Roberts Lab_2011-03-15 11-35-42_CC009827.pcrd

3/15/2011 3:46 PM

Report Information

User: BioRad/Roberts Lab
Data File Name: Roberts Lab_2011-03-15 11-35-42_CC009827.pcrd
Data File Path: C:\Users\srlab\Documents\My 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: 3/15/2011 11:35 AM
ID:
Notes:
Sample Volume: 20
Temperature Control Mode: Calculated
Lid Temperature: 105
Base Serial Number: CC009827
Optical Head Serial Number: 785BR3659

Protocol

1: 95.0°C for 0:30
2: 95.0°C for 0:05
3: 55.0°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 0:02
Plate Read

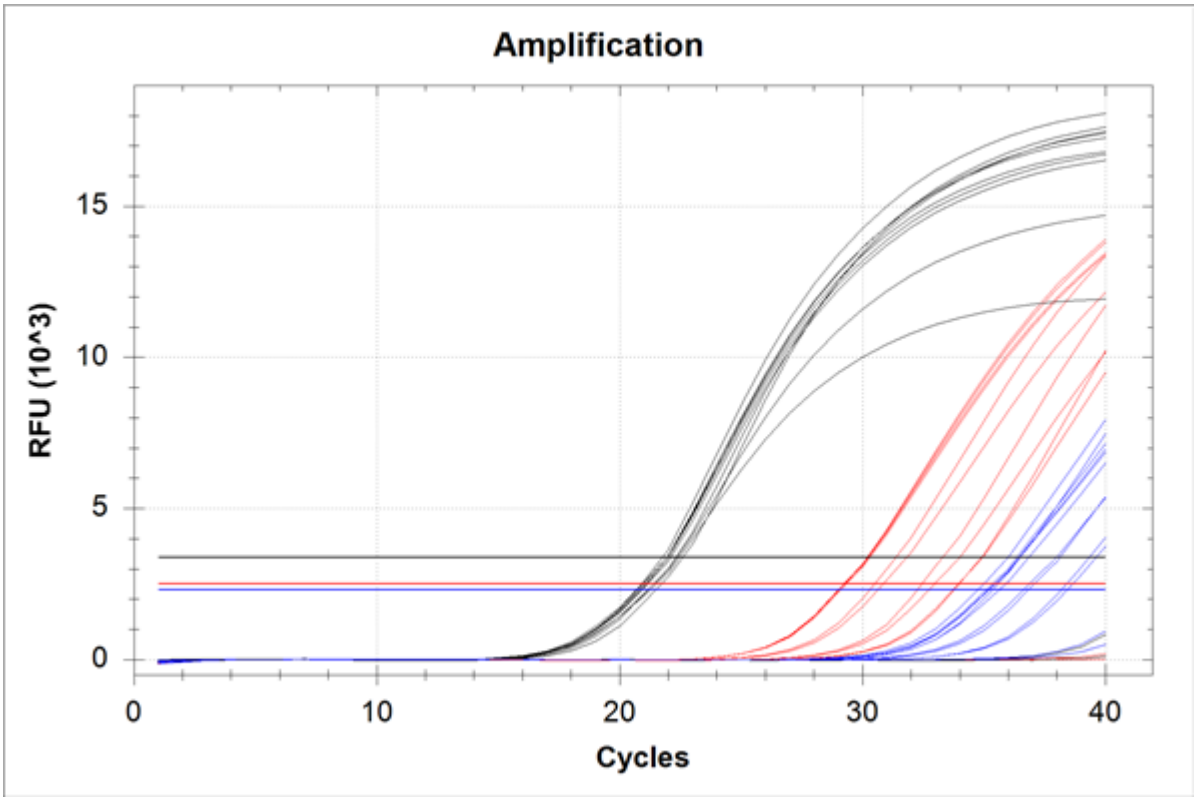
Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
A	Unk-1 EF1 Dg	Unk-2 EF1 Gill 1hr C	Unk-3 EF1 Gill 1hr E	Unk-4 EF1 Mantle	Unk-5 EF1 Muscle	NTC EF1						
B	Unk-1 EF1 Dg	Unk-2 EF1 Gill 1hr C	Unk-3 EF1 Gill 1hr E	Unk-4 EF1 Mantle	Unk-5 EF1 Muscle	NTC EF1						
C	Unk-6 COX1 Dg	Unk-7 COX1 Gill 1hr C	Unk-8 COX1 Gill 1hr E	Unk-9 COX1 Mantle	Unk-10 COX1 Muscle	NTC COX1						

