



# Roberts Lab\_2011-06-03 14-06-39\_CC009827.pcrd

6/8/2011 11:13 AM

## Report Information

User: BioRad/Roberts Lab  
Data File Name: Roberts Lab\_2011-06-03 14-06-39\_CC009827.pcrd  
Data File Path: C:\Users\srlab\Dropbox\Roberts Lab CFX96 Data (7)\Sam  
Well Group Name: All Wells  
Report Differs from Last Save: No

## Run Setup

### Run Information

Run User: Roberts Lab  
Run Date: 6/3/2011 2:07 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 95.0°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 GAPDH Gill 1hr C1	Unk GAPDH Gill 1hr E1	Unk GAPDH Gill 3hr C1	Unk GAPDH Gill 3hr E1	Unk GAPDH Dg/Gon ad 3hr C1	Unk GAPDH Mantle 3hr C4	Std-1 COX1	Std-1 COX1	Std-8 COX2	Std-8 COX2	Std-15 GAPDH	Std-15 GAPDH
B	Unk GAPDH Gill 1hr C2	Unk GAPDH Gill 1hr E2	Unk GAPDH Gill 3hr C2	Unk GAPDH Gill 3hr E2	Unk GAPDH Dg/Gon ad 3hr C2	Unk GAPDH Mantle 3hr C6	Std-2 COX1	Std-2 COX1	Std-9 COX2	Std-9 COX2	Std-16 GAPDH	Std-16 GAPDH

	1	2	3	4	5	6	7	8	9	10	11	12
C	Unk GAPDH Gill 1hr C3	Unk GAPDH Gill 1hr E3	Unk GAPDH Gill 3hr C3	Unk GAPDH Gill 3hr E3	Unk GAPDH Dg/Gon ad 3hr C3	Unk GAPDH Muscle 3hr C1	Std-3 COX1	Std-3 COX1	Std-10 COX2	Std-10 COX2	Std-17 GAPDH	Std-17 GAPDH
D	Unk GAPDH Gill 1hr C4	Unk GAPDH Gill 1hr E4	Unk GAPDH Gill 3hr C4	Unk GAPDH Gill 3hr E4	Unk GAPDH Dg/Gon ad 3hr C4	Unk GAPDH Muscle 3hr C2	Std-4 COX1	Std-4 COX1	Std-11 COX2	Std-11 COX2	Std-18 GAPDH	Std-18 GAPDH
E	Unk GAPDH Gill 1hr C5	Unk GAPDH Gill 1hr E5	Unk GAPDH Gill 3hr C5	Unk GAPDH Gill 3hr E5	Unk GAPDH Dg/Gon ad 3hr C6	Unk GAPDH Muscle 3hr C3	Std-5 COX1	Std-5 COX1	Std-12 COX2	Std-12 COX2	Std-19 GAPDH	Std-19 GAPDH
F	Unk GAPDH Gill 1hr C6	Unk GAPDH Gill 1hr E6	Unk GAPDH Gill 3hr C6	Unk GAPDH Gill 3hr E6	Unk GAPDH Mantle 3hr C1	Unk GAPDH Muscle 3hr C4	Std-6 COX1	Std-6 COX1	Std-13 COX2	Std-13 COX2	Std-20 GAPDH	Std-20 GAPDH
G	Unk GAPDH Gill 1hr C7	Unk GAPDH Gill 1hr E7	Unk GAPDH Gill 3hr C7	Unk GAPDH Gill 3hr E7	Unk GAPDH Mantle 3hr C2	Unk GAPDH Muscle 3hr C6	Std-7 COX1	Std-7 COX1	Std-14 COX2	Std-14 COX2	Std-21 GAPDH	Std-21 GAPDH
H	Unk GAPDH Gill 1hr C8	Unk GAPDH Gill 1hr E8	Unk GAPDH Gill 3hr C8	Unk GAPDH Gill 3hr E8	Unk GAPDH Mantle 3hr C3	NTC GAPDH	NTC COX1	NTC COX1	NTC COX2	NTC COX2	NTC GAPDH	NTC GAPDH

## Quantification

Step #: 3

Analysis Mode: Target

Cq Determination: Single Threshold

Baseline Method:

