



# Research services handbook

Specialized solutions for unique research needs

When your work requires specialized, reliable, high-quality solutions, count on our staff of experts to help ensure the best workflow options for your research goals. Our wide range of service capabilities leverages a diverse portfolio of quality and consistency, built by some of the most recognized life science brands in the industry, including Thermo Scientific™, Applied Biosystems™, Invitrogen™, and Gibco™ products and services.

# Our services at a glance



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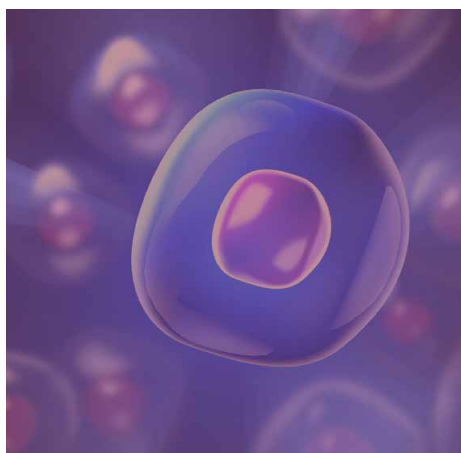
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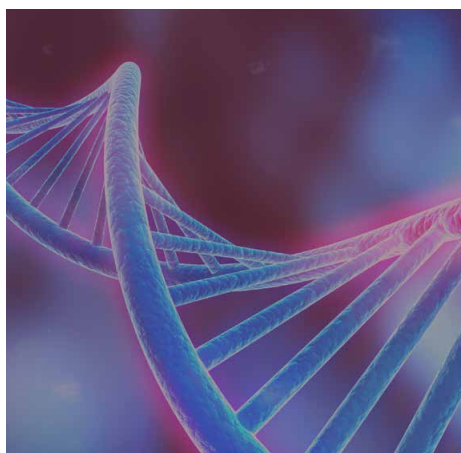
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Find out more about our services at  
[thermofisher.com/customservices](https://www.thermofisher.com/customservices)



## Assay development

The biochemical and cell-based assay development service is made up of a dedicated team of experts that have access to a large toolbox of biochemical and cell-based assay solutions.

- Drug discovery services
- Cell-based assays
- Biochemical assays
- Real-time PCR
- Custom conjugation



## Cell and gene therapy

From custom media services to single-use technologies and regulatory support, Thermo Fisher Scientific has the expertise and equipment to help you scale your research from clinical manufacturing to commercial supply.

- Custom media and single-use technologies
- Custom purification and analytical solutions
- Commercial supply chain
- Viral vector CDMO services
- Clinical trial kit production
- Clinical packaging, labeling, distribution, and cold-chain logistics



## Bioprocessing and PD-Express Services

For customers who lack the expertise or time to develop custom solutions specific to their clone and molecule, our Gibco™ PD-Express™ Services combine readily available solutions with our team of experts to quickly and cost-effectively achieve an optimal result.

- Media and feed panel solutions
- Media and cell line development
- Bioproduction analytical services
- Media manufacturing



## Custom biology

When your studies require non-standard, reliable, high-quality solutions, count on our custom biology services teams. We offer one-on-one consultation for standard custom projects or we can help consult, plan, and execute out-of-box, novel solutions to life-saving research.

- Custom assays
- Genome editing
- Cell line engineering
- Disease modeling
- Custom guide siRNA
- Gene synthesis



## Cell engineering

From designing and synthesizing your genome editing tools to editing cell lines, we offer end-to-end services to support every step. Our scientists will work with you to edit or design your cell line and perform quality control testing to help ensure that the cell line meets your requirements.

- Cell engineering
- Stem cell engineering
- Synthetic biology
- Genome engineering
- Gene synthesis



## Custom products and commercial supply

If you're involved in the commercial development of diagnostic, therapeutic, or life science products, you've come to the right place. When you bring our experienced Thermo Fisher Scientific Commercial Supply team on board, whether your project is large or small, your commercialization goals become our goals.

- |                                    |                            |
|------------------------------------|----------------------------|
| <b>Product format</b>              | <b>Product formulation</b> |
| • Dispensing                       | • Concentration            |
| • Packaging/labeling/private label | • Composition              |

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## Genomic services

Thermo Fisher Scientific offers a uniquely diverse portfolio of genomic services across a wide range of technologies. Working with our dedicated services team will help give you more control and a broader array of capabilities in your laboratory, now and into the future.

- Functional genomics screening
- Plasmid prep
- Genotyping
- Genome editing
- Lentivirus production
- Combinatorial libraries



## Protein and cell analysis

Analyzing proteins and cells requires the ability to express proteins, label them, and utilize them in unique assay configurations. Our custom services for gene expression, antibody production, bioconjugation, and immunoassay development enable you to quickly design tools for your research goals.

- Custom antibodies
- Immunoassays
- Custom peptides
- Gene expression services
- Bioconjugation



## Protein expression and purification

Through our protein expression services, you have access to all of the high-quality reagents and technologies in our extensive portfolio. Our dedicated team of scientists is available to assist with experimental design and will work with you to help ensure that the needs of your project are satisfied.

- CHO cell line services
- Protein purification services
- Protein expression and production
- Transfection-ready plasmid preparation



## Screening and profiling

With committed specialists who listen to your needs and a team of R&D experts with decades of experience in screening and profiling projects, Thermo Fisher Scientific scientists can help researchers do more by delivering services that assist in creating predictive answers for drug discovery exploration.

- High-throughput screening
- Compound profiling
- Lead optimization
- siRNA screening
- Invitrogen™ QuantiGene™ assays
- CRISPR libraries
- Transcriptome profiling



## Stem cell services

We offer stem cell researchers choices for all stages of research and custom service offerings. Learn more about how our team of scientists will help you reprogram, differentiate, and characterize your stem cells as well as help screen and test for genomic anomalies and pluripotency.

- Stem cell reprogramming
- Stem cell differentiation
- Stem cell reprogramming
- Stem cell characterization
- Stem cell genome editing



## Synthetic biology

What was once unimaginable is now achievable with synthetic biology. Invitrogen™ solutions are built on decades of expertise, and our research and development scientists are available to help you every step of the way.

- Invitrogen™ GeneArt™ Gene Synthesis
- Directed evolution
- GeneArt™ Strings™ DNA Fragments
- Gene-to-Protein Services
- Genome editing

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