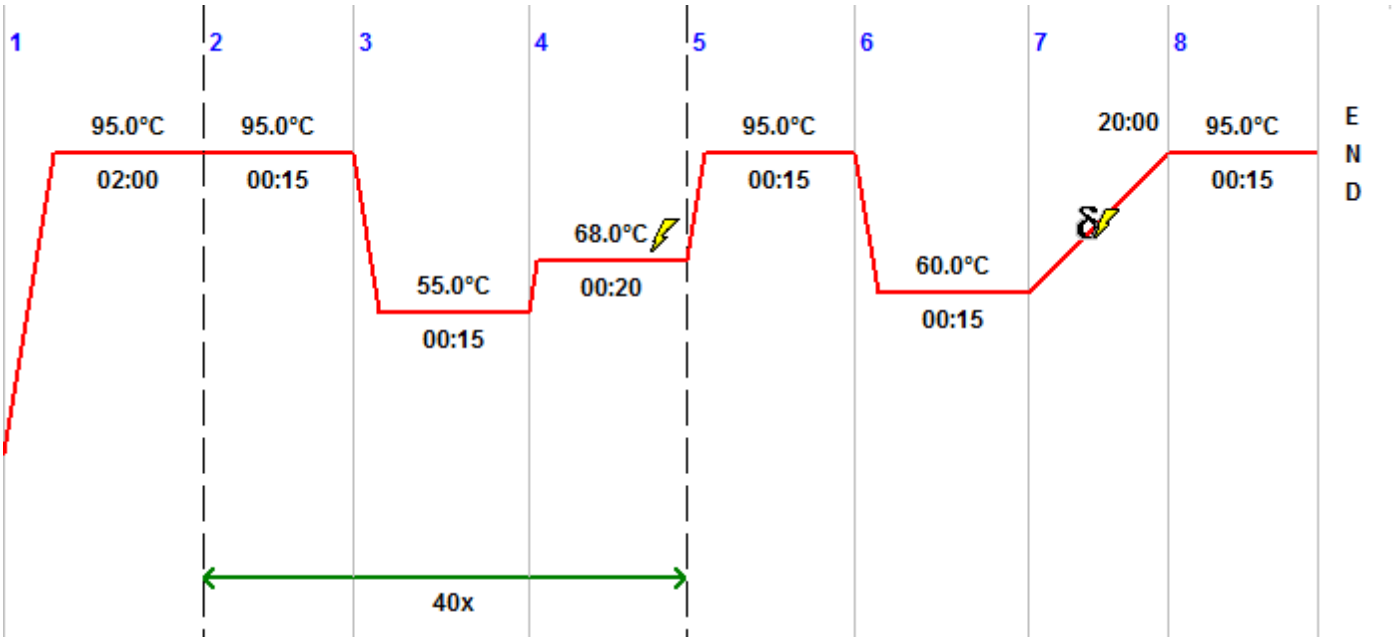
# Document information

| | | |
|---|---|---|
| Software: | realplex 2.2 | |
| File Name: | EPPENDORF\Svenja\cecum_plate12 | |
| Printed by: | EPPENDORF | |
| Created: | Feb/11/2019 11:42 | |
| Serial No. Thermo Module: | 6325 30387 | |
| Serial No. realplex Module.: | 630011465 | |
| Acquisition Start Time: | EPPENDORF | Feb/11/2019 11:46 |
| Acquisition End Time: | EPPENDORF | Feb/11/2019 13:14 |
| Last updated: | EPPENDORF | Dec/18/2018 14:10 |
| Background: | Sarstedt-20µl | Sep/12/2011 10:28 |
| Color Calibration: | SYBR | Mar/12/2018 15:31 |
| cecum_plate12 | Quantification | Feb/11/2019 13:45 |
| | Melting Curve | Feb/11/2019 13:43 |
| Inverted Data: | OFF | |
| Comment: | | |

