



# admin\_2019-07-31 17-03-46\_BR006896.pcrd

7/31/2019 8:00 PM

## Report Information

User: BioRad/admin

Data File Name: admin\_2019-07-31 17-03-46\_BR006896.pcrd

Data File Path: Y:\Documents\roberts-lab\O.lurida\_Stress\Data\RNA-DNA-Isolation\2019-07-31\_qPCR-DNA-contamination

Well Group Name: All Wells

Report Differs from Last Save: Yes

## Run Setup

### Run Information

Run Date: 7/31/2019 5:04 PM

Run User: admin

Run Type: User-defined

Plate File: QuickPlate\_96 wells\_sybr\_white.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 2:00

2: 98.0°C for 0:02

3: 55.0°C for 0:05

Plate Read

4: GOTO 2, 39 more times

5: Melt Curve 75.0°C to 95.0°C: Increment 0.2°C 0:10

Plate Read

### Plate Display

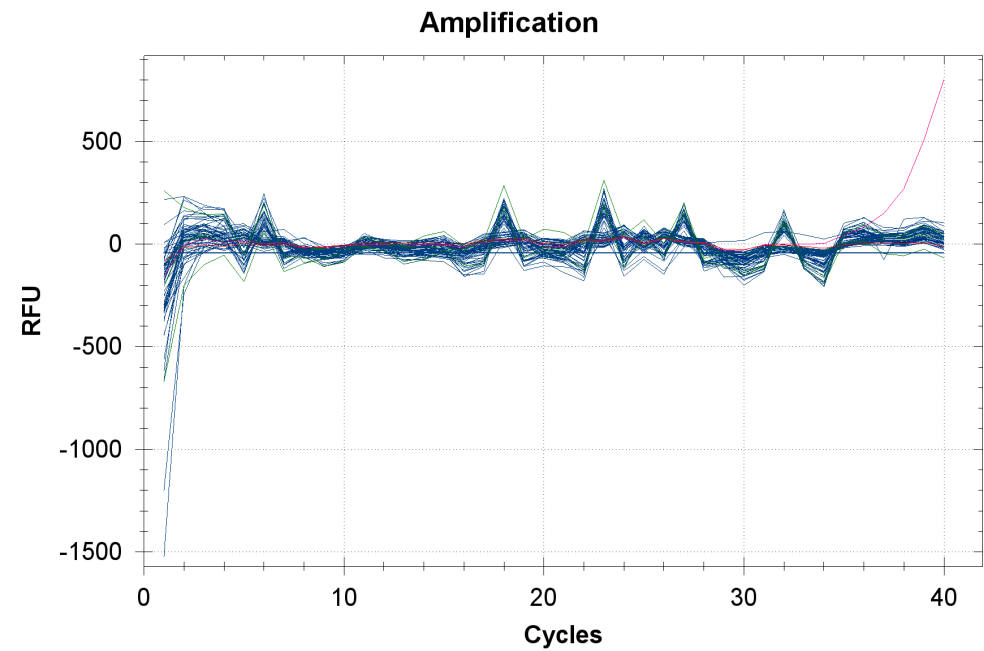
	1	2	3	4	5	6	7	8	9	10	11	12
A	Unk EF1_qPCR 401	Unk EF1_qPCR 401	Unk EF1_qPCR 402	Unk EF1_qPCR 402	Unk EF1_qPCR 411	Unk EF1_qPCR 411	Unk EF1_qPCR 412	Unk EF1_qPCR 412	Unk EF1_qPCR 421	Unk EF1_qPCR 421	Unk EF1_qPCR 431b	Unk EF1_qPCR 431b
B	Unk EF1_qPCR 432	Unk EF1_qPCR 432	Unk EF1_qPCR 441	Unk EF1_qPCR 441	Unk EF1_qPCR 442b	Unk EF1_qPCR 442b	Unk EF1_qPCR 451	Unk EF1_qPCR 451	Unk EF1_qPCR 452b	Unk EF1_qPCR 452b	Unk EF1_qPCR 461b	Unk EF1_qPCR 461b
C	Unk EF1_qPCR 462b	Unk EF1_qPCR 462b	Unk EF1_qPCR 471b	Unk EF1_qPCR 471b	Unk EF1_qPCR 472b	Unk EF1_qPCR 472b	Unk EF1_qPCR 481	Unk EF1_qPCR 481	Unk EF1_qPCR 482	Unk EF1_qPCR 482	Unk EF1_qPCR 484	Unk EF1_qPCR 484
D	Unk EF1_qPCR 491	Unk EF1_qPCR 491	Unk EF1_qPCR 506	Unk EF1_qPCR 506	Unk EF1_qPCR 513	Unk EF1_qPCR 513	Unk EF1_qPCR 521	Unk EF1_qPCR 521	Unk EF1_qPCR 522	Unk EF1_qPCR 522	Unk EF1_qPCR 528	Unk EF1_qPCR 528
E	Unk EF1_qPCR 531	Unk EF1_qPCR 531	Unk EF1_qPCR 541	Unk EF1_qPCR 541	Unk EF1_qPCR 542	Unk EF1_qPCR 542	Unk EF1_qPCR 552b	Unk EF1_qPCR 552b	Unk EF1_qPCR 561	Unk EF1_qPCR 561	Unk EF1_qPCR 571	Unk EF1_qPCR 571

Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
F	Pos EF1_qPCR DNA 8a	Pos EF1_qPCR DNA 8a	NTC EF1_qPCR NTC	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM
G	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM
H	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM

Quantification

Step #: 3  
Analysis Mode: Fluorophore  
Cq Determination: Single Threshold  
Baseline Method:  
FAM: Auto Calculated  
Threshold Setting:  
FAM: -43.18, Auto Calculated



Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	FAM	EF1_qPCR	Unkn	401	1.75	1.75	0.000
A02	FAM	EF1_qPCR	Unkn	401	34.37	34.37	0.000
A03	FAM	EF1_qPCR	Unkn	402	1.73	1.73	0.000
A04	FAM	EF1_qPCR	Unkn	402	1.79	1.79	0.000
A05	FAM	EF1_qPCR	Unkn	411	1.87	1.87	0.000
A06	FAM	EF1_qPCR	Unkn	411	34.32	34.32	0.000
A07	FAM	EF1_qPCR	Unkn	412	34.57	34.57	0.000
A08	FAM	EF1_qPCR	Unkn	412	37.17	37.17	0.000
A09	FAM	EF1_qPCR	Unkn	421	1.68	1.68	0.000
A10	FAM	EF1_qPCR	Unkn	421	1.41	1.41	0.000
A11	FAM	EF1_qPCR	Unkn	431b	1.77	1.77	0.000

