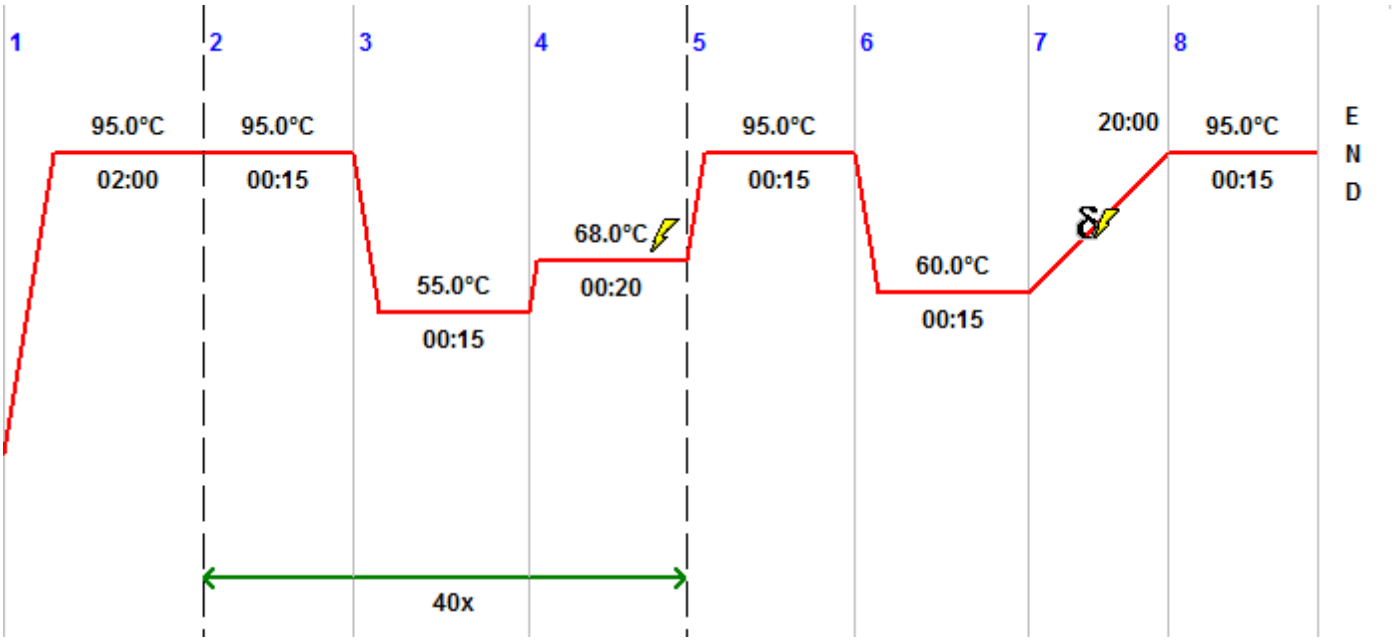
# Document information

| | | |
|---|---|---|
| Software: | realplex 2.2 | |
| File Name: | EPPENDORF\Svenja\ileumplate8_ne | |
| Printed by: | EPPENDORF | |
| Created: | Nov/22/2018 15:24 | |
| Serial No. Thermo Module: | 6325 30387 | |
| Serial No. realplex Module.: | 630011465 | |
| Acquisition Start Time: | EPPENDORF | Nov/22/2018 15:28 |
| Acquisition End Time: | EPPENDORF | Nov/22/2018 16:56 |
| Last updated: | EPPENDORF | Nov/06/2018 18:40 |
| Background: | Sarstedt-20µl | Sep/12/2011 10:28 |
| Color Calibration: | SYBR | Mar/12/2018 15:31 |
| ileumplate8_new | Quantification | Nov/22/2018 17:00 |
| | Melting Curve | Nov/22/2018 16:59 |
| 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