COX2: Auto Calculated

GAPDH: Auto Calculated

COX1: Auto Calculated

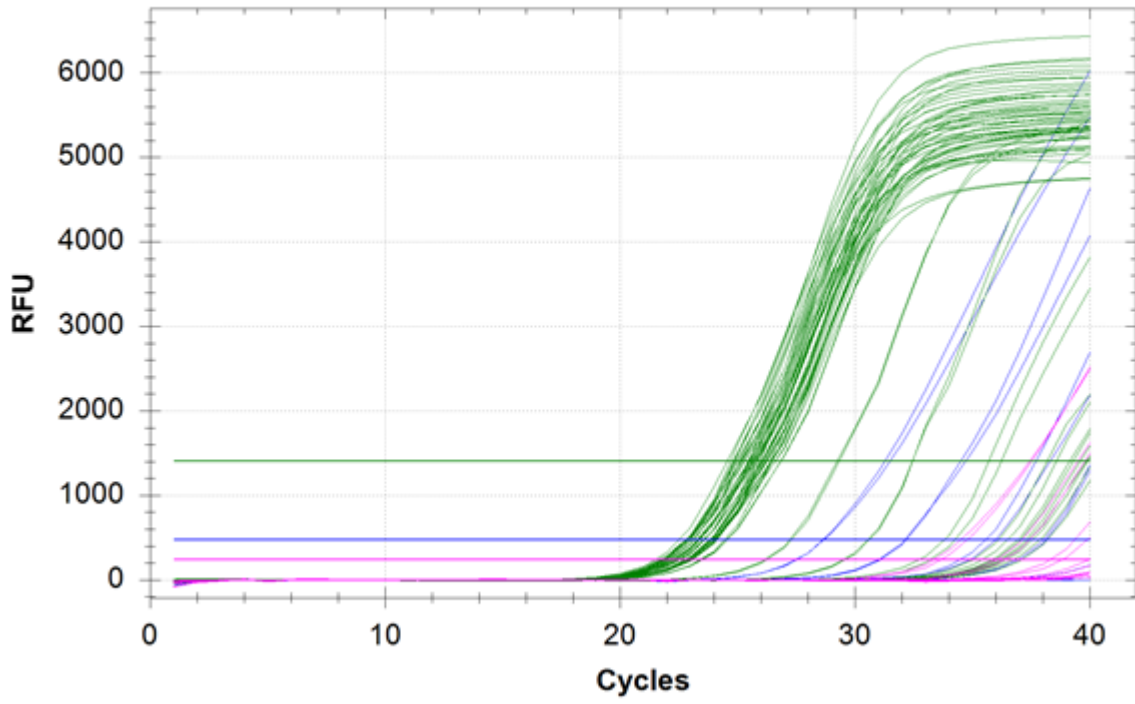
Threshold Setting:

