

Taq S DNA Polymerase

A highly processive 5' - 3' DNA polymerase, lacking 3' - 5' exonuclease activity for amplification of DNA fragments of up to 10 kb. Delivered with 10x reaction buffer with KCl for higher specificity and separate MgCl₂.

M3001.1000 4 x 250 U **120.00 €**
M3001.2500 10 x 250 U **275.00 €**

Taq E DNA Polymerase

A highly processive 5' - 3' DNA polymerase, lacking 3' - 5' exonuclease activity for amplification of DNA fragments of up to 10 kb. Delivered with 10x reaction buffer with (NH₄)₂SO₄ for higher efficiency and separate MgCl₂.

M3043.1000 4 x 250 U **120.00 €**
M3043.2500 10 x 250 U **275.00 €**

DF-Taq Polymerase (DNA-free)

A highly processive 5' - 3' DNA polymerase, lacking 3' - 5' exonuclease activity. The high processivity and fidelity allows amplification of DNA fragments of up to 10 kb. Delivered with 10X reaction buffer and separate MgCl₂. The special purification procedure guarantees Taq-Polymerase free of any DNA impurities, especially free of DNA from the conservative region of the 16S ribosomal gene.

M3185.1000 4 x 250 U **195.00 €**
M3185.2500 10 x 250 U **337.50 €**

Product Name	Taq S	Taq E	DF-Taq	PCR Mastermix	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 ⁻⁸)	3.3	3.8	3.8	3.3	3.8	3.8	3.8
Thermostability and remaining activity at 95 ° C	40 min >50%	40 min >50%	40 min >50%	40 min >50%	40 min >50%	40 min >50%	40 min >50%
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.

Product name	HotStart	SuperHot	HotStart Mastermix	Green/Probe Mastermix (2X)	Pfunds	ReproFast	KOD/ReproHot
Cat #	M3006	M3307	M3007	M3023/M3052 M3011/M3010	M3004	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	no	yes	yes	yes
dNTPs incorporation (nucleotides/sec)	30-60	35-100	35-100	35-100	ca. 10	25-50	30-60
Error rate (x10 ⁻⁸)	-	4.0	4.0	4.0	0.55	0.65	0.65
Thermostability and remaining activity at 95 ° C	40 min >50%	60 min >70%	60 min >70%	60 min >70%	90 min >70%	60 min >70%	40 min >50%
Longest amplicons	10kb	8 kb	8 kb	8 kb	5 kb	> 7 kb	> 7 kb
Addition of poly A	yes	yes	yes	yes	blunt end	blunt end	blunt end
Application	Hot Start PCR	Hot Start PCR	High specificity PCR	High specificity	High fidelity PCR	High fidelity PCR Long PCR	High fidelity 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
M3023 is a HotStart Mastermix with fluorescent dye/ M3052, M3011 and M3010 are Hotstart Mastermixes with ROX

RedTaq DNA Polymerase

Mixture of Genaxxon DNA polymerase and red pigment. After addition to the PCR reaction mixture a thin red layer on the bottom of the tube appears for visible control. In electrophoresis the red dye migrates at about the same rate as a 125 base pair fragment in a 1% agarose gel. The red dye has no effect on automated or manual sequencing, restriction digestions or other downstream applications.

M3305.0500	1 x 500 U	95.00 €
M3305.2500	10 x 250 U	375.00 €

PCR Mastermix (2X)

The Genaxxon PCR Master Mix (2X) is a 2-fold concentrated ready-to-use PCR mixture of *Taq* DNA polymerase, MgCl₂, dNTPs and PCR buffer, containing a special mixture of components which guarantees reproducible results even after repeated freeze/ thaw steps.

M3014.0100	2.5 mL	55.00 €
M3014.0500	12.5 mL	245.00 €

PCR RedMastermix (2X)

Premixed *Taq* DNA polymerase, dNTP and buffer (2X) for routine PCR plus additional red-dye for the visible control of your pipetting and mixing. Mix for 50 µL reaction buffer.

M3029.0100	2.5 mL	62.50 €
M3029.0500	12.5 mL	295.50 €

Taq DNA Polymerases

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Solutions for molecular
 and cell biology

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