

	1	2	3	4	5	6	7	8	9	10	11	12
E	Unk APLY APLY	Unk APLY APLY	Unk PXDN PXDN	Unk PXDN PXDN	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM
F	Unk OXLA OXLA	Unk OXLA OXLA	NTC FAM	NTC FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM
G	Unk IF44L IF44L	Unk IF44L IF44L	NTC FAM	NTC FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM
H	Unk CO2 CO2	Unk CO2 CO2	NTC FAM	NTC FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM	Unk FAM

Quantification

Step #: 3

Analysis Mode: Fluorophore

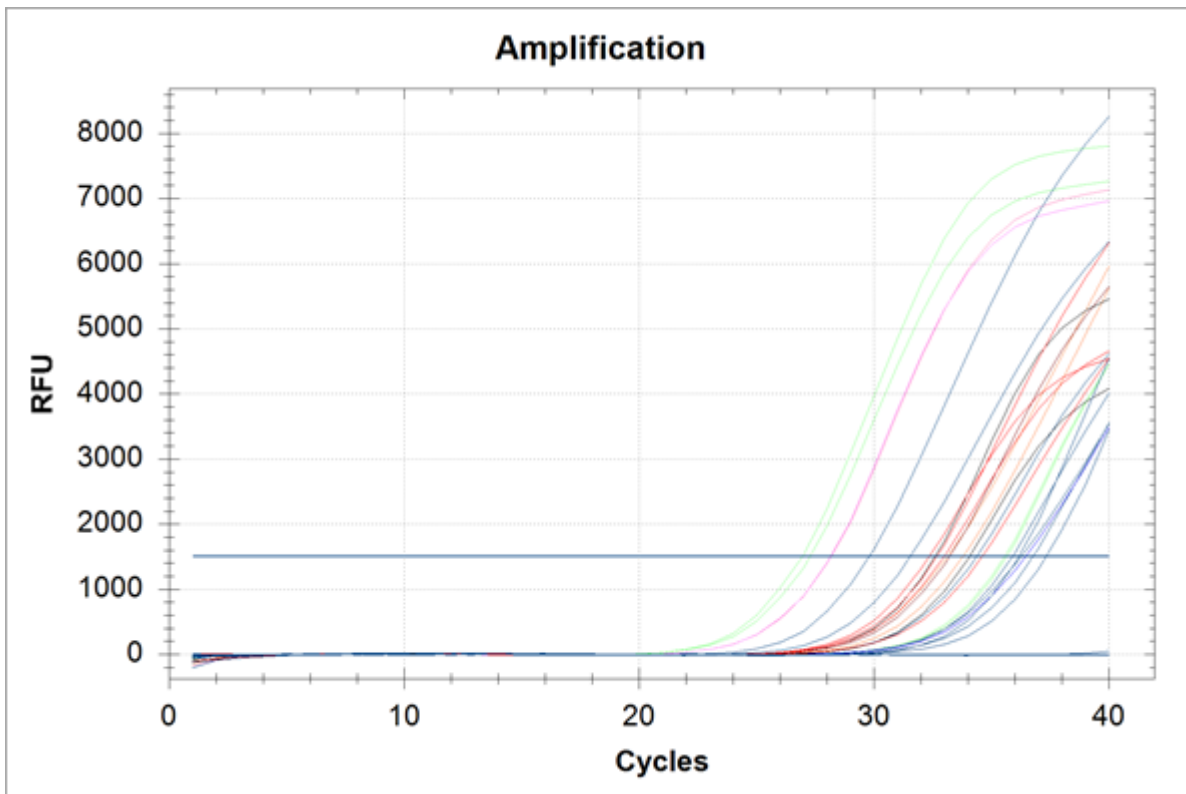
Cq Determination: Single Threshold

Baseline Method:

FAM: Auto Calculated

Threshold Setting:

FAM: 1510.49, Auto Calculated



Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	FAM	MPEG	Unkn	MPEG	33.13	33.13	0.000
A02	FAM	MPEG	Unkn	MPEG	33.79	33.79	0.000
A03	FAM	NERM	Unkn	NERM	35.55	35.55	0.000
A04	FAM	NERM	Unkn	NERM	35.65	35.65	0.000