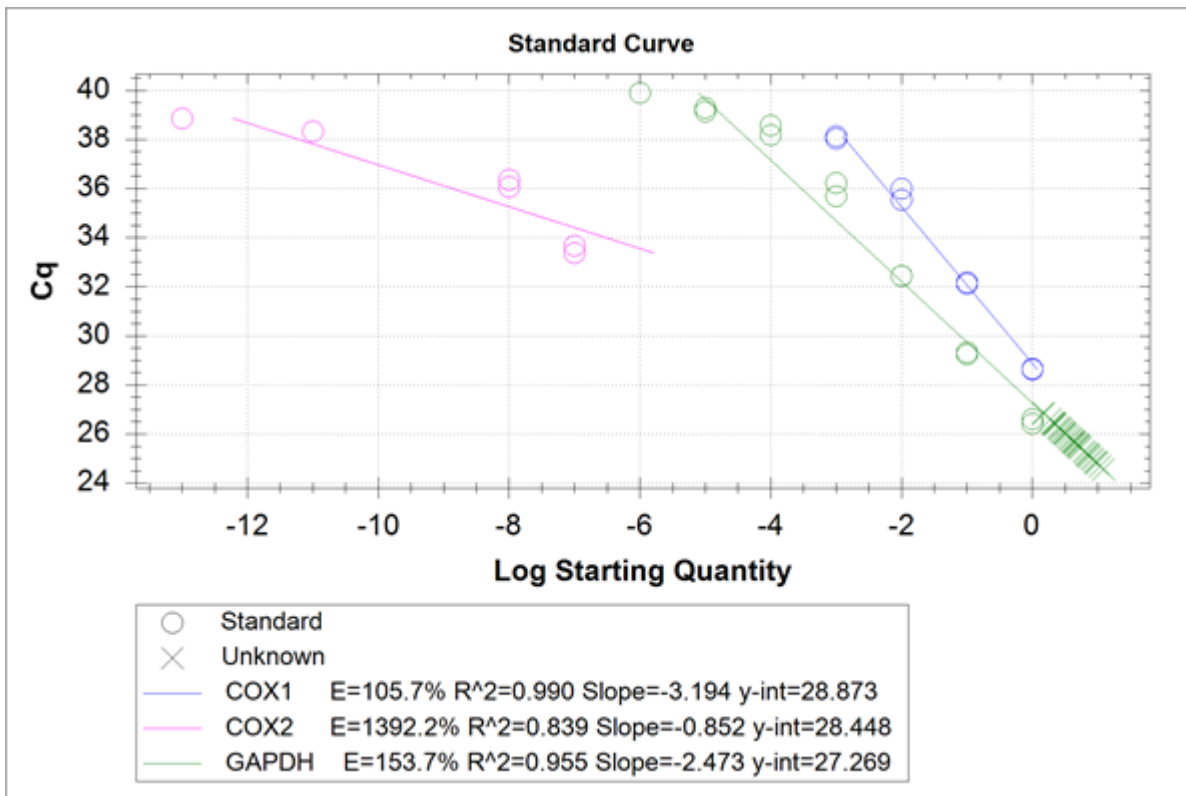
COX2: 247.71, Auto Calculated

GAPDH: 1410.20, Auto Calculated

COX1: 477.42, Auto Calculated

### Amplification





### Quantification Data

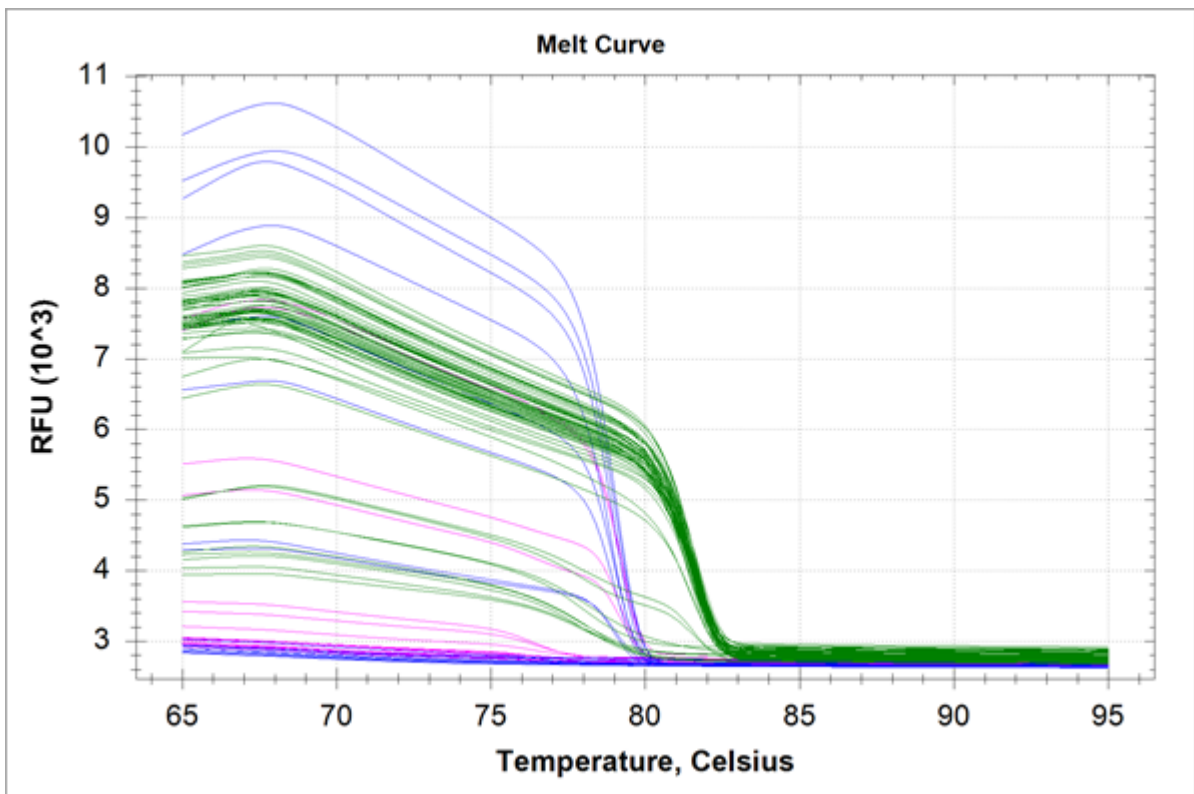
Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev	Starting Quantity (SQ)	Log Starting Quantity	SQ Mean	SQ Std. Dev
A01	FAM	GAPDH	Unkn	Gill 1hr C1	25.63	25.63	0.000	4.602E+00	0.663	4.60E+00	0.00E+00
A02	FAM	GAPDH	Unkn	Gill 1hr E1	26.47	26.47	0.000	2.100E+00	0.322	2.10E+00	0.00E+00
A03	FAM	GAPDH	Unkn	Gill 3hr C1	25.48	25.48	0.000	5.296E+00	0.724	5.30E+00	0.00E+00
A04	FAM	GAPDH	Unkn	Gill 3hr E1	25.67	25.67	0.000	4.443E+00	0.648	4.44E+00	0.00E+00
A05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C1	26.84	26.84	0.000	1.492E+00	0.174	1.49E+00	0.00E+00
A06	FAM	GAPDH	Unkn	Mantle 3hr C4	26.60	26.60	0.000	1.856E+00	0.269	1.86E+00	0.00E+00
A07	FAM	COX1	Std-01		28.66	28.65	0.021	1.000E+00	0.000	1.00E+00	0.00E+00
A08	FAM	COX1	Std-01		28.63	28.65	0.021	1.000E+00	0.000	1.00E+00	0.00E+00
A09	FAM	COX2	Std-08		33.38	33.53	0.211	1.000E-07	-7.000	1.00E-07	0.00E+00
A10	FAM	COX2	Std-08		33.68	33.53	0.211	1.000E-07	-7.000	1.00E-07	0.00E+00
A11	FAM	GAPDH	Std-15		26.43	26.52	0.131	1.000E+00	0.000	1.00E+00	0.00E+00
A12	FAM	GAPDH	Std-15		26.61	26.52	0.131	1.000E+00	0.000	1.00E+00	0.00E+00
B01	FAM	GAPDH	Unkn	Gill 1hr C2	25.57	25.57	0.000	4.848E+00	0.686	4.85E+00	0.00E+00
B02	FAM	GAPDH	Unkn	Gill 1hr E2	26.15	26.15	0.000	2.836E+00	0.453	2.84E+00	0.00E+00
B03	FAM	GAPDH	Unkn	Gill 3hr C2	25.19	25.19	0.000	6.926E+00	0.840	6.93E+00	0.00E+00
B04	FAM	GAPDH	Unkn	Gill 3hr E2	25.32	25.32	0.000	6.162E+00	0.790	6.16E+00	0.00E+00
B05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C2	26.42	26.42	0.000	2.207E+00	0.344	2.21E+00	0.00E+00
B06	FAM	GAPDH	Unkn	Mantle 3hr C6	26.44	26.44	0.000	2.172E+00	0.337	2.17E+00	0.00E+00
B07	FAM	COX1	Std-02		32.12	32.15	0.042	1.000E-01	-1.000	1.00E-01	0.00E+00
B08	FAM	COX1	Std-02		32.18	32.15	0.042	1.000E-01	-1.000	1.00E-01	0.00E+00
B09	FAM	COX2	Std-09		36.37	36.22	0.207	1.000E-08	-8.000	1.00E-08	0.00E+00
B10	FAM	COX2	Std-09		36.07	36.22	0.207	1.000E-08	-8.000	1.00E-08	0.00E+00
B11	FAM	GAPDH	Std-16		29.33	29.29	0.062	1.000E-01	-1.000	1.00E-01	0.00E+00
B12	FAM	GAPDH	Std-16		29.24	29.29	0.062	1.000E-01	-1.000	1.00E-01	0.00E+00
C01	FAM	GAPDH	Unkn	Gill 1hr C3	25.73	25.73	0.000	4.197E+00	0.623	4.20E+00	0.00E+00

