



sam_2023-07-19 11-53-35_Connect.pcrd

07/20/2023 07:39

Report Information

User: BioRad/sam

Data File Name: sam_2023-07-19 11-53-35_Connect.pcrd

Data File Path: C:\Users\Samb\Downloads\20230719-qPCR

Well Group Name: All Wells

Report Differs from Last Save: No

Run Setup

Run Information

Run Date: 07/19/2023 11:53

Run User: sam

Run Type: User-defined

Plate File: BW 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
A	Unk Cg_18s(140 8/9) NTC1_cteni dia	Unk Cg_18s(140 8/9) NTC2_cteni dia	Unk Cg_18s(140 8/9) NTH1_cteni dia	Unk Cg_18s(140 8/9) NTH2_cteni dia	Unk Cg_18s(140 8/9) NTHM1_cte nidia	Unk Cg_18s(140 8/9) NTHM2_cte nidia	Unk Cg_18s(140 8/9) NTM1_cteni dia	Unk Cg_18s(140 8/9) NTM2_cten dia	Unk Cg_18s(140 8/9) TC1_ctenidi a	Unk Cg_18s(140 8/9) TC2_ctenidi a	Unk Cg_18s(140 8/9) TH1_ctenidi a	Unk Cg_18s(140 8/9) TH2_ctenidi a
B	Unk Cg_18s(140 8/9) THM1_cteni dia	Unk Cg_18s(140 8/9) THM2_cteni dia	Unk Cg_18s(140 8/9) TM1_ctendi a	Unk Cg_18s(140 8/9) TM2_ctenidi a	NTC-1 Cg_18s(140 8/9)	NTC-1 Cg_18s(140 8/9)	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Std FAM	*Std FAM
C	Unk Cg_ATPsyn thase(1385/ 6) NTC1_cteni dia	Unk Cg_ATPsyn thase(1385/ 6) NTC2_cteni dia	Unk Cg_ATPsyn thase(1385/ 6) NTH1_cteni dia	Unk Cg_ATPsyn thase(1385/ 6) NTH2_cteni dia	Unk Cg_ATPsyn thase(1385/ 6) NTHM1_cte nidia	Unk Cg_ATPsyn thase(1385/ 6) NTHM2_cte nidia	Unk Cg_ATPsyn thase(1385/ 6) NTM1_cteni dia	Unk Cg_ATPsyn thase(1385/ 6) NTM2_cten dia	Unk Cg_ATPsyn thase(1385/ 6) TC1_ctenidi a	Unk Cg_ATPsyn thase(1385/ 6) TC2_ctenidi a	Unk Cg_ATPsyn thase(1385/ 6) TH1_ctenidi a	Unk Cg_ATPsyn thase(1385/ 6) TH2_ctenidi a

Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
D	Unk Cg_ATPsyn thase(1385/ 6) THM1_cteni dia	Unk Cg_ATPsyn thase(1385/ 6) THM2_cteni dia	Unk Cg_ATPsyn thase(1385/ 6) TM1_ctendi a	Unk Cg_ATPsyn thase(1385/ 6) TM2_ctenidi a	NTC-2 Cg_ATPsyn thase(1385/ 6)	NTC-2 Cg_ATPsyn thase(1385/ 6)	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Std FAM	*Std FAM
E	Unk Cg_citrates ynthase(13 83/4) NTC1_cteni dia	Unk Cg_citrates ynthase(13 83/4) NTC2_cteni dia	Unk Cg_citrates ynthase(13 83/4) NTH1_cteni dia	Unk Cg_citrates ynthase(13 83/4) NTH2_cteni dia	Unk Cg_citrates ynthase(13 83/4) NTHM1_cte nidia	Unk Cg_citrates ynthase(13 83/4) NTHM2_cte nidia	Unk Cg_citrates ynthase(13 83/4) NTM1_cteni dia	Unk Cg_citrates ynthase(13 83/4) NTM2_cten dia	Unk Cg_citrates ynthase(13 83/4) TC1_ctenidi a	Unk Cg_citrates ynthase(13 83/4) TC2_ctenidi a	Unk Cg_citrates ynthase(13 83/4) TH1_ctenidi a	Unk Cg_citrates ynthase(13 83/4) TH2_ctenidi a
F	Unk Cg_citrates ynthase(13 83/4) THM1_cteni dia	Unk Cg_citrates ynthase(13 83/4) THM2_cteni dia	Unk Cg_citrates ynthase(13 83/4) TM1_ctendi a	Unk Cg_citrates ynthase(13 83/4) TM2_ctenidi a	NTC-3 FAM	NTC-3 FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*Std FAM	*Std FAM
G	Unk Cg_GAPDH (1172/3) NTC1_cteni dia	Unk Cg_GAPDH (1172/3) NTC2_cteni dia	Unk Cg_GAPDH (1172/3) NTH1_cteni dia	Unk Cg_GAPDH (1172/3) NTH2_cteni dia	Unk Cg_GAPDH (1172/3) NTHM1_cte nidia	Unk Cg_GAPDH (1172/3) NTHM2_cte nidia	Unk Cg_GAPDH (1172/3) NTM1_cteni dia	Unk Cg_GAPDH (1172/3) NTM2_cten dia	Unk Cg_GAPDH (1172/3) TC1_ctenidi a	Unk Cg_GAPDH (1172/3) TC2_ctenidi a	Pos Cg_GAPDH (1172/3) TH1_ctenidi a	Pos Cg_GAPDH (1172/3) TH2_ctenidi a
H	Unk Cg_GAPDH (1172/3) THM1_cteni dia	Unk Cg_GAPDH (1172/3) THM2_cteni dia	Unk Cg_GAPDH (1172/3) TM1_ctendi a	Unk Cg_GAPDH (1172/3) TM2_ctenidi a	NTC-4 Cg_GAPDH (1172/3)	NTC-4 Cg_GAPDH (1172/3)	*Unk FAM	*Unk FAM	*Unk FAM	*Unk FAM	*NTC FAM	*NTC FAM

