sam_2025-06-03_16-46-50_CFX96-cGAS.pcrd

6/5/2025 14:59

Report Information

User: BioRad/sam
Data File Name: sam_2025-06-03_16-46-50_CFX96-cGAS.pcrd
Data File Path: C:\Users\Samb\Downloads\qPCR-20250603
Well Group Name: All Wells
Report Differs from Last Save: No

Run Setup

Run Information

Run Date: 6/3/2025 16:47
Run User: sam
Run Type: User-defined
Plate File: cgig-02-cGAS-cfx-plate.pltd
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 0:03
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

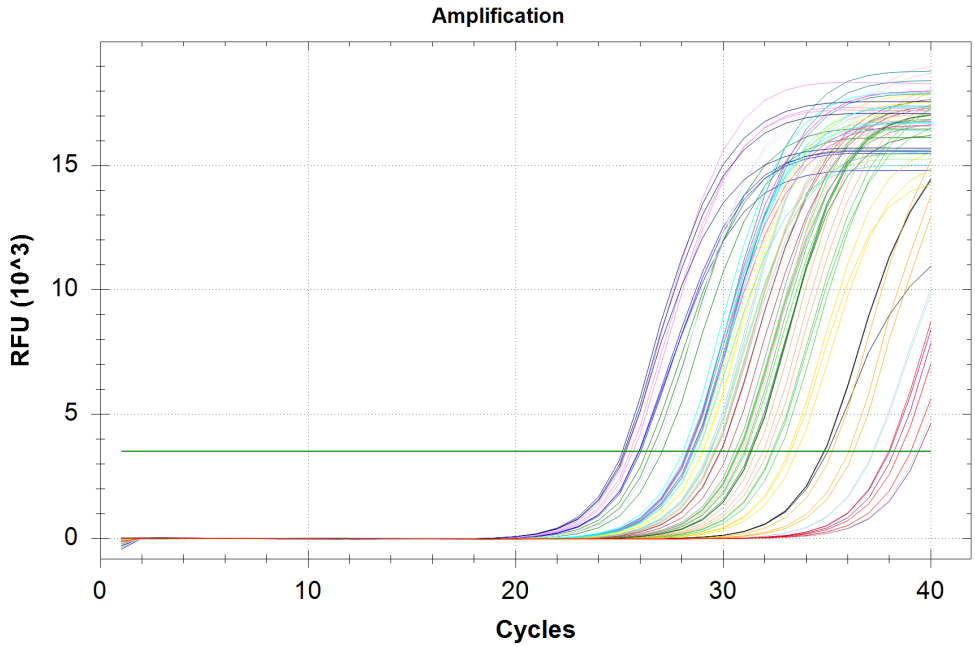
	1	2	3	4	5	6	7	8	9	10	11	12
A	Unk-1 cGAS 12	Unk-1 cGAS 12	Unk-1 cGAS 12	Unk-2 cGAS 14	Unk-2 cGAS 14	Unk-2 cGAS 14	Unk-3 cGAS 15	Unk-3 cGAS 15	Unk-3 cGAS 15	Unk-4 cGAS 18	Unk-4 cGAS 18	Unk-4 cGAS 18
B	Unk-5 cGAS 19	Unk-5 cGAS 19	Unk-5 cGAS 19	Unk-6 cGAS 24	Unk-6 cGAS 24	Unk-6 cGAS 24	Unk-7 cGAS 25	Unk-7 cGAS 25	Unk-7 cGAS 25	Unk-8 cGAS 29	Unk-8 cGAS 29	Unk-8 cGAS 29
C	Unk-9 cGAS 39	Unk-9 cGAS 39	Unk-9 cGAS 39	Unk-10 cGAS 40	Unk-10 cGAS 40	Unk-10 cGAS 40	Unk-11 cGAS 43	Unk-11 cGAS 43	Unk-11 cGAS 43	Unk-12 cGAS 49	Unk-12 cGAS 49	Unk-12 cGAS 49
D	Unk-13 cGAS 53	Unk-13 cGAS 53	Unk-13 cGAS 53	Unk-14 cGAS 59	Unk-14 cGAS 59	Unk-14 cGAS 59	Unk-15 cGAS 60	Unk-15 cGAS 60	Unk-15 cGAS 60	Unk-16 cGAS 62	Unk-16 cGAS 62	Unk-16 cGAS 62
E	Unk-17 cGAS 63	Unk-17 cGAS 63	Unk-17 cGAS 63	Unk-18 cGAS 66	Unk-18 cGAS 66	Unk-18 cGAS 66	Unk-19 cGAS 69	Unk-19 cGAS 69	Unk-19 cGAS 69	Unk-20 cGAS 71	Unk-20 cGAS 71	Unk-20 cGAS 71

Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
F	Unk-21 cGAS 73	Unk-21 cGAS 73	Unk-21 cGAS 73	Unk-22 cGAS 75	Unk-22 cGAS 75	Unk-22 cGAS 75	Unk-23 cGAS 79	Unk-23 cGAS 79	Unk-23 cGAS 79	Unk-24 cGAS 81	Unk-24 cGAS 81	Unk-24 cGAS 81
G	Unk-25 cGAS 89	Unk-25 cGAS 89	Unk-25 cGAS 89	NTC-1 cGAS	NTC-1 cGAS	NTC-1 cGAS						
H												

Quantification

Step #: 3
Analysis Mode: Fluorophore
Cq Determination: Single Threshold
Baseline Method:
SYBR: Auto Calculated
Threshold Setting:
SYBR: 3518.67, Auto Calculated



Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	SYBR	cGAS	Unkn-01	12	30.68	30.84	0.211
A02	SYBR	cGAS	Unkn-01	12	30.76	30.84	0.211
A03	SYBR	cGAS	Unkn-01	12	31.08	30.84	0.211
A04	SYBR	cGAS	Unkn-02	14	38.24	38.56	0.750
A05	SYBR	cGAS	Unkn-02	14	38.02	38.56	0.750
A06	SYBR	cGAS	Unkn-02	14	39.42	38.56	0.750
A07	SYBR	cGAS	Unkn-03	15	27.06	26.64	0.384
A08	SYBR	cGAS	Unkn-03	15	26.54	26.64	0.384
A09	SYBR	cGAS	Unkn-03	15	26.31	26.64	0.384
A10	SYBR	cGAS	Unkn-04	18	26.03	25.97	0.053
A11	SYBR	cGAS	Unkn-04	18	25.93	25.97	0.053

