PCR: Polymerase Chain Reaction

30 - 40 cycles of 3 steps:

Step 1: denaturation
1 minute 94 °C

Step 2: annealing
45 seconds 54 °C
forward and reverse primers!!!

Step 3: extension
2 minutes 72 °C
only dNTP's

Exponential amplification

2\(^2\) = 4 copies
2\(^3\) = 8 copies
2\(^4\) = 16 copies
2\(^5\) = 32 copies
2\(^{36}\) = 68 billion copies

(Andy Vierstraete 1999)