



# sam\_2024-03-25\_10-33-37\_Connect.pcrd

03/25/2024 11:54

## Report Information

**User:** BioRad/sam  
**Data File Name:** sam\_2024-03-25\_10-33-37\_Connect.pcrd  
**Data File Path:** \\owl.fish.washington.edu\web\scaphapoda\qPCR\_data\cfx\_connect\_data  
**Well Group Name:** All Wells  
**Report Differs from Last Save:** No

## Run Setup

### Run Information

**Run Date:** 03/25/2024 10:33  
**Run User:** sam  
**Run Type:** User-defined  
**Plate File:** 20240325-cgig-carryover-citrate\_synthase-DNMT1.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
A	Unk-1 citrate synthase 206	Unk-1 citrate synthase 206	Unk-2 citrate synthase 220	Unk-2 citrate synthase 220	Unk-3 citrate synthase 226	Unk-3 citrate synthase 226	Unk-4 citrate synthase 242	Unk-4 citrate synthase 242	Unk-5 citrate synthase 253	Unk-5 citrate synthase 253	Unk-6 citrate synthase 282	Unk-6 citrate synthase 282
B	Unk-7 citrate synthase 284	Unk-7 citrate synthase 284	Unk-8 citrate synthase 289	Unk-8 citrate synthase 289	Unk-9 citrate synthase 296	Unk-9 citrate synthase 296	Unk-10 citrate synthase 298	Unk-10 citrate synthase 298	Unk-11 citrate synthase 200	Unk-11 citrate synthase 200	Unk-12 citrate synthase 223	Unk-12 citrate synthase 223
C	Unk-13 citrate synthase 243	Unk-13 citrate synthase 243	Unk-14 citrate synthase 244	Unk-14 citrate synthase 244	Unk-15 citrate synthase 257	Unk-15 citrate synthase 257	Unk-16 citrate synthase 285	Unk-16 citrate synthase 285	NTC-1 citrate synthase	NTC-1 citrate synthase		
D	Unk-17 DNMT1 206	Unk-17 DNMT1 206	Unk-18 DNMT1 220	Unk-18 DNMT1 220	Unk-19 DNMT1 226	Unk-19 DNMT1 226	Unk-20 DNMT1 242	Unk-20 DNMT1 242	Unk-21 DNMT1 253	Unk-21 DNMT1 253	Unk-22 DNMT1 282	Unk-22 DNMT1 282

## Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
E	Unk-23 DNMT1 284	Unk-23 DNMT1 284	Unk-24 DNMT1 289	Unk-24 DNMT1 289	Unk-25 DNMT1 296	Unk-25 DNMT1 296	Unk-26 DNMT1 298	Unk-26 DNMT1 298	Unk-27 DNMT1 200	Unk-27 DNMT1 200	Unk-28 DNMT1 223	Unk-28 DNMT1 223
F	Unk-29 DNMT1 243	Unk-29 DNMT1 243	Unk-30 DNMT1 244	Unk-30 DNMT1 244	Unk-31 DNMT1 257	Unk-31 DNMT1 257	Unk-32 DNMT1 285	Unk-32 DNMT1 285	NTC-2 DNMT1	NTC-2 DNMT1		
G												
H												