Quantification

Step #: 3

Analysis Mode: Target

Cq Determination: Single Threshold

Baseline Method:

Cg_citratesynthase(1383/4): Auto Calculated

FAM: Auto Calculated

Cg_ATPsynthase(1385/6): Auto Calculated

Cg_18s(1408/9): Auto Calculated

Cg_GAPDH(1172/3): Auto Calculated

Threshold Setting:

Cg_citratesynthase(1383/4): 2736.34, Auto Calculated

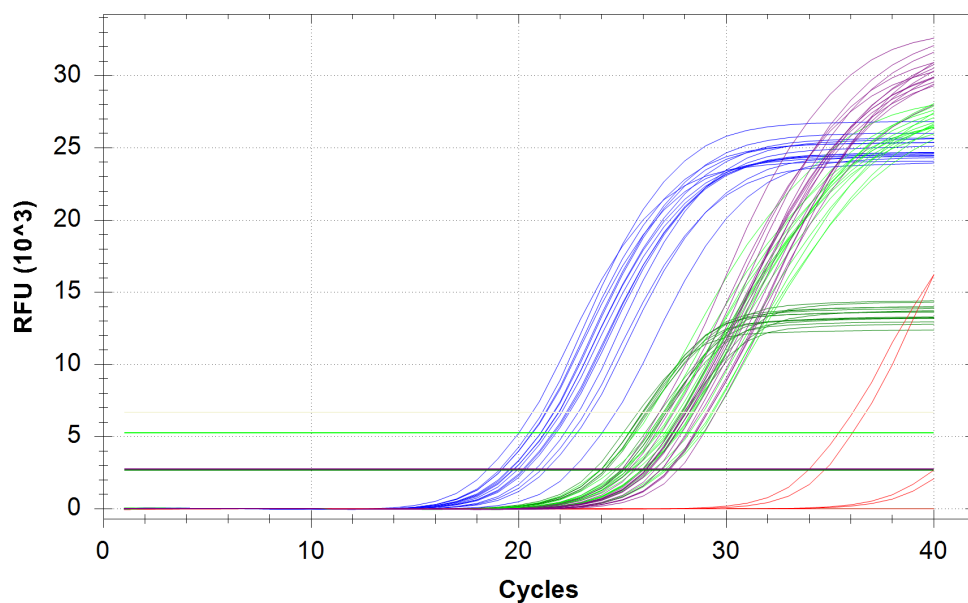
FAM: None, Auto Calculated

Cg_ATPsynthase(1385/6): 5265.95, Auto Calculated

Cg_18s(1408/9): 6670.92, Auto Calculated

Cg_GAPDH(1172/3): 2677.86, Auto Calculated

Amplification



Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	FAM	Cg_18s(1408/9)	Unkn	NTC1_ctenidia	23.21	23.21	0.000
A02	FAM	Cg_18s(1408/9)	Unkn	NTC2_ctenidia	20.65	20.65	0.000
A03	FAM	Cg_18s(1408/9)	Unkn	NTH1_ctenidia	21.29	21.29	0.000
A04	FAM	Cg_18s(1408/9)	Unkn	NTH2_ctenidia	21.33	21.33	0.000
A05	FAM	Cg_18s(1408/9)	Unkn	NTHM1_ctenidia	21.93	21.93	0.000
A06	FAM	Cg_18s(1408/9)	Unkn	NTHM2_ctenidia	21.67	21.67	0.000
A07	FAM	Cg_18s(1408/9)	Unkn	NTM1_ctenidia	22.86	22.86	0.000
A08	FAM	Cg_18s(1408/9)	Unkn	NTM2_ctendia	21.14	21.14	0.000
A09	FAM	Cg_18s(1408/9)	Unkn	TC1_ctenidia	21.70	21.70	0.000
A10	FAM	Cg_18s(1408/9)	Unkn	TC2_ctendia	21.91	21.91	0.000
A11	FAM	Cg_18s(1408/9)	Unkn	TH1_ctenidia	23.46	23.46	0.000
A12	FAM	Cg_18s(1408/9)	Unkn	TH2_ctenidia	22.36	22.36	0.000
B01	FAM	Cg_18s(1408/9)	Unkn	THM1_ctenidia	24.67	24.67	0.000
B02	FAM	Cg_18s(1408/9)	Unkn	THM2_ctenidia	22.44	22.44	0.000
B03	FAM	Cg_18s(1408/9)	Unkn	TM1_ctendia	22.29	22.29	0.000
B04	FAM	Cg_18s(1408/9)	Unkn	TM2_ctenidia	22.07	22.07	0.000
B05	FAM	Cg_18s(1408/9)	NTC-1		36.71	36.41	0.436
B06	FAM	Cg_18s(1408/9)	NTC-1		36.10	36.41	0.436
C01	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTC1_ctenidia	26.69	26.69	0.000
C02	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTC2_ctenidia	27.67	27.67	0.000
C03	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTH1_ctenidia	26.77	26.77	0.000
C04	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTH2_ctenidia	27.40	27.40	0.000
C05	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTHM1_ctenidia	27.21	27.21	0.000
C06	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTHM2_ctenidia	27.22	27.22	0.000
C07	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTM1_ctenidia	26.28	26.28	0.000
C08	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTM2_ctendia	27.04	27.04	0.000
C09	FAM	Cg_ATPsynthase(1385/6)	Unkn	TC1_ctenidia	28.87	28.87	0.000
C10	FAM	Cg_ATPsynthase(1385/6)	Unkn	TC2_ctendia	28.22	28.22	0.000

