

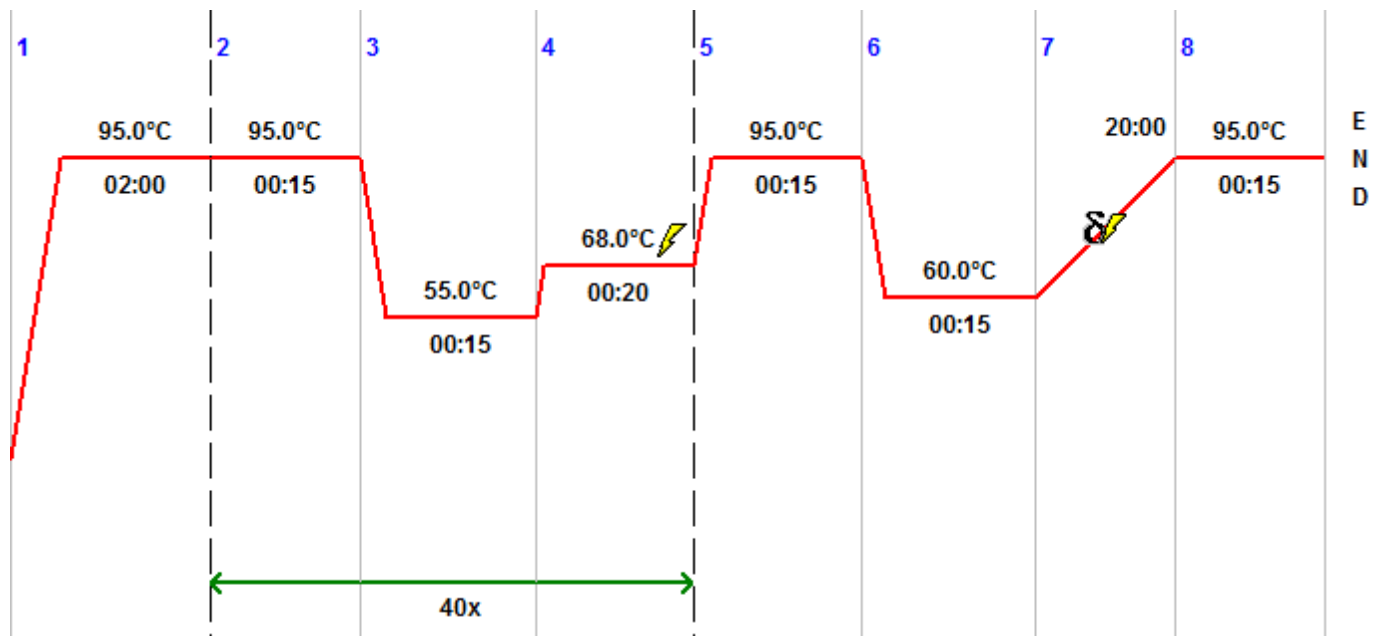
## Document information

Software:	realplex 2.2	
File Name:	EPPENDORF\ileum_plate8	
Printed by:	EPPENDORF	
Created:	Nov/20/2018 16:32	
Serial No. Thermo Module:	6325 30387	
Serial No. realplex Module.:	630011465	
Acquisition Start Time:	EPPENDORF	Nov/20/2018 16:36
Acquisition End Time:	EPPENDORF	Nov/20/2018 18:04
Last updated:	EPPENDORF	Nov/06/2018 18:40
Background:	Sarstedt-20µl	Sep/12/2011 10:28
Color Calibration:	SYBR	Mar/12/2018 15:31
ileum_plate8	Quantification	Nov/20/2018 18:13
	Melting Curve	Nov/20/2018 18:13
Inverted Data:	OFF	
Comment:		

## Plate layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00
B	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00
C	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00
D	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00
E	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00
F	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00
G	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00	ILWE_A... 1: 1.00
H	NTC	NTC	NTC	NTC	NTC	NTC	water	water	water	water	water	water

