



# Roberts Lab\_2011-06-01 16-05-45\_CC009827.pcrd

6/2/2011 1:23 PM

## Report Information

User: BioRad/Roberts Lab  
Data File Name: Roberts Lab\_2011-06-01 16-05-45\_CC009827.pcrd  
Data File Path: C:\Users\Sam\Documents\My Dropbox\Roberts Lab CFX96 Data\Sam  
Well Group Name: All Wells  
Report Differs from Last Save: No

## Run Setup

### Run Information

Run User: Roberts Lab  
Run Date: 6/1/2011 4:06 PM  
ID:  
Notes:  
Sample Volume: 20  
Temperature Control Mode: Calculated  
Lid Temperature: 105  
Base Serial Number: CC009827  
Optical Head Serial Number: 785BR3659

### Protocol

- 1: 98.0°C for 2:00
- 2: 98.0°C for 0:05
- 3: 60.0°C for 0:05  
Plate Read
- 4: GOTO 2, 39 more times
- 5: Melt Curve 65.0°C to 85.0°C : Increment 0.2°C 0:10  
Plate Read

### Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
A	Unk-1 COX1 Gill 1hr C1	Unk-9 COX1 Gill 1hr E1	Unk-17 COX1 Gill 3hr C1	Unk-25 COX1 Gill 3hr E1	Unk-33 COX1 Dg/Gon ad 3hr C1	Unk-41 COX1 Mantle 3hr C4	Unk-1 COX1 Gill 1hr C1	Unk-9 COX1 Gill 1hr E1	Unk-17 COX1 Gill 3hr C1	Unk-25 COX1 Gill 3hr E1	Unk-33 COX1 Dg/Gon ad 3hr C1	Unk-41 COX1 Mantle 3hr C4
B	Unk-2 COX1 Gill 1hr C2	Unk-10 COX1 Gill 1hr E2	Unk-18 COX1 Gill 3hr C2	Unk-26 COX1 Gill 3hr E2	Unk-34 COX1 Dg/Gon ad 3hr C2	Unk-42 COX1 Mantle 3hr C6	Unk-2 COX1 Gill 1hr C2	Unk-10 COX1 Gill 1hr E2	Unk-18 COX1 Gill 3hr C2	Unk-26 COX1 Gill 3hr E2	Unk-34 COX1 Dg/Gon ad 3hr C2	Unk-42 COX1 Mantle 3hr C6