## Quantification Data

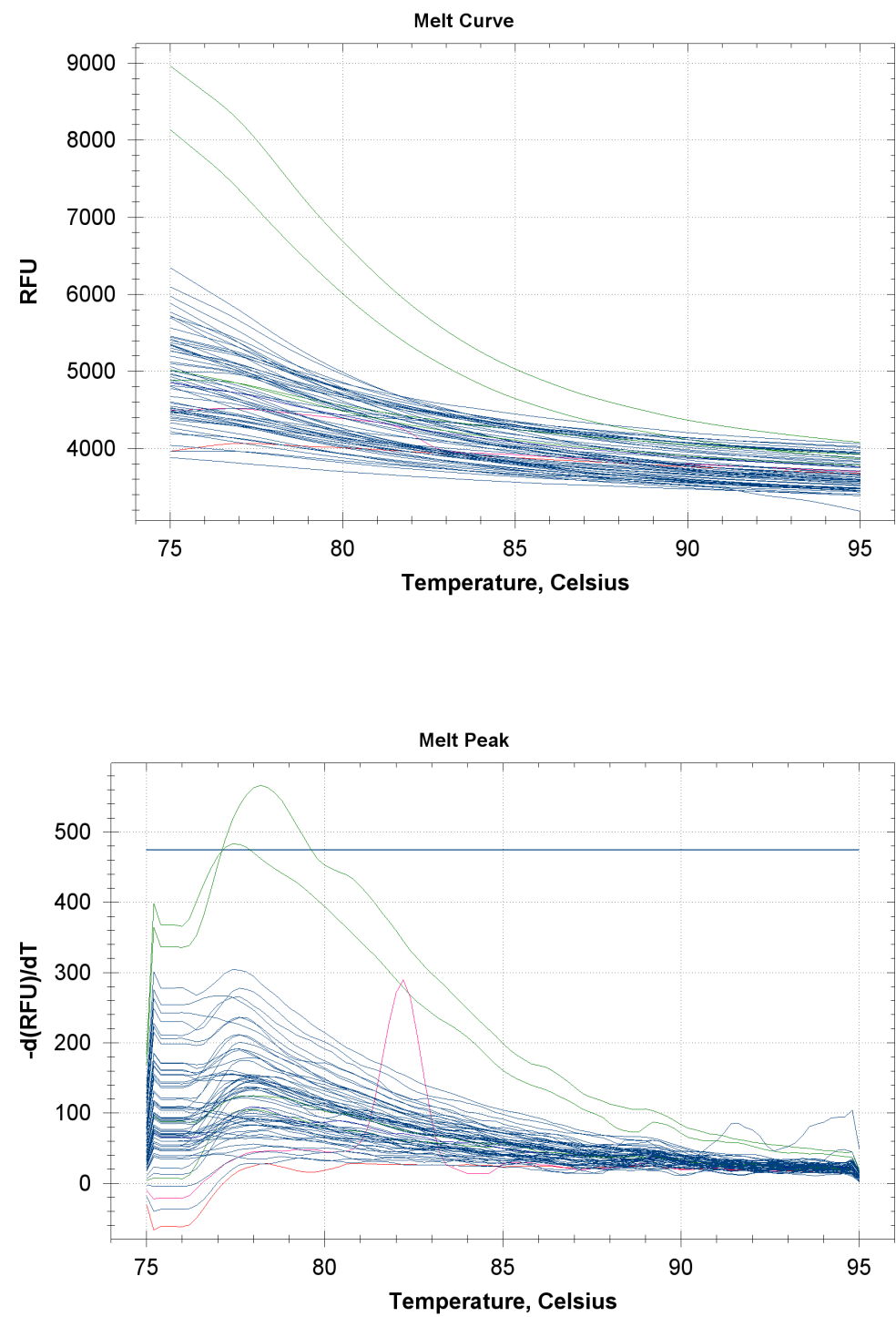
Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A12	FAM	EF1_qPCR	Unkn	431b	34.41	34.41	0.000
B01	FAM	EF1_qPCR	Unkn	432	1.51	1.51	0.000
B02	FAM	EF1_qPCR	Unkn	432	1.94	1.94	0.000
B03	FAM	EF1_qPCR	Unkn	441	34.39	34.39	0.000
B04	FAM	EF1_qPCR	Unkn	441	1.36	1.36	0.000
B05	FAM	EF1_qPCR	Unkn	442b	34.45	34.45	0.000
B06	FAM	EF1_qPCR	Unkn	442b	34.50	34.50	0.000
B07	FAM	EF1_qPCR	Unkn	451	34.61	34.61	0.000
B08	FAM	EF1_qPCR	Unkn	451	34.60	34.60	0.000
B09	FAM	EF1_qPCR	Unkn	452b	1.48	1.48	0.000
B10	FAM	EF1_qPCR	Unkn	452b	34.49	34.49	0.000
B11	FAM	EF1_qPCR	Unkn	461b	1.96	1.96	0.000
B12	FAM	EF1_qPCR	Unkn	461b	34.50	34.50	0.000
C01	FAM	EF1_qPCR	Unkn	462b	34.55	34.55	0.000
C02	FAM	EF1_qPCR	Unkn	462b	1.43	1.43	0.000
C03	FAM	EF1_qPCR	Unkn	471b	1.46	1.46	0.000
C04	FAM	EF1_qPCR	Unkn	471b	1.55	1.55	0.000
C05	FAM	EF1_qPCR	Unkn	472b	34.40	34.40	0.000
C06	FAM	EF1_qPCR	Unkn	472b	1.67	1.67	0.000
C07	FAM	EF1_qPCR	Unkn	481	1.58	1.58	0.000
C08	FAM	EF1_qPCR	Unkn	481	1.44	1.44	0.000
C09	FAM	EF1_qPCR	Unkn	482	1.11	1.11	0.000
C10	FAM	EF1_qPCR	Unkn	482	34.59	34.59	0.000
C11	FAM	EF1_qPCR	Unkn	484	1.54	1.54	0.000
C12	FAM	EF1_qPCR	Unkn	484	1.76	1.76	0.000
D01	FAM	EF1_qPCR	Unkn	491	34.48	34.48	0.000
D02	FAM	EF1_qPCR	Unkn	491	34.53	34.53	0.000
D03	FAM	EF1_qPCR	Unkn	506	34.36	34.36	0.000
D04	FAM	EF1_qPCR	Unkn	506	34.26	34.26	0.000
D05	FAM	EF1_qPCR	Unkn	513	1.90	1.90	0.000
D06	FAM	EF1_qPCR	Unkn	513	1.78	1.78	0.000
D07	FAM	EF1_qPCR	Unkn	521	1.99	1.99	0.000
D08	FAM	EF1_qPCR	Unkn	521	34.44	34.44	0.000
D09	FAM	EF1_qPCR	Unkn	522	1.58	1.58	0.000
D10	FAM	EF1_qPCR	Unkn	522	34.48	34.48	0.000
D11	FAM	EF1_qPCR	Unkn	528	1.81	1.81	0.000
D12	FAM	EF1_qPCR	Unkn	528	34.56	34.56	0.000
E01	FAM	EF1_qPCR	Unkn	531	1.75	1.75	0.000
E02	FAM	EF1_qPCR	Unkn	531	34.41	34.41	0.000
E03	FAM	EF1_qPCR	Unkn	541	34.44	34.44	0.000
E04	FAM	EF1_qPCR	Unkn	541	1.91	1.91	0.000
E05	FAM	EF1_qPCR	Unkn	542	34.54	34.54	0.000
E06	FAM	EF1_qPCR	Unkn	542	1.94	1.94	0.000
E07	FAM	EF1_qPCR	Unkn	552b	1.59	1.59	0.000
E08	FAM	EF1_qPCR	Unkn	552b	26.76	26.76	0.000
E09	FAM	EF1_qPCR	Unkn	561	1.46	1.46	0.000
E10	FAM	EF1_qPCR	Unkn	561	34.33	34.33	0.000
E11	FAM	EF1_qPCR	Unkn	571	1.68	1.68	0.000
E12	FAM	EF1_qPCR	Unkn	571	1.75	1.75	0.000

