

**180402_nakamura hMSC****Experiment**

Creation Date	04/02/2018 21:29:43	Last Modified Date	04/03/2018 09:30:18
Operator	System Admin	Owner	System Admin
Start Time	04/02/2018 21:31:53	End Time	04/02/2018 22:55:23
Run State	Completed	Software Version	LCS480 1.5.1.62
Macro		Macro Owner	
Macro Status			
Templates	SYBR Green I_THUNDERBIRDqPCR	Plate ID	02917241
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		24			
Subset		hTcad			
Pos	Name	ID	Repl. Of	Sample Notes	
A21	Sample 21				
A22	Sample 22				
B22	Sample 46				
C21	Sample 69				
C22	Sample 70				
D22	Sample 94				
E21	Sample 117				
E22	Sample 118				
F22	Sample 142				
G21	Sample 165				
G22	Sample 166				
H22	Sample 190				
I21	Sample 213				
I22	Sample 214				
J22	Sample 238				
K21	Sample 261				
K22	Sample 262				
L22	Sample 286				
M21	Sample 309				
M22	Sample 310				
N22	Sample 334				
O21	Sample 357				
O22	Sample 358				
P22	Sample 382				

Revision History

Revision	Date	User	Reason

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

Settings

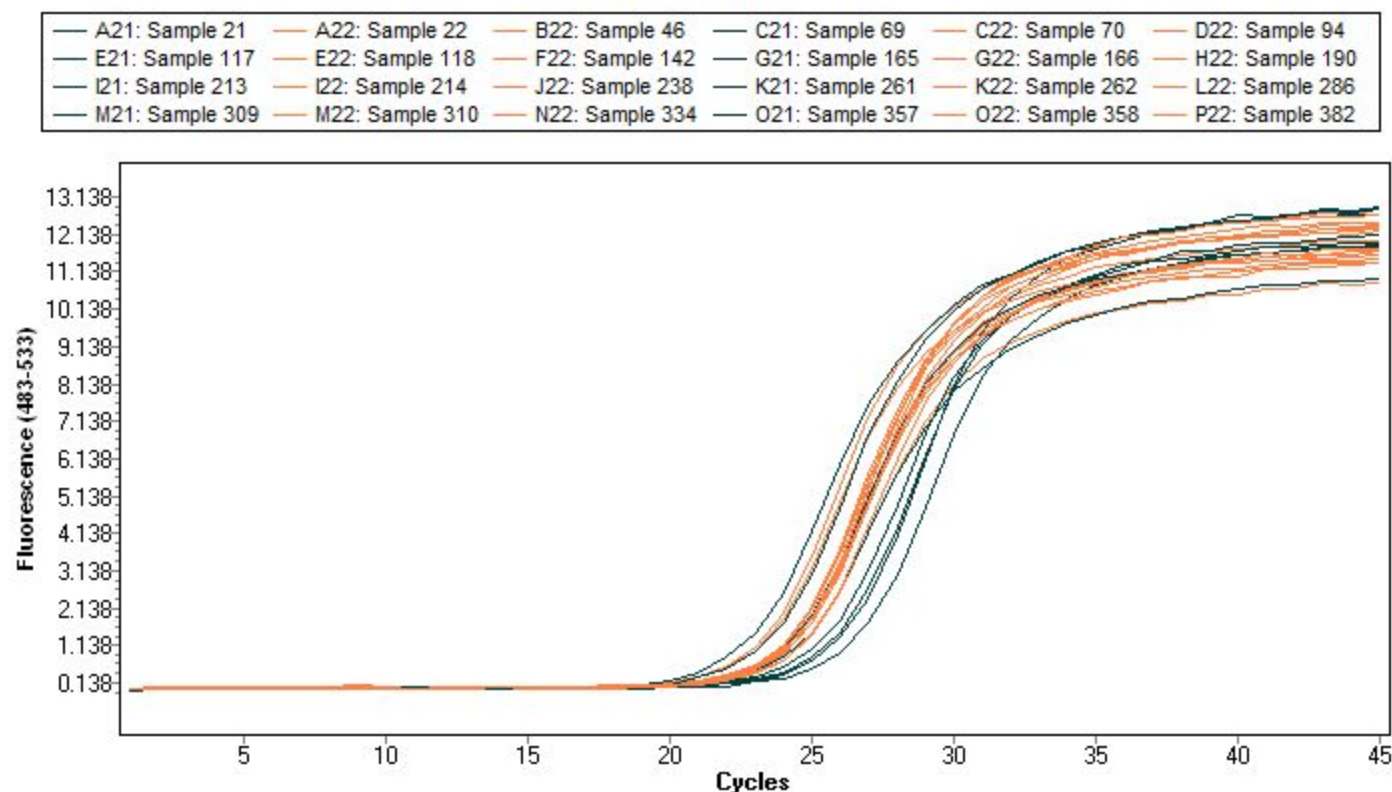
Channel	483-533		
Color Compensation	Off		
Program	amplification	Units	
Mode	High Confidence		