	1	2	3	4	5	6	7	8	9	10	11	12
D	Unk-6 COX1 Dg	Unk-7 COX1 Gill 1hr C	Unk-8 COX1 Gill 1hr E	Unk-9 COX1 Mantle	Unk-10 COX1 Muscle	NTC COX1						
E	Unk-11 COX2 Dg	Unk-12 COX2 Gill 1hr C	Unk-13 COX2 Gill 1hr E	Unk-14 COX2 Mantle	Unk-15 COX2 Muscle	NTC COX2						
F	Unk-11 COX2 Dg	Unk-12 COX2 Gill 1hr C	Unk-13 COX2 Gill 1hr E	Unk-14 COX2 Mantle	Unk-15 COX2 Muscle	NTC COX2						
G												
H												

Quantification

Step #: 3
Analysis Mode: Target
Cq Determination: Single Threshold
Baseline Method:
COX2: Auto Calculated
EF1: Auto Calculated
COX1: Auto Calculated
Threshold Setting:
COX2: 2318.95, Auto Calculated
EF1: 3393.77, Auto Calculated
COX1: 2514.70, Auto Calculated



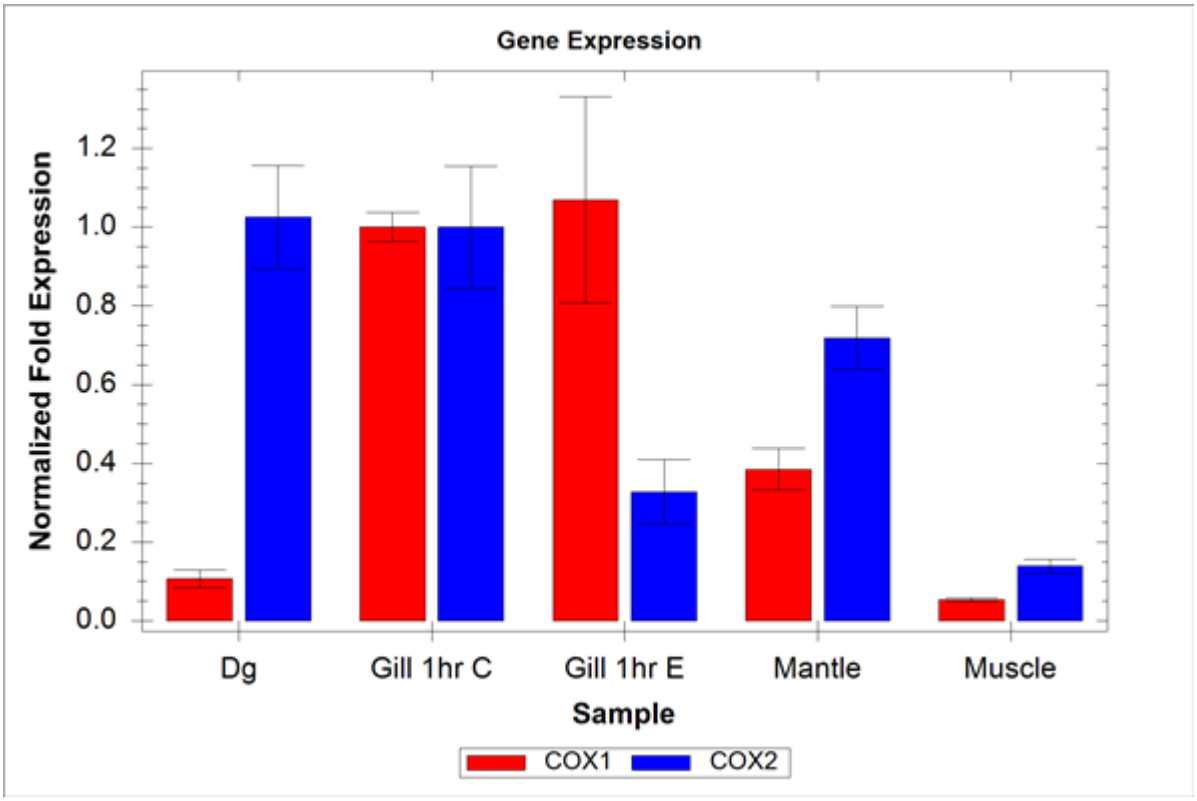
Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	FAM	EF1	Unkn-01	Dg	22.02	22.20	0.246
A02	FAM	EF1	Unkn-02	Gill 1hr C	22.02	21.97	0.069
A03	FAM	EF1	Unkn-03	Gill 1hr E	21.76	22.11	0.495
A04	FAM	EF1	Unkn-04	Mantle	22.11	22.02	0.124
A05	FAM	EF1	Unkn-05	Muscle	22.60	22.46	0.200
A06	FAM	EF1	NTC		N/A	0.00	0.000
B01	FAM	EF1	Unkn-01	Dg	22.37	22.20	0.246
B02	FAM	EF1	Unkn-02	Gill 1hr C	21.93	21.97	0.069
B03	FAM	EF1	Unkn-03	Gill 1hr E	22.46	22.11	0.495
B04	FAM	EF1	Unkn-04	Mantle	21.93	22.02	0.124
B05	FAM	EF1	Unkn-05	Muscle	22.32	22.46	0.200
B06	FAM	EF1	NTC		N/A	0.00	0.000
C01	FAM	COX1	Unkn-06	Dg	32.97	32.71	0.371
C02	FAM	COX1	Unkn-07	Gill 1hr C	29.24	29.26	0.031
C03	FAM	COX1	Unkn-08	Gill 1hr E	29.26	29.30	0.060
C04	FAM	COX1	Unkn-09	Mantle	30.86	30.68	0.250
