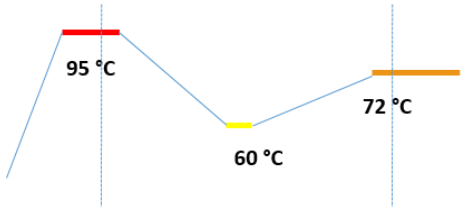
AMPLIQON
PCR ENZYMES & REAGENTS

Fast PCR protocol:

All Ampliqon Taq DNA Polymerases and Taq master mixes

90 min



3-step Standard PCR protocol

PCR program for 3-step Standard PCR – 90 min total

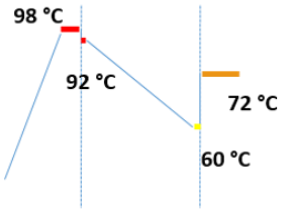
Cycler step	Temperature	Duration	Cycles
Initial heating	95 °C	3 min.	1
Denaturation	95 °C	30 sec.	
Annealing*	60 °C	30 sec.	30
Extension	72 °C	30 sec.	
Final extension	72 °C	5 min.	1

** the annealing temperature depends on the primer set*

SAVE 1 HOUR

Save time - just by changing PCR cycler settings!

31 min



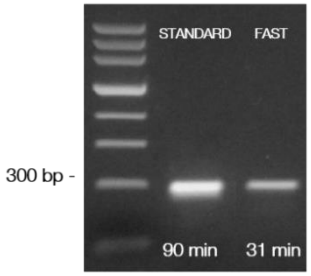
2-step Fast PCR protocol

PCR program for 2-step Fast PCR – 31 min total

Cycler step	Temperature	Duration	Cycles
Initial heating	98 °C	40 sec.	1
Denaturation	92 °C	2 sec.	
Extension*	60 °C	2 sec.	30
Final extension	72 °C	20 sec.	1

** the extension temperature depends on the primer set. For fast PCR choose highest possible Tm values*

λ DNA
Taq DNA Polymerase



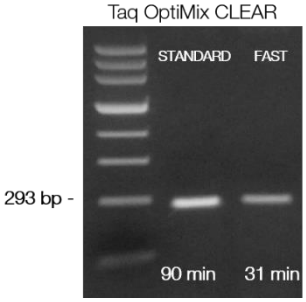
Amplification of λ DNA using Taq DNA Polymerase – Experimental setup

Reaction mix*	
Ammonium buffer	1x
dNTP mix	0,2 mM each
$MgCl_2$	1,5 mM
Primers	0,2 µM
λ DNA	1 ng
Taq DNA polymerase	0.5 – 1U

** H_2O up to a total volume of 25 µl*

ID	Primer sequence (5'-3')	Length
LAM300-F	ACGGATAGAAACTGCCGGTCAGGACA	300 bp
LAM300-R	GTTATCGAAATCAGCCACAGGGC	

Genomic DNA
Taq OptiMix CLEAR



Amplification of gDNA using 2x Taq OptiMix CLEAR - Experimental setup

Reaction mix*	
Taq OptiMix	1x
Primers	0,2 µM
gDNA	20 ng

** H_2O up to a total volume of 25 µl*

ID	Primer sequence (5'-3')	Length
ENG9-F	AATGGCTGTGACTTGGGACCCCTG	293 bp
ENG9-R	GCACCAACCAGGCTGGTCCTGATA	

Please require our Application note for Fast PCR: "**Additional reduction of PCR run time – three approaches**"

Ampliqon A/S, Stenhuggervej 22, DK-5230 Odense M, Denmark. Phone: +45 70201169 Fax: +45 70201179 info@ampliqon.com www.ampliqon.com

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