

HLA Explore™ NGS software

HLA Explore is HLA genotyping software for genetics/genomics researchers for the analysis and interpretation of any NGS data. It is flexible and customizable to handle all sequencing data types from short read technologies such as Illumina and Ion Torrent, as well as newer long-read technologies from Pacific Biosciences, Oxford Nanopore.

HLA Explore can analyze data from any experiment type i.e. targeted exons, targeted whole genes, whole MHC, whole exome or whole genome. It is a high-performance, high-throughput and high-resolution multi-sample software for genotyping analysis, interpretation and reporting.

Product Highlights

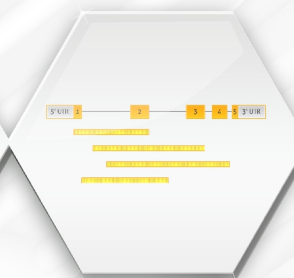
HLA RESEARCH



ANY PLATFORM



ANY INPUT

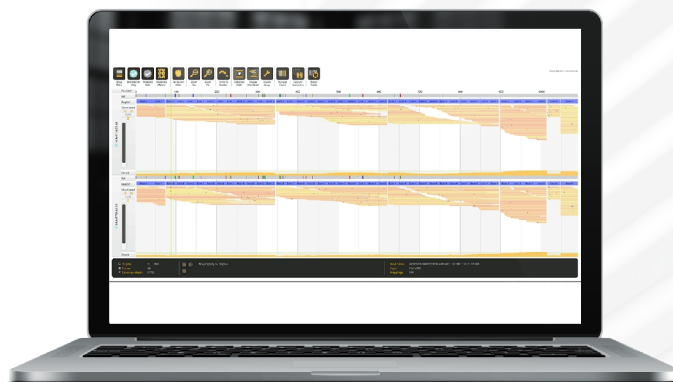


EXON ANALYSIS



- Unambiguous fourth-field genotyping results for targeted whole-gene data*
- Unambiguous third-field genotyping results for targeted exons, whole exome or whole genome data*
- Platforms: Illumina, Ion Torrent, Pacific Biosciences and Oxford Nanopore
- Command line automation for integrations with in-house pipelines
- Fast, high throughput, high resolution genotyping for up to 33 HLA loci of the MHC
- Mismatch reporting based on simple base statistics
- Novel allele detection
- Support for external databases (Allele Frequency)
- Export HML 1.0.1 and PDF Summary Reports

**depends on experimental design*



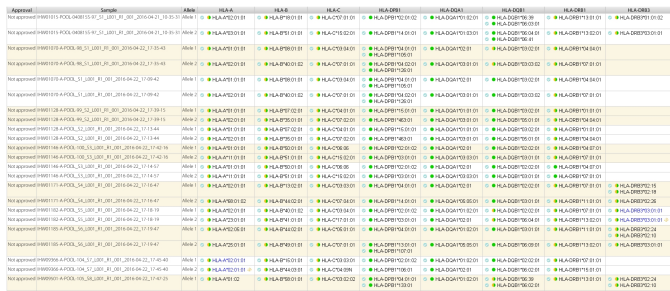


Figure: 3-field genotyping results from targeted sequencing data