## PCR Program

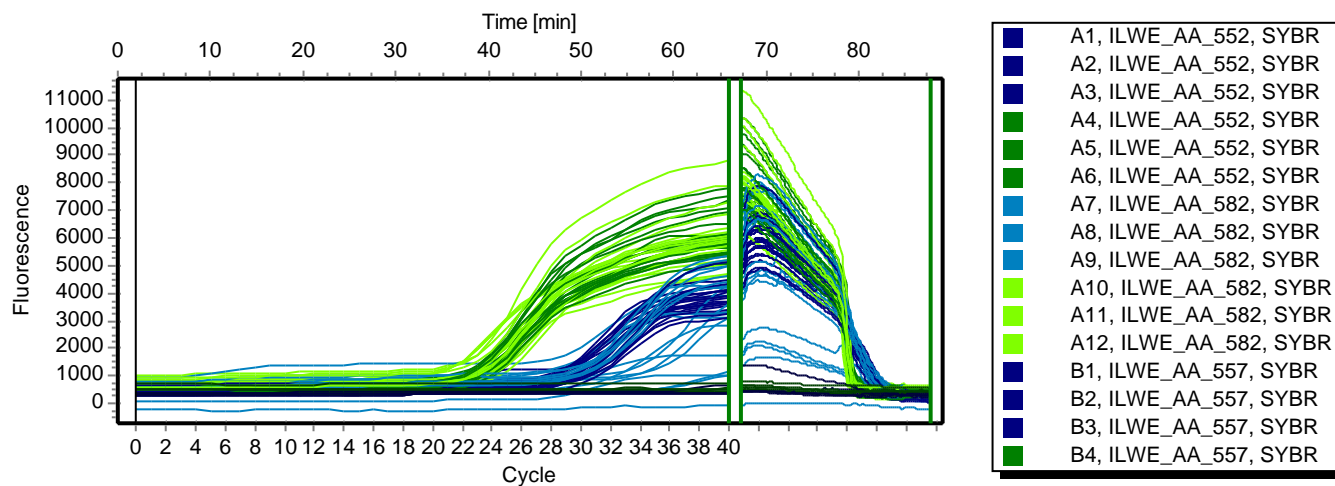


### Program Header

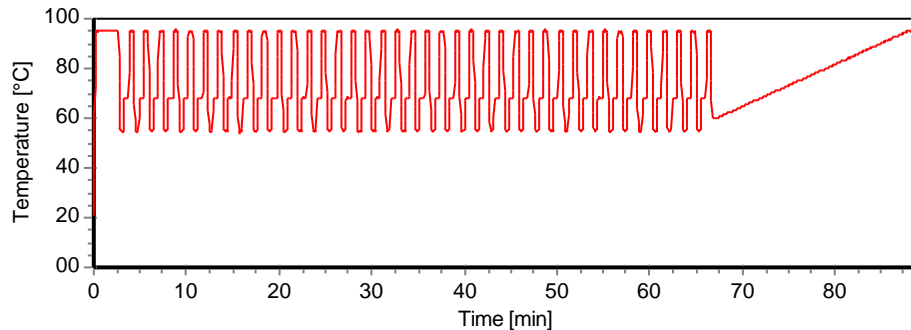
Lid Temp	105 °C	TSP Heated Lid	Yes
Temp. Mode	Standard	Switch off lid at low block temp	No
Impulse	No	Simulate Mastercycler gradient	No