## Plate layout

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

# PCR Program

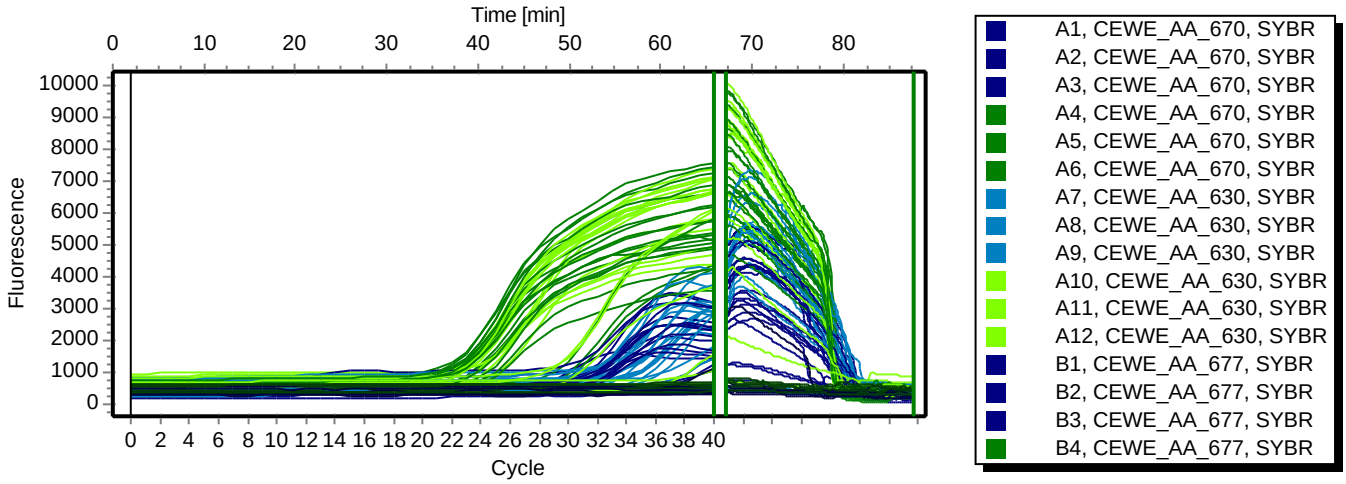



## Program Header

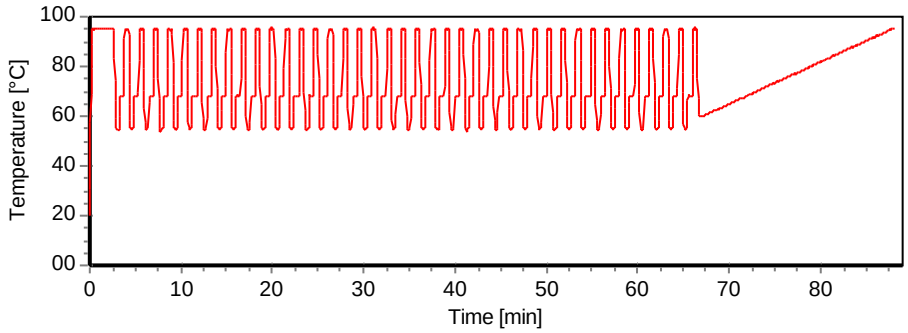
| | | | |
|---|---|---|---|
| Lid Temp | 105 °C | TSP Heated Lid | Yes |
| Temp. Mode | Standard | Switch off lid at low block temp | No |
| Impulse | No | Simulate Mastercycler gradient | No |

