



Molecular Genetics Research Outsourcing Services

Our molecular genetics research outsourcing services decode gene structures, functions, mutations, and regulation to support disease gene discovery, trait analysis, and genetic improvement programs.

Our Molecular Genetics Research Capabilities

Our molecular geneticists and bioinformaticians apply advanced sequencing, genotyping, and functional genomics tools to address complex genetic questions in humans, plants, animals, and microbes.

Types of Molecular Genetics Research We Handle

- Gene Expression Analysis
- Mutation Detection and Screening
- Functional Genomics Studies
- Genetic Mapping and Linkage Analysis
- Quantitative Trait Loci (QTL) Mapping
- Single Nucleotide Polymorphism (SNP) Genotyping
- Microsatellite Marker Analysis
- Gene Knockout and Knockdown Studies
- CRISPR Gene Editing
- Gene Silencing and RNAi Experiments
- Epigenetic Regulation Studies
- Methylation Pattern Analysis
- Chromatin Immunoprecipitation (ChIP)
- DNA-Protein Interaction Studies
- Transcription Factor Binding Analysis
- Gene Family Evolution Studies
- Comparative Genomics Analysis
- Copy Number Variation (CNV) Analysis
- Genome-Wide Association Studies (GWAS)
- Population Genetics Studies
- Parentage and Lineage Testing
- Genetic Diversity Assessment
- Pathway and Network Analysis

- Regulatory Element Identification
- Variant Annotation and Interpretation
- Rare Disease Gene Discovery
- Regulatory-Compliant Genetics Reports
- Publication-Ready Genetics Data
- Cross-Lab Collaborative Genetics Projects
- Custom Molecular Genetics Projects

Key Research Outsourcing Services Offered

- Sample Collection and DNA/RNA Isolation
- High-Throughput Sequencing
- qPCR and RT-PCR Assay Development
- SNP Genotyping Panel Design
- Mutation Detection and Validation
- Gene Knockout/Knockdown Protocols
- CRISPR Guide RNA Design
- Epigenetic Marker Analysis
- Methylation Assays
- Chromatin Immunoprecipitation (ChIP) Experiments
- Functional Annotation of Genes
- Pathway Enrichment and Interaction Analysis
- Bioinformatics Pipeline Development
- Variant Calling and Annotation
- Data Interpretation and Report Preparation
- Regulatory Documentation Preparation
- Confidential Data Handling and NDA
- Interim Project Reports and Updates
- Publication-Ready Reports and Figures
- Stakeholder Presentation Support
- Workshops and Training in Molecular Genetics
- Post-Project Technical Consulting
- IP Filing and Patent Support
- Grant Proposal and Manuscript Assistance
- Sample Archiving and Secure Backup
- Compliance with GLP, GCP, and ISO Standards
- Cross-Lab Data Validation Projects
- Collaboration with Clinical Genetics Labs
- Long-Term Genetics Research Partnerships
- Data Security and Encrypted Storage

Why Choose Us for Molecular Genetics Research

Outsourcing?

Our experts deliver high-quality, validated genetic datasets and functional insights to support diagnostics, breeding, and genetic research projects.

Industries & Sectors We Serve

- Medical and Clinical Genetics Labs
- Plant and Animal Breeding Companies
- Pharmaceutical and Biotech R&D Units
- Population Genetics Research Groups
- Academic Genetics Departments
- Regulatory and Health Research Agencies

Customized Molecular Genetics Solutions

We design gene panels, CRISPR protocols, and functional validation workflows tailored to your species, trait, or disease focus with regulatory-compliant documentation.

Quality Assurance & Regulatory Compliance

Our workflows comply with GLP, GCP, ISO, and global genetic testing standards, ensuring validated, reproducible, and audit-ready reports.

Case Studies & Client Success Stories

See how our genetics outsourcing has enabled new gene discovery, validated mutations, and supported trait improvement in various species. References available on request.

How It Works: Our Research Outsourcing Process

1. **Requirement Gathering:** Define genetic trait, species, or disease targets.
2. **Proposal & Quotation:** Provide a detailed plan, timeline, and cost estimate.
3. **Lab Execution:** Perform sequencing, genotyping, and bioinformatics analyses.
4. **Data Reporting:** Deliver validated data, mutation findings, and compliance-ready documentation.
5. **Post-Project Support:** Offer publication help, IP consulting, and long-term support.

Frequently Asked Questions (FAQs)

Q: Can you perform functional validation of identified genes?

A: Yes — we provide gene knockout, RNAi, and CRISPR-based validation workflows.

Q: Do you handle rare disease gene discovery?

A: Absolutely — we specialize in variant detection and bioinformatics interpretation for rare genetic disorders.

Q: How secure is my genetic data?

A: Strict NDAs, encrypted servers, and compliance with privacy standards ensure data security.

Get Started / Request a Quote

Contact us today to discuss your molecular genetics project and receive a custom plan, timeline, and cost estimate aligned with your research goals.

Contact Us

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