

sam_2025-06-03_17-29-18_Connect-ATP_synthase.pcrd

6/5/2025 15:08

Report Information

User: BioRad/sam

Data File Name: sam_2025-06-03_17-29-18_Connect-ATP_synthase.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 17:29

Run User: sam

Run Type: User-defined

Plate File: cgig-02-ATP_synthase-cfx-plate.pltd

ID: Notes:

Sample Volume: 20

Temperature Control Mode: Calculated

Lid Temperature: 105

Base Serial Number: BR006896

Optical Head Serial Number: 788BR07000

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
Α	Unk-1	Unk-1	Unk-1	Unk-2	Unk-2	Unk-2	Unk-3	Unk-3	Unk-3	Unk-4	Unk-4	Unk-4
	ATP-											
	synthase											
	12	12	12	14	14	14	15	15	15	18	18	18
В	Unk-5	Unk-5	Unk-5	Unk-6	Unk-6	Unk-6	Unk-7	Unk-7	Unk-7	Unk-8	Unk-8	Unk-8
	ATP-											
	synthase											
	19	19	19	24	24	24	25	25	25	29	29	29
С	Unk-9	Unk-9	Unk-9	Unk-10	Unk-10	Unk-10	Unk-11	Unk-11	Unk-11	Unk-12	Unk-12	Unk-12
	ATP-											
	synthase											
	39	39	39	40	40	40	43	43	43	49	49	49

Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
D	Unk-13	Unk-13	Unk-13	Unk-14	Unk-14	Unk-14	Unk-15	Unk-15	Unk-15	Unk-16	Unk-16	Unk-16
	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-
	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase
	53	53	53	59	59	59	60	60	60	62	62	62
E	Unk-17	Unk-17	Unk-17	Unk-18	Unk-18	Unk-18	Unk-19	Unk-19	Unk-19	Unk-20	Unk-20	Unk-20
	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-
	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase
	63	63	63	66	66	66	69	69	69	71	71	71
F	Unk-21	Unk-21	Unk-21	Unk-22	Unk-22	Unk-22	Unk-23	Unk-23	Unk-23	Unk-24	Unk-24	Unk-24
	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-	ATP-
	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase	synthase
	73	73	73	75	75	75	79	79	79	81	81	81
G	Unk-25 ATP- synthase 89	Unk-25 ATP- synthase 89	Unk-25 ATP- synthase 89	NTC-1 ATP- synthase	NTC-1 ATP- synthase	NTC-1 ATP- synthase						
Н												

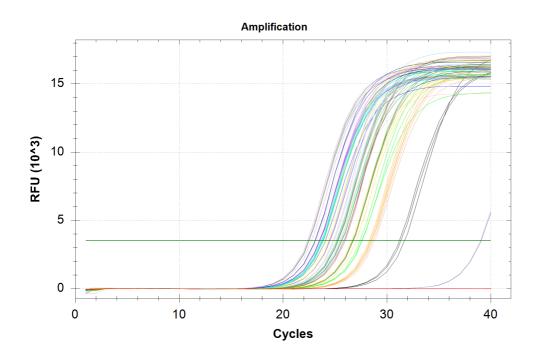
Quantification

Step #: 3

Analysis Mode: Fluorophore Cq Determination: Single Threshold

Baseline Method: SYBR: Auto Calculated **Threshold Setting:**

SYBR: 3542.05, Auto Calculated



Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	SYBR	ATP-synthase	Unkn-01	12	27.58	27.53	0.113
A02	SYBR	ATP-synthase	Unkn-01	12	27.61	27.53	0.113
A03	SYBR	ATP-synthase	Unkn-01	12	27.40	27.53	0.113
A04	SYBR	ATP-synthase	Unkn-02	14	N/A	0.00	0.000
A05	SYBR	ATP-synthase	Unkn-02	14	39.07	39.07	0.000