	1	2	3	4	5	6	7	8	9	10	11	12
C	Unk-3 COX1 Gill 1hr C3	Unk-11 COX1 Gill 1hr E3	Unk-19 COX1 Gill 3hr C3	Unk-27 COX1 Gill 3hr E3	Unk-35 COX1 Dg/Gon ad 3hr C3	Unk-43 COX1 Muscle 3hr C1	Unk-3 COX1 Gill 1hr C3	Unk-11 COX1 Gill 1hr E3	Unk-19 COX1 Gill 3hr C3	Unk-27 COX1 Gill 3hr E3	Unk-35 COX1 Dg/Gon ad 3hr C3	Unk-43 COX1 Muscle 3hr C1
D	Unk-4 COX1 Gill 1hr C4	Unk-12 COX1 Gill 1hr E4	Unk-20 COX1 Gill 3hr C4	Unk-28 COX1 Gill 3hr E4	Unk-36 COX1 Dg/Gon ad 3hr C4	Unk-44 COX1 Muscle 3hr C2	Unk-4 COX1 Gill 1hr C4	Unk-12 COX1 Gill 1hr E4	Unk-20 COX1 Gill 3hr C4	Unk-28 COX1 Gill 3hr E4	Unk-36 COX1 Dg/Gon ad 3hr C4	Unk-44 COX1 Muscle 3hr C2
E	Unk-5 COX1 Gill 1hr C5	Unk-13 COX1 Gill 1hr E5	Unk-21 COX1 Gill 3hr C5	Unk-29 COX1 Gill 3hr E5	Unk-37 COX1 Dg/Gon ad 3hr C6	Unk-45 COX1 Muscle 3hr C3	Unk-5 COX1 Gill 1hr C5	Unk-13 COX1 Gill 1hr E5	Unk-21 COX1 Gill 3hr C5	Unk-29 COX1 Gill 3hr E5	Unk-37 COX1 Dg/Gon ad 3hr C6	Unk-45 COX1 Muscle 3hr C3
F	Unk-6 COX1 Gill 1hr C6	Unk-14 COX1 Gill 1hr E6	Unk-22 COX1 Gill 3hr C6	Unk-30 COX1 Gill 3hr E6	Unk-38 COX1 Mantle 3hr C1	Unk-46 COX1 Muscle 3hr C4	Unk-6 COX1 Gill 1hr C6	Unk-14 COX1 Gill 1hr E6	Unk-22 COX1 Gill 3hr C6	Unk-30 COX1 Gill 3hr E6	Unk-38 COX1 Mantle 3hr C1	Unk-46 COX1 Muscle 3hr C4
G	Unk-7 COX1 Gill 1hr C7	Unk-15 COX1 Gill 1hr E7	Unk-23 COX1 Gill 3hr C7	Unk-31 COX1 Gill 3hr E7	Unk-39 COX1 Mantle 3hr C2	Unk-47 COX1 Muscle 3hr C6	Unk-7 COX1 Gill 1hr C7	Unk-15 COX1 Gill 1hr E7	Unk-23 COX1 Gill 3hr C7	Unk-31 COX1 Gill 3hr E7	Unk-39 COX1 Mantle 3hr C2	Unk-47 COX1 Muscle 3hr C6
H	Unk-8 COX1 Gill 1hr C8	Unk-16 COX1 Gill 1hr E8	Unk-24 COX1 Gill 3hr C8	Unk-32 COX1 Gill 3hr E8	Unk-40 COX1 Mantle 3hr C3	NTC COX1	Unk-8 COX1 Gill 1hr C8	Unk-16 COX1 Gill 1hr E8	Unk-24 COX1 Gill 3hr C8	Unk-32 COX1 Gill 3hr E8	Unk-40 COX1 Mantle 3hr C3	NTC COX1

## Quantification

Step #: 3

Analysis Mode: Fluorophore

Cq Determination: Single Threshold

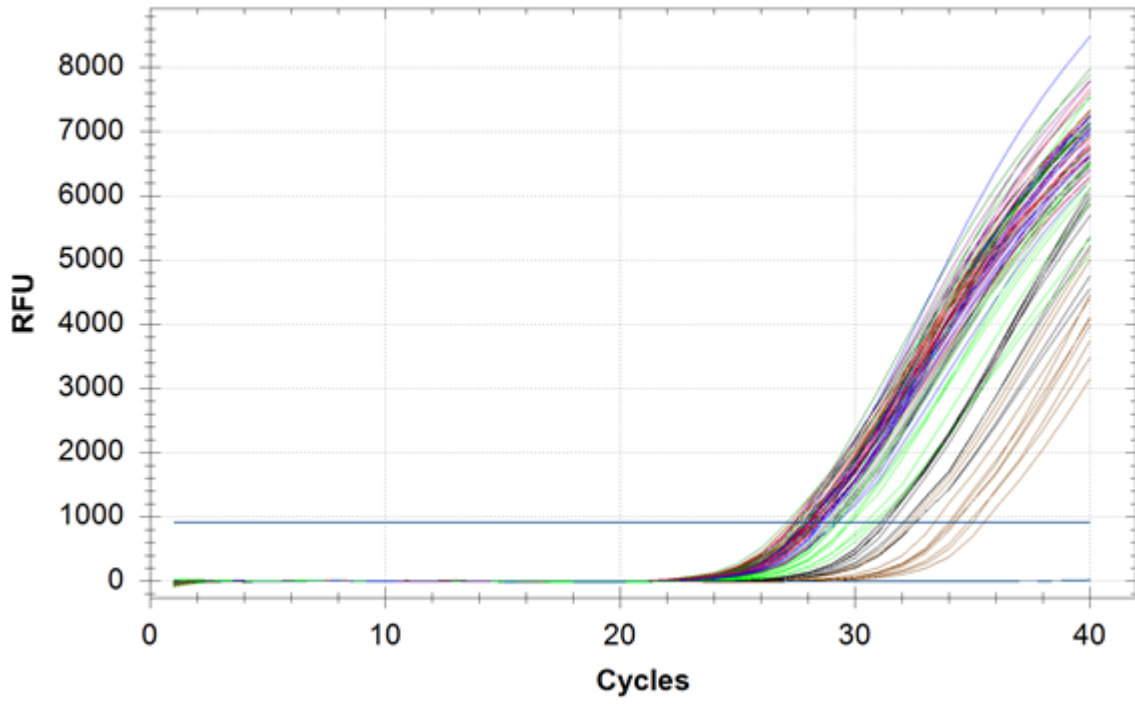
Baseline Method:

FAM: Auto Calculated

Threshold Setting:

FAM: 914.66, Auto Calculated

### Amplification



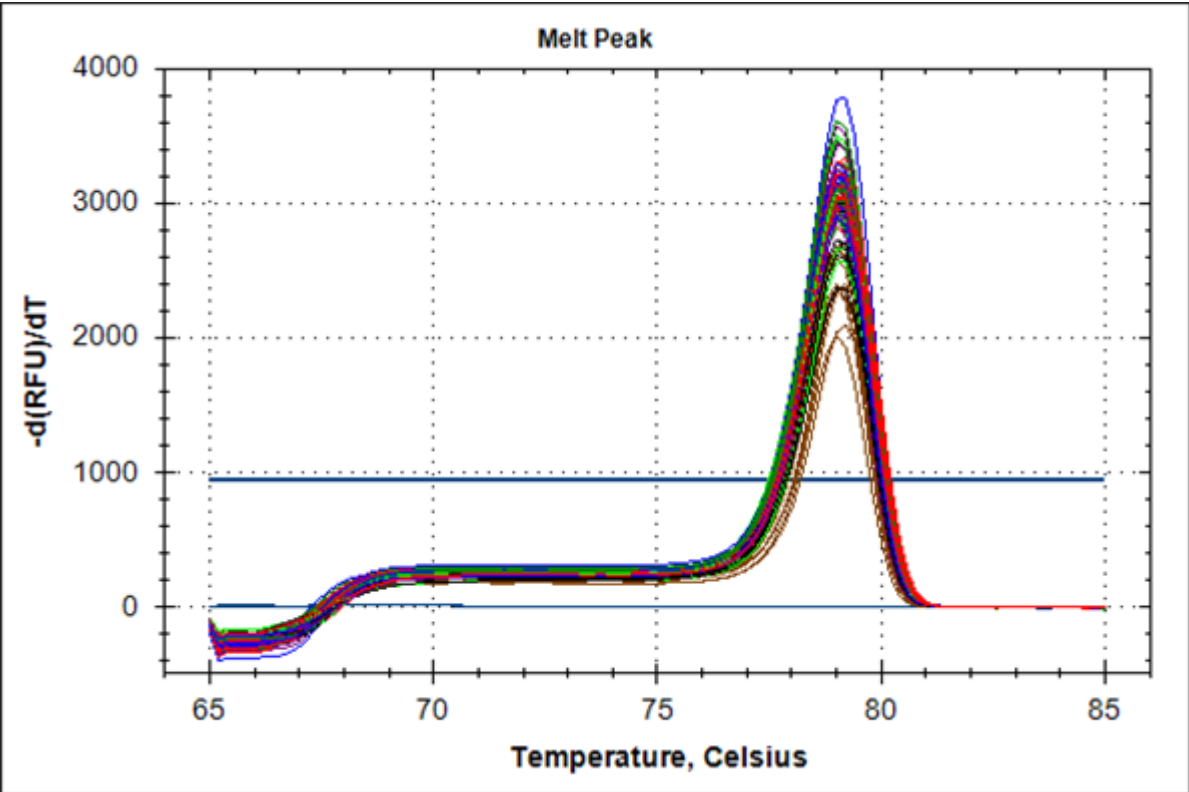
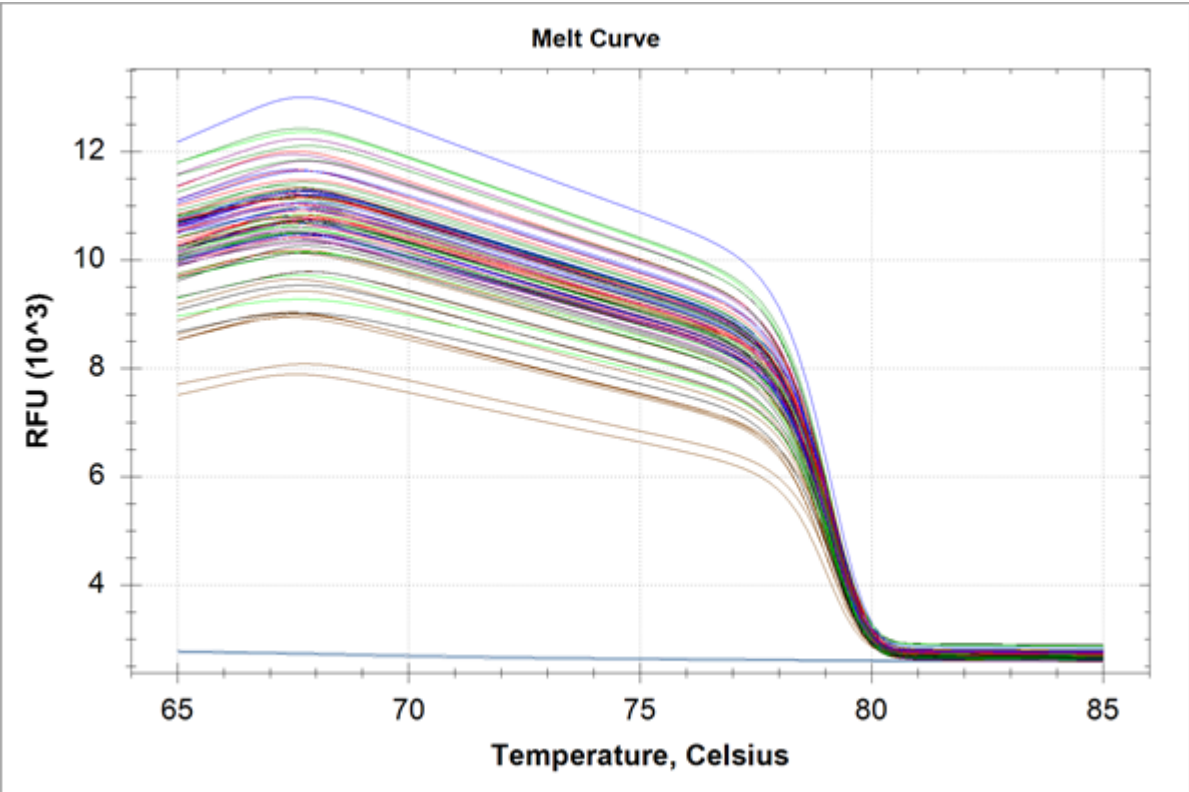
## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	FAM	COX1	Unkn-01	Gill 1hr C1	28.04	27.93	0.155
A02	FAM	COX1	Unkn-09	Gill 1hr E1	29.22	29.21	0.024
A03	FAM	COX1	Unkn-17	Gill 3hr C1	27.66	27.76	0.133
A04	FAM	COX1	Unkn-25	Gill 3hr E1	28.23	28.27	0.057
A05	FAM	COX1	Unkn-33	Dg/Gonad 3hr C1	32.13	32.35	0.303
A06	FAM	COX1	Unkn-41	Mantle 3hr C4	29.81	30.27	0.641
A07	FAM	COX1	Unkn-01	Gill 1hr C1	27.82	27.93	0.155
A08	FAM	COX1	Unkn-09	Gill 1hr E1	29.19	29.21	0.024
A09	FAM	COX1	Unkn-17	Gill 3hr C1	27.85	27.76	0.133
A10	FAM	COX1	Unkn-25	Gill 3hr E1	28.31	28.27	0.057
A11	FAM	COX1	Unkn-33	Dg/Gonad 3hr C1	32.56	32.35	0.303
A12	FAM	COX1	Unkn-41	Mantle 3hr C4	30.72	30.27	0.641
B01	FAM	COX1	Unkn-02	Gill 1hr C2	27.53	27.58	0.077
