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Tips, tools, and trusted products



Get an inside look at RNA workflow solutions

Lab tips

Recommended workflow products
Educational resources
Speaking of Mol Bio podcast

thermofisher.com/molbioinsights

More RNA solutions, more value Get what you need, from isolation to validation

While the fundamentals of molecular biology techniques are straightforward, there are many small details that can cause a seemingly simple experiment to fail. To help you avoid this frustration, here are some trusted products, tools, and tips to help you move forward in your research journey.







Rely on short, simple protocols to help isolate pure RNA quickly

Thermo Scientific™ GeneJET™ RNA purification kits are reliable and affordable tools for purification of total RNA.

thermofisher.com/genejet



Inside tip

Isolate RNA from many samples at once. Thermo Scientific™ KingFisher™ purification instruments automate the extraction and purification of DNA, RNA, proteins, and cells, helping save time and removing manual steps.

thermofisher.com/kingfisher



Inside tip

for different DNA polymerases with our online calculator.

thermofisher.com/tmcalculator



RNA synthesis

Enable strict specificity in your in vitro transcriptions

Thermo Scientific™ RNA polymerases used for in vitro transcription and synthesis of unlabeled and labeled RNA are available in a standard concentration (20 U/μL) and a high concentration (HC; >100 U/μL).

thermofisher.com/rnapolymerases



cDNA synthesis



Enable reliable and efficient cDNA synthesis in fast reaction times (15–30 minutes)

temperatures and RNA inputs (1 pg-2.5 µg).

thermofisher.com/maxima



Inside tip

prior to cDNA synthesis by agarose gel electrophoresis.

thermofisher.com/maximalabaid



Protect your RNA

RNA is degraded by RNases. Protect your RNA with Thermo Scientific™ RiboLock™

thermofisher.com/ribolock





Inside tip

synthesis. Get the troubleshooting guide for the

thermofisher.com/rttroubleshooting





Amplification



Accurate amplification and no optimization

for a universal annealing temperature—

thermofisher.com/phusionplus



Simplified reaction setup



Choosing your thermal cycler

Key to the success of your PCR cyclers help generate precise, consistent,





Eliminate buffer changes and purification steps

With Thermo Scientific™ FastDigest™ restriction enzymes, perform double and multiple digestion in one universal buffer. DNA-/RNA-modifying enzymes have 100% activity in an optimized Thermo Scientific™ FastDigest™ buffer.

thermofisher.com/fastdigest



Inside tip

Do you need an easy way to select high-quality, RNase-free certified PCR and gPCR plastics compatible with your instrument? Use our interactive selection tool to find exceptional plastics for your experiments.

Don't forget your primers

easy-to-use ordering portal.

thermofisher.com/oligos

Design and purchase through this

thermofisher.com/findplastics



High-efficiency PCR cloning in 5 minutes

Try the Thermo Scientific™ CloneJET™ PCR Cloning

thermofisher.com/tscloning







Get clear results

that can interfere with RNA quantification.

thermofisher.com/riboruler



Inside tip

Skip a step and avoid messy weighing with

thermofisher.com/topvision



Inside tip

Demo one today.

thermofisher.com/e-gel



	Recommended products	Quantity	Cat. No.
RNA isolation	GeneJET RNA Purification Kit	50 preps	K0731
	GeneJET RNA Purification Kit	250 preps	K0732
cDNA/RNA synthesis	RiboLock RNase Inhibitor (40 U/µL)	2,500 units	EO0381
	Maxima H Minus First Strand cDNA Synthesis Kit	20 reactions	K1651
	Maxima H Minus First Strand cDNA Synthesis Kit	100 reactions	K1652
	Maxima H Minus cDNA Synthesis Master Mix	50 reactions	M1661
	Maxima H Minus cDNA Synthesis Master Mix	200 reactions	M1662
	Maxima H Minus Reverse Transcriptase	2,000 units	EP0751
	Maxima H Minus Reverse Transcriptase	10,000 units	EP0752
	RevertAid First Strand cDNA Synthesis Kit	20 reactions	K1621
	RevertAid First Strand cDNA Synthesis Kit	100 reactions	K1622
Amplification	T7 RNA Polymerase (20 U/μL)	5,000 units	EP0111
	T3 RNA Polymerase (20 U/μL)	2,000 units	EP0101
	SP6 RNA Polymerase (20 U/μL)	2,000 units	EP0131
	DreamTaq DNA Polymerase	200 units	EP0701
	DreamTaq Green PCR Master Mix (2X)	200 reactions	K1081
	Phusion Plus DNA Polymerase	100 x 50 μL reactions	F630S
	Phusion Plus PCR Master Mix	100 x 50 μL reactions	F631S
	Tubes and Ultra Clear Caps, strips of 8	120 strips	AB1183
	EasyStrip Plus Tube Strip with Attached Flat Caps	250 strips	AB2000
	PCR Plate, 96-well, non-skirted	25 plates	AB0600
	PCR Plate, 96-well, semi-skirted, flat deck	25 plates	AB1400
	Armadillo PCR Plate, 96-well, clear frame, clear wells	25 plates	AB2396
	Adhesive PCR Plate Seals	100 sheets	AB0558
	Adhesive PCR Plate Foils	100 sheets	AB0626
Cloning	FastDigest HindIII	20 reactions	FD0504
	FastDigest Esp3l	20 reactions	FD0454
	FastDigest Notl	250 reactions	FD0596
	FastDigest Xhol	400 reactions	FD0694
	Rapid DNA Ligation Kit	150 reactions	K1423
	Phusion Site-Directed Mutagenesis Kit	20 reactions	F541
	CloneJET PCR Cloning Kit	20 reactions	K1231
	DH10B Competent Cells	10 x 100 μL	EC0113
	DH5α Competent Cells	10 x 100 μL	EC0112
Electrophoresis	RiboRuler Low Range RNA Ladder	5 x 20 μL	SM1831
	RiboRuler Low Range RNA Ladder, ready-to-use	5 x 40 μL	SM1833
	RiboRuler High Range RNA Ladder	5 x 20 μL	SM1821
	RiboRuler High Range RNA Ladder, ready-to-use	5 x 40 μL	SM1823
	TopVision Agarose Tablets	200 tablets (0.5 g each)	R2801

Master molecular biology

Looking to review molecular biology basics, gain confidence in technologies, or refresh your expertise? We have online educational resources to help you learn about cloning, PCR, reverse transcription, and more at your own pace and on your own time. Explore this one-stop education hub to help enrich yourself with technical knowledge.

thermofisher.com/mbschool



Online tools

Interactive online tools for PCR annealing temperature calculation, restriction enzyme selection, and more.

thermofisher.com/mbtools



On-demand webinars

Gain an in-depth understanding of molecular techniques and tools to help advance your research.

thermofisher.com/mbwebinars



When working in the lab, understanding your unique research strengths can help you work more efficiently and help drive your innovations forward.

Take the quiz and discover your #MolBioResearchStyle





For more information, go to thermofisher.com/molbioinsights