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
C11	FAM	Cg_ATPsynthase(1385/6)	Unkn	TH1_ctenidia	28.72	28.72	0.000
C12	FAM	Cg_ATPsynthase(1385/6)	Unkn	TH2_ctenidia	27.78	27.78	0.000
D01	FAM	Cg_ATPsynthase(1385/6)	Unkn	THM1_ctenidia	28.61	28.61	0.000
D02	FAM	Cg_ATPsynthase(1385/6)	Unkn	THM2_ctenidia	27.71	27.71	0.000
D03	FAM	Cg_ATPsynthase(1385/6)	Unkn	TM1_ctendia	27.14	27.14	0.000
D04	FAM	Cg_ATPsynthase(1385/6)	Unkn	TM2_ctenidia	25.65	25.65	0.000
D05	FAM	Cg_ATPsynthase(1385/6)	NTC-2		N/A	0.00	0.000
D06	FAM	Cg_ATPsynthase(1385/6)	NTC-2		N/A	0.00	0.000
E01	FAM	Cg_citratesynthase(1383/4)	Unkn	NTC1_ctenidia	26.14	26.14	0.000
E02	FAM	Cg_citratesynthase(1383/4)	Unkn	NTC2_ctenidia	26.86	26.86	0.000
E03	FAM	Cg_citratesynthase(1383/4)	Unkn	NTH1_ctenidia	26.11	26.11	0.000
E04	FAM	Cg_citratesynthase(1383/4)	Unkn	NTH2_ctenidia	26.29	26.29	0.000
E05	FAM	Cg_citratesynthase(1383/4)	Unkn	NTHM1_ctenidia	25.57	25.57	0.000
E06	FAM	Cg_citratesynthase(1383/4)	Unkn	NTHM2_ctenidia	26.34	26.34	0.000
E07	FAM	Cg_citratesynthase(1383/4)	Unkn	NTM1_ctenidia	25.00	25.00	0.000
E08	FAM	Cg_citratesynthase(1383/4)	Unkn	NTM2_ctendia	26.02	26.02	0.000
E09	FAM	Cg_citratesynthase(1383/4)	Unkn	TC1_ctenidia	27.25	27.25	0.000
E10	FAM	Cg_citratesynthase(1383/4)	Unkn	TC2_ctendia	26.59	26.59	0.000
E11	FAM	Cg_citratesynthase(1383/4)	Unkn	TH1_ctenidia	27.69	27.69	0.000
E12	FAM	Cg_citratesynthase(1383/4)	Unkn	TH2_ctenidia	27.23	27.23	0.000
F01	FAM	Cg_citratesynthase(1383/4)	Unkn	THM1_ctenidia	27.31	27.31	0.000
F02	FAM	Cg_citratesynthase(1383/4)	Unkn	THM2_ctenidia	26.86	26.86	0.000
F03	FAM	Cg_citratesynthase(1383/4)	Unkn	TM1_ctendia	26.16	26.16	0.000
F04	FAM	Cg_citratesynthase(1383/4)	Unkn	TM2_ctenidia	25.33	25.33	0.000
F05	FAM		NTC-3		N/A	0.00	0.000
F06	FAM		NTC-3		N/A	0.00	0.000
G01	FAM	Cg_GAPDH(1172/3)	Unkn	NTC1_ctenidia	23.94	23.94	0.000
G02	FAM	Cg_GAPDH(1172/3)	Unkn	NTC2_ctenidia	24.68	24.68	0.000
G03	FAM	Cg_GAPDH(1172/3)	Unkn	NTH1_ctenidia	23.93	23.93	0.000
G04	FAM	Cg_GAPDH(1172/3)	Unkn	NTH2_ctenidia	25.04	25.04	0.000
G05	FAM	Cg_GAPDH(1172/3)	Unkn	NTHM1_ctenidia	24.11	24.11	0.000
G06	FAM	Cg_GAPDH(1172/3)	Unkn	NTHM2_ctenidia	24.13	24.13	0.000
G07	FAM	Cg_GAPDH(1172/3)	Unkn	NTM1_ctenidia	23.95	23.95	0.000
G08	FAM	Cg_GAPDH(1172/3)	Unkn	NTM2_ctendia	24.22	24.22	0.000
G09	FAM	Cg_GAPDH(1172/3)	Unkn	TC1_ctenidia	26.20	26.20	0.000
G10	FAM	Cg_GAPDH(1172/3)	Unkn	TC2_ctendia	25.05	25.05	0.000
G11	FAM	Cg_GAPDH(1172/3)	Pos Ctrl	TH1_ctenidia	26.13	26.13	0.000
G12	FAM	Cg_GAPDH(1172/3)	Pos Ctrl	TH2_ctenidia	25.18	25.18	0.000
H01	FAM	Cg_GAPDH(1172/3)	Unkn	THM1_ctenidia	25.90	25.90	0.000
H02	FAM	Cg_GAPDH(1172/3)	Unkn	THM2_ctenidia	24.92	24.92	0.000
H03	FAM	Cg_GAPDH(1172/3)	Unkn	TM1_ctendia	N/A	0.00	0.000
H04	FAM	Cg_GAPDH(1172/3)	Unkn	TM2_ctenidia	23.59	23.59	0.000
H05	FAM	Cg_GAPDH(1172/3)	NTC-4		N/A	0.00	0.000
H06	FAM	Cg_GAPDH(1172/3)	NTC-4		40.00	40.00	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_18s(1408/9)	Cg_18s(1408/9)	False	Yes	100.0%
Cg_ATPsynthase(1385/6)	Cg_ATPsynthase(1385/6)	False	Yes	100.0%
Cg_citratesynthase(1383/4)	Cg_citratesynthase(1383/4)	False	Yes	100.0%
Cg_GAPDH(1172/3)	Cg_GAPDH(1172/3)	False	Yes	100.0%

Sample Names

Name	Full Name	Control
NTC1_ctenidia	NTC1_ctenidia	No
NTC2_ctenidia	NTC2_ctenidia	No
NTH1_ctenidia	NTH1_ctenidia	No
NTH2_ctenidia	NTH2_ctenidia	No
NTHM1_ctenidia	NTHM1_ctenidia	No
NTHM2_ctenidia	NTHM2_ctenidia	No
NTM1_ctenidia	NTM1_ctenidia	No
NTM2_ctendia	NTM2_ctendia	No
TC1_ctenidia	TC1_ctenidia	No
TC2_ctendia	TC2_ctendia	No
TH1_ctenidia	TH1_ctenidia	No
TH2_ctenidia	TH2_ctenidia	No
THM1_ctenidia	THM1_ctenidia	No
THM2_ctenidia	THM2_ctenidia	No
TM1_ctendia	TM1_ctendia	No
TM2_ctenidia	TM2_ctenidia	No