C05	FAM	COX1	Unkn-10	Muscle	33.98	33.97	0.017
C06	FAM	COX1	NTC		N/A	0.00	0.000
D01	FAM	COX1	Unkn-06	Dg	32.45	32.71	0.371
D02	FAM	COX1	Unkn-07	Gill 1hr C	29.28	29.26	0.031
D03	FAM	COX1	Unkn-08	Gill 1hr E	29.34	29.30	0.060
D04	FAM	COX1	Unkn-09	Mantle	30.50	30.68	0.250
D05	FAM	COX1	Unkn-10	Muscle	33.96	33.97	0.017
D06	FAM	COX1	NTC		N/A	0.00	0.000
E01	FAM	COX2	Unkn-11	Dg	35.10	35.16	0.087
E02	FAM	COX2	Unkn-12	Gill 1hr C	34.76	34.98	0.309
E03	FAM	COX2	Unkn-13	Gill 1hr E	36.82	36.73	0.131
E04	FAM	COX2	Unkn-14	Mantle	35.63	35.50	0.193
E05	FAM	COX2	Unkn-15	Muscle	38.43	38.31	0.169
E06	FAM	COX2	NTC		N/A	0.00	0.000
F01	FAM	COX2	Unkn-11	Dg	35.22	35.16	0.087
F02	FAM	COX2	Unkn-12	Gill 1hr C	35.20	34.98	0.309
F03	FAM	COX2	Unkn-13	Gill 1hr E	36.64	36.73	0.131
F04	FAM	COX2	Unkn-14	Mantle	35.36	35.50	0.193
F05	FAM	COX2	Unkn-15	Muscle	38.19	38.31	0.169
F06	FAM	COX2	NTC		N/A	0.00	0.000

Gene Expression

Analysis Parameters

Analysis Mode: Normalized expression (ΔΔCq)
Chart Data: Relative to zero
Scaling options: Unscaled
Chart Error: ± 1.0 SEMs


Gene Expression
Normalized Fold Expression
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Dg
Gill 1hr C
Gill 1hr E
Mantle
Muscle
Sample
COX1
COX2

Target Names

Name	Full Name	Reference	Auto Efficiency	Efficiency
COX1	COX1	False	No	100.0%
COX2	COX2	False	No	100.0%
EF1	EF1	True	No	100.0%

Sample Names

Name	Full Name	Control
Dg	Dg	No
Gill 1hr C	Gill 1hr C	No
Gill 1hr E	Gill 1hr E	No
Mantle	Mantle	No
Muscle	Muscle	No