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A05	FAM		Unkn		N/A	0.00	0.000
A06	FAM		Unkn		N/A	0.00	0.000
A07	FAM		Unkn		N/A	0.00	0.000
A08	FAM		Unkn		N/A	0.00	0.000
A09	FAM		Unkn		N/A	0.00	0.000
A10	FAM		Unkn		N/A	0.00	0.000
A11	FAM		Unkn		N/A	0.00	0.000
A12	FAM		Unkn		N/A	0.00	0.000
B01	FAM	AMPN	Unkn	AMPN	N/A	0.00	0.000
B02	FAM	AMPN	Unkn	AMPN	N/A	0.00	0.000
B03	FAM	DEF1	Unkn	DEF1	26.96	26.96	0.000
B04	FAM	DEF1	Unkn	DEF1	27.28	27.28	0.000
B05	FAM		Unkn		N/A	0.00	0.000
B06	FAM		Unkn		N/A	0.00	0.000
B07	FAM		Unkn		N/A	0.00	0.000
B08	FAM		Unkn		N/A	0.00	0.000
B09	FAM		Unkn		N/A	0.00	0.000
B10	FAM		Unkn		N/A	0.00	0.000
B11	FAM		Unkn		N/A	0.00	0.000
B12	FAM		Unkn		N/A	0.00	0.000
C01	FAM	LEC2	Unkn	LEC2	28.18	28.18	0.000
C02	FAM	LEC2	Unkn	LEC2	28.15	28.15	0.000
C03	FAM	SAMH1	Unkn	SAMH1	35.90	35.90	0.000
C04	FAM	SAMH1	Unkn	SAMH1	36.77	36.77	0.000
C05	FAM		Unkn		N/A	0.00	0.000
C06	FAM		Unkn		N/A	0.00	0.000
C07	FAM		Unkn		N/A	0.00	0.000
C08	FAM		Unkn		N/A	0.00	0.000
C09	FAM		Unkn		N/A	0.00	0.000
C10	FAM		Unkn		N/A	0.00	0.000
C11	FAM		Unkn		N/A	0.00	0.000
C12	FAM		Unkn		N/A	0.00	0.000
D01	FAM	NEP	Unkn	NEP	34.37	34.37	0.000
D02	FAM	NEP	Unkn	NEP	33.22	33.22	0.000
D03	FAM	FCN-1	Unkn	FCN-1	36.27	36.27	0.000
D04	FAM	FCN-1	Unkn	FCN-1	36.45	36.45	0.000
D05	FAM		Unkn		N/A	0.00	0.000
D06	FAM		Unkn		N/A	0.00	0.000
D07	FAM		Unkn		N/A	0.00	0.000
D08	FAM		Unkn		N/A	0.00	0.000
D09	FAM		Unkn		N/A	0.00	0.000
D10	FAM		Unkn		N/A	0.00	0.000
D11	FAM		Unkn		N/A	0.00	0.000
D12	FAM		Unkn		N/A	0.00	0.000
E01	FAM	APLY	Unkn	APLY	34.07	34.07	0.000
E02	FAM	APLY	Unkn	APLY	32.60	32.60	0.000
E03	FAM	PXDN	Unkn	PXDN	32.68	32.68	0.000
E04	FAM	PXDN	Unkn	PXDN	34.60	34.60	0.000
E05	FAM		Unkn		N/A	0.00	0.000

