

Marketplace

CLONING CLASSICS

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Use promotion code RMP151
to obtain promotional pricing

In this edition of Marketplace
Special offers on
Thermo Scientific™ products:

- Cloning Enzymes and Kits
- FastDigest™ Enzymes
- GeneJET™ Nucleic Acid Purification Kits
- TopVision™ Agarose Tablets
- PCR Plastic Consumables
- GeneRuler™ DNA Ladders
- DreamTaq™ DNA Polymerases

Find all promotions at
thermoscientific.com/mp

Thermo
SCIENTIFIC

Powerful enzymes and kits to support your cloning workflow



Thermo Scientific™ Cloning Kits

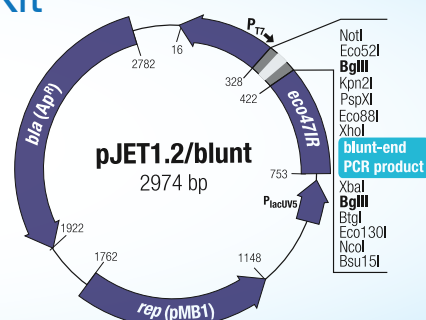
- PCR cloning of blunt- and sticky-end DNA fragments in 5–10 minutes (Cat. No. K1231/2)
- Ligation of blunt- or sticky-end DNA in 5 minutes (Cat. No. K1422/3)
- Blunting and phosphorylation of DNA ends in 5 minutes (Cat. No. K0771)
- Fast and efficient introduction of mutations in any type of plasmid DNA (Cat. No. F-541)

Cat. No.	Description	Size
K1231	CloneJET PCR Cloning Kit	20 rxns
K1232		40 rxns
K1422	Rapid DNA Ligation Kit	50 rxns
K1423		150 rxns
K0771	Fast DNA End Repair Kit	50 rxns
F-541	Phusion Site-Directed Mutagenesis Kit	20 rxns

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Highlights for CloneJET PCR Cloning Kit

- PCR cloning in only 5 to 10 minutes
- Positive selection: cloning vector (pJET1.2/blunt) contains a lethal gene that is disrupted by ligation of a DNA insert into the cloning site
- More than 99% positive clones
- Works for blunt and sticky ends
- No expensive blue/white screening



Thermo Scientific™ DNA Modifying Enzymes

- For fast and efficient ligation, blunting, phosphorylation and dephosphorylation
- Extremely pure quality
- Produced under the ISO 9001:2000 quality management system

Cat. No.	Description	Size
EL0014	T4 DNA Ligase (5 Weiss U/μL)**	200 U
EL0011		1,000 U
EF0651	FastAP Thermosensitive Alkaline Phosphatase (1 U/μL)	1,000 U
EF0652		5 x 1,000 U
EN0581	Exonuclease I (20 U/μL)	4,000 U
EN0582		20,000 U
EP0051	Klenow Fragment (10 U/μL)	300 U
EP0421	Klenow Fragment, exo- (5 U/μL)	300 U
EK0031	T4 Polynucleotide Kinase (T4 PNK) (10 U/μL)	500 U
EK0032		2,500 U
EP0061	T4 DNA Polymerase (5 U/μL)	100 U
EP0062		500 U
EP0081	T7 DNA Polymerase (10 U/μL)	300 U

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**1 Weiss Unit = 200 Cohesive End Units (CEUs)



For accurate DNA analysis



Thermo Scientific™ GeneRuler™ DNA Ladders

- Broad range ladders with bright reference bands
- Easy DNA quantification
- Supplied with 6X loading dye



Cat. No.	Description	Size	Range (bp)
SM0241	GeneRuler 100 bp DNA Ladder	100 appl.	100–1,000
SM0242	GeneRuler 100 bp DNA Ladder, RTU**	500 appl.	
SM0243	GeneRuler 100 bp DNA Ladder, RTU**	100 appl.	
SM0321	GeneRuler 100 bp Plus DNA Ladder	100 appl.	100–3,000
SM0322	GeneRuler 100 bp Plus DNA Ladder, RTU	500 appl.	
SM0323	GeneRuler 100 bp Plus DNA Ladder, RTU	100 appl.	
SM0311	GeneRuler 1 kb DNA Ladder	500 appl.	250–10,000
SM0312	GeneRuler 1 kb DNA Ladder, RTU	2,500 appl.	
SM0313	GeneRuler 1 kb DNA Ladder, RTU	500 appl.	
SM1331	GeneRuler 1 kb Plus DNA Ladder	500 appl.	75–20,000
SM1332	GeneRuler 1 kb Plus DNA Ladder, RTU	2,500 appl.	
SM1333	GeneRuler 1 kb Plus DNA Ladder, RTU	500 appl.	
R0611	6X DNA Loading Dye	5 x 1 mL	
R0631	6X Orange DNA Loading Dye	5 x 1 mL	

