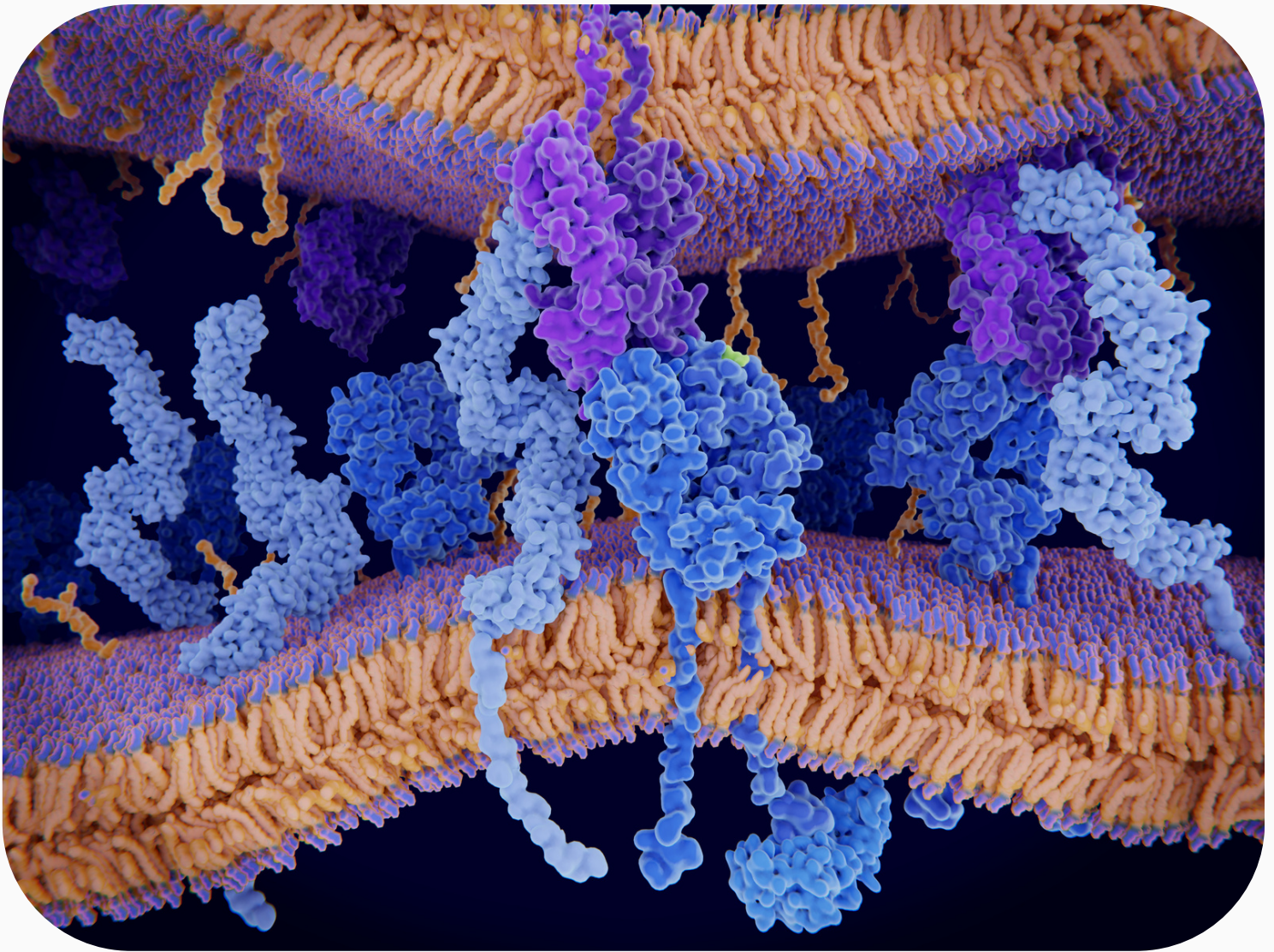


SYNBIOTIK

PRODUCT & SERVICE PORTFOLIO

www.synbiotiktr.com



We do engineer life

20
25

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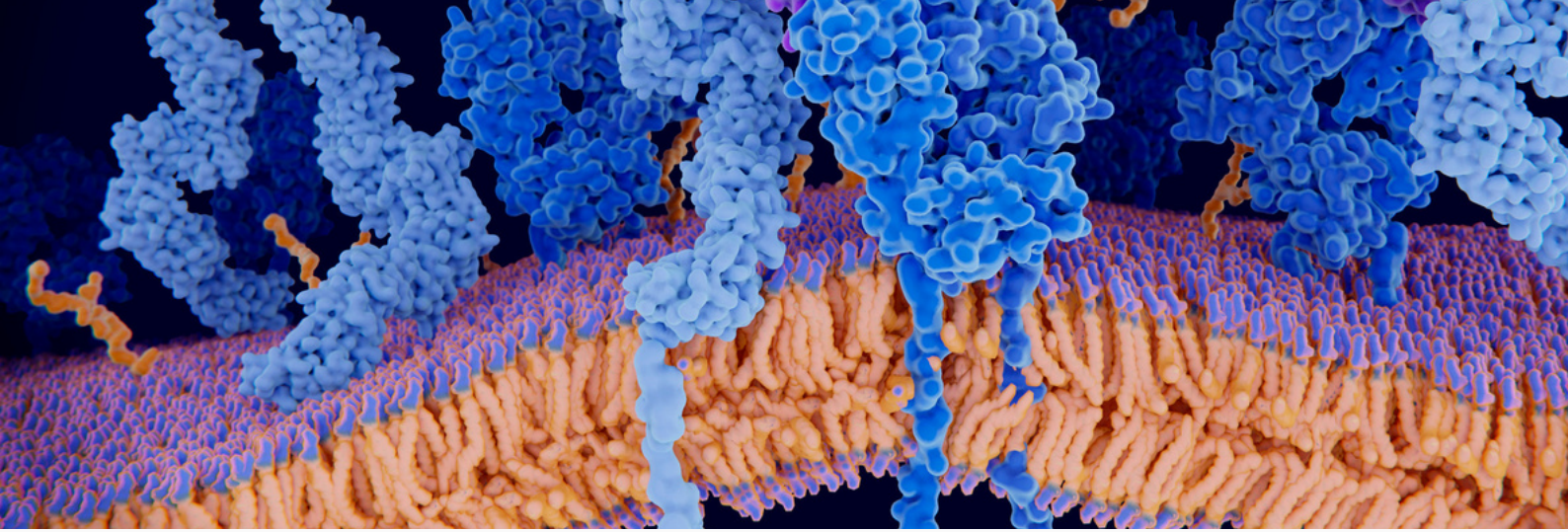
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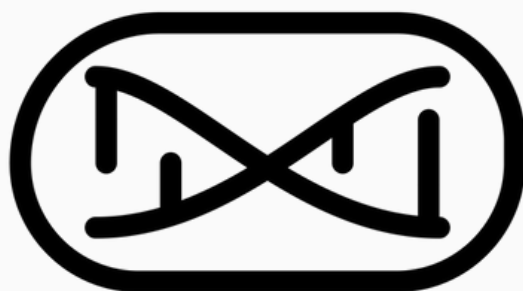


About Us

Since our founding in 2015, Synbiotik Biotechnology has pursued a clear vision: leveraging the transformative potential of biological systems to build a better and more sustainable future. Inspired by the pursuit of scientific excellence, our scientists develop cutting-edge biotechnology products and deliver innovative, high-impact solutions that redefine industry standards.

