

## ReproFast Polymerase

The Genaxxon BioScience ReproFast DNA-Polymerase is a thermostable enzyme possessing 5'-3' DNA polymerase and 3'-5' proof reading exonuclease activities. The enzymes provide extremely high fidelity and a high efficiency. Compared to *Pfunds* DNA polymerase, ReproFast provides high overall performance, including shorter extension times, higher yield and greater target length capability. Therefore ReproFast is especially suitable for robust amplification of longer targets.

**M3003.0100** ReproFast 1 x 100 U **42.00 €**

**M3003.0250** ReproFast 1 x 250 U **85.00 €**

**M3003.1250** ReproFast 5 x 250 U **335.00 €**

## ReproHot Polymerase

ReproHot is a mixture of Taq polymerase plus a proof-reading polymerase and a monoclonal antibody, which blocks polymerase activity prior to heating. The complex prevents primer-dimer and other artifacts resulting from unspecific primer binding. The antibody is inactivated while heating up above 75 °C, requiring no prolonged first heating step prior to cycling. The combined hotstart and proof-reading feature leads to highly specific and correct amplicons.

**M3012.0250** ReproHot 1 x 250 U **109.50 €**

**M3012.1000** ReproHot 1 x 1000 U **349.75 €**

### Data Comparison between different DNA-Polymerases from Genaxxon

Product Name	Taq S	Taq E	DF-Taq	PCR Mastermix (2X)	RedTaq	PCR RedMaster (2X)	LongMax Kit
Cat #	M3001	M3043	M3185	M3014	M3305	M3029	M3000
5' - 3' polymerase	yes	yes	yes	yes	yes	yes	yes
5' - 3' exonuclease	yes	yes	yes	yes	yes	yes	yes
3' - 5' exonuclease	no	no	no	no	no	no	no
dNTPs incorporation (nucleotides/sec)	35-100	35-100	35-100	35-100	35-100	35-100	35-100
Error rate (x10 <sup>6</sup> )	3.3	3.8	3.8	3.3	3.8	3.8	3.8
Thermostability and remaining activity at 95 °C	40 min	40 min	40 min	40 min	40 min	40 min	40 min
Longest amplicons	> 7 kb	10 kb	10 kb	> 7 kb	8kb	8kb	> 12 kb
Addition of poly A	yes	yes	yes	yes	yes	yes	yes
Application	High specificity PCR	High efficiency PCR	High specificity PCR	High specificity PCR	High specificity PCR	High specificity PCR	High efficiency PCR

M3043 is a Taq-Polymerase optimally suited for colony screens/higher yields/ M3185 is a Taq-Polymerase that is tested for contaminants of 16S-DNA/ M3305 is a Taq-Polymerase that contains a red dye enabling a visualisation of the pipetting procedure/ M3029 contains a red dye. No loading buffer necessary./ M3000 contains a Taq-Polymerase and a special buffer system that enables PCR of very long fragments.

### Data Comparison between different DNA-Polymerases from Genaxxon

Product name	HotStart	SuperHot	HotStart Mastermix	Pfunds	Pwo	ReproFast	KOD/ReproHot
Cat #	M3006	M3307	M3007	M3004	M3002	M3003	M3012
5' - 3' polymerase	yes	yes	yes	yes	yes	yes	yes
5' - 3' exonuclease	yes	yes	yes	yes	yes	yes	yes
3' - 5' exonuclease	no	no	no	yes	yes	yes	yes
dNTPs incorporation(nucleotides/sec)	30-60	35-100	35-100	ca. 10	ca. 10	25-50	30-60
Error rate (x10 <sup>6</sup> )	-	4.0	4.0	0.55	0.6	0.65	0.65
Thermostability and remaining activity at 95 °C	40 min	60 min	60 min	90 min	90 min	60 min	40 min
Longest amplicons	10kb	8 kb	8 kb	5 kb	5 kb	> 7 kb	> 7 kb
Addition of poly A	yes	yes	yes	blunt end	blunt end	blunt end	blunt end
Application	Hot Start PCR	Hot Start PCR	High specificity PCR	High fidelity PCR	High fidelity PCR	High fidelity PCR	High fidelity PCR
						Long PCR	Hot Start PCR

M3006 is a HotStart-Polymerase with separate Antibody/ M3307 is a chemically modified HotStart Polymerase without Antibody  
 M3003 is a DNA-Polymerase for long fragments with very low error rate/ M3012 is a Proof-reading Polymerase with Antibody

## Pfunds DNA Polymerase

The Genaxxon BioScience *Pfunds*-Polymerase is a thermostable enzyme possessing 5'-3' DNA polymerase and 3'-5' proof reading exonuclease activities. The enzyme provides extremely high fidelity. Use of the Genaxxon *Pfunds*-DNA polymerase in amplification results in blunt-ended products, ideal for cloning into blunt-end vectors like the Genaxxon pMBL cloning vector.

M3004.0250	<i>Pfunds</i>	1 x 250 U	75.00 €
M3004.0500	<i>Pfunds</i>	2 x 250 U	145.00 €
M3004.1250	<i>Pfunds</i>	5 x 250 U	299.00 €

## Pwo Polymerase

Genaxxon BioScience *Pwo* DNA Polymerase is a highly processive 5'-3' DNA polymerase with additional 3'-5' exonuclease activity (proof-reading). The enzyme has no detectable 5'-3' exonuclease activity. It exhibits increased thermal stability as well as a tenfold increase in fidelity of DNA synthesis compared to Taq DNA Polymerase. *Pwo* generates blunt-ended PCR products.

M3002.0100	<i>Pwo</i>	1 x 100 U	35.00 €
M3002.0500	<i>Pwo</i>	2 x 250 U	155.00 €
M3002.1250	<i>Pwo</i>	5 x 250 U	340.00 €

# Proof Reading Polymerases

Prices valid until 31.12.2010

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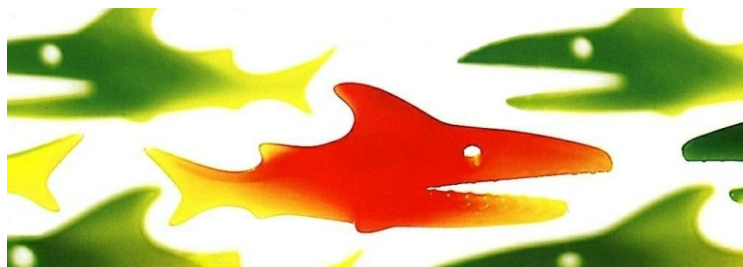
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