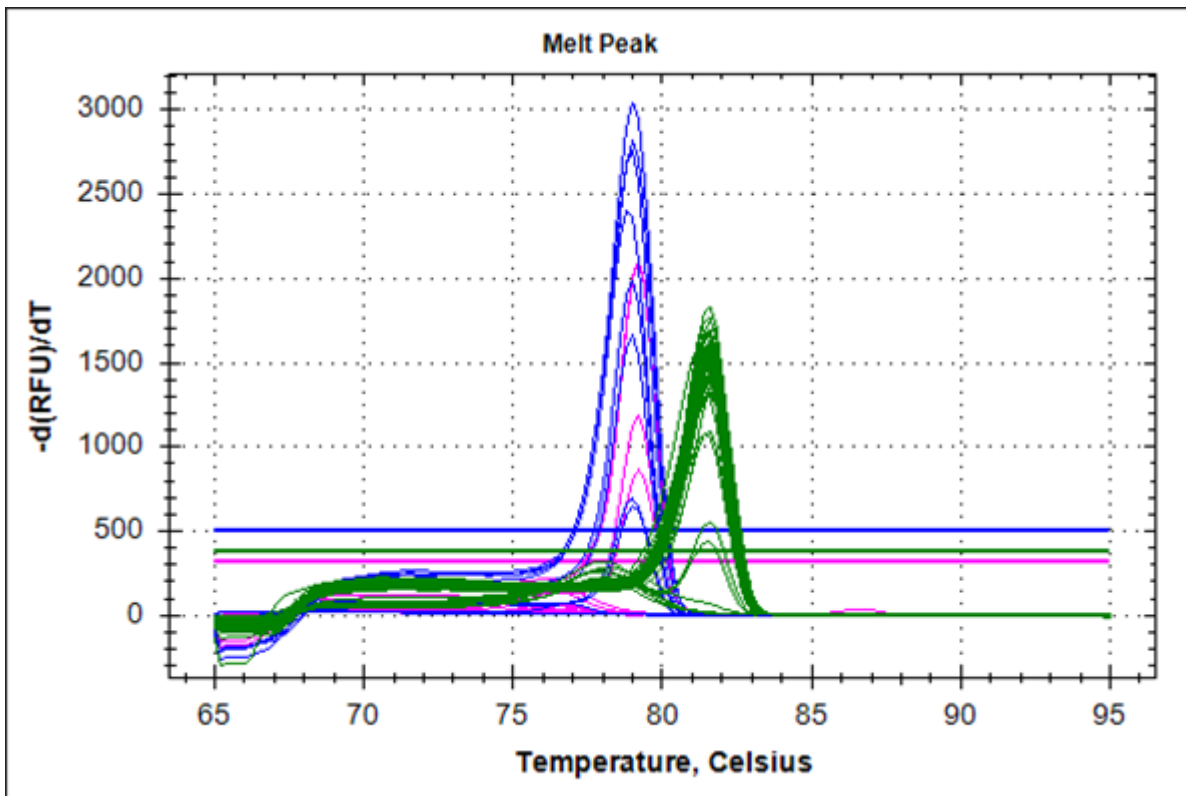
Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev	Starting Quantity (SQ)	Log Starting Quantity	SQ Mean	SQ Std. Dev
C02	FAM	GAPDH	Unkn	Gill 1hr E3	25.80	25.80	0.000	3.929E+00	0.594	3.93E+00	0.00E+00
C03	FAM	GAPDH	Unkn	Gill 3hr C3	26.20	26.20	0.000	2.693E+00	0.430	2.69E+00	0.00E+00
C04	FAM	GAPDH	Unkn	Gill 3hr E3	26.86	26.86	0.000	1.470E+00	0.167	1.47E+00	0.00E+00
C05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C3	26.05	26.05	0.000	3.120E+00	0.494	3.12E+00	0.00E+00
C06	FAM	GAPDH	Unkn	Muscle 3hr C1	26.06	26.06	0.000	3.091E+00	0.490	3.09E+00	0.00E+00
C07	FAM	COX1	Std-03		35.54	35.77	0.323	1.000E-02	-2.000	1.00E-02	0.00E+00
C08	FAM	COX1	Std-03		36.00	35.77	0.323	1.000E-02	-2.000	1.00E-02	0.00E+00
C09	FAM	COX2	Std-10		N/A	0.00	0.000	1.000E-09	-9.000	0.00E+00	0.00E+00
C10	FAM	COX2	Std-10		N/A	0.00	0.000	1.000E-09	-9.000	0.00E+00	0.00E+00
C11	FAM	GAPDH	Std-17		32.44	32.45	0.005	1.000E-02	-2.000	1.00E-02	0.00E+00
C12	FAM	GAPDH	Std-17		32.45	32.45	0.005	1.000E-02	-2.000	1.00E-02	0.00E+00
D01	FAM	GAPDH	Unkn	Gill 1hr C4	25.71	25.71	0.000	4.260E+00	0.629	4.26E+00	0.00E+00
D02	FAM	GAPDH	Unkn	Gill 1hr E4	26.02	26.02	0.000	3.207E+00	0.506	3.21E+00	0.00E+00
D03	FAM	GAPDH	Unkn	Gill 3hr C4	26.29	26.29	0.000	2.493E+00	0.397	2.49E+00	0.00E+00
D04	FAM	GAPDH	Unkn	Gill 3hr E4	25.26	25.26	0.000	6.462E+00	0.810	6.46E+00	0.00E+00
D05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C4	26.48	26.48	0.000	2.089E+00	0.320	2.09E+00	0.00E+00
D06	FAM	GAPDH	Unkn	Muscle 3hr C2	24.97	24.97	0.000	8.505E+00	0.930	8.50E+00	0.00E+00
D07	FAM	COX1	Std-04		38.14	38.08	0.074	1.000E-03	-3.000	1.00E-03	0.00E+00
D08	FAM	COX1	Std-04		38.03	38.08	0.074	1.000E-03	-3.000	1.00E-03	0.00E+00
D09	FAM	COX2	Std-11		N/A	0.00	0.000	1.000E-10	-10.000	0.00E+00	0.00E+00
D10	FAM	COX2	Std-11		N/A	0.00	0.000	1.000E-10	-10.000	0.00E+00	0.00E+00
D11	FAM	GAPDH	Std-18		35.69	35.96	0.380	1.000E-03	-3.000	1.00E-03	0.00E+00
D12	FAM	GAPDH	Std-18		36.23	35.96	0.380	1.000E-03	-3.000	1.00E-03	0.00E+00
