



sam_2023-08-17_11-58-46_Connect.pcrd

8/17/2023 16:27

Report Information

User: BioRad/sam

Data File Name: sam_2023-08-17_11-58-46_Connect.pcrd

Data File Path: C:\Users\Samb\Downloads\20230817-qPCR

Well Group Name: All Wells

Report Differs from Last Save: No

Run Setup

Run Information

Run Date: 8/17/2023 11:59

Run User: sam

Run Type: User-defined

Plate File: 20230817-cgig-polyIC-actin-cGAS-citrate_synthase-DICER-GAPDH-IRF2-SACSIN-VIPERIN.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 Cg_Actin D4	Unk Cg_Actin D9	Unk Cg_Actin D12	Unk Cg_Actin D14	NTC-1 Cg_Actin	NTC-1 Cg_Actin						
B	Unk Cg_cGAS D4	Unk Cg_cGAS D9	Unk Cg_cGAS D12	Unk Cg_cGAS D14	NTC-2 Cg_cGAS	NTC-2 Cg_cGAS						
C	Unk Cg_citrate- synt D4	Unk Cg_citrate- synt D9	Unk Cg_citrate- synt D12	Unk Cg_citrate- synt D14	NTC-3 Cg_citrate- synt	NTC-3 Cg_citrate- synt						
D	Unk Cg_DICER D4	Unk Cg_DICER D9	Unk Cg_DICER D12	Unk Cg_DICER D14	NTC-4 Cg_DICER	NTC-4 Cg_DICER						
E	Unk Cg_GAPDH D4	Unk Cg_GAPDH D9	Unk Cg_GAPDH D12	Unk Cg_GAPDH D14	NTC-5 Cg_GAPDH	NTC-5 Cg_GAPDH						

Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
F	Unk Cg_IRF2 D4	Unk Cg_IRF2 D9	Unk Cg_IRF2 D12	Unk Cg_IRF2 D14	NTC-6 Cg_IRF2	NTC-6 Cg_IRF2						
G	Unk Cg_SACSI N D4	Unk Cg_SACSI N D9	Unk Cg_SACSI N D12	Unk Cg_SACSI N D14	NTC-7 Cg_SACSI N	NTC-7 Cg_SACSI N						
H	Unk Cg_VIPERI N D4	Unk Cg_VIPERI N D9	Unk Cg_VIPERI N D12	Unk Cg_VIPERI N D14	NTC-8 Cg_VIPERI N	NTC-8 Cg_VIPERI N						

Quantification

Step #: 3

Analysis Mode: Target

Cq Determination: Single Threshold

Baseline Method:

Cg_VIPERIN: Auto Calculated

Cg_DICER: Auto Calculated

Cg_cGAS: Auto Calculated

Cg_Actin: Auto Calculated

Cg_citrate-synt: Auto Calculated

Cg_IRF2: Auto Calculated

Cg_GAPDH: Auto Calculated

Cg_SACSIN: Auto Calculated

Threshold Setting:

Cg_VIPERIN: 7526.57, Auto Calculated

Cg_DICER: 12383.16, Auto Calculated

Cg_cGAS: 6507.45, Auto Calculated

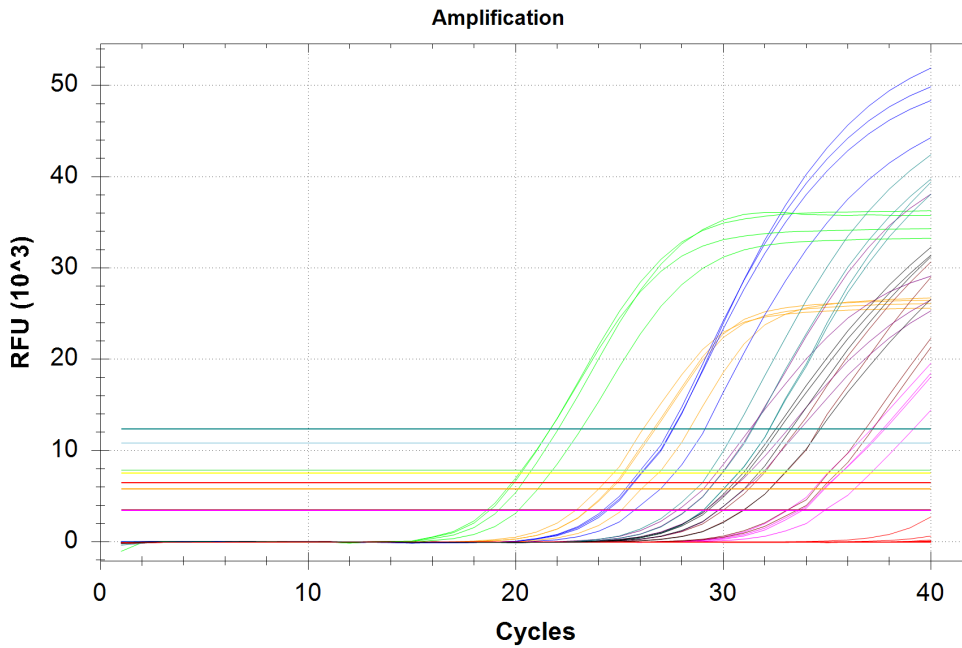
Cg_Actin: 3510.73, Auto Calculated

Cg_citrate-synt: 10840.59, Auto Calculated

Cg_IRF2: 7856.27, Auto Calculated

Cg_GAPDH: 5804.12, Auto Calculated

Cg_SACSIN: 3434.45, Auto Calculated



Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	SYBR	Cg_Actin	Unkn	D4	19.19	19.19	0.000
A02	SYBR	Cg_Actin	Unkn	D9	18.77	18.77	0.000
A03	SYBR	Cg_Actin	Unkn	D12	18.62	18.62	0.000
A04	SYBR	Cg_Actin	Unkn	D14	20.15	20.15	0.000
A05	SYBR	Cg_Actin	NTC-1		N/A	0.00	0.000
A06	SYBR	Cg_Actin	NTC-1		N/A	0.00	0.000
B01	SYBR	Cg_cGAS	Unkn	D4	29.29	29.29	0.000
B02	SYBR	Cg_cGAS	Unkn	D9	29.56	29.56	0.000
B03	SYBR	Cg_cGAS	Unkn	D12	30.75	30.75	0.000
B04	SYBR	Cg_cGAS	Unkn	D14	31.37	31.37	0.000
B05	SYBR	Cg_cGAS	NTC-2		N/A	0.00	0.000
B06	SYBR	Cg_cGAS	NTC-2		N/A	0.00	0.000
C01	SYBR	Cg_citrate-synt	Unkn	D4	27.06	27.06	0.000
C02	SYBR	Cg_citrate-synt	Unkn	D9	27.22	27.22	0.000
C03	SYBR	Cg_citrate-synt	Unkn	D12	27.18	27.18	0.000
C04	SYBR	Cg_citrate-synt	Unkn	D14	28.71	28.71	0.000
C05	SYBR	Cg_citrate-synt	NTC-3		N/A	0.00	0.000
C06	SYBR	Cg_citrate-synt	NTC-3		N/A	0.00	0.000
D01	SYBR	Cg_DICER	Unkn	D4	31.42	31.42	0.000
D02	SYBR	Cg_DICER	Unkn	D9	32.23	32.23	0.000
D03	SYBR	Cg_DICER	Unkn	D12	30.61	30.61	0.000
D04	SYBR	Cg_DICER	Unkn	D14	32.22	32.22	0.000
D05	SYBR	Cg_DICER	NTC-4		N/A	0.00	0.000
D06	SYBR	Cg_DICER	NTC-4		N/A	0.00	0.000
E01	SYBR	Cg_GAPDH	Unkn	D4	24.59	24.59	0.000
E02	SYBR	Cg_GAPDH	Unkn	D9	24.51	24.51	0.000
E03	SYBR	Cg_GAPDH	Unkn	D12	24.00	24.00	0.000
E04	SYBR	Cg_GAPDH	Unkn	D14	26.05	26.05	0.000
E05	SYBR	Cg_GAPDH	NTC-5		N/A	0.00	0.000
E06	SYBR	Cg_GAPDH	NTC-5		N/A	0.00	0.000
F01	SYBR	Cg_IRF2	Unkn	D4	32.08	32.08	0.000
F02	SYBR	Cg_IRF2	Unkn	D9	33.10	33.10	0.000
F03	SYBR	Cg_IRF2	Unkn	D12	35.62	35.62	0.000
F04	SYBR	Cg_IRF2	Unkn	D14	35.20	35.20	0.000
F05	SYBR	Cg_IRF2	NTC-6		N/A	0.00	0.000
F06	SYBR	Cg_IRF2	NTC-6		N/A	0.00	0.000
G01	SYBR	Cg_SACSIN	Unkn	D4	33.06	33.06	0.000
G02	SYBR	Cg_SACSIN	Unkn	D9	33.79	33.79	0.000
G03	SYBR	Cg_SACSIN	Unkn	D12	33.65	33.65	0.000
G04	SYBR	Cg_SACSIN	Unkn	D14	34.86	34.86	0.000
G05	SYBR	Cg_SACSIN	NTC-7		N/A	0.00	0.000
G06	SYBR	Cg_SACSIN	NTC-7		N/A	0.00	0.000
H01	SYBR	Cg_VIPERIN	Unkn	D4	31.11	31.11	0.000
H02	SYBR	Cg_VIPERIN	Unkn	D9	31.69	31.69	0.000
H03	SYBR	Cg_VIPERIN	Unkn	D12	30.95	30.95	0.000
H04	SYBR	Cg_VIPERIN	Unkn	D14	32.94	32.94	0.000
H05	SYBR	Cg_VIPERIN	NTC-8		N/A	0.00	0.000

