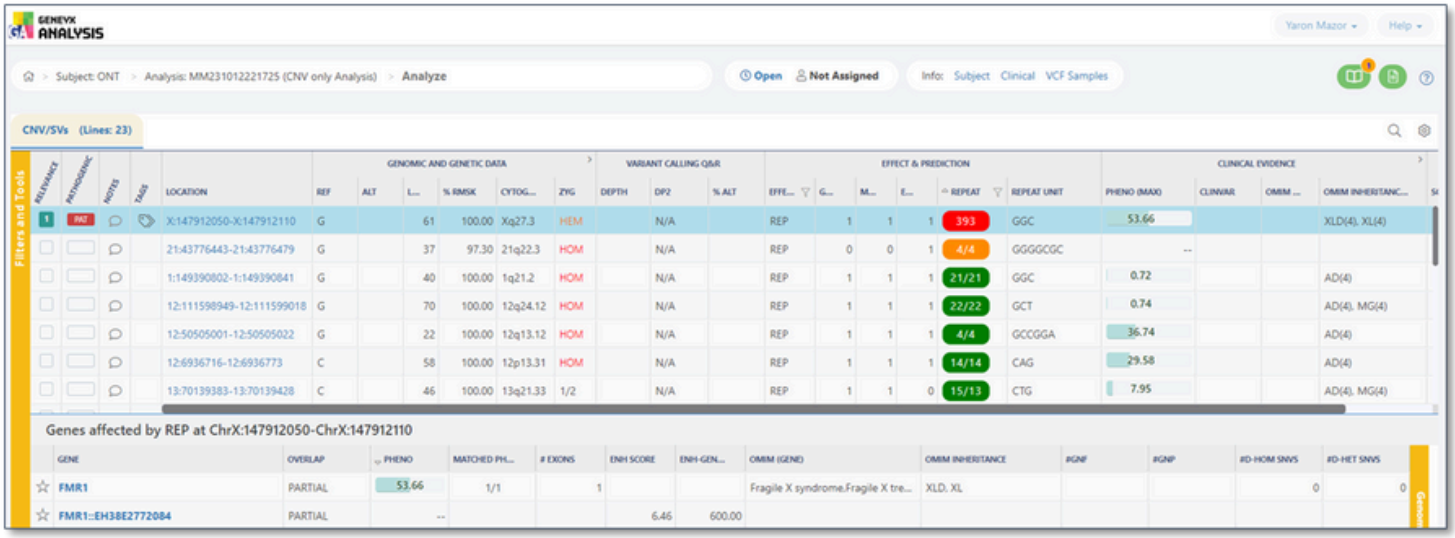
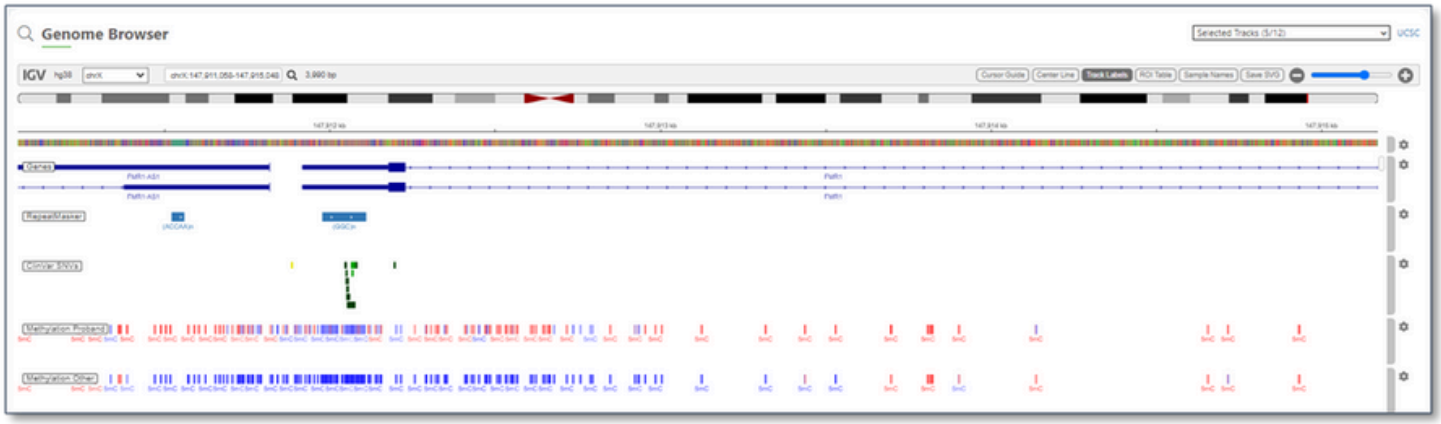
# Solve the Unsolved Using Long-Read Sequencing with PacBio's HiFi Long-Read Systems and Geneyx Analysis Solution

Geneyx Analysis is a leading tertiary analysis platform tailored for high-fidelity long-read sequencing data with a swift, high-throughput workflow. Geneyx Analysis stands out for its ability to uncover insights from challenging unexplained cases through advanced processing, visualization, and analysis techniques coupled with updated annotations, phasing, and methylation analysis. Geneyx combines smart filtering and a novel phenotypic prioritization algorithm that integrates literature and machine learning to present the best candidate variant. Geneyx Analysis seamlessly integrates into any bioinformatic pipeline, making it a confident choice for HiFi Long-Read Sequencing data.