## Quantification

**Step #: 3**

**Analysis Mode:** Target

**Cq Determination:** Single Threshold

**Baseline Method:**

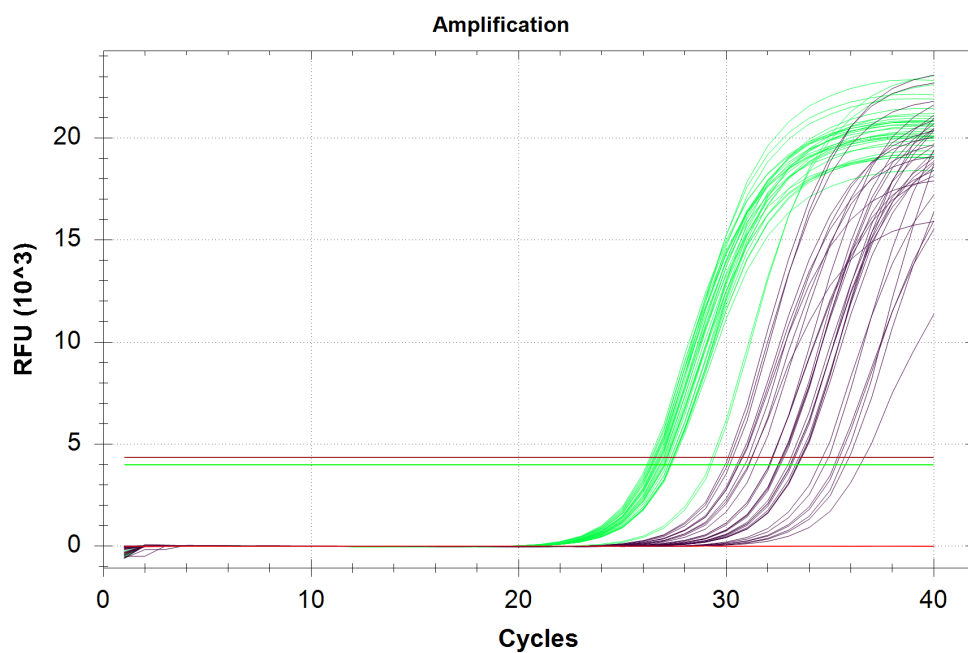
DNMT1: Auto Calculated

citrate synthase: Auto Calculated

**Threshold Setting:**

DNMT1: 4344.06, Auto Calculated

citrate synthase: 3976.36, Auto Calculated



## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	SYBR	citrate synthase	Unkn-01	206	27.04	27.12	0.111
A02	SYBR	citrate synthase	Unkn-01	206	27.20	27.12	0.111
A03	SYBR	citrate synthase	Unkn-02	220	26.45	26.53	0.114
A04	SYBR	citrate synthase	Unkn-02	220	26.61	26.53	0.114
A05	SYBR	citrate synthase	Unkn-03	226	26.61	26.66	0.058

## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A06	SYBR	citrate synthase	Unkn-03	226	26.70	26.66	0.058
A07	SYBR	citrate synthase	Unkn-04	242	27.29	27.29	0.009
A08	SYBR	citrate synthase	Unkn-04	242	27.30	27.29	0.009
A09	SYBR	citrate synthase	Unkn-05	253	26.27	26.31	0.053
A10	SYBR	citrate synthase	Unkn-05	253	26.35	26.31	0.053
A11	SYBR	citrate synthase	Unkn-06	282	26.17	26.19	0.042
A12	SYBR	citrate synthase	Unkn-06	282	26.22	26.19	0.042
B01	SYBR	citrate synthase	Unkn-07	284	26.89	26.83	0.076
B02	SYBR	citrate synthase	Unkn-07	284	26.78	26.83	0.076
B03	SYBR	citrate synthase	Unkn-08	289	27.31	27.33	0.033
B04	SYBR	citrate synthase	Unkn-08	289	27.35	27.33	0.033
B05	SYBR	citrate synthase	Unkn-09	296	26.96	26.98	0.037
B06	SYBR	citrate synthase	Unkn-09	296	27.01	26.98	0.037
B07	SYBR	citrate synthase	Unkn-10	298	27.30	27.29	0.014
B08	SYBR	citrate synthase	Unkn-10	298	27.28	27.29	0.014
B09	SYBR	citrate synthase	Unkn-11	200	26.33	26.37	0.056
B10	SYBR	citrate synthase	Unkn-11	200	26.41	26.37	0.056
B11	SYBR	citrate synthase	Unkn-12	223	26.82	26.92	0.145
B12	SYBR	citrate synthase	Unkn-12	223	27.02	26.92	0.145
C01	SYBR	citrate synthase	Unkn-13	243	29.18	29.23	0.062
C02	SYBR	citrate synthase	Unkn-13	243	29.27	29.23	0.062
C03	SYBR	citrate synthase	Unkn-14	244	26.39	26.53	0.188
C04	SYBR	citrate synthase	Unkn-14	244	26.66	26.53	0.188
C05	SYBR	citrate synthase	Unkn-15	257	26.57	26.54	0.031
C06	SYBR	citrate synthase	Unkn-15	257	26.52	26.54	0.031
C07	SYBR	citrate synthase	Unkn-16	285	27.11	27.15	0.061
C08	SYBR	citrate synthase	Unkn-16	285	27.19	27.15	0.061
C09	SYBR	citrate synthase	NTC-01		N/A	0.00	0.000

## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
C10	SYBR	citrate synthase	NTC-01		N/A	0.00	0.000
D01	SYBR	DNMT1	Unkn-17	206	35.35	35.40	0.067
D02	SYBR	DNMT1	Unkn-17	206	35.45	35.40	0.067
D03	SYBR	DNMT1	Unkn-18	220	32.20	32.20	0.002
D04	SYBR	DNMT1	Unkn-18	220	32.20	32.20	0.002
D05	SYBR	DNMT1	Unkn-19	226	33.30	33.40	0.139
D06	SYBR	DNMT1	Unkn-19	226	33.50	33.40	0.139
D07	SYBR	DNMT1	Unkn-20	242	33.23	33.23	0.007
D08	SYBR	DNMT1	Unkn-20	242	33.24	33.23	0.007
D09	SYBR	DNMT1	Unkn-21	253	31.24	31.39	0.213
D10	SYBR	DNMT1	Unkn-21	253	31.54	31.39	0.213
D11	SYBR	DNMT1	Unkn-22	282	32.71	32.69	0.031
D12	SYBR	DNMT1	Unkn-22	282	32.67	32.69	0.031
E01	SYBR	DNMT1	Unkn-23	284	30.18	30.14	0.069
E02	SYBR	DNMT1	Unkn-23	284	30.09	30.14	0.069
E03	SYBR	DNMT1	Unkn-24	289	32.77	32.71	0.085
E04	SYBR	DNMT1	Unkn-24	289	32.65	32.71	0.085
E05	SYBR	DNMT1	Unkn-25	296	31.21	30.76	0.642
E06	SYBR	DNMT1	Unkn-25	296	30.31	30.76	0.642
E07	SYBR	DNMT1	Unkn-26	298	35.69	35.30	0.541
E08	SYBR	DNMT1	Unkn-26	298	34.92	35.30	0.541
E09	SYBR	DNMT1	Unkn-27	200	33.58	33.59	0.024
E10	SYBR	DNMT1	Unkn-27	200	33.61	33.59	0.024
E11	SYBR	DNMT1	Unkn-28	223	32.24	32.68	0.621
E12	SYBR	DNMT1	Unkn-28	223	33.12	32.68	0.621
F01	SYBR	DNMT1	Unkn-29	243	36.64	36.28	0.513
F02	SYBR	DNMT1	Unkn-29	243	35.91	36.28	0.513
F03	SYBR	DNMT1	Unkn-30	244	30.67	30.86	0.273
F04	SYBR	DNMT1	Unkn-30	244	31.05	30.86	0.273
F05	SYBR	DNMT1	Unkn-31	257	30.75	30.77	0.028
F06	SYBR	DNMT1	Unkn-31	257	30.79	30.77	0.028
F07	SYBR	DNMT1	Unkn-32	285	33.63	34.13	0.704
F08	SYBR	DNMT1	Unkn-32	285	34.63	34.13	0.704
F09	SYBR	DNMT1	NTC-02		N/A	0.00	0.000
F10	SYBR	DNMT1	NTC-02		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
citrate synthase	citrate synthase	False	Yes	100.0%
DNMT1	DNMT1	False	Yes	100.0%

