



# Marketplace

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## savings

Welcome to the Thermo Scientific  
Molecular Biology Marketplace.

A quarterly publication containing special offers for  
significant savings on a variety of molecular biology  
products.

p2 Molecular Biology Tools  
p4 PCR and qPCR

**Thermo**  
SCIENTIFIC

# Purity > 99%

## Thermo Scientific Nucleotides - dNTP Sets and Mixes

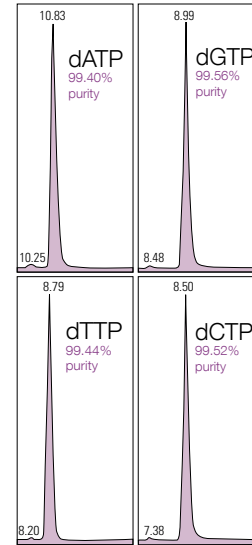
Buy 1 Get 1 Free

### Benefits

- Manufactured in class D clean room facilities
- Purity > 99%; confirmed by HPLC
- Free of endo-, exonucleases and RNases and nicking activities
- Free of human and *E.coli* DNA
- Highly stable after multiple freeze/thaw cycles

Cat. No.	Description	Quantity
R0181	dNTP Set, 100 mM Solutions	4x0.25 ml
R0182	dNTP Set, 100 mM Solutions	4x1 ml
R0186	dNTP Set, 100 mM Solutions	4x5 ml
R0192	dNTP Mix, 10 mM each	1 ml
R0193	dNTP Mix, 10 mM each	5x1 ml
R1121	dNTP Mix, 25 mM each	1 ml
R1122	dNTP Mix, 25 mM each	5x1 ml
R0242	dNTP Mix, 2 mM each	5x1 ml
R0251	dNTP/dUTP Mix	1 ml

\*Please quote Promotion Code **MPD31\_MolBio11** to take advantage of this offer. Offers are valid until November 30<sup>th</sup>, 2011.



# Market leading

## Thermo Scientific GeneRuler DNA ladders

25% off

### Benefits

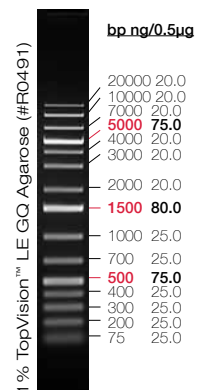
- Ideal for both DNA sizing and approximate quantification
- Sharp bands and bright reference bands
- Supplied with additional 6x DNA loading dye for your sample DNA
- Produced using individual chromatography-purified DNA fragments

Cat. No.	Description	Quantity	Range bp
SM0311	GeneRuler 1 kb DNA Ladder	250 (5x50 µg)	250-10000
SM0312	GeneRuler 1 kb DNA Ladder	1250 (25x50 µg)	250-10000
SM0313	GeneRuler 1 kb DNA Ladder, r-t-u	250 (5x50 µg)	250-10000
SM1331	GeneRuler 1 kb Plus DNA Ladder	250 (5x50 µg)	75-20000
SM1332	GeneRuler 1 kb Plus DNA Ladder	1250 (25x50 µg)	75-20000
SM1333	GeneRuler 1 kb Plus DNA Ladder, r-t-u	250 (5x50 µg)	75-20000
SM0244	GeneRuler 100 bp DNA Ladder, r-t-u	250 (5x50 µg)	100-1000
SM0242	GeneRuler 100 bp DNA Ladder	250 (5x50 µg)	100-1000
SM0243	GeneRuler 100 bp DNA Ladder, r-t-u	50 µg	100-1000
SM0322	GeneRuler 100 bp Plus DNA Ladder	250 (5x50 µg)	100-3000
SM0323	GeneRuler 100 bp Plus DNA Ladder, r-t-u	50 µg	100-3000
SM0324	GeneRuler 100 bp Plus DNA Ladder, r-t-u	250 (5x50 µg)	100-3000
SM0371	GeneRuler 50 bp DNA Ladder	50 µg	50-1000
SM0373	GeneRuler 50 bp DNA Ladder, r-t-u	50 µg	50-1000

r-t-u: ready to use / premixed with loading dye

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### GeneRuler 1 kb Plus DNA Ladder

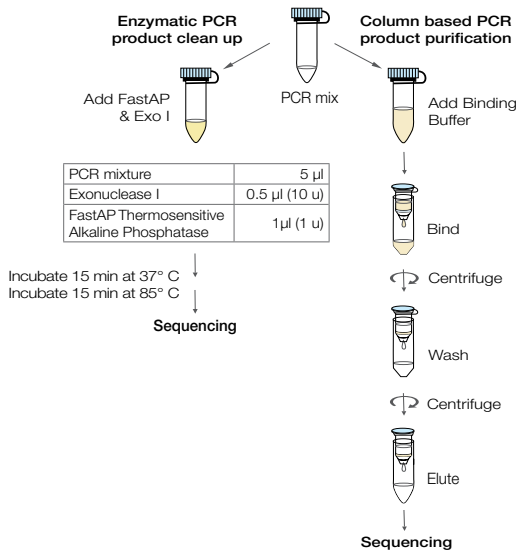


0.5µg/lane, 8cm length gel, 1X TAE, 7V/cm, 45min

# Fast PCR clean-up

Thermo Scientific FastAP Alkaline Phosphatase & Exonuclease I

## Comparison of procedures



## Benefits

- Efficient - FastAP and Exo I remove excess primers and unincorporated dNTPs without any sample loss
- Convenient - one tube, 30 min enzymatic procedure
- Economical - 70% less expensive than spin column-based clean-up kits
- Compatible - following clean-up PCR products can be used for sequencing without further purification steps