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**RTU = ready-to-use



Thermo Scientific™ TopVision™ Agarose Tablets

- Convenient tablet format—no messy weighing required
- Fast dissolving protocol
- Uses an innovative, organic, solvent-free technology that helps reduce environmental impact by using less toxic materials
- Enhanced resolution and reduced background



Cat. No.	Description	Size
R2801	TopVision Agarose Tablets (0.5 g each)	200 tablets
R2802	TopVision Agarose Tablets (0.5 g each)	1,000 tablets

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Tips & tricks: DNA gel electrophoresis

- Always let the gel solidify completely to obtain clear and sharp bands
- Chose the gel percentage according to the DNA fragments you want to analyze
- Don't overload your gel: use ~0.1–0.2 µg DNA per 1 mm gel lane
- Avoid excessive voltage: run your gels at 5–8 V/cm; lower voltage during the first minutes of the gel run increases band sharpness



Agarose conc. (%)	0.7	0.9	1.2	1.5	1.5
DNA size range (kb)	0.8–10	0.5–7	0.4–6	0.2–4	0.1–3

Recommended agarose percentage for DNA separation.



Robust DNA polymerase for fast clone screening



Thermo Scientific™ DreamTaq™ Green DNA Polymerase

- Enhanced *Taq* DNA polymerase optimized for routine PCR amplification
- Longer fragment amplification, higher sensitivity and better yields than conventional *Taq* DNA polymerase
- Direct loading of PCR products on gels with green buffer formats

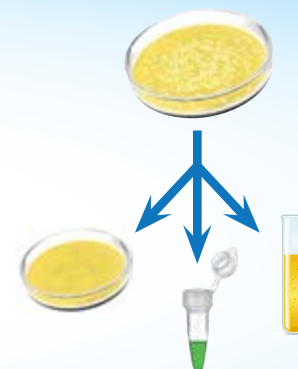
Cat. No.	Description	Size
EP0712	DreamTaq Green DNA Polymerase (5 U/μL)	500 U
EP0713		5 x 500 U
K1081	DreamTaq Green PCR Master Mix (2X)	200 rxns
K1082		1,000 rxns

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Tips & tricks: colony PCR

Used for direct analysis of positive transformants.

1. Set aside a fresh LB plate and culture tubes with LB medium
2. Aliquot DreamTaq Green Master Mix
3. Transfer clone to fresh plate using a sterile pipette tip
4. Resuspend bacterial colony in DreamTaq PCR mixture and transfer tip into the culture tube
5. Run PCR (apply 5 minutes initial denaturation step to lyse cells)
6. Analyze PCR products via gel electrophoresis



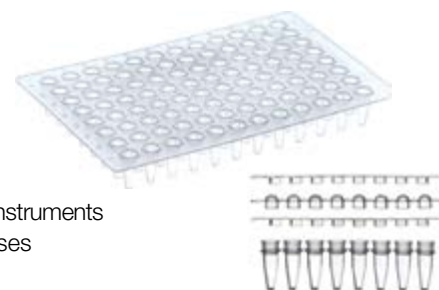
Reliable PCR plastics



Thermo Scientific™ Plastic Consumables

- Plates, tubes, strips and sealing options compatible with all main PCR instruments
- Clean-room production—certified free from DNA, RNases and DNases
- Uniform well walls for maximum and consistent heat transfer

Cat. No.	Description	Size
AB-0620	0.2 mL Flat Cap Tubes	1,000 tubes
AB-1182	Strips of 8 Tubes and Flat Caps	250 strips
AB-0784	Strips of 8 Flat Caps	250 strips
AB-0700	96-Well Low Profile PCR Plate, Non-Skirted	25 plates
AB-0800	96-Well Low Profile PCR Plate, Full-Skirted	25 plates
AB-0900	96-Well Segmented PCR Plate, Semi-Skirted	25 plates
AB-0600	96-Well PCR Plate, Non-Skirted	25 plates
AB-1815	VersiCap™ Mat, Flat Cap Strips	25 mats
AB-0558	Adhesive PCR Film	100 sheets