We are committed to making high-quality, advanced biotechnological solutions more accessible. Our diverse portfolio includes products and services which meet the evolving needs of the industry and academia. Through strategic partnerships, we position ourselves within this rapidly evolving field of biotechnology, advancing the progress with groundbreaking research and development initiatives every day. We provide services to different businesses and academic labs to improve their output and enable life-changing research. Lastly, We are proud to support our partners for their adaptation to upcoming bio-based economy.

For new partnerships and investor related inquiries, please send e-mail to info@synbiotiktr.com



SYNBIOTIK

Our Facility

At Synbiotik Biotechnology, We operate a 400 m² state-of-the-art laboratory, designed to accelerate innovation from idea to impact. Equipped with advanced technologies, our lab supports end-to-end R&D services and production, from microbial and mammalian cell fermentation to protein, DNA, and mRNA purification. Additionally, at this facility, we manufacture our entire product portfolio including molecular cloning enzymes, recombinant proteins, antibodies, ready-to-use kits, DNA & mRNA products, and more.

Our facility includes:

- Microbial and mammalian cell culture labs with bioreactors, CO₂ incubators, and orbital shakers
- Biomolecule purification using AKTA Pure and AKTA Go systems
- DNA analysis with qPCR, gel imaging, and single-molecule sequencing (MinION)
- Cell analysis and imaging with flow cytometry (DxFlex) and Cytation-7
- Biochemical analysis with microplate readers (BioTek Synergy H1M)

Our specialized infrastructure also features:

- Dedicated spaces for recombinant RNA, DNA, and protein production
- Specialized labs for non-model organism fermentation
- A 15 m² cleanroom designed for GMP compliance

With our integrated expertise and cutting-edge infrastructure, Synbiotik Biotechnology is your trusted partner for advanced biotech innovation.



Products

Polymerases

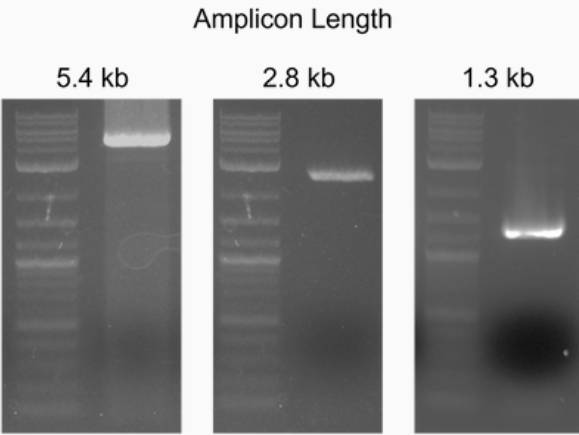
Synbiotik Biotechnology empowers your PCR workflows with precision and efficiency through our premium polymerases, reverse transcriptase, and master mixes. Designed for high processivity, our enzymes deliver superior performance in applications demanding exceptional accuracy and speed, helping you achieve groundbreaking results.

Key Features:

- **Unleash Efficiency:** Achieve better amplification with fewer cycles, significantly saving valuable time and resources in your projects.
- **Ensure Accuracy:** Our Pfu polymerase, with its robust proofreading capabilities, guarantees accurate DNA replication, minimizing errors crucial for long amplicons.
- **Tackle Any Template:** Perfectly suited for the diverse range of templates encountered in diverse applications, including GC-rich and other challenging sequences.
- **Count on Consistency:** Obtain reliable, high-yield amplification even under demanding experimental conditions for all workflows.
- **Accelerate Your Research:** Minimize reaction time with optimized speed, allowing you to iterate and innovate faster without compromising performance.

Experience the difference in your next experiment and elevate your research with our cutting-edge enzymes.

Rai™ Pfu High Fidelity DNA polymerase



*During PCR, elongation duration was 30 seconds per 1kb

Description:

Rai™ Pfu High-Fidelity DNA Polymerase is a thermostable enzyme with strong 3'→5' proofreading activity, offering ultra-low error rates for precise DNA amplification. Ideal for cloning, mutagenesis, and sequencing, it delivers high-yield, blunt-ended products even from GC-rich or long templates.

Figure 1. Amplification of DNA by Rai™ Pfu High Fidelity DNA polymerase

Cat No.	Product Name	Size
MCE0205	Rai™ Pfu High Fidelity DNA Polymerase	100 U (S) 400 U (L)
MCE0206	Rai™ Pfu High Fidelity 2X Master Mix	2 X 1.25 ml (S) 10 X 1.25 ml (L)

Rai™ Taq DNA polymerase

Description:

Rai™ Taq DNA Polymerase is a high-performance recombinant enzyme designed to enhance the amplification of DNA in PCR applications. Rai™ Taq DNA polymerase combines the robust properties of Thermus aquaticus Taq DNA polymerase with the processivity-enhancing DNA binding domain. The fusion of Taq DNA polymerase and domain results in improved speed, fidelity, and reliability.

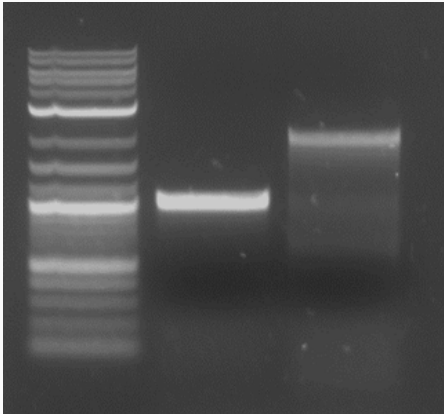


Figure 2. Colony PCR results from cells picked directly from agar plate. Amplicon lengths are 1kb and 2kb.

Cat No.	Product Name	Size
MCE0201	Rai™ Taq DNA Polymerase	500 U (S) 2000 U (L)
MCE0202	Rai™ Taq 2X Master Mix	1.25 ml x 10
MCE0203	Rai™ Taq Hot Start DNA Polymerase	200 U (S) 1000 U (L)
MCE0204	Rai™ Taq Hot Start 2X Master Mix	1.25 ml x 10

Rai™ Reverse Transcriptase

Description:

Rai™ Reverse Transcriptase is an engineered, high-processivity enzyme optimized for efficient and accurate cDNA synthesis from RNA templates. It performs reliably across a broad range of RNA inputs, enabling sensitive and high-yield reverse transcription for demanding applications like RT-qPCR, RNA quantification, transcriptome analysis and RNA-seq.

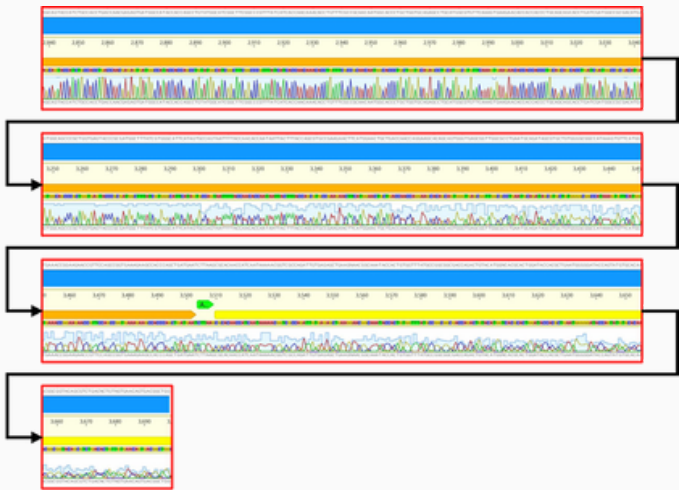
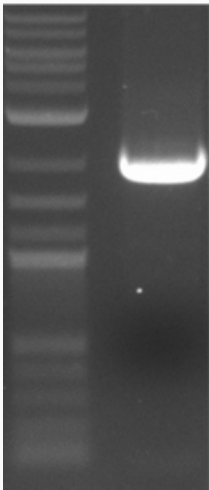


Figure 3. PCR from cDNA synthesized via Rai™ Reverse Transcriptase. The pieces is cloned and sequences succesfully.

