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Competent Cells		
Catalog #	Name	Size
EC0113	Thermo Scientific DH10B Competent Cells	20 reactions
EC0112	Thermo Scientific DH5α Competent Cells	20 reactions
EC0111	Thermo Scientific DH5α Competent Cells for Subcloning	40 reactions
EC0114	Thermo Scientific BL21(DE3) Competent Cells	20 reactions
K123120	Thermo Scientific™ CloneJET™ PCR Cloning Kit with DH10B Competent Cells	20 reactions
K123240	Thermo Scientific™ CloneJET™ PCR Cloning Kit with DH10B Competent Cells	40 reactions
GeneJET Purification Kits		
Catalog #	Name	Size
K0482	GeneJET Plasmid Midiprep Kit	100 preps
K0481	GeneJET Plasmid Midiprep Kit	25 preps
K0492	GeneJET Plasmid Maxiprep Kit	25 preps
K0491	GeneJET Plasmid Maxiprep Kit	10 preps
K0861	GeneJET Endo-Free Plasmid Maxiprep Kit	10 preps
K0831	GeneJET Gel Extraction and DNA Cleanup Micro Kit	50 preps
K0832	GeneJET Gel Extraction and DNA Cleanup Micro Kit	250 preps
Maxima H Minus Reverse Transcriptases		
Catalog #	Name	Size
EP0751	Maxima H Minus Reverse Transcriptase (200 U/μL)	2000 units
EP0752	Maxima H Minus Reverse Transcriptase (200 U/μL)	10000 units
EP0753	Maxima H Minus Reverse Transcriptase (200 U/μL)	4 x 10000 units
K2561	Maxima H Minus Double-Stranded cDNA Synthesis Kit	10 reactions
K1651	Maxima H Minus First Strand cDNA Synthesis Kit	20 reactions
K1652	Maxima H Minus First Strand cDNA Synthesis Kit	100 reactions
M1681	Maxima™ H Minus cDNA Synthesis Master Mix, with dsDNase	50 reactions
M1661	Maxima™ H Minus cDNA Synthesis Master Mix	50 reactions
M1662	Maxima™ H Minus cDNA Synthesis Master Mix	200 reactions
Phusion High-Fidelity DNA Polymerases		
Catalog #	Name	Size
F531S	Phusion High-Fidelity PCR Master Mix with HF Buffer	100 reactions
F531L	Phusion High-Fidelity PCR Master Mix with HF Buffer	500 reactions
F532S	Phusion High-Fidelity PCR Master Mix with GC Buffer	100 reactions
F532L	Phusion High-Fidelity PCR Master Mix with GC Buffer	500 reactions
F541	Phusion Site-Directed Mutagenesis Kit	20 reactions
F630S	Phusion Plus DNA Polymerase	100 reactions
F630L	Phusion Plus DNA Polymerase	500 reactions
CloneJET PCR Cloning Kits		
Catalog #	Name	Size
K1231	CloneJET PCR Cloning Kit	20 reactions
K1232	CloneJET PCR Cloning Kit	40 reactions
aLICator Ligation Independent Cloning and Expression System		
Catalog #	Name	Size
K1241	aLICator LIC Cloning and Expression Kit 1 (untagged)	20 reactions
K1251	aLICator LIC Cloning and Expression Kit 2 (N-terminal His-tag/EK)	20 reactions
K1261	aLICator LIC Cloning and Expression Kit 3 (C-terminal His-tag)	20 reactions
K1271	aLICator LIC Cloning and Expression Set 1 (All-in-One/EK)	30 reactions
K1281	aLICator LIC Cloning and Expression Kit 4 (N-terminal His-tag/WQ)	20 reactions
K1291	aLICator LIC Cloning and Expression Set 2 (All-in-One/WQ)	30 reactions