B02	FAM	COX1	Unkn-10	Gill 1hr E2	28.46	28.45	0.015
B03	FAM	COX1	Unkn-18	Gill 3hr C2	27.10	27.46	0.504
B04	FAM	COX1	Unkn-26	Gill 3hr E2	28.13	28.29	0.229
B05	FAM	COX1	Unkn-34	Dg/Gonad 3hr C2	32.03	32.30	0.378
B06	FAM	COX1	Unkn-42	Mantle 3hr C6	30.45	30.67	0.316
B07	FAM	COX1	Unkn-02	Gill 1hr C2	27.64	27.58	0.077
B08	FAM	COX1	Unkn-10	Gill 1hr E2	28.43	28.45	0.015
B09	FAM	COX1	Unkn-18	Gill 3hr C2	27.81	27.46	0.504
B10	FAM	COX1	Unkn-26	Gill 3hr E2	28.45	28.29	0.229
B11	FAM	COX1	Unkn-34	Dg/Gonad 3hr C2	32.57	32.30	0.378
B12	FAM	COX1	Unkn-42	Mantle 3hr C6	30.90	30.67	0.316
C01	FAM	COX1	Unkn-03	Gill 1hr C3	27.93	28.06	0.184
C02	FAM	COX1	Unkn-11	Gill 1hr E3	28.02	28.02	0.002
C03	FAM	COX1	Unkn-19	Gill 3hr C3	27.99	28.18	0.277
C04	FAM	COX1	Unkn-27	Gill 3hr E3	29.00	29.05	0.072
C05	FAM	COX1	Unkn-35	Dg/Gonad 3hr C3	31.16	31.23	0.093
C06	FAM	COX1	Unkn-43	Muscle 3hr C1	32.44	32.37	0.098