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
E06	FAM		Unkn		N/A	0.00	0.000
E07	FAM		Unkn		N/A	0.00	0.000
E08	FAM		Unkn		N/A	0.00	0.000
E09	FAM		Unkn		N/A	0.00	0.000
E10	FAM		Unkn		N/A	0.00	0.000
E11	FAM		Unkn		N/A	0.00	0.000
E12	FAM		Unkn		N/A	0.00	0.000
F01	FAM	OXLA	Unkn	OXLA	32.36	32.36	0.000
F02	FAM	OXLA	Unkn	OXLA	33.00	33.00	0.000
F03	FAM		NTC		N/A	0.00	0.000
F04	FAM		NTC		N/A	0.00	0.000
F05	FAM		Unkn		N/A	0.00	0.000
F06	FAM		Unkn		N/A	0.00	0.000
F07	FAM		Unkn		N/A	0.00	0.000
F08	FAM		Unkn		N/A	0.00	0.000
F09	FAM		Unkn		N/A	0.00	0.000
F10	FAM		Unkn		N/A	0.00	0.000
F11	FAM		Unkn		N/A	0.00	0.000
F12	FAM		Unkn		N/A	0.00	0.000
G01	FAM	IF44L	Unkn	IF44L	36.17	36.17	0.000
G02	FAM	IF44L	Unkn	IF44L	37.33	37.33	0.000
G03	FAM		NTC		N/A	0.00	0.000
G04	FAM		NTC		N/A	0.00	0.000
G05	FAM		Unkn		N/A	0.00	0.000
G06	FAM		Unkn		N/A	0.00	0.000
G07	FAM		Unkn		N/A	0.00	0.000
G08	FAM		Unkn		N/A	0.00	0.000
G09	FAM		Unkn		N/A	0.00	0.000
G10	FAM		Unkn		N/A	0.00	0.000
G11	FAM		Unkn		N/A	0.00	0.000
G12	FAM		Unkn		N/A	0.00	0.000
H01	FAM	CO2	Unkn	CO2	31.54	31.54	0.000
H02	FAM	CO2	Unkn	CO2	29.80	29.80	0.000
H03	FAM		NTC		N/A	0.00	0.000
H04	FAM		NTC		N/A	0.00	0.000
H05	FAM		Unkn		N/A	0.00	0.000
H06	FAM		Unkn		N/A	0.00	0.000
H07	FAM		Unkn		N/A	0.00	0.000
H08	FAM		Unkn		N/A	0.00	0.000
H09	FAM		Unkn		N/A	0.00	0.000
H10	FAM		Unkn		N/A	0.00	0.000
H11	FAM		Unkn		N/A	0.00	0.000
H12	FAM		Unkn		N/A	0.00	0.000

Gene Expression

Normalized expression analysis is not possible, no target is assigned as a reference in the Experiment Settings.

Target Names

Name	Full Name	Reference	Auto Efficiency	Efficiency
AMPN	AMPN	False	Yes	100.0%
APLY	APLY	False	Yes	100.0%
CO2	CO2	False	Yes	100.0%
DEF1	DEF1	False	Yes	100.0%
FCN-1	FCN-1	False	Yes	100.0%
IF44L	IF44L	False	Yes	100.0%
LEC2	LEC2	False	Yes	100.0%
MPEG	MPEG	False	Yes	100.0%
NEP	NEP	False	Yes	100.0%
NERM	NERM	False	Yes	100.0%
OXLA	OXLA	False	Yes	100.0%
PXDN	PXDN	False	Yes	100.0%
SAMH1	SAMH1	False	Yes	100.0%

Sample Names

Name	Full Name	Control
APLY	APLY	No
CO2	CO2	No
DEF1	DEF1	No
FCN-1	FCN-1	No
IF44L	IF44L	No
LEC2	LEC2	No
MPEG	MPEG	No
NEP	NEP	No
NERM	NERM	No
OXLA	OXLA	No
PXDN	PXDN	No
SAMH1	SAMH1	No