Modifying Enzymes		
Catalog #	Name	Size
EF0652	FastAP Thermosensitive Alkaline Phosphatase (1 U/μL)	5 x 1000 units
EF0654	FastAP Thermosensitive Alkaline Phosphatase (1 U/μL)	300 units
EF0651	FastAP Thermosensitive Alkaline Phosphatase (1 U/μL)	1000 units
EK0031	T4 Polynucleotide Kinase (10 U/μL)	500 units
EK0032	T4 Polynucleotide Kinase (10 U/μL)	2500 units
EL0011	T4 DNA Ligase (5 U/μL)	1000 units
EL0012	T4 DNA Ligase (5 U/μL)	5 x 1000 units
EL0013	T4 DNA Ligase, HC (30 U/μL)	5000 units
EL0014	T4 DNA Ligase (5 U/μL)	200 units
EL0016	T4 DNA Ligase, LC (1 U/μL)	2 x 500 units
B69	T4 DNA Ligase Buffer (10X)	1.5 mL
K0771	Fast DNA End Repair Kit	50 reactions
K1422	Rapid DNA Ligation Kit	50 reactions
K1423	Rapid DNA Ligation Kit	150 reactions
EP0061	T4 DNA Polymerase (5 U/μL)	100 units
EP0062	T4 DNA Polymerase (5 U/μL)	500 units
EP0051	Klenow Fragment (10 U/μL)	300 units
EP0052	Klenow Fragment (10 U/μL)	1500 units
EP0054	Klenow Fragment, LC (2 U/μL)	300 units
Reagents for isothermal amplification		
Catalog #	Name	Size
A39390	EquiPhi29™ DNA Polymerase	250 U
A39391	EquiPhi29™ DNA Polymerase	1000 U
A39392	EquiPhi29™ DNA Polymerase	5000 U
B39	EquiPhi29™ DNA Polymerase Reaction Buffer (10X)	5 x 1 mL
B62	Reaction Buffer for phi29 DNA Polymerase (10X)	5 x 1.0 mL
EP0691	Bsm DNA Polymerase, large fragment (8 U/μL)	1600 units
SO181	Exo-Resistant Random Primer	100 μL
PCR and qPCR plastics		
Catalog #	Name	Size
AB1113	Tubes and Domed Caps, strips of 12	80 strips
AB0490	Tubes and Domed Caps, strips of 8, assorted colors	250 strips
AB1114	Tubes and Flat Caps, strips of 12	80 strips
AB0496	Tubes and Flat Caps, strips of 8, assorted colors	250 strips
AB0800	PCR Plate, 96-well, low profile, skirted	25 plates
AB0600	PCR Plate, 96-well, non-skirted	25 plates
AB0700	PCR Plate, 96-well, low profile, non-skirted	25 plates
AB0900W	PCR Plate, 96-well, segmented, semi-skirted, white	25 plates
AB3596	Armadillo PCR Plate, 96-well, clear, semi-skirted, white wells	25 plates
AB0337	Tubes, 0.2 mL, domed cap	1000 tubes
AB0620	Tubes, 0.2 mL, flat cap	1000 tubes
Water and general reagents for molecular cloning applications		
Catalog #	Name	Size
R0392	IPTG, dioxane-free	5 g
R0393	IPTG, dioxane-free	5 x 5 g
R0402	X-Gal	2 x 1 g
R0404	X-Gal	1 g
R0551	Glycogen, RNA grade	2 x 0.1 mL
R0561	Glycogen, molecular biology grade	2 x 0.25 mL
R0581	Water, nuclease-free	4 x 1.25 mL
R0582	Water, nuclease-free	30 mL
R0601	DEPC-treated Water	30 mL

*Terms and Conditions apply.

R0603	DEPC-treated Water	5 x 1.0 mL
R0861	DTT (dithiothreitol)	5 g
R0862	DTT (dithiothreitol)	25 g
R0941	X-Gal Solution, ready-to-use	10 mL
R1021	EDTA (0.5 M), pH 8.0	5 x 1.0 mL
R1171	IPITG Solution, ready-to-use	10 x 1.5 mL
B52	TBE Buffer (Tris-borate-EDTA) (10X)	1 L
R2801	TopVision Agarose Tablets	200 tablets (0.5g each)
R2802	TopVision Agarose Tablets	1,000 tablets (0.5g each)
R0491	TopVision Agarose	100 g
R0492	TopVision Agarose	500 g
FastDigest restriction enzymes		
Catalog #	Name	Size
B64	FastDigest Buffer (10X)	5 x 1 mL
B72	FastDigest Green Buffer (10X)	5 x 1 mL
FD0014	FastDigest Alul	100 reactions
FD0024	FastDigest Alw211	100 reactions
FD0034	FastDigest Alw261	100 reactions
FD0044	FastDigest Alw441	200 reactions
FD0054	FastDigest BamHI	800 reactions
FD0055	FastDigest BamHI	2500 reactions
FD0064	FastDigest BcnI	200 reactions
FD0074	FastDigest BglI	200 reactions
FD0083	FastDigest BglII	100 reactions
FD0084	FastDigest BglIII	200 reactions
FD0094	FastDigest Bpu1102I	50 reactions
FD0124	FastDigest Bsp119I	200 reactions
FD0134	FastDigest Bsp120I	200 reactions
FD0143	FastDigest Bsu151	50 reactions
FD0144	FastDigest Bsu151	100 reactions
FD0154	FastDigest BsuRI	400 reactions
FD0184	FastDigest Cfr10I	50 reactions
FD0194	FastDigest Cfr13I	100 reactions
FD0214	FastDigest Csp6I	100 reactions
FD0224	FastDigest Dral	200 reactions
FD0234	FastDigest Eam1104I	50 reactions
FD0244	FastDigest Eam1105I	100 reactions
FD0254	FastDigest Eco136II	100 reactions
FD0264	FastDigest EcoO109I	200 reactions
FD0274	FastDigest EcoRI	800 reactions
FD0275	FastDigest EcoRI	2500 reactions
FD0293	FastDigest Eco31I	50 reactions
FD0294	FastDigest Eco31I	100 reactions
FD0303	FastDigest Eco32I	200 reactions
FD0304	FastDigest Eco32I	400 reactions
FD0314	FastDigest Eco47I	200 reactions
FD0324	FastDigest Eco47III	20 reactions
FD0334	FastDigest Eco52I	50 reactions
FD0344	FastDigest Eco57I	20 reactions
FD0364	FastDigest Eco72I	200 reactions
FD0374	FastDigest Eco81I	50 reactions
FD0384	FastDigest Eco88I	200 reactions
FD0394	FastDigest Eco91I	200 reactions
FD0404	FastDigest Eco105I	50 reactions
FD0414	FastDigest Eco130I	200 reactions
FD0424	FastDigest Eco147I	100 reactions
FD0434	FastDigest Scal	100 reactions
FD0443	FastDigest Ehel	20 reactions
FD0444	FastDigest Ehel	50 reactions
FD0454	FastDigest Esp3I	20 reactions