## Raw Data SYBR

### Fluorescence Profile







































































































### Temperature Profile



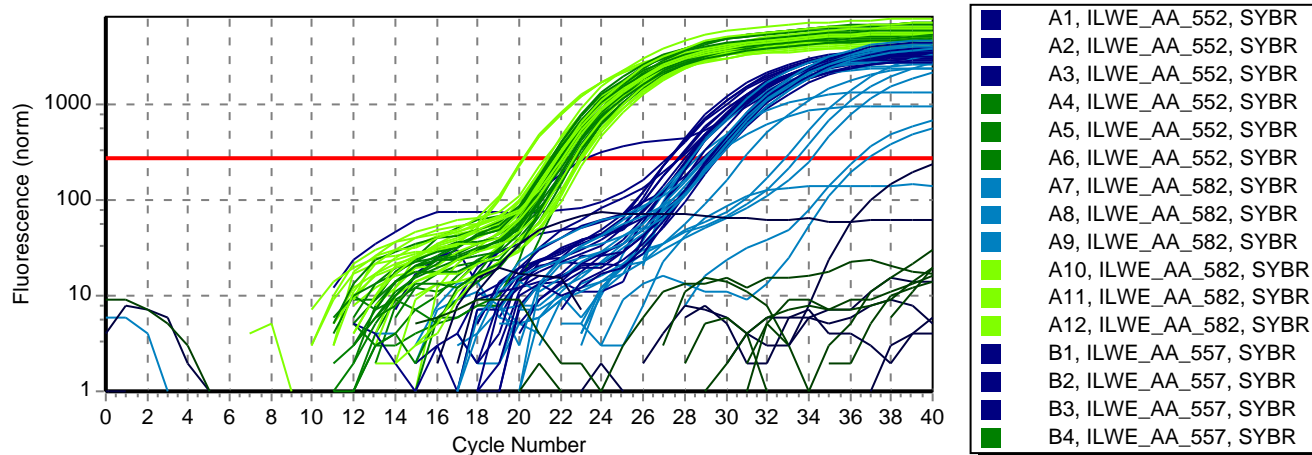
## Quantification SYBR

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
A1	ILWE_AA_552	27.68	27.55	0.28	1.00			eimeria
A2	ILWE_AA_552	27.23	27.55	0.28	1.00			eimeria
A3	ILWE_AA_552	27.74	27.55	0.28	1.00			eimeria
A4	ILWE_AA_552	22.58	22.30	0.29	1.00			mouse
A5	ILWE_AA_552	22.00	22.30	0.29	1.00			mouse
A6	ILWE_AA_552	22.33	22.30	0.29	1.00			mouse
A7	ILWE_AA_582	36.86	36.59	0.39	1.00			eimeria
A8	ILWE_AA_582	36.32	36.59	0.39	1.00			eimeria
A9	ILWE_AA_582		36.59	0.39	1.00			eimeria
A10	ILWE_AA_582	21.53	21.44	0.15	1.00			mouse
A11	ILWE_AA_582	21.27	21.44	0.15	1.00			mouse
A12	ILWE_AA_582	21.52	21.44	0.15	1.00			mouse
B1	ILWE_AA_557	28.91	27.28	3.42	1.00			eimeria
B2	ILWE_AA_557	23.35	27.28	3.42	1.00			eimeria
B3	ILWE_AA_557	29.58	27.28	3.42	1.00			eimeria
B4	ILWE_AA_557	22.76	22.66	0.15	1.00			mouse
B5	ILWE_AA_557	22.48	22.66	0.15	1.00			mouse
B6	ILWE_AA_557	22.73	22.66	0.15	1.00			mouse
B7	ILWE_AA_584	28.37	28.44	0.12	1.00			eimeria
B8	ILWE_AA_584	28.37	28.44	0.12	1.00			eimeria
B9	ILWE_AA_584	28.59	28.44	0.12	1.00			eimeria
B10	ILWE_AA_584	20.19	20.22	0.04	1.00			mouse
B11	ILWE_AA_584	20.21	20.22	0.04	1.00			mouse
B12	ILWE_AA_584	20.26	20.22	0.04	1.00			mouse
C1	ILWE_AA_576	27.31	27.30	0.02	1.00			eimeria
C2	ILWE_AA_576	27.27	27.30	0.02	1.00			eimeria
C3	ILWE_AA_576	27.31	27.30	0.02	1.00			eimeria
C4	ILWE_AA_576	21.89	21.73	0.15	1.00			mouse
C5	ILWE_AA_576	21.59	21.73	0.15	1.00			mouse
C6	ILWE_AA_576	21.70	21.73	0.15	1.00			mouse
C7	ILWE_AA_586	28.21	28.62	0.62	1.00			eimeria
C8	ILWE_AA_586	28.31	28.62	0.62	1.00			eimeria
C9	ILWE_AA_586	29.34	28.62	0.62	1.00			eimeria
C10	ILWE_AA_586	22.08	22.00	0.11	1.00			mouse
C11	ILWE_AA_586	21.88	22.00	0.11	1.00			mouse