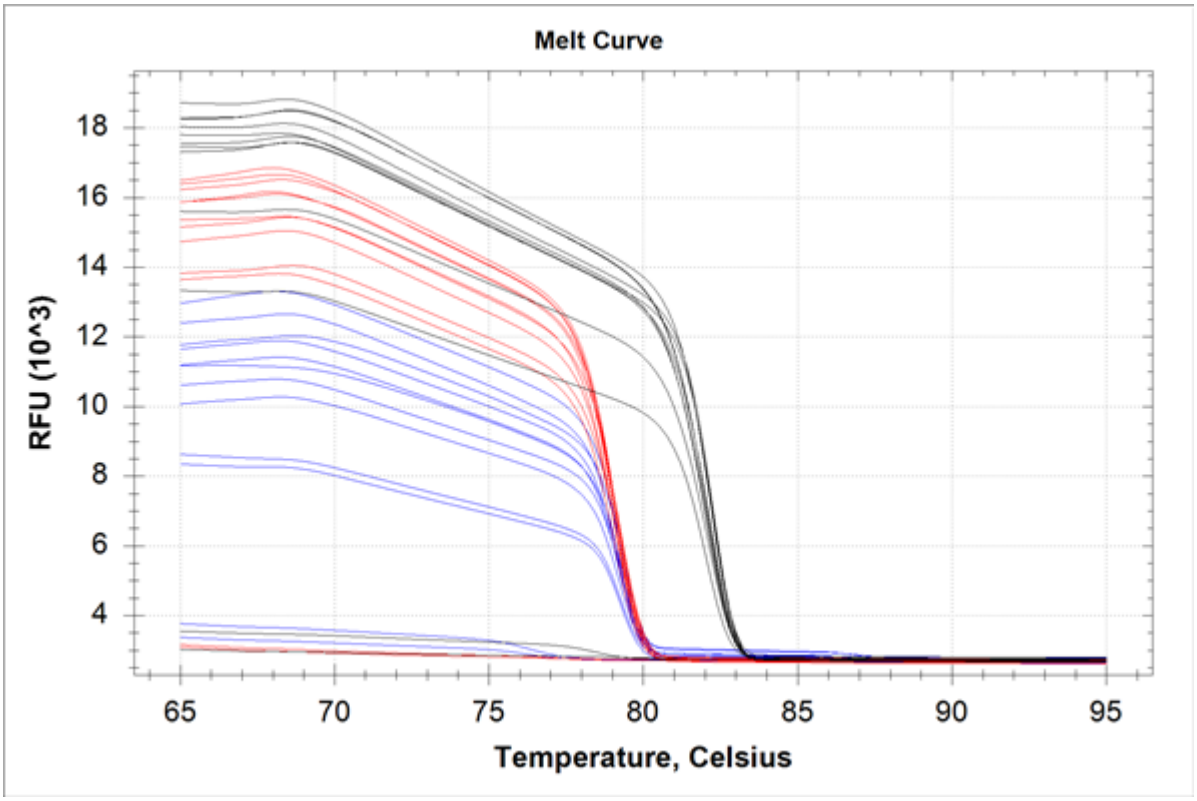
Gene Expression Data

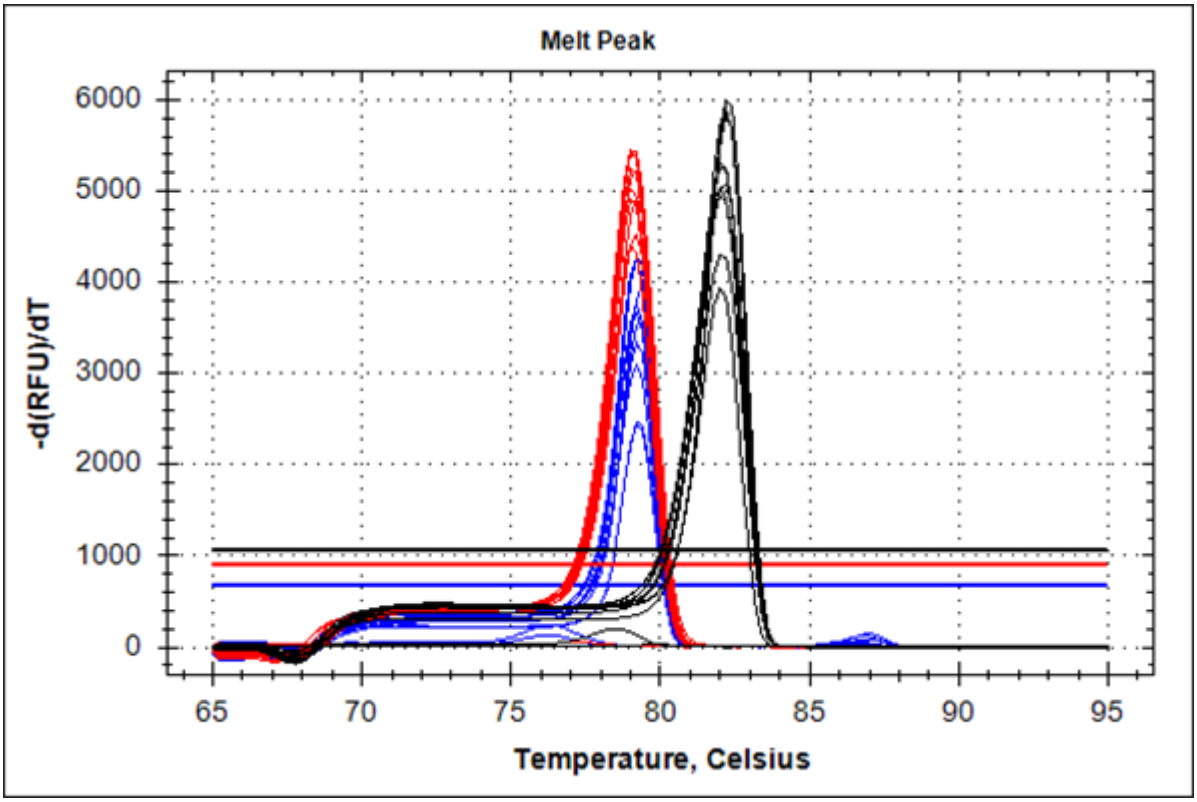
Data Set	Target	Sample	Ctrl	Relative Quantity	Relative Quantity SD	Corrected Relative Quantity SD	Relative Quantity SEM	Corrected Relative Quantity SEM	Unscaled Expression	Unscaled Expression SD	Corrected Unscaled Expression SD	Unscaled Expression SEM	Corrected Unscaled Expression SEM	Expression	Expression SD	Corrected Expression SD	Expression SEM	Corrected Expression SEM	Wells	MeanCq	CqSD	CqSEM
1-COX1	COX1	Dg		0.09148	0.02353	0.02353	0.01664	0.01664	0.10670	0.03293	0.03293	0.02329	0.02329	0.10670	0.03293	0.03293	0.02329	0.02329	2	32.710	0.37110	0.26241
1-COX1	COX1	Gill 1hr C		1.00000	0.02162	0.02162	0.01529	0.01529	1.00000	0.05243	0.05243	0.03707	0.03707	1.00000	0.05243	0.05243	0.03707	0.03707	2	29.260	0.03120	0.02206