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Essential nucleic acid purification kits for cloning



Thermo Scientific™ GeneJET™ Kits

- High yields of pure nucleic acids
- Convenient spin columns with trusted silica membrane technology
- Specialized protocols for a wide variety of sample types



Thermo Scientific Cat. No.	Fisher Scientific Promo Cat. No.	Description	Size
K0502		GeneJET Plasmid Miniprep Kit	50 preps
K0503			250 preps
K0481			25 preps
K0482		GeneJET Plasmid Midiprep Kit	100 preps
K0491			10 preps
K0492		GeneJET Plasmid Maxiprep Kit	25 preps
K0731		GeneJET RNA Purification Kit	50 preps
K0732			250 preps
K0721		GeneJET Genomic DNA Purification Kit	50 preps
K0722			250 preps
K0701		GeneJET PCR Purification Kit	50 preps
K0702			250 preps
K0691		GeneJET Gel Extraction Kit	50 preps
K0692			250 preps
K0831		GeneJET Gel Extraction and DNA Cleanup Micro Kit	50 preps
K0832			250 preps

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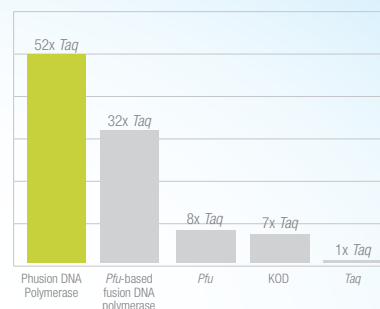
Gold standard for high-fidelity PCR

High-fidelity DNA polymerases are essential for cloning because they help ensure high accuracy of DNA amplicons after PCR. Thermo Scientific™ Phusion™ High-Fidelity DNA Polymerase is one of the most accurate thermostable polymerases available and is considered a gold standard for cloning. It was created by fusing a proofreading DNA polymerase with a processivity-enhancing domain, which increases polymerase fidelity and speed.

Learn more at thermoscientific.com/phusion

Quick guide for using Phusion High-Fidelity DNA Polymerase in PCR

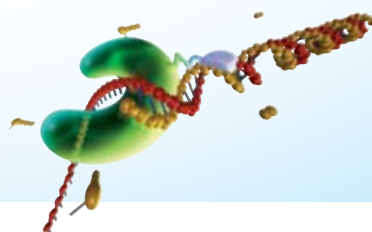
- Use 0.5–1.0 U per 50 µL reaction volume
- Use 15–30 s/kb for extension
- Use 98°C for denaturation
- Anneal at $T_m + 3^\circ\text{C}$ (>20 nt) or use 2-step protocol
- Use 200 µM of each dNTP (final concentration)



▲ Relative fidelity values of different DNA polymerases. Fidelity = 1/error rate.

Thermo Scientific Phusion High-Fidelity DNA Polymerase

- Extremely accurate and fast amplification
- Robust performance and high yields
- Direct loading on gels with green buffer formats



Restriction digestion as easy as it gets

25%
OFF*

Thermo Scientific™ FastDigest™ Restriction Enzymes

- 100% activity of all FastDigest enzymes in ONE universal reaction buffer
- Complete digestion in 5 to 15 minutes
- Green Buffer for direct loading on gels**
- 100% buffer compatibility with downstream applications

Conventional restriction enzymes Sequential digestion

- 1 Reaction setup for Apal ~2 minutes
- 2 Incubation at 37°C 60 minutes
- 3 Reaction setup for XhoI >2 minutes
- 4 Incubation at 37°C 60 minutes

TOTAL TIME > 2 hours

FastDigest restriction enzymes One reaction mixture

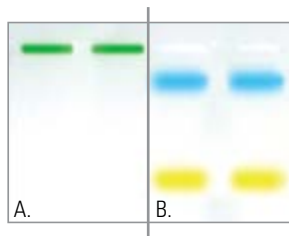
- 1 Set up ONE reaction mixture with:
FastDigest Apal and FastDigest XhoI ~2 minutes
- 2 Incubation at 37°C 5 minutes

TOTAL TIME 7 minutes

Save more than 2 hours when
performing double digestion reactions.