Gene Expression - Bar Chart Data

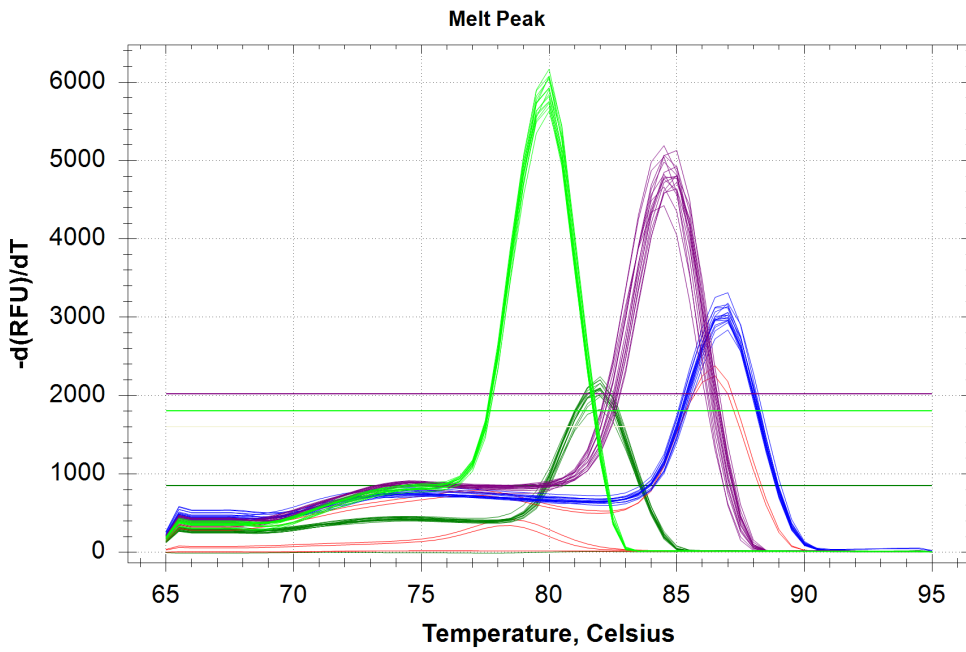
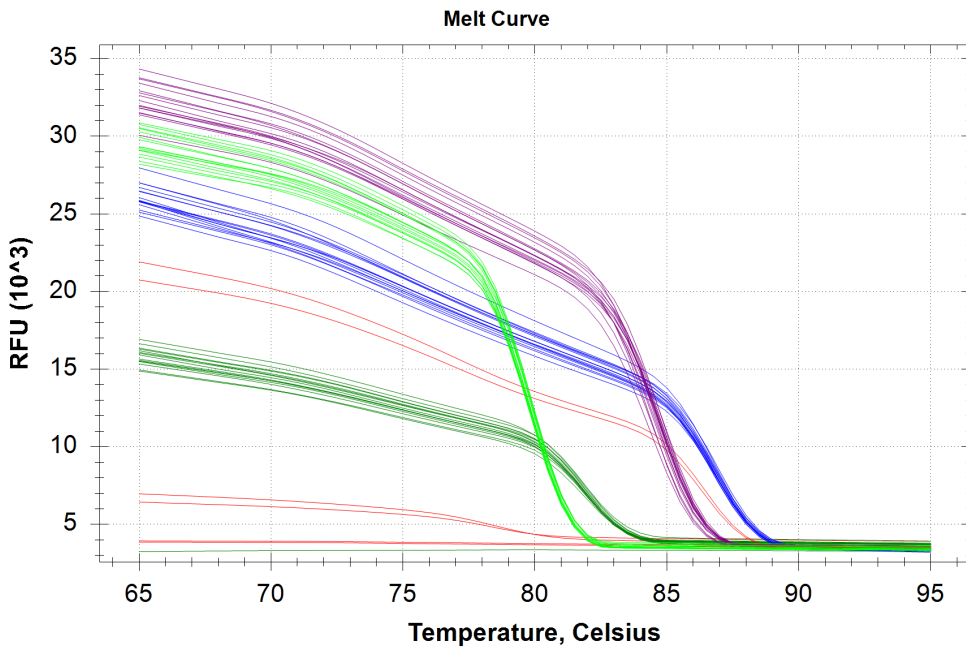
Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
Cg_18s(1408/9)	NTC1_ctenidia		N/A	N/A	N/A	23.21	0.00000	N/A
Cg_18s(1408/9)	NTC2_ctenidia		N/A	N/A	N/A	20.65	0.00000	N/A
Cg_18s(1408/9)	NTH1_ctenidia		N/A	N/A	N/A	21.29	0.00000	N/A
Cg_18s(1408/9)	NTH2_ctenidia		N/A	N/A	N/A	21.33	0.00000	N/A
Cg_18s(1408/9)	NTHM1_ctenidia		N/A	N/A	N/A	21.93	0.00000	N/A
Cg_18s(1408/9)	NTHM2_ctenidia		N/A	N/A	N/A	21.67	0.00000	N/A
Cg_18s(1408/9)	NTM1_ctenidia		N/A	N/A	N/A	22.86	0.00000	N/A
Cg_18s(1408/9)	NTM2_ctendia		N/A	N/A	N/A	21.14	0.00000	N/A
Cg_18s(1408/9)	TC1_ctenidia		N/A	N/A	N/A	21.70	0.00000	N/A
Cg_18s(1408/9)	TC2_ctendia		N/A	N/A	N/A	21.91	0.00000	N/A
Cg_18s(1408/9)	TH1_ctenidia		N/A	N/A	N/A	23.46	0.00000	N/A
Cg_18s(1408/9)	TH2_ctenidia		N/A	N/A	N/A	22.36	0.00000	N/A
Cg_18s(1408/9)	THM1_ctenidia		N/A	N/A	N/A	24.67	0.00000	N/A
Cg_18s(1408/9)	THM2_ctenidia		N/A	N/A	N/A	22.44	0.00000	N/A
Cg_18s(1408/9)	TM1_ctendia		N/A	N/A	N/A	22.29	0.00000	N/A
Cg_18s(1408/9)	TM2_ctenidia		N/A	N/A	N/A	22.07	0.00000	N/A
Cg_ATPsynthase(1385/6)	NTC1_ctenidia		N/A	N/A	N/A	26.69	0.00000	N/A
Cg_ATPsynthase(1385/6)	NTC2_ctenidia		N/A	N/A	N/A	27.67	0.00000	N/A
Cg_ATPsynthase(1385/6)	NTH1_ctenidia		N/A	N/A	N/A	26.77	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_ATPsynthase(1385/6)	NTH2_ctenidia		N/A	N/A	N/A	27.40	0.00000	N/A
