

**180424_nakamura****Experiment**

Creation Date	04/24/2018 15:07:25	Last Modified Date	04/24/2018 16:48:04
Operator	System Admin	Owner	System Admin
Start Time	04/24/2018 15:12:39	End Time	04/24/2018 16:36:50
Run State	Completed	Software Version	LCS480 1.5.1.62
Macro		Macro Owner	
Macro Status			
Templates	SYBR Green I_THUNDERBIRDqPCR	Plate ID	02917219
Test ID		Lot ID	
Color Comp ID			
Run Notes			

Programs

Program Name	pre-incubation						
Cycles	1	Analysis Mode	None				
Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:01:00	4.80		0	0	0

Program Name	amplification						
Cycles	45	Analysis Mode	Quantification				
Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:15	4.80		0	0	0
60	None	00:00:15	2.50		0	0	0
72	Single	00:00:45	4.80		0	0	0

Program Name	melting curve						
Cycles	1	Analysis Mode	Melting Curves				
Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:05	4.80		0	0	0
65	None	00:01:00	2.50		0	0	0
97	Continuous		0.11	5	0	0	0

Program Name	cooling						
Cycles	1	Analysis Mode	None				
Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
40	None	00:00:30	2.50		0	0	0

Samples

Sample Count	20				
Subset	ANP				
Pos	Name	ID	Repl. Of	Sample Notes	
A9	Sample 9				
A10	Sample 10				
B10	Sample 34				
C9	Sample 57				
C10	Sample 58				
D10	Sample 82				
E9	Sample 105				
E10	Sample 106				
F10	Sample 130				
G9	Sample 153				
G10	Sample 154				
H10	Sample 178				
I9	Sample 201				
I10	Sample 202				
K9	Sample 249				
K10	Sample 250				
M9	Sample 297				
M10	Sample 298				
O9	Sample 345				
O10	Sample 346				

Revision History

Revision	Date	User	Reason

Abs Quant/2nd Derivative Max for ANP (Abs Quant/2nd Derivative Max)

Settings

Channel	483-533		
Color Compensation	Off		
Program	amplification	Units	
Mode	High Confidence		

Subset Name	ANP
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Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
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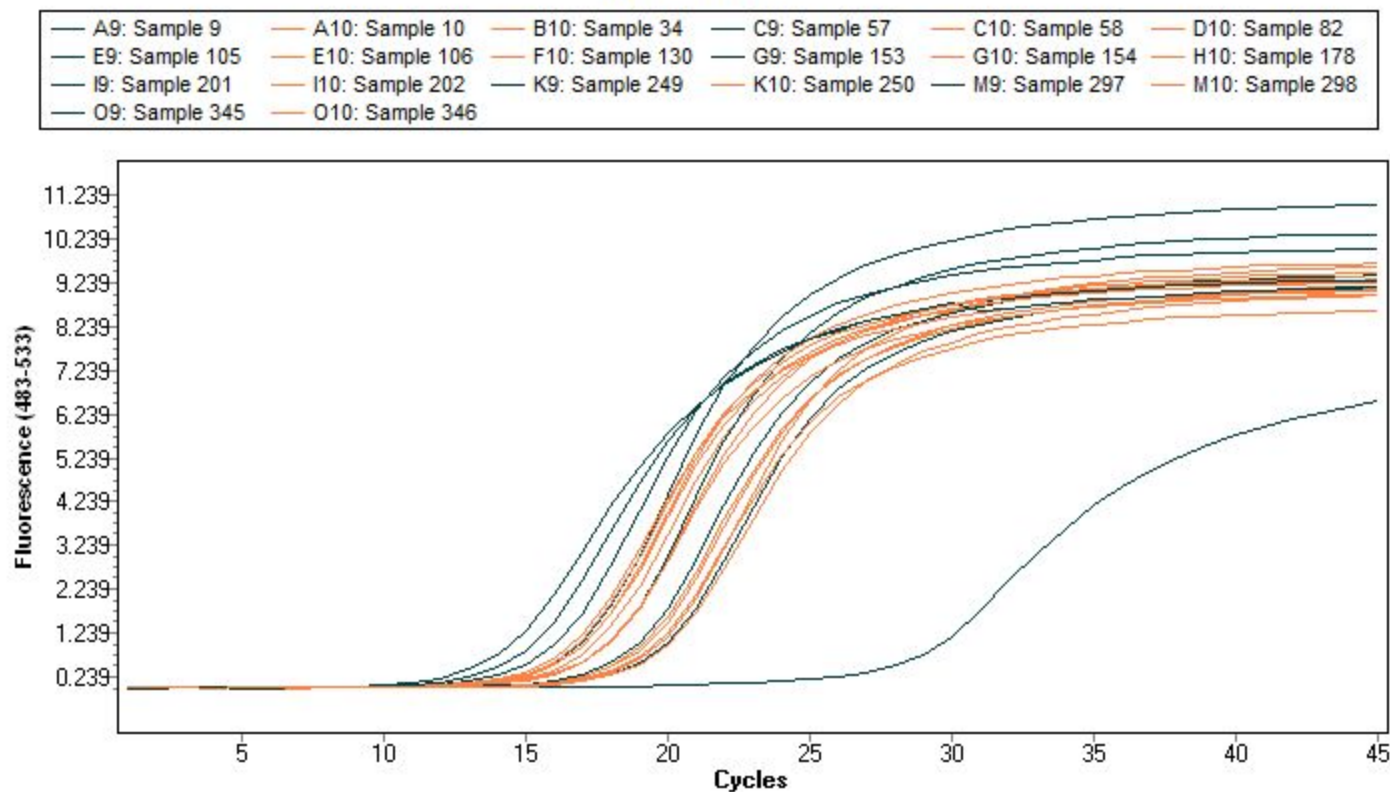
E - Extrapolated concentration in standard curve