Cat No.	Product Name	Size
MCE0301	Rai™ Reverse Transcriptase	4000 U (S) 10000 U (L)

Rai™ T7 Polymerase

Description:

Rai™ T7 RNA Polymerase is engineered optimized for high-yield, in vitro transcription of mRNA with minimal double-stranded RNA (dsRNA) byproducts. Ideal for therapeutic and vaccine applications, it enables the synthesis of capped, polyadenylated mRNA with minimal innate immune activation.

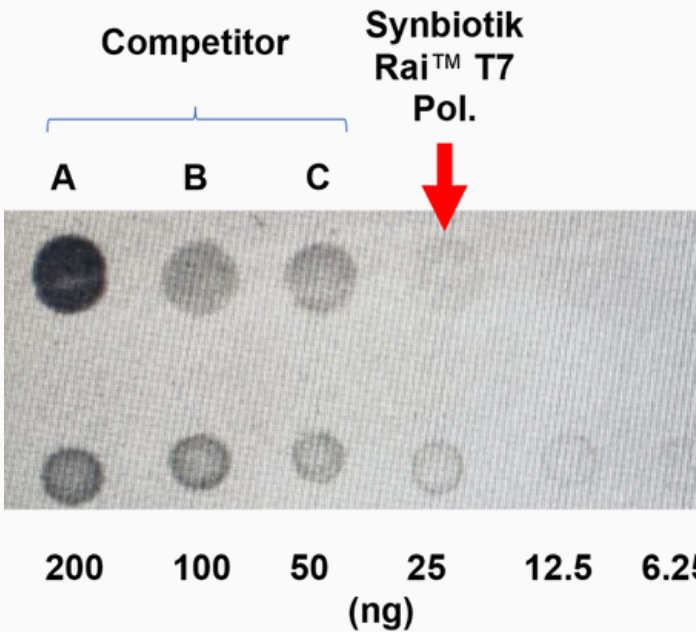
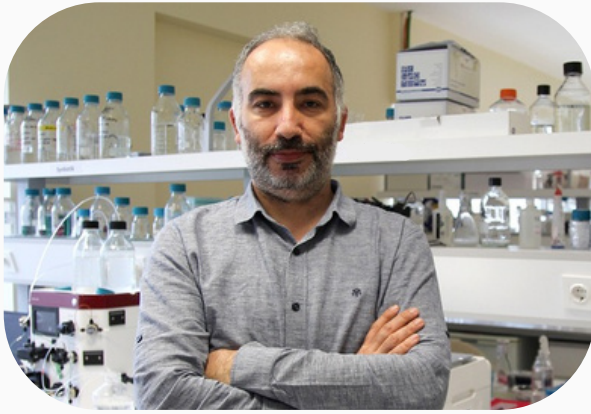


Figure 4. dsRNA quantitation via dot blot assay

Cat No.	Product Name	Size
MCE0205	Rai™ T7 Polymerase	4000 U (S) 20000 U (L)

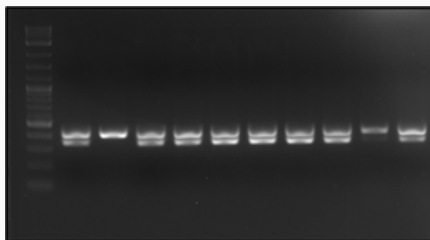
From our customers



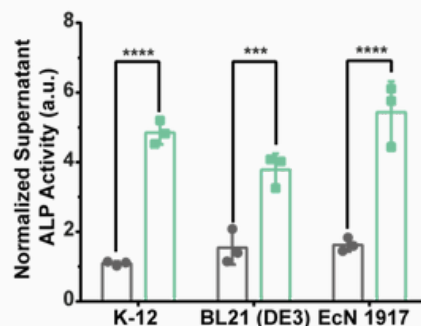
Bilkent University

Assoc. Prof. Dr. Urartu Şeker PI, Synthetic Biosystem Laboratory

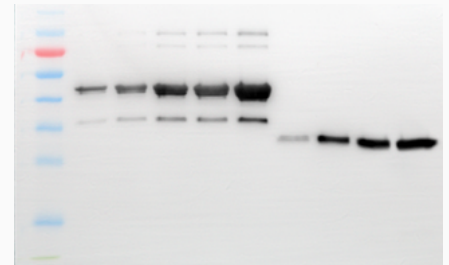
As the head of the Synthetic Biosystems Laboratory at Bilkent University, my team focuses on engineering synthetic genetic circuits, programmable therapeutics, and next-generation biosystems. For these applications, enzyme performance is critical. In our work, we require highly reliable enzymes for molecular cloning, gene expression, and in vitro transcription workflows. We have extensively used enzyme products from Synbiotik Biotechnology including Rai™ Taq DNA Polymerase, Pfu High-Fidelity DNA Polymerase, Reverse Transcriptase, their engineered T7 RNA Polymerase, Endonucleases, and cloning kits. We have consistently been impressed by their performance, yield, and reliability. These enzymes have met the rigorous demands of our experimental protocols. I was pleased to share some of our data with the Synbiotik team, and I fully endorse the inclusion of these results in their product catalog. I confidently recommend them to other researchers looking for high-quality reagents for molecular biology applications.



