

Hit the right notes in every step

Products in tune with your molecular biology workflows

invitrogen

Bringing workflow steps into harmony

Every experiment is a beautiful composition, with each step contributing to the final outcome of your research.

From sample preparation to amplification, analysis, and beyond, your workflow brings together a series of critical techniques that must perform in harmony. Our molecular biology solutions are designed to work easily across these steps, helping reduce complexity, improve consistency, and keep your focus on discovery.

This guide brings those elements together, connecting each stage of your workflow with purposefully selected products that help keep everything in sync. When each step works together, your workflow becomes easier to navigate and your results more reliable, so you can focus less on the process and more on advancing your science.

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Cloning from RT-PCR or PCR input

Create high-quality DNA constructs with key products that support simplified cloning workflows

RNA isolation → DNA isolation → Reverse transcription → PCR → Electrophoresis → Cloning → Transformation















RNA isolation

Applied Biosystems™ MagMAX™ *mir*Vana™ Total RNA Isolation Kit

Isolate total RNA, including small RNAs, across diverse samples with a scalable magnetic bead–based workflow.

- Phenol-free extraction
- Reproducible yields
- Flexible throughput

DNA isolation

Applied Biosystems™ MagMAX™ DNA Multi-Sample Ultra 2.0 Kit

Magnetic bead–based genomic DNA isolation across diverse sample types.

- Automation ready
- Stand-alone reagents for scalability
- Fast and efficient protocols

Reverse transcription

Invitrogen™ SuperScript™ V VILO™ Master Mix, primer free

Generate high-quality first-strand cDNA across a broad range of RNA inputs.

- Excellent performance with difficult samples
- Easy setup
- Flexible priming with convenience of master mix

PCR amplification

Applied Biosystems™ PowerFlex™ Thermal Cycler

Next-generation thermal cycler offering precise performance for labs of any throughput

- Screen multiple clones at once with independently controlled 3 × 32-well blocks
- Streamline automated clone analysis with fully skirted plate compatibility
- Accurate and reliable clone amplification with Applied Biosystems™ VeriFlex™ Blocks

Thermo Scientific™ PCR plastics, Sustain™ Series

Designed to offer reliable performance while reducing environmental impact.

- Same performance and reliability as standard PCR plastics
- Certified free of DNases, RNases, human DNA, and PCR inhibitors
- Reduced carbon footprint using bio-based polypropylene

Invitrogen™ Platinum™ SuperFi™ II DNA Polymerase

Engineered for exceptional accuracy and robust amplification of GC-rich targets, long sequences, and challenging DNA samples.

- >300x *Taq* fidelity
- Universal primer annealing
- Amplify long fragments up to 20 kb

Electrophoresis

Invitrogen™ E-Gel™ Power Snap Electrophoresis System

Integrated electrophoresis and imaging system for DNA fragment analysis and clone verification.

- Real-time visualization
- All-in-one run and imaging
- Fragment confirmation

Invitrogen™ E-Gel™ CloneWell™ II Agarose Gels

Specialized electrophoresis gels for direct DNA fragment recovery in cloning workflows.

- Direct DNA recovery
- No gel extraction
- Targeted fragment isolation

Cloning

Thermo Scientific™ FastDigest™ restriction enzymes

High-performance enzymes that enable rapid digestion in a single universal buffer.

- 5–15 min reactions
- No star activity
- 176 enzymes with one buffer

Transformation and colony screening

Invitrogen™ TOP10 competent cells

High-efficiency transformation and reliable plasmid propagation for routine cloning applications.

- High efficiency
- Chemically competent or electrocompetent
- Flexible throughput formats

Invitrogen™ Platinum™ Direct PCR Universal Master Mix

Amplify target DNA from crude samples.

- Skip DNA purification when screening colonies
- Fast DNA synthesis
- Universal primer annealing

Applications in action

- Technical note: Rapid transformation protocol of chemically competent *E. coli* cells
- Protocol: Fast and easy preparation of vectors for cloning experiments
- White paper: Evaluation of GeneArt Gibson Assembly technology with large PCR fragments

Cited in research

- Article: High-concentration monoclonal antibody development
- Citations: Platinum SuperFi DNA Polymerases

Technical deep dive

- Specification sheet: PowerFlex Thermal Cycler
- Protocol: Site-directed mutagenesis using the GeneArt Gibson Assembly kit
- White paper: Cloning with FastDigest restriction enzymes
- Application note: Multiplex PCR with Platinum SuperFi II DNA Polymerase

Keep exploring: educational content

- Protocol: Transforming chemically competent cells
- Application notes: SuperScript reverse transcription products
- Article: How to simplify PCR optimization steps for primer annealing

Gene expression analysis by RT-qPCR

Move from RNA to meaningful gene expression insights with a set of products designed for accuracy, sensitivity, and reproducibility

RNA isolation → Reverse transcription → qPCR → Electrophoresis (optional QC)

RNA isolation

Applied Biosystems™ MagMAX™ *mir*Vana™ Total RNA Isolation Kit

Isolate total RNA, including small RNAs, across diverse samples with a scalable magnetic bead workflow.

- Phenol-free extraction
- Reproducible yields
- Flexible throughput



Reverse transcription

Invitrogen™ SuperScript™ V VILO Master Mix

Generate high-quality cDNA with an all-in-one master mix in a simplified workflow.

- **Robust performance across sample types**
- **Sensitivity to 100 fg**
- **Superb stability**



Workflow tip

Fast-track gene expression analysis using Invitrogen™ Cells-to-C_t™ kits. Cells-to-C_t kits enable a complete workflow for RT-qPCR analysis directly from cultured cells. Learn more at thermofisher.com/cellstoct.

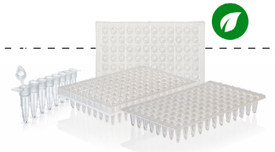
qPCR

Applied Biosystems™ QuantStudio™ Real-Time PCR Systems

Enhanced sensitivity and performance to help achieve your research goals.

- **High sensitivity and wide dynamic range with as low as 1.5-fold discrimination and up to 10 logs of dynamic range**
- **Applied Biosystems™ VeriFlex™ technology allows you to run multiple optimizations simultaneously**
- **Interchangeable blocks to meet your throughput and format needs**





Thermo Scientific™ PCR plastics, Sustain™ Series

Designed for reliable qPCR setup with certified purity, consistent performance, and reduced environmental impact using bio-based polypropylene.