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A12	SYBR	cGAS	Unkn-04	18	25.96	25.97	0.053
B01	SYBR	cGAS	Unkn-05	19	30.84	30.83	0.109
B02	SYBR	cGAS	Unkn-05	19	30.93	30.83	0.109
B03	SYBR	cGAS	Unkn-05	19	30.71	30.83	0.109
B04	SYBR	cGAS	Unkn-06	24	29.86	30.00	0.216
B05	SYBR	cGAS	Unkn-06	24	30.25	30.00	0.216
B06	SYBR	cGAS	Unkn-06	24	29.89	30.00	0.216
B07	SYBR	cGAS	Unkn-07	25	34.88	34.92	0.101
B08	SYBR	cGAS	Unkn-07	25	34.85	34.92	0.101
B09	SYBR	cGAS	Unkn-07	25	35.04	34.92	0.101
B10	SYBR	cGAS	Unkn-08	29	37.26	37.93	1.206
B11	SYBR	cGAS	Unkn-08	29	39.32	37.93	1.206
B12	SYBR	cGAS	Unkn-08	29	37.20	37.93	1.206
C01	SYBR	cGAS	Unkn-09	39	28.54	28.44	0.120
C02	SYBR	cGAS	Unkn-09	39	28.31	28.44	0.120
C03	SYBR	cGAS	Unkn-09	39	28.47	28.44	0.120
C04	SYBR	cGAS	Unkn-10	40	36.28	35.86	0.547
C05	SYBR	cGAS	Unkn-10	40	36.05	35.86	0.547
C06	SYBR	cGAS	Unkn-10	40	35.24	35.86	0.547
C07	SYBR	cGAS	Unkn-11	43	29.40	29.38	0.036
C08	SYBR	cGAS	Unkn-11	43	29.34	29.38	0.036
C09	SYBR	cGAS	Unkn-11	43	29.41	29.38	0.036
C10	SYBR	cGAS	Unkn-12	49	28.48	28.35	0.114
C11	SYBR	cGAS	Unkn-12	49	28.27	28.35	0.114
C12	SYBR	cGAS	Unkn-12	49	28.31	28.35	0.114
D01	SYBR	cGAS	Unkn-13	53	29.02	28.93	0.178
D02	SYBR	cGAS	Unkn-13	53	29.04	28.93	0.178
D03	SYBR	cGAS	Unkn-13	53	28.72	28.93	0.178
D04	SYBR	cGAS	Unkn-14	59	29.64	29.43	0.192
D05	SYBR	cGAS	Unkn-14	59	29.36	29.43	0.192
D06	SYBR	cGAS	Unkn-14	59	29.27	29.43	0.192
D07	SYBR	cGAS	Unkn-15	60	30.56	30.77	0.238
D08	SYBR	cGAS	Unkn-15	60	31.03	30.77	0.238
D09	SYBR	cGAS	Unkn-15	60	30.72	30.77	0.238
D10	SYBR	cGAS	Unkn-16	62	32.67	32.47	0.173
D11	SYBR	cGAS	Unkn-16	62	32.35	32.47	0.173
D12	SYBR	cGAS	Unkn-16	62	32.40	32.47	0.173
E01	SYBR	cGAS	Unkn-17	63	31.92	31.88	0.278
E02	SYBR	cGAS	Unkn-17	63	31.59	31.88	0.278
E03	SYBR	cGAS	Unkn-17	63	32.14	31.88	0.278
E04	SYBR	cGAS	Unkn-18	66	25.53	25.50	0.160
E05	SYBR	cGAS	Unkn-18	66	25.65	25.50	0.160
E06	SYBR	cGAS	Unkn-18	66	25.33	25.50	0.160
E07	SYBR	cGAS	Unkn-19	69	31.34	31.32	0.043
E08	SYBR	cGAS	Unkn-19	69	31.36	31.32	0.043
E09	SYBR	cGAS	Unkn-19	69	31.27	31.32	0.043
E10	SYBR	cGAS	Unkn-20	71	28.36	28.48	0.219
E11	SYBR	cGAS	Unkn-20	71	28.35	28.48	0.219
E12	SYBR	cGAS	Unkn-20	71	28.73	28.48	0.219

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
F01	SYBR	cGAS	Unkn-21	73	26.69	26.77	0.127
F02	SYBR	cGAS	Unkn-21	73	26.92	26.77	0.127
F03	SYBR	cGAS	Unkn-21	73	26.71	26.77	0.127
F04	SYBR	cGAS	Unkn-22	75	25.14	25.22	0.073
F05	SYBR	cGAS	Unkn-22	75	25.23	25.22	0.073
F06	SYBR	cGAS	Unkn-22	75	25.29	25.22	0.073
F07	SYBR	cGAS	Unkn-23	79	29.54	29.59	0.044
F08	SYBR	cGAS	Unkn-23	79	29.59	29.59	0.044
F09	SYBR	cGAS	Unkn-23	79	29.63	29.59	0.044
F10	SYBR	cGAS	Unkn-24	81	28.58	28.30	0.262
F11	SYBR	cGAS	Unkn-24	81	28.07	28.30	0.262
F12	SYBR	cGAS	Unkn-24	81	28.23	28.30	0.262
G01	SYBR	cGAS	Unkn-25	89	33.55	33.31	0.206
G02	SYBR	cGAS	Unkn-25	89	33.15	33.31	0.206
G03	SYBR	cGAS	Unkn-25	89	33.24	33.31	0.206
G04	SYBR	cGAS	NTC-01		39.04	38.50	0.535
G05	SYBR	cGAS	NTC-01		38.50	38.50	0.535
G06	SYBR	cGAS	NTC-01		37.97	38.50	0.535