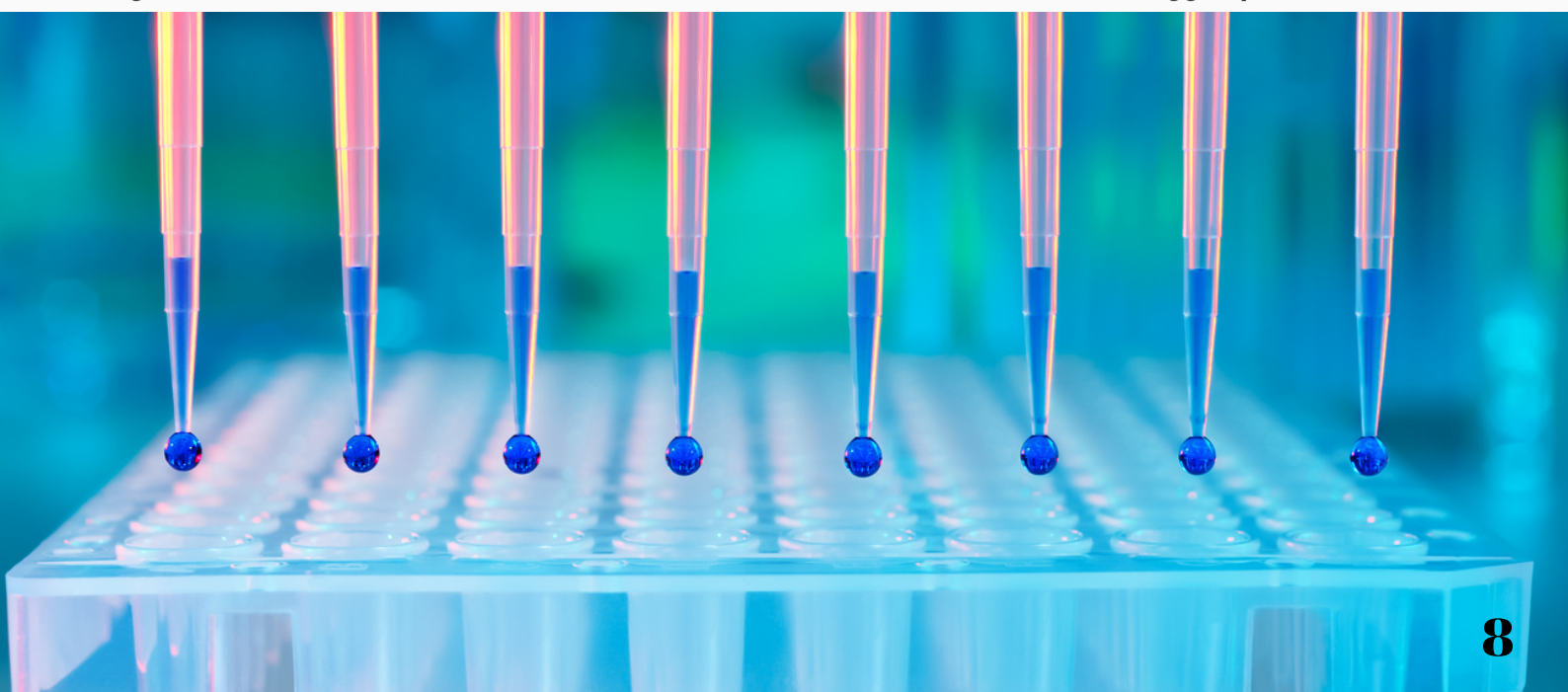
**Data generated by using
MCE0202, colony PCR results
after gene knockout**



**Data generated by using
BEK1001, ALP activity test
from cells**



**Data generated by using
SAB1001, western blot with
his-tagged proteins**



Restriction Endonucleases

Synbiotik Biotechnology offers its latest high-quality restriction endonucleases with unmatched precision and reliability across a wide range of applications. Whether you're building plasmid constructs, preparing DNA for sequencing, or assembling synthetic pathways, our restriction enzymes are trusted by molecular biologists worldwide for their dependable performance and flexibility.

Key Features:

- **High specificity** with minimal star activity.
- **Fast and reliable performance** for DNA digestion, cloning, and mapping.
- Optimized buffer systems included for **maximum activity**.
- **Supplied in multiple pack sizes** for research or production needs.

Each enzyme is subjected to rigorous quality control to ensure performance, reproducibility, and lot-to-lot consistency. Our formulations support a wide range of experimental setups, making them ideal for use in academic labs, biotech startups, and industrial R&D facilities.

Explore our endonuclease collection to acceralate your research in molecular biology.

AflII

MCE1004 (S - 1000 U / L - 4000 U)

5' ...C↓TTAA G...3'

3' ...G AATT↑C...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 65 °C for 20 minutes

Concentration: 10,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (-)

BsaI

MCE1010 (S - 1000 U / L - 4000 U)

5' ...GGTCTC(N)1↓...3'

3' ...CCAGAG(N)5↑...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 65 °C for 20 minutes.

Concentration: 10,000 U/ml

Methylation Sensitivity: dam (-), dcm (*), CpG (**)

DpnI

MCE1013 (S - 500 U / L - 2000 U)

5' ...GA-(Methyl)↓TC...3'

3' ...CT↑A-(Methyl)G...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 80 °C for 20 minutes.

Concentration: 10,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (+)

EcoRV

MCE1009 (S - 5000 U / L - 20000 U)

5' ...GAT↓ATC...3'

3' ...CTA↑GAG...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 65 °C for 20 minutes.

Concentration: 20,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (**)

BamHI

MCE1001 (S - 4000 U / L - 16000 U)

5' ...G↓GATCC...3'

3' ...CCTAG↑G...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: No

Concentration: 20,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (-)

BseRI

MCE1011 (S - 100 U / L - 400 U)

5' ...GAGGAG(N)10↓...3'

3' ...CTCCTC(N)8↑...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 80 °C for 20 minutes.

Concentration: 1,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (-)

EcoRI

MCE1008 (S - 5000 U / L - 20000 U)

5' ...G↓AATTC...3'

3' ...CTTAA↑G...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: No

Concentration: 20,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (**)

HindIII

MCE1012 (S - 5000 U / L - 20000 U)

5' ...A↓AGCTT...3'

3' ...TTCGA↑A...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 80 °C for 20 minutes.

Concentration: 20,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (-)

KpnI

MCE1002 (S - 4000 U / L - 16000 U)

5' ...G GTAC↓C...3'

3' ...C↑CATG G...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: No

Concentration: 20,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (-)

NcoI

MCE1016 (S - 500 U / L - 2000 U)

5' ...C↓CATG G...3'

3' ...G GTAC↑C...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 80 °C for 20 minutes.

Concentration: 5,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (-)

PstI

MCE1014 (S - 4000 U / L - 16000 U)

5' ...CTGCA↓G...3'

3' ...G↑ACGTC...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 80 °C for 20 minutes.

Concentration: 20,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (-)

XbaI

MCE1015 (S - 1000 U / L - 4000 U)

5' ...T↓CTAG A...3'

3' ...A GATC↑T...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 65 °C for 20 minutes.

Concentration: 10,000 U/ml

Methylation Sensitivity: dam (+), dcm (-), CpG (-)

MluI

MCE1003(S - 1000 U / L - 4000 U)

5' ...G↓GATCC...3'

3' ...CCTAG↑G...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: No

Concentration: 10,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (+)

NotI

MCE1007 (S - 250 U / L - 1000 U)

5' ...GC↓GGCC GC...3'

3' ...CG CCGG↑CG...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 65 °C for 20 minutes.

Concentration: 5,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (+)

SapI

MCE1006 (S - 100 U / L - 400 U)

5' ...GCTCTTC(N)1↓...3'

3' ...CGAGAAG(N)4↑...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 65 °C for 20 minutes.

Concentration: 1,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (-)

XhoI

MCE1012 (S - 2000 U / L - 8000 U)

5' ...C↓TCGA C...3'

3' ...C AGCT↑G...5'

Reaction Conditions: 1X UCut Buffer, 37 °C.

Heat inactivation: 65 °C for 20 minutes.

Concentration: 20,000 U/ml

Methylation Sensitivity: dam (-), dcm (-), CpG (**)

*Decreased activity in some nucleotide combinations, **Blocked in some nucleotide combinations

Ligases and Exonucleases

Synbiotik Biotechnology offers a trusted range of high-performance exonucleases and DNA ligases engineered to meet the demands of modern molecular biology. Whether you're assembling DNA fragments, repairing DNA strands, or designing synthetic constructs, our enzymes deliver efficiency, precision, and consistency across diverse workflows.

Key Features:

- **High specificity and fidelity** for accurate DNA processing.
- **Robust performance** in ligation, DNA repair, and assembly reactions.
- **Thermostable and mesophilic** options for a variety of protocols.
- **Supplied in multiple pack sizes** to support both routine research and scale-up

All enzymes are rigorously quality-tested for activity, purity, and consistency, ensuring reproducible results across experiments. Our exonucleases and ligases are optimized for compatibility with a wide range of cloning and assembly techniques, making them ideal for use in academic labs, diagnostics, biotech development, and industrial research environments.