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std.
						Wican	Dev
A06	SYBR	ATP-synthase	Unkn-02	14	N/A	0.00	0.000
A07	SYBR	ATP-synthase	Unkn-03	15	22.47	23.43	1.630
A08	SYBR	ATP-synthase	Unkn-03	15	25.31	23.43	1.630
A09	SYBR	ATP-synthase	Unkn-03	15	22.51	23.43	1.630
A10	SYBR	ATP-synthase	Unkn-04	18	24.52	24.75	0.797
A11	SYBR	ATP-synthase	Unkn-04	18	25.64	24.75	0.797
A12	SYBR	ATP-synthase	Unkn-04	18	24.10	24.75	0.797
B01	SYBR	ATP-synthase	Unkn-05	19	25.34	25.04	0.270
B02	SYBR	ATP-synthase	Unkn-05	19	24.97	25.04	0.270
B03	SYBR	ATP-synthase	Unkn-05	19	24.81	25.04	0.270
B04	SYBR	ATP-synthase	Unkn-06	24	25.88	25.92	0.075
B05	SYBR	ATP-synthase	Unkn-06	24	26.01	25.92	0.075
B06	SYBR	ATP-synthase	Unkn-06	24	25.88	25.92	0.075
B07	SYBR	ATP-synthase	Unkn-07	25	31.71	31.42	0.256
B08	SYBR	ATP-synthase	Unkn-07	25	31.35	31.42	0.256
B09	SYBR	ATP-synthase	Unkn-07	25	31.21	31.42	0.256
B10	SYBR	ATP-synthase	Unkn-08	29	N/A	0.00	0.000
B11	SYBR	ATP-synthase	Unkn-08	29	39.02	39.02	0.000
B12	SYBR	ATP-synthase	Unkn-08	29	N/A	0.00	0.000
C01	SYBR	ATP-synthase	Unkn-09	39	23.86	23.77	0.092
C02	SYBR	ATP-synthase	Unkn-09	39	23.79	23.77	0.092
C03	SYBR	ATP-synthase	Unkn-09	39	23.67	23.77	0.092
C04	SYBR	ATP-synthase	Unkn-10	40	28.30	28.41	0.116
C05	SYBR	ATP-synthase	Unkn-10	40	28.39	28.41	0.116
C06	SYBR	ATP-synthase	Unkn-10	40	28.53	28.41	0.116
C07	SYBR	ATP-synthase	Unkn-11	43	25.33	25.20	0.112
C08	SYBR	ATP-synthase	Unkn-11	43	25.13	25.20	0.112
C09	SYBR	ATP-synthase	Unkn-11	43	25.15	25.20	0.112
C10	SYBR	ATP-synthase	Unkn-12	49	23.51	23.52	0.011
C11	SYBR	ATP-synthase	Unkn-12	49	23.52	23.52	0.011
C12	SYBR	ATP-synthase	Unkn-12	49	23.53	23.52	0.011
D01	SYBR	ATP-synthase	Unkn-13	53	24.30	24.07	0.204
D02	SYBR	ATP-synthase	Unkn-13	53	23.90	24.07	0.204
D03	SYBR	ATP-synthase	Unkn-13	53	24.02	24.07	0.204
D04	SYBR	ATP-synthase	Unkn-14	59	25.18	25.09	0.171
D05	SYBR	ATP-synthase	Unkn-14	59	24.89	25.09	0.171
D06	SYBR	ATP-synthase	Unkn-14	59	25.20	25.09	0.171
D07	SYBR	ATP-synthase	Unkn-15	60	25.26	25.27	0.022
D08	SYBR	ATP-synthase	Unkn-15	60	25.29	25.27	0.022
D09	SYBR	ATP-synthase	Unkn-15	60	25.25	25.27	0.022
D10	SYBR	ATP-synthase	Unkn-16	62	25.68	25.62	0.097
D11	SYBR	ATP-synthase	Unkn-16	62	25.67	25.62	0.097
D12	SYBR	ATP-synthase	Unkn-16	62	25.51	25.62	0.097
E01	SYBR	ATP-synthase	Unkn-17	63	28.82	28.66	0.057
E02	SYBR	ATT-synthase ATP-synthase	Unkn-17	63	28.67	28.66	0.166
E02	SYBR	ATT-synthase ATP-synthase	Unkn-17	63	28.49	28.66	0.166
E03	SYBR	ATP-synthase ATP-synthase	Unkn-18	66	22.46	22.52	0.100
E04	SYBR	ATP-synthase ATP-synthase	Unkn-18	66	22.73	22.52	0.194
LUJ	DIDK	1111-Symmase	OHKII-10	00	44.13	44.34	0.194