Buy 1 Get 1 Free

Cat. No.	Description	Quantity
EF0651	FastAP Thermosensitive Alkaline Phosphatase	1000 u
EF0652	FastAP Thermosensitive Alkaline Phosphatase	5000 u
EN0581	Exonuclease I (Exo I)	4000 u
EN0582	Exonuclease I (Exo I)	20000 u

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# Efficient DNA blunting

Buy Thermo Scientific Fast DNA End Repair Kit and get a free Thermo Scientific GeneJET Kit

## Benefits

- Efficient - blunting and phosphorylation of 0.5 – 5 µg DNA
- Fast - reaction completed in 5 minutes
- Convenient - reaction components are premixed to reduce pipetting steps
- High purity DNA for efficient blunting and ligation obtained with GeneJET kits

Free GeneJET Kit\*

Cat. No.	Description	Quantity
K0771	Fast DNA End Repair Kit	50 react
K0691	GeneJET Gel Extraction Kit <b>OR</b>	50 react
K0701	GeneJET PCR Purification Kit	50 react

\*Please quote Promotion Code **MPD31\_MolBio** to take advantage of this offer. Choose either GeneJET Gel Extraction Kit or GeneJET PCR Purification Kit. Offers are valid until November 30<sup>th</sup>, 2011.



# Optimal performance for conventional real-time qPCR

## Thermo Scientific Maxima qPCR Master Mixes

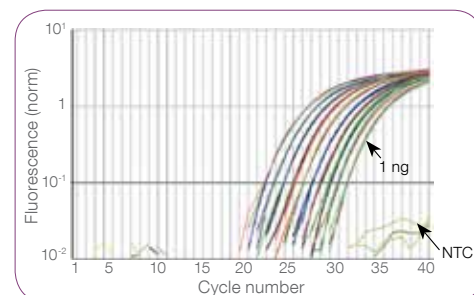
30% Off\*

Maxima real-time qPCR kits are optimized 2x master mixes allowing specific and sensitive detection of a wide range of template concentrations. The kits provide optimal performance on all main real-time thermal cyclers.

- Available in multiple formats and for different detection chemistries
- Specific and sensitive detection
- Included dUTP allows the use of UNG for prevention of carry-over contamination

Cat. No.	Description	Quantity
K0232	Maxima Probe/ROX qPCR Master Mix (2X)	1000 x 25 µl
K0262	Maxima Probe qPCR Master Mix (2X), ROX Solution provided	1000 x 25 µl
K0222	Maxima SYBR Green/ROX qPCR Master Mix (2X)	1000 x 25 µl
K0252	Maxima SYBR Green qPCR Master Mix (2X), ROX Solution provided	1000 x 25 µl
K0242	Maxima SYBR Green/Fluorescein qPCR Master Mix (2X)	1000 x 25 µl

\*Please quote Promotion Code **MPD31\_PCR** to take advantage of this offer. Offers are valid until November 30<sup>th</sup>, 2011.



### Precise and reproducible results

Amplification of human PGK1 gene was performed on serial 2-fold dilutions of human genomic DNA (from 0.5 µg to 1 ng) in 4 replicate reactions of 25 µl. Reactions were performed on an ABI PRISM 7000 instrument. NTC is the non-template control.

# Rapid and sensitive first strand cDNA synthesis

## Thermo Scientific Maxima First Strand cDNA Synthesis Kit

30% Off\*

Maxima First Strand cDNA Synthesis Kit utilizes Maxima Reverse Transcriptase, an advanced enzyme derived from *in vitro* evolution of M-MuLV RT. This enzyme displays high thermostability, robustness and increased synthesis rates in RT-qPCR. The use of this kit in combination with any of the Thermo Scientific range of qPCR master mixes will deliver results with high specificity, sensitivity and a wide linear range.

- Sensitive and reproducible - cDNA synthesis from a wide range of total RNA amounts (1 pg - 5 µg)
- Increased synthesis rates - complete cDNA synthesis in 15 minutes
- Increased reaction temperatures - Active up to 60°C
- Increased reproducibility - reduced bias
- Convenient format - premixed solutions for use in RT-qPCR

Cat. No.	Description	Quantity
K1642	Maxima First Strand cDNA Synthesis Kit for RT-qPCR	200 x 20 µl

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# Workhorse for routine PCR

## Thermo Scientific *Taq* DNA Polymerase and dNTP Mix

*Taq* DNA Polymerase is an ideal enzyme for standard PCR.

Buy 2 x 500 U of *Taq* and get a dNTP Mix for Free

- For templates of 5 kb or shorter
- Supplied with 2 buffers; 10x *Taq* Buffer with KCl and 10x *Taq* Buffer with (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>.
- Recombinant PCR enzyme

Cat. No.	Description	Quantity
EP00402	<i>Taq</i> DNA Polymerase (recomb.)	500 u
R0192	dNTP Mix (10mM each)	1.0 ml

\*Please quote Promotion Code **MPD31\_PCR** to take advantage of this offer. Offers are valid until November 30<sup>th</sup>, 2011.

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