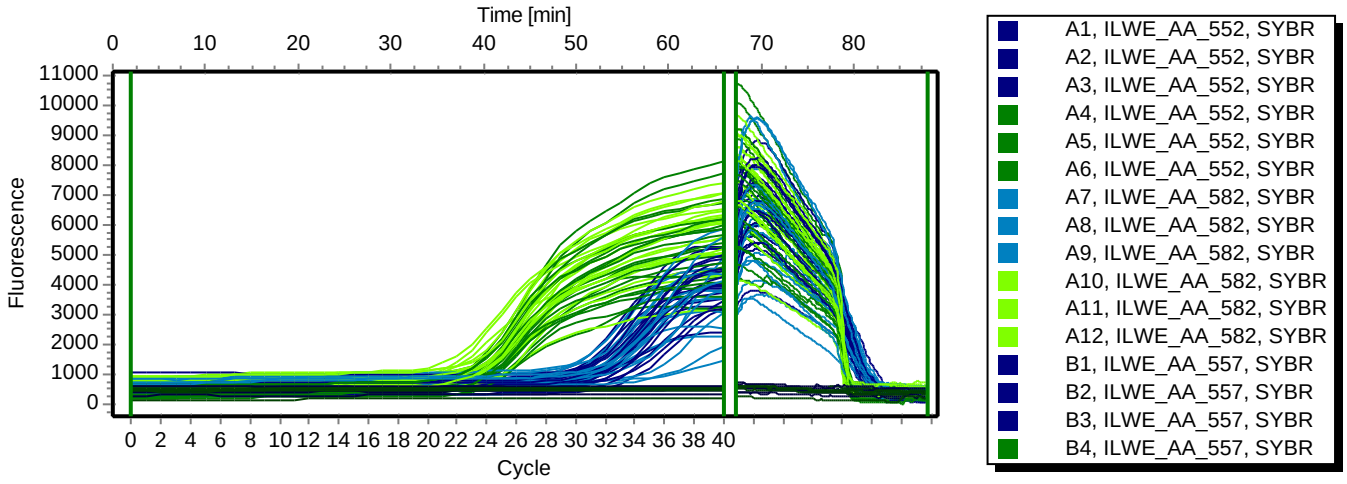



## Program Header

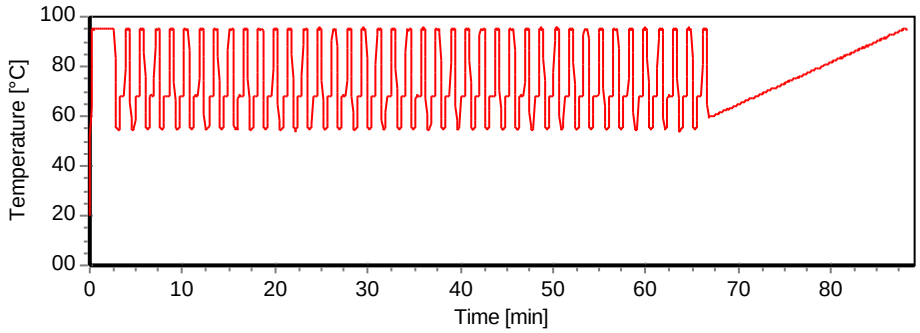
| | | | |
|---|---|---|---|
| Lid Temp | 105 °C | TSP Heated Lid | Yes |
| Temp. Mode | Standard | Switch off lid at low block temp | No |
| Impulse | No | Simulate Mastercycler gradient | No |

