

# ISOLATE, AMPLIFY, AND DETECT NUCLEIC ACIDS

## Molecular Tools and Reagents for Your Research

Molecular tools and reagents are routinely used in labs around the world. Whether you are genome editing, isolating and amplifying nucleic acids, or preparing your samples for high-throughput sequencing, your samples are precious and require the most efficient and highest quality tools. Complete your workflow with a variety of molecular tools and reagents to support your research.

Learn more at [www.stemcell.com/molecular-tools.html](http://www.stemcell.com/molecular-tools.html).

### ArciTect™ CRISPR-Cas9 Genome Editing System

Perform high-efficiency genome editing with a ribonucleoprotein (RNP)-based system.

Learn more at [www.stemcell.com/ArciTect](http://www.stemcell.com/ArciTect).

Product	Size	Catalog #
ArciTect™ Cas9 Nuclease	100 µg	76002
	300 µg	76004
ArciTect™ Cas9-eGFP Nuclease	100 µg	76006
ArciTect™ Cas9 Nickase	100 µg	76009
ArciTect™ sgRNA	4 nmol	200-0013
ArciTect™ crRNA	2 nmol	76010
	10 nmol	76011
	20 nmol	76012
ArciTect™ tracrRNA Kit	5 nmol	76016
	10 nmol	76017
	20 nmol	76018
ArciTect™ T7 Endonuclease I Kit	25 Reactions	76021
	50 Reactions	76022
ArciTect™ Human HPRT Positive Control Kit	1 Kit	76013
ArciTect™ High-Fidelity DNA Polymerase Kit	1 Kit	76026
ArciTect™ Annealing Buffer (5X)	1 mL	76020

### Quantitative Real-Time PCR (qPCR) Kits

Prepare and detect DNA or RNA accurately with a variety of tools, including qPCR master mix, cDNA synthesis kit, and plasticware.

Analyze gene expression with qPCR arrays or use our hPSC Genetic Analysis Kit to rapidly determine the quality of your hPSC cultures by detecting the most common karyotypic abnormalities. Quickly analyze qPCR results with our online data tool at

[www.stemcell.com/qPCRanalysis](http://www.stemcell.com/qPCRanalysis).

Product	Size	Catalog #
hPSC Genetic Analysis Kit	1 Kit	07550
Human Pluripotent Stem Cell Trilineage Differentiation qPCR Array	384-well plate	07515
Human Pluripotent Stem Cell Naïve State qPCR Array	96-well plate	07521
Human Pluripotent Stem Cell-Derived Endoderm qPCR Array	96-well plate	07531
Human Mesenchymal Stem Cell qPCR Array	96-well plate	07541
qPCR Master Mix Kit	1 mL	07516
	5 mL	07517
Axygen® 70 µm Sealing Film for Quantitative Real-Time PCR (qPCR)	100 Films 500 Films	100-0078 38108
STEMscript™ cDNA Synthesis Kit with Oligo(dT) Primers or Random Primers	1 Kit	79003
		79004

## Nucleic Acid Purification Kits

Isolate and purify DNA or RNA from a variety of sources, including cultured cells and animal tissue, and purify DNA from gels or PCR amplification products.

Product	Size	Catalog #
Genomic DNA Purification Kit*	1 Kit	79020
Gel and PCR Clean-up Kit	1 Kit	79030
Total RNA Purification Kit*	1 Kit	79040
Proteinase K Solution	4 mL	79016
Costar® Microcentrifuge Tubes (Various)	250, 500, 1000, 5000 Tubes	Various

\*Note: This kit can be used following cell separation using EasySep™ kits.

## General Supplies

Stock up on everyday tools and reagents.

Product	Size	Catalog #
Corning® Filtered Pipette Tips (multiple formats)	960 Tips 1000 Tips	Various
Costar® Microcentrifuge Tubes (multiple formats)	250, 500, 1000, 5000 Tubes	Various
Corning® Lambda™ Plus Pipettor	Starter Kit 2, 10, 20, 200, 1000 µL	38063 Various
1 kb DNA Ladder	N/A	79017
DNA Loading Dye	N/A	79018
Axygen® Reagent Reservoir, 50 mL	200	38080
Axygen® PCR Tube Storage Rack with Lid, Spectrum Pack	25 Racks	38109
Falcon® Conical Tubes, 15 mL	50 Tubes 500 Tubes	100-009 38009
Falcon® Conical Tubes, 50 mL	50 Tubes 500 Tubes	100-0090 38010

## PCR Reagents

Amplify DNA for downstream sequencing, cloning, and other applications requiring ultra-low error rates by using ArciTect™ High-Fidelity DNA Polymerase Kit. Explore other routine PCR reagents, including DNA polymerase master mixes and plasticware.

Product	Size	Catalog #
ArciTect™ High-Fidelity DNA Polymerase Kit	1 Kit	76026
STEMtaq™ DNA Polymerase Master Mix Kit	100 Reactions 1000 Reactions	79009 79009.1
STEMtaq™ Hot Start DNA Polymerase Master Mix Kit	100 Reactions 1000 Reactions	79013 79013.1
Axygen® Thin-Wall PCR Tubes (multiple formats)	1000 Tubes 10,000 Tubes	Various
Axygen® 0.2 mL PCR Strip Tubes, 8 Tubes/Strip	125 Strips 1250 Strips	100-0077 38094
Axygen® PCR Strip Caps (Domed clear, flat clear, or flat-ultra clear)	1250 Strips	Various
Axygen® PCR Microplates (multiple formats)	50 Plates 100 Plates	Various
Axygen® AxyMats™ 96-Round-Well Sealing Mat for PCR Microplate	50 Mats	38107

For a complete list of related products, including specialized cell culture media, cell separation kits, antibodies, cytokines, small molecules, dissociation reagents, plasticware, or other general supplies, visit [www.stemcell.com](http://www.stemcell.com) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

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