Next Generation Sequencing



RNA Sequencing



Amplicon Sequencing



Whole Genome Sequencing



Targeted Resequencing



Metagenomics





ChIP Sequencing



Sequencing Only

Quality Speed Value Service



EXPERIENCE THE GENEWIZ DIFFERENCE



Industry-leading Turnaround Time

>98% projects delivered on-time with extraordinarily fast turnaround time options



Optimized Workflows

Latest platforms with automated processes increase scalability, improve reproducibility, and reduce costs



ŪŪŪ

Exceptional Data Quality

Far exceeds manufacturer's criteria with >90% bases scoring Q30 or better (most applications)



Highest Customer Satisfaction

Referrals from existing customers are the #1 source of new GENEWIZ customers



Dedicated Project Managers

Expert study managers provide support throughout the project



NEW AND PROPRIETARY SERVICES



Amplicon-EZ

Fast, ultra-deep sequencing of pre-made PCR products. Starting at \$50/sample with results in as few as 3 business days.



16S MetaVx[™] Metagenomics Sequencing

Proprietary 16S assay with greater sensitivity and specificity than traditional techniques.



genoTYPER-NEXT™

Effective and efficient option to screen targeted cell lines through an automated, interactive platform.



Iso-Seq

Identify novel isoforms, complex splicing events, and improved genome annotations.



Single-Cell RNA-Seq

Explore the transcriptome of cellular subpopulations in highly heterogeneous samples.

Sequel[®] System



NovaSeq[™] | HiSeq[™] | MiSeq[™]





Chromium[™] Controller



CONTACT GENEWIZ: Ph.D. experts available to discuss your project: +1 (908) 222-0711 ext. 1 NGS@genewiz.com genewiz.com

Whole Genome Sequencing

We use the most powerful technologies for germline/somatic variant detection, *de novo* genome assembly, whole genome resequencing, structural variant discovery, and CNV detection.



- Illumina[®] Short-Read Technology
- PacBio Long-Read Technology
- 10x Genomics® DNA Phasing

Targeted Resequencing

Our assays offer high sensitivity and specificity, providing in-depth coverage and high-quality data to help discover point mutations, INDELs, CNVs, and gene rearrangements.



- Whole Exome Sequencing
- 16S MetaVx[™] Metagenomics Sequencing
- genoTYPER-NEXT[™] for Genome Editing Verification
- Single Cell V(D)J Sequencing
- Cancer & Custom Gene Panels:

APPLICATIONS

SOLUTIONS

Genome Assembly Structural Variant Discovery Genome/Haplotype Phasing Genotyping Metagenomics SNP/Variant Genotyping Metagenomics Clone Verification Antibody Repertoire Analysis

Whole Genome Sequencing on the PacBio Sequel

Coupled with GENEWIZ's optimized multiplexing strategy, receive 7x more data than the RSII at lower cost, with lower required input amounts and faster TAT.





Download the Case Study & Tech Note

genewiz.com/wgs

16S MetaVx[™] Metagenomics Sequencing

Detect more bacterial and archaeal genera than traditional 16S assays.

	OENEWIZ:	
	MOR and improved NS Neuron*24	NE Brushe' 33 Manager
	The second secon	any pilet
O CONTRACT.		
	stated in success and an entered area in the set of	I Bernard waters for street
the second se		- he make it with the late
		agenty .
	preserve a server property.	
	HER BERGEN AN GROUP	ind Aways
	Reported	Instantial Volume
	Dan que tara	and a second second
		E an an
11111	-01	500.00
		200
	diff teacher	388
	-COP	100
		5 m 4
	Construction of the second secon	
	Control of the second sec	
	Control of the second sec	
	Comparison of the second	

Download the Case Study & Sample Report genewiz.com/metavx

genoTYPER-NEXT[™]

Automated, interactive, and intuitive platform to effectively and efficiently screen targeted cell lines.

