sam_2020-08-06 05-44-24_BR006896.pcrd

08/06/2020 07:11

Report Information

User: BioRad/sam
Data File Name: sam_2020-08-06 05-44-24_BR006896.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: 08/06/2020 05:44
Run User: sam
Run Type: User-defined
Plate File: 20200806_pgen_APLP_TIF3s8-1.pltd
ID:
Notes:
Sample Volume: 20
Temperature Control Mode: Calculated
Lid Temperature: 105
Base Serial Number: BR006896
Optical Head Serial Number: 788BR07000

Protocol

1: 98.0°C for 2:00
2: 98.0°C for 0:02
3: 60.0°C for 0:05
Plate Read
4: GOTO 2, 39 more times
5: Melt Curve 70.0°C to 85.0°C: Increment 0.2°C 0:10
Plate Read

Plate Display

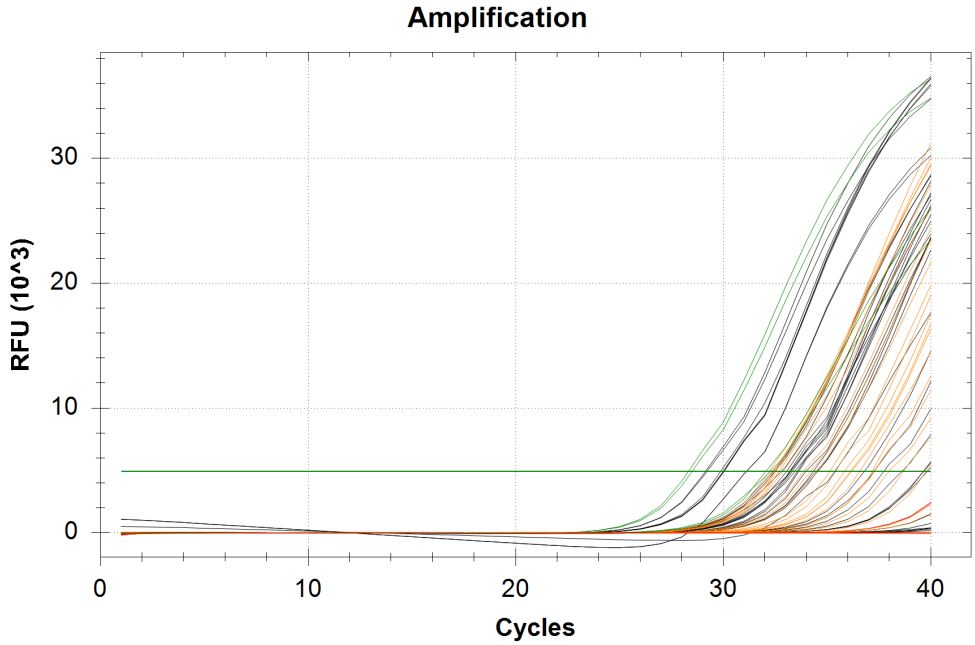
	1	2	3	4	5	6	7	8	9	10	11	12
A	Unk-1 APLP 1	Unk-1 APLP 1	Unk-2 APLP 2	Unk-2 APLP 2	Unk-3 APLP 19	Unk-3 APLP 19	Unk-4 APLP 21	Unk-4 APLP 21	Unk-5 APLP 27	Unk-5 APLP 27	Unk-6 APLP 28	Unk-6 APLP 28
B	Unk-7 APLP 31	Unk-7 APLP 31	Unk-8 APLP 37	Unk-8 APLP 37	Unk-9 APLP 39	Unk-9 APLP 39	Unk-10 APLP 43	Unk-10 APLP 43	Unk-11 APLP 54	Unk-11 APLP 54	Unk-12 APLP 55(2)	Unk-12 APLP 55(2)
C	Unk-13 APLP 57	Unk-13 APLP 57	Unk-14 APLP 59	Unk-14 APLP 59	Unk-15 APLP 61	Unk-15 APLP 61	Unk-16 APLP 11/15 chew	Unk-16 APLP 11/15 chew	Unk-17 APLP 11/15 star	Unk-17 APLP 11/15 star	Unk-18 APLP 11/21 chew	Unk-18 APLP 11/21 chew
D	Unk-19 APLP 11/21 star	Unk-19 APLP 11/21 star	Pos-1 APLP cDNA pool	Pos-1 APLP cDNA pool	NTC-1 APLP	NTC-1 APLP						
E	Unk-20 TIF3s8_F/R_1 1	Unk-20 TIF3s8_F/R_1 1	Unk-21 TIF3s8_F/R_1 2	Unk-21 TIF3s8_F/R_1 2	Unk-22 TIF3s8_F/R_1 19	Unk-22 TIF3s8_F/R_1 19	Unk-23 TIF3s8_F/R_1 21	Unk-23 TIF3s8_F/R_1 21	Unk-24 TIF3s8_F/R_1 27	Unk-24 TIF3s8_F/R_1 27	Unk-25 TIF3s8_F/R_1 28	Unk-25 TIF3s8_F/R_1 28

Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
F	Unk-26 TIF3s8_F/R_1 31	Unk-26 TIF3s8_F/R_1 31	Unk-27 TIF3s8_F/R_1 37	Unk-27 TIF3s8_F/R_1 37	Unk-28 TIF3s8_F/R_1 39	Unk-28 TIF3s8_F/R_1 39	Unk-29 TIF3s8_F/R_1 43	Unk-29 TIF3s8_F/R_1 43	Unk-30 TIF3s8_F/R_1 54	Unk-30 TIF3s8_F/R_1 54	Unk-31 TIF3s8_F/R_1 55(2)	Unk-31 TIF3s8_F/R_1 55(2)
G	Unk-32 TIF3s8_F/R_1 57	Unk-32 TIF3s8_F/R_1 57	Unk-33 TIF3s8_F/R_1 59	Unk-33 TIF3s8_F/R_1 59	Unk-34 TIF3s8_F/R_1 61	Unk-34 TIF3s8_F/R_1 61	Unk-35 TIF3s8_F/R_1 11/15 chew	Unk-35 TIF3s8_F/R_1 11/15 chew	Unk-36 TIF3s8_F/R_1 11/15 star	Unk-36 TIF3s8_F/R_1 11/15 star	Unk-37 TIF3s8_F/R_1 11/21 chew	Unk-37 TIF3s8_F/R_1 11/21 chew
H	Unk-38 TIF3s8_F/R_1 11/21 star	Unk-38 TIF3s8_F/R_1 11/21 star	Pos-2 TIF3s8_F/R_1 cDNA pool	Pos-2 TIF3s8_F/R_1 cDNA pool	NTC-2 TIF3s8_F/R_1	NTC-2 TIF3s8_F/R_1						

Quantification

Step #: 3
Analysis Mode: Fluorophore
Cq Determination: Single Threshold
Baseline Method:
SYBR: Auto Calculated
Threshold Setting:
SYBR: 4941.14, Auto Calculated



Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	SYBR	APLP	Unkn-01	1	34.49	34.93	0.628
A02	SYBR	APLP	Unkn-01	1	35.38	34.93	0.628
A03	SYBR	APLP	Unkn-02	2	33.32	33.29	0.052
A04	SYBR	APLP	Unkn-02	2	33.25	33.29	0.052
A05	SYBR	APLP	Unkn-03	19	38.61	39.13	0.744
A06	SYBR	APLP	Unkn-03	19	39.66	39.13	0.744
A07	SYBR	APLP	Unkn-04	21	39.84	39.84	0.000
A08	SYBR	APLP	Unkn-04	21	N/A	0.00	0.000