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
cGAS	cGAS	False	Yes	100.0%

Sample Names

Name	Full Name	Control
12	12	No
14	14	No
15	15	No
18	18	No
19	19	No
24	24	No
25	25	No
29	29	No
39	39	No
40	40	No
43	43	No
49	49	No
53	53	No
59	59	No
60	60	No
62	62	No

Sample Names

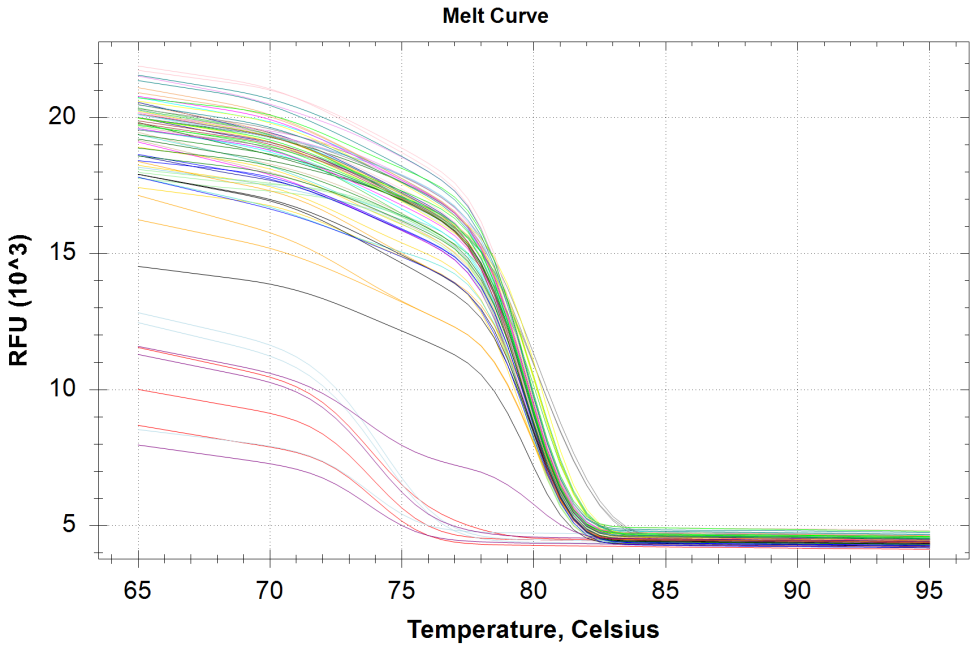
Name	Full Name	Control
63	63	No
66	66	No
69	69	No
71	71	No
73	73	No
75	75	No
79	79	No
81	81	No
89	89	No