E01	FAM	GAPDH	Unkn	Gill 1hr C5	25.52	25.52	0.000	5.096E+00	0.707	5.10E+00	0.00E+00
E02	FAM	GAPDH	Unkn	Gill 1hr E5	26.24	26.24	0.000	2.618E+00	0.418	2.62E+00	0.00E+00
E03	FAM	GAPDH	Unkn	Gill 3hr C5	25.01	25.01	0.000	8.174E+00	0.912	8.17E+00	0.00E+00
E04	FAM	GAPDH	Unkn	Gill 3hr E5	26.11	26.11	0.000	2.954E+00	0.470	2.95E+00	0.00E+00
E05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C6	26.04	26.04	0.000	3.134E+00	0.496	3.13E+00	0.00E+00
E06	FAM	GAPDH	Unkn	Muscle 3hr C3	25.17	25.17	0.000	7.062E+00	0.849	7.06E+00	0.00E+00
E07	FAM	COX1	Std-05		N/A	0.00	0.000	1.000E-04	-4.000	0.00E+00	0.00E+00
E08	FAM	COX1	Std-05		N/A	0.00	0.000	1.000E-04	-4.000	0.00E+00	0.00E+00
E09	FAM	COX2	Std-12		N/A	0.00	0.000	1.000E-11	-11.000	0.00E+00	0.00E+00
E10	FAM	COX2	Std-12		38.33	38.33	0.000	1.000E-11	-11.000	1.00E-11	0.00E+00
E11	FAM	GAPDH	Std-19		38.18	38.38	0.277	1.000E-04	-4.000	1.00E-04	0.00E+00
E12	FAM	GAPDH	Std-19		38.58	38.38	0.277	1.000E-04	-4.000	1.00E-04	0.00E+00
F01	FAM	GAPDH	Unkn	Gill 1hr C6	25.67	25.67	0.000	4.412E+00	0.645	4.41E+00	0.00E+00
F02	FAM	GAPDH	Unkn	Gill 1hr E6	25.10	25.10	0.000	7.555E+00	0.878	7.55E+00	0.00E+00
F03	FAM	GAPDH	Unkn	Gill 3hr C6	24.85	24.85	0.000	9.478E+00	0.977	9.48E+00	0.00E+00
F04	FAM	GAPDH	Unkn	Gill 3hr E6	25.90	25.90	0.000	3.591E+00	0.555	3.59E+00	0.00E+00
F05	FAM	GAPDH	Unkn	Mantle 3hr C1	25.45	25.45	0.000	5.444E+00	0.736	5.44E+00	0.00E+00
F06	FAM	GAPDH	Unkn	Muscle 3hr C4	24.89	24.89	0.000	9.168E+00	0.962	9.17E+00	0.00E+00
F07	FAM	COX1	Std-06		N/A	0.00	0.000	1.000E-05	-5.000	0.00E+00	0.00E+00
F08	FAM	COX1	Std-06		N/A	0.00	0.000	1.000E-05	-5.000	0.00E+00	0.00E+00
F09	FAM	COX2	Std-13		N/A	0.00	0.000	1.000E-12	-12.000	0.00E+00	0.00E+00
F10	FAM	COX2	Std-13		N/A	0.00	0.000	1.000E-12	-12.000	0.00E+00	0.00E+00
F11	FAM	GAPDH	Std-20		39.29	39.22	0.103	1.000E-05	-5.000	1.00E-05	0.00E+00
F12	FAM	GAPDH	Std-20		39.15	39.22	0.103	1.000E-05	-5.000	1.00E-05	0.00E+00
G01	FAM	GAPDH	Unkn	Gill 1hr C7	25.13	25.13	0.000	7.352E+00	0.866	7.35E+00	0.00E+00
G02	FAM	GAPDH	Unkn	Gill 1hr E7	25.79	25.79	0.000	3.960E+00	0.598	3.96E+00	0.00E+00