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
<input checked="" type="checkbox"/>	A9	Sample 9	Negative Control	28.72	5.45E-4		
<input checked="" type="checkbox"/>	A10	Sample 10	Unknown	19.28	1.12E0		
<input checked="" type="checkbox"/>	B10	Sample 34	Unknown	16.92	6.65E0		
<input checked="" type="checkbox"/>	C9	Sample 57	Standard	19.44	9.91E-1	1.00E0	
<input checked="" type="checkbox"/>	C10	Sample 58	Unknown	18.60	1.88E0		
<input checked="" type="checkbox"/>	D10	Sample 82	Unknown	18.96	1.43E0		
<input checked="" type="checkbox"/>	E9	Sample 105	Standard	18.49	2.05E0	2.00E0	
<input checked="" type="checkbox"/>	E10	Sample 106	Unknown	18.76	1.66E0		
<input checked="" type="checkbox"/>	F10	Sample 130	Unknown	16.61	8.33E0		
<input checked="" type="checkbox"/>	G9	Sample 153	Standard	17.61	3.96E0	4.00E0	
<input checked="" type="checkbox"/>	G10	Sample 154	Unknown	19.50	9.45E-1		E
<input checked="" type="checkbox"/>	H10	Sample 178	Unknown	17.49	4.34E0		
<input checked="" type="checkbox"/>	I9	Sample 201	Standard	16.71	7.79E0	8.00E0	
<input checked="" type="checkbox"/>	I10	Sample 202	Unknown	17.27	5.12E0		
<input checked="" type="checkbox"/>	K9	Sample 249	Standard	15.70	1.64E1	1.60E1	
<input checked="" type="checkbox"/>	K10	Sample 250	Unknown	16.66	8.05E0		
<input checked="" type="checkbox"/>	M9	Sample 297	Standard	14.75	3.32E1	3.20E1	
<input checked="" type="checkbox"/>	M10	Sample 298	Unknown	16.10	1.22E1		
<input checked="" type="checkbox"/>	O9	Sample 345	Standard	13.91	6.18E1	6.40E1	
<input checked="" type="checkbox"/>	O10	Sample 346	Unknown	16.36	1.01E1		