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
  C12	ILWE_AA_586	22.05	22.00	0.11	1.00			mouse
  D1	ILWE_AA_577	28.41	28.24	0.15	1.00			eimeria
  D2	ILWE_AA_577	28.18	28.24	0.15	1.00			eimeria
  D3	ILWE_AA_577	28.12	28.24	0.15	1.00			eimeria
  D4	ILWE_AA_577	22.88	22.68	0.21	1.00			mouse
  D5	ILWE_AA_577	22.45	22.68	0.21	1.00			mouse
  D6	ILWE_AA_577	22.70	22.68	0.21	1.00			mouse
  D7	ILWE_AA_587	34.12	33.46	0.63	1.00			eimeria
  D8	ILWE_AA_587	32.88	33.46	0.63	1.00			eimeria
  D9	ILWE_AA_587	33.39	33.46	0.63	1.00			eimeria
  D10	ILWE_AA_587	23.08	23.12	0.14	1.00			mouse
  D11	ILWE_AA_587	23.01	23.12	0.14	1.00			mouse
  D12	ILWE_AA_587	23.27	23.12	0.14	1.00			mouse
  E1	ILWE_AA_579	28.28	28.03	0.25	1.00			eimeria
  E2	ILWE_AA_579	28.03	28.03	0.25	1.00			eimeria
  E3	ILWE_AA_579	27.79	28.03	0.25	1.00			eimeria
  E4	ILWE_AA_579	22.19	22.14	0.12	1.00			mouse
  E5	ILWE_AA_579	22.00	22.14	0.12	1.00			mouse
  E6	ILWE_AA_579	22.22	22.14	0.12	1.00			mouse
  E7	ILWE_AA_589	28.35	29.54	1.27	1.00			eimeria
  E8	ILWE_AA_589	29.38	29.54	1.27	1.00			eimeria
  E9	ILWE_AA_589	30.87	29.54	1.27	1.00			eimeria
  E10	ILWE_AA_589	22.95	22.88	0.18	1.00			mouse
  E11	ILWE_AA_589	22.67	22.88	0.18	1.00			mouse
  E12	ILWE_AA_589	23.00	22.88	0.18	1.00			mouse
  F1	ILWE_AA_580	29.29	29.07	0.30	1.00			eimeria
  F2	ILWE_AA_580	28.72	29.07	0.30	1.00			eimeria
  F3	ILWE_AA_580	29.21	29.07	0.30	1.00			eimeria
  F4	ILWE_AA_580	22.45	22.19	0.26	1.00			mouse
  F5	ILWE_AA_580	21.93	22.19	0.26	1.00			mouse
  F6	ILWE_AA_580	22.19	22.19	0.26	1.00			mouse
  F7	ILWE_AA_590	29.07	29.25	0.20	1.00			eimeria
  F8	ILWE_AA_590	29.47	29.25	0.20	1.00			eimeria
  F9	ILWE_AA_590	29.22	29.25	0.20	1.00			eimeria
  F10	ILWE_AA_590	21.82	21.66	0.24	1.00			mouse
  F11	ILWE_AA_590	21.39	21.66	0.24	1.00			mouse
  F12	ILWE_AA_590	21.77	21.66	0.24	1.00			mouse
  G1	ILWE_AA_581	29.58	29.31	0.23	1.00			eimeria
  G2	ILWE_AA_581	29.14	29.31	0.23	1.00			eimeria