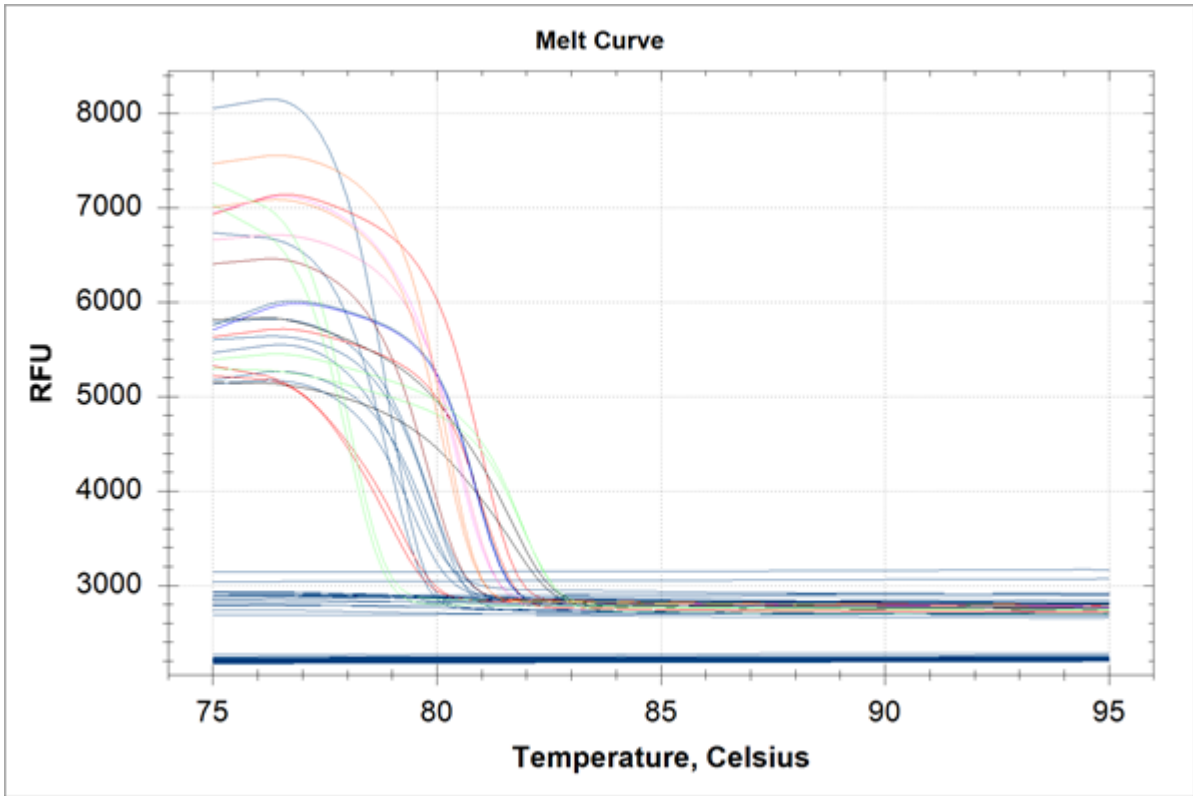
Gene Expression Data

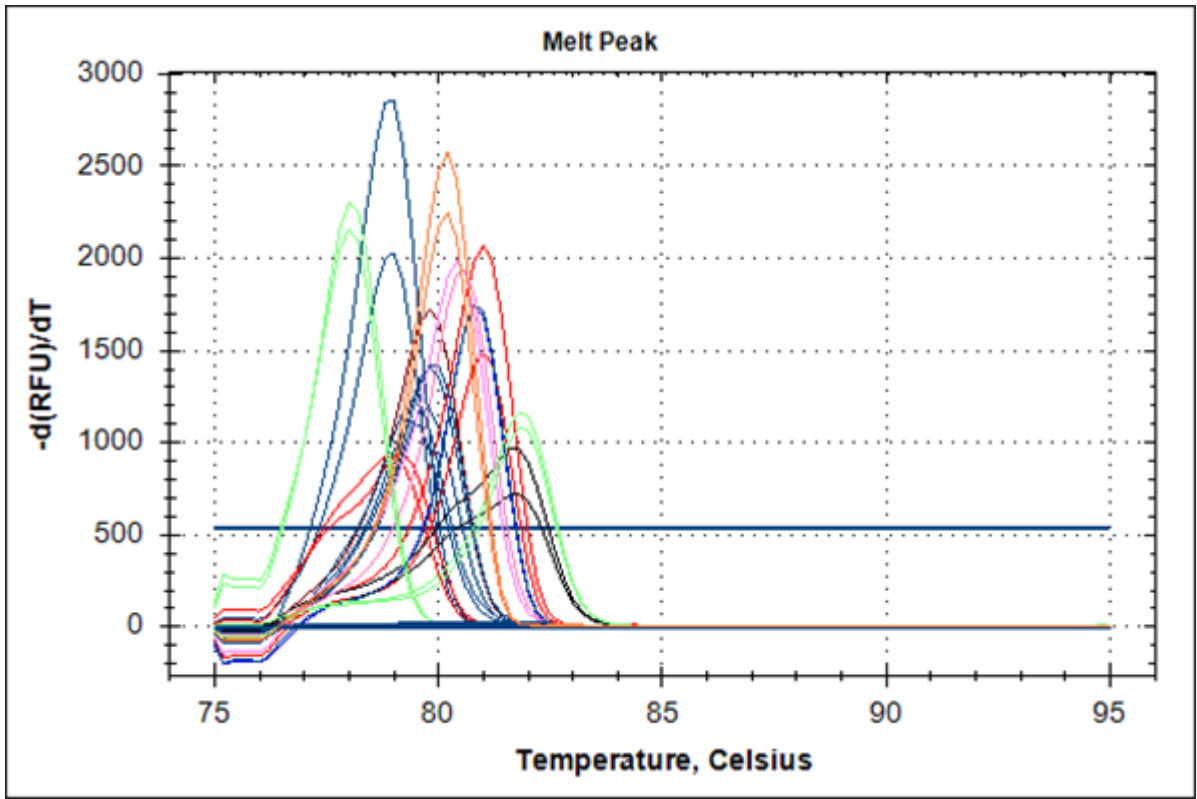
Data Set	Target	Sample	Relative Quantity	Relative Quantity SD	Corrected Relative Quantity SD	Relative Quantity SEM	Corrected Relative Quantity SEM	Unscaled Expression	Unscaled Expression SD	Corrected Unscaled Expression SD	Unscaled Expression SEM	Corrected Unscaled Expression SEM	Expression	Expression SD	Corrected Expression SD	Expression SEM	Corrected Expression SEM	W	M	C	C
																		q	S	D	SEM
1-FAM	AMPN	AMPN	0.0000	0.0000	0.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	0.0000	N/A
1-FAM	APLY	APLY	1.0000	0.72377	0.72377	0.51178	0.51178	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	233.4	1.048	0.7385	
1-FAM	CO2	CO2	1.0000	0.85356	0.85356	0.60355	0.60355	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	230.67	1.236	0.87075	