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev	Starting Quantity (SQ)	Log Starting Quantity	SQ Mean	SQ Std. Dev
G03	FAM	GAPDH	Unkn	Gill 3hr C7	24.82	24.82	0.000	9.800E+00	0.991	9.80E+00	0.00E+00
G04	FAM	GAPDH	Unkn	Gill 3hr E7	26.04	26.04	0.000	3.138E+00	0.497	3.14E+00	0.00E+00
G05	FAM	GAPDH	Unkn	Mantle 3hr C2	25.55	25.55	0.000	4.940E+00	0.694	4.94E+00	0.00E+00
G06	FAM	GAPDH	Unkn	Muscle 3hr C6	25.83	25.83	0.000	3.818E+00	0.582	3.82E+00	0.00E+00
G07	FAM	COX1	Std-07		N/A	0.00	0.000	1.000E-06	-6.000	0.00E+00	0.00E+00
G08	FAM	COX1	Std-07		N/A	0.00	0.000	1.000E-06	-6.000	0.00E+00	0.00E+00
G09	FAM	COX2	Std-14		N/A	0.00	0.000	1.000E-13	-13.000	0.00E+00	0.00E+00
G10	FAM	COX2	Std-14		38.86	38.86	0.000	1.000E-13	-13.000	1.00E-13	0.00E+00
G11	FAM	GAPDH	Std-21		39.90	39.90	0.000	1.000E-06	-6.000	1.00E-06	0.00E+00
G12	FAM	GAPDH	Std-21		N/A	0.00	0.000	1.000E-06	-6.000	0.00E+00	0.00E+00
H01	FAM	GAPDH	Unkn	Gill 1hr C8	24.57	24.57	0.000	1.236E+01	1.092	1.24E+01	0.00E+00
H02	FAM	GAPDH	Unkn	Gill 1hr E8	24.70	24.70	0.000	1.088E+01	1.037	1.09E+01	0.00E+00
H03	FAM	GAPDH	Unkn	Gill 3hr C8	26.40	26.40	0.000	2.237E+00	0.350	2.24E+00	0.00E+00
H04	FAM	GAPDH	Unkn	Gill 3hr E8	25.97	25.97	0.000	3.361E+00	0.527	3.36E+00	0.00E+00
H05	FAM	GAPDH	Unkn	Mantle 3hr C3	25.48	25.48	0.000	5.282E+00	0.723	5.28E+00	0.00E+00
H06	FAM	GAPDH	NTC		39.59	39.59	0.000	N/A	N/A	N/A	0.00E+00
H07	FAM	COX1	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
H08	FAM	COX1	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
H09	FAM	COX2	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
H10	FAM	COX2	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
H11	FAM	GAPDH	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
H12	FAM	GAPDH	NTC		39.86	39.86	0.000	N/A	N/A	N/A	0.00E+00