C07	FAM	COX1	Unkn-03	Gill 1hr C3	28.19	28.06	0.184
C08	FAM	COX1	Unkn-11	Gill 1hr E3	28.02	28.02	0.002
C09	FAM	COX1	Unkn-19	Gill 3hr C3	28.38	28.18	0.277
C10	FAM	COX1	Unkn-27	Gill 3hr E3	29.10	29.05	0.072
C11	FAM	COX1	Unkn-35	Dg/Gonad 3hr C3	31.29	31.23	0.093
C12	FAM	COX1	Unkn-43	Muscle 3hr C1	32.30	32.37	0.098
D01	FAM	COX1	Unkn-04	Gill 1hr C4	28.12	28.16	0.062
D02	FAM	COX1	Unkn-12	Gill 1hr E4	28.51	28.58	0.093
D03	FAM	COX1	Unkn-20	Gill 3hr C4	27.93	28.09	0.225
D04	FAM	COX1	Unkn-28	Gill 3hr E4	27.45	27.43	0.030
D05	FAM	COX1	Unkn-36	Dg/Gonad 3hr C4	31.30	31.42	0.168
D06	FAM	COX1	Unkn-44	Muscle 3hr C2	34.08	34.14	0.081
D07	FAM	COX1	Unkn-04	Gill 1hr C4	28.20	28.16	0.062
D08	FAM	COX1	Unkn-12	Gill 1hr E4	28.64	28.58	0.093
D09	FAM	COX1	Unkn-20	Gill 3hr C4	28.25	28.09	0.225
D10	FAM	COX1	Unkn-28	Gill 3hr E4	27.41	27.43	0.030
D11	FAM	COX1	Unkn-36	Dg/Gonad 3hr C4	31.53	31.42	0.168