Quantification Data

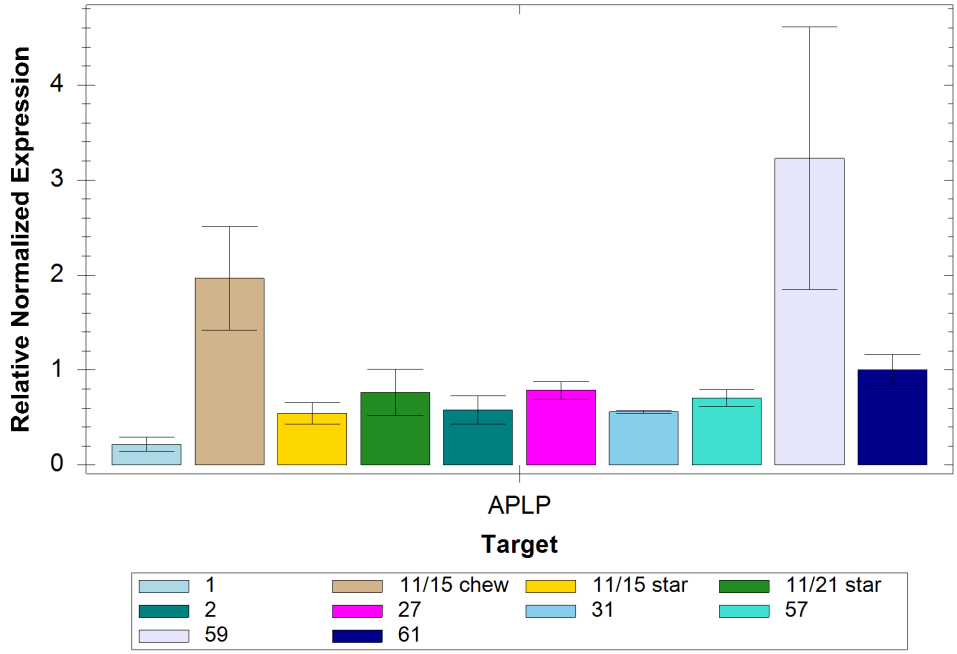
Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A09	SYBR	APLP	Unkn-05	27	31.13	31.12	0.003
A10	SYBR	APLP	Unkn-05	27	31.12	31.12	0.003
A11	SYBR	APLP	Unkn-06	28	N/A	0.00	0.000
A12	SYBR	APLP	Unkn-06	28	N/A	0.00	0.000
B01	SYBR	APLP	Unkn-07	31	30.05	30.03	0.027
B02	SYBR	APLP	Unkn-07	31	30.01	30.03	0.027
B03	SYBR	APLP	Unkn-08	37	N/A	0.00	0.000
B04	SYBR	APLP	Unkn-08	37	37.74	37.74	0.000
B05	SYBR	APLP	Unkn-09	39	N/A	0.00	0.000
B06	SYBR	APLP	Unkn-09	39	N/A	0.00	0.000
B07	SYBR	APLP	Unkn-10	43	33.06	33.25	0.279
B08	SYBR	APLP	Unkn-10	43	33.45	33.25	0.279
B09	SYBR	APLP	Unkn-11	54	N/A	0.00	0.000
B10	SYBR	APLP	Unkn-11	54	39.64	39.64	0.000
B11	SYBR	APLP	Unkn-12	55(2)	32.80	33.02	0.308
B12	SYBR	APLP	Unkn-12	55(2)	33.23	33.02	0.308
C01	SYBR	APLP	Unkn-13	57	30.01	29.94	0.093
C02	SYBR	APLP	Unkn-13	57	29.88	29.94	0.093
C03	SYBR	APLP	Unkn-14	59	34.56	34.27	0.406
C04	SYBR	APLP	Unkn-14	59	33.98	34.27	0.406
C05	SYBR	APLP	Unkn-15	61	29.22	29.19	0.052
C06	SYBR	APLP	Unkn-15	61	29.15	29.19	0.052
C07	SYBR	APLP	Unkn-16	11/15 chew	33.20	33.39	0.261
C08	SYBR	APLP	Unkn-16	11/15 chew	33.57	33.39	0.261
C09	SYBR	APLP	Unkn-17	11/15 star	32.39	32.44	0.068
C10	SYBR	APLP	Unkn-17	11/15 star	32.49	32.44	0.068
C11	SYBR	APLP	Unkn-18	11/21 chew	36.80	37.03	0.329
C12	SYBR	APLP	Unkn-18	11/21 chew	37.26	37.03	0.329
D01	SYBR	APLP	Unkn-19	11/21 star	33.64	33.99	0.496
D02	SYBR	APLP	Unkn-19	11/21 star	34.34	33.99	0.496
D03	SYBR	APLP	Pos Ctrl-01	cDNA pool	28.33	28.41	0.121
D04	SYBR	APLP	Pos Ctrl-01	cDNA pool	28.50	28.41	0.121
D05	SYBR	APLP	NTC-01		N/A	0.00	0.000
D06	SYBR	APLP	NTC-01		N/A	0.00	0.000
E01	SYBR	TIF3s8_F/R_1	Unkn-20	1	36.18	36.01	0.238
E02	SYBR	TIF3s8_F/R_1	Unkn-20	1	35.84	36.01	0.238
E03	SYBR	TIF3s8_F/R_1	Unkn-21	2	35.41	35.78	0.520
E04	SYBR	TIF3s8_F/R_1	Unkn-21	2	36.14	35.78	0.520
E05	SYBR	TIF3s8_F/R_1	Unkn-22	19	N/A	0.00	0.000
E06	SYBR	TIF3s8_F/R_1	Unkn-22	19	N/A	0.00	0.000
E07	SYBR	TIF3s8_F/R_1	Unkn-23	21	N/A	0.00	0.000
E08	SYBR	TIF3s8_F/R_1	Unkn-23	21	N/A	0.00	0.000