Subset Name	hTcad
-------------	-------

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
<input checked="" type="checkbox"/>	A21	Sample 21	Negative Control	26.01	2.77E-1		
<input checked="" type="checkbox"/>	A22	Sample 22	Unknown	24.07	9.96E0		
<input checked="" type="checkbox"/>	B22	Sample 46	Unknown	23.65	1.57E1		
<input checked="" type="checkbox"/>	C21	Sample 69	Standard	25.64	9.87E-1	1.00E0	
<input checked="" type="checkbox"/>	C22	Sample 70	Unknown	24.11	9.58E0		
<input checked="" type="checkbox"/>	D22	Sample 94	Unknown	23.76	1.39E1		
<input checked="" type="checkbox"/>	E21	Sample 117	Standard	25.34	2.08E0	2.00E0	
<input checked="" type="checkbox"/>	E22	Sample 118	Unknown	22.77	4.03E1		
<input checked="" type="checkbox"/>	F22	Sample 142	Unknown	23.83	1.29E1		
<input checked="" type="checkbox"/>	G21	Sample 165	Standard	24.96	3.82E0	4.00E0	
<input checked="" type="checkbox"/>	G22	Sample 166	Unknown	22.83	3.79E1		
<input checked="" type="checkbox"/>	H22	Sample 190	Unknown	23.79	1.34E1		
<input checked="" type="checkbox"/>	I21	Sample 213	Standard	24.03	1.04E1	8.00E0	
<input checked="" type="checkbox"/>	I22	Sample 214	Unknown	23.90	1.20E1		
<input checked="" type="checkbox"/>	J22	Sample 238	Unknown	23.80	1.34E1		
<input checked="" type="checkbox"/>	K21	Sample 261	Standard	23.80	1.33E1	1.60E1	
<input checked="" type="checkbox"/>	K22	Sample 262	Unknown	24.18	8.86E0		
<input checked="" type="checkbox"/>	L22	Sample 286	Unknown	23.83	1.29E1		
<input checked="" type="checkbox"/>	M21	Sample 309	Standard	23.06	2.96E1	3.20E1	
<input checked="" type="checkbox"/>	M22	Sample 310	Unknown	24.01	1.06E1		
<input checked="" type="checkbox"/>	N22	Sample 334	Unknown	23.71	1.47E1		
<input checked="" type="checkbox"/>	O21	Sample 357	Standard	22.30	6.68E1	6.40E1	
<input checked="" type="checkbox"/>	O22	Sample 358	Unknown	23.93	1.16E1		
<input checked="" type="checkbox"/>	P22	Sample 382	Unknown	23.67	1.54E1		