D a t a S e t	T a r g e t	S a m p l e	R e l a t i v e Q u a n t i t y	R e l a t i v e Q u a n t i t y S D	C o r r e c t e d R e l a t i v e Q u a n t i t y S D	R e l a t i v e Q u a n t i t y S E M	C o r r e c t e d R e l a t i v e Q u a n t i t y S E M	U n s c a l e d E x p r e s s i o n	U n s c a l e d E x p r e s s i o n S D	C o r r e c t e d U n s c a l e d E x p r e s s i o n S D	U n s c a l e d E x p r e s s i o n S E M	C o r r e c t e d U n s c a l e d E x p r e s s i o n S E M	E x p r e s s i o n	E x p r e s s i o n S D	C o r r e c t e d E x p r e s s i o n S D	E x p r e s s i o n S E M	C o r r e c t e d E x p r e s s i o n S E M	W e i g h t C o n t e n t	C o n t e n t	C o n t e n t S E M	C o n t e n t S E M		
1- F A M	DE F1	DE F1	1.00 000	0.15 459	0.154 59	0.10 931	0.109 31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 2 7 .1 1 2	0. 22 30 13	0. 15 77 1		
1- F A M	FC N- 1	FC N- 1	1.00 000	0.09 239	0.092 39	0.06 533	0.065 33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 3 6 .3 3 6	0. 13 32 9	0. 09 42 5		
1- F A M	IF 44 L	IF 44 L	1.00 000	0.56 867	0.568 67	0.40 211	0.402 11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 3 6 .7 5	0. 82 04 1	0. 58 01 2		
1- F A M	LE C2	LE C2	1.00 000	0.01 146	0.011 46	0.00 811	0.008 11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 2 8 .1 6	0. 01 65 4	0. 01 16 9		
1- F A M	M PE G	M PE G	1.00 000	0.32 145	0.321 45	0.22 730	0.227 30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 3 3 .4 6	0. 46 37 5	0. 32 79 2		
1- F A M	NE P	NE P	1.00 000	0.56 247	0.562 47	0.39 773	0.397 73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 3 3 .7 9	0. 81 14 8	0. 57 38 0		
1- F A M	NE R M	NE R M	1.00 000	0.05 062	0.050 62	0.03 579	0.035 79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 3 5 .6 0	0. 07 30 2	0. 05 16 4		
1- F A M	O XL A	O XL A	1.00 000	0.31 350	0.313 50	0.22 168	0.221 68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 3 2 .6 8	0. 45 22 9	0. 31 98 2		
1- F A M	PX D N	PX D N	1.00 000	0.94 378	0.943 78	0.66 735	0.667 35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 3 3 .6 4	1. 36 15 9	0. 96 27 9		
1- F A M	SA M H1	SA M H1	1.00 000	0.42 562	0.425 62	0.30 096	0.300 96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2 3 6 .3 4	0. 61 40 3	0. 43 41 9		