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
E09	SYBR	TIF3s8_F/R_1	Unkn-24	27	34.21	34.05	0.237
E10	SYBR	TIF3s8_F/R_1	Unkn-24	27	33.88	34.05	0.237
E11	SYBR	TIF3s8_F/R_1	Unkn-25	28	N/A	0.00	0.000
E12	SYBR	TIF3s8_F/R_1	Unkn-25	28	N/A	0.00	0.000
F01	SYBR	TIF3s8_F/R_1	Unkn-26	31	32.43	32.46	0.045
F02	SYBR	TIF3s8_F/R_1	Unkn-26	31	32.49	32.46	0.045
F03	SYBR	TIF3s8_F/R_1	Unkn-27	37	N/A	0.00	0.000
F04	SYBR	TIF3s8_F/R_1	Unkn-27	37	N/A	0.00	0.000
F05	SYBR	TIF3s8_F/R_1	Unkn-28	39	N/A	0.00	0.000
F06	SYBR	TIF3s8_F/R_1	Unkn-28	39	N/A	0.00	0.000
F07	SYBR	TIF3s8_F/R_1	Unkn-29	43	N/A	0.00	0.000
F08	SYBR	TIF3s8_F/R_1	Unkn-29	43	N/A	0.00	0.000
F09	SYBR	TIF3s8_F/R_1	Unkn-30	54	N/A	0.00	0.000
F10	SYBR	TIF3s8_F/R_1	Unkn-30	54	N/A	0.00	0.000
F11	SYBR	TIF3s8_F/R_1	Unkn-31	55(2)	N/A	0.00	0.000
F12	SYBR	TIF3s8_F/R_1	Unkn-31	55(2)	N/A	0.00	0.000
G01	SYBR	TIF3s8_F/R_1	Unkn-32	57	32.88	32.71	0.240
G02	SYBR	TIF3s8_F/R_1	Unkn-32	57	32.54	32.71	0.240
G03	SYBR	TIF3s8_F/R_1	Unkn-33	59	39.78	39.23	0.774
G04	SYBR	TIF3s8_F/R_1	Unkn-33	59	38.69	39.23	0.774
G05	SYBR	TIF3s8_F/R_1	Unkn-34	61	32.22	32.46	0.329
G06	SYBR	TIF3s8_F/R_1	Unkn-34	61	32.69	32.46	0.329
G07	SYBR	TIF3s8_F/R_1	Unkn-35	11/15 chew	37.99	37.63	0.501
G08	SYBR	TIF3s8_F/R_1	Unkn-35	11/15 chew	37.28	37.63	0.501
G09	SYBR	TIF3s8_F/R_1	Unkn-36	11/15 star	34.54	34.84	0.424
G10	SYBR	TIF3s8_F/R_1	Unkn-36	11/15 star	35.14	34.84	0.424
G11	SYBR	TIF3s8_F/R_1	Unkn-37	11/21 chew	N/A	0.00	0.000
G12	SYBR	TIF3s8_F/R_1	Unkn-37	11/21 chew	N/A	0.00	0.000
H01	SYBR	TIF3s8_F/R_1	Unkn-38	11/21 star	37.17	36.87	0.425
H02	SYBR	TIF3s8_F/R_1	Unkn-38	11/21 star	36.57	36.87	0.425
H03	SYBR	TIF3s8_F/R_1	Pos Ctrl-02	cDNA pool	32.27	32.16	0.152
H04	SYBR	TIF3s8_F/R_1	Pos Ctrl-02	cDNA pool	32.05	32.16	0.152
H05	SYBR	TIF3s8_F/R_1	NTC-02		N/A	0.00	0.000
H06	SYBR	TIF3s8_F/R_1	NTC-02		N/A	0.00	0.000