## Melt Curve

Step #: 5





### Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	FAM	GAPDH	Unkn	Gill 1hr C1	81.60
A02	FAM	GAPDH	Unkn	Gill 1hr E1	81.60
A03	FAM	GAPDH	Unkn	Gill 3hr C1	81.60
A04	FAM	GAPDH	Unkn	Gill 3hr E1	81.60
A05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C1	81.60
A06	FAM	GAPDH	Unkn	Mantle 3hr C4	81.60
A07	FAM	COX1	Std-01		79.00
A08	FAM	COX1	Std-01		79.00
A09	FAM	COX2	Std-08		79.20
A10	FAM	COX2	Std-08		79.20
A11	FAM	GAPDH	Std-15		81.60
A12	FAM	GAPDH	Std-15		81.60
B01	FAM	GAPDH	Unkn	Gill 1hr C2	81.60
B02	FAM	GAPDH	Unkn	Gill 1hr E2	81.60
B03	FAM	GAPDH	Unkn	Gill 3hr C2	81.60
B04	FAM	GAPDH	Unkn	Gill 3hr E2	81.60
B05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C2	81.60
B06	FAM	GAPDH	Unkn	Mantle 3hr C6	81.60
B07	FAM	COX1	Std-02		78.80
B08	FAM	COX1	Std-02		79.00
B09	FAM	COX2	Std-09		79.20
B10	FAM	COX2	Std-09		79.20
B11	FAM	GAPDH	Std-16		81.40
B12	FAM	GAPDH	Std-16		81.40
C01	FAM	GAPDH	Unkn	Gill 1hr C3	81.60

