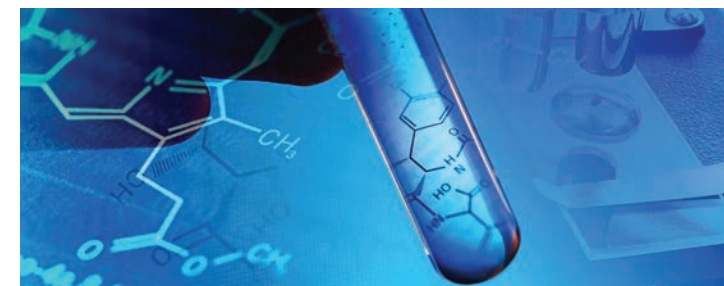




MGH CCIB DNA CORE

RESEARCH SERVICES SINCE 1995



Dropbox Locations

Simches Building (7th Floor, Molecular Biology, Central Corridor next to Elevator Lobby)

Simches Building (Main Entrance Lobby)

Jackson Building (MGH Campus, 13th Floor, Elevator Lobby)

MGH Charlestown (CNY, 6th Floor, Room 6133)

Ragon Institute of MGH, MIT and Harvard (Lobby, 1st Floor)

BWH Bldg for Transformative Medicine (60 Fenwood Road, Ground Floor)

HMS New Research Bldg (77 Louis Pasteur Ave., Ground Floor)

CCIB DNA Core Facility

Contact Us

Email dnacore@ccib.mgh.harvard.edu

Phone 617-726-5982

CCIB DNA Core

38 Sidney Street, Suite 100
Cambridge, MA 02139

Visit Our Website



Partner with us for these advantages:

- 20+ year track record of increasing research efficiency with trusted high-quality services at competitive rates
- One-stop shop for a diverse portfolio of state-of-the-art services: molecular biology, genomics and laboratory automation
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aavery@ccib.mgh.harvard.edu

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617-726-0074



Sanger DNA Sequencing

Excellent technical knowledge and 20+ years of accumulated experience in Sanger DNA sequencing. Fluorescent dye terminator detection using state-of-the-art capillary sequencing technology. Efficient execution of small and large sequencing projects. We deliver quality, speed and reliability.

- Plasmid Sequencing
- PCR Product Sequencing
- Difficult Template Sequencing
- 96-Well PCR Purification

DNA Oligonucleotide Synthesis

20 years of expertise in the synthesis of high-quality custom oligonucleotides for use in a wide range of genetics applications including DNA sequencing, PCR, cDNA synthesis, hybridization, and *in vitro* mutagenesis. Various modifications offered. Desalting and PAGE purification available. Quick turnaround and free onsite delivery.

Genotyping

■ Fragment Analysis (Microsatellite)

Fast and reliable automated ready-to-run fragment analysis on ABI3730xl DNA Analyzer for accurate sizing and consistency, and minimum run-to-run migration variations. Data interpretation (quality DNA sizing, allele calling) also available. 6-24 hour turnaround.

■ Mouse Genotyping

Customized PCR-based genotyping assays. Automated extraction of high-quality genomic DNA from tail clips. PCR amplification of genomic DNA and electrophoresis. On-site synthesis of custom PCR primers. Weekly processing, turnaround 3 business days. No setup fees. Accurate and reliable.

Next-Generation Sequencing

The MGH CCIB DNA Core offers massively parallel “next-generation” sequencing (NGS) services for several focused applications. We are performing Illumina-based deep sequencing. No reference sequence is required. Our priority is providing the highest possible data quality at the lowest cost.

■ Complete Plasmid Sequencing

Complete characterization of unknown and known plasmids, including automated sequence assembly.

■ CRISPR Sequencing

High-throughput identification of CRISPR/Cas-induced mutations via deep sequencing of PCR amplicons.

■ Complete Amplicon Sequencing

Cost-effective sequencing of PCR amplicons. Suitable for size range from 400 bp to <15 kb.

■ Viral Genome Sequencing

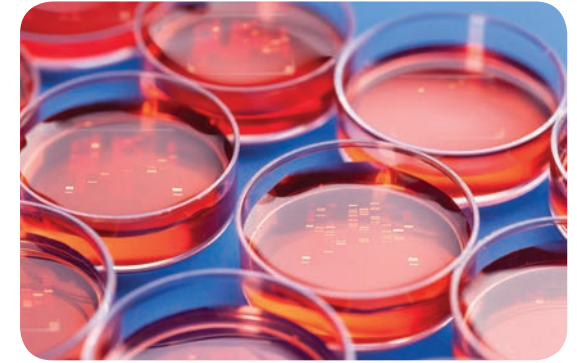
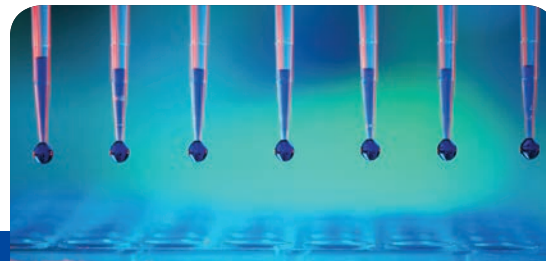
Complete characterization of viral genomes.

Laboratory Automation

State-of-the-art instrumentation, proven expertise, and experience to execute routine laboratory procedures that require large-scale robotics support. Proficiency in automation process design and implementation. Flexibility and adaptability. Tailored automated solutions.

■ Custom Automation Projects

Tailored solutions include custom screening, fluid handling, colony picking, library rearrying, plate duplication, sample preparation, and normalization.



■ cDNA Library Screening

High-throughput screening service utilizing the new CCIB genome-scale plasmid-based expression library, which consists of ~20,000 sequence-verified human open reading frames.

■ siRNA Library Screening

High-throughput screening service utilizing a pooled version of the Silencer Select Human Genome siRNA Library V4, which targets a genome-scale collection of 21,585 human genes.

■ 96-well Plasmid DNA Preparation

Isolation of high-quality plasmid DNA in 96-well format. Suitable for a broad range of downstream applications, including transfection, *in vitro* expression, automated fluorescent DNA sequencing and cloning.

Custom Molecular Biology

Relying on our strong technological expertise in DNA sequencing, oligonucleotide synthesis, molecular biology and genomics, combined with the high level of our services, our team offers customized solutions for your individual research needs. For your convenience, multiple individual services can also be packaged as a single custom project.