Medix Biochemica

Benchmarking data for HiDi® Taq DNA polymerase (#9201)

Mutation detection test: BRAF c.1799**T>A** (V600E), rs113488022, homo sapiens

target sequence: 5'...ATAGGTGATTTTGGTCTAGCTACAG**T/A**GAAATCTCGATG...3'
forward primer: 5'-GGTGATTTTGGTCTAGCTACAGA-3'

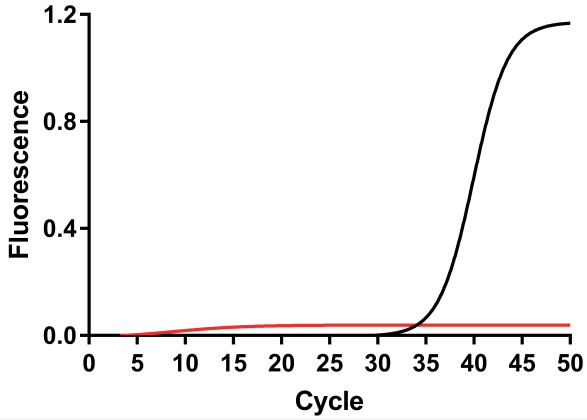
reverse primer: 5'-ACCATCCACAAAATGGATCCA-3'
hydrolysis probe: 5'-ROX-TCGATGGAGTGGGTCCCATCAGTTTG-BMNQ590-3'

PCR protocol:
95°C - 2 min (initial denaturation)
95°C - 10 sec
59°C - 10 sec
72°C - 30 sec (50 cycles)

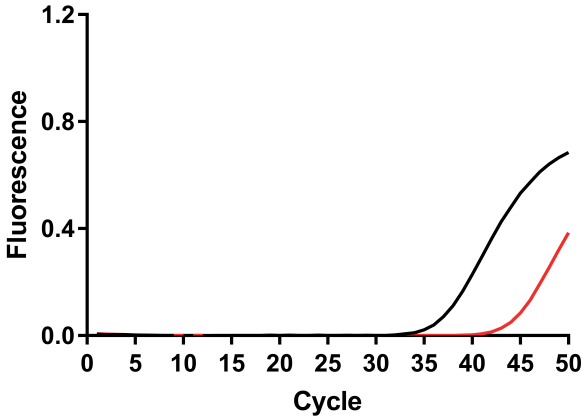
Reaction buffers and final DNA polymerase concentrations were applied according to manufacturer recommendations.

black curve - positive mutation
red curve - wildtype (mismatching primer at 3'-end)

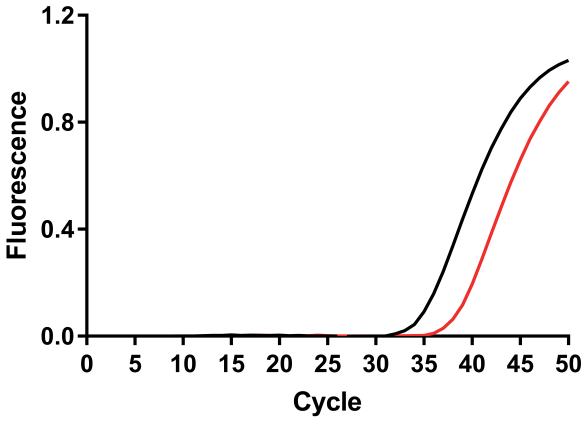
HiDi® Taq DNA polymerase
(Medix Biochemica, #9201)



Taq DNA Polymerase
Hot Start Version (TaKaRa, #R007)



GoTaq® hot start
DNA Polymerase (Promega, #M5001)



HiDi® Taq DNA polymerase is a highly selective DNA polymerase variant, specially evolved for all assays in which high single nucleotide discrimination is required, e.g. allele specific PCR, mutation detection and genotyping.

HiDi® Taq DNA polymerase efficiently discriminates matched primers from those that have a mismatch at the 3'-terminus.
It supersedes competitor products in signal generation and discrimination.