Well	Fluor	Target	Content	Sample	Melt Temp
C02	FAM	GAPDH	Unkn	Gill 1hr E3	81.60
C03	FAM	GAPDH	Unkn	Gill 3hr C3	81.60
C04	FAM	GAPDH	Unkn	Gill 3hr E3	81.60
C05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C3	81.80
C06	FAM	GAPDH	Unkn	Muscle 3hr C1	81.60
C07	FAM	COX1	Std-03		79.00
C08	FAM	COX1	Std-03		79.00
C09	FAM	COX2	Std-10		None
C10	FAM	COX2	Std-10		None
C11	FAM	GAPDH	Std-17		81.40
C12	FAM	GAPDH	Std-17		81.40
D01	FAM	GAPDH	Unkn	Gill 1hr C4	81.80
D02	FAM	GAPDH	Unkn	Gill 1hr E4	81.60
D03	FAM	GAPDH	Unkn	Gill 3hr C4	81.60
D04	FAM	GAPDH	Unkn	Gill 3hr E4	81.60
D05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C4	81.60
D06	FAM	GAPDH	Unkn	Muscle 3hr C2	81.60
D07	FAM	COX1	Std-04		79.00
D08	FAM	COX1	Std-04		79.00
D09	FAM	COX2	Std-11		None
D10	FAM	COX2	Std-11		None
D11	FAM	GAPDH	Std-18		81.40
D12	FAM	GAPDH	Std-18		81.60
E01	FAM	GAPDH	Unkn	Gill 1hr C5	81.80
E02	FAM	GAPDH	Unkn	Gill 1hr E5	81.60
E03	FAM	GAPDH	Unkn	Gill 3hr C5	81.60
E04	FAM	GAPDH	Unkn	Gill 3hr E5	81.60
E05	FAM	GAPDH	Unkn	Dg/Gonad 3hr C6	81.60
E06	FAM	GAPDH	Unkn	Muscle 3hr C3	81.60
E07	FAM	COX1	Std-05		None
E08	FAM	COX1	Std-05		None
E09	FAM	COX2	Std-12		None
E10	FAM	COX2	Std-12		None
E11	FAM	GAPDH	Std-19		81.60
E12	FAM	GAPDH	Std-19		81.60
F01	FAM	GAPDH	Unkn	Gill 1hr C6	81.60
F02	FAM	GAPDH	Unkn	Gill 1hr E6	81.60
F03	FAM	GAPDH	Unkn	Gill 3hr C6	81.60
F04	FAM	GAPDH	Unkn	Gill 3hr E6	81.20
F05	FAM	GAPDH	Unkn	Mantle 3hr C1	81.60
F06	FAM	GAPDH	Unkn	Muscle 3hr C4	81.60
F07	FAM	COX1	Std-06		None
F08	FAM	COX1	Std-06		None
F09	FAM	COX2	Std-13		None
F10	FAM	COX2	Std-13		None
F11	FAM	GAPDH	Std-20		None
F12	FAM	GAPDH	Std-20		None
G01	FAM	GAPDH	Unkn	Gill 1hr C7	81.60
G02	FAM	GAPDH	Unkn	Gill 1hr E7	81.60
G03	FAM	GAPDH	Unkn	Gill 3hr C7	81.60



Well	Fluor	Target	Content	Sample	Melt Temp
G04	FAM	GAPDH	Unkn	Gill 3hr E7	81.60
G05	FAM	GAPDH	Unkn	Mantle 3hr C2	81.60
G06	FAM	GAPDH	Unkn	Muscle 3hr C6	81.60
G07	FAM	COX1	Std-07		None
G08	FAM	COX1	Std-07		None
G09	FAM	COX2	Std-14		None
G10	FAM	COX2	Std-14		None
G11	FAM	GAPDH	Std-21		None
G12	FAM	GAPDH	Std-21		None
H01	FAM	GAPDH	Unkn	Gill 1hr C8	81.60
H02	FAM	GAPDH	Unkn	Gill 1hr E8	81.60
H03	FAM	GAPDH	Unkn	Gill 3hr C8	81.60
H04	FAM	GAPDH	Unkn	Gill 3hr E8	81.60
H05	FAM	GAPDH	Unkn	Mantle 3hr C3	81.60
H06	FAM	GAPDH	NTC		None
H07	FAM	COX1	NTC		None
H08	FAM	COX1	NTC		None
H09	FAM	COX2	NTC		None
H10	FAM	COX2	NTC		None
H11	FAM	GAPDH	NTC		None
H12	FAM	GAPDH	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	COX1:E7, E8, F7, F8, G7, G8. COX2:C9, C10, D9, D10, E9, F9, F10, G9. GAPDH:G12.	False	
Efficiency greater than	110.0	True	COX2, GAPDH		
Efficiency less than	90.0	True			
Std Curve R <sup>2</sup> less than	0.980	True	COX2, GAPDH		
Replicate group Cq Std Dev greater than	0.20	True	COX1:C7, C8. COX2:A9, A10, B9, B10. GAPDH:D11, D12, E11, E12.	False	