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
D12	FAM	COX1	Unkn-44	Muscle 3hr C2	34.20	34.14	0.081
E01	FAM	COX1	Unkn-05	Gill 1hr C5	28.40	28.41	0.008
E02	FAM	COX1	Unkn-13	Gill 1hr E5	27.94	27.98	0.054
E03	FAM	COX1	Unkn-21	Gill 3hr C5	27.39	27.62	0.321
E04	FAM	COX1	Unkn-29	Gill 3hr E5	28.88	28.94	0.086
E05	FAM	COX1	Unkn-37	Dg/Gonad 3hr C6	31.06	31.18	0.167
E06	FAM	COX1	Unkn-45	Muscle 3hr C3	34.27	34.55	0.389
E07	FAM	COX1	Unkn-05	Gill 1hr C5	28.42	28.41	0.008
E08	FAM	COX1	Unkn-13	Gill 1hr E5	28.02	27.98	0.054
E09	FAM	COX1	Unkn-21	Gill 3hr C5	27.85	27.62	0.321
E10	FAM	COX1	Unkn-29	Gill 3hr E5	29.00	28.94	0.086
E11	FAM	COX1	Unkn-37	Dg/Gonad 3hr C6	31.30	31.18	0.167
E12	FAM	COX1	Unkn-45	Muscle 3hr C3	34.82	34.55	0.389
F01	FAM	COX1	Unkn-06	Gill 1hr C6	28.04	28.25	0.298
F02	FAM	COX1	Unkn-14	Gill 1hr E6	27.80	27.93	0.183
F03	FAM	COX1	Unkn-22	Gill 3hr C6	27.55	27.75	0.274
F04	FAM	COX1	Unkn-30	Gill 3hr E6	27.97	28.05	0.113
F05	FAM	COX1	Unkn-38	Mantle 3hr C1	29.07	29.04	0.049
F06	FAM	COX1	Unkn-46	Muscle 3hr C4	35.49	35.25	0.335
F07	FAM	COX1	Unkn-06	Gill 1hr C6	28.46	28.25	0.298
F08	FAM	COX1	Unkn-14	Gill 1hr E6	28.06	27.93	0.183
F09	FAM	COX1	Unkn-22	Gill 3hr C6	27.94	27.75	0.274
F10	FAM	COX1	Unkn-30	Gill 3hr E6	28.13	28.05	0.113
F11	FAM	COX1	Unkn-38	Mantle 3hr C1	29.00	29.04	0.049
F12	FAM	COX1	Unkn-46	Muscle 3hr C4	35.01	35.25	0.335
G01	FAM	COX1	Unkn-07	Gill 1hr C7	27.45	27.88	0.603
G02	FAM	COX1	Unkn-15	Gill 1hr E7	28.64	28.60	0.062
G03	FAM	COX1	Unkn-23	Gill 3hr C7	27.27	27.43	0.232
G04	FAM	COX1	Unkn-31	Gill 3hr E7	28.11	28.20	0.133
G05	FAM	COX1	Unkn-39	Mantle 3hr C2	29.27	29.47	0.281
G06	FAM	COX1	Unkn-47	Muscle 3hr C6	33.37	33.68	0.436
G07	FAM	COX1	Unkn-07	Gill 1hr C7	28.30	27.88	0.603
G08	FAM	COX1	Unkn-15	Gill 1hr E7	28.55	28.60	0.062
G09	FAM	COX1	Unkn-23	Gill 3hr C7	27.60	27.43	0.232
G10	FAM	COX1	Unkn-31	Gill 3hr E7	28.30	28.20	0.133
G11	FAM	COX1	Unkn-39	Mantle 3hr C2	29.66	29.47	0.281
G12	FAM	COX1	Unkn-47	Muscle 3hr C6	33.99	33.68	0.436
H01	FAM	COX1	Unkn-08	Gill 1hr C8	27.26	27.64	0.534
H02	FAM	COX1	Unkn-16	Gill 1hr E8	28.49	28.39	0.142
H03	FAM	COX1	Unkn-24	Gill 3hr C8	28.24	28.52	0.388
H04	FAM	COX1	Unkn-32	Gill 3hr E8	27.44	27.63	0.268
H05	FAM	COX1	Unkn-40	Mantle 3hr C3	29.20	29.50	0.414
H06	FAM	COX1	NTC		N/A	0.00	0.000
H07	FAM	COX1	Unkn-08	Gill 1hr C8	28.01	27.64	0.534
H08	FAM	COX1	Unkn-16	Gill 1hr E8	28.29	28.39	0.142
H09	FAM	COX1	Unkn-24	Gill 3hr C8	28.79	28.52	0.388
H10	FAM	COX1	Unkn-32	Gill 3hr E8	27.82	27.63	0.268
H11	FAM	COX1	Unkn-40	Mantle 3hr C3	29.79	29.50	0.414
H12	FAM	COX1	NTC		N/A	0.00	0.000