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
 G3	ILWE_AA_581	29.22	29.31	0.23	1.00			eimeria
 G4	ILWE_AA_581	21.60	21.58	0.05	1.00			mouse
 G5	ILWE_AA_581	21.52	21.58	0.05	1.00			mouse
 G6	ILWE_AA_581	21.63	21.58	0.05	1.00			mouse
 G7	ILWE_AA_591	29.47	29.33	0.32	1.00			eimeria
 G8	ILWE_AA_591	28.97	29.33	0.32	1.00			eimeria
 G9	ILWE_AA_591	29.56	29.33	0.32	1.00			eimeria
 G10	ILWE_AA_591	22.05	22.02	0.17	1.00			mouse
 G11	ILWE_AA_591	21.83	22.02	0.17	1.00			mouse
 G12	ILWE_AA_591	22.17	22.02	0.17	1.00			mouse
 H1	NTC	-			-			eimeria
 H2	NTC	-			-			eimeria
 H3	NTC	-			-			eimeria
 H4	NTC	-			-			mouse
 H5	NTC	-			-			mouse
 H6	NTC	-			-			mouse
 H7	water	-			-			eimeria
 H8	water	-			-			eimeria
 H9	water	-			-			eimeria
 H10	water	-			-			mouse
 H11	water	-			-			mouse
 H12	water	-			-			mouse