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
F01	FAM	EF1_qPCR	Pos Ctrl	DNA 8a	34.74	34.74	0.000
F02	FAM	EF1_qPCR	Pos Ctrl	DNA 8a	34.54	34.54	0.000
F03	FAM	EF1_qPCR	NTC	NTC	1.61	1.61	0.000

Melt Curve

Step #: 5



## Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	FAM	EF1_qPCR	Unkn	401	None
A02	FAM	EF1_qPCR	Unkn	401	None
A03	FAM	EF1_qPCR	Unkn	402	None
A04	FAM	EF1_qPCR	Unkn	402	None
A05	FAM	EF1_qPCR	Unkn	411	None
A06	FAM	EF1_qPCR	Unkn	411	None
A07	FAM	EF1_qPCR	Unkn	412	None
A08	FAM	EF1_qPCR	Unkn	412	None
A09	FAM	EF1_qPCR	Unkn	421	None
A10	FAM	EF1_qPCR	Unkn	421	None
A11	FAM	EF1_qPCR	Unkn	431b	None
A12	FAM	EF1_qPCR	Unkn	431b	None
B01	FAM	EF1_qPCR	Unkn	432	None
B02	FAM	EF1_qPCR	Unkn	432	None
B03	FAM	EF1_qPCR	Unkn	441	None
B04	FAM	EF1_qPCR	Unkn	441	None
B05	FAM	EF1_qPCR	Unkn	442b	None
B06	FAM	EF1_qPCR	Unkn	442b	None
B07	FAM	EF1_qPCR	Unkn	451	None
B08	FAM	EF1_qPCR	Unkn	451	None
B09	FAM	EF1_qPCR	Unkn	452b	None
B10	FAM	EF1_qPCR	Unkn	452b	None
B11	FAM	EF1_qPCR	Unkn	461b	None
B12	FAM	EF1_qPCR	Unkn	461b	None
C01	FAM	EF1_qPCR	Unkn	462b	None
C02	FAM	EF1_qPCR	Unkn	462b	None
C03	FAM	EF1_qPCR	Unkn	471b	None
C04	FAM	EF1_qPCR	Unkn	471b	None
C05	FAM	EF1_qPCR	Unkn	472b	None
C06	FAM	EF1_qPCR	Unkn	472b	None
C07	FAM	EF1_qPCR	Unkn	481	None
C08	FAM	EF1_qPCR	Unkn	481	None
C09	FAM	EF1_qPCR	Unkn	482	None
C10	FAM	EF1_qPCR	Unkn	482	None
C11	FAM	EF1_qPCR	Unkn	484	None
C12	FAM	EF1_qPCR	Unkn	484	None
D01	FAM	EF1_qPCR	Unkn	491	None
D02	FAM	EF1_qPCR	Unkn	491	None
D03	FAM	EF1_qPCR	Unkn	506	None
D04	FAM	EF1_qPCR	Unkn	506	None
D05	FAM	EF1_qPCR	Unkn	513	None
D06	FAM	EF1_qPCR	Unkn	513	None
D07	FAM	EF1_qPCR	Unkn	521	None
D08	FAM	EF1_qPCR	Unkn	521	None
D09	FAM	EF1_qPCR	Unkn	522	None
D10	FAM	EF1_qPCR	Unkn	522	None
D11	FAM	EF1_qPCR	Unkn	528	None
D12	FAM	EF1_qPCR	Unkn	528	None

## Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
E01	FAM	EF1_qPCR	Unkn	531	None
E02	FAM	EF1_qPCR	Unkn	531	None
E03	FAM	EF1_qPCR	Unkn	541	None
E04	FAM	EF1_qPCR	Unkn	541	None
E05	FAM	EF1_qPCR	Unkn	542	None
E06	FAM	EF1_qPCR	Unkn	542	None
E07	FAM	EF1_qPCR	Unkn	552b	None
E08	FAM	EF1_qPCR	Unkn	552b	None
E09	FAM	EF1_qPCR	Unkn	561	None
E10	FAM	EF1_qPCR	Unkn	561	None
E11	FAM	EF1_qPCR	Unkn	571	None
E12	FAM	EF1_qPCR	Unkn	571	None
F01	FAM	EF1_qPCR	Pos Ctrl	DNA 8a	77.40
F02	FAM	EF1_qPCR	Pos Ctrl	DNA 8a	78.20
F03	FAM	EF1_qPCR	NTC	NTC	None

## End Point

Fluorophore/Target: FAM

**End Cycles to Average:** 5

**Mode:** Percentage of Range - 10

**Lowest RFU Value:** -36.7

**Highest RFU Value:** 362

**Positive Control Average:** 12.8

**Cut Off Value:**

FAM End Point Data

Well	Fluor	Content	Sample	End RFU	Call
A01	FAM	Unkn	401	15.0	
A02	FAM	Unkn	401	28.8	
A03	FAM	Unkn	402	41.5	
A04	FAM	Unkn	402	11.0	
A05	FAM	Unkn	411	9.79	
A06	FAM	Unkn	411	32.6	
A07	FAM	Unkn	412	40.4	
A08	FAM	Unkn	412	67.8	
A09	FAM	Unkn	421	37.5	
A10	FAM	Unkn	421	50.3	
A11	FAM	Unkn	431b	27.5	
A12	FAM	Unkn	431b	28.0	
B01	FAM	Unkn	432	9.79	
B02	FAM	Unkn	432	-9.26	
B03	FAM	Unkn	441	63.9	
B04	FAM	Unkn	441	29.7	
B05	FAM	Unkn	442b	7.76	
B06	FAM	Unkn	442b	0.965	
B07	FAM	Unkn	451	32.1	
B08	FAM	Unkn	451	29.6	

## FAM End Point Data

Well	Fluor	Content	Sample	End RFU	Call
B09	FAM	Unkn	452b	19.5	
B10	FAM	Unkn	452b	11.0	
B11	FAM	Unkn	461b	0.711	
B12	FAM	Unkn	461b	18.2	
C01	FAM	Unkn	462b	13.5	
C02	FAM	Unkn	462b	12.1	
C03	FAM	Unkn	471b	16.5	
C04	FAM	Unkn	471b	28.3	
C05	FAM	Unkn	472b	22.2	
C06	FAM	Unkn	472b	34.6	
C07	FAM	Unkn	481	33.6	
C08	FAM	Unkn	481	37.7	
C09	FAM	Unkn	482	59.4	
C10	FAM	Unkn	482	59.2	
C11	FAM	Unkn	484	45.5	
C12	FAM	Unkn	484	44.1	
D01	FAM	Unkn	491	62.6	
D02	FAM	Unkn	491	45.6	
D03	FAM	Unkn	506	56.6	
D04	FAM	Unkn	506	88.3	
D05	FAM	Unkn	513	33.3	
D06	FAM	Unkn	513	16.2	
D07	FAM	Unkn	521	-6.35	
D08	FAM	Unkn	521	2.49	
D09	FAM	Unkn	522	58.1	
D10	FAM	Unkn	522	66.8	
D11	FAM	Unkn	528	41.4	
D12	FAM	Unkn	528	94.9	
E01	FAM	Unkn	531	17.6	
E02	FAM	Unkn	531	20.9	
E03	FAM	Unkn	541	25.3	
E04	FAM	Unkn	541	3.02	
E05	FAM	Unkn	542	52.1	
E06	FAM	Unkn	542	43.8	
E07	FAM	Unkn	552b	17.7	
E08	FAM	Unkn	552b	47.6	
E09	FAM	Unkn	561	43.3	
E10	FAM	Unkn	561	89.0	
E11	FAM	Unkn	571	17.6	
E12	FAM	Unkn	571	362	
F01	FAM	Pos Ctrl	DNA 8a	-36.7	
F02	FAM	Pos Ctrl	DNA 8a	62.2	
F03	FAM	NTC	NTC	0.982	

## 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	FAM:F3.	False	
NRT with a Cq less than	38	True		False	
Positive control with a Cq greater than	30	True	FAM:F1, F2.	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	0.50	True		False	