Bar Chart

Analysis Mode: Normalized expression (Cq)
Chart Data: Relative to zero
Scaling options: Unscaled
Chart Error: ± 1.0 SEMs



Target Names

Name	Full Name	Reference	Auto Efficiency	Efficiency
APLP	APLP	False	Yes	100.0%
TIF3s8_F/R_1	TIF3s8_F/R_1	True	Yes	100.0%

Sample Names

Name	Full Name	Control
1	1	No
11/15 chew	11/15 chew	No
11/15 star	11/15 star	No
11/21 star	11/21 star	No
2	2	No
27	27	No
31	31	No
57	57	No
59	59	No
61	61	No

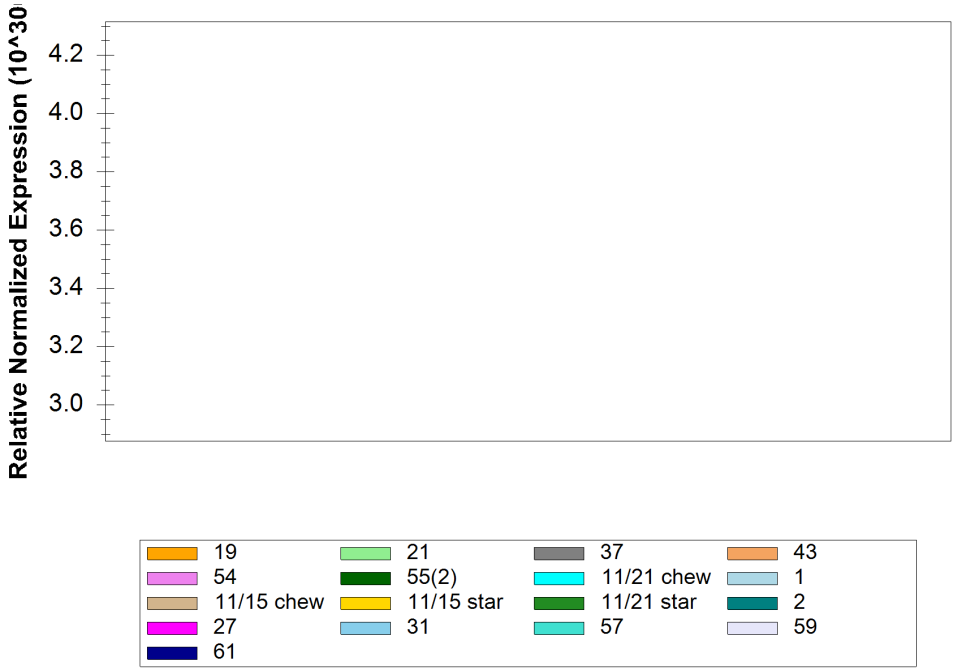
Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
APLP	1		0.21923	0.07213	0.07213	34.93	0.44386	N/A
APLP	11/15 chew		1.96496	0.54401	0.54401	33.39	0.18447	N/A
APLP	11/15 star		0.54537	0.11476	0.11476	32.44	0.04803	N/A