1-COX1	COX1	Gill 1hr E		0.97030	0.04035	0.04035	0.02853	0.02853	1.06944	0.36928	0.36928	0.26112	0.26112	1.06944	0.36928	0.36928	0.26112	0.26112	2	29.300	0.05999	0.04242
1-COX1	COX1	Mantle		0.37333	0.06460	0.06460	0.04568	0.04568	0.38505	0.07441	0.07441	0.05261	0.05261	0.38505	0.07441	0.07441	0.05261	0.05261	2	30.680	0.24964	0.17652
1-COX1	COX1	Muscle		0.03822	0.00046	0.00046	0.00032	0.00032	0.05349	0.00745	0.00745	0.00527	0.00527	0.05349	0.00745	0.00745	0.00527	0.00527	2	33.970	0.01733	0.01225
1-COX2	COX2	Dg		0.87969	0.05308	0.05308	0.03754	0.03754	1.02602	0.18563	0.18563	0.13126	0.13126	1.02602	0.18563	0.18563	0.13126	0.13126	2	35.160	0.08706	0.06156
1-COX2	COX2	Gill 1hr C		1.00000	0.21420	0.21420	0.15146	0.15146	1.00000	0.21946	0.21946	0.15518	0.15518	1.00000	0.21946	0.21946	0.15518	0.15518	2	34.980	0.30903	0.21852