Search for your conventional Restriction Enzyme from: _____

FastDigest enzyme searching and selection tools: _____

FD0464	FastDigest Gsul	20 reactions
FD0474	FastDigest HinII	100 reactions
FD0484	FastDigest Hin6I	200 reactions
FD0494	FastDigest HincII	100 reactions
FD0504	FastDigest HindIII	800 reactions
FD0505	FastDigest HindIII	2500 reactions
FD0514	FastDigest HpaII	200 reactions
FD0524	FastDigest KpnI	300 reactions
FD0534	FastDigest Kpn2I	100 reactions
FD0544	FastDigest MspI	400 reactions
FD0554	FastDigest MvaI	200 reactions
FD0564	FastDigest MluI	100 reactions
FD0573	FastDigest NcoI	20 reactions
FD0574	FastDigest NcoI	100 reactions
FD0575	FastDigest NcoI	300 reactions
FD0583	FastDigest NdeI	100 reactions
FD0584	FastDigest NdeI	300 reactions
FD0585	FastDigest NdeI	1000 reactions
FD0593	FastDigest NotI	20 reactions
FD0594	FastDigest NotI	50 reactions
FD0595	FastDigest NotI	150 reactions
FD0596	FastDigest NotI	250 reactions
FD0604	FastDigest PaeI	20 reactions
FD0614	FastDigest PstI	800 reactions
FD0615	FastDigest PstI	2500 reactions
FD0624	FastDigest PvuI	20 reactions
FD0634	FastDigest PvuII	400 reactions
FD0644	FastDigest Sall	200 reactions
FD0654	FastDigest SduI	50 reactions
FD0663	FastDigest SmaI	100 reactions
FD0664	FastDigest SmaI	200 reactions
FD0674	FastDigest TaqI	400 reactions
FD0684	FastDigest XbaI	300 reactions
FD0685	FastDigest XbaI	750 reactions
FD0694	FastDigest XhoI	400 reactions
FD0695	FastDigest XhoI	1200 reactions
FD0704	FastDigest Bst1107I	100 reactions
FD0714	FastDigest Van91I	100 reactions
FD0724	FastDigest BclI	300 reactions
FD0734	FastDigest Mph1103I	100 reactions
FD0744	FastDigest CpoI	20 reactions
FD0753	FastDigest MunI	20 reactions
FD0754	FastDigest MunI	50 reactions
FD0764	FastDigest Psp5II	50 reactions
FD0774	FastDigest SspI	100 reactions
FD0784	FastDigest Bsp143I	40 reactions
FD0804	FastDigest HinfI	400 reactions
FD0814	FastDigest MboI	50 reactions
FD0824	FastDigest MboII	50 reactions
FD0834	FastDigest BspTI	150 reactions
FD0854	FastDigest Pfi23II	50 reactions
FD0874	FastDigest BseGI	100 reactions
FD0884	FastDigest BseNI	100 reactions



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Team up

Team up with great reagents and resources for your cloning and modifying enzyme workflows. Whatever your downstream applications are, it is critical to use reliable high-quality, high-purity reagents in your experiments. Here is a guide to help your team to produce reliable results faster!



To produce pure plasmid quickly, use Thermo Scientific™ GeneJET™ plasmid purification kits for short, simple protocols to enable easy isolation.

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For an all-inclusive cloning kit that comes with primers and a control, the Thermo Scientific™ CloneJET PCR Cloning Kit is a positive selection system that yields 99% recombinant clones in 5 minutes.