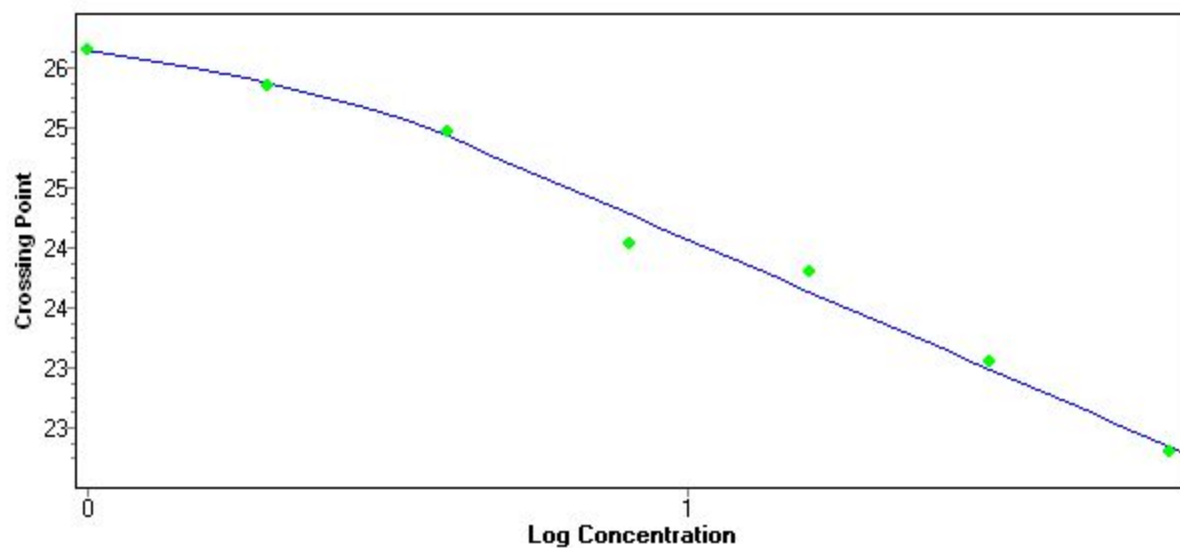
Amplification Curves



Standard Curve

— Std. curve ● Samples

Error: 0.0210
 Efficiency: 2.933
 Slope: -2.140
 YIntercept: 26.21
 Link: 3.817



Analysis Notes

Tm Calling for hTcad (Tm Calling)