- **Same performance and reliability as standard PCR plastics**
- **Certified free of DNases, RNases, human DNA, and PCR inhibitors**
- **Reduced carbon footprint using bio-based polypropylene**

Applied Biosystems™ TaqMan™ Assays for real-time and digital PCR

Over 20 million predesigned assays ready for use.

- **Guaranteed performance* to support your research needs**
- **Supported by over 296,000 citations**
- **Custom configurations are available along with custom probes and primers**

* Terms and conditions apply. See full terms and conditions here.

Workflow tip

We offer a broad range of instruments, reagents, and assays for qPCR analysis. See our gene expression and genetic analyses solutions at thermofisher.com/qpcr.

Electrophoresis (optional QC)

Invitrogen™ E-Gel™ Power Snap Plus Electrophoresis System

Compact electrophoresis system for rapid RNA and cDNA verification prior to qPCR and optional visualization of bands after qPCR.

- **Fast sample check**
- **Simple workflow setup**
- **Integrated run and imaging**

Invitrogen™ E-Gel™ EX Agarose Gels

High-sensitivity electrophoresis gels for detecting low-abundance RNA and cDNA samples.

- **High-sensitivity detection**
- **Low-input samples**
- **Fast results**



Applications in action

- Application note: Exceptional gene expression analysis directly from cell lysates

Technical deep dive

- Flyer: PowerFlex Thermal Cycler
- Specification sheet: PowerFlex Thermal Cycler
- Green fact sheet: PCR plastics, Sustain Series

Keep exploring: educational content

- Videos and more: PCR thermal cyclers education
- Application notes: SuperScript reverse transcription products

Genotyping by electrophoresis

From DNA isolation to fragment analysis, bring harmony to genotyping workflows with reagents and instruments designed to work together

DNA isolation → PCR → Analytical electrophoresis



DNA isolation

Applied Biosystems™ MagMAX™ DNA Multi-Sample Ultra 2.0 Kit

Magnetic bead–based genomic DNA isolation across diverse sample types.

- Automation ready
- Stand-alone reagents for scalability
- Fast and efficient protocols

PCR amplification

Invitrogen™ Platinum™ II *Taq* Hot-Start DNA Polymerase

Engineered for higher specificity and sensitivity by minimizing nonspecific amplification.

- Hot-start enzyme activity
- Universal primer annealing
- Benchtop stability



Applied Biosystems™ PowerFlex™ Thermal Cycler

Next-generation thermal cycler designed for precise performance, broad compatibility, and enhanced lab productivity.

- Process large sample sets with high-throughput block configurations
- Achieve consistent genotype calls with precise thermal control and uniformity
- Optimize genotyping assays with Applied Biosystems™ VeriFlex™ Blocks technology for accurate temperature control



Thermo Scientific™ PCR plastics, Sustain™ Series

Support consistent genotyping PCR setup with certified-clean plates, tubes, and strips designed for reliable amplification and reduced environmental impact.

- Same performance and reliability as standard PCR plastics
- Certified free of DNases, RNases, human DNA, and PCR inhibitors
- Reduced carbon footprint using bio-based polypropylene



Electrophoresis

Invitrogen™ E-Gel™ Power Snap Plus Electrophoresis System

All-in-one electrophoresis system with integrated imaging for streamlined DNA analysis.

- Band size analysis
- Integrated workflow
- Multi-sample screening

Invitrogen™ E-Gel™ 48 and 96 Agarose Gels

High-throughput precast gels for efficient fragment separation and sample screening.

- 96-sample capacity
- Rapid run times
- Consistent results

Applications in action

- Application note: Amplify DNA targets up to 4 kb in under 40 minutes
- Application note: Simple and fast genotyping workflow

Cited in research

- Citations: Platinum II *Taq* Hot-Start DNA Polymerase

Technical deep dive

- White paper: Platinum II *Taq* Hot-Start DNA Polymerase for high-throughput PCR
- Green fact sheet: PCR plastics, Sustain Series

Keep exploring: educational content

- Mini webinar: Mastering DNA polymerase selection—tailoring your enzyme for PCR success
- Tips: How to perform quick mouse genotyping

Sequencing from RT-PCR or PCR input

Support preparation of high-quality libraries for next-generation sequencing (NGS) applications

RNA isolation → DNA isolation → Reverse transcription → PCR → Sequencing preparation

RNA isolation

Applied Biosystems™ MagMAX™ *mir*Vana™ Total RNA Isolation Kit

Isolate total RNA, including small RNAs, across diverse samples with a scalable magnetic bead workflow.

- Phenol-free extraction
- Reproducible yields
- Flexible throughput





Workflow tip

Use Invitrogen™ Qubit™ fluorometers and assays to quantitate DNA or RNA after isolation and help ensure appropriate input into downstream reactions. Quantitation after PCR can also help support consistent input into sequencing preparation.

thermofisher.com/qubit

DNA isolation

Applied Biosystems™ MagMAX™ DNA Multi-Sample Ultra 2.0 Kit

Magnetic bead–based genomic DNA isolation across diverse sample types.

- Automation ready
- Stand-alone reagents for scalability
- Fast and efficient protocols



Reverse transcription

Invitrogen™ SuperScript™ IV Single Cell/Low Input cDNA PreAmp Kit

Designed for efficient cDNA synthesis and preamplification directly from intact single cells or low amounts of total RNA..

- One-tube protocol
- High-quality cDNA for full-length transcript information
- Template-switching technology

Workflow tip

cDNA synthesis can be performed directly from intact single cells (1–1,000) with the SuperScript IV Single Cell/Low Input cDNA Preamp Kit. RNA isolation is not mandatory.

PCR amplification

Invitrogen™ Platinum™ SuperFi™ II DNA Polymerase

Engineered for exceptional accuracy and robust amplification of GC-rich targets, long sequences, and challenging DNA samples.

- >300x *Taq* fidelity
- Universal primer annealing
- Amplify long fragments up to 20 kb



Thermo Scientific™ PCR plastics, Sustain™ Series

Support reliable PCR amplification for NGS library preparation with certified-clean plastics designed for consistent results and reduced environmental impact.

- Same performance and reliability as standard PCR plastics
- Certified free of DNases, RNases, human DNA, and PCR inhibitors
- Reduced carbon footprint using bio-based polypropylene

Applied Biosystems™ PowerFlex™ Thermal Cycler

Designed for precise performance, broad compatibility, and enhanced lab productivity.