E - Extrapolated concentration in standard curve

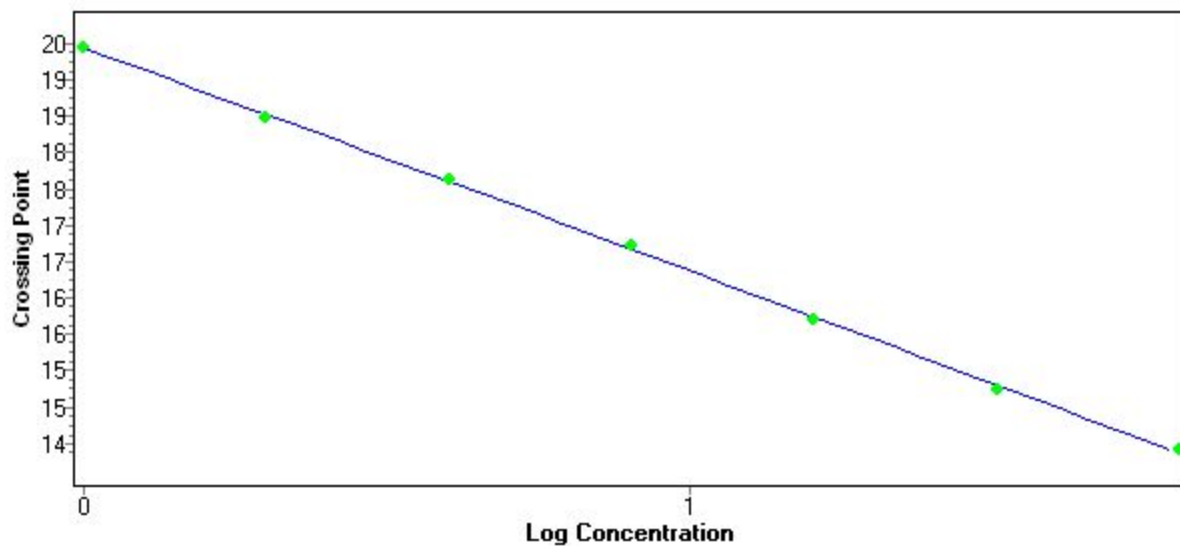
Amplification Curves



Standard Curve

— Std. curve ● Samples

Error: 0.00424
 Efficiency: 2.099
 Slope: -3.105
 YIntercept: 19.47
 Link: 7.789



Analysis Notes

Tm Calling for ANP (Tm Calling)