Explore our enzyme collection to streamline your DNA assembly and repair workflows.

T4 Ligase

Description:

T4 DNA Ligase catalyzes the formation of phosphodiester bonds between adjacent 3'-hydroxyl and 5'-phosphate termini in duplex DNA or RNA. It efficiently joins both cohesive and blunt-ended DNA fragments, making it a versatile tool for cloning, vector preparation, and adapter ligation. Supplied with an optimized buffer for high activity and reliable performance in standard ligation protocols.

Cat No.	Product Name	Size
MCE0001	T4 Ligase	20000 U (S) 100000 U (L)

Taq Ligase

Description:

Taq DNA Ligase is a thermostable enzyme that catalyzes the joining of adjacent DNA strands at elevated temperatures. Its high-temperature activity makes it ideal for applications requiring thermal cycling, such as Ligase Chain Reaction (LCR), SNP detection, and multiplex mutation assays. Offers high specificity for perfectly matched DNA ends.

Cat No.	Product Name	Size
MCE0002	Taq Ligase	2000 U (S) 10000 U (L)

T5 exonuclease

Description:

T5 Exonuclease is a 5'→3' exonuclease that degrades double-stranded and single-stranded DNA with high efficiency. Commonly used in DNA assembly methods such as Gibson Assembly, it facilitates the generation of single-stranded overhangs for seamless cloning. The enzyme is robust, fast-acting, and active under standard reaction conditions.

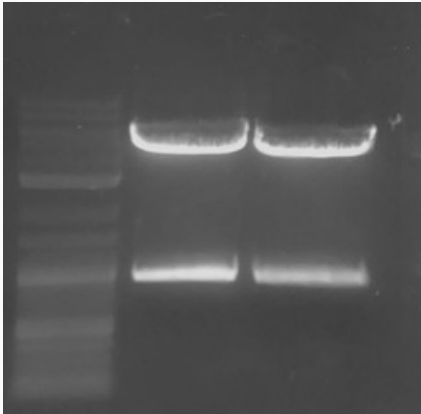
Cat No.	Product Name	Size
MCE0101	T5 exonuclease	1000 U (S) 5000 U (L)

From our customers

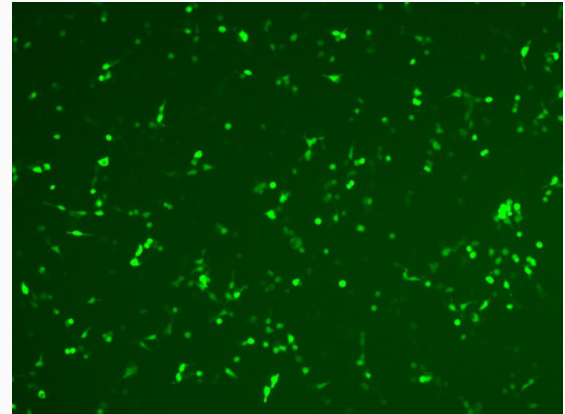


Asst. Prof. Dr. Serkan Yaman PI and Researcher

As a principal investigator and group leader at TÜSEB Biotechnology Institute, my work focuses on mRNA technologies, and cell and gene therapies. In our lab, we rely on high-quality reagents to ensure the reproducibility and efficiency of our experiments. I've had the chance to use a variety of products from Synbiotik Inc, including their restriction enzymes, high-fidelity polymerases, ready-to-use molecular biology kits, and mRNA-related reagents. I was particularly impressed by the performance, stability, and user-friendliness of their products. The convenience they offer has helped streamline our workflows and save valuable time at the bench. It's clear that a lot of thought and expertise has gone into the development of their product line. I would gladly recommend their tools to other researchers looking for reliable and efficient solutions in molecular biology and RNA-based applications.



**Data generated by using
MCE1003, RE verification**



**Data generated by using RAN0001, GFP translated
from mRNA in cells, 24 hour after transfection**



Molecular Cloning Kits, Vectors and *E.coli* Strains

Synbiotik Biotechnology offers a comprehensive portfolio of molecular cloning kits, expression vectors, and *E. coli* strains tailored to meet the needs of modern molecular biology and biotechnology workflows. Whether you're assembling complex constructs, expressing recombinant proteins, or streamlining your gene cloning pipeline, our products are designed for performance, reliability, and ease of use.

Key Features:

- **High-efficiency** isothermal DNA ligation and assembly mixes for seamless multi-fragment cloning—ideal for fast, scarless, and robust construct generation.
- **Versatile vector systems** supporting both *E. coli* and mammalian expression, enabling flexible experimental design from proof-of-concept to production.
- **Robust *E. coli* cloning strains** for routine plasmid propagation and library construction.
- **DE3-based *E. coli* protein expression strains** for robust and high-yield recombinant protein production.

All components are rigorously quality-tested for performance, purity, and consistency. Synbiotik's cloning ecosystem is optimized for compatibility with a wide range of molecular biology techniques, making it ideal for academic labs, biotech startups, diagnostics development, and industrial R&D.

Explore our integrated cloning and expression solutions for your needs.

Isothermal DNA Assembly Kit

Description:

Isothermal DNA Assembly Kit enables seamless and efficient assembly of multiple DNA fragments in a single-tube, single-temperature reaction. Utilizing the combined action of a high-fidelity polymerase and T5 exonuclease, the system ensures accurate and efficient generation of recombinant DNA without the need for thermal cycling. T5 exonuclease creates single-stranded overhangs for fragment annealing, while the high-fidelity polymerase fills in gaps with exceptional accuracy. Ideal for cloning, synthetic biology, and gene synthesis workflows, the kit offers robust performance with high specificity and minimal background.

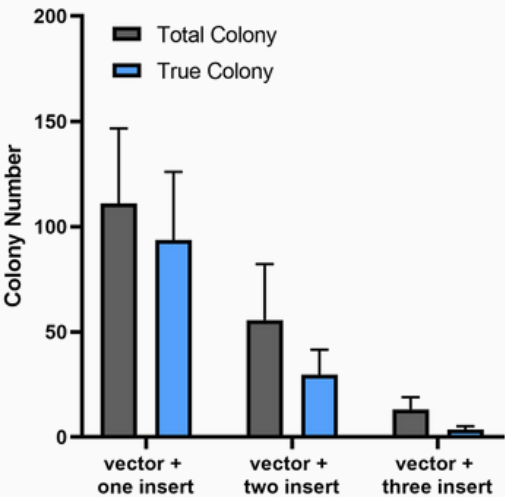


Figure 4. Colonies formed on agar and PCR verified colonies after transformation of assembled DNA

Cat No.	Product Name	Size
MCR0001	Isothermal DNA Assembly Kit	20 reactions

Blunt End Cloning Kit

Description:

Blunt-End Cloning Kit provides a reliable and efficient solution for the direct ligation of blunt-ended DNA fragments into linearized vectors. Designed for high-performance cloning workflows, the kit includes a high-concentration T4 DNA ligase optimized for blunt-end ligation, ensuring stable insertion of non-cohesive DNA ends without the need for overhangs or additional modifications. Compatible with PCR products generated by proofreading polymerases, this system is ideal for cloning applications where precision and versatility are essential. Perfect for gene synthesis, mutagenesis, and routine cloning tasks requiring accurate blunt-end ligation.