# Raw Data SYBR

## Fluorescence Profile




## Temperature Profile



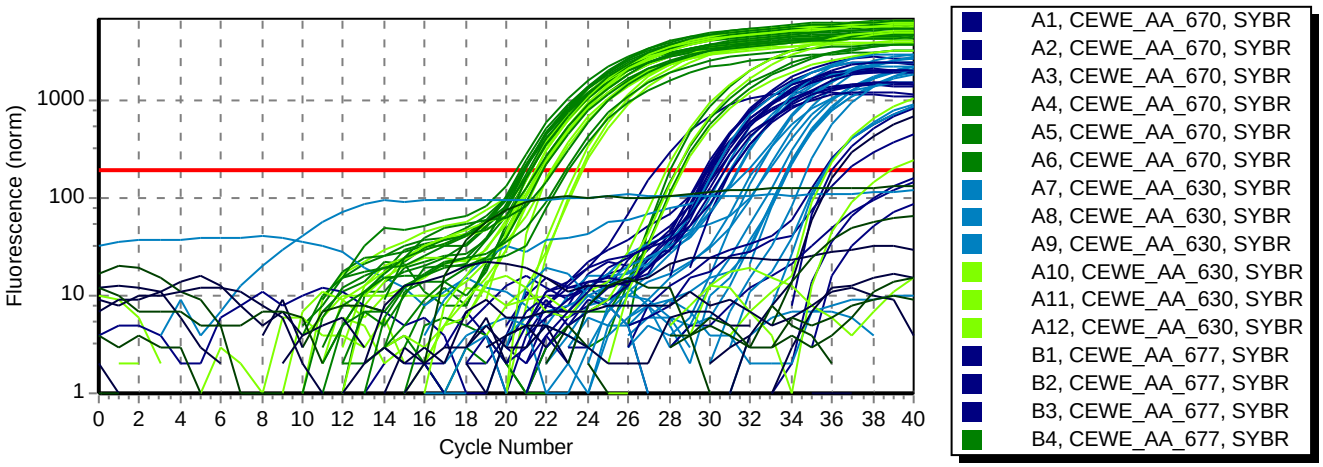
# Quantification SYBR

| Pos | Name | Ct SYBR | Ct Mean SYBR | Ct Dev. SYBR | Amount SYBR [Copies] | Amount Mean SYBR | Amount Dev. SYBR | Target SYBR |
|---|---|---|---|---|---|---|---|---|
| A1 | CEWE_AA_670 | 29.71 | 29.01 | 1.46 | 1.00 | | | eimeria |
| A2 | CEWE_AA_670 | 29.99 | 29.01 | 1.46 | 1.00 | | | eimeria |
| A3 | CEWE_AA_670 | 27.33 | 29.01 | 1.46 | 1.00 | | | eimeria |
| A4 | CEWE_AA_670 | 21.68 | 21.53 | 0.24 | 1.00 | | | mouse |
| A5 | CEWE_AA_670 | 21.25 | 21.53 | 0.24 | 1.00 | | | mouse |
| A6 | CEWE_AA_670 | 21.65 | 21.53 | 0.24 | 1.00 | | | mouse |
| A7 | CEWE_AA_630 | 33.73 | 33.78 | 0.07 | 1.00 | | | eimeria |
| A8 | CEWE_AA_630 | 33.85 | 33.78 | 0.07 | 1.00 | | | eimeria |
| A9 | CEWE_AA_630 | 33.74 | 33.78 | 0.07 | 1.00 | | | eimeria |
| A10 | CEWE_AA_630 | 21.48 | 21.50 | 0.32 | 1.00 | | | mouse |
| A11 | CEWE_AA_630 | 21.19 | 21.50 | 0.32 | 1.00 | | | mouse |
| A12 | CEWE_AA_630 | 21.82 | 21.50 | 0.32 | 1.00 | | | mouse |
| B1 | CEWE_AA_677 | 30.08 | 29.94 | 0.15 | 1.00 | | | eimeria |
| B2 | CEWE_AA_677 | 29.79 | 29.94 | 0.15 | 1.00 | | | eimeria |
| B3 | CEWE_AA_677 | 29.94 | 29.94 | 0.15 | 1.00 | | | eimeria |
| B4 | CEWE_AA_677 | 20.88 | 20.81 | 0.09 | 1.00 | | | mouse |
| B5 | CEWE_AA_677 | 20.70 | 20.81 | 0.09 | 1.00 | | | mouse |
| B6 | CEWE_AA_677 | 20.83 | 20.81 | 0.09 | 1.00 | | | mouse |
| B7 | CEWE_AA_632 | 33.83 | 33.35 | 0.52 | 1.00 | | | eimeria |
| B8 | CEWE_AA_632 | 32.79 | 33.35 | 0.52 | 1.00 | | | eimeria |
| B9 | CEWE_AA_632 | 33.44 | 33.35 | 0.52 | 1.00 | | | eimeria |
| B10 | CEWE_AA_632 | 23.44 | 23.60 | 0.15 | 1.00 | | | mouse |
| B11 | CEWE_AA_632 | 23.62 | 23.60 | 0.15 | 1.00 | | | mouse |
| B12 | CEWE_AA_632 | 23.74 | 23.60 | 0.15 | 1.00 | | | mouse |
| C1 | CEWE_AA_652? | 36.02 | | | 1.00 | | | eimeria |
| C2 | CEWE_AA_652? | | | | 1.00 | | | eimeria |
| C3 | CEWE_AA_652? | | | | 1.00 | | | eimeria |
| C4 | CEWE_AA_652? | 28.55 | 28.30 | 0.27 | 1.00 | | | mouse |
| C5 | CEWE_AA_652? | 28.01 | 28.30 | 0.27 | 1.00 | | | mouse |
| C6 | CEWE_AA_652? | 28.33 | 28.30 | 0.27 | 1.00 | | | mouse |
| C7 | CEWE_AA_633 | 31.39 | 31.03 | 0.34 | 1.00 | | | eimeria |
| C8 | CEWE_AA_633 | 30.72 | 31.03 | 0.34 | 1.00 | | | eimeria |
| C9 | CEWE_AA_633 | 30.99 | 31.03 | 0.34 | 1.00 | | | eimeria |
| C10 | CEWE_AA_633 | 21.19 | 21.36 | 0.24 | 1.00 | | | mouse |
| C11 | CEWE_AA_633 | 21.27 | 21.36 | 0.24 | 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 | CEWE_AA_633 | 21.63 | 21.36 | 0.24 | 1.00 | | | mouse |