Cg_ATPsynthase(1385/6)	NTHM1_ctenidia		N/A	N/A	N/A	27.21	0.00000	N/A
Cg_ATPsynthase(1385/6)	NTHM2_ctenidia		N/A	N/A	N/A	27.22	0.00000	N/A
Cg_ATPsynthase(1385/6)	NTM1_ctenidia		N/A	N/A	N/A	26.28	0.00000	N/A
Cg_ATPsynthase(1385/6)	NTM2_ctendia		N/A	N/A	N/A	27.04	0.00000	N/A
Cg_ATPsynthase(1385/6)	TC1_ctenidia		N/A	N/A	N/A	28.87	0.00000	N/A
Cg_ATPsynthase(1385/6)	TC2_ctendia		N/A	N/A	N/A	28.22	0.00000	N/A
Cg_ATPsynthase(1385/6)	TH1_ctenidia		N/A	N/A	N/A	28.72	0.00000	N/A
Cg_ATPsynthase(1385/6)	TH2_ctenidia		N/A	N/A	N/A	27.78	0.00000	N/A
Cg_ATPsynthase(1385/6)	THM1_ctenidia		N/A	N/A	N/A	28.61	0.00000	N/A
Cg_ATPsynthase(1385/6)	THM2_ctenidia		N/A	N/A	N/A	27.71	0.00000	N/A
Cg_ATPsynthase(1385/6)	TM1_ctendia		N/A	N/A	N/A	27.14	0.00000	N/A
Cg_ATPsynthase(1385/6)	TM2_ctenidia		N/A	N/A	N/A	25.65	0.00000	N/A
Cg_citratesynthase(1383/4)	NTC1_ctenidia		N/A	N/A	N/A	26.14	0.00000	N/A
Cg_citratesynthase(1383/4)	NTC2_ctenidia		N/A	N/A	N/A	26.86	0.00000	N/A
Cg_citratesynthase(1383/4)	NTH1_ctenidia		N/A	N/A	N/A	26.11	0.00000	N/A
Cg_citratesynthase(1383/4)	NTH2_ctenidia		N/A	N/A	N/A	26.29	0.00000	N/A
Cg_citratesynthase(1383/4)	NTHM1_ctenidia		N/A	N/A	N/A	25.57	0.00000	N/A
Cg_citratesynthase(1383/4)	NTHM2_ctenidia		N/A	N/A	N/A	26.34	0.00000	N/A
Cg_citratesynthase(1383/4)	NTM1_ctenidia		N/A	N/A	N/A	25.00	0.00000	N/A
Cg_citratesynthase(1383/4)	NTM2_ctendia		N/A	N/A	N/A	26.02	0.00000	N/A
Cg_citratesynthase(1383/4)	TC1_ctenidia		N/A	N/A	N/A	27.25	0.00000	N/A
