

TOUCHDOWN PCR

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Abstract

This is the protocol for the touchdown PCR assay

Citation: Mauricio Durigan TOUCHDOWN PCR. **protocols.io**

dx.doi.org/10.17504/protocols.io.nyzdfx6

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Before start

The assay has been optimized and validated for the Bio-rad C1000 Touch Thermocycler.

Protocol

Cycling Parameters

Step 1.

Step 2.

94 °C 2 min

Step 3.

94 °C 1 min

Step 4.

65 °C (-1 °C per cycle) 1 min

Step 5.

72 °C 2 min

Step 6.

94 °C 1 min

Step 7.

65 °C (-1 °C per cycle) 1 min

Step 8.

72 °C 2 min

Step 9.

Go to step 2, 9 times

Step 10.

94 °C 1 min

Step 11.

55 °C 1 min

Step 12.

72 °C 2 min

Step 13.

Go to step 9, 17 times

Step 14.

72 °C 7 min

Step 15.

15 °C FOREVER

Step 16.

End

Adapted from: Don RH, Cox PT, Wainwright BJ, Baker K, Mattick JS. "Touchdown" PCR to circumvent spurious priming during gene amplification. Nucleic Acids Res. 1991;19: 4008.
doi:10.1093/nar/19.14.4008