| D1 | CEWE_AA_564 | 30.31 | 30.02 | 0.25 | 1.00 | | | eimeria |
| D2 | CEWE_AA_564 | 29.86 | 30.02 | 0.25 | 1.00 | | | eimeria |
| D3 | CEWE_AA_564 | 29.91 | 30.02 | 0.25 | 1.00 | | | eimeria |
| D4 | CEWE_AA_564 | 20.84 | 20.80 | 0.30 | 1.00 | | | mouse |
| D5 | CEWE_AA_564 | 20.48 | 20.80 | 0.30 | 1.00 | | | mouse |
| D6 | CEWE_AA_564 | 21.08 | 20.80 | 0.30 | 1.00 | | | mouse |
| D7 | CEWE_AA_641 | 32.87 | 32.32 | 0.50 | 1.00 | | | eimeria |
| D8 | CEWE_AA_641 | 31.91 | 32.32 | 0.50 | 1.00 | | | eimeria |
| D9 | CEWE_AA_641 | 32.18 | 32.32 | 0.50 | 1.00 | | | eimeria |
| D10 | CEWE_AA_641 | 21.75 | 21.94 | 0.31 | 1.00 | | | mouse |
| D11 | CEWE_AA_641 | 21.78 | 21.94 | 0.31 | 1.00 | | | mouse |
| D12 | CEWE_AA_641 | 22.29 | 21.94 | 0.31 | 1.00 | | | mouse |
| E1 | CEWE_AA_IL563 | 30.17 | 30.55 | 0.46 | 1.00 | | | eimeria |
| E2 | CEWE_AA_IL563 | 31.06 | 30.55 | 0.46 | 1.00 | | | eimeria |
| E3 | CEWE_AA_IL563 | 30.40 | 30.55 | 0.46 | 1.00 | | | eimeria |
| E4 | CEWE_AA_IL563 | 21.24 | 21.01 | 0.20 | 1.00 | | | mouse |
| E5 | CEWE_AA_IL563 | 20.92 | 21.01 | 0.20 | 1.00 | | | mouse |
| E6 | CEWE_AA_IL563 | 20.86 | 21.01 | 0.20 | 1.00 | | | mouse |
| E7 | CEWE_AA_642 | 32.36 | 31.34 | 1.07 | 1.00 | | | eimeria |
| E8 | CEWE_AA_642 | 31.41 | 31.34 | 1.07 | 1.00 | | | eimeria |
| E9 | CEWE_AA_642 | 30.23 | 31.34 | 1.07 | 1.00 | | | eimeria |
| E10 | CEWE_AA_642 | 21.75 | 21.81 | 0.38 | 1.00 | | | mouse |
| E11 | CEWE_AA_642 | 21.46 | 21.81 | 0.38 | 1.00 | | | mouse |
| E12 | CEWE_AA_642 | 22.22 | 21.81 | 0.38 | 1.00 | | | mouse |
| F1 | CEWE_AA_627 | 35.59 | 36.19 | 0.85 | 1.00 | | | eimeria |
| F2 | CEWE_AA_627 | 36.80 | 36.19 | 0.85 | 1.00 | | | eimeria |
| F3 | CEWE_AA_627 | | 36.19 | 0.85 | 1.00 | | | eimeria |
| F4 | CEWE_AA_627 | 22.87 | 22.74 | 0.36 | 1.00 | | | mouse |
| F5 | CEWE_AA_627 | 22.33 | 22.74 | 0.36 | 1.00 | | | mouse |
| F6 | CEWE_AA_627 | 23.01 | 22.74 | 0.36 | 1.00 | | | mouse |
| F7 | CEWE_AA_599(ce | 35.69 | 35.38 | 0.55 | 1.00 | | | eimeria |
| F8 | CEWE_AA_599(ce | 35.71 | 35.38 | 0.55 | 1.00 | | | eimeria |
| F9 | CEWE_AA_599(ce | 34.74 | 35.38 | 0.55 | 1.00 | | | eimeria |
| F10 | CEWE_AA_599(ce | 28.35 | 28.28 | 0.41 | 1.00 | | | mouse |
| F11 | CEWE_AA_599(ce | 27.84 | 28.28 | 0.41 | 1.00 | | | mouse |
| F12 | CEWE_AA_599(ce | 28.65 | 28.28 | 0.41 | 1.00 | | | mouse |
| G1 | CEWE_AA_629 | 31.07 | 30.77 | 0.28 | 1.00 | | | eimeria |
| G2 | CEWE_AA_629 | 30.50 | 30.77 | 0.28 | 1.00 | | | eimeria |