Cat No.	Product Name	Size
MCR0002	Blunt End Cloning Kit	20 reactions

ATG™ Cloning Vector

Description:

A high copy vector optimized for efficient insertion of DNA fragments. Ideal for high-yield cloning and subcloning workflows.

Cat No.	Product Name	Size
SCV0002	ATG™ Cloning Vector	One vial, 2-5 µg

ATG™ Expression Vector (*E. coli*)

Description:

Expression vector designed for protein production in *E. coli*. Features strong bacterial promoters for robust expression. Works with T7 polymerase/promoter system.

Cat No.	Product Name	Size
SCV0003	ATG™ Expression Vector (<i>E. coli</i> Intracellular)	One vial, 2-5 µg
SCV0004	ATG™ Expression Vector (<i>E. coli</i> Periplasm)	One vial, 2-5 µg

ATG™ Expression Vector (Mammalian)

Description:

Expression vector for high-level gene expression in mammalian cells. Includes CMV promoter and selectable marker for flexible applications.

Cat No.	Product Name	Size
SCV0005	ATG™ Shuttle Expression Vector (Mammalian single CMV promoter)	One vial, 2-5 µg

ATG™ *E. coli* Cloning Strain

Description:

A high-performance *E. coli* strain tailored for advanced DNA cloning and plasmid propagation. It carries spectinomycin resistance for easy selection and expresses high levels of TetR and LacI repressors, effectively minimizing leaky expression from Ptet and Plac promoters. Ideal for cloning potentially toxic genes. Genetically optimized with endA1 and recA1 mutations, the strain ensures high plasmid stability, reduced nuclease activity, and excellent transformation efficiency. Suitable for blunt-end and sticky-end cloning, toxic insert handling, and vector preparation for tightly regulated expression systems.

Cat No.	Product Name	Size
SCC0101	ATG™ <i>E. coli</i> Cloning Strain	1 vial
SCC0102	ATG™ <i>E. coli</i> Cloning Strain - Chemical Competent	6 x 0.1 ml
SCC0103	ATG™ <i>E. coli</i> Cloning Strain - Electro Competent	6 x 0.1 ml

ATG™ *E. coli* Expression Strain (DE3)

Description:

Robust *E. coli* DE3 strain engineered for high-level protein expression from T7 promoter-based systems. Features a proprietary mutation that enhances both protein yield and cellular growth, making it ideal for demanding expression workflows. Contains a chromosomally integrated T7 RNA polymerase under lacUV5 control, with tight regulation to minimize basal expression—perfect for expressing toxic or tightly regulated proteins. Compatible with a wide range of expression vectors, this strain offers fast growth, high plasmid stability, and superior performance in small- to large-scale protein production.

Cat No.	Product Name	Size
SCC0104	ATG™ <i>E. coli</i> Expression Strain (DE3)	1 vial
SCC0105	ATG™ <i>E. coli</i> Expression Strain (DE3) - Chemical Competent	6 x 0.1 ml
SCC0106	ATG™ <i>E. coli</i> Expression Strain (DE3) - Electro Competent	6 x 0.1 ml

Biomolecular Assay Kits

Our Biomolecular Assay Kit collection offers sensitive, reliable, and easy-to-use solutions for enzymatic activity detection in biochemical and cell-based studies. The line includes:

- **Phosphatase Assay Kit** – Designed for accurate quantification of phosphatase activity in vitro, supporting both serine/threonine and tyrosine phosphatases. Ideal for inhibitor screening, kinetic studies, and signal transduction research.
- **HRP Assay Kit** – Provides a rapid, colorimetric or fluorometric readout for horseradish peroxidase activity. Suitable for ELISA development, antibody validation, and oxidative stress assays.
- **Luciferase Assay Kits** – Includes Firefly, Renilla, and Gaussia luciferase detection systems, each optimized for high sensitivity, low background, and broad dynamic range. Perfect for dual-reporter assays, gene expression analysis, and promoter activity studies in mammalian cells.

All kits are optimized for high reproducibility and compatible with plate readers and automation platforms. Whether you're quantifying enzyme activity or monitoring gene expression, these kits offer robust performance for high-throughput and routine lab applications.

Alkaline Phosphatase Assay Kit

Cat No.	Product Name	Size
BEK1001	Alkaline Phoshatase Assay Kit	100 reactions

Peroxidase Activity Assay Kit

Cat No.	Product Name	Size
BEK1002	Peroxidase Activity Assay Kit	100 reactions

Luciferase Reporter Assay Kit

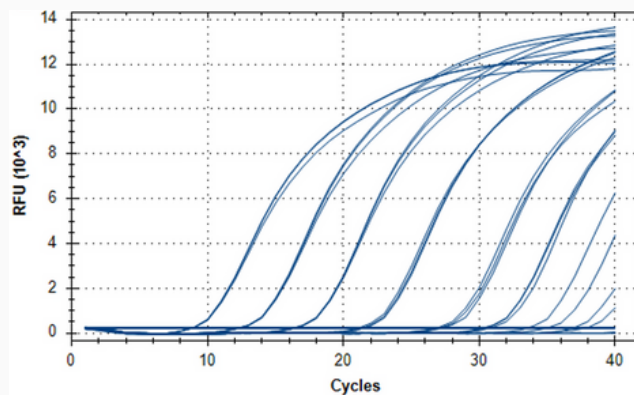
Cat No.	Product Name	Size
BEK1003	Luciferase Reporter Assay Kit - Firefly	100 reactions
BEK1004	Luciferase Reporter Assay Kit - Renilla	100 reactions
BEK1005	Luciferase Reporter Assay Kit - Gaussia	100 reactions

From our customers



Eda Talaz, MSc Senior Researcher

As a senior researcher at a qPCR diagnostics company, precision, speed, and consistency are at the core of our daily operations. We've integrated Synbiotik Inc's DNA synthesis services and polymerases into our workflows, and the results have been excellent. Their DNA synthesis service delivers high-quality constructs with impressive accuracy and turnaround times, crucial factors in a fast-paced diagnostic setting. We've also had great success with their polymerases, which have proven to be highly robust and efficient, especially in qPCR assay development and validation. What sets Synbiotik apart is their clear understanding of the practical demands of applied molecular biology. Their products are thoughtfully designed, reliable, and easy to work with, saving both time and troubleshooting effort. I confidently recommend Synbiotik's tools to other researchers and diagnostic teams looking for dependable solutions.



Data generated by using DNA synthesized via DNA Synthesis Services, qPCR amplification curve from serial diluted samples



Recombinant Proteins

Our diverse collection of high-quality recombinant proteins is designed to empower researchers across molecular biology, immunology, neuroscience, synthetic biology, and drug development fields. Whether you're studying disease mechanisms, engineering genetic tools, or developing diagnostic assays, our protein products offer unmatched performance and reliability.