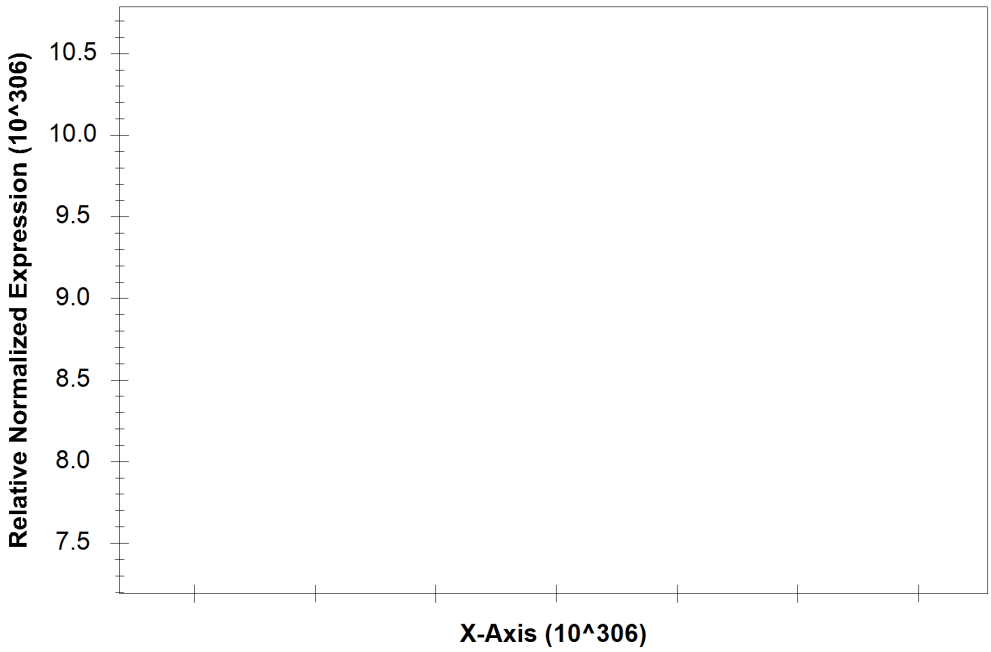
Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
APLP	11/21 chew		N/A	N/A	N/A	37.03	0.23252	N/A
APLP	11/21 star		0.76405	0.24466	0.24466	33.99	0.35104	N/A
APLP	19		N/A	N/A	N/A	39.13	0.52587	N/A
APLP	2		0.58183	0.14901	0.14901	33.29	0.03694	N/A
APLP	21		N/A	N/A	N/A	39.84	0.00000	N/A
APLP	27		0.78650	0.09156	0.09156	31.12	0.00232	N/A
APLP	28		N/A	N/A	N/A	N/A	N/A	N/A
APLP	31		0.55937	0.01431	0.01431	30.03	0.01915	N/A
APLP	37		N/A	N/A	N/A	37.74	0.00000	N/A
APLP	39		N/A	N/A	N/A	N/A	N/A	N/A
APLP	43		N/A	N/A	N/A	33.25	0.19693	N/A
APLP	54		N/A	N/A	N/A	39.64	0.00000	N/A
APLP	55(2)		N/A	N/A	N/A	33.02	0.21765	N/A
APLP	57		0.70273	0.08878	0.08878	29.94	0.06582	N/A
APLP	59		3.22879	1.38304	1.38304	34.27	0.28723	N/A
APLP	61		1.00000	0.16314	0.16314	29.19	0.03709	N/A
TIF3s8_F/R_1	1		N/A	N/A	N/A	36.01	0.16818	N/A
TIF3s8_F/R_1	11/15 chew		N/A	N/A	N/A	37.63	0.35427	N/A
TIF3s8_F/R_1	11/15 star		N/A	N/A	N/A	34.84	0.29975	N/A
TIF3s8_F/R_1	11/21 chew		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	11/21 star		N/A	N/A	N/A	36.87	0.30032	N/A
TIF3s8_F/R_1	19		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	2		N/A	N/A	N/A	35.78	0.36764	N/A
TIF3s8_F/R_1	21		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	27		N/A	N/A	N/A	34.05	0.16793	N/A
TIF3s8_F/R_1	28		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	31		N/A	N/A	N/A	32.46	0.03156	N/A
TIF3s8_F/R_1	37		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	39		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	43		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	54		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	55(2)		N/A	N/A	N/A	N/A	N/A	N/A
TIF3s8_F/R_1	57		N/A	N/A	N/A	32.71	0.16998	N/A
TIF3s8_F/R_1	59		N/A	N/A	N/A	39.23	0.54717	N/A
TIF3s8_F/R_1	61		N/A	N/A	N/A	32.46	0.23242	N/A

Box-And-Whisker Chart



Dot Plot Chart



QC Parameters

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
Negative control with a Cq less than	38	True		False	

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
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	SYBR:H3, H4.	False	
Unknown without a Cq	N/A	True	SYBR:A8, A11, A12, B3, B5, B6, B9, E5, E6, E7, E8, E11, E12, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, G11, G12.	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			
Replicate group Cq Std Dev greater than	0.20	True	SYBR:A1, A2, A5, A6, B7, B8, B11, B12, C3, C4, C7, C8, C11, C12, D1, D2, E1, E2, E3, E4, E9, E10, G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, H1, H2.	False	