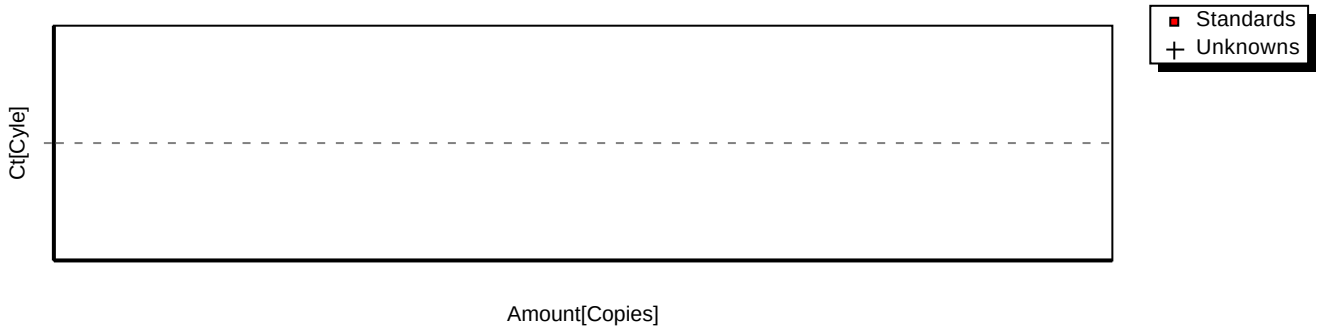
| Pos | Name | Ct SYBR | Ct Mean SYBR | Ct Dev. SYBR | Amount SYBR [Copies] | Amount Mean SYBR | Amount Dev. SYBR | Target SYBR |
|---|---|---|---|---|---|---|---|---|
| G3 | CEWE_AA_629 | 30.73 | 30.77 | 0.28 | 1.00 | | | eimeria |
| G4 | CEWE_AA_629 | 21.56 | 21.54 | 0.32 | 1.00 | | | mouse |
| G5 | CEWE_AA_629 | 21.22 | 21.54 | 0.32 | 1.00 | | | mouse |
| G6 | CEWE_AA_629 | 21.85 | 21.54 | 0.32 | 1.00 | | | mouse |
| G7 | CEWE_AA_000 | | | | 1.00 | | | eimeria |
| G8 | CEWE_AA_000 | | | | 1.00 | | | eimeria |
| G9 | CEWE_AA_000 | | | | 1.00 | | | eimeria |
| G10 | CEWE_AA_000 | | 37.33 | 2.20 | 1.00 | | | mouse |
| G11 | CEWE_AA_000 | 38.88 | 37.33 | 2.20 | 1.00 | | | mouse |
| G12 | CEWE_AA_000 | 35.78 | 37.33 | 2.20 | 1.00 | | | mouse |
| H1 | NTC | - | | | - | | | eimeria |
| H2 | NTC | 36.30 | | | - | | | 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 | 193 (Noiseband) |
| Baseline | automatic, Drift correction OFF |