# Raw Data SYBR

## Fluorescence Profile




## Temperature Profile



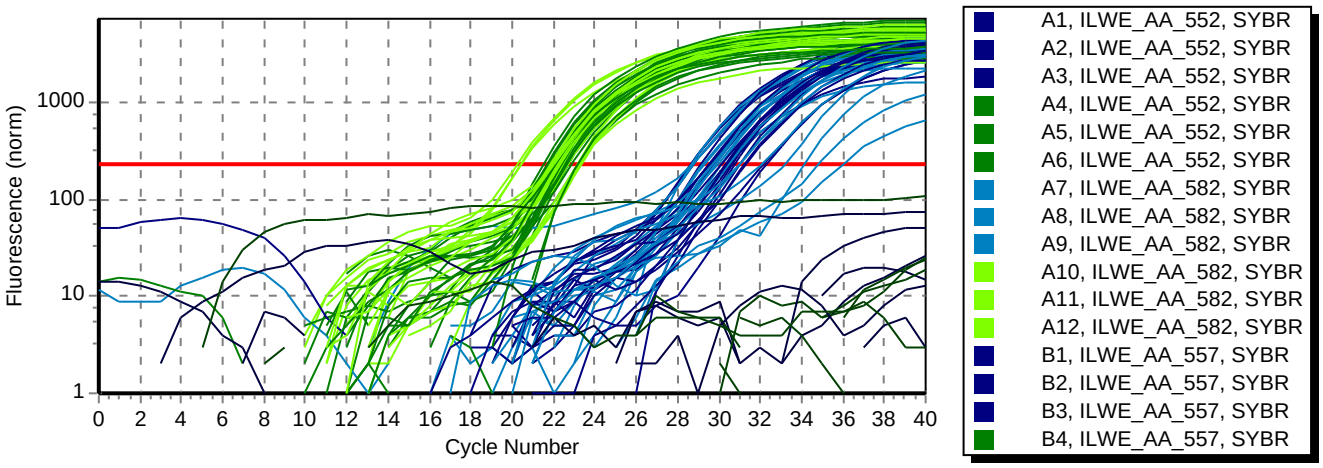
# Quantification SYBR

| 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 | 28.77 | 28.67 | 0.09 | 1.00 | | | eimeria |
| A2 | ILWE_AA_552 | 28.63 | 28.67 | 0.09 | 1.00 | | | eimeria |
| A3 | ILWE_AA_552 | 28.60 | 28.67 | 0.09 | 1.00 | | | eimeria |
| A4 | ILWE_AA_552 | 22.59 | 22.45 | 0.35 | 1.00 | | | mouse |
| A5 | ILWE_AA_552 | 22.06 | 22.45 | 0.35 | 1.00 | | | mouse |
| A6 | ILWE_AA_552 | 22.71 | 22.45 | 0.35 | 1.00 | | | mouse |
| A7 | ILWE_AA_582 | 29.70 | 29.22 | 0.52 | 1.00 | | | eimeria |
| A8 | ILWE_AA_582 | 28.68 | 29.22 | 0.52 | 1.00 | | | eimeria |
| A9 | ILWE_AA_582 | 29.29 | 29.22 | 0.52 | 1.00 | | | eimeria |
| A10 | ILWE_AA_582 | 22.37 | 22.37 | 0.30 | 1.00 | | | mouse |
| A11 | ILWE_AA_582 | 22.07 | 22.37 | 0.30 | 1.00 | | | mouse |
| A12 | ILWE_AA_582 | 22.67 | 22.37 | 0.30 | 1.00 | | | mouse |
| B1 | ILWE_AA_557 | 29.49 | 29.79 | 0.54 | 1.00 | | | eimeria |
| B2 | ILWE_AA_557 | 29.48 | 29.79 | 0.54 | 1.00 | | | eimeria |
| B3 | ILWE_AA_557 | 30.41 | 29.79 | 0.54 | 1.00 | | | eimeria |
| B4 | ILWE_AA_557 | 22.85 | 22.82 | 0.38 | 1.00 | | | mouse |
| B5 | ILWE_AA_557 | 22.42 | 22.82 | 0.38 | 1.00 | | | mouse |
| B6 | ILWE_AA_557 | 23.19 | 22.82 | 0.38 | 1.00 | | | mouse |
| B7 | ILWE_AA_584 | 28.65 | 29.25 | 0.94 | 1.00 | | | eimeria |
| B8 | ILWE_AA_584 | 28.76 | 29.25 | 0.94 | 1.00 | | | eimeria |
| B9 | ILWE_AA_584 | 30.33 | 29.25 | 0.94 | 1.00 | | | eimeria |
| B10 | ILWE_AA_584 | 20.40 | 20.35 | 0.11 | 1.00 | | | mouse |
| B11 | ILWE_AA_584 | 20.22 | 20.35 | 0.11 | 1.00 | | | mouse |
| B12 | ILWE_AA_584 | 20.43 | 20.35 | 0.11 | 1.00 | | | mouse |
| C1 | ILWE_AA_576 | 30.24 | 29.70 | 0.56 | 1.00 | | | eimeria |
| C2 | ILWE_AA_576 | 29.12 | 29.70 | 0.56 | 1.00 | | | eimeria |
| C3 | ILWE_AA_576 | 29.76 | 29.70 | 0.56 | 1.00 | | | eimeria |
| C4 | ILWE_AA_576 | 21.81 | 21.82 | 0.33 | 1.00 | | | mouse |
| C5 | ILWE_AA_576 | 21.50 | 21.82 | 0.33 | 1.00 | | | mouse |
| C6 | ILWE_AA_576 | 22.15 | 21.82 | 0.33 | 1.00 | | | mouse |
| C7 | ILWE_AA_586 | 30.04 | 30.05 | 0.29 | 1.00 | | | eimeria |
| C8 | ILWE_AA_586 | 29.77 | 30.05 | 0.29 | 1.00 | | | eimeria |
| C9 | ILWE_AA_586 | 30.34 | 30.05 | 0.29 | 1.00 | | | eimeria |
| C10 | ILWE_AA_586 | 22.30 | 22.33 | 0.20 | 1.00 | | | mouse |
| C11 | ILWE_AA_586 | 22.14 | 22.33 | 0.20 | 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 | 22.54 | 22.33 | 0.20 | 1.00 | | | mouse |