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
H06	SYBR	Cg_VIPERIN	NTC-8		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
Cg_Actin	Cg_Actin	False	Yes	100.0%
Cg_cGAS	Cg_cGAS	False	Yes	100.0%
Cg_citrate-synt	Cg_citrate-synt	False	Yes	100.0%
Cg_DICER	Cg_DICER	False	Yes	100.0%
Cg_GAPDH	Cg_GAPDH	False	Yes	100.0%
Cg_IRF2	Cg_IRF2	False	Yes	100.0%
Cg_SACSIN	Cg_SACSIN	False	Yes	100.0%
Cg_VIPERIN	Cg_VIPERIN	False	Yes	100.0%

Sample Names

Name	Full Name	Control
D12	D12	No
D14	D14	No
D4	D4	No
D9	D9	No

Gene Expression - Bar Chart Data

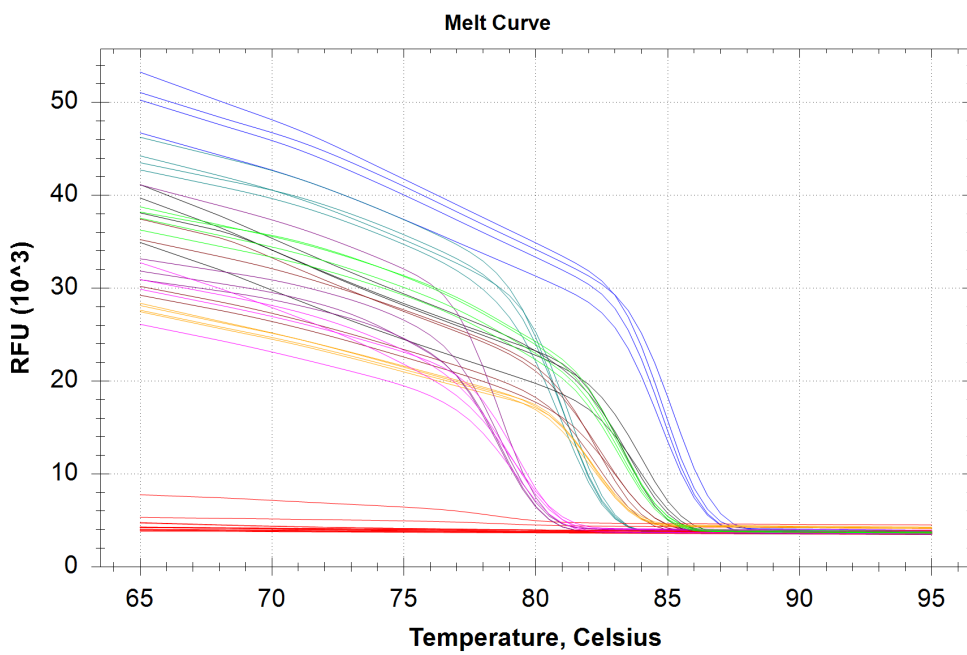
Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
Cg_Actin	D12		N/A	N/A	N/A	18.62	0.00000	N/A
Cg_Actin	D14		N/A	N/A	N/A	20.15	0.00000	N/A
Cg_Actin	D4		N/A	N/A	N/A	19.19	0.00000	N/A
Cg_Actin	D9		N/A	N/A	N/A	18.77	0.00000	N/A
Cg_cGAS	D12		N/A	N/A	N/A	30.75	0.00000	N/A
Cg_cGAS	D14		N/A	N/A	N/A	31.37	0.00000	N/A
Cg_cGAS	D4		N/A	N/A	N/A	29.29	0.00000	N/A
Cg_cGAS	D9		N/A	N/A	N/A	29.56	0.00000	N/A
Cg_citrate-synt	D12		N/A	N/A	N/A	27.18	0.00000	N/A
Cg_citrate-synt	D14		N/A	N/A	N/A	28.71	0.00000	N/A
Cg_citrate-synt	D4		N/A	N/A	N/A	27.06	0.00000	N/A
Cg_citrate-synt	D9		N/A	N/A	N/A	27.22	0.00000	N/A
Cg_DICER	D12		N/A	N/A	N/A	30.61	0.00000	N/A
Cg_DICER	D14		N/A	N/A	N/A	32.22	0.00000	N/A
Cg_DICER	D4		N/A	N/A	N/A	31.42	0.00000	N/A
Cg_DICER	D9		N/A	N/A	N/A	32.23	0.00000	N/A
Cg_GAPDH	D12		N/A	N/A	N/A	24.00	0.00000	N/A
Cg_GAPDH	D14		N/A	N/A	N/A	26.05	0.00000	N/A