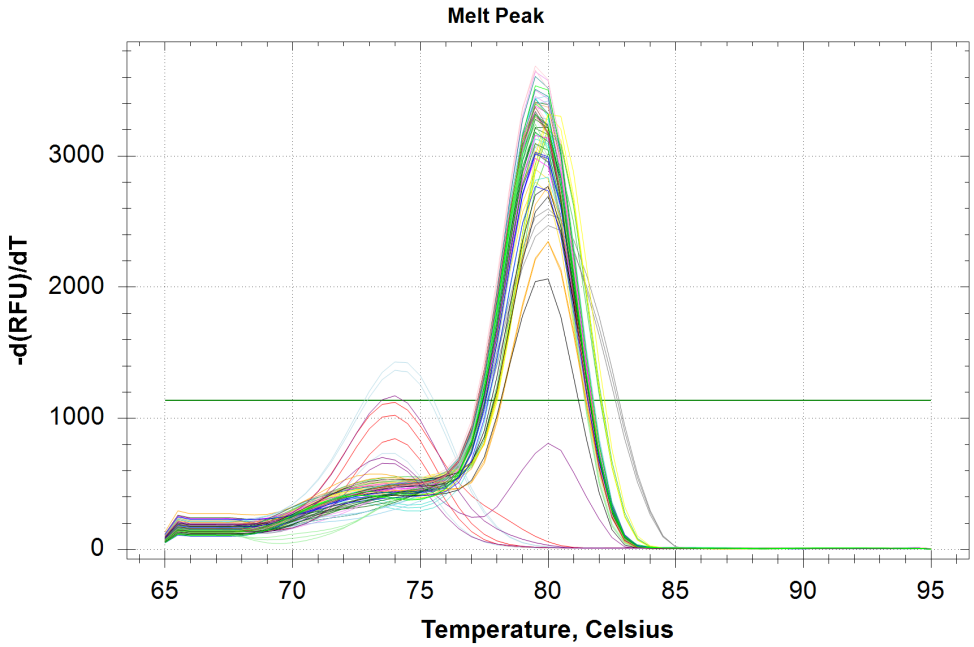
Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
cGAS	12		N/A	N/A	N/A	30.84	0.12155	N/A
cGAS	14		N/A	N/A	N/A	38.56	0.43314	N/A
cGAS	15		N/A	N/A	N/A	26.64	0.22184	N/A
cGAS	18		N/A	N/A	N/A	25.97	0.03057	N/A
cGAS	19		N/A	N/A	N/A	30.83	0.06320	N/A
cGAS	24		N/A	N/A	N/A	30.00	0.12483	N/A
cGAS	25		N/A	N/A	N/A	34.92	0.05848	N/A
cGAS	29		N/A	N/A	N/A	37.93	0.69633	N/A
cGAS	39		N/A	N/A	N/A	28.44	0.06920	N/A
cGAS	40		N/A	N/A	N/A	35.86	0.31577	N/A
cGAS	43		N/A	N/A	N/A	29.38	0.02068	N/A
cGAS	49		N/A	N/A	N/A	28.35	0.06579	N/A
cGAS	53		N/A	N/A	N/A	28.93	0.10298	N/A
cGAS	59		N/A	N/A	N/A	29.43	0.11058	N/A
cGAS	60		N/A	N/A	N/A	30.77	0.13748	N/A
cGAS	62		N/A	N/A	N/A	32.47	0.09993	N/A
cGAS	63		N/A	N/A	N/A	31.88	0.16037	N/A
cGAS	66		N/A	N/A	N/A	25.50	0.09243	N/A
cGAS	69		N/A	N/A	N/A	31.32	0.02493	N/A
cGAS	71		N/A	N/A	N/A	28.48	0.12637	N/A
cGAS	73		N/A	N/A	N/A	26.77	0.07328	N/A
cGAS	75		N/A	N/A	N/A	25.22	0.04232	N/A
cGAS	79		N/A	N/A	N/A	29.59	0.02567	N/A
cGAS	81		N/A	N/A	N/A	28.30	0.15107	N/A
cGAS	89		N/A	N/A	N/A	33.31	0.11905	N/A

Melt Curve

Step #: 5





Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	SYBR	cGAS	Unkn-01	12	79.50
A02	SYBR	cGAS	Unkn-01	12	79.50
A03	SYBR	cGAS	Unkn-01	12	79.50
A04	SYBR	cGAS	Unkn-02	14	None
A05	SYBR	cGAS	Unkn-02	14	74.00
A06	SYBR	cGAS	Unkn-02	14	None
A07	SYBR	cGAS	Unkn-03	15	79.50
A08	SYBR	cGAS	Unkn-03	15	79.50
A09	SYBR	cGAS	Unkn-03	15	79.50

Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A10	SYBR	cGAS	Unkn-04	18	79.50
A11	SYBR	cGAS	Unkn-04	18	79.50
A12	SYBR	cGAS	Unkn-04	18	79.50
B01	SYBR	cGAS	Unkn-05	19	79.50
B02	SYBR	cGAS	Unkn-05	19	79.50
B03	SYBR	cGAS	Unkn-05	19	79.50
B04	SYBR	cGAS	Unkn-06	24	79.50
B05	SYBR	cGAS	Unkn-06	24	79.50
B06	SYBR	cGAS	Unkn-06	24	79.50
B07	SYBR	cGAS	Unkn-07	25	80.00
B08	SYBR	cGAS	Unkn-07	25	80.00
B09	SYBR	cGAS	Unkn-07	25	80.00
B10	SYBR	cGAS	Unkn-08	29	74.00
B11	SYBR	cGAS	Unkn-08	29	None
B12	SYBR	cGAS	Unkn-08	29	74.00
C01	SYBR	cGAS	Unkn-09	39	79.50
C02	SYBR	cGAS	Unkn-09	39	79.50
C03	SYBR	cGAS	Unkn-09	39	79.50
C04	SYBR	cGAS	Unkn-10	40	80.00
C05	SYBR	cGAS	Unkn-10	40	80.00
C06	SYBR	cGAS	Unkn-10	40	80.00
C07	SYBR	cGAS	Unkn-11	43	79.50
C08	SYBR	cGAS	Unkn-11	43	79.50
C09	SYBR	cGAS	Unkn-11	43	79.50
C10	SYBR	cGAS	Unkn-12	49	79.50
C11	SYBR	cGAS	Unkn-12	49	79.50
C12	SYBR	cGAS	Unkn-12	49	79.50
D01	SYBR	cGAS	Unkn-13	53	80.00
D02	SYBR	cGAS	Unkn-13	53	80.00
D03	SYBR	cGAS	Unkn-13	53	80.00
D04	SYBR	cGAS	Unkn-14	59	80.00
D05	SYBR	cGAS	Unkn-14	59	80.00
D06	SYBR	cGAS	Unkn-14	59	80.00
D07	SYBR	cGAS	Unkn-15	60	80.00
D08	SYBR	cGAS	Unkn-15	60	80.00
D09	SYBR	cGAS	Unkn-15	60	80.00
D10	SYBR	cGAS	Unkn-16	62	80.00
D11	SYBR	cGAS	Unkn-16	62	80.00
D12	SYBR	cGAS	Unkn-16	62	80.00
E01	SYBR	cGAS	Unkn-17	63	79.50
E02	SYBR	cGAS	Unkn-17	63	79.50
E03	SYBR	cGAS	Unkn-17	63	79.50
E04	SYBR	cGAS	Unkn-18	66	79.50
E05	SYBR	cGAS	Unkn-18	66	79.50
E06	SYBR	cGAS	Unkn-18	66	79.50
E07	SYBR	cGAS	Unkn-19	69	79.50
E08	SYBR	cGAS	Unkn-19	69	79.50
E09	SYBR	cGAS	Unkn-19	69	80.00
E10	SYBR	cGAS	Unkn-20	71	79.50
E11	SYBR	cGAS	Unkn-20	71	79.50

Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
E12	SYBR	cGAS	Unkn-20	71	80.00
F01	SYBR	cGAS	Unkn-21	73	79.50
F02	SYBR	cGAS	Unkn-21	73	79.50
F03	SYBR	cGAS	Unkn-21	73	79.50
F04	SYBR	cGAS	Unkn-22	75	79.50
F05	SYBR	cGAS	Unkn-22	75	79.50
F06	SYBR	cGAS	Unkn-22	75	79.50
F07	SYBR	cGAS	Unkn-23	79	79.50
F08	SYBR	cGAS	Unkn-23	79	79.50
F09	SYBR	cGAS	Unkn-23	79	79.50
F10	SYBR	cGAS	Unkn-24	81	79.50
F11	SYBR	cGAS	Unkn-24	81	79.50
F12	SYBR	cGAS	Unkn-24	81	79.50
G01	SYBR	cGAS	Unkn-25	89	79.50
G02	SYBR	cGAS	Unkn-25	89	79.50
G03	SYBR	cGAS	Unkn-25	89	79.50
G04	SYBR	cGAS	NTC-01		None
G05	SYBR	cGAS	NTC-01		None
G06	SYBR	cGAS	NTC-01		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	SYBR:G6.	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			

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
Replicate group Cq Std Dev greater than	0.20	True	SYBR:A1, A2, A3, A4, A5, A6, A7, A8, A9, B4, B5, B6, B10, B11, B12, C4, C5, C6, D7, D8, D9, E1, E2, E3, E10, E11, E12, F10, F11, F12, G1, G2, G3, G4, G5, G6.	False	