| D1 | ILWE_AA_577 | 32.29 | 31.32 | 0.85 | 1.00 | | | eimeria |
| D2 | ILWE_AA_577 | 30.72 | 31.32 | 0.85 | 1.00 | | | eimeria |
| D3 | ILWE_AA_577 | 30.95 | 31.32 | 0.85 | 1.00 | | | eimeria |
| D4 | ILWE_AA_577 | 22.63 | 22.73 | 0.39 | 1.00 | | | mouse |
| D5 | ILWE_AA_577 | 22.40 | 22.73 | 0.39 | 1.00 | | | mouse |
| D6 | ILWE_AA_577 | 23.16 | 22.73 | 0.39 | 1.00 | | | mouse |
| D7 | ILWE_AA_587 | 35.91 | 34.38 | 1.41 | 1.00 | | | eimeria |
| D8 | ILWE_AA_587 | 33.14 | 34.38 | 1.41 | 1.00 | | | eimeria |
| D9 | ILWE_AA_587 | 34.08 | 34.38 | 1.41 | 1.00 | | | eimeria |
| D10 | ILWE_AA_587 | 23.27 | 23.24 | 0.10 | 1.00 | | | mouse |
| D11 | ILWE_AA_587 | 23.13 | 23.24 | 0.10 | 1.00 | | | mouse |
| D12 | ILWE_AA_587 | 23.33 | 23.24 | 0.10 | 1.00 | | | mouse |
| E1 | ILWE_AA_579 | 32.11 | 30.83 | 1.11 | 1.00 | | | eimeria |
| E2 | ILWE_AA_579 | 30.32 | 30.83 | 1.11 | 1.00 | | | eimeria |
| E3 | ILWE_AA_579 | 30.08 | 30.83 | 1.11 | 1.00 | | | eimeria |
| E4 | ILWE_AA_579 | 22.08 | 22.20 | 0.25 | 1.00 | | | mouse |
| E5 | ILWE_AA_579 | 22.02 | 22.20 | 0.25 | 1.00 | | | mouse |
| E6 | ILWE_AA_579 | 22.49 | 22.20 | 0.25 | 1.00 | | | mouse |
| E7 | ILWE_AA_589 | 29.23 | 29.54 | 0.28 | 1.00 | | | eimeria |
| E8 | ILWE_AA_589 | 29.77 | 29.54 | 0.28 | 1.00 | | | eimeria |
| E9 | ILWE_AA_589 | 29.63 | 29.54 | 0.28 | 1.00 | | | eimeria |
| E10 | ILWE_AA_589 | 22.46 | 22.52 | 0.65 | 1.00 | | | mouse |
| E11 | ILWE_AA_589 | 21.90 | 22.52 | 0.65 | 1.00 | | | mouse |
| E12 | ILWE_AA_589 | 23.20 | 22.52 | 0.65 | 1.00 | | | mouse |
| F1 | ILWE_AA_580 | 31.30 | 30.81 | 0.43 | 1.00 | | | eimeria |
| F2 | ILWE_AA_580 | 30.61 | 30.81 | 0.43 | 1.00 | | | eimeria |
| F3 | ILWE_AA_580 | 30.51 | 30.81 | 0.43 | 1.00 | | | eimeria |
| F4 | ILWE_AA_580 | 22.54 | 22.68 | 0.43 | 1.00 | | | mouse |
| F5 | ILWE_AA_580 | 22.34 | 22.68 | 0.43 | 1.00 | | | mouse |
| F6 | ILWE_AA_580 | 23.17 | 22.68 | 0.43 | 1.00 | | | mouse |
| F7 | ILWE_AA_590 | 32.01 | 30.76 | 1.12 | 1.00 | | | eimeria |
| F8 | ILWE_AA_590 | 29.85 | 30.76 | 1.12 | 1.00 | | | eimeria |
| F9 | ILWE_AA_590 | 30.42 | 30.76 | 1.12 | 1.00 | | | eimeria |
| F10 | ILWE_AA_590 | 22.16 | 22.07 | 0.26 | 1.00 | | | mouse |
| F11 | ILWE_AA_590 | 21.78 | 22.07 | 0.26 | 1.00 | | | mouse |
| F12 | ILWE_AA_590 | 22.28 | 22.07 | 0.26 | 1.00 | | | mouse |
| G1 | ILWE_AA_581 | 31.22 | 30.35 | 0.85 | 1.00 | | | eimeria |
| G2 | ILWE_AA_581 | 30.32 | 30.35 | 0.85 | 1.00 | | | eimeria |