## Standard curve




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

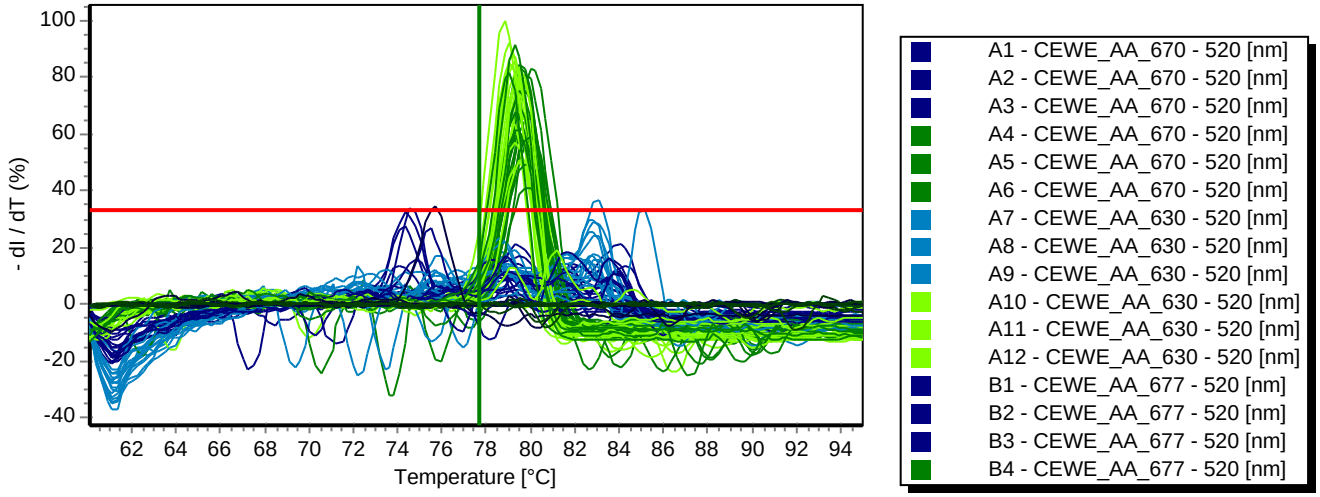
# Melting Curve SYBR

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| A1 | CEWE_AA_670 | 0 | | | | |
| A2 | CEWE_AA_670 | 0 | | | | |
| A3 | CEWE_AA_670 | 0 | | | | |
| A4 | CEWE_AA_670 | 1 | 79.9 | | | |
| A5 | CEWE_AA_670 | 1 | 80.1 | | | |
| A6 | CEWE_AA_670 | 1 | 80.0 | | | |
| A7 | CEWE_AA_630 | 0 | | | | |
| A8 | CEWE_AA_630 | 0 | | | | |
| A9 | CEWE_AA_630 | 0 | | | | |
| A10 | CEWE_AA_630 | 1 | 79.6 | | | |
| A11 | CEWE_AA_630 | 1 | 79.7 | | | |
| A12 | CEWE_AA_630 | 1 | 79.9 | | | |
| B1 | CEWE_AA_677 | 0 | | | | |
| B2 | CEWE_AA_677 | 0 | | | | |
| B3 | CEWE_AA_677 | 0 | | | | |
| B4 | CEWE_AA_677 | 1 | 79.7 | | | |
| B5 | CEWE_AA_677 | 1 | 79.9 | | | |
| B6 | CEWE_AA_677 | 1 | 79.9 | | | |
| B7 | CEWE_AA_632 | 0 | | | | |
| B8 | CEWE_AA_632 | 0 | | | | |
| B9 | CEWE_AA_632 | 0 | | | | |
| B10 | CEWE_AA_632 | 1 | 79.3 | | | |
| B11 | CEWE_AA_632 | 1 | 79.4 | | | |
| B12 | CEWE_AA_632 | 1 | 79.5 | | | |
| C1 | CEWE_AA_652? | 0 | | | | |
| C2 | CEWE_AA_652? | 0 | | | | |
| C3 | CEWE_AA_652? | 0 | | | | |
| C4 | CEWE_AA_652? | 1 | 79.6 | | | |
| C5 | CEWE_AA_652? | 1 | 79.8 | | | |
| C6 | CEWE_AA_652? | 1 | 79.8 | | | |
| C7 | CEWE_AA_633 | 0 | | | | |
| C8 | CEWE_AA_633 | 1 | 83.0 | | | |
| C9 | CEWE_AA_633 | 0 | | | | |
| C10 | CEWE_AA_633 | 1 | 79.2 | | | |
| C11 | CEWE_AA_633 | 1 | 79.3 | | | |
| C12 | CEWE_AA_633 | 1 | 79.5 | | | |

