



# sam\_2024-03-25\_07-35-33\_Connect.pcrd

03/25/2024 10:40

## Report Information

User: BioRad/sam

Data File Name: sam\_2024-03-25\_07-35-33\_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 07:35

Run User: sam

Run Type: User-defined

Plate File: 20240325-cgig-carryover-GAPDH-HSP90.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 GAPDH 206	Unk-1 GAPDH 206	Unk-2 GAPDH 220	Unk-2 GAPDH 220	Unk-3 GAPDH 226	Unk-3 GAPDH 226	Unk-4 GAPDH 242	Unk-4 GAPDH 242	Unk-5 GAPDH 253	Unk-5 GAPDH 253	Unk-6 GAPDH 282	Unk-6 GAPDH 282
B	Unk-7 GAPDH 284	Unk-7 GAPDH 284	Unk-8 GAPDH 289	Unk-8 GAPDH 289	Unk-9 GAPDH 296	Unk-9 GAPDH 296	Unk-10 GAPDH 298	Unk-10 GAPDH 298	Unk-11 GAPDH 200	Unk-11 GAPDH 200	Unk-12 GAPDH 223	Unk-12 GAPDH 223
C	Unk-13 GAPDH 243	Unk-13 GAPDH 243	Unk-14 GAPDH 244	Unk-14 GAPDH 244	Unk-15 GAPDH 257	Unk-15 GAPDH 257	Unk-16 GAPDH 285	Unk-16 GAPDH 285	NTC-1 GAPDH	NTC-1 GAPDH		
D	Unk-17 HSP90 206	Unk-17 HSP90 206	Unk-18 HSP90 220	Unk-18 HSP90 220	Unk-19 HSP90 226	Unk-19 HSP90 226	Unk-20 HSP90 242	Unk-20 HSP90 242	Unk-21 HSP90 253	Unk-21 HSP90 253	Unk-22 HSP90 282	Unk-22 HSP90 282
E	Unk-23 HSP90 284	Unk-23 HSP90 284	Unk-24 HSP90 289	Unk-24 HSP90 289	Unk-25 HSP90 296	Unk-25 HSP90 296	Unk-26 HSP90 298	Unk-26 HSP90 298	Unk-27 HSP90 200	Unk-27 HSP90 200	Unk-28 HSP90 223	Unk-28 HSP90 223

## Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
F	Unk-29 HSP90 243	Unk-29 HSP90 243	Unk-30 HSP90 244	Unk-30 HSP90 244	Unk-31 HSP90 257	Unk-31 HSP90 257	Unk-32 HSP90 285	Unk-32 HSP90 285	NTC-2 HSP90	NTC-2 HSP90		
G												
H												

## Quantification

Step #: 3

Analysis Mode: Target

Cq Determination: Single Threshold

Baseline Method:

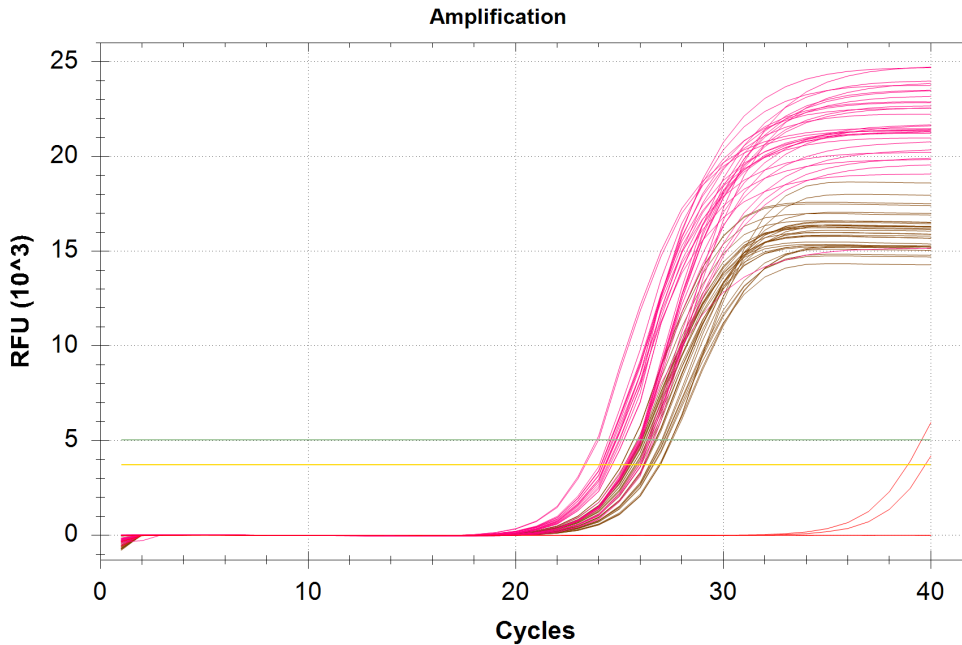
HSP90: Auto Calculated

GAPDH: Auto Calculated

Threshold Setting:

HSP90: 5030.93, Auto Calculated

GAPDH: 3722.84, Auto Calculated



## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	SYBR	GAPDH	Unkn-01	206	26.19	26.18	0.014
A02	SYBR	GAPDH	Unkn-01	206	26.17	26.18	0.014
A03	SYBR	GAPDH	Unkn-02	220	26.05	25.95	0.145
A04	SYBR	GAPDH	Unkn-02	220	25.84	25.95	0.145
A05	SYBR	GAPDH	Unkn-03	226	25.38	25.41	0.044
A06	SYBR	GAPDH	Unkn-03	226	25.45	25.41	0.044
A07	SYBR	GAPDH	Unkn-04	242	26.23	26.20	0.038
A08	SYBR	GAPDH	Unkn-04	242	26.18	26.20	0.038
A09	SYBR	GAPDH	Unkn-05	253	25.79	25.87	0.118
A10	SYBR	GAPDH	Unkn-05	253	25.95	25.87	0.118

## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A11	SYBR	GAPDH	Unkn-06	282	25.55	25.54	0.017
A12	SYBR	GAPDH	Unkn-06	282	25.53	25.54	0.017
B01	SYBR	GAPDH	Unkn-07	284	25.75	25.70	0.072
B02	SYBR	GAPDH	Unkn-07	284	25.65	25.70	0.072
B03	SYBR	GAPDH	Unkn-08	289	26.52	26.59	0.092
B04	SYBR	GAPDH	Unkn-08	289	26.65	26.59	0.092
B05	SYBR	GAPDH	Unkn-09	296	26.54	26.58	0.053
B06	SYBR	GAPDH	Unkn-09	296	26.62	26.58	0.053
B07	SYBR	GAPDH	Unkn-10	298	26.90	26.93	0.050
B08	SYBR	GAPDH	Unkn-10	298	26.97	26.93	0.050
B09	SYBR	GAPDH	Unkn-11	200	25.43	25.43	0.009
B10	SYBR	GAPDH	Unkn-11	200	25.42	25.43	0.009
B11	SYBR	GAPDH	Unkn-12	223	25.51	25.58	0.097
B12	SYBR	GAPDH	Unkn-12	223	25.65	25.58	0.097
C01	SYBR	GAPDH	Unkn-13	243	26.95	26.96	0.002
C02	SYBR	GAPDH	Unkn-13	243	26.96	26.96	0.002
C03	SYBR	GAPDH	Unkn-14	244	25.09	25.17	0.105
C04	SYBR	GAPDH	Unkn-14	244	25.24	25.17	0.105
C05	SYBR	GAPDH	Unkn-15	257	25.09	25.09	0.007
C06	SYBR	GAPDH	Unkn-15	257	25.10	25.09	0.007
C07	SYBR	GAPDH	Unkn-16	285	26.44	26.45	0.023
C08	SYBR	GAPDH	Unkn-16	285	26.47	26.45	0.023
C09	SYBR	GAPDH	NTC-01		38.89	39.31	0.594
C10	SYBR	GAPDH	NTC-01		39.73	39.31	0.594
D01	SYBR	HSP90	Unkn-17	206	26.48	26.48	0.009
D02	SYBR	HSP90	Unkn-17	206	26.47	26.48	0.009
D03	SYBR	HSP90	Unkn-18	220	24.58	24.65	0.095
D04	SYBR	HSP90	Unkn-18	220	24.72	24.65	0.095
D05	SYBR	HSP90	Unkn-19	226	24.66	24.76	0.139
D06	SYBR	HSP90	Unkn-19	226	24.86	24.76	0.139
D07	SYBR	HSP90	Unkn-20	242	25.21	25.21	0.006
D08	SYBR	HSP90	Unkn-20	242	25.21	25.21	0.006
D09	SYBR	HSP90	Unkn-21	253	24.57	24.52	0.069
D10	SYBR	HSP90	Unkn-21	253	24.47	24.52	0.069
D11	SYBR	HSP90	Unkn-22	282	24.80	24.89	0.125
D12	SYBR	HSP90	Unkn-22	282	24.97	24.89	0.125
E01	SYBR	HSP90	Unkn-23	284	25.99	25.95	0.061
E02	SYBR	HSP90	Unkn-23	284	25.91	25.95	0.061
E03	SYBR	HSP90	Unkn-24	289	25.94	26.01	0.096
E04	SYBR	HSP90	Unkn-24	289	26.08	26.01	0.096
E05	SYBR	HSP90	Unkn-25	296	25.10	25.06	0.057
E06	SYBR	HSP90	Unkn-25	296	25.02	25.06	0.057
E07	SYBR	HSP90	Unkn-26	298	26.58	26.62	0.051
E08	SYBR	HSP90	Unkn-26	298	26.65	26.62	0.051
E09	SYBR	HSP90	Unkn-27	200	26.02	26.00	0.018
E10	SYBR	HSP90	Unkn-27	200	25.99	26.00	0.018
E11	SYBR	HSP90	Unkn-28	223	24.85	25.39	0.755
E12	SYBR	HSP90	Unkn-28	223	25.92	25.39	0.755
F01	SYBR	HSP90	Unkn-29	243	26.41	26.38	0.043

## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
F02	SYBR	HSP90	Unkn-29	243	26.35	26.38	0.043
F03	SYBR	HSP90	Unkn-30	244	23.90	23.94	0.066
F04	SYBR	HSP90	Unkn-30	244	23.99	23.94	0.066
F05	SYBR	HSP90	Unkn-31	257	24.60	24.71	0.166
F06	SYBR	HSP90	Unkn-31	257	24.83	24.71	0.166
F07	SYBR	HSP90	Unkn-32	285	26.04	26.05	0.022
F08	SYBR	HSP90	Unkn-32	285	26.07	26.05	0.022
F09	SYBR	HSP90	NTC-02		N/A	0.00	0.000
F10	SYBR	HSP90	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
GAPDH	GAPDH	False	Yes	100.0%
HSP90	HSP90	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

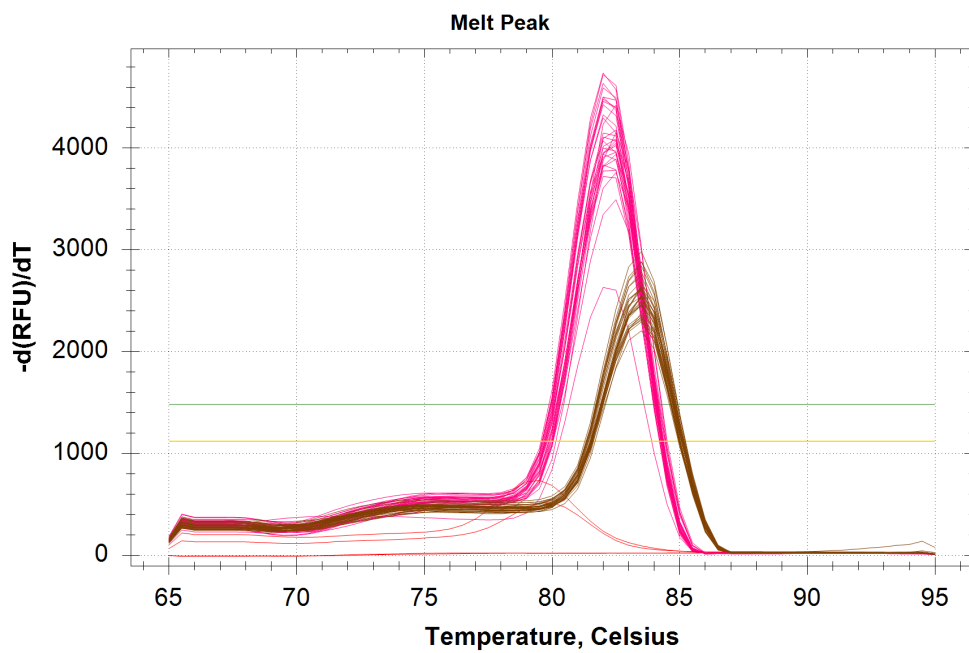
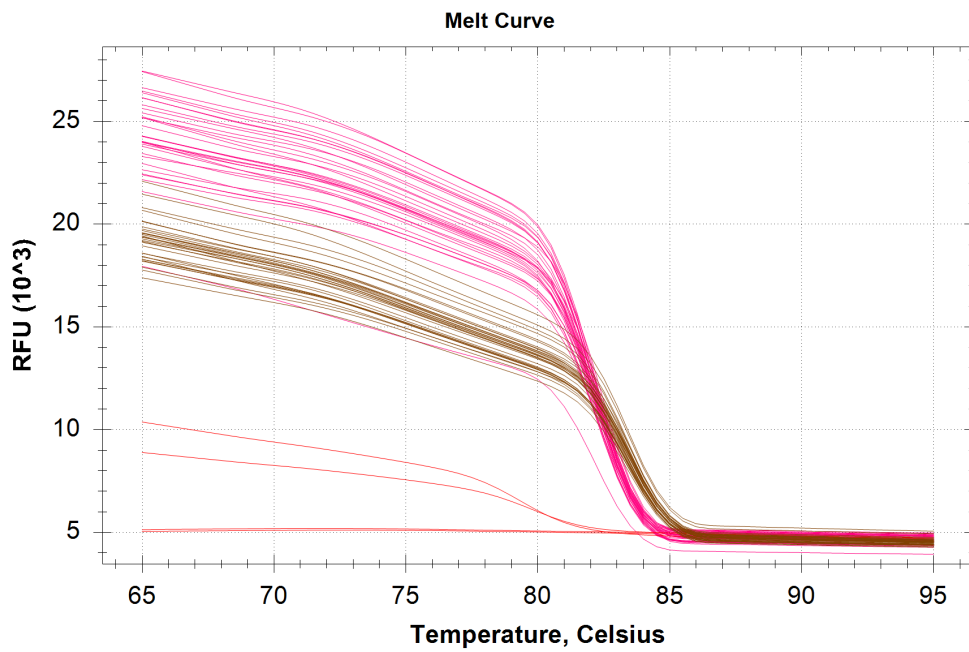
Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
GAPDH	200		N/A	N/A	N/A	25.43	0.00649	N/A
GAPDH	206		N/A	N/A	N/A	26.18	0.00959	N/A
GAPDH	220		N/A	N/A	N/A	25.95	0.10288	N/A
GAPDH	223		N/A	N/A	N/A	25.58	0.06875	N/A

## Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
GAPDH	226		N/A	N/A	N/A	25.41	0.03098	N/A
GAPDH	242		N/A	N/A	N/A	26.20	0.02658	N/A
GAPDH	243		N/A	N/A	N/A	26.96	0.00147	N/A
GAPDH	244		N/A	N/A	N/A	25.17	0.07439	N/A
GAPDH	253		N/A	N/A	N/A	25.87	0.08324	N/A
GAPDH	257		N/A	N/A	N/A	25.09	0.00467	N/A
GAPDH	282		N/A	N/A	N/A	25.54	0.01184	N/A
GAPDH	284		N/A	N/A	N/A	25.70	0.05078	N/A
GAPDH	285		N/A	N/A	N/A	26.45	0.01655	N/A
GAPDH	289		N/A	N/A	N/A	26.59	0.06517	N/A
GAPDH	296		N/A	N/A	N/A	26.58	0.03755	N/A
GAPDH	298		N/A	N/A	N/A	26.93	0.03524	N/A
HSP90	200		N/A	N/A	N/A	26.00	0.01253	N/A
HSP90	206		N/A	N/A	N/A	26.48	0.00652	N/A
HSP90	220		N/A	N/A	N/A	24.65	0.06705	N/A
HSP90	223		N/A	N/A	N/A	25.39	0.53377	N/A
HSP90	226		N/A	N/A	N/A	24.76	0.09826	N/A
HSP90	242		N/A	N/A	N/A	25.21	0.00427	N/A
HSP90	243		N/A	N/A	N/A	26.38	0.03021	N/A
HSP90	244		N/A	N/A	N/A	23.94	0.04642	N/A
HSP90	253		N/A	N/A	N/A	24.52	0.04906	N/A
HSP90	257		N/A	N/A	N/A	24.71	0.11754	N/A
HSP90	282		N/A	N/A	N/A	24.89	0.08858	N/A
HSP90	284		N/A	N/A	N/A	25.95	0.04302	N/A
HSP90	285		N/A	N/A	N/A	26.05	0.01530	N/A
HSP90	289		N/A	N/A	N/A	26.01	0.06814	N/A
HSP90	296		N/A	N/A	N/A	25.06	0.04035	N/A
HSP90	298		N/A	N/A	N/A	26.62	0.03592	N/A