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
E07	SYBR	ATP-synthase	Unkn-19	69	26.71	26.74	0.038
E08	SYBR	ATP-synthase	Unkn-19	69	26.74	26.74	0.038
E09	SYBR	ATP-synthase	Unkn-19	69	26.78	26.74	0.038
E10	SYBR	ATP-synthase	Unkn-20	71	23.76	23.74	0.176
E11	SYBR	ATP-synthase	Unkn-20	71	23.90	23.74	0.176
E12	SYBR	ATP-synthase	Unkn-20	71	23.55	23.74	0.176
F01	SYBR	ATP-synthase	Unkn-21	73	23.47	23.33	0.123
F02	SYBR	ATP-synthase	Unkn-21	73	23.28	23.33	0.123
F03	SYBR	ATP-synthase	Unkn-21	73	23.24	23.33	0.123
F04	SYBR	ATP-synthase	Unkn-22	75	23.09	23.24	0.254
F05	SYBR	ATP-synthase	Unkn-22	75	23.11	23.24	0.254
F06	SYBR	ATP-synthase	Unkn-22	75	23.54	23.24	0.254
F07	SYBR	ATP-synthase	Unkn-23	79	24.44	24.45	0.028
F08	SYBR	ATP-synthase	Unkn-23	79	24.49	24.45	0.028
F09	SYBR	ATP-synthase	Unkn-23	79	24.44	24.45	0.028
F10	SYBR	ATP-synthase	Unkn-24	81	23.67	23.78	0.101
F11	SYBR	ATP-synthase	Unkn-24	81	23.82	23.78	0.101
F12	SYBR	ATP-synthase	Unkn-24	81	23.86	23.78	0.101
G01	SYBR	ATP-synthase	Unkn-25	89	27.08	26.81	0.250
G02	SYBR	ATP-synthase	Unkn-25	89	26.59	26.81	0.250
G03	SYBR	ATP-synthase	Unkn-25	89	26.76	26.81	0.250
G04	SYBR	ATP-synthase	NTC-01		N/A	0.00	0.000
G05	SYBR	ATP-synthase	NTC-01		N/A	0.00	0.000
G06	SYBR	ATP-synthase	NTC-01		N/A	0.00	0.000

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
ATP-synthase	ATP-synthase	False	Yes	100.0%

Sample Names

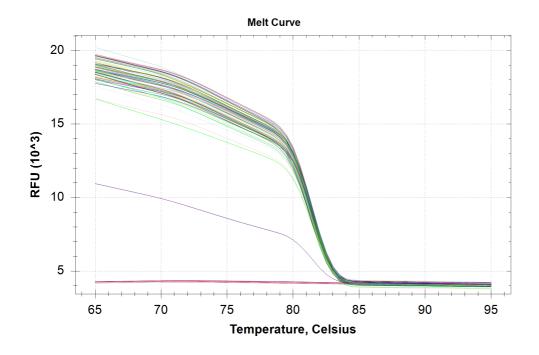
Name	Full Name	Control
12	12	No
14	14	No
15	15	No
18	18	No
19	19	No
24	24	No
25	25	No
29	29	No
39	39	No
40	40	No