- Generate high-quality sequencing libraries with consistent PCR amplification
- Support high-throughput library preparation with flexible block configurations
- Optimize library amplification with Applied Biosystems™ VeriFlex™ technology for reliable library preparation



Sequencing preparation



Electrophoresis

Invitrogen™ E-Gel™ Power Snap Lite Electrophoresis System

Integrated electrophoresis and imaging system that supports analysis and preparation of NGS libraries.

- Run and visualize libraries for NGS
- Integrated workflow
- Supports size selection

Invitrogen™ E-Gel™ SizeSelect™ II Agarose Gels

Precast agarose gels for precise DNA fragment recovery in NGS library preparation.

- Direct DNA recovery
- Precise size selection
- No repurification

Applications in action

- Application note: Direct cDNA synthesis from single spheroids and primary cell samples

Cited in research

- Citations: Platinum SuperFi DNA Polymerases

Technical deep dive

- White paper: Efficient global preamplification via the SuperScript IV Single-Cell/Low-Input cDNA PreAmp Kit
- Application note: Multiplex PCR with Platinum SuperFi II DNA Polymerase
- Specification sheet: PowerFlex Thermal Cycler

Keep exploring: educational content

- Guides and resources: Direct reverse transcription
- Q&A: How to simplify PCR optimization steps for primer annealing

Pathogen detection

Rapidly detect and verify nucleic acid targets with key products designed for multiplexing and high-throughput analysis

Nucleic acid isolation → Reverse transcription → PCR → Analytical electrophoresis

Nucleic acid isolation

Applied Biosystems™ MagMAX™ Prime Viral/Pathogen NA Isolation Kit

Magnetic bead–based isolation of viral, bacterial, parasitic, and fungal nucleic acids from human biological specimens.

- Flexible and streamlined workflows
- Advanced formulation for greater assay sensitivity
- Automation-ready





Reverse transcription

Invitrogen™ SuperScript™ IV UniPrime™ One-Step RT-PCR System

Perform reverse transcription and cDNA amplification in a single tube.

- Fewer steps
- Multiplexing capability
- Universal primer annealing

Isothermal amplification

When PCR isn't practical, think isothermal.

Bring rapid nucleic acid detection closer to the point of need with isothermal amplification solutions for pathogen detection in the field and at the source.

thermofisher.com/isothermal

Workflow tip

If DNA is the target for pathogen detection, use Invitrogen™ Platinum™ Direct PCR Universal Master Mix. Skip DNA isolation and amplify from crude sample.

PCR amplification

Applied Biosystems™ PowerFlex™ Thermal Cycler

Next-generation thermal cycler designed for precise performance, broad compatibility, and enhanced lab productivity.

- Generate consistent pathogen detection results with precise thermal control
- Process high-throughput testing workflows with flexible block configurations
- Enhance pathogen detection assays using Applied Biosystems™ VeriFlex™ Blocks for reproducible results

Thermo Scientific™ PCR plastics, Sustain™ Series

Designed for reliable performance and reduced environmental impact.

- Same performance and reliability as standard PCR plastics
- Certified free of DNases, RNases, human DNA, and PCR inhibitors
- Reduced carbon footprint using bio-based polypropylene



Electrophoresis

Invitrogen™ E-Gel™ Power Snap Plus Electrophoresis System

Integrated electrophoresis system for rapid verification of nucleic acid amplification across large sample sets.

- Rapid confirmation of results
- Integrated workflow
- High-throughput capability

Invitrogen™ E-Gel™ 48 and 96 Agarose Gels

High-throughput electrophoresis gels for analyzing large volumes of pathogen samples.

- 96-sample capacity
- Fast sample analysis
- Scalable workflows



Applications in action

- Slide deck: Detection of bacteria with Platinum Direct PCR Universal Master Mix
- Application note: One-step RT-PCR protocol for amplicon-based viral genome sequencing
- Application note : Real-time LAMP for the detection of human pathogen DNA using SuperScript IV RT-LAMP Master Mix
- Application note : Using SuperScript IV RT-LAMP Master Mix to detect DNA from fungal and fungus-like plant pathogens

Cited in research

- Citations: Platinum Direct PCR Universal Master Mix
- Citations: SuperScript One-Step RT-PCR Systems

Technical deep dive

- White paper: Platinum II *Taq* Hot-Start DNA Polymerase for high-throughput PCR
- Brochure: SuperScript IV UniPrime One-Step RT-PCR System
- Green fact sheet: PCR plastics, Sustain Series

Keep exploring: educational content

- Tips: cDNA synthesis protocol in five steps
- Selection guide: Find high-quality OEM enzymes optimized for molecular assay development

Sustainable workflow solutions

Greener by Design™ program

Explore molecular biology solutions designed to help reduce environmental impact by minimizing waste, consumable use, hazardous chemicals, and energy consumption, all while supporting your research with trusted performance.



Workflow step	Product	Green features	Benefits
Sample preparation	Invitrogen™ Cells-to-C_T™ kits	Less hazardous: no ethanol, 2-mercaptoethanol, or chaotropic salts needed Less waste: generates 96% less plastic waste More energy efficient: ambient storage for Cells-to-C_T Express family of kits	Streamline sample preparation by eliminating RNA purification, helping you move from cells to gene expression results faster.
DNA cleanup for NGS	Applied Biosystems™ MagMAX™ Pure Bind Beads	More energy efficient: ambient storage	Simplify DNA cleanup and size selection with a magnetic bead workflow designed for efficient, high-quality NGS library preparation.
Plasmid preparation	Applied Biosystems™ MagMAX™ Pro HT NoSpin Plasmid MiniPrep Kit	More energy efficient: workflow uses 48% less energy than a comparable product Responsibly packaged: uses 79% less packaging than a comparable product	Accelerate plasmid purification with a no-spin workflow that improves throughput and simplifies automation.
Reverse transcription	Invitrogen™ SuperScript™ IV CellsDirect™ cDNA Synthesis Kit	Less hazardous: eliminates the need for ethanol, mercaptoethanol, and guanidine salts Less waste: generates 98% less plastic waste than traditional RNA extraction workflows	Generate cDNA directly from cells with fewer workflow steps and less hands-on time.
PCR	Invitrogen™ Platinum™ Direct PCR Universal Master Mix	Less hazardous: does not require ethanol, beta-mercaptoethanol, or guandidine salts Less waste: generates 99% less plastic waste than traditional DNA extraction workflows	Amplify targets directly from crude samples to simplify PCR workflows and reduce sample preparation time.
	Applied Biosystems™ PowerFlex™ Thermal Cycler	Less waste: generates up to 37% less waste at end of life than prior models and contains recycled polycarbonate and ABS content More energy efficient: uses up to 45% less energy when in sleep mode than prior models	Enable high-performance PCR with flexibility and productivity for modern labs.
PCR and qPCR	Thermo Scientific™ Sustain™ Series PCR Plastics	Less waste; renewable material: polypropylene used in PCR plastics consists of ISCC PLUS–certified, second-generation, biobased material, reducing carbon dioxide equivalents (CO_2e) by 3.43 kg per kg of biobased polypropylene	Maintain trusted PCR performance while supporting your laboratory's sustainability goals.
Electrophoresis	Invitrogen™ E-Gel™ and standard DNA ladders	Less waste: no dry or wet ice or expandable polystyrene (EPS) coolers Responsibly packaged: less energy to produce; decreased fuel consumption and greenhouse gas emissions required for transport; improved freight density	Simplify electrophoresis with ready-to-use ladders that reduce preparation time and improve workflow efficiency.