## Melt Curve

Step #: 5



### Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	SYBR	GAPDH	Unkn-01	206	83.50
A02	SYBR	GAPDH	Unkn-01	206	83.50
A03	SYBR	GAPDH	Unkn-02	220	83.50
A04	SYBR	GAPDH	Unkn-02	220	83.50
A05	SYBR	GAPDH	Unkn-03	226	83.50
A06	SYBR	GAPDH	Unkn-03	226	83.50
A07	SYBR	GAPDH	Unkn-04	242	83.50
A08	SYBR	GAPDH	Unkn-04	242	83.50
A09	SYBR	GAPDH	Unkn-05	253	83.50

## Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A10	SYBR	GAPDH	Unkn-05	253	83.50
A11	SYBR	GAPDH	Unkn-06	282	83.50
A12	SYBR	GAPDH	Unkn-06	282	83.50
B01	SYBR	GAPDH	Unkn-07	284	83.50
B02	SYBR	GAPDH	Unkn-07	284	83.50
B03	SYBR	GAPDH	Unkn-08	289	83.50
B04	SYBR	GAPDH	Unkn-08	289	83.50
B05	SYBR	GAPDH	Unkn-09	296	83.50
B06	SYBR	GAPDH	Unkn-09	296	83.50
B07	SYBR	GAPDH	Unkn-10	298	83.50
B08	SYBR	GAPDH	Unkn-10	298	83.50
B09	SYBR	GAPDH	Unkn-11	200	83.50
B10	SYBR	GAPDH	Unkn-11	200	83.50
B11	SYBR	GAPDH	Unkn-12	223	83.50
B12	SYBR	GAPDH	Unkn-12	223	83.50
C01	SYBR	GAPDH	Unkn-13	243	83.50
C02	SYBR	GAPDH	Unkn-13	243	83.50
C03	SYBR	GAPDH	Unkn-14	244	83.50
C04	SYBR	GAPDH	Unkn-14	244	83.50
C05	SYBR	GAPDH	Unkn-15	257	83.50
C06	SYBR	GAPDH	Unkn-15	257	83.50
C07	SYBR	GAPDH	Unkn-16	285	83.50
C08	SYBR	GAPDH	Unkn-16	285	83.50
C09	SYBR	GAPDH	NTC-01		None
C10	SYBR	GAPDH	NTC-01		None
D01	SYBR	HSP90	Unkn-17	206	82.50
D02	SYBR	HSP90	Unkn-17	206	82.00
D03	SYBR	HSP90	Unkn-18	220	82.50
D04	SYBR	HSP90	Unkn-18	220	82.50
D05	SYBR	HSP90	Unkn-19	226	82.50
D06	SYBR	HSP90	Unkn-19	226	82.50
D07	SYBR	HSP90	Unkn-20	242	82.00
D08	SYBR	HSP90	Unkn-20	242	82.00
D09	SYBR	HSP90	Unkn-21	253	82.00
D10	SYBR	HSP90	Unkn-21	253	82.00
D11	SYBR	HSP90	Unkn-22	282	82.50
D12	SYBR	HSP90	Unkn-22	282	82.50
E01	SYBR	HSP90	Unkn-23	284	82.00
E02	SYBR	HSP90	Unkn-23	284	82.00
E03	SYBR	HSP90	Unkn-24	289	82.00
E04	SYBR	HSP90	Unkn-24	289	82.00
E05	SYBR	HSP90	Unkn-25	296	82.00
E06	SYBR	HSP90	Unkn-25	296	82.00
E07	SYBR	HSP90	Unkn-26	298	82.00
E08	SYBR	HSP90	Unkn-26	298	82.00
E09	SYBR	HSP90	Unkn-27	200	82.00
E10	SYBR	HSP90	Unkn-27	200	82.00
E11	SYBR	HSP90	Unkn-28	223	82.00
E12	SYBR	HSP90	Unkn-28	223	82.00
F01	SYBR	HSP90	Unkn-29	243	82.00

## Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
F02	SYBR	HSP90	Unkn-29	243	82.00
F03	SYBR	HSP90	Unkn-30	244	82.50
F04	SYBR	HSP90	Unkn-30	244	82.50
F05	SYBR	HSP90	Unkn-31	257	82.50
F06	SYBR	HSP90	Unkn-31	257	82.50
F07	SYBR	HSP90	Unkn-32	285	82.50
F08	SYBR	HSP90	Unkn-32	285	82.50
F09	SYBR	HSP90	NTC-02		None
F10	SYBR	HSP90	NTC-02		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 <sup>2</sup> less than	0.980	True			
Replicate group Cq Std Dev greater than	0.20	True	GAPDH:C9, C10. HSP90:E11, E12.	False	