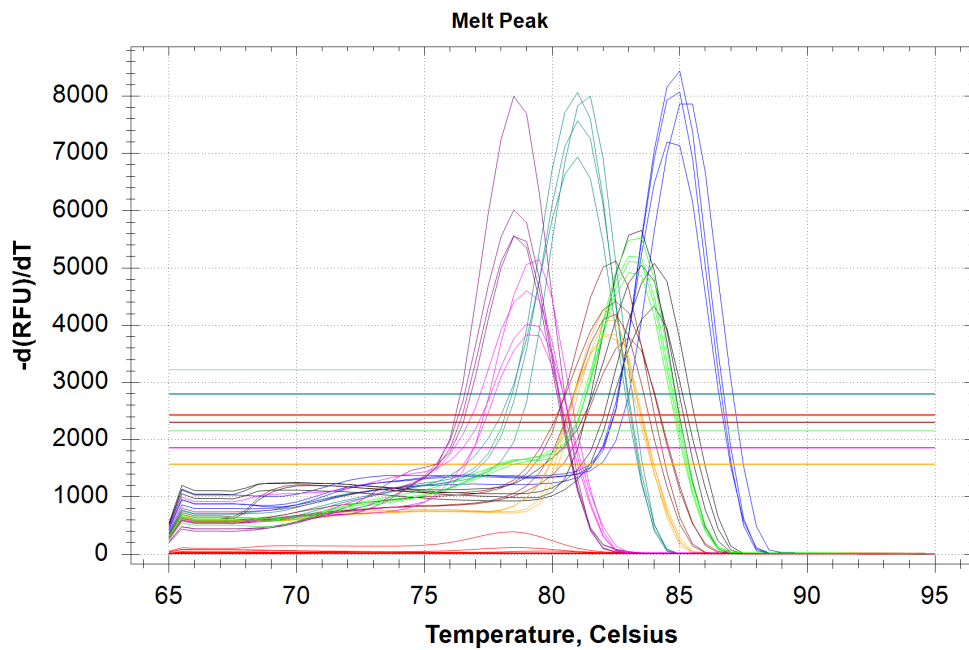
Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
Cg_GAPDH	D4		N/A	N/A	N/A	24.59	0.00000	N/A
Cg_GAPDH	D9		N/A	N/A	N/A	24.51	0.00000	N/A
Cg_IRF2	D12		N/A	N/A	N/A	35.62	0.00000	N/A
Cg_IRF2	D14		N/A	N/A	N/A	35.20	0.00000	N/A
Cg_IRF2	D4		N/A	N/A	N/A	32.08	0.00000	N/A
Cg_IRF2	D9		N/A	N/A	N/A	33.10	0.00000	N/A
Cg_SACSIN	D12		N/A	N/A	N/A	33.65	0.00000	N/A
Cg_SACSIN	D14		N/A	N/A	N/A	34.86	0.00000	N/A
Cg_SACSIN	D4		N/A	N/A	N/A	33.06	0.00000	N/A
Cg_SACSIN	D9		N/A	N/A	N/A	33.79	0.00000	N/A
Cg_VIPERIN	D12		N/A	N/A	N/A	30.95	0.00000	N/A
Cg_VIPERIN	D14		N/A	N/A	N/A	32.94	0.00000	N/A
Cg_VIPERIN	D4		N/A	N/A	N/A	31.11	0.00000	N/A
Cg_VIPERIN	D9		N/A	N/A	N/A	31.69	0.00000	N/A