Data Set	Target	Sample	Ctrl	Relative Quantity	Relative Quantity SD	Corrected Relative Quantity SD	Relative Quantity SEM	Corrected Relative Quantity SEM	Unscaled Expression	Unscaled Expression SD	Corrected Unscaled Expression SD	Unscaled Expression SEM	Corrected Unscaled Expression SEM	Expression	Expression SD	Corrected Expression SD	Expression SEM	Corrected Expression SEM	Wells	MeanCq	CqSD	CqSEM
1-COX2	COX2	Gill 1hr E		0.29681	0.02697	0.02697	0.01907	0.01907	0.32714	0.11601	0.11601	0.08203	0.08203	0.32714	0.11601	0.11601	0.08203	0.08203	2	36.73	0.131110	0.092700
1-COX2	COX2	Mantle		0.69675	0.09317	0.09317	0.06588	0.06588	0.71861	0.11426	0.11426	0.08080	0.08080	0.71861	0.11426	0.11426	0.08080	0.08080	2	35.50	0.192922	0.136422
1-COX2	COX2	Muscle		0.09909	0.01161	0.01161	0.00821	0.00821	0.13868	0.02518	0.02518	0.01780	0.01780	0.13868	0.02518	0.02518	0.01780	0.01780	2	38.31	0.168899	0.119499
1-EF1	EF1	Dg		0.85738	0.14624	0.14624	0.10341	0.10341	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	22.20	0.246007	0.174000
1-EF1	EF1	Gill 1hr C		1.00000	0.04776	0.04776	0.03377	0.03377	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	21.97	0.068911	0.048733
1-EF1	EF1	Gill 1hr E		0.90730	0.31101	0.31101	0.21992	0.21992	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	22.11	0.494544	0.349699
1-EF1	EF1	Mantle		0.96957	0.08341	0.08341	0.05898	0.05898	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	22.02	0.124111	0.087776
1-EF1	EF1	Muscle		0.71451	0.09911	0.09911	0.07008	0.07008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	22.46	0.200133	0.141511

Melt Curve

Step #: 5


Melt Curve
RFU (10^3)
18
16
14
12
10
8
6
4
65
70
75
80
85
90
95
Temperature, Celsius



Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	FAM	EF1	Unkn-01	Dg	82.20
A02	FAM	EF1	Unkn-02	Gill 1hr C	82.20
A03	FAM	EF1	Unkn-03	Gill 1hr E	82.20
A04	FAM	EF1	Unkn-04	Mantle	82.00
A05	FAM	EF1	Unkn-05	Muscle	82.00
A06	FAM	EF1	NTC		None
B01	FAM	EF1	Unkn-01	Dg	82.00
B02	FAM	EF1	Unkn-02	Gill 1hr C	82.20
B03	FAM	EF1	Unkn-03	Gill 1hr E	82.00
B04	FAM	EF1	Unkn-04	Mantle	82.00
B05	FAM	EF1	Unkn-05	Muscle	82.00
B06	FAM	EF1	NTC		None
C01	FAM	COX1	Unkn-06	Dg	79.20
C02	FAM	COX1	Unkn-07	Gill 1hr C	79.20
C03	FAM	COX1	Unkn-08	Gill 1hr E	79.00
C04	FAM	COX1	Unkn-09	Mantle	79.00
C05	FAM	COX1	Unkn-10	Muscle	79.00
C06	FAM	COX1	NTC		None
D01	FAM	COX1	Unkn-06	Dg	79.20
D02	FAM	COX1	Unkn-07	Gill 1hr C	79.20
D03	FAM	COX1	Unkn-08	Gill 1hr E	79.00
D04	FAM	COX1	Unkn-09	Mantle	79.00
D05	FAM	COX1	Unkn-10	Muscle	79.00
D06	FAM	COX1	NTC		None
E01	FAM	COX2	Unkn-11	Dg	79.40

Well	Fluor	Target	Content	Sample	Melt Temp
E02	FAM	COX2	Unkn-12	Gill 1hr C	79.20
E03	FAM	COX2	Unkn-13	Gill 1hr E	79.20
E04	FAM	COX2	Unkn-14	Mantle	79.20
E05	FAM	COX2	Unkn-15	Muscle	79.20
E06	FAM	COX2	NTC		None
F01	FAM	COX2	Unkn-11	Dg	79.40
F02	FAM	COX2	Unkn-12	Gill 1hr C	79.20
F03	FAM	COX2	Unkn-13	Gill 1hr E	79.20
F04	FAM	COX2	Unkn-14	Mantle	79.20
F05	FAM	COX2	Unkn-15	Muscle	79.20
F06	FAM	COX2	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^2 less than	0.980	True			
Replicate group Cq Std Dev greater than	0.20	True	COX1:C1, C4, D1, D4. COX2:E2, F2. EF1:A1, A3, A5, B1, B3, B5.	False	