SYBR	MT10	Unkn-15	T20-G	heat stressed	28.12	28.13	0.013
C06	SYBR	MT10	Unkn-15	T20-G	heat stressed	28.14	28.13	0.013
C07	SYBR	MT10	Unkn-16	T21-G	heat stressed	27.49	27.50	0.016
C08	SYBR	MT10	Unkn-16	T21-G	heat stressed	27.51	27.50	0.016
C09	SYBR	MT10	Unkn-17	T22-G	heat stressed	36.07	35.88	0.271
C10	SYBR	MT10	Unkn-17	T22-G	heat stressed	35.68	35.88	0.271
C11	SYBR	MT10	Unkn-18	T23-G	heat stressed	26.10	26.19	0.124
C12	SYBR	MT10	Unkn-18	T23-G	heat stressed	26.28	26.19	0.124
D01	SYBR	MT10	Unkn-19	T24-G	heat stressed	27.72	27.72	0.011

## Quantification Data

Well	Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq Mean	Cq Std. Dev
D02	SYBR	MT10	Unkn-19	T24-G	heat stressed	27.71	27.72	0.011
D03	SYBR	MT10	Unkn-20	T25-G	heat stressed	35.04	34.92	0.173
D04	SYBR	MT10	Unkn-20	T25-G	heat stressed	34.80	34.92	0.173
D05	SYBR	MT10	NTC-01			N/A	0.00	0.000
D06	SYBR	MT10	NTC-01			N/A	0.00	0.000
E01	SYBR	MT20	Unkn-21	T01-G	control	27.05	27.03	0.028
E02	SYBR	MT20	Unkn-21	T01-G	control	27.01	27.03	0.028
E03	SYBR	MT20	Unkn-22	T02-G	control	28.27	28.40	0.180
E04	SYBR	MT20	Unkn-22	T02-G	control	28.52	28.40	0.180
E05	SYBR	MT20	Unkn-23	T03-G	control	28.08	28.04	0.050
E06	SYBR	MT20	Unkn-23	T03-G	control	28.00	28.04	0.050
E07	SYBR	MT20	Unkn-24	T04-G	control	29.31	29.37	0.084
E08	SYBR	MT20	Unkn-24	T04-G	control	29.43	29.37	0.084
E09	SYBR	MT20	Unkn-25	T05-G	control	29.31	29.32	0.008
E10	SYBR	MT20	Unkn-25	T05-G	control	29.33	29.32	0.008
E11	SYBR	MT20	Unkn-26	T06-G	control	27.15	27.17	0.033
E12	SYBR	MT20	Unkn-26	T06-G	control	27.19	27.17	0.033
F01	SYBR	MT20	Unkn-27	T07-G	control	29.06	29.03	0.042
F02	SYBR	MT20	Unkn-27	T07-G	control	29.00	29.03	0.042
F03	SYBR	MT20	Unkn-28	T08-G	control	28.07	28.05	0.023
F04	SYBR	MT20	Unkn-28	T08-G	control	28.03	28.05	0.023
F05	SYBR	MT20	Unkn-29	T09-G	control	33.73	33.87	0.198
F06	SYBR	MT20	Unkn-29	T09-G	control	34.01	33.87	0.198
F07	SYBR	MT20	Unkn-30	T10-G	control	31.96	31.99	0.036
F08	SYBR	MT20	Unkn-30	T10-G	control	32.01	31.99	0.036
F09	SYBR	MT20	Unkn-31	T16-G	heat stressed	29.41	29.46	0.074
F10	SYBR	MT20	Unkn-31	T16-G	heat stressed	29.51	29.46	0.074
F11	SYBR	MT20	Unkn-32	T17-G	heat stressed	28.28	28.35	0.093
F12	SYBR	MT20	Unkn-32	T17-G	heat stressed	28.42	28.35	0.093
G01	SYBR	MT20	Unkn-33	T18-G	heat stressed	29.01	29.01	0.007
G02	SYBR	MT20	Unkn-33	T18-G	heat stressed	29.00	29.01	0.007
G03	SYBR	MT20	Unkn-34	T19-G	heat stressed	30.35	30.40	0.074
G04	SYBR	MT20	Unkn-34	T19-G	heat stressed	30.45	30.40	0.074
G05	SYBR	MT20	Unkn-35	T20-G	heat stressed	27.93	28.04	0.146
G06	SYBR	MT20	Unkn-35	T20-G	heat stressed	28.14	28.04	0.146
G07	SYBR	MT20	Unkn-36	T21-G	heat stressed	29.28	29.35	0.090
G08	SYBR	MT20	Unkn-36	T21-G	heat stressed	29.41	29.35	0.090
G09	SYBR	MT20	Unkn-37	T22-G	heat stressed	29.11	29.07	0.060