# Melt Curve

Step #: 5



## Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	FAM	COX1	Unkn-01	Gill 1hr C1	79.20
A02	FAM	COX1	Unkn-09	Gill 1hr E1	79.00
A03	FAM	COX1	Unkn-17	Gill 3hr C1	79.00
A04	FAM	COX1	Unkn-25	Gill 3hr E1	79.00
A05	FAM	COX1	Unkn-33	Dg/Gonad 3hr C1	79.00
A06	FAM	COX1	Unkn-41	Mantle 3hr C4	79.00
A07	FAM	COX1	Unkn-01	Gill 1hr C1	79.00
A08	FAM	COX1	Unkn-09	Gill 1hr E1	79.00
A09	FAM	COX1	Unkn-17	Gill 3hr C1	79.20
A10	FAM	COX1	Unkn-25	Gill 3hr E1	79.20
A11	FAM	COX1	Unkn-33	Dg/Gonad 3hr C1	79.00
A12	FAM	COX1	Unkn-41	Mantle 3hr C4	79.20
B01	FAM	COX1	Unkn-02	Gill 1hr C2	79.20
B02	FAM	COX1	Unkn-10	Gill 1hr E2	79.00
B03	FAM	COX1	Unkn-18	Gill 3hr C2	79.00
B04	FAM	COX1	Unkn-26	Gill 3hr E2	79.00
B05	FAM	COX1	Unkn-34	Dg/Gonad 3hr C2	79.00
B06	FAM	COX1	Unkn-42	Mantle 3hr C6	79.00
B07	FAM	COX1	Unkn-02	Gill 1hr C2	79.00
B08	FAM	COX1	Unkn-10	Gill 1hr E2	79.00
B09	FAM	COX1	Unkn-18	Gill 3hr C2	79.00
B10	FAM	COX1	Unkn-26	Gill 3hr E2	79.00
B11	FAM	COX1	Unkn-34	Dg/Gonad 3hr C2	79.00
B12	FAM	COX1	Unkn-42	Mantle 3hr C6	79.20
C01	FAM	COX1	Unkn-03	Gill 1hr C3	79.20
C02	FAM	COX1	Unkn-11	Gill 1hr E3	79.00
C03	FAM	COX1	Unkn-19	Gill 3hr C3	79.00
C04	FAM	COX1	Unkn-27	Gill 3hr E3	79.00
C05	FAM	COX1	Unkn-35	Dg/Gonad 3hr C3	79.00
C06	FAM	COX1	Unkn-43	Muscle 3hr C1	79.00
C07	FAM	COX1	Unkn-03	Gill 1hr C3	79.00
C08	FAM	COX1	Unkn-11	Gill 1hr E3	79.00
C09	FAM	COX1	Unkn-19	Gill 3hr C3	79.00
C10	FAM	COX1	Unkn-27	Gill 3hr E3	79.00
C11	FAM	COX1	Unkn-35	Dg/Gonad 3hr C3	79.00
C12	FAM	COX1	Unkn-43	Muscle 3hr C1	79.20
D01	FAM	COX1	Unkn-04	Gill 1hr C4	79.20
D02	FAM	COX1	Unkn-12	Gill 1hr E4	79.20
D03	FAM	COX1	Unkn-20	Gill 3hr C4	79.00
D04	FAM	COX1	Unkn-28	Gill 3hr E4	79.00
D05	FAM	COX1	Unkn-36	Dg/Gonad 3hr C4	79.00
D06	FAM	COX1	Unkn-44	Muscle 3hr C2	79.00
D07	FAM	COX1	Unkn-04	Gill 1hr C4	79.00
D08	FAM	COX1	Unkn-12	Gill 1hr E4	79.00
D09	FAM	COX1	Unkn-20	Gill 3hr C4	79.00
D10	FAM	COX1	Unkn-28	Gill 3hr E4	79.00
D11	FAM	COX1	Unkn-36	Dg/Gonad 3hr C4	79.20
D12	FAM	COX1	Unkn-44	Muscle 3hr C2	79.20

