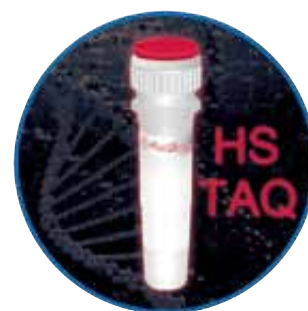


# **FastGene® DNA HotStart Polymerase**

The FastGene® HotStart Polymerase is combined with a proprietary antibody that inactivates the enzyme until the first denaturation step. This eliminates spurious amplification products resulting from non-specific priming events during reaction setup and initiation, and increases overall reaction efficiency and sensitivity. The reaction buffer does not include  $MgCl_2$ . It is included in the kit as a separate vial.



## Applications

- High throughput PCR
- Amplification of low copy DNA templates
- Multiplex PCR
- Specific amplification of complex templates
- RT-PCR
- CF-PCR (chromosome-specific DNA sequences known as genetic markers or small tandem repeats (STRs)).

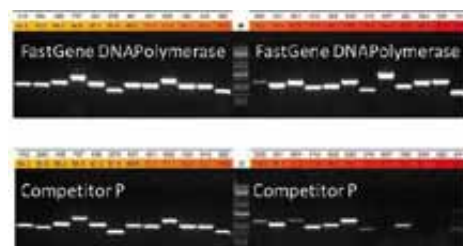


Fig. 3: Reactions (25  $\mu$ l) were set up according to manufacturer's instructions, with 20 ng of hgDNA as template, and 0.5  $\mu$ M of each primer. DMSO was included at a final concentration of 5%. PCR was performed for a total of 35 cycles.

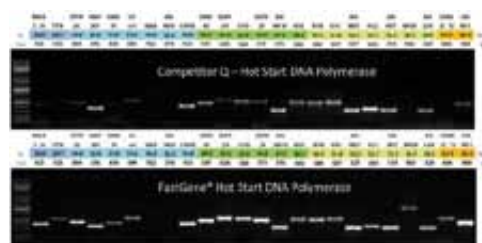


Fig. 4: Reactions (25  $\mu$ l) were set up according to manufacturer's instructions, with 25 ng of hgDNA as template, and 0.5  $\mu$ M of each primer. Qiagen Q-solution was included at a final concentration of 1X. PCR was performed for a total of 35 cycles.

## Ordering Information

Cat. No.	Product	Content
LS20	FastGene® TAQ DNA polymerase	100 Units
LS21	FastGene® TAQ DNA polymerase	500 Units
LS22	FastGene® TAQ DNA polymerase	2000 Units
LS23	FastGene® HotStart TAQ DNA polymerase	100 Units
LS24	FastGene® HotStart TAQ DNA polymerase	250 Units
LS25	FastGene® HotStart TAQ DNA polymerase	1000 Units
LS26	FastGene® TAQ Ready Mix PCR Kit	50 x 50 $\mu$ l rxns
LS27	FastGene® TAQ Ready Mix PCR Kit	250 x 50 $\mu$ l rxns