Sustainability resources

Discover the sustainability benefits of each solution through our green fact sheets.

- Cells-to-C_T kits
- MagMAX Pure Bind magnetic beads
- MagMAX Pro HT NoSpin Plasmid MiniPrep Kit
- SuperScript IV CellsDirect cDNA Synthesis Kit
- Platinum Direct PCR Universal Master Mix
- PowerFlex Thermal Cycler
- PCR plastics, Sustain Series
- E-Gel and standard DNA ladders



Selecting products by family

Behind every successful workflow is a set of tools working together in sync.

Once you've mapped your approach, the next stage is selecting the right solutions for each step. From sample preparation and reverse transcription to amplification, analysis, and beyond, each product family plays a distinct role in delivering consistent, reliable results.

This section is designed to help you navigate those choices—comparing options, understanding key differences, and identifying what's best suited for your workflow.

Because when the right tools come together, every step performs in harmony—and your science moves forward with confidence.

Magnetic bead–based nucleic acid isolation

Efficient purification solutions for molecular biology workflows

Enable fast, reliable extraction of nucleic acids with scalable automated workflows designed to support research, clinical, and high-throughput laboratory applications.

Learn more at thermofisher.com/magmax









Product	Applied Biosystems™ MagMAX™ DNA Multi-Sample Ultra 2.0 Kit	Applied Biosystems™ MagMAX™ *mir*Vana™ Total RNA Isolation Kit	Applied Biosystems™ MagMAX™ Prime Viral/Pathogen NA Isolation Kit	Thermo Scientific™ KingFisher™ automated purification systems
Used for	Automatable, high-quality genomic DNA extraction from a wide variety of sample types	Automatable total RNA isolation from diverse sample types	Automatable viral/pathogen nucleic acid isolation	Automated magnetic particle processing for purification of DNA, RNA, protein, cells, and exosomes
Best for	Scalable genomic DNA extraction from blood, bone marrow, saliva, buccal swabs, buffy coat, blood cards, cells, and tissues	Isolation of total RNA including small RNAs from cells, plasma, serum, tissues, urine, and blood	Isolation of viral, bacterial, fungal, and parasitic nucleic acids from a variety of biological samples	Automated high-throughput purification workflows with minimal hands-on time
Typical applications	• qPCR • NGS • Genotyping • Microarray analysis	• miRNA analysis • Transcriptomics • RT-qPCR • RNA sequencing	• Infectious disease testing • Pathogen surveillance • Molecular diagnostics development • qPCR, NGS	• DNA or RNA extraction • Protein purification • Cell isolation • Translational and research workflows
Benefits	Fast automated processing, scalable throughput, consistent high-yield gDNA purification	Recovery of high-quality total RNA and small RNAs with reproducible yields and automation compatibility	Reliable purification of low-abundance pathogen nucleic acids with automation compatibility	Reproducible purification, reduced manual handling, flexible throughput, broad sample compatibility
Key differentiator	Processes multiple sample types with one streamlined workflow across various molecular biology applications	Efficient recovery of both large and small RNAs in a single workflow; variety of samples processed from one kit	Broad pathogen coverage with optimized magnetic bead chemistry for sensitive detection	Flexible automation platform compatible with a wide range of Applied Biosystems™ MagMAX™ purification kits
Available configurations	• Single kit (reactions vary by sample type) • Bulk stand-alone reagents • For cells and tissues: Applied Biosystems™ MagMAX™ DNA Ultra 2.0 with Cell and Tissue Extraction Buffer (Cat. No. A45721) • Thermo Scientific™ KingFisher™ Duo-Ready prefilled plates (Cat. No. A36584, A36586) • For complex genomic applications requiring larger fragment sizes: Applied Biosystems™ MagMAX™ HMW DNA Kit and Booster (Cat. No. A36624, A36625)	• Single kit (up to 96 reactions) • Stand-alone reagents	• Single kit (up to 600 reactions) • Stand-alone reagents • Prefilled plates designed to work with Thermo Scientific™ KingFisher™ systems (Cat. No. A58146PF)	• Thermo Scientific™ KingFisher™ Duo Prime system: 6–12 samples • Thermo Scientific™ KingFisher™ Flex system: 24–96 samples • Thermo Scientific™ KingFisher™ Apex system: 24–96 samples

Get started

- Brochure: A complete guide to automated sample preparation
- Selection tool: KingFisher sample purification kits, reagents, and protocols
- Selection guide: MagMAX kits and KingFisher instruments
- Video: Move to the bead

Order and configure

- Flyer: Magnetic bead–based sample preparation solutions
- Overview: Automated nucleic acid extraction with MagMAX kits

Don't forget

- Thermo Scientific™ KingFisher™ plastics
- Lab supplies for sample preparation

Request and connect

- Request a KingFisher instrument demo or quote
- Inquire about custom solutions and OEM partnerships

Spin column nucleic acid purification

Reliable column-based nucleic acid purification for everyday research

Simplify DNA, RNA, and viral nucleic acid sample preparation with streamlined purification kits designed for consistent performance across research applications and sample types.