Discover all 176 FastDigest enzymes at
thermoscientific.com/fastdigest

*The FastDigest product catalog numbers can be found online.
Please use promotion code RMP151. Offers are valid from
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any other promotions or offers.



Digestion reaction mixture:

- A. Before electrophoresis
B. Blue and yellow tracking dyes after electrophoresis

**What is the Green Buffer?

The 10X FastDigest Green Buffer includes a density reagent and two tracking dyes for direct loading of reaction mixtures on gels. It shows the same high efficiency in DNA digestion and downstream applications as the colorless FastDigest Buffer.



/ThermoSciBio



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For further information and ordering, visit: thermoscientific.com/mp

*Discount will apply to qualifying orders received between February 1, 2015, and May 31, 2015, or until promotional supplies are depleted, whichever comes first. Discount applies to the list price in effect at the time the order is received. Cannot be combined with other discounts or promotions. Offer void where prohibited, licensed, or restricted by federal, state, provincial, or local laws or regulation or agency/institutional policy. Other restrictions may apply.

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Akciós árlista, érvényes a 2015. február 1. és május 27. között beérkező rendelésekre

Kód	Termék	Kiszerelés	Listaár (nettó Ft)	Akciós ár (nettó Ft)
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FASTDIGEST RESTRIKCIÓS ENZIMEK 25 % KEDVEZMÉNNYEL

FDXXXX	FastDigest Restriction Enzymes	176 specifitás	25 % a listaárból	
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KLÓNOZÓ ÉS MÓDOSÍTÓ ENZIMEK 25% KEDVEZMÉNNYEL

EL0014	T4 DNA Ligase	200 U	12 700	9 525
EL0011	T4 DNA Ligase	1000 U	20 200	15 150
K1422	Rapid DNA Ligation Kit	50 rxns	44 900	33 675
K1423	Rapid DNA Ligation Kit	150 rxns	111 500	83 625
K1231	CloneJET PCR Cloning Kit	20 rxns	38 700	29 025
K1232	CloneJET PCR Cloning Kit	40 rxns	73 500	55 125
EK0031	T4 Polynucleotide Kinase	500 U	11 100	8 325
EK0032	T4 Polynucleotide Kinase	2500 U	45 500	34 125
EF0651	FastAP Thermosensitive Alkaline Phosphatase	1000 U (1 U/μL)	19 800	14 850
EF0652	FastAP Thermosensitive Alkaline Phosphatase	5x1000 U (1 U/μL)	77 700	58 275
K0771	Fast DNA End Repair Kit	50 rxns	48 400	36 300
F-541	Phusion Site-Directed Mutagenesis Kit	20 rxns	55 300	41 475
EN0581	Exonuclease I (Exo I)	4000 U (20 U/μL)	23 400	17 550
EN0582	Exonuclease I (Exo I)	20000 U (20 U/μL)	93 000	69 750
EP0051	Klenow Fragment	300 U (10 U/μL)	19 500	14 625
EP0421	Klenow Fragment, exo-	300 U (5 U/μL)	19 500	14 625
EP0061	T4 DNA Polymerase	100 U (5 U/μL)	12 000	9 000
EP0062	T4 DNA Polymerase	500 U (5 U/μL)	49 100	36 825
EP0081	T7 DNA Polymerase	300 U (10 U/μL)	20 500	15 375

ROBOSZTUS AMPLIFIKÁLÁS 25 % KEDVEZMÉNNYEL

EP0712	DreamTaq Green DNA Polymerase	500 U	21 100	15 825
EP0713	DreamTaq Green DNA Polymerase	5 x 500 U	83 200	62 400
K1081	DreamTaq Green PCR Master Mix	200 x 50 μl rxns	27 300	20 475
K1082	DreamTaq Green PCR Master Mix	1000 x 50 μL rxns	110 500	82 875

ELŐRE KIMÉRT AGARÓZ 25% KEDVEZMÉNNYEL

R2801	TopVision Agarose Tablets, 0,5 g each	200 tablets	29 900	22 425
R2802	TopVision Agarose Tablets, 0,5 g each	1000 tablets	119 600	89 700