## Quantification Data

Well	Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq Mean	Cq Std. Dev
G10	SYBR	MT20	Unkn-37	T22-G	heat stressed	29.03	29.07	0.060
G11	SYBR	MT20	Unkn-38	T23-G	heat stressed	27.35	27.28	0.099
G12	SYBR	MT20	Unkn-38	T23-G	heat stressed	27.21	27.28	0.099
H01	SYBR	MT20	Unkn-39	T24-G	heat stressed	30.65	30.64	0.017
H02	SYBR	MT20	Unkn-39	T24-G	heat stressed	30.63	30.64	0.017
H03	SYBR	MT20	Unkn-40	T25-G	heat stressed	28.48	28.55	0.104
H04	SYBR	MT20	Unkn-40	T25-G	heat stressed	28.62	28.55	0.104
H05	SYBR	MT20	NTC-02			N/A	0.00	0.000
H06	SYBR	MT20	NTC-02			N/A	0.00	0.000

## Bar Chart

Normalized expression analysis is not possible, either because no target is assigned as a reference or the selected target(s) is not a

## Target Names

Name	Full Name	Reference	Auto Efficiency	Efficiency
MT10	MT10	False	Yes	100.0%
MT20	MT20	False	Yes	100.0%

## Sample Names

Name	Full Name	Control
T01-G	T01-G	No
T02-G	T02-G	No
T03-G	T03-G	No
T04-G	T04-G	No
T05-G	T05-G	No
T06-G	T06-G	No
T07-G	T07-G	No
T08-G	T08-G	No
T09-G	T09-G	No
T10-G	T10-G	No
T16-G	T16-G	No
T17-G	T17-G	No
T18-G	T18-G	No
T19-G	T19-G	No
T20-G	T20-G	No
T21-G	T21-G	No
T22-G	T22-G	No
T23-G	T23-G	No
T24-G	T24-G	No