Learn more at **thermofisher.com/purelink**







Product	Invitrogen™ PureLink™ Genomic DNA Mini Kit	Invitrogen™ PureLink™ RNA Mini Kit	Invitrogen™ PureLink™ Viral RNA/DNA Mini Kit
Used for	Genomic DNA purification from a wide range of sample types	Total RNA purification from a wide range of sample types	Viral RNA and DNA purification from biological fluids
Best for	Rapid purification of high-quality genomic DNA from a variety of sample types	Purification of total RNA from cells, tissues, blood, bacteria, plants, and yeast for downstream gene expression analysis	Purification of viral nucleic acids from serum, plasma, and other cell-free biological fluids, as well as cell culture supernatants
Typical applications	• PCR, qPCR • Genotyping • Sequencing • Cloning	• RT-qPCR • RNA sequencing • Gene expression profiling • Transcriptomics	• Viral detection • Infectious disease research • qPCR, RT-qPCR • Sequencing
Benefits	Fast purification workflow, high DNA purity and yield, minimal hands-on time	Consistent RNA recovery with low genomic DNA contamination and reliable downstream performance	Sensitive recovery of viral nucleic acids with streamlined processing and inhibitor removal
Key differentiator	Optimized silica-membrane chemistry facilitates reproducible DNA purification across diverse sample types	Efficient purification of intact RNA suitable for sensitive downstream applications	Designed for low viral titers and compatible with a variety of sample types
Available configurations	• Kit formats: 10, 50, or 250 preps	• Kit formats: 10, 50, or 250 preps • Homogenizer: 50 cartridges • RNA mini columns: 50 cartridges	• Kit formats: 50 preps

Get started

- Brochure: DNA reference guide
- Brochure: RNA reference guide

Order and configure

- Selection guides and data: PureLink solutions

Don't forget

- Lab supplies for sample preparation

Extraction-free RT-qPCR

Streamlined RT-qPCR workflows directly from cells

Accelerate RT-qPCR analysis with streamlined sample preparation kits that enable sensitive gene expression profiling directly from cultured cells and hepatocyte samples—without RNA purification.

Learn more at **thermofisher.com/cellstoct**







Product	Invitrogen™ TaqMan™ Cells-to-C_T™ Express Kit	Invitrogen™ TaqMan™ Cells-to-C_T™ HepatoExpress™ Kit	Invitrogen™ TaqMan™ Cells-to-C_T Express 1-Step Kit
Used for	Direct workflow from cell lysate to RT-qPCR for cultured cells	Direct workflow from cell lysate to RT-qPCR for liver-derived cells	Direct workflow from cell lysate to RT-qPCR for cultured cells in a 1-step format
Best for	Rapid gene expression analysis directly from cultured mammalian cells without RNA purification	Gene expression analysis directly from primary hepatocytes and other liver-derived cells without RNA purification	Rapid gene expression analysis directly from cultured mammalian cells without RNA purification
Typical applications	• RT-qPCR • Gene expression profiling • Pathway analysis • Cell-based assays	• Hepatotoxicity studies • ADME/Tox research • Liver pathway analysis • RT-qPCR	• RT-qPCR • Gene expression profiling • Pathway analysis • Cell-based assays
Benefits	Streamlined workflow, reduced sample handling, faster turnaround time, and reproducible RT-qPCR results	Optimized performance with sensitive liver cell types while minimizing sample preparation time	Streamlined 1-step workflow, reduced sample handling and sample loss, faster turnaround time, and reproducible RT-qPCR results
Key differentiator	Eliminates RNA purification steps by enabling direct RT-qPCR from cell lysates	Specifically optimized for hepatocytes and other challenging liver-derived cell samples	Eliminates RNA purification steps completely by enabling direct 1-step to RT-qPCR from cell lysate
Available configurations	• 40, 100, 400, and 2,500 reactions	• 40, 100, and 400 reactions • 2,500 reactions (lysis only)	• 40, 100, 400, and 2,500 reactions

Get started

- Video: Cells-to-C_T RT-qPCR overview
- Find your kit: Cells-to-C_T selection tool
- Brochure: Cells-to-C_T kits

Order and configure

- Flyer: Fast-track gene expression analysis from hepatocytes

Don't forget

- Lab supplies for sample preparation

SuperScript reverse transcriptases

From RNA to cDNA: robust solutions for your research

Engineered for excellent performance and simplified workflows—enabling high cDNA yield and fast results from every sample.

Learn more at thermofisher.com/superscript



Product	Invitrogen™ SuperScript™ V Reverse Transcriptase	Invitrogen™ SuperScript™ V VILO™ Master Mix	Invitrogen™ SuperScript™ IV UniPrime™ One-Step RT-PCR System	Invitrogen™ SuperScript™ IV Single Cell/Low-Input cDNA PreAmp Kit	Invitrogen™ SuperScript™ IV CellsDirect™ cDNA Synthesis Kit
Used for	High-quality, full-length cDNA production across a broad range of sample types	cDNA synthesis and integrated gDNA removal in a convenient, ready-to-use format	Reverse transcription and subsequent PCR step performed in a single tube	cDNA synthesis and amplification directly from intact single cells or low-input RNA	First-strand cDNA synthesis directly from mammalian cell lysate
Best for	High performance and flexible reaction setup	First-strand cDNA synthesis for two-step RT-qPCR	Fast and simple RT-PCR workflow	cDNA synthesis and global preamplification from single cells or low quantities of RNA	Direct cDNA synthesis from mammalian cells, without RNA isolation
Typical applications	• RT-PCR • RT-qPCR • RNA sequencing	• RT-PCR • RT-qPCR	• One-step RT-PCR	• Single-cell RNA sequencing (scRNA-Seq) • RT-qPCR	• RT-PCR • RT-qPCR
Benefits	• Generates high-quality cDNA in as little as 1–10 minutes	• Maintains linearity across a wide range of target inputs • Fast, easy, and RNA-friendly gDNA removal in some formats	• Minimal optimization steps • Universal annealing technology enables primer annealing at 60°C	• Full-length cDNA from long and rare transcripts • Terminal deoxynucleotidyl transferase (TdT) activity enabling ligation-free incorporation of adapter sequences	• Easy-to-use kit format • Lysis and reverse transcription performed in the same tube
Key differentiator	• Room temperature setup and up to 24 hours of benchtop stability • Ambient shipment	• Simplified, error-resistant workflow with all-in-one master mix	• Room temperature setup and up to 24 hours of benchtop stability • Some formats allow color tracking of reaction progress	• Single-tube format minimizes reagent loss, sample loss, and handling time	• RNA isolation is skipped
Available configurations	• Stand-alone enzyme	• Master mix • Master mix, with gDNA removal	• Colored buffers for visual tracking • Dye-free buffers	• Invitrogen™ SuperScript™ IV Single Cell/Low-Input cDNA PreAmp Kit • Invitrogen™ SuperScript™ IV Template Switching RT Master Mix	• Single kit