## Sample Names

Name	Full Name	Control
200	200	No
206	206	No
220	220	No
223	223	No
226	226	No
242	242	No
243	243	No
244	244	No
253	253	No
257	257	No
282	282	No
284	284	No
285	285	No
289	289	No
296	296	No
298	298	No

## Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
citrate synthase	200		N/A	N/A	N/A	26.37	0.03983	N/A
citrate synthase	206		N/A	N/A	N/A	27.12	0.07882	N/A
citrate synthase	220		N/A	N/A	N/A	26.53	0.08087	N/A
citrate synthase	223		N/A	N/A	N/A	26.92	0.10255	N/A
citrate synthase	226		N/A	N/A	N/A	26.66	0.04104	N/A
citrate synthase	242		N/A	N/A	N/A	27.29	0.00670	N/A
citrate synthase	243		N/A	N/A	N/A	29.23	0.04398	N/A
citrate synthase	244		N/A	N/A	N/A	26.53	0.13311	N/A
citrate synthase	253		N/A	N/A	N/A	26.31	0.03764	N/A
citrate synthase	257		N/A	N/A	N/A	26.54	0.02161	N/A
citrate synthase	282		N/A	N/A	N/A	26.19	0.02948	N/A
citrate synthase	284		N/A	N/A	N/A	26.83	0.05361	N/A
citrate synthase	285		N/A	N/A	N/A	27.15	0.04348	N/A
citrate synthase	289		N/A	N/A	N/A	27.33	0.02329	N/A
citrate synthase	296		N/A	N/A	N/A	26.98	0.02586	N/A
citrate synthase	298		N/A	N/A	N/A	27.29	0.01009	N/A

## Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
DNMT1	200		N/A	N/A	N/A	33.59	0.01705	N/A
DNMT1	206		N/A	N/A	N/A	35.40	0.04735	N/A
DNMT1	220		N/A	N/A	N/A	32.20	0.00156	N/A
DNMT1	223		N/A	N/A	N/A	32.68	0.43941	N/A
DNMT1	226		N/A	N/A	N/A	33.40	0.09852	N/A
DNMT1	242		N/A	N/A	N/A	33.23	0.00464	N/A
DNMT1	243		N/A	N/A	N/A	36.28	0.36244	N/A
DNMT1	244		N/A	N/A	N/A	30.86	0.19337	N/A
DNMT1	253		N/A	N/A	N/A	31.39	0.15041	N/A
DNMT1	257		N/A	N/A	N/A	30.77	0.01953	N/A
DNMT1	282		N/A	N/A	N/A	32.69	0.02182	N/A
DNMT1	284		N/A	N/A	N/A	30.14	0.04860	N/A
DNMT1	285		N/A	N/A	N/A	34.13	0.49753	N/A
DNMT1	289		N/A	N/A	N/A	32.71	0.06005	N/A
DNMT1	296		N/A	N/A	N/A	30.76	0.45379	N/A
DNMT1	298		N/A	N/A	N/A	35.30	0.38231	N/A

## 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		False	
Standard without a Cq	N/A	True		False	
Efficiency greater than	110.0	True			
Efficiency less than	90.0	True			
Std Curve R <sup>2</sup> less than	0.980	True			

## Data

<b>Description</b>	<b>Value</b>	<b>Use</b>	<b>Results</b>	<b>Exclude Wells</b>	<b>All excluded wells</b>
Replicate group Cq Std Dev greater than	0.20	True	DNMT1:D9, D10, E5, E6, E7, E8, E11, E12, F1, F2, F3, F4, F7, F8.	False	