Cg_citratesynthase(1383/4)	TC2_ctendia		N/A	N/A	N/A	26.59	0.00000	N/A
Cg_citratesynthase(1383/4)	TH1_ctenidia		N/A	N/A	N/A	27.69	0.00000	N/A
Cg_citratesynthase(1383/4)	TH2_ctenidia		N/A	N/A	N/A	27.23	0.00000	N/A
Cg_citratesynthase(1383/4)	THM1_ctenidia		N/A	N/A	N/A	27.31	0.00000	N/A
Cg_citratesynthase(1383/4)	THM2_ctenidia		N/A	N/A	N/A	26.86	0.00000	N/A
Cg_citratesynthase(1383/4)	TM1_ctendia		N/A	N/A	N/A	26.16	0.00000	N/A
Cg_citratesynthase(1383/4)	TM2_ctenidia		N/A	N/A	N/A	25.33	0.00000	N/A
Cg_GAPDH(1172/3)	NTC1_ctenidia		N/A	N/A	N/A	23.94	0.00000	N/A
Cg_GAPDH(1172/3)	NTC2_ctenidia		N/A	N/A	N/A	24.68	0.00000	N/A
Cg_GAPDH(1172/3)	NTH1_ctenidia		N/A	N/A	N/A	23.93	0.00000	N/A
Cg_GAPDH(1172/3)	NTH2_ctenidia		N/A	N/A	N/A	25.04	0.00000	N/A
Cg_GAPDH(1172/3)	NTHM1_ctenidia		N/A	N/A	N/A	24.11	0.00000	N/A
Cg_GAPDH(1172/3)	NTHM2_ctenidia		N/A	N/A	N/A	24.13	0.00000	N/A
Cg_GAPDH(1172/3)	NTM1_ctenidia		N/A	N/A	N/A	23.95	0.00000	N/A
Cg_GAPDH(1172/3)	NTM2_ctendia		N/A	N/A	N/A	24.22	0.00000	N/A
Cg_GAPDH(1172/3)	TC1_ctenidia		N/A	N/A	N/A	26.20	0.00000	N/A
Cg_GAPDH(1172/3)	TC2_ctendia		N/A	N/A	N/A	25.05	0.00000	N/A
Cg_GAPDH(1172/3)	TH1_ctenidia		N/A	N/A	N/A	26.13	0.00000	N/A
Cg_GAPDH(1172/3)	TH2_ctenidia		N/A	N/A	N/A	25.18	0.00000	N/A
Cg_GAPDH(1172/3)	THM1_ctenidia		N/A	N/A	N/A	25.90	0.00000	N/A
Cg_GAPDH(1172/3)	THM2_ctenidia		N/A	N/A	N/A	24.92	0.00000	N/A
Cg_GAPDH(1172/3)	TM1_ctendia		N/A	N/A	N/A	N/A	N/A	N/A
Cg_GAPDH(1172/3)	TM2_ctenidia		N/A	N/A	N/A	23.59	0.00000	N/A