Well	Fluor	Target	Content	Sample	Melt Temp
E01	FAM	COX1	Unkn-05	Gill 1hr C5	79.20
E02	FAM	COX1	Unkn-13	Gill 1hr E5	79.20
E03	FAM	COX1	Unkn-21	Gill 3hr C5	79.20
E04	FAM	COX1	Unkn-29	Gill 3hr E5	79.00
E05	FAM	COX1	Unkn-37	Dg/Gonad 3hr C6	79.00
E06	FAM	COX1	Unkn-45	Muscle 3hr C3	79.00
E07	FAM	COX1	Unkn-05	Gill 1hr C5	79.00
E08	FAM	COX1	Unkn-13	Gill 1hr E5	79.00
E09	FAM	COX1	Unkn-21	Gill 3hr C5	79.00
E10	FAM	COX1	Unkn-29	Gill 3hr E5	79.00
E11	FAM	COX1	Unkn-37	Dg/Gonad 3hr C6	79.20
E12	FAM	COX1	Unkn-45	Muscle 3hr C3	79.20
F01	FAM	COX1	Unkn-06	Gill 1hr C6	79.20
F02	FAM	COX1	Unkn-14	Gill 1hr E6	79.20
F03	FAM	COX1	Unkn-22	Gill 3hr C6	79.00
F04	FAM	COX1	Unkn-30	Gill 3hr E6	79.00
F05	FAM	COX1	Unkn-38	Mantle 3hr C1	79.00
F06	FAM	COX1	Unkn-46	Muscle 3hr C4	79.00
F07	FAM	COX1	Unkn-06	Gill 1hr C6	79.00
F08	FAM	COX1	Unkn-14	Gill 1hr E6	79.00
F09	FAM	COX1	Unkn-22	Gill 3hr C6	79.00
F10	FAM	COX1	Unkn-30	Gill 3hr E6	79.00
F11	FAM	COX1	Unkn-38	Mantle 3hr C1	79.00
F12	FAM	COX1	Unkn-46	Muscle 3hr C4	79.00
G01	FAM	COX1	Unkn-07	Gill 1hr C7	79.20
G02	FAM	COX1	Unkn-15	Gill 1hr E7	79.00
G03	FAM	COX1	Unkn-23	Gill 3hr C7	79.00
G04	FAM	COX1	Unkn-31	Gill 3hr E7	79.00
G05	FAM	COX1	Unkn-39	Mantle 3hr C2	79.00
G06	FAM	COX1	Unkn-47	Muscle 3hr C6	79.00
G07	FAM	COX1	Unkn-07	Gill 1hr C7	79.00
G08	FAM	COX1	Unkn-15	Gill 1hr E7	79.00
G09	FAM	COX1	Unkn-23	Gill 3hr C7	79.00
G10	FAM	COX1	Unkn-31	Gill 3hr E7	79.00
G11	FAM	COX1	Unkn-39	Mantle 3hr C2	79.00
G12	FAM	COX1	Unkn-47	Muscle 3hr C6	79.00
H01	FAM	COX1	Unkn-08	Gill 1hr C8	79.20
H02	FAM	COX1	Unkn-16	Gill 1hr E8	79.00
H03	FAM	COX1	Unkn-24	Gill 3hr C8	79.00
H04	FAM	COX1	Unkn-32	Gill 3hr E8	79.00
H05	FAM	COX1	Unkn-40	Mantle 3hr C3	79.00
H06	FAM	COX1	NTC		None
H07	FAM	COX1	Unkn-08	Gill 1hr C8	79.00
H08	FAM	COX1	Unkn-16	Gill 1hr E8	79.00
H09	FAM	COX1	Unkn-24	Gill 3hr C8	79.00
H10	FAM	COX1	Unkn-32	Gill 3hr E8	79.00
H11	FAM	COX1	Unkn-40	Mantle 3hr C3	79.00
H12	FAM	COX1	NTC		None



## QC Parameters

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	
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	FAM:A5, A6, A11, A12, B3, B4, B5, B6, B9, B10, B11, B12, C3, C9, D3, D9, E3, E6, E9, E12, F1, F3, F6, F7, F9, F12, G1, G3, G5, G6, G7, G9, G11, G12, H1, H3, H4, H5, H7, H9, H10, H11.	False	