Get started

- Manual: SuperScript V Reverse Transcriptase
- Manual: SuperScript V VILO Reverse Transcriptase

Order and configure

- SuperScript reverse transcriptases

Don't forget

- Invitrogen™ RNase inhibitors
- Invitrogen™ oligo(dT) and random DNA primers

Request and connect

- Request a sample

Platinum DNA polymerases

DNA polymerases built for high sequence accuracy

Engineered hot-start polymerases featuring high fidelity, robust amplification, and universal primer annealing.

Learn more at thermofisher.com/pcrenzymes







Product	Invitrogen™ Platinum™ SuperFi™ II DNA Polymerase	Invitrogen™ Platinum™ II *Taq* Hot-Start DNA Polymerase	Invitrogen™ Platinum™ Direct PCR Universal Master Mix
Used for	Preserving sequence accuracy due to >300x fidelity of *Taq* enzyme	Fast and specific PCR with extension times as short as 15 sec/kb	Amplification directly from crude samples, without the need to purify DNA
Best for	High-fidelity, long-range, or multiplex PCR; NGS preamplification	Hot-start or GC-rich PCR, high-throughput PCR screening, colony PCR	Direct PCR
Typical applications	For high-fidelity applications: • Cloning • Sequencing • Mutagenesis • Template generation for NGS • CRISPR cloning and screening	For standard applications: • Gene detection • Genotyping • Low copy number amplification	• Genotyping • Colony screening • Analysis of gene-edited cells
Benefits	• Robust amplification of GC-rich targets, DNA of suboptimal purity, and long sequences • Universal primer annealing	• Combines fast PCR cycling, exceptional specificity, and consistent high-yield amplification • Universal primer annealing	• Simplified workflow helps save time • Master mix comes with direct gel-loading dye • Amplification can occur from very limited sample amount • Universal primer annealing
Key differentiator	>300x *Taq* fidelity	Fast PCR protocol	Skip DNA isolation and purification
Available configurations	100, 500, and 5 x 500 reactions	100, 500, 2,500, and 4 x 2,500 reactions	100, 500, and 4 x 500 reactions

Workflow tip

Using a DNA polymerase or master mix with universal primer annealing enables a single annealing temperature of 60°C across a broad range of primer sets, eliminating the need for assay-specific annealing temperature optimization. By streamlining PCR setup, it simplifies workflows and allows assays with different primer sets and amplicon lengths to be co-cycled using a single universal protocol.

Get started

- User guide: Platinum SuperFi II DNA Polymerase
- Technical note: Amplify DNA targets up to 4 kb in under 40 minutes
- User guide: Platinum Direct PCR Universal Master Mix
- User guide: Platinum II *Taq* Hot-Start DNA Polymerase

Order and configure

- Selection guide: Find high-quality OEM enzymes optimized for molecular assay development
- Selection tool: PCR enzymes

Don't forget

- Thermo Scientific™ dNTPs
- Invitrogen™ *Taq* DNA Polymerase PCR Buffer
- Invitrogen™ UltraPure™ DNase/RNase-Free Distilled Water

Request and connect

- Request a sample: Platinum SuperFi II DNA Polymerase
- Request a sample: Platinum II *Taq* Hot-Start DNA Polymerase
- Request a sample: Platinum Direct PCR Universal Master Mix

PCR thermal cyclers

An instrument for every challenge, application, and budget

Thermal cyclers designed for reliable performance and intuitive operation.

Learn more at thermofisher.com/thermalcyclers











Product	Applied Biosystems™ PowerFlex™ Thermal Cycler	Applied Biosystems™ VeritiPro™ Thermal Cycler	Applied Biosystems™ MiniAmp™ Thermal Cycler	Applied Biosystems™ Automated Thermal Cycler	Applied Biosystems™ VeritiPro™ Dx Thermal Cycler*
Used for	PCR applications requiring exceptional performance, compatibility, and productivity	Routine PCR, designed with quiet operation and reliable performance in mind	Routine PCR	Robotic integration enabling hands-free PCR	Labs requiring an *in vitro* diagnostic (IVD), IVDR-compliant thermal cycler
Best for	Multi-user labs, high-throughput workflows, flexible experiment setups, assay development	Routine PCR workflows	Value-focused labs, teaching labs	Automated workflows, easy robotic integration	Clinical or diagnostic workflows, regulated environments, IVD applications
Typical applications	• Sequencing, NGS • Genotyping • Cloning • Mutagenesis • Multiplex PCR • Gradient PCR • Automation	• Sequencing • Genotyping • Cloning • Mutagenesis • Gradient PCR	• DNA fragment amplification	• Automation	• IVDR-compliant workflows
Benefits	• Precise temperature gradient control • High flexibility across formats • Scalable throughput	• Reliable, repeatable results • Quiet operation	• Reliable performance • Compact design	• Seamless automation integration	• Validated system for diagnostics • Regulatory-compliant performance
Key differentiator	Highly adaptable to any workflow, with reliable performance and Smart Help for fast troubleshooting	Our quietest thermal cycler	Compact, cost-effective system	Purpose-built for robotic and automated workflows	Designed for IVD and regulated-use environments
Available configurations	• 96-well • 3 x 32-well • 2 x 384-well • Cloud-enabled	• 96-well • 384-well • Cloud-enabled	• 96-well • Cloud-enabled	• 96-well • 384-well	• 96-well

* For *In Vitro* Diagnostic Use.