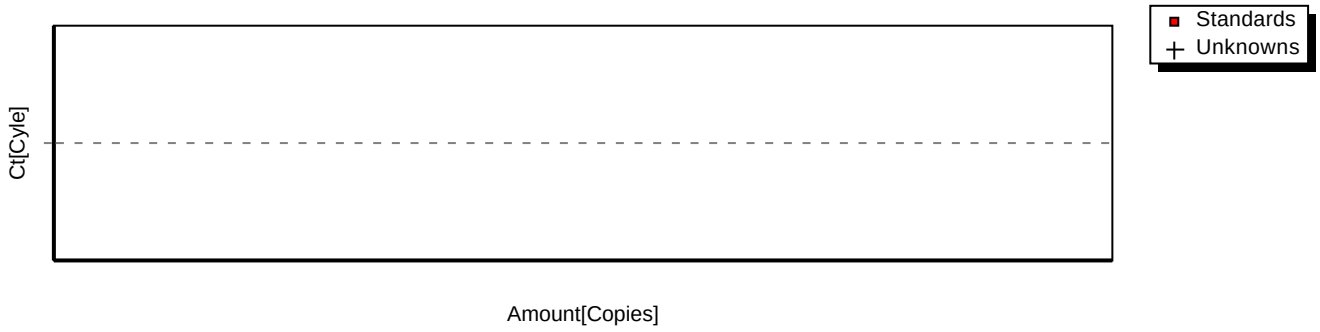
| Pos | Name | Ct SYBR | Ct Mean SYBR | Ct Dev. SYBR | Amount SYBR [Copies] | Amount Mean SYBR | Amount Dev. SYBR | Target SYBR |
|---|---|---|---|---|---|---|---|---|
| G3 | ILWE_AA_581 | 29.52 | 30.35 | 0.85 | 1.00 | | | eimeria |
| G4 | ILWE_AA_581 | 21.69 | 21.81 | 0.21 | 1.00 | | | mouse |
| G5 | ILWE_AA_581 | 21.68 | 21.81 | 0.21 | 1.00 | | | mouse |
| G6 | ILWE_AA_581 | 22.05 | 21.81 | 0.21 | 1.00 | | | mouse |
| G7 | ILWE_AA_591 | 34.77 | 32.24 | 2.19 | 1.00 | | | eimeria |
| G8 | ILWE_AA_591 | 30.95 | 32.24 | 2.19 | 1.00 | | | eimeria |
| G9 | ILWE_AA_591 | 30.99 | 32.24 | 2.19 | 1.00 | | | eimeria |
| G10 | ILWE_AA_591 | 21.87 | 21.90 | 0.07 | 1.00 | | | mouse |
| G11 | ILWE_AA_591 | 21.84 | 21.90 | 0.07 | 1.00 | | | mouse |
| G12 | ILWE_AA_591 | 21.97 | 21.90 | 0.07 | 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