Melt Curve

Step #: 5



Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	FAM	Cg_18s(1408/9)	Unkn	NTC1_ctenidia	87.00
A02	FAM	Cg_18s(1408/9)	Unkn	NTC2_ctenidia	87.00
A03	FAM	Cg_18s(1408/9)	Unkn	NTH1_ctenidia	87.00
A04	FAM	Cg_18s(1408/9)	Unkn	NTH2_ctenidia	87.00
A05	FAM	Cg_18s(1408/9)	Unkn	NTHM1_ctenidia	87.00
A06	FAM	Cg_18s(1408/9)	Unkn	NTHM2_ctenidia	87.00

Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A07	FAM	Cg_18s(1408/9)	Unkn	NTM1_ctenidia	87.00
A08	FAM	Cg_18s(1408/9)	Unkn	NTM2_ctendia	87.00
A09	FAM	Cg_18s(1408/9)	Unkn	TC1_ctenidia	87.00
A10	FAM	Cg_18s(1408/9)	Unkn	TC2_ctendia	87.00
A11	FAM	Cg_18s(1408/9)	Unkn	TH1_ctenidia	87.00
A12	FAM	Cg_18s(1408/9)	Unkn	TH2_ctenidia	87.00
B01	FAM	Cg_18s(1408/9)	Unkn	THM1_ctenidia	87.00
B02	FAM	Cg_18s(1408/9)	Unkn	THM2_ctenidia	87.00
B03	FAM	Cg_18s(1408/9)	Unkn	TM1_ctendia	87.00
B04	FAM	Cg_18s(1408/9)	Unkn	TM2_ctenidia	87.00
B05	FAM	Cg_18s(1408/9)	NTC-1		86.50
B06	FAM	Cg_18s(1408/9)	NTC-1		86.50
C01	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTC1_ctenidia	80.00
C02	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTC2_ctenidia	80.00
C03	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTH1_ctenidia	80.00
C04	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTH2_ctenidia	80.00
C05	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTHM1_ctenidia	80.00
C06	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTHM2_ctenidia	80.00
C07	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTM1_ctenidia	80.00
C08	FAM	Cg_ATPsynthase(1385/6)	Unkn	NTM2_ctendia	80.00
C09	FAM	Cg_ATPsynthase(1385/6)	Unkn	TC1_ctenidia	80.00
C10	FAM	Cg_ATPsynthase(1385/6)	Unkn	TC2_ctendia	80.00
C11	FAM	Cg_ATPsynthase(1385/6)	Unkn	TH1_ctenidia	80.00
C12	FAM	Cg_ATPsynthase(1385/6)	Unkn	TH2_ctenidia	80.00
D01	FAM	Cg_ATPsynthase(1385/6)	Unkn	THM1_ctenidia	80.00
D02	FAM	Cg_ATPsynthase(1385/6)	Unkn	THM2_ctenidia	80.00
D03	FAM	Cg_ATPsynthase(1385/6)	Unkn	TM1_ctendia	80.00
D04	FAM	Cg_ATPsynthase(1385/6)	Unkn	TM2_ctenidia	80.00
D05	FAM	Cg_ATPsynthase(1385/6)	NTC-2		None
D06	FAM	Cg_ATPsynthase(1385/6)	NTC-2		None
E01	FAM	Cg_citratesynthase(1383/4)	Unkn	NTC1_ctenidia	85.00