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DNS LÉTRÁK 25% KEDVEZMÉNNYEL

SM0241	GeneRuler 100 bp DNA Ladder	50 μg	15 600	11 700
SM0242	GeneRuler 100 bp DNA Ladder	5 x 50 μg	60 800	45 600
SM0243	GeneRuler 100 bp DNA Ladder, RTU	50 μg	19 200	14 400
SM0321	GeneRuler 100 bp Plus DNA Ladder	50 μg	15 600	11 700
SM0322	GeneRuler 100 bp Plus DNA Ladder	5 x 50 μg	60 800	45 600
SM0323	GeneRuler 100 bp Plus DNA Ladder, RTU	50 μg	19 200	14 400
SM0311	GeneRuler 1 kb DNA Ladder	5 x 50 μg	25 000	18 750
SM0312	GeneRuler 1 kb DNA Ladder	25 x 50 μg	101 100	75 825
SM0313	GeneRuler 1 kb DNA Ladder, RTU	5 x 50 μg	29 600	22 200
SM1331	GeneRuler 1 kb Plus DNA Ladder	5 x 50 μg	31 900	23 925
SM1332	GeneRuler 1 kb Plus DNA Ladder	25 x 50 μg	127 700	95 775
SM1333	GeneRuler 1 kb Plus DNA Ladder, RTU	5 x 50 μg	40 000	30 000
R0611	6X DNA Loading Dye	5 x 1.0 mL	10 100	7 575
R0631	6X Orange DNA Loading Dye	5 x 1.0 mL	10 100	7 575

Akciós árlista, érvényes a 2015. február 1. és május 27. között beérkező rendelésekre

Kód	Termék	Kiszerelés	Listaár (nettó Ft)	Akciós ár (nettó Ft)
KIVÁLÓ MINŐSÉGŰ PCR és qPCR MŰANYAG 40% KEDVEZMÉNNYEL				
AB-0700	96-well Low Profile PCR Plate, Non-Skirted	25 plates	22 800	13 680
AB-0800	96-well Low Profile PCR Plate, Skirted	25 plates	22 400	13 440
AB-0900	96-well Segmented PCR Plate, Semi-Skirted	25 plates	22 400	13 440
AB-0600	96-well PCR Plate, Non-Skirted	25 plates	22 400	13 440
AB-0558	Adhesive PCR Seals	100 sheets	23 100	13 860
AB-0620	0.2 mL Flat Cap Tubes	1000 tubes	14 600	8 760
AB-1182	Strips of 8 Tubes & Flat Caps	250 strips	61 100	36 660
AB-0784	Strips of 8 Flat Caps	250 strips	12 400	7 440
AB-1815	VersiCap Mat, Flat Cap Strips	25 mats	12 700	7 620

NUKLEINSAV IZOLÁLÓ KITEK 25% KEDVEZMÉNNYEL

K0701	GeneJET™ PCR Purification Kit	50 preps	21 800	16 350
K0702	GeneJET™ PCR Purification Kit	250 preps	89 700	67 275
K0691	GeneJET™ Gel Extraction Kit	50 preps	21 800	16 350
K0692	GeneJET™ Gel Extraction Kit	250 preps	89 700	67 275
K0831	GeneJET Gel Extraction and DNA Cleanup Micro Kit	50 preps	26 000	19 500
K0832	GeneJET Gel Extraction and DNA Cleanup Micro Kit	250 preps	121 600	91 200
K0502	GeneJET Plasmid Miniprep Kit	50 preps	17 600	13 200
K0503	GeneJET Plasmid Miniprep Kit	250 preps	69 200	51 900
K0481	GeneJET Plasmid Midiprep Kit	25 preps	43 600	32 700
K0482	GeneJET Plasmid Midiprep Kit	100 preps	156 300	117 225
K0491	GeneJET Plasmid Maxiprep Kit	10 preps	38 000	28 500
K0492	GeneJET Plasmid Maxiprep Kit	25 preps	87 100	65 325
K0731	GeneJET RNA Purification Kit	50 preps	60 800	45 600
K0732	GeneJET RNA Purification Kit	250 preps	260 700	195 525
K0721	GeneJET Genomic DNA Purification Kit	50 preps	34 800	26 100
K0722	GeneJET Genomic DNA Purification Kit	250 preps	145 900	109 425