| | |
|---|---|
| Threshold | 230 (Noiseband) |
| Baseline | automatic, Drift correction OFF |

## Standard curve




| | | | |
|---|---|---|---|
| Slope | - | R^2 | - |
| Y-Intercept | - | Efficiency | - |

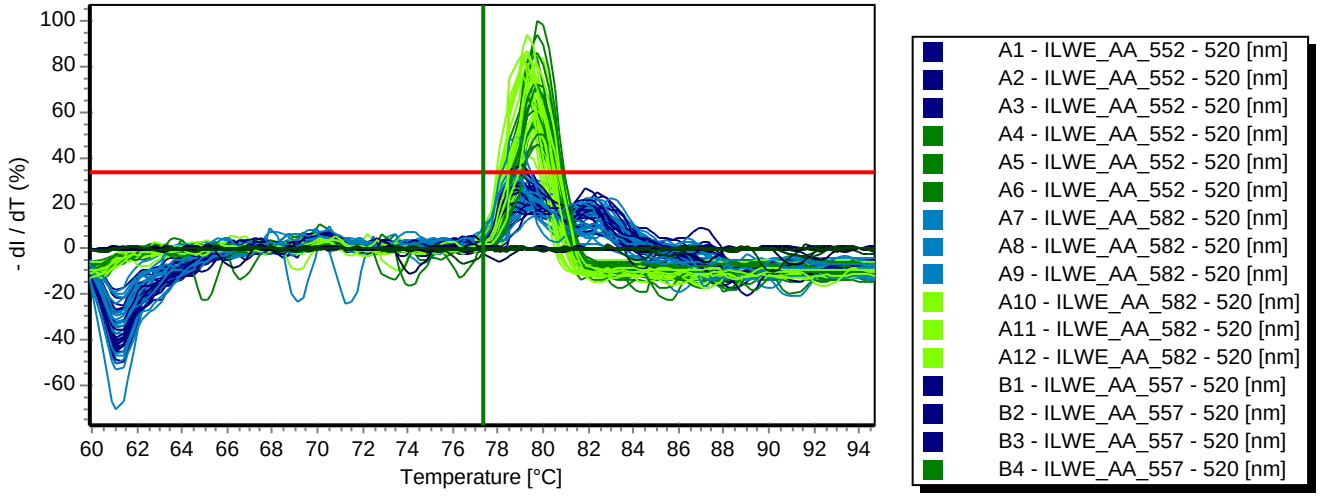
# Melting Curve SYBR

| 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 | 79.5 | | | |
| A5 | ILWE_AA_552 | 1 | 79.9 | | | |
| A6 | ILWE_AA_552 | 1 | 79.7 | | | |
| A7 | ILWE_AA_582 | 0 | | | | |
| A8 | ILWE_AA_582 | 0 | | | | |
| A9 | ILWE_AA_582 | 0 | | | | |
| A10 | ILWE_AA_582 | 1 | 79.6 | | | |
| A11 | ILWE_AA_582 | 1 | 79.8 | | | |
| A12 | ILWE_AA_582 | 1 | 79.9 | | | |
| B1 | ILWE_AA_557 | 0 | | | | |
| B2 | ILWE_AA_557 | 0 | | | | |
| B3 | ILWE_AA_557 | 0 | | | | |
| B4 | ILWE_AA_557 | 1 | 79.5 | | | |
| B5 | ILWE_AA_557 | 1 | 79.8 | | | |
| B6 | ILWE_AA_557 | 1 | 79.8 | | | |
| B7 | ILWE_AA_584 | 0 | | | | |
| B8 | ILWE_AA_584 | 1 | 79.0 | | | |
| B9 | ILWE_AA_584 | 0 | | | | |
| B10 | ILWE_AA_584 | 1 | 79.4 | | | |
| B11 | ILWE_AA_584 | 1 | 79.6 | | | |
| B12 | ILWE_AA_584 | 1 | 79.8 | | | |
| C1 | ILWE_AA_576 | 0 | | | | |
| C2 | ILWE_AA_576 | 1 | 79.1 | | | |
| C3 | ILWE_AA_576 | 1 | 78.9 | | | |
| C4 | ILWE_AA_576 | 1 | 79.2 | | | |
| C5 | ILWE_AA_576 | 1 | 79.5 | | | |
| C6 | ILWE_AA_576 | 1 | 79.7 | | | |
| 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 | 79.7 | | | |

| 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 | 1 | 79.0 | | | |
| D4 | ILWE_AA_577 | 1 | 79.5 | | | |