- **Antigens & Antibodies:** A broad range of human-derived antigens (e.g., EGFR, PD-L1, HER2, TNF α) and research-use-only therapeutic antibodies (e.g., Trastuzumab, Cetuximab, Ipilimumab) support immunological and oncology research. Also available are detection reagents like Protein G and its HRP conjugate, as well as antibodies against His-tags and GFP.
- **Fluorescent Proteins:** Our monomeric GFP, RFP (mScarlet, mCherry), YFP, and BFP variants are optimized for live-cell imaging, tracking, and quantitative fluorescence applications.
- **Amyloid Proteins:** From bacterial functional amyloids (CsgA/B, TasA/B) to key players in neurodegeneration (Alpha-synuclein, Amyloid Beta peptides, Huntingtin variants), these proteins are ideal for aggregation studies and neurobiological research.
- **Cas Proteins:** Our purified Cas9 like and Cas12 like proteins (His-tagged) offer powerful genome editing capabilities for CRISPR-based research and diagnostics.
- **Proteases:** Highly active and well-characterized proteases such as TEV and SUMO protease (ULP1) provide efficient tag removal and protein maturation tools for recombinant protein workflows.
- **Reporter Enzymes:** Sensitive and versatile detection systems powered by small luciferase enzymes and His-tagged alkaline phosphatase enable accurate gene expression analysis and biosensor development.

All proteins are produced under stringent quality control to ensure reproducibility and performance across a variety of applications. Explore our portfolio to accelerate your research with trusted tools that deliver clarity, consistency, and confidence.

Antibodies

Cat No.	Product Name	Size
SAB1001	Anti-Histidine mouse antibody (monoclonal)	100 µg
SAB1002	Anti-GFP mouse antibody (monoclonal)	100 µg
SAB1003	Trastuzumab RUO	1 mg
SAB1004	Cetuximab RUO	1 mg
SAB1005	Ipilimumab RUO	1 mg
SAB1006	Ranibizumab RUO	1 mg
SAB1007	Anti-SARS-CoV-2 N protein RUO	1 mg
SAB1008	Anti-SARS-CoV-2 RBD RUO	1 mg
SAB1009	Anti-SARS-Cov-2 S protein RUO	1 mg
SAB1010	Human ACE2-Fc Fusion Protein RUO	1 mg
SAB1011	Anti-Mouse IgG HRP conjugated (polyclonal)	1 mL
SAB1012	Anti-Rabbit IgG HRP conjugated (polyclonal)	1 mL
SAB1013	Anti-Rat IgG HRP conjugated (polyclonal)	1 mL

Fluorescent Proteins

Cat No.	Product Name	Size
SRE0101	Monomeric Green Fluorescent Proteins	1 mg
SRE0101	Monomeric Red Fluorescent Proteins	1 mg
SRE0101	Monomeric Yellow Fluorescent Proteins	1 mg
SRE0101	Monomeric Blue Fluorescent Proteins	1 mg

Antigens

Cat No.	Product Name	Size
SAN0001	Protein G	100 µg 1 mg
SAN0002	Protein G-HRP conjugate	100 µg 1 mg
SAN0003	Human TNFalpha	100 µg 1 mg
SAN0004	Human CD19 (extracellular domain)	100 µg 1 mg
SAN0005	Human HER2 (extracellular domain)	100 µg 1 mg
SAN0006	Human PD-L1 (extracellular domain)	100 µg 1 mg
SAN0007	Human EGFR (extracellular domain)	100 µg 1 mg
SAN0008	Human VEGF	100 µg 1 mg
SAN0009	Anakinra (IL-1Ra) RUO	100 µg 1 mg

Cas Proteins

Cat No.	Product Name	Size
SAN0901	Cas9-Open (spCas9 like)	100 µg 1 mg

Proteases

Cat No.	Product Name	Size
SAN0801	TEV protease	100 µg 1 mg
SAN0802	ULP1 protease	100 µg 1 mg

Amyloid Proteins

Cat No.	Product Name	Size
SAN1001	CsgA (C-term 6His tagged)	100 µg 1 mg
SAN1002	CsgB (C-term 6His tagged)	100 µg 1 mg
SAN1003	TasA (C-term 6His tagged)	100 µg 1 mg
SAN1004	TasB (C-term 6His tagged)	100 µg 1 mg
SAN1005	EsxA (C-term 6His tagged)	100 µg 1 mg
SAN1006	EsxB (C-term 6His tagged)	100 µg 1 mg
SAN1007	Alpha synuclein (N-term GST fused, N-term 6His tagged)	100 µg 1 mg
SAN1008	Amyloid Beta40 (N-term GST fused, N-term 6His tagged)	100 µg 1 mg
SAN1009	Amyloid Beta42 (N-term GST fused, N-term 6His tagged)	100 µg 1 mg
SAN1010	Amyloid Beta40 (N-term GST fused, N-term 6His tagged)	100 µg 1 mg
SAN1011	Huntingtin, 25-glutamine repeat (25Q-Htt) (N-term GST fused, N-term 6His tagged)	100 µg 1 mg
SAN1012	Huntingtin, 46-glutamine repeat (46Q-Htt) (N-term GST fused, N-term 6His tagged)	100 µg 1 mg
SAN1013	Huntingtin, 103-glutamine repeat (103Q-Htt) (N-term GST fused, N-term 6His tagged)	100 µg 1 mg

Reporter Enzymes

Cat No.	Product Name	Size
SAN0801	Small luciferase enzyme (C-term 6His-tagged)	100 µg 1 mg
SAN0802	Bacterial Alkaline Phosphatase (N-term 6His-tagged)	100 µg 1 mg

Other Proteins

Cat No.	Product Name	Size
SAN0601	PETase	100 µg 1 mg
SAN0602	MHETase	100 µg 1 mg
SAN0603	Griffithsin RUO	100 µg 1 mg
SAN0604	HlyE toxin RUO	100 µg 1 mg
SAN0605	Human Keratin K31	100 µg 1 mg
SAN0606	Human Keratin K85	100 µg 1 mg

Ready-to-use mRNA Products

Our expanding collection of ready-to-transfect mRNA products is engineered to support cutting-edge research in gene expression, genome editing, cell imaging, and reporter assays. Each mRNA is capped, polyadenylated, and optimized for high translation efficiency and stability in eukaryotic systems, making them ideal for both in vitro and in vivo applications.

Fluorescent Reporters:

Cat No.	Product Name	Size
RAN0001	Ready-to-transfect GFP mRNA	250 µg (S) // 1 mg (L)
RAN0002	Ready-to-transfect RFP mRNA	250 µg (S) // 1 mg (L)

Enzymatic Reporters:

Cat No.	Product Name	Size
RAN0003	Ready-to-transfect Renilla Luciferase mRNA	250 µg (S) // 1 mg (L)
RAN0004	Ready-to-transfect Firefly Luciferase mRNA	250 µg (S) // 1 mg (L)
RAN0005	Ready-to-transfect Gaussia Luciferase mRNA	250 µg (S) // 1 mg (L)
RAN0006	Ready-to-transfect β-galactosidase mRNA	250 µg (S) // 1 mg (L)

CRISPR-Cas mRNA Constructs

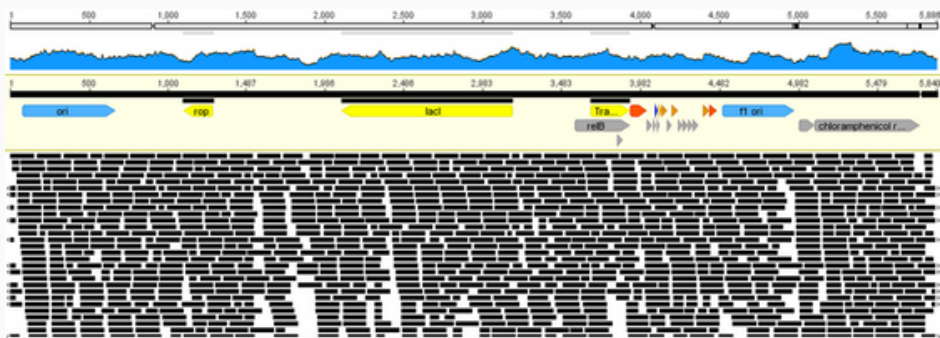
Cat No.	Product Name	Size
RAN0007	Ready-to-transfect Cas9-Open mRNA (spCas9 like)	250 µg (S) // 1 mg (L)
RAN0008	Ready-to-transfect Cas9-Open T2A GFP mRNA (spCas9 like)	250 µg (S) // 1 mg (L)