## Sample Names

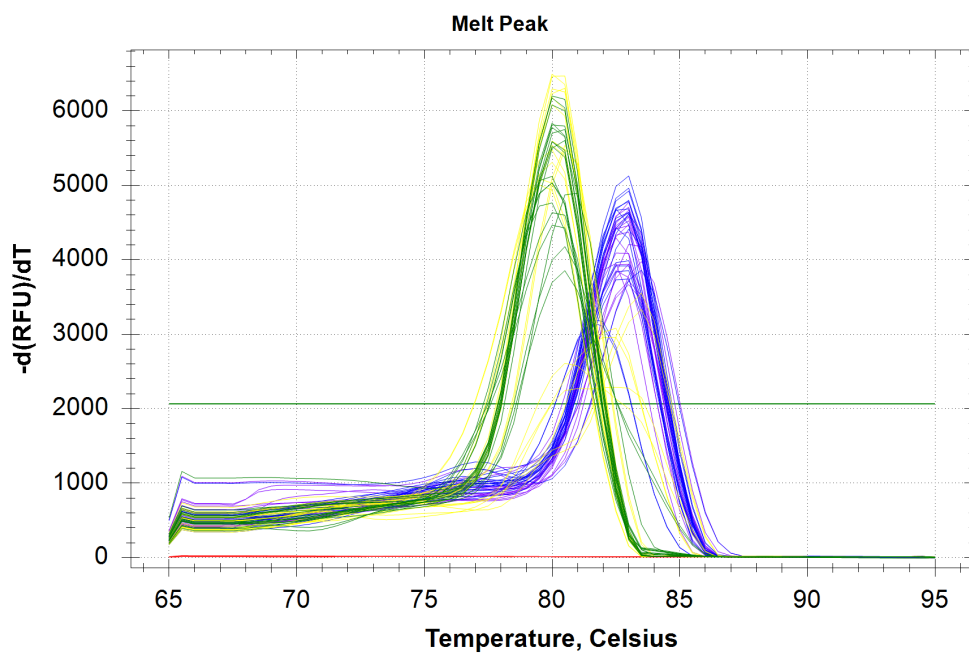
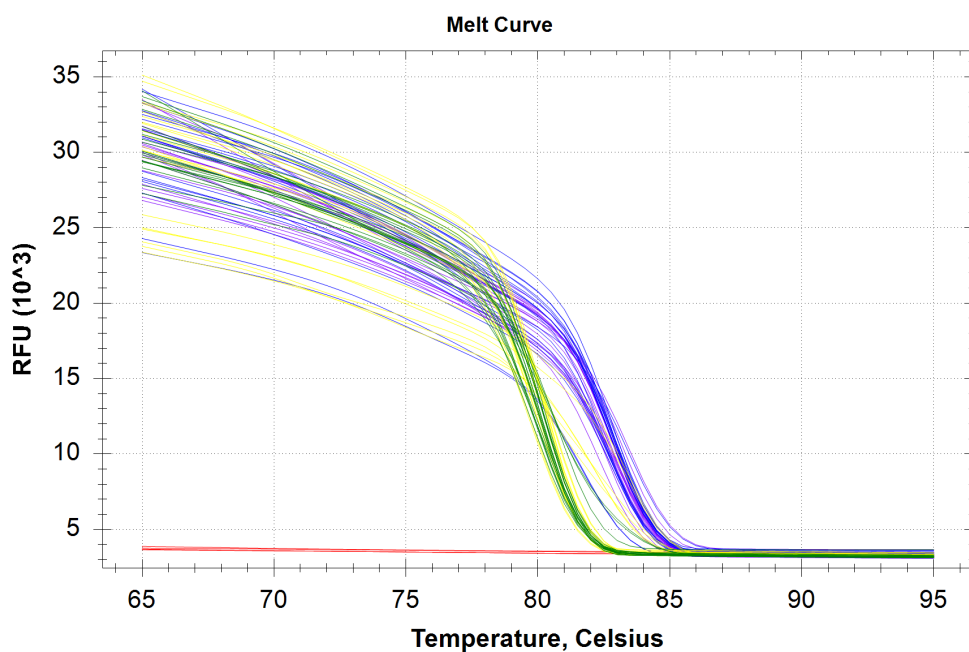
Name	Full Name	Control
T25-G	T25-G	No

## Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
MT10	T01-G		N/A	N/A	N/A	26.55	0.00192	N/A
MT10	T02-G		N/A	N/A	N/A	32.88	0.11814	N/A
MT10	T03-G		N/A	N/A	N/A	28.85	0.04991	N/A
MT10	T04-G		N/A	N/A	N/A	30.01	0.01083	N/A
MT10	T05-G		N/A	N/A	N/A	29.11	0.01633	N/A
MT10	T06-G		N/A	N/A	N/A	29.34	0.03876	N/A
MT10	T07-G		N/A	N/A	N/A	29.53	0.02228	N/A
MT10	T08-G		N/A	N/A	N/A	28.85	0.01583	N/A
MT10	T09-G		N/A	N/A	N/A	29.85	0.01102	N/A
MT10	T10-G		N/A	N/A	N/A	31.34	0.10890	N/A
MT10	T16-G		N/A	N/A	N/A	29.05	0.01030	N/A
MT10	T17-G		N/A	N/A	N/A	26.20	0.02872	N/A
MT10	T18-G		N/A	N/A	N/A	28.89	0.09645	N/A
MT10	T19-G		N/A	N/A	N/A	36.39	0.22002	N/A
MT10	T20-G		N/A	N/A	N/A	28.13	0.00899	N/A
MT10	T21-G		N/A	N/A	N/A	27.50	0.01125	N/A
MT10	T22-G		N/A	N/A	N/A	35.88	0.19188	N/A
MT10	T23-G		N/A	N/A	N/A	26.19	0.08772	N/A
MT10	T24-G		N/A	N/A	N/A	27.72	0.00795	N/A
MT10	T25-G		N/A	N/A	N/A	34.92	0.12213	N/A
MT20	T01-G		N/A	N/A	N/A	27.03	0.01969	N/A
MT20	T02-G		N/A	N/A	N/A	28.40	0.12705	N/A
MT20	T03-G		N/A	N/A	N/A	28.04	0.03541	N/A
MT20	T04-G		N/A	N/A	N/A	29.37	0.05905	N/A
MT20	T05-G		N/A	N/A	N/A	29.32	0.00562	N/A
MT20	T06-G		N/A	N/A	N/A	27.17	0.02323	N/A
MT20	T07-G		N/A	N/A	N/A	29.03	0.02992	N/A
MT20	T08-G		N/A	N/A	N/A	28.05	0.01601	N/A
MT20	T09-G		N/A	N/A	N/A	33.87	0.14007	N/A
MT20	T10-G		N/A	N/A	N/A	31.99	0.02530	N/A
MT20	T16-G		N/A	N/A	N/A	29.46	0.05237	N/A
MT20	T17-G		N/A	N/A	N/A	28.35	0.06555	N/A
MT20	T18-G		N/A	N/A	N/A	29.01	0.00470	N/A
MT20	T19-G		N/A	N/A	N/A	30.40	0.05250	N/A
MT20	T20-G		N/A	N/A	N/A	28.04	0.10331	N/A
MT20	T21-G		N/A	N/A	N/A	29.35	0.06384	N/A
MT20	T22-G		N/A	N/A	N/A	29.07	0.04208	N/A
MT20	T23-G		N/A	N/A	N/A	27.28	0.06991	N/A
MT20	T24-G		N/A	N/A	N/A	30.64	0.01184	N/A
MT20	T25-G		N/A	N/A	N/A	28.55	0.07324	N/A

## Melt Curve

Step #: 5



Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	SYBR	MT10	Unkn-01	T01-G	80.50
A02	SYBR	MT10	Unkn-01	T01-G	80.00
A03	SYBR	MT10	Unkn-02	T02-G	80.50
A04	SYBR	MT10	Unkn-02	T02-G	80.50
A05	SYBR	MT10	Unkn-03	T03-G	80.00
A06	SYBR	MT10	Unkn-03	T03-G	80.00

## Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A07	SYBR	MT10	Unkn-04	T04-G	80.00
A08	SYBR	MT10	Unkn-04	T04-G	80.00
A09	SYBR	MT10	Unkn-05	T05-G	80.00
A10	SYBR	MT10	Unkn-05	T05-G	81.00
A11	SYBR	MT10	Unkn-06	T06-G	80.00
A12	SYBR	MT10	Unkn-06	T06-G	80.50
B01	SYBR	MT10	Unkn-07	T07-G	80.00
B02	SYBR	MT10	Unkn-07	T07-G	80.00
B03	SYBR	MT10	Unkn-08	T08-G	80.00
B04	SYBR	MT10	Unkn-08	T08-G	80.00
B05	SYBR	MT10	Unkn-09	T09-G	80.00
B06	SYBR	MT10	Unkn-09	T09-G	80.00
B07	SYBR	MT10	Unkn-10	T10-G	80.00
B08	SYBR	MT10	Unkn-10	T10-G	80.00
B09	SYBR	MT10	Unkn-11	T16-G	80.00
B10	SYBR	MT10	Unkn-11	T16-G	80.00
B11	SYBR	MT10	Unkn-12	T17-G	80.00
B12	SYBR	MT10	Unkn-12	T17-G	80.00
C01	SYBR	MT10	Unkn-13	T18-G	80.00
C02	SYBR	MT10	Unkn-13	T18-G	80.00
C03	SYBR	MT10	Unkn-14	T19-G	82.50
C04	SYBR	MT10	Unkn-14	T19-G	82.50
C05	SYBR	MT10	Unkn-15	T20-G	80.00
C06	SYBR	MT10	Unkn-15	T20-G	80.00
C07	SYBR	MT10	Unkn-16	T21-G	79.50
C08	SYBR	MT10	Unkn-16	T21-G	79.50
C09	SYBR	MT10	Unkn-17	T22-G	82.50
C10	SYBR	MT10	Unkn-17	T22-G	80.50
C11	SYBR	MT10	Unkn-18	T23-G	80.50
C12	SYBR	MT10	Unkn-18	T23-G	80.50
D01	SYBR	MT10	Unkn-19	T24-G	80.50
D02	SYBR	MT10	Unkn-19	T24-G	80.50
D03	SYBR	MT10	Unkn-20	T25-G	83.50
D04	SYBR	MT10	Unkn-20	T25-G	83.50
D05	SYBR	MT10	NTC-01		None
D06	SYBR	MT10	NTC-01		None
E01	SYBR	MT20	Unkn-21	T01-G	83.00
E02	SYBR	MT20	Unkn-21	T01-G	83.00
E03	SYBR	MT20	Unkn-22	T02-G	83.00
E04	SYBR	MT20	Unkn-22	T02-G	83.00
E05	SYBR	MT20	Unkn-23	T03-G	83.00
E06	SYBR	MT20	Unkn-23	T03-G	83.00
E07	SYBR	MT20	Unkn-24	T04-G	83.00
E08	SYBR	MT20	Unkn-24	T04-G	83.00
E09	SYBR	MT20	Unkn-25	T05-G	83.00
E10	SYBR	MT20	Unkn-25	T05-G	83.00
E11	SYBR	MT20	Unkn-26	T06-G	83.00
E12	SYBR	MT20	Unkn-26	T06-G	83.50
F01	SYBR	MT20	Unkn-27	T07-G	82.50
F02	SYBR	MT20	Unkn-27	T07-G	82.50



## Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
F03	SYBR	MT20	Unkn-28	T08-G	83.00
F04	SYBR	MT20	Unkn-28	T08-G	83.00
F05	SYBR	MT20	Unkn-29	T09-G	81.50
F06	SYBR	MT20	Unkn-29	T09-G	81.50
F07	SYBR	MT20	Unkn-30	T10-G	83.00
F08	SYBR	MT20	Unkn-30	T10-G	83.00
F09	SYBR	MT20	Unkn-31	T16-G	83.00
F10	SYBR	MT20	Unkn-31	T16-G	83.00
F11	SYBR	MT20	Unkn-32	T17-G	83.00
F12	SYBR	MT20	Unkn-32	T17-G	83.50
G01	SYBR	MT20	Unkn-33	T18-G	83.00
G02	SYBR	MT20	Unkn-33	T18-G	83.00
G03	SYBR	MT20	Unkn-34	T19-G	83.00
G04	SYBR	MT20	Unkn-34	T19-G	83.00
G05	SYBR	MT20	Unkn-35	T20-G	83.00
G06	SYBR	MT20	Unkn-35	T20-G	83.00
G07	SYBR	MT20	Unkn-36	T21-G	82.50
G08	SYBR	MT20	Unkn-36	T21-G	82.50
G09	SYBR	MT20	Unkn-37	T22-G	83.00
G10	SYBR	MT20	Unkn-37	T22-G	83.00
G11	SYBR	MT20	Unkn-38	T23-G	83.00
G12	SYBR	MT20	Unkn-38	T23-G	83.00
H01	SYBR	MT20	Unkn-39	T24-G	83.00
H02	SYBR	MT20	Unkn-39	T24-G	82.50
H03	SYBR	MT20	Unkn-40	T25-G	83.00
H04	SYBR	MT20	Unkn-40	T25-G	83.00
H05	SYBR	MT20	NTC-02		None
H06	SYBR	MT20	NTC-02		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		False	

## Data

<b>Description</b>	<b>Value</b>	<b>Use</b>	<b>Results</b>	<b>Exclude Wells</b>	<b>All excluded wells</b>
Standard without a Cq	N/A	True		False	
Efficiency greater than	110.0	True			
Efficiency less than	90.0	True			
Std Curve R <sup>2</sup> less than	0.980	True			
Replicate group Cq Std Dev greater than	0.20	True	SYBR:C3, C4, C9, C10.	False	