| D5 | ILWE_AA_577 | 1 | 79.7 | | | |
| D6 | ILWE_AA_577 | 1 | 79.6 | | | |
| 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 | 79.3 | | | |
| D12 | ILWE_AA_587 | 1 | 79.4 | | | |
| E1 | ILWE_AA_579 | 0 | | | | |
| E2 | ILWE_AA_579 | 0 | | | | |
| E3 | ILWE_AA_579 | 0 | | | | |
| E4 | ILWE_AA_579 | 1 | 79.5 | | | |
| E5 | ILWE_AA_579 | 1 | 79.7 | | | |
| 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 | 79.1 | | | |
| E11 | ILWE_AA_589 | 1 | 79.3 | | | |
| E12 | ILWE_AA_589 | 1 | 79.4 | | | |
| F1 | ILWE_AA_580 | 0 | | | | |
| F2 | ILWE_AA_580 | 0 | | | | |
| F3 | ILWE_AA_580 | 0 | | | | |
| F4 | ILWE_AA_580 | 1 | 79.6 | | | |
| F5 | ILWE_AA_580 | 1 | 79.8 | | | |
| F6 | ILWE_AA_580 | 1 | 79.8 | | | |
| F7 | ILWE_AA_590 | 0 | | | | |
| F8 | ILWE_AA_590 | 1 | 78.7 | | | |
| F9 | ILWE_AA_590 | 0 | | | | |
| F10 | ILWE_AA_590 | 1 | 79.1 | | | |
| F11 | ILWE_AA_590 | 1 | 79.3 | | | |
| F12 | ILWE_AA_590 | 1 | 79.4 | | | |
| G1 | ILWE_AA_581 | 0 | | | | |
| G2 | ILWE_AA_581 | 1 | 79.0 | | | |
| G3 | ILWE_AA_581 | 0 | | | | |
| G4 | ILWE_AA_581 | 1 | 79.7 | | | |

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| G5 | ILWE_AA_581 | 1 | 79.9 | | | |
| G6 | ILWE_AA_581 | 1 | 79.9 | | | |
| G7 | ILWE_AA_591 | 0 | | | | |
| G8 | ILWE_AA_591 | 1 | 78.8 | | | |
| G9 | ILWE_AA_591 | 1 | 78.7 | | | |
| G10 | ILWE_AA_591 | 1 | 79.5 | | | |
| G11 | ILWE_AA_591 | 1 | 79.7 | | | |
| G12 | ILWE_AA_591 | 1 | 79.8 | | | |
| 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%