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| D1 | CEWE_AA_564 | 0 | | | | |
| D2 | CEWE_AA_564 | 0 | | | | |
| D3 | CEWE_AA_564 | 0 | | | | |
| D4 | CEWE_AA_564 | 1 | 79.4 | | | |
| D5 | CEWE_AA_564 | 1 | 79.6 | | | |
| D6 | CEWE_AA_564 | 1 | 79.5 | | | |
| D7 | CEWE_AA_641 | 0 | | | | |
| D8 | CEWE_AA_641 | 0 | | | | |
| D9 | CEWE_AA_641 | 0 | | | | |
| D10 | CEWE_AA_641 | 1 | 78.8 | | | |
| D11 | CEWE_AA_641 | 1 | 79.1 | | | |
| D12 | CEWE_AA_641 | 1 | 79.2 | | | |
| E1 | CEWE_AA_IL563 | 0 | | | | |
| E2 | CEWE_AA_IL563 | 0 | | | | |
| E3 | CEWE_AA_IL563 | 0 | | | | |
| E4 | CEWE_AA_IL563 | 1 | 79.4 | | | |
| E5 | CEWE_AA_IL563 | 1 | 79.6 | | | |
| E6 | CEWE_AA_IL563 | 1 | 79.5 | | | |
| E7 | CEWE_AA_642 | 0 | | | | |
| E8 | CEWE_AA_642 | 0 | | | | |
| E9 | CEWE_AA_642 | 0 | | | | |
| E10 | CEWE_AA_642 | 1 | 79.1 | | | |
| E11 | CEWE_AA_642 | 1 | 79.2 | | | |
| E12 | CEWE_AA_642 | 1 | 79.3 | | | |
| F1 | CEWE_AA_627 | 1 | 74.6 | | | |
| F2 | CEWE_AA_627 | 0 | | | | |
| F3 | CEWE_AA_627 | 0 | | | | |
| F4 | CEWE_AA_627 | 1 | 79.9 | | | |
| F5 | CEWE_AA_627 | 1 | 80.0 | | | |
| F6 | CEWE_AA_627 | 1 | 79.9 | | | |
| F7 | CEWE_AA_599(cewe | 0 | | | | |
| F8 | CEWE_AA_599(cewe | 0 | | | | |
| F9 | CEWE_AA_599(cewe | 0 | | | | |
| F10 | CEWE_AA_599(cewe | 1 | 79.4 | | | |
| F11 | CEWE_AA_599(cewe | 1 | 79.5 | | | |
| F12 | CEWE_AA_599(cewe | 1 | 79.6 | | | |
| G1 | CEWE_AA_629 | 0 | | | | |
| G2 | CEWE_AA_629 | 0 | | | | |
| G3 | CEWE_AA_629 | 0 | | | | |
| G4 | CEWE_AA_629 | 1 | 79.0 | | | |

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| G5 | CEWE_AA_629 | 1 | 79.3 | | | |
| G6 | CEWE_AA_629 | 1 | 79.4 | | | |
| G7 | CEWE_AA_000 | 0 | | | | |
| G8 | CEWE_AA_000 | 0 | | | | |
| G9 | CEWE_AA_000 | 0 | | | | |
| G10 | CEWE_AA_000 | 0 | | | | |
| G11 | CEWE_AA_000 | 0 | | | | |
| G12 | CEWE_AA_000 | 0 | | | | |
| H1 | NTC | 0 | | | 75.7 | |
| H2 | NTC | 1 | 75.7 | | 75.7 | 0.0 |
| H3 | NTC | 0 | | | 75.7 | |
| 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%