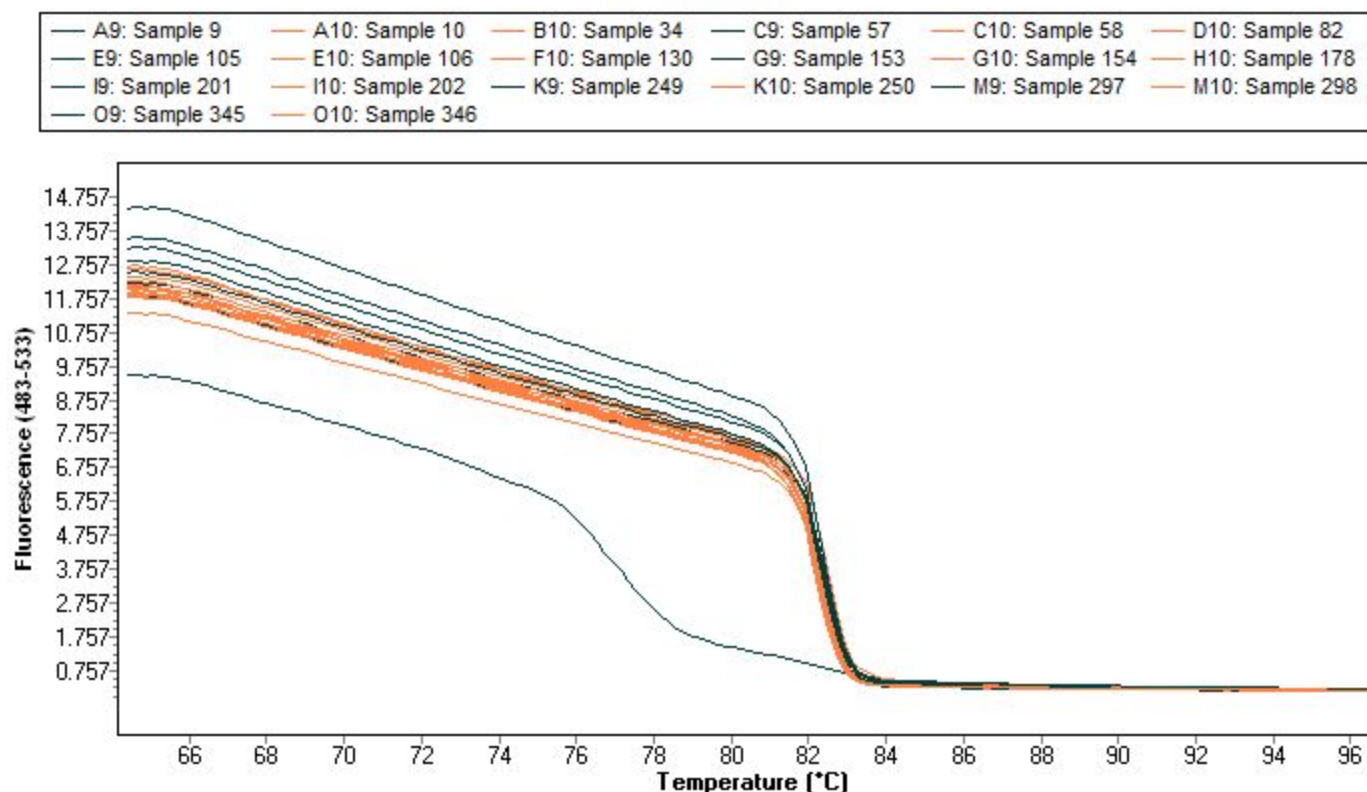
Settings

Channel	483-533	Color Compensation	Off		
Program	melting curve				
Show Shoulders	False	Chemistry	HybProbe	Max Peaks	2
Subset Name	ANP				

