

Gene Expression Analysis (Whole Transcriptome Sequencing)

Human Gene Expression analysis including Whole Transcriptome sequencing and data analysis for predicting the disease onset precisely so as to tune the personalized treatment accordingly

This service is ideal for those end users who have already availed the WES/WGS service with a specific medical condition. The concerned Physician may like to know whether the genes with critical variants are expressed and if so to what extent to determine the course of drug regimen. Correct dosage and targeted treatment are very critical in several cancers.

Accuracy of Genetic variant annotations: >90%

Data output: 10 Gb

Data visualization: Customized Cloud based Interactive Knowledgebase accessible through Internet on Smart phone/PC/Tablet

Report: Custom report (PDF format) generation as required by Genetic consultant/Physician for a specific medical condition or wellness management.

ClinGen Whole Transcriptome Sequencing and Data analysis to get a holistic Gene Expression pattern at any given time and condition. Data generation, analysis and visualization to be carried out as above. Whole Transcriptome sequencing (RNA sequencing) and Data analysis to analyse the Gene Expression levels of targeted genes. Our Whole Transcriptome Sequencing and analysis provide the Gene Expression values of not only the known targeted genes also but also can reveal any unknown and abnormal rates of Gene Expression in any related genes in a given disease pathway. This comprehensive knowledge enables the doctor/ genetic counsellor for better Precision Medicine practice. This transcriptome data will also be available on the same ClinGen Kb at no additional cost. Data will be analysed on Supercomputer with highly compute intensive algorithms in automated workflows to avoid any human errors and for faster Turn Around Time. Results to be available in a customised and dynamic knowledgebase hosted in the Cloud. Custom PDF reports can be generated for any set of genes or medical conditions as and when required.

