



UNIGENOME

Leading Genomics Innovations

Most Affordable Genome Sequencing

A Lifesciences Division of

Unipath

SPECIALTY LABORATORY Ltd.



www.unigenome.in

Most Affordable Genome Sequencing

Whole Genome Sequencing at Unigenome

» Whole Genome sequencing (WGS) was established with the advent of next generation sequencing in past two decades. WGS helps detecting the genetics of diseases, studying causative relations with cancers, making genome-level comparative analysis, reconstruction of human population history, and giving clinical implications and instructions. Moreover, genomic information has been instrumental in identifying inherited disorders, characterizing the driver mutations responsible for cancer progression, and tracking disease outbreaks. Rapidly dropping sequencing costs and the ability to produce large volumes of data with today's sequencers make whole-genome sequencing a powerful tool for genomics research.

Advantages of Whole Genome Sequencing

- » Sequencing of entire genome at high-resolution
- » Capable of capturing both large and small variants that might be missed with targeted approaches
- » More comprehensive than exome or targeted sequencing as it covers introns and repeats also
- » Highly useful in diagnosing neurological disorders and rare disorders where genes and pathways are unknown
- » WGS helps in detecting a plenty of genetic variation including CNVs, SNPs, indels and structural variations

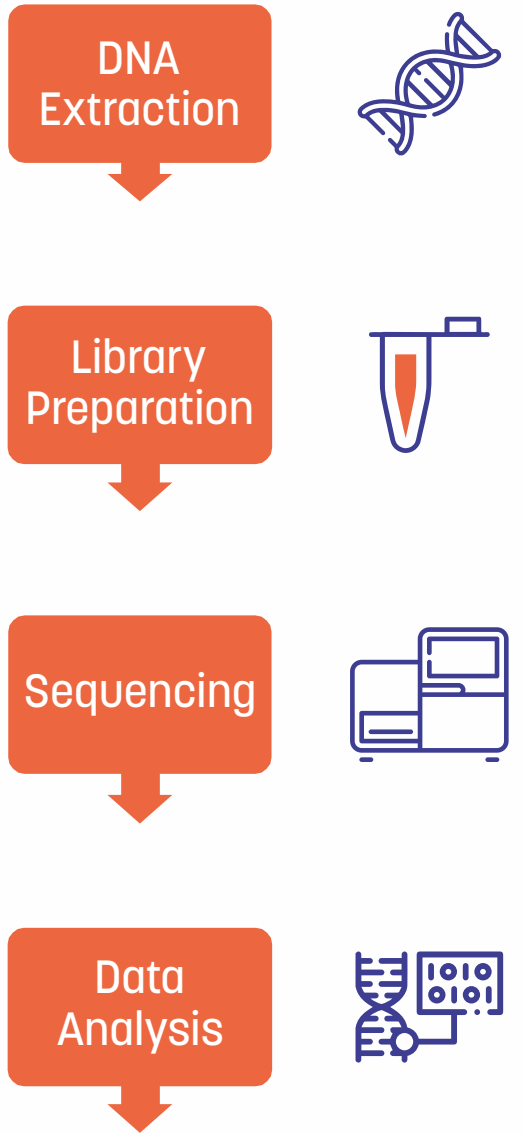
Why WGS with Unigenome

- » Dedicated team of experts for generation and analyzing whole genome data in co-ordination with clinical geneticist
- » No data bias due to PCR
- » Dedicated server to fasten the process of primary, secondary and tertiary analysis
- » Summarized report based on disease in question
- » Pre and post genetic counselling support

Important Aspects of Unigenome WGS Service

- » High Coverage : 30x and 40x Mean Coverage
- » Sequencing : 2 x 150 PE Sequencing
- » Sequencing Platform : Illumina Novaseq 6000
- » Sequencing Data : 90GB and 120GB Data
- » Turn Around Time : 21 working days after Quality Control Check
- » Sample Requirement : 4-5 ml EDTA blood in duplicate tubes

WGS Work flow at Unigenome



Advantages of WGS with Unigenome

30X

Mean Coverage

ACMG

Guidelines

Illumina

Novaseq 6000

21 Days

TAT Post QC

90GB

Data



UNIGENOME

(A Lifesciences Division of Unipath Specialty Laboratory Limited)
Unipath House, Besides Sahjanand College,
Opposite Kamdhenu Complex, Panjarapole, Ambawadi,
Ahmedabad, Gujarat 380015

 www.unigenome.in

 info@unigenome.in