## Amplification Plot



## Standard curve






























Slope - R<sup>2</sup> -





















Y-Intercept - Efficiency -



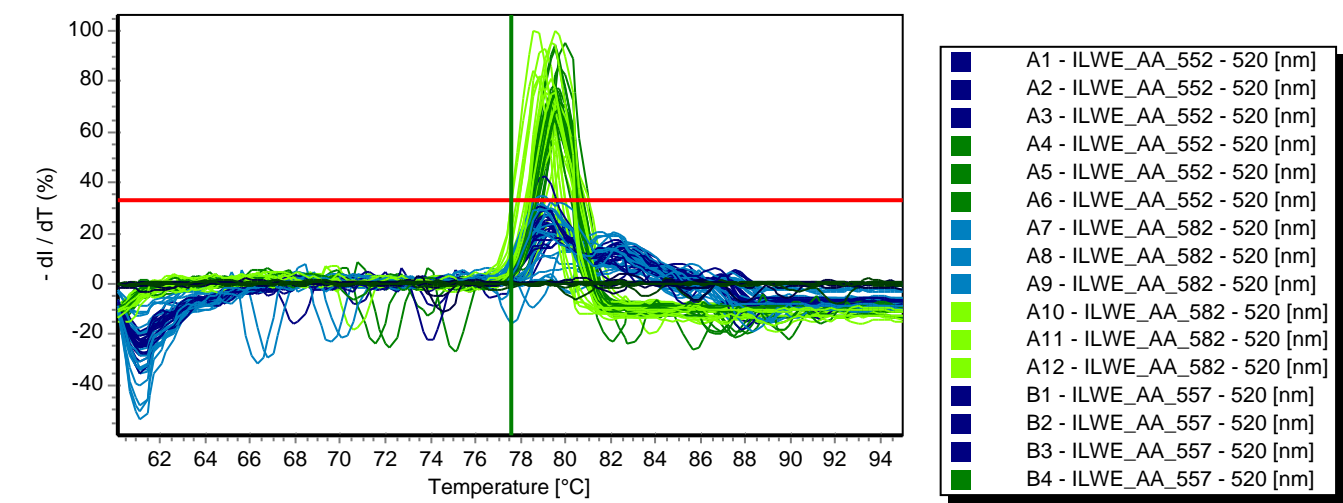
## Melting Curve SYBR

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 A1	ILWE_AA_552	0				
 A2	ILWE_AA_552	0				
 A3	ILWE_AA_552	0				
 A4	ILWE_AA_552	1	79.8			
 A5	ILWE_AA_552	1	80.0			
 A6	ILWE_AA_552	1	79.8			
 A7	ILWE_AA_582	0				
 A8	ILWE_AA_582	0				
 A9	ILWE_AA_582	0				
 A10	ILWE_AA_582	1	79.9			
 A11	ILWE_AA_582	1	79.7			
 A12	ILWE_AA_582	1	80.2			
 B1	ILWE_AA_557	0				
 B2	ILWE_AA_557	0				
 B3	ILWE_AA_557	0				
 B4	ILWE_AA_557	1	79.7			
 B5	ILWE_AA_557	1	79.8			
 B6	ILWE_AA_557	1	79.8			
 B7	ILWE_AA_584	0				
 B8	ILWE_AA_584	0				
 B9	ILWE_AA_584	0				
 B10	ILWE_AA_584	1	79.5			
 B11	ILWE_AA_584	1	79.6			
 B12	ILWE_AA_584	1	79.6			
 C1	ILWE_AA_576	0				
 C2	ILWE_AA_576	0				
 C3	ILWE_AA_576	0				
 C4	ILWE_AA_576	1	79.5			
 C5	ILWE_AA_576	1	79.7			
 C6	ILWE_AA_576	1	79.6			
 C7	ILWE_AA_586	0				
 C8	ILWE_AA_586	0				
 C9	ILWE_AA_586	0				
 C10	ILWE_AA_586	1	79.4			
 C11	ILWE_AA_586	1	79.5			
 C12	ILWE_AA_586	1	79.6			

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 D1	ILWE_AA_577	0				
 D2	ILWE_AA_577	0				
 D3	ILWE_AA_577	0				
 D4	ILWE_AA_577	1	79.4			
 D5	ILWE_AA_577	1	79.5			
 D6	ILWE_AA_577	1	79.5			
 D7	ILWE_AA_587	0				
 D8	ILWE_AA_587	0				
 D9	ILWE_AA_587	0				
 D10	ILWE_AA_587	1	79.0			
 D11	ILWE_AA_587	1	79.0			
 D12	ILWE_AA_587	1	79.2			
 E1	ILWE_AA_579	0				
 E2	ILWE_AA_579	0				
 E3	ILWE_AA_579	0				
 E4	ILWE_AA_579	1	79.3			
 E5	ILWE_AA_579	1	79.5			
 E6	ILWE_AA_579	1	79.5			
 E7	ILWE_AA_589	0				
 E8	ILWE_AA_589	0				
 E9	ILWE_AA_589	0				
 E10	ILWE_AA_589	1	78.6			
 E11	ILWE_AA_589	1	78.7			
 E12	ILWE_AA_589	1	78.8			
 F1	ILWE_AA_580	0				
 F2	ILWE_AA_580	0				
 F3	ILWE_AA_580	0				
 F4	ILWE_AA_580	1	79.5			
 F5	ILWE_AA_580	1	79.6			
 F6	ILWE_AA_580	1	79.7			
 F7	ILWE_AA_590	0				
 F8	ILWE_AA_590	0				
 F9	ILWE_AA_590	0				
 F10	ILWE_AA_590	1	79.5			
 F11	ILWE_AA_590	1	79.6			
 F12	ILWE_AA_590	1	79.7			
 G1	ILWE_AA_581	0				
 G2	ILWE_AA_581	1	79.0			
 G3	ILWE_AA_581	0				
 G4	ILWE_AA_581	1	79.5			

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 G5	ILWE_AA_581	1	79.6			
 G6	ILWE_AA_581	1	79.6			
 G7	ILWE_AA_591	0				
 G8	ILWE_AA_591	1	79.0			
 G9	ILWE_AA_591	0				
 G10	ILWE_AA_591	1	79.3			
 G11	ILWE_AA_591	1	79.4			
 G12	ILWE_AA_591	1	79.5			
 H1	NTC	0				
 H2	NTC	0				
 H3	NTC	0				
 H4	NTC	0				
 H5	NTC	0				
 H6	NTC	0				
 H7	water	0				
 H8	water	0				
 H9	water	0				
 H10	water	0				
 H11	water	0				
 H12	water	0				

Melting curve



Threshold 33%