Get started

- Application note: VeriFlex Blocks temperature control technology
- Application note: Thermal cycler temperature accuracy
- 3D virtual tour: PowerFlex Thermal Cycler
- 3D virtual tour: VeritiPro Thermal Cycler

Order and configure

- Starter packages: PowerFlex Thermal Cycler, 3 x 32-well, with plastics
- Starter packages: PowerFlex Thermal Cycler, 96-well, with extended services
- Starter packages: VeritiPro Thermal Cycler with extended warranty and plastics

Don't forget

- Thermo Scientific™ PCR plastics
- Extended instrument services

Request and connect

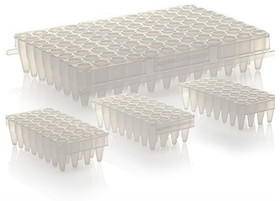
- Request a thermal cycler quote
- Request a thermal cycler demo

PCR plastics

Reliable plastics for accurate and reproducible PCR results

High-performance PCR plastics designed to support sample preparation, amplification, and analysis with optimal thermal transfer, purity, and consistency across workflows.

Learn more at thermofisher.com/findplastics







Product	PCR plates	PCR tubes and strips	PCR sealing solutions (films and caps)	Thermo Scientific™ PCR plastics, Sustain™ Series	Plastics prototyping services
Used for	High-performance, reproducible amplification	Low- to medium-throughput PCR in flexible formats	Secure sealing that enables contamination-free PCR	Reliable performance and reduced environmental impact	Custom PCR plastics design and prototyping services
Best for	High-throughput, manual, and automated workflows	Routine PCR workflows and small sample sets	Preventing evaporation and cross-contamination	Labs seeking to reduce environmental footprint without compromising performance	Customers needing customized plastics for specific workflows or instruments
Typical applications	• Gene expression • Genotyping • Sequencing • High-throughput PCR	• Standard PCR • qPCR setup • Assay development	• PCR • qPCR • Long PCR runs	• PCR • qPCR • High-throughput workflows	• Assay development • Diagnostics development • Instrument integration
Benefits	• Low variability • Uniform heat transfer • Automation-ready • High rigidity for robotic handling	• Consistent amplification • Easy handling • Secure sealing	• Evaporation control • Strong adhesion of film • Reliable sealing	• Reduced carbon footprint • Same performance as standard PCR plastics • Certified clean and reliable	• Faster time to market • Co-development with customers • Rapid prototyping • Scalable manufacturing
Key differentiator	Thin-wall polypropylene; available in Thermo Scientific™ Armadillo™ rigid plate design for automation stability	Optimized fit for Applied Biosystems™ thermal cyclers	Designed to reduce cross-contamination via effective sealing	Bio-based polypropylene with ISCC PLUS certification and reduced CO_2e emissions	End-to-end support from concept to production for PCR plastics
Available configurations	• 32-, 48-, 96-, and 384-well formats • Standard and fast formats • Thermo Scientific™ Armadillo™ plates for automation	• 0.1 mL and 0.2 mL tubes • 8-tube strips • Attached caps	• Adhesive films • Optical films • Cap strips	• 96-well plates • 384-well plates • Standard and fast PCR formats • Strip tubes and caps (both attached and packaged separately)	• Custom formats • Prototyping • OEM manufacturing

Get started

- Production overview: Applied Biosystems™ PCR plates, PCR tubes, and accessories
- Brochure: Thermo Scientific PCR plastics selection guide
- Green fact sheet: PCR plastics, Sustain Series

Order and configure

- Selection tool: PCR and qPCR plastics

Don't forget

- PCR enzymes and master mixes
- Applied Biosystems™ thermal cyclers for PCR
- Plastics prototyping services

Request and connect

- Request information: PCR plastics, Sustain Series
- Project intake form: Plastics prototyping services

Cloning solutions

Designed for a broad range of cloning strategies

Our comprehensive portfolio supports your needs from routine subcloning to complex multi-fragment assembly and RNA production.

Learn more at thermofisher.com/cloning



Product	Traditional cloning enzymes	Invitrogen™ GeneArt™ Gibson Assembly™ cloning kits	Golden Gate cloning products	Invitrogen™ Gateway™ cloning products	Enzymes and reagents for RNA production
Used for	Classical cloning based on restriction enzyme digestion and ligation	Seamless multi-fragment assembly based on homologous sequence overlaps	Single-tube seamless assembly based on type IIS restriction enzymes	Recombination-based cloning	Synthesis of RNA by *in vitro* transcription (IVT)
Best for	Single-fragment cloning based on well-defined restriction sites	Flexible method for seamless assembly of several fragments	Complex, multi-fragment assembly	Screening of expression constructs in multiple model organisms	RNA production; protection from degradation and contamination
Typical applications	• Basic research • Subcloning • Vector construction or modification	• Multi-fragment assembly • Site-directed mutagenesis • Synthetic biology	• Modular construct assembly • Viral genome assembly • CRISPR cassettes	• Gene transfer between vectors • Functional studies • Protein expression	• IVT • Guide RNA production • Protein expression
Benefits	Flexibility in experimental design, cost-effectiveness	Single isothermal reaction, independence from restriction enzymes	High-throughput capability, single reaction to assemble complex constructs	Highly convenient method for working with several vectors; ability to shuttle fragment between different model organisms	Broad selection of enzymes allowing for customization of workflows
Key differentiator	Established molecular biology technique	Easy-to-use assembly based on homologous sequence overlaps	Assembly of complex modular constructs	Based on recombination and has an established vector system	Ability to transfer to animal origin–free (AOF), IVT workflows
Available configurations	Stand-alone restriction enzymes and modifying enzymes	GeneArt Gibson Assembly cloning kits with or without competent cells	• Invitrogen™ GeneArt™ Type IIs Assembly Kits • Stand-alone Thermo Scientific™ FastDigest™ enzymes and DNA ligases	• Stand-alone enzymes and vectors • Kits with and without competent cells	Stand-alone enzymes and reagents, including RUO- or GMP-grade products

Workflow tip

Skip traditional cloning with Invitrogen™ GeneArt™ custom gene synthesis services. Receive sequence-verified genes cloned directly into your vector of choice. Learn more at thermofisher.com/geneart

Get started

- White paper: Cloning with FastDigest restriction enzymes
- Application note: Type IIs gene assembly
- Protocol: Site-directed mutagenesis
- Brochure: Gateway cloning technology

Order and configure

- Find an Invitrogen™ TOPO™ cloning kit by application
- Find out more about Golden Gate assembly solutions
- Explore Invitrogen™ Gateway™ cloning solutions

Don't forget

- Competent cells
- DNA vectors

Request and connect

- Request a sample: Invitrogen™ GeneArt™ Gibson Assembly™ HiFi Master Mix
- Request resource guide: GeneArt gene synthesis and protein engineering

Competent cells

Competent cells for molecular biology workflows

From routine cloning to complex and large constructs, we offer a comprehensive portfolio of trusted strains for reliable transformations, high efficiency, and consistent results.