Melt Curve

Step #: 5





Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	SYBR	Cg_Actin	Unkn	D4	83.00
A02	SYBR	Cg_Actin	Unkn	D9	83.50
A03	SYBR	Cg_Actin	Unkn	D12	83.00
A04	SYBR	Cg_Actin	Unkn	D14	83.00
A05	SYBR	Cg_Actin	NTC-1		None
A06	SYBR	Cg_Actin	NTC-1		None
B01	SYBR	Cg_cGAS	Unkn	D4	78.50
B02	SYBR	Cg_cGAS	Unkn	D9	78.50
B03	SYBR	Cg_cGAS	Unkn	D12	78.50
B04	SYBR	Cg_cGAS	Unkn	D14	78.50
B05	SYBR	Cg_cGAS	NTC-2		None
B06	SYBR	Cg_cGAS	NTC-2		None
C01	SYBR	Cg_citrate-synt	Unkn	D4	85.50
C02	SYBR	Cg_citrate-synt	Unkn	D9	85.00
C03	SYBR	Cg_citrate-synt	Unkn	D12	85.00
C04	SYBR	Cg_citrate-synt	Unkn	D14	84.50
C05	SYBR	Cg_citrate-synt	NTC-3		None
C06	SYBR	Cg_citrate-synt	NTC-3		None
D01	SYBR	Cg_DICER	Unkn	D4	81.00
D02	SYBR	Cg_DICER	Unkn	D9	81.00
D03	SYBR	Cg_DICER	Unkn	D12	81.00
D04	SYBR	Cg_DICER	Unkn	D14	81.50
D05	SYBR	Cg_DICER	NTC-4		None
D06	SYBR	Cg_DICER	NTC-4		None
E01	SYBR	Cg_GAPDH	Unkn	D4	82.50
E02	SYBR	Cg_GAPDH	Unkn	D9	82.50
E03	SYBR	Cg_GAPDH	Unkn	D12	82.00
E04	SYBR	Cg_GAPDH	Unkn	D14	82.00
E05	SYBR	Cg_GAPDH	NTC-5		None

Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
E06	SYBR	Cg_GAPDH	NTC-5		None
F01	SYBR	Cg_IRF2	Unkn	D4	82.50
F02	SYBR	Cg_IRF2	Unkn	D9	82.50
F03	SYBR	Cg_IRF2	Unkn	D12	83.00
F04	SYBR	Cg_IRF2	Unkn	D14	82.50
F05	SYBR	Cg_IRF2	NTC-6		None
F06	SYBR	Cg_IRF2	NTC-6		None
G01	SYBR	Cg_SACSIN	Unkn	D4	79.00
G02	SYBR	Cg_SACSIN	Unkn	D9	79.00
G03	SYBR	Cg_SACSIN	Unkn	D12	79.50
G04	SYBR	Cg_SACSIN	Unkn	D14	79.00
G05	SYBR	Cg_SACSIN	NTC-7		None
G06	SYBR	Cg_SACSIN	NTC-7		None
H01	SYBR	Cg_VIPERIN	Unkn	D4	84.00
H02	SYBR	Cg_VIPERIN	Unkn	D9	83.50
H03	SYBR	Cg_VIPERIN	Unkn	D12	83.50
H04	SYBR	Cg_VIPERIN	Unkn	D14	84.00
H05	SYBR	Cg_VIPERIN	NTC-8		None
H06	SYBR	Cg_VIPERIN	NTC-8		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		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		False	