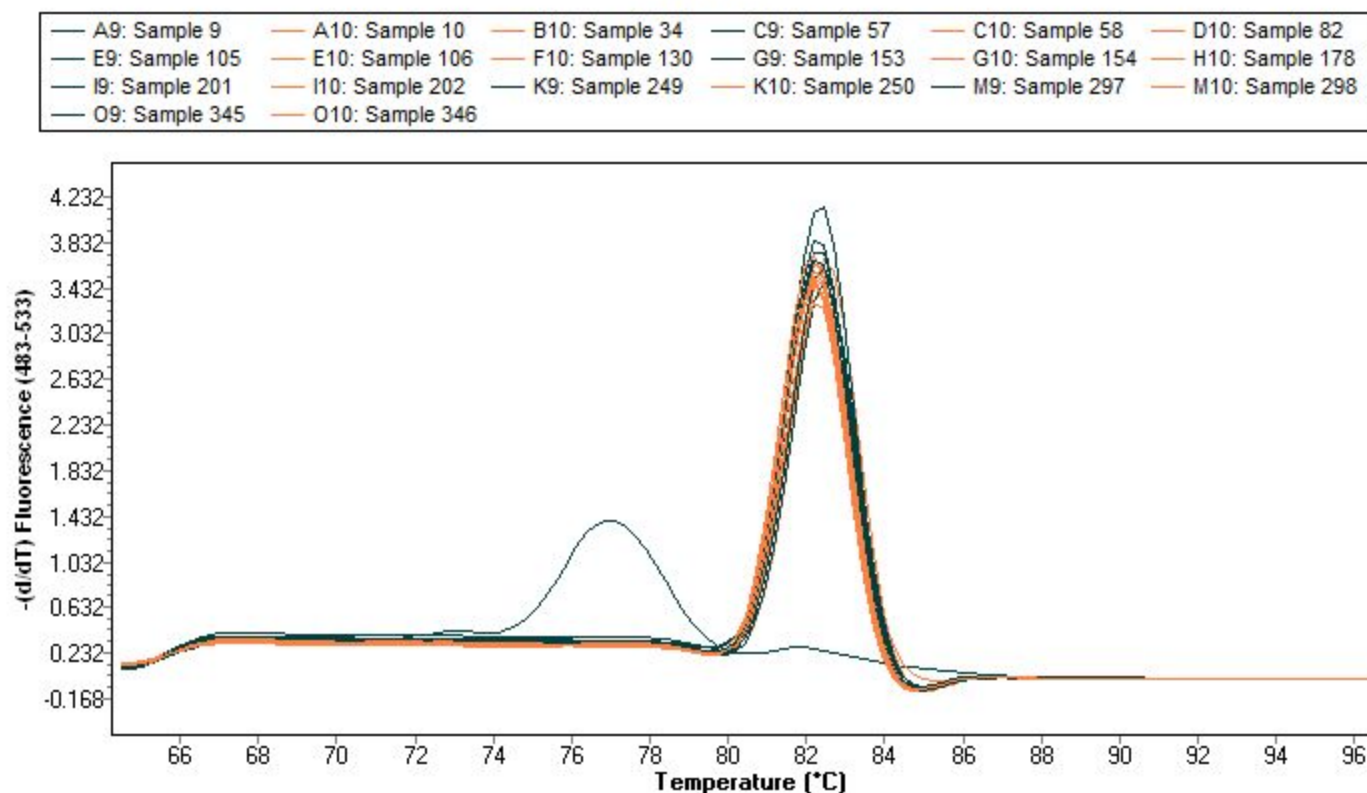
Results

Inc	Pos	Sample Name	Peak 1				Peak 2				Status
			Tm	Area	Width	Height	Tm	Area	Width	Height	
<input checked="" type="checkbox"/>	A9	Sample 9	77.19	4.24	3.04	1.39					
<input checked="" type="checkbox"/>	A10	Sample 10	82.55	6.98	1.87	3.74					
<input checked="" type="checkbox"/>	B10	Sample 34	82.45	6.70	1.94	3.46					
<input checked="" type="checkbox"/>	C9	Sample 57	82.51	6.66	1.88	3.55					
<input checked="" type="checkbox"/>	C10	Sample 58	82.38	6.65	1.88	3.54					
<input checked="" type="checkbox"/>	D10	Sample 82	82.32	6.37	1.90	3.35					
<input checked="" type="checkbox"/>	E9	Sample 105	82.46	6.88	1.87	3.69					
<input checked="" type="checkbox"/>	E10	Sample 106	82.30	6.76	1.88	3.59					
<input checked="" type="checkbox"/>	F10	Sample 130	82.29	6.84	1.88	3.63					
<input checked="" type="checkbox"/>	G9	Sample 153	82.37	7.55	1.99	3.80					
<input checked="" type="checkbox"/>	G10	Sample 154	82.28	6.63	1.88	3.53					
<input checked="" type="checkbox"/>	H10	Sample 178	82.34	7.01	1.89	3.71					
<input checked="" type="checkbox"/>	I9	Sample 201	82.40	8.10	1.92	4.21					
<input checked="" type="checkbox"/>	I10	Sample 202	82.24	6.63	1.86	3.56					
<input checked="" type="checkbox"/>	K9	Sample 249	82.35	7.40	1.90	3.89					
<input checked="" type="checkbox"/>	K10	Sample 250	82.22	7.10	1.87	3.81					
<input checked="" type="checkbox"/>	M9	Sample 297	82.35	6.98	1.87	3.73					
<input checked="" type="checkbox"/>	M10	Sample 298	82.21	6.68	1.86	3.59					
<input checked="" type="checkbox"/>	O9	Sample 345	82.34	6.99	1.88	3.72					
<input checked="" type="checkbox"/>	O10	Sample 346	82.32	6.88	1.89	3.63					

Melting Curves



Melting Peaks



Analysis Notes