		Rapid, Scalable, and Ultra-Sensitive
		Validation of Abrie Specific Gene Editin
CASE STUDY AUTOMATIO AND		Events with people PUPER NEXT*
Minimp sequence of security he real-and local institution matter. Note and constant and he is institution of sector. To constant and format to		Instantion and Address Temportum
Farmer of the state in particular production		
Figure 3, Anado State Barellow		
1- Notestation		
		From applicat assessments has not related in the last of an improving had before out active indexings and alternative field as
1.		
physical contracts		
	CONTWIC :	

Download the Case Study & Webinar

genewiz.com/genotyper



CONTACT GENEWIZ: Ph.D. experts available to discuss your project: +1 (908) 222-0711 ext. 1 NGS@genewiz.com genewiz.com

RNA Sequencing

Accurately analyze low expression genes and transcripts often not detected by other methods, discover novel genes and isoforms, and assemble transcriptomes not previously studied.



- Standard & Strand-Specific
- mRNA & Long Non-Coding RNA
- Small RNA (miRNA)
- Ultra-Low Input
- Single-Cell Level
- Isoform Sequencing (Iso-Seq)

Amplicon Sequencing

GENEWIZ offers multiple options for ultra-deep sequencing of PCR products using the latest technologies to provide custom, in-depth solutions for amplicons ranging from 100 to 10,000 bp.



- Expedited Sequencing Options
- Customizable Amplicon Sequencing
- Contiguous Long-Read Sequencing (up to 10 kb)

Differential Gene Expression Transcriptome Assembly Genome Annotation Alternative Splicing Analysis Novel Variant/Isoform Discovery Genotyping Antibody Repertoire Analysis Somatic Variant Discovery Genome Editing Verification Variant Phasing Metagenomics

Ultra-Low Input RNA-Seq

Bulk expression analysis of samples containing as low as 10 pg of RNA or just a few cells.



Download the Tech Note

▲ genewiz.com/rna-seq

Single-Cell RNA-Seq

Explore the transcriptome of cellular subpopulations in highly heterogeneous samples.



Download the Case Study & Webinar

Evolution of Amplicon Sequencing

Explore popular applications of NGS-based amplicon sequencing.



Download the Webinar

genewiz.com/amplicon-ez

lso-Seq

Identify novel isoforms, complex splicing events, and improved genome annotations through long-read technology.

			Fall-Length Isoform Sequencing on Pacilio Sequel"
			Maximizing Durput and Accuracy
CHAOTE I IN	14		failed from the fact the SMT request second, second, the model and second of endpoint second of the second
		a belle anglé a	In the state bringht treating to be shown on Tables upon and treating to be upon the state of a state of the
		10.10.000	a strategy of the second s
		The second	Firsts 1 its fee fates and with the head behaviories
		former and	Figure 1. Inc log Canges of with Darts and Schwalights
			Figure 1 too for Entry and with Doo's wall fact output
iyon 3 kandari 3	riped Post Nam		Figure 1 too for (service) with their tool functional parts
agen 2 harden 1			
	inger ben her unter		Figure 1 for face (seeperd with financial)
-	angan basa bas angan basa bas angan angan angan		Figure 1 de los los de la dela dela dela dela dela dela del
-	and banks		Figure 1 de fine (angesel edit fine auf habitatige des subsets
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Figure 1 to the Internet with them are fundaments
			Figure 1 to Sign Discord and Barrier and Hubinitian
	11 11 11 11 11 11 11 11 11 11 11 11 11		Funct index integrated with the state and handware integrated and the state and the s
			Funct in this (support of the Starts and Halandare
			Type 1 to leg together differences in balances
-		11111	The Latence of Latence

Download the Tech Note



CONTACT GENEWIZ: Ph.D. experts available to discuss your project: +1 (908) 222-0711 ext. 1 NGS@genewiz.com genewiz.com

PPLICATIONS

LEARN MORE

ABOUT GENEWIZ

For nearly 20 years, GENEWIZ has been a leader in R&D genomics services, providing superior data quality with unparalleled technical support to enable researchers around the world to advance their scientific discoveries faster than ever before.

Our customers at top-tier pharmaceutical, biotechnology, and academic institutions, as well as cutting-edge start-ups, rely on our proprietary technologies for consistent, reliable, high-quality data, even on the most difficult projects. A full-service provider, we provide Sanger DNA sequencing, next generation sequencing, gene synthesis, molecular biology, bioinformatics, and GLP regulatory services via our network of laboratories across the globe.





GENEWIZ LOCATIONS



CONTACT GENEWIZ: Ph.D. experts available to discuss your project: +1 (908) 222-0711 ext. 1 NGS@genewiz.com genewiz.com