Learn more at thermofisher.com/compcells









Product	Invitrogen™ DH5α™ cells	Invitrogen™ TOP10 cells	Invitrogen™ DH10B cells	Invitrogen™ Stbl3™ cells	Invitrogen™ BL21(DE3) cells
Used for	Routine cloning for consistent results	High-efficiency cloning with enhanced DNA stability	High-capacity cloning for large DNA constructs	Cloning of unstable or repetitive DNA sequences	Protein expression after cloning
Best for	General cloning	High-efficiency cloning	Large plasmids and genomic libraries	Hard to clone sequences, lentiviral vectors	Recombinant protein expression
Typical applications	• Subcloning • Plasmid amplification	• Subcloning • Plasmid amplification • Library construction	• Bacterial artificial chromosome (BAC) cloning • Library construction • Stable propagation of large inserts	• Viral vector cloning • Unstable insert propagation	• Protein production • Inducible protein expression
Benefits	Dependable, general-purpose cloning strain	Reliable growth, high transformation efficiency, stable inserts	Improved stability for large plasmids	Enhanced stability for difficult or recombination-prone sequences	High protein yield
Key differentiator	Versatile strain for everyday applications	Reduced recombination and endonuclease activity for high performance	Engineered for superior performance with large or challenging DNA	Designed to achieve success in cloning unstable sequences where other strains fail	Constructed for high-level expression of recombinant proteins
Available configurations	• Invitrogen™ One Shot™ format: low-throughput option from 10 to 40 reactions that come in both chemically competent and electrocompetent cells • Invitrogen™ MultiShot™ StripWell format: 12 capped 8-tube strips of chemically competent cells for low- to mid-throughput needs • Invitrogen™ MultiShot™ FlexPlate format: 96-well chemically competent cell plate, breakable into multiples of 8-well segments • Invitrogen™ MultiShot™ 96-well plate: chemically competent cell format, fully compatible with high-throughput liquid handling equipment				

Get started

- Technical note: Rapid transformation protocol of chemically competent *E. coli* cells
- Protocol: Site-directed mutagenesis using the GeneArt Gibson Assembly HiFi Cloning Kit

Order and configure

- Products and resources: Competent cells for transformation
- Products and resources: Competent cells for high-throughput cloning
- Selection guide: Choosing Invitrogen™ competent cells based on application

Don't forget

- Bacterial growth media
- Electroporation cuvettes

E-Gel Power Snap Electrophoresis Systems

Fast, integrated nucleic acid separation and analysis

Ready-to-run, bufferless precast gels and integrated imaging systems that simplify electrophoresis workflows.

Learn more at thermofisher.com/powersnap











Product	Invitrogen™ E-Gel™ instrument systems		Invitrogen™ E-Gel™ precast gel cassettes		
	Invitrogen™ E-Gel™ Power Snap Lite Electrophoresis System	Invitrogen™ E-Gel™ Power Snap Plus Electrophoresis System	Invitrogen™ E-Gel™ Agarose Gels with SYBR™ Safe Stain, E-Gel™ EX Agarose Gels with SYBR™ Gold II DNA Stain	Invitrogen™ E-Gel™ 48-well and 96-well agarose gels	Invitrogen™ E-Gel™ CloneWell™ II and E-Gel™ SizeSelect™ II agarose gels
Used for	Routine DNA or RNA verification with a compact, all-in-one system	Integrated electrophoresis and high-resolution imaging for advanced workflows	Fast DNA or RNA separation in a ready-to-run, precast format	High-throughput applications with larger sample numbers	Separation and retrieval of DNA fragments
Best for	Fast, routine verification workflows	Advanced analysis and flexible throughput	Fast, sensitive analysis	High-throughput screening	Cloning and NGS size selection
Typical applications	• Confirm PCR success (band present absent) • Routine QC checkpoints before next steps • Rapid screening of small sample sets (≤22 samples)	• Detailed fragment analysis (size, quality) • Comparing multiple samples or conditions • Documenting results for reporting or publication	• Routine DNA or RNA separation • Fragment analysis across workflows • General electrophoresis applications	• Genotyping workflows • High-throughput QC checks • Screening large sample sets (48–96 samples)	• Clone screening and verification • DNA fragment purification • NGS library size selection
Benefits	• Fast results to keep workflows moving • Minimal setup and hands-on time • Integrated workflow to run and visualize gels	• High-resolution results for confident decisions • Ability to compare and analyze multiple samples • Integrated imaging and data capture	• No gel pouring or buffer prep • Fast, consistent results • Simplified workflow setup	• Process more samples per run • Efficient high-throughput workflows • Consistent results at scale	• Direct band capture from gel • No gel extraction required • Streamlined workflows
Key differentiator	Designed for “go/no-go” decisions to move workflows forward quickly	Designed for deeper analysis, comparison, and documentation	Precast, bufferless gels eliminate manual preparation of gels	Formats of up to 96 wells for high throughput	Direct DNA recovery without gel excision
Available configurations	• ≤22 wells • Compact footprint	• 11–96 wells • Cloud-enabled	• 1–4% agarose • Applied Biosystems™ SYBR™ Safe and SYBR™ Gold II stains	• 48- and 96-well formats	• E-Gel CloneWell gels (cloning) • E-Gel SizeSelect gels (NGS)

Get started

- User guide: E-Gel Power Snap Plus Electrophoresis System
- How-to video: E-Gel Power Snap Plus Electrophoresis System
- Virtual tour: E-Gel Power Snap Plus Electrophoresis System
- User guide: E-Gel Power Snap Lite Electrophoresis System

Order and configure

- Instrument options and pricing: E-Gel Power Snap Plus Electrophoresis System
- Instrument options and pricing: E-Gel Power Snap Lite Electrophoresis System
- Selection tool: E-Gel precast gels and ladders
- Agarose gel electrophoresis: devices and reagents for pour-your-own gels

Don’t forget

- Products for RNA electrophoresis
- DNA ladders

Request and connect

- Request a demo or a quote: E-Gel Power Snap electrophoresis systems

Learn more at **thermofisher.com/molecularmasterpiece**

invitrogen

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