Melt Curve

Step #: 5





Melt Curve Data

Well	Fluor	Target	Content	Sample	Melt Temp
A01	FAM	MPEG	Unkn	MPEG	80.20
A02	FAM	MPEG	Unkn	MPEG	80.20
A03	FAM	NERM	Unkn	NERM	81.80
A04	FAM	NERM	Unkn	NERM	81.80
A05	FAM		Unkn		None
A06	FAM		Unkn		None
A07	FAM		Unkn		None
A08	FAM		Unkn		None
A09	FAM		Unkn		None
A10	FAM		Unkn		None
A11	FAM		Unkn		None
A12	FAM		Unkn		None
B01	FAM	AMPN	Unkn	AMPN	None
B02	FAM	AMPN	Unkn	AMPN	None
B03	FAM	DEF1	Unkn	DEF1	78.00
B04	FAM	DEF1	Unkn	DEF1	78.00
B05	FAM		Unkn		None
B06	FAM		Unkn		None
B07	FAM		Unkn		None
B08	FAM		Unkn		None
B09	FAM		Unkn		None
B10	FAM		Unkn		None
B11	FAM		Unkn		None
B12	FAM		Unkn		None
C01	FAM	LEC2	Unkn	LEC2	80.60

Well	Fluor	Target	Content	Sample	Melt Temp
C02	FAM	LEC2	Unkn	LEC2	80.40
C03	FAM	SAMH1	Unkn	SAMH1	79.40
C04	FAM	SAMH1	Unkn	SAMH1	79.40
C05	FAM		Unkn		None
C06	FAM		Unkn		None
C07	FAM		Unkn		None
C08	FAM		Unkn		None
C09	FAM		Unkn		None
C10	FAM		Unkn		None
C11	FAM		Unkn		None
C12	FAM		Unkn		None
D01	FAM	NEP	Unkn	NEP	80.00
D02	FAM	NEP	Unkn	NEP	79.80
D03	FAM	FCN-1	Unkn	FCN-1	80.80
D04	FAM	FCN-1	Unkn	FCN-1	80.80
D05	FAM		Unkn		None
D06	FAM		Unkn		None
D07	FAM		Unkn		None
D08	FAM		Unkn		None
D09	FAM		Unkn		None
D10	FAM		Unkn		None
D11	FAM		Unkn		None
D12	FAM		Unkn		None
E01	FAM	APLY	Unkn	APLY	81.80
E02	FAM	APLY	Unkn	APLY	81.60
E03	FAM	PXDN	Unkn	PXDN	81.00
E04	FAM	PXDN	Unkn	PXDN	81.00
E05	FAM		Unkn		None
E06	FAM		Unkn		None
E07	FAM		Unkn		None
E08	FAM		Unkn		None
E09	FAM		Unkn		None
E10	FAM		Unkn		None
E11	FAM		Unkn		None
E12	FAM		Unkn		None
F01	FAM	OXLA	Unkn	OXLA	79.20
F02	FAM	OXLA	Unkn	OXLA	79.00
F03	FAM		NTC		None
F04	FAM		NTC		None
F05	FAM		Unkn		None
F06	FAM		Unkn		None
F07	FAM		Unkn		None
F08	FAM		Unkn		None
F09	FAM		Unkn		None
F10	FAM		Unkn		None
F11	FAM		Unkn		None
F12	FAM		Unkn		None
G01	FAM	IF44L	Unkn	IF44L	79.80
G02	FAM	IF44L	Unkn	IF44L	79.80
G03	FAM		NTC		None

Well	Fluor	Target	Content	Sample	Melt Temp
G04	FAM		NTC		None
G05	FAM		Unkn		None
G06	FAM		Unkn		None
G07	FAM		Unkn		None
G08	FAM		Unkn		None
G09	FAM		Unkn		None
G10	FAM		Unkn		None
G11	FAM		Unkn		None
G12	FAM		Unkn		None
H01	FAM	CO2	Unkn	CO2	79.00
H02	FAM	CO2	Unkn	CO2	79.00
H03	FAM		NTC		None
H04	FAM		NTC		None
H05	FAM		Unkn		None
H06	FAM		Unkn		None
H07	FAM		Unkn		None
H08	FAM		Unkn		None
H09	FAM		Unkn		None
H10	FAM		Unkn		None
H11	FAM		Unkn		None
H12	FAM		Unkn		None

QC Parameters

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	FAM:A5, A6, A7, A8, A9, A10, A11, A12, B1, B2, B5, B6, B7, B8, B9, B10, B11, B12, C5, C6, C7, C8, C9, C10, C11, C12, D5, D6, D7, D8, D9, D10, D11, D12, E5, E6, E7, E8, E9, E10, E11, E12, F5, F6, F7, F8, F9, F10, F11, F12, G5, G6, G7, G8, G9, G10, 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		False	