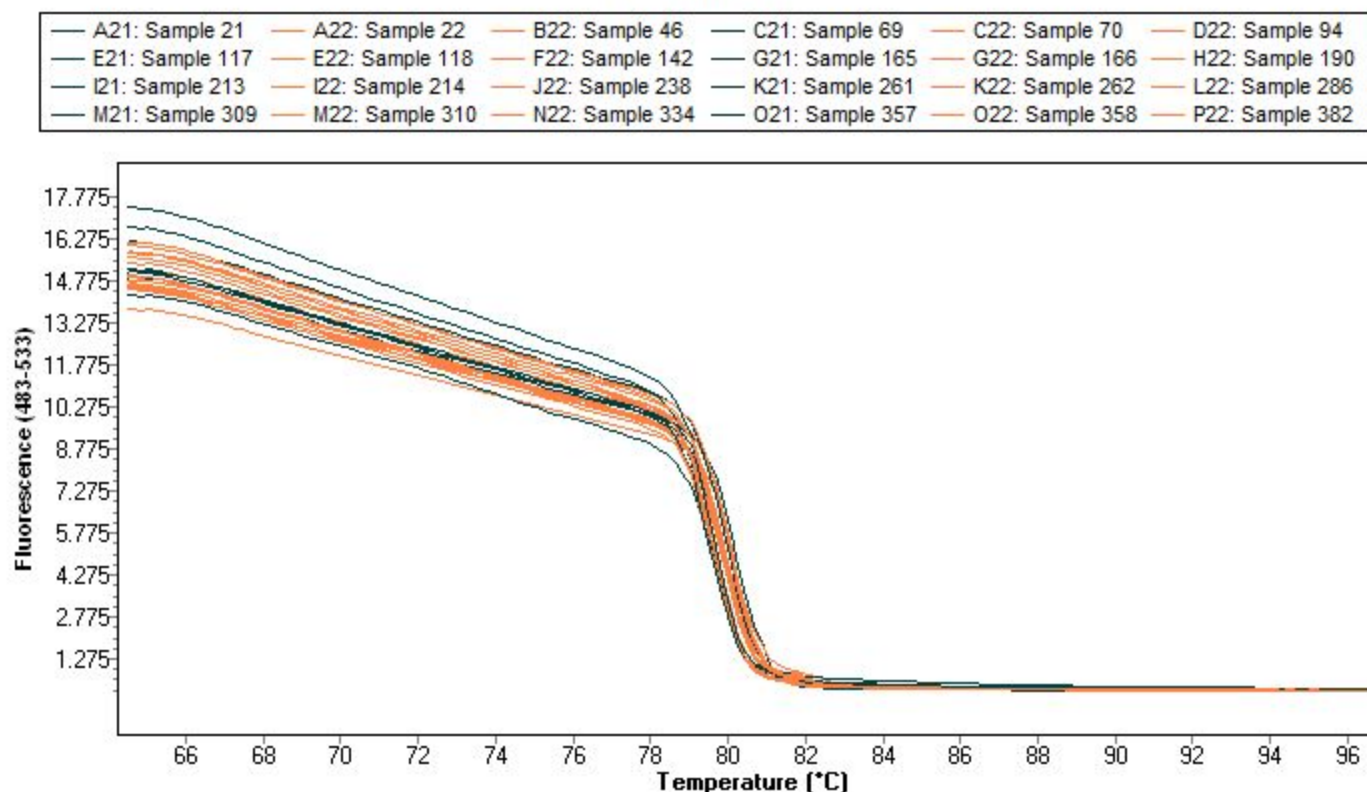
Settings

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

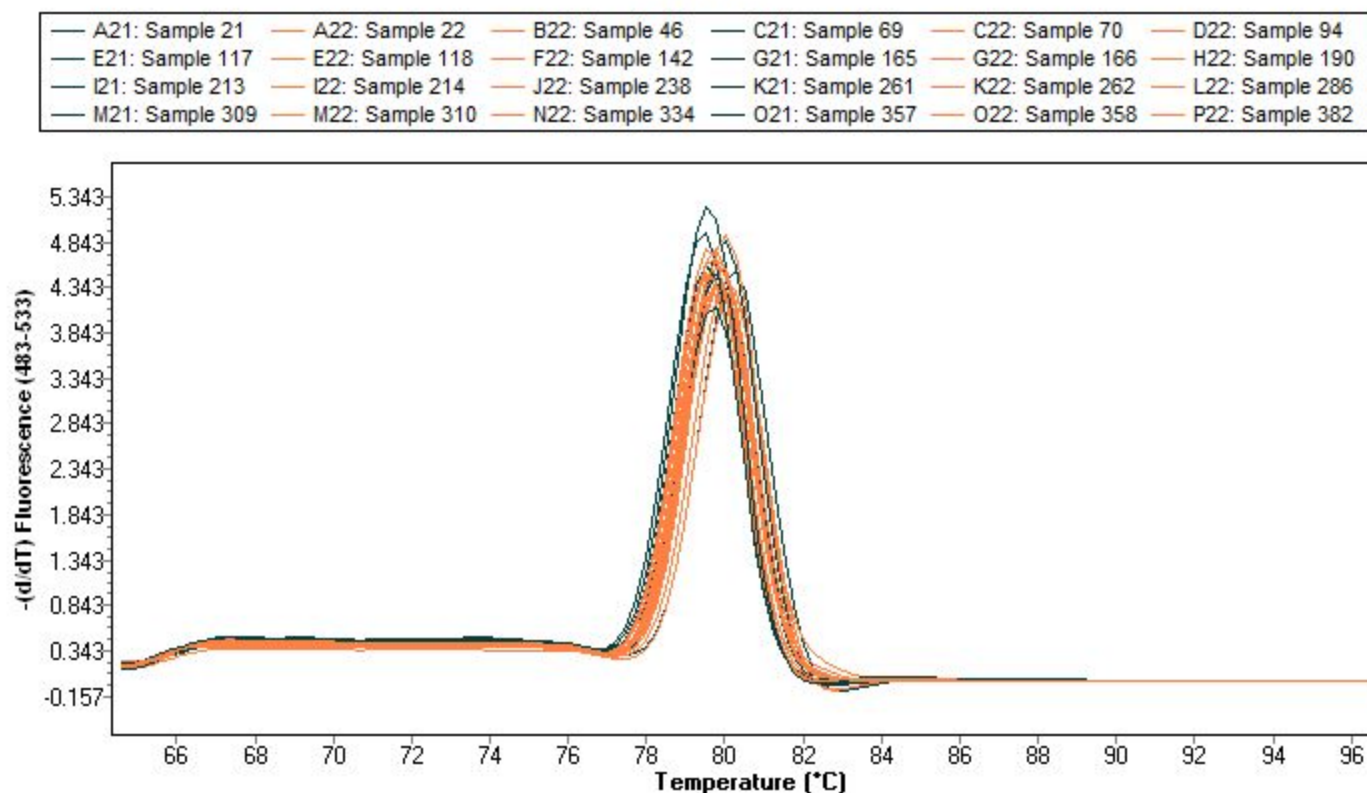
Results

Inc	Pos	Sample Name	Peak 1				Peak 2				Status
			Tm	Area	Width	Height	Tm	Area	Width	Height	
<input checked="" type="checkbox"/>	A21	Sample 21	80.27	9.50	2.04	4.65					
<input checked="" type="checkbox"/>	A22	Sample 22	80.20	8.80	2.00	4.40					
<input checked="" type="checkbox"/>	B22	Sample 46	80.14	9.59	2.14	4.48					
<input checked="" type="checkbox"/>	C21	Sample 69	80.00	10.35	2.07	5.00					
<input checked="" type="checkbox"/>	C22	Sample 70	80.06	10.30	2.04	5.04					
<input checked="" type="checkbox"/>	D22	Sample 94	79.93	9.11	2.07	4.41					
<input checked="" type="checkbox"/>	E21	Sample 117	79.91	9.74	2.09	4.66					
<input checked="" type="checkbox"/>	E22	Sample 118	79.95	9.81	2.10	4.66					
<input checked="" type="checkbox"/>	F22	Sample 142	79.88	9.29	2.11	4.40					
<input checked="" type="checkbox"/>	G21	Sample 165	79.85	9.58	2.11	4.55					
<input checked="" type="checkbox"/>	G22	Sample 166	79.87	9.36	2.10	4.46					
