

## AQ90 HIGH FIDELITY DNA POLYMERASE 2x MASTER MIX

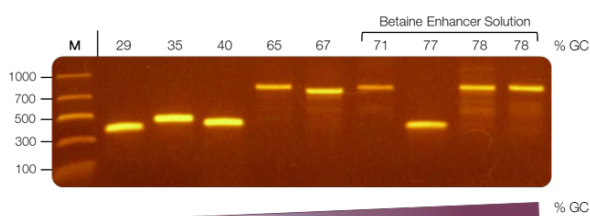


### AQ90 High Fidelity DNA Polymerase 2x Master Mix

- All-in-one 2x master mix for great convenience
- High Fidelity – measured up to 50x *Taq* DNA Polymerase
- Robust and reliable amplification
- 3' → 5' proofreading exonuclease activity.
- Good coverage on difficult DNA templates with low to high GC content
- Long range capability: 8.5 kb for gDNA and ≤12 kb for λDNA

The AQ90 master mix performs robust amplification of a vast range of difficult targets, including those up to 12.5 kb and with high to low GC content. The fidelity of the polymerase has been measured up 50x *Taq* DNA Polymerase. This master mix is recommended for cloning, mutagenesis and NGS applications.

### Robust Amplification



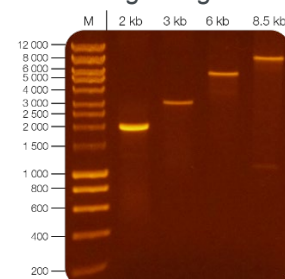
Robust amplification is observed using AQ90 High Fidelity DNA Polymerase nine human genomic DNA targets with low to high GC content. Amplification of the targets 71 – 78% GC was only successful when Betaine Enhancer Solution was added to the master mix.

### AQ90 High Fidelity DNA Polymerase



Inspiration for the name of the AQ90 High Fidelity DNA polymerase was taken from several places: Its key features (Accuracy), its manufacturer (Ampliqon) and lastly from the molecular weight of the enzyme (90 kDa).

### Long Range



Amplification of long DNA targets. Four different targets of human genomic DNA ranging from 2 kb and up to 8.5 kb was used for this study.

	Size Reaction size: 25 µl	Content	Cat #
AQ90 High Fidelity DNA Polymerase 2x Master Mix 2 mM MgCl <sub>2</sub> final	100 Reactions 500 Reactions 2500 Reactions 5000 Reactions	2 x 1.25 ml 10 x 1.25 ml 50 x 1.25 ml 25 x 5 ml	A470701 A470703 A470706 A470707
Betaine Enhancer Solution 5 M		5 x 1 ml	A351104