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Spotlight

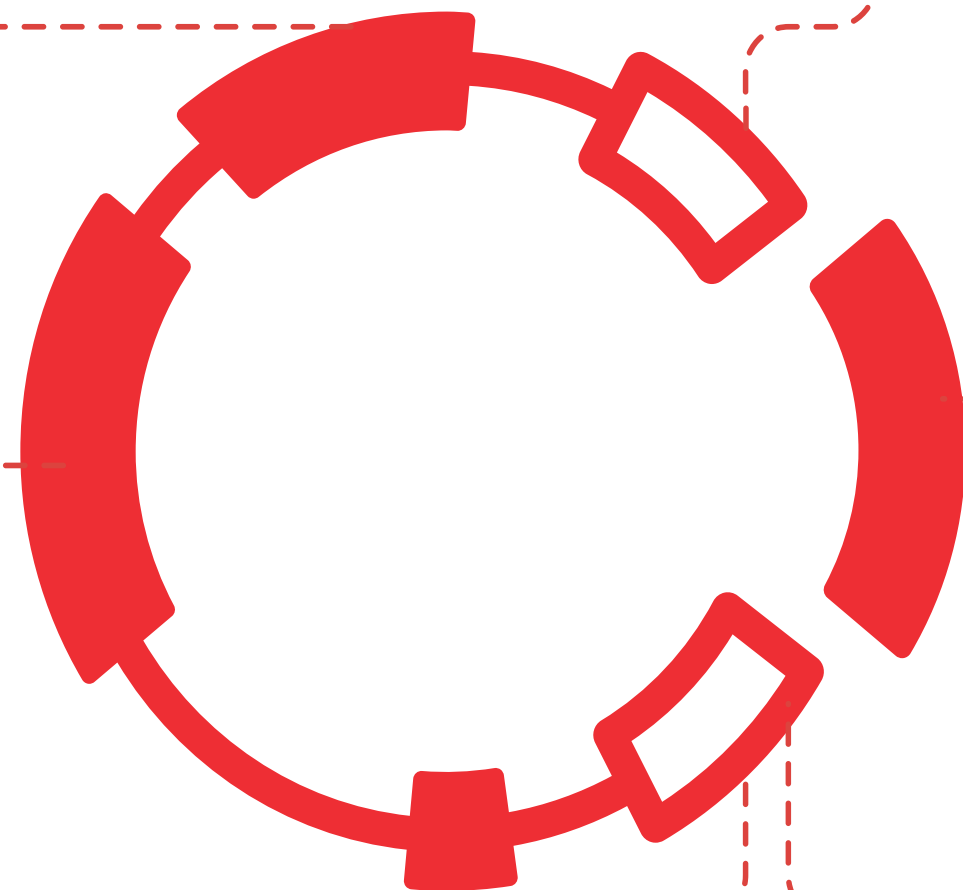
Check out our online collection of spotlight articles that highlight technical tips and tricks for your cloning and modifying enzyme workflows.

Articles include:

- 5 screening methods every scientist should know
- 5 cloning shortcuts from Thermo Scientific
- How Type IIS restriction enzymes can streamline your cloning

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Make your vector and insert a great team!



Efficient ligation is key to cloning success. The Thermo Scientific™ Rapid DNA Ligation Kit enables fast, efficient sticky-end or blunt-end DNA ligation in only 5 minutes at room temperature.

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To prevent recircularization of your linearized plasmid during ligation, use Thermo Scientific™ FastAP Alkaline Phosphatase, which is active in all Thermo Scientific restriction enzyme buffers and PCR buffers. It dephosphorylates all types of DNA ends (blunt, 5'- and 3'-overhangs) in 10 minutes at 37°C.

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DNA/RNA modifying enzymes, such as ligases, phosphatases, kinases and DNA polymerases have 100% activity in buffers designed for FastDigest restriction enzymes. Therefore, enzymes used in downstream applications can be directly added to the reaction mix. No buffer changes or purification steps are needed.

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To preserve sequence accuracy of your insert, use a high-fidelity DNA polymerase such as Thermo Scientific™ Phusion™ High-Fidelity DNA Polymerase to amplify your insert. If you are introducing point mutations, insertions, or deletions, the Thermo Scientific™ Phusion Site-Directed Mutagenesis Kit is a versatile and efficient tool.

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Meet our newest team members!

Our new Thermo Scientific™ DH10B, DH5α, and BL21(DE3) competent cells are produced with stringent quality control to deliver reliable, consistent performance in cloning workflows. Thermo Scientific™ DH10B competent cells are also available as kits with either CloneJET PCR Cloning Kit or Phusion Site-Directed Mutagenesis Kit.

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