E02	FAM	Cg_citratesynthase(1383/4)	Unkn	NTC2_ctenidia	85.00
E03	FAM	Cg_citratesynthase(1383/4)	Unkn	NTH1_ctenidia	84.50
E04	FAM	Cg_citratesynthase(1383/4)	Unkn	NTH2_ctenidia	84.50
E05	FAM	Cg_citratesynthase(1383/4)	Unkn	NTHM1_ctenidia	85.00
E06	FAM	Cg_citratesynthase(1383/4)	Unkn	NTHM2_ctenidia	84.50
E07	FAM	Cg_citratesynthase(1383/4)	Unkn	NTM1_ctenidia	84.50
E08	FAM	Cg_citratesynthase(1383/4)	Unkn	NTM2_ctendia	85.00
E09	FAM	Cg_citratesynthase(1383/4)	Unkn	TC1_ctenidia	85.00
E10	FAM	Cg_citratesynthase(1383/4)	Unkn	TC2_ctendia	84.50
E11	FAM	Cg_citratesynthase(1383/4)	Unkn	TH1_ctenidia	84.50
E12	FAM	Cg_citratesynthase(1383/4)	Unkn	TH2_ctenidia	85.00
F01	FAM	Cg_citratesynthase(1383/4)	Unkn	THM1_ctenidia	84.50
F02	FAM	Cg_citratesynthase(1383/4)	Unkn	THM2_ctenidia	84.50
F03	FAM	Cg_citratesynthase(1383/4)	Unkn	TM1_ctendia	84.50
F04	FAM	Cg_citratesynthase(1383/4)	Unkn	TM2_ctenidia	85.00
G01	FAM	Cg_GAPDH(1172/3)	Unkn	NTC1_ctenidia	82.00
G02	FAM	Cg_GAPDH(1172/3)	Unkn	NTC2_ctenidia	82.00
G03	FAM	Cg_GAPDH(1172/3)	Unkn	NTH1_ctenidia	82.00
G04	FAM	Cg_GAPDH(1172/3)	Unkn	NTH2_ctenidia	82.00

Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
G05	FAM	Cg_GAPDH(1172/3)	Unkn	NTHM1_ctenidia	82.00
G06	FAM	Cg_GAPDH(1172/3)	Unkn	NTHM2_ctenidia	82.00
G07	FAM	Cg_GAPDH(1172/3)	Unkn	NTM1_ctenidia	82.00
G08	FAM	Cg_GAPDH(1172/3)	Unkn	NTM2_ctendia	82.00
G09	FAM	Cg_GAPDH(1172/3)	Unkn	TC1_ctenidia	82.00
G10	FAM	Cg_GAPDH(1172/3)	Unkn	TC2_ctendia	82.00
G11	FAM	Cg_GAPDH(1172/3)	Pos Ctrl	TH1_ctenidia	82.00
G12	FAM	Cg_GAPDH(1172/3)	Pos Ctrl	TH2_ctenidia	82.00
H01	FAM	Cg_GAPDH(1172/3)	Unkn	THM1_ctenidia	82.00
H02	FAM	Cg_GAPDH(1172/3)	Unkn	THM2_ctenidia	82.00
H03	FAM	Cg_GAPDH(1172/3)	Unkn	TM1_ctendia	None
H04	FAM	Cg_GAPDH(1172/3)	Unkn	TM2_ctenidia	82.00
H05	FAM	Cg_GAPDH(1172/3)	NTC-4		None
H06	FAM	Cg_GAPDH(1172/3)	NTC-4		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	Cg_18s(1408/9):B5, B6.	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	Cg_GAPDH(1172/3):H3.	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	Cg_18s(1408/9), Cg_ATPsynthase(1385/6), Cg_citratesynthase(1383/4), Cg_GAPDH(1172/3)		
Replicate group Cq Std Dev greater than	0.20	True	Cg_18s(1408/9):B5, B6.	False	