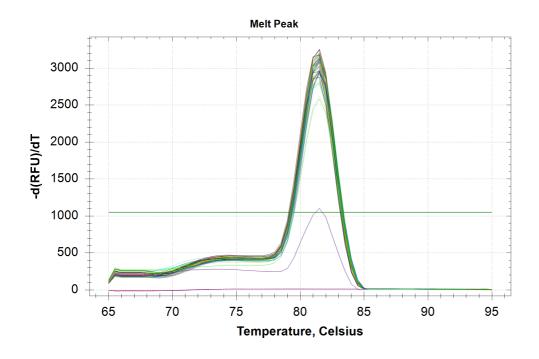
Sample Names

Name	Full	Control
	Name	
43	43	No
49	49	No
53	53	No
59	59	No
60	60	No
62	62	No
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
ATP-synthase	12		N/A	N/A	N/A	27.53	0.06541	N/A
ATP-synthase	14		N/A	N/A	N/A	39.07	0.00000	N/A
ATP-synthase	15		N/A	N/A	N/A	23.43	0.94096	N/A
ATP-synthase	18		N/A	N/A	N/A	24.75	0.45995	N/A
ATP-synthase	19		N/A	N/A	N/A	25.04	0.15597	N/A
ATP-synthase	24		N/A	N/A	N/A	25.92	0.04320	N/A
ATP-synthase	25		N/A	N/A	N/A	31.42	0.14777	N/A
ATP-synthase	29		N/A	N/A	N/A	39.02	0.00000	N/A
ATP-synthase	39		N/A	N/A	N/A	23.77	0.05311	N/A
ATP-synthase	40		N/A	N/A	N/A	28.41	0.06723	N/A
ATP-synthase	43		N/A	N/A	N/A	25.20	0.06471	N/A
ATP-synthase	49		N/A	N/A	N/A	23.52	0.00645	N/A
ATP-synthase	53		N/A	N/A	N/A	24.07	0.11789	N/A
ATP-synthase	59		N/A	N/A	N/A	25.09	0.09883	N/A
ATP-synthase	60		N/A	N/A	N/A	25.27	0.01269	N/A
ATP-synthase	62		N/A	N/A	N/A	25.62	0.05602	N/A
ATP-synthase	63		N/A	N/A	N/A	28.66	0.09601	N/A
ATP-synthase	66		N/A	N/A	N/A	22.52	0.11210	N/A
ATP-synthase	69		N/A	N/A	N/A	26.74	0.02168	N/A
ATP-synthase	71		N/A	N/A	N/A	23.74	0.10133	N/A
ATP-synthase	73		N/A	N/A	N/A	23.33	0.07124	N/A
ATP-synthase	75		N/A	N/A	N/A	23.24	0.14647	N/A
ATP-synthase	79		N/A	N/A	N/A	24.45	0.01608	N/A
ATP-synthase	81		N/A	N/A	N/A	23.78	0.05805	N/A
ATP-synthase	89		N/A	N/A	N/A	26.81	0.14435	N/A





Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	SYBR	ATP-synthase	Unkn-01	12	81.50
A02	SYBR	ATP-synthase	Unkn-01	12	81.50
A03	SYBR	ATP-synthase	Unkn-01	12	81.50
A04	SYBR	ATP-synthase	Unkn-02	14	None
A05	SYBR	ATP-synthase	Unkn-02	14	81.50
A06	SYBR	ATP-synthase	Unkn-02	14	None

Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A07	SYBR	ATP-synthase	Unkn-03	15	81.50
A08	SYBR	ATP-synthase	Unkn-03	15	81.50
A09	SYBR	ATP-synthase	Unkn-03	15	81.50
A10	SYBR	ATP-synthase	Unkn-04	18	81.50
A11	SYBR	ATP-synthase	Unkn-04	18	81.50
A12	SYBR	ATP-synthase	Unkn-04	18	81.50
B01	SYBR	ATP-synthase	Unkn-05	19	81.50
B02	SYBR	ATP-synthase	Unkn-05	19	81.50
B03	SYBR	ATP-synthase	Unkn-05	19	81.50
B04	SYBR	ATP-synthase	Unkn-06	24	81.50
B05	SYBR	ATP-synthase	Unkn-06	24	81.50
B06	SYBR	ATP-synthase	Unkn-06	24	81.50
B07	SYBR	ATP-synthase	Unkn-07	25	81.50
B08	SYBR	ATP-synthase	Unkn-07	25	81.50
B09	SYBR	ATP-synthase	Unkn-07	25	81.50
B10	SYBR	ATP-synthase	Unkn-08	29	None
B11	SYBR	ATP-synthase	Unkn-08	29	81.50
B12	SYBR	ATP-synthase	Unkn-08	29	None
C01	SYBR	ATP-synthase	Unkn-09	39	81.50
C02	SYBR	ATT-synthase ATP-synthase	Unkn-09	39	81.50
C03	SYBR	ATP-synthase	Unkn-09	39	81.50
C04	SYBR	ATT-synthase ATP-synthase	Unkn-10	40	81.50
C04	SYBR	ATT-synthase ATP-synthase	Unkn-10	40	81.50
C05	SYBR	ATT-synthase ATP-synthase	Unkn-10	40	81.50
C07	SYBR	ATP-synthase	Unkn-11	43	81.50
C07	SYBR	-	Unkn-11	43	81.50
C09	SYBR	ATP-synthase	Unkn-11		81.50
		ATP-synthase	_	43	
C10	SYBR	ATPth	Unkn-12	49	81.50
C11	SYBR	ATP-synthase	Unkn-12	49	81.50
C12	SYBR	ATP-synthase	Unkn-12	49	81.50
D01	SYBR	ATP-synthase	Unkn-13	53	81.50
D02	SYBR	ATP-synthase	Unkn-13	53	81.50
D03	SYBR	ATP-synthase	Unkn-13	53	81.50
D04	SYBR	ATP-synthase	Unkn-14	59	81.50
D05	SYBR	ATP-synthase	Unkn-14	59	81.50
D06	SYBR	ATP-synthase	Unkn-14	59	81.50
D07	SYBR	ATP-synthase	Unkn-15	60	81.50
D08	SYBR	ATP-synthase	Unkn-15	60	81.50
D09	SYBR	ATP-synthase	Unkn-15	60	81.50
D10	SYBR	ATP-synthase	Unkn-16	62	81.50
D11	SYBR	ATP-synthase	Unkn-16	62	81.50
D12	SYBR	ATP-synthase	Unkn-16	62	81.50
E01	SYBR	ATP-synthase	Unkn-17	63	81.50
E02	SYBR	ATP-synthase	Unkn-17	63	81.50
E03	SYBR	ATP-synthase	Unkn-17	63	81.50
E04	SYBR	ATP-synthase	Unkn-18	66	81.50
E05	SYBR	ATP-synthase	Unkn-18	66	81.50
E06	SYBR	ATP-synthase	Unkn-18	66	81.50
E07	SYBR	ATP-synthase	Unkn-19	69	81.50
E08	SYBR	ATP-synthase	Unkn-19	69	81.50

Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
E09	SYBR	ATP-synthase	Unkn-19	69	81.50
E10	SYBR	ATP-synthase	Unkn-20	71	81.50
E11	SYBR	ATP-synthase	Unkn-20	71	81.50
E12	SYBR	ATP-synthase	Unkn-20	71	81.50
F01	SYBR	ATP-synthase	Unkn-21	73	81.50
F02	SYBR	ATP-synthase	Unkn-21	73	81.50
F03	SYBR	ATP-synthase	Unkn-21	73	81.50
F04	SYBR	ATP-synthase	Unkn-22	75	81.50
F05	SYBR	ATP-synthase	Unkn-22	75	81.50
F06	SYBR	ATP-synthase	Unkn-22	75	81.50
F07	SYBR	ATP-synthase	Unkn-23	79	81.50
F08	SYBR	ATP-synthase	Unkn-23	79	81.50
F09	SYBR	ATP-synthase	Unkn-23	79	81.50
F10	SYBR	ATP-synthase	Unkn-24	81	81.50
F11	SYBR	ATP-synthase	Unkn-24	81	81.50
F12	SYBR	ATP-synthase	Unkn-24	81	81.50
G01	SYBR	ATP-synthase	Unkn-25	89	81.50
G02	SYBR	ATP-synthase	Unkn-25	89	81.50
G03	SYBR	ATP-synthase	Unkn-25	89	81.50
G04	SYBR	ATP-synthase	NTC-01		None
G05	SYBR	ATP-synthase	NTC-01		None
G06	SYBR	ATP-synthase	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		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	SYBR:A4, A6, B10, B12.	False	
Standard without a Cq	N/A	True		False	
Efficiency greater than	110.0	True			
Efficiency less than	90.0	True			

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
Std Curve R^2 less than	0.980	True			
Replicate group Cq Std Dev greater than	0.20	True	SYBR:A7, A8, A9, A10, A11, A12, B1, B2, B3, B7, B8, B9, D1, D2, D3, F4, F5, F6, G1, G2, G3.	False	