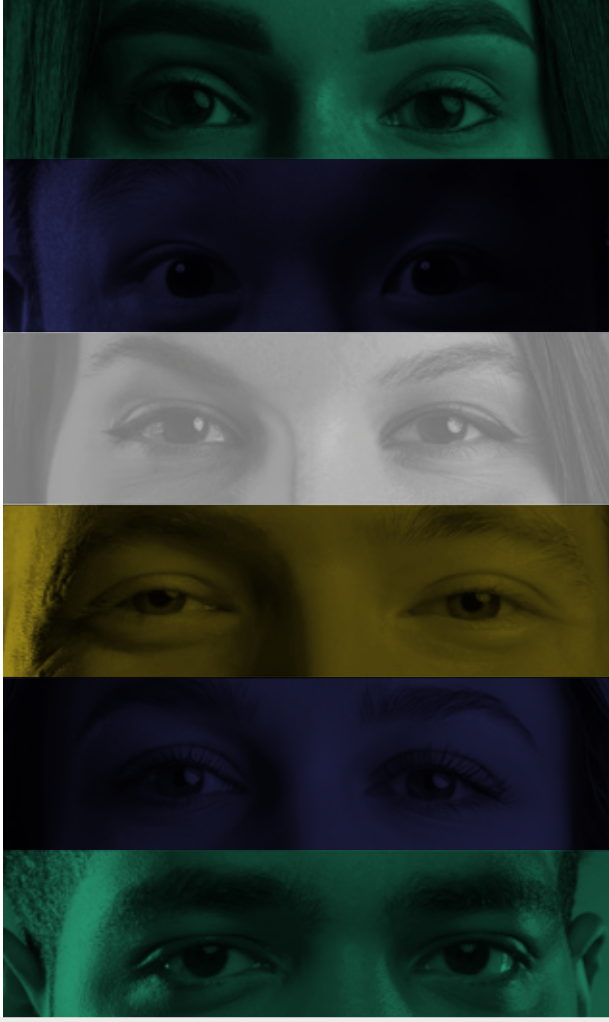
Whole Exome Sequencing

Novo Whole Exome Sequencing (WES) is a comprehensive solution that covers all target regions of all major panels available in the market. With a target size of 69 Mb, it does not compromise coverage and uniformity performance, enabling high efficiency and cost-effectiveness. Novo WES provides information on all protein-coding exons, exon-intron boundaries, and the 5' and 3' untranslated regions (UTRs) across the genome, including the Mitochondrial DNA (~22,000 genes). The coverage spans exon regions obtained from CCD, GENCODE, RefSeq, airbase, and UCSC databases.

Clinical Whole Exome Sequencing

The Clinical Exome Sequencing (CES) Expanded Panel has overcome the limitations of analyzing clinical diseases with whole exome sequencing. By selectively targeting the clinically significant genes (~7 K genes) associated with diverse conditions, 13.4 Mb clinical regions cover disease-related sites at a sequencing depth of >100x. The panel enables comprehensive analysis not only covers the regions of traditional exome probes but also ensures the complete capture of coding sequences related to different diseases by targeted design (e.g.,Reproductive, Neonatal, Cardiovascular, Cerebrovascular, Hereditary Tumors/deafness, Monogenic, Medication Safety, Personal Genome, Immunodeficiency, and Mitochondrial defects)



Why Novogenomics for Whole Exome sequencing?

- Superior uniformity enables accurate variant calling with minimal sequencing cost and on-target performance with the highest level of gene coverage.
- Comprehensive coverage of human coding genes, Mitochondrial, and CNV sequences.
- Faster TAT (Turn-Around-Times)
- Options of genetic counseling
- Committed to provide clinical diagnosis and support to customers 24 X 7
- The test is performed locally, including bioinformatics pipelines.

Conditions covered

- Nervous System
- Cardiovascular System
- Ear , Nose & Throat (ENT)
- Urinary System
- Gastrointestinal System
- Ophthalmology
- Metabolic
- Obstetrics & Gynaecology
- Dermatology
- Immune System
- Hematological
- Endocrine System
- Oncology
- Bone dysplasia
- Pulmonology

novo genomics

Whole Exome sequencing

Gain clinical insights with the power of large scale genomics

Whole Exome Sequencing is Next Generation Sequencing (NGS) based test designed to provide a molecular genetic diagnosis of inherited diseases /disorders & complex phenotype whose genetic etiology is unknown.

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