From our customers



Baris Kucukkaraduman CEO

As the CEO of a Bioligo which specializing in primer synthesis, I understand the importance of partnering with service providers who uphold the highest standards of quality and reliability. We've been working with Synbiotik Inc for gene synthesis, protein production, and genome editing services. The experience has consistently exceeded our expectations. Their gene synthesis service delivers highly accurate constructs with excellent turnaround times, which has greatly streamlined our custom design workflows. We've also benefited from their recombinant protein services, which provide consistent yield and purity which are essential for our internal validation processes. In addition, their genome editing solutions have proven to be both precise and user-friendly, supporting our R&D initiatives with remarkable efficiency. What makes Synbiotik stand out is not just the technical quality of their services, but their responsiveness and deep understanding of the molecular biology landscape. I confidently recommend Synbiotik to any biotech team seeking robust, scalable, and dependable solutions across synthetic biology and genome engineering applications.



**Data generated by using DNA synthesized via DNA
Synthesis Services, sequencing result**



SERVICES

Cell Line Development

We provide customized cell line development (CLD) solutions for producing monoclonal antibodies, complex biologics, therapeutic proteins, enzymes, and more. Our expertise spans CHO, HEK, *Pichia pastoris*, and *E. coli* systems, supported by advanced technologies like AI-assisted codon optimization, and in-house genetic libraries.

Why Choose Us?

- Custom Design: High-yield, scalable, and stable cell lines tailored to your needs
- Advanced Tools: AI, CRISPR, and high-throughput screening for optimal outcomes
- Cost-Effective: Fast timelines, reduced development costs

Our Services

- Rapid Cell Line Development: Streamlined workflow from transfection to screening
- Optimization & Scale-Up: Enhancing stability, productivity, and regulatory readiness

System Flexibility

- Mammalian (CHO, HEK) – Ideal for biologics and gene therapies
- Yeast (*P. pastoris*) – Eukaryotic expression with cost efficiency
- Bacterial (*E. coli*) – Fast, affordable protein and enzyme production

Partner in Your Success

Let us help you accelerate innovation and bring your next-generation biologics to life.

Assay Development

Our assay development platform offers end-to-end solutions for designing, optimizing, and validating robust analytical methods tailored to your biologics, biosimilars, or novel therapeutic candidates. From functional and binding assays to potency and stability studies, we ensure data integrity and regulatory compliance across all assay formats.

Why Choose Us?

- **Tailored Assays:** Designed to match your molecule's mechanism of action and analytical goals
- **Platform Versatility:** ELISA, cell-based assays, qPCR, reporter assays, and more
- **Regulatory-Ready:** Assays developed to meet GMP and ICH guidelines

Our Services

- **Custom Assay Development:** From concept to qualified method, built around your target product
- **Potency & Functional Testing:** Quantitative readouts for biological activity
- **Assay Optimization:** Enhancing specificity, sensitivity, and reproducibility
- **Validation Support:** Method qualification and tech transfer to QC environments
- **High-Throughput Capabilities:** Streamlined processes for efficient screening and analysis

Your Analytical Partner

Empowering your R&D and QC workflows with assays that deliver actionable, reliable results.

Nucleic Acid Services

Synbiotik Biotechnology supports your research whenever you need. Comprehensive nucleic acid service is designed to boost your project. Whether you are a R&D engineer or a PhD student, there is no need for endless effort to clone genes or do PCRs. Our PhD-level support team will guide you through every step of your nucleic acid needs and offer best the solution.

Features and Benefits

• **PhD-level Support Team:**

Our team will analyze your needs and offer the best solutions for you.

• **Information Security:**

We understand and value the secrecy of our customer's data and ideas. Our strict intellectual property protection policy will guarantee the security of your shared DNA and protein sequences. Without contest, only you have access provided materials and data related to your projects.

• **Best Quality Product:**

Quality checks will be performed for each of your orders. Products that pass the quality barrier will be delivered.

• **On-time Completion:**

With a 99% on-time completion rate, we are proud to tell you that we will complete your project ahead of the envisioned deadline.

Available Services

- DNA sequencing
- Fragment Gene Synthesis
- Cloning & Plasmid DNA Preparation
- Site Directed Mutagenesis
- ORF cDNA Clones
- Genome Engineering

Protein Services

Synbiotik Biotechnology is here to support your research every step of the way. Our comprehensive protein services are tailored to accelerate your project, whether you're an R&D engineer or a PhD student. Say goodbye to the hassle of protein analysis—be it expression, purification, or identification. Our expert PhD-level support team will guide you through every stage, providing customized solutions to meet your specific protein needs.

Features and Benefits

• **PhD-level Support Team:**

Our team will analyze your needs and offer the best solutions for you.

• **Information Security:**

We understand and value the secrecy of our customer's data and ideas. Our strict intellectual property protection policy will guarantee the security of your shared DNA and protein sequences. Without contest, only you have access provided materials and data related to your projects.

• **Best Quality Product:**

Quality checks will be performed for each of your orders. Products that pass the quality barrier will be delivered.

• **On-time Completion:**

With a 99% on-time completion rate, we are proud to tell you that we will complete your project ahead of the envisioned deadline.

Available Services

- Protein Production
- Protein Purification
- Protein Identification and Characterization
- Protein Engineering

OEM Biotechnological Reagents

Synbiotik provides high-quality, cost-effective molecular biology reagents tailored for biotech startups, research labs, and companies across biopharma, diagnostics, agriculture, food, and defense sectors. We specialize in custom formulations, private labeling, and scalable supply to accelerate your innovation pipeline.

Why Choose Synbiotik?

- High-Performance Reagents – Enzymes, polymerases, ligases, and more, rigorously tested for consistency
- Custom & White-Label Solutions – Tailored formulations, buffer systems, and packaging
- Flexible Supply Chain – Scalable production with fast delivery for R&D to manufacturing
- Reliable Partnership – OEM expertise with responsive support and tech know-how

Product Portfolio

- DNA & RNA Polymerases
- Restriction Enzymes & Nucleases
- Ligases & DNA Assembly Enzymes
- Recombinant DNA Vectors
- Protein Expression Reagents
- Cell-Free TXTL Systems
- Custom Enzyme Development

Industries We Serve

- Biotech & Startups – Scalable, cost-effective reagents
- Biopharma & Diagnostics – Reliable components for critical workflows
- Academia & Research – Bulk, affordable, high-throughput supplies
- AgriTech & FoodTech – Sustainable biotechnology solutions
- Defense – Advanced reagents for detection and biosecurity

Partner with Synbiotik

From gene and protein production to mRNA therapeutics, diagnostics, and synthetic biology, Synbiotik empowers your success with reliable OEM solutions tailored to your goals.

Our Customers



HelixLab





SYNBIOTIK

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