*Repeat Expansion analysis showing full mutation in the FMR1 gene, responsible for Fragile X Syndrome.*




*Long-read methylation analysis of FMR1 in affected vs. control. Methylated CpG sites are marked in red.*

Scan for more info and a video

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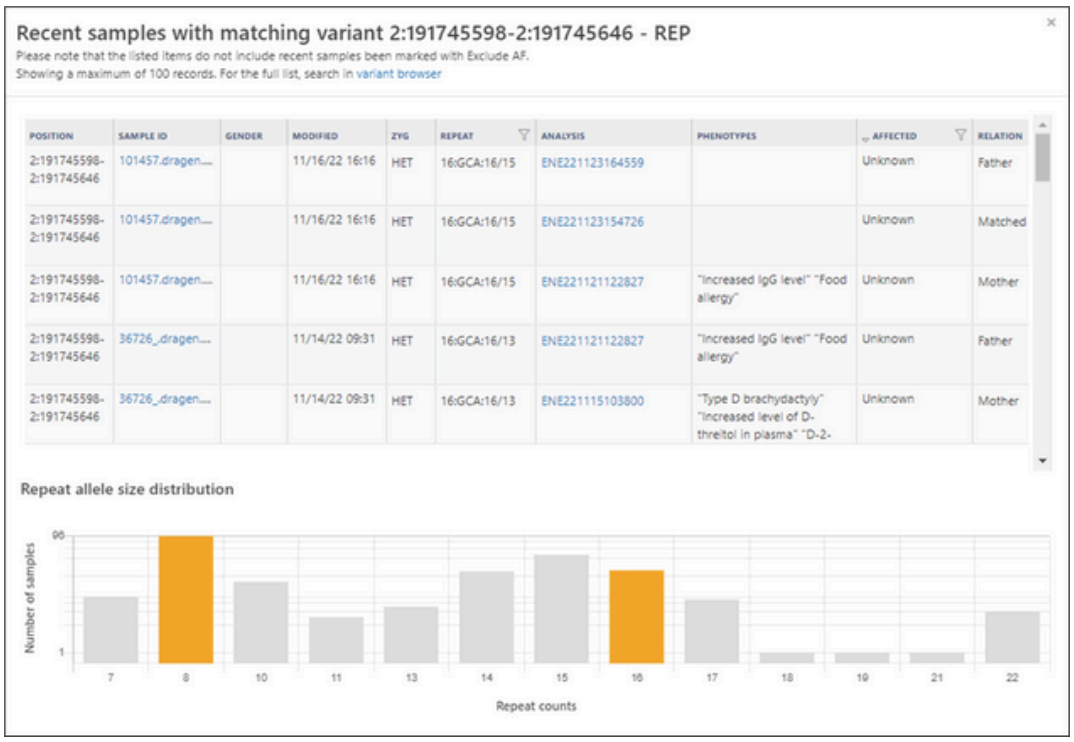
# Key Features:

- Confident choice for HiFi Long-Read Sequencing data
- Seamless integration into any bioinformatic pipeline
- Novel phenotypic prioritization algorithms
- Best candidate variant prioritization
- Repeat expansion
- Phasing analysis
- Support for multi-sample VCF files
- SMART filtering for genomes, including CNVs, SVs, repeats, fusions, and enhancer analysis

Geneyx Analysis stands out as a leading solution for High-Fidelity (HiFi) data analysis, a distinction underscored by numerous global pilot studies that demonstrate its remarkable ability to shed light on medical mysteries, especially in the most challenging cases.




*Repeat counts distribution in GLS gene – sample repeat alleles shown in orange.*

Geneyx Analysis is at the forefront of pioneering multi-omics applications, leveraging cutting-edge PacBio technology to delve into genomics and epigenetics. Our innovative approach seamlessly addresses the core components of the Central Dogma: DNA, RNA, and protein. This groundbreaking approach is poised to revolutionize the resolution of intricate cases, helping to enable a comprehensive toolkit that promises to redefine patient care.

Don't miss out on the transformative potential of Long-Read sequencing. Enhance your capabilities with Geneyx Analysis and unlock a wealth of information hidden in your genetic data. Contact us today to learn more.

Scan for access to a Long Read Variant Analysis course

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