<input checked="" type="checkbox"/>	H22	Sample 190	79.86	9.41	2.12	4.44					
<input checked="" type="checkbox"/>	I21	Sample 213	79.73	8.59	2.04	4.21					
<input checked="" type="checkbox"/>	I22	Sample 214	79.85	10.08	2.15	4.69					
<input checked="" type="checkbox"/>	J22	Sample 238	79.73	9.12	2.09	4.37					
<input checked="" type="checkbox"/>	K21	Sample 261	79.61	9.65	2.07	4.66					
<input checked="" type="checkbox"/>	K22	Sample 262	79.64	9.52	2.08	4.58					
<input checked="" type="checkbox"/>	L22	Sample 286	79.64	9.47	2.08	4.56					
<input checked="" type="checkbox"/>	M21	Sample 309	79.51	10.42	2.07	5.05					
<input checked="" type="checkbox"/>	M22	Sample 310	79.66	10.04	2.08	4.83					
<input checked="" type="checkbox"/>	N22	Sample 334	79.72	9.84	2.07	4.76					
<input checked="" type="checkbox"/>	O21	Sample 357	79.62	10.81	2.04	5.30					
<input checked="" type="checkbox"/>	O22	Sample 358	79.80	10.16	2.10	4.85					
<input checked="" type="checkbox"/>	P22	Sample 382	79.89	9.90	2.10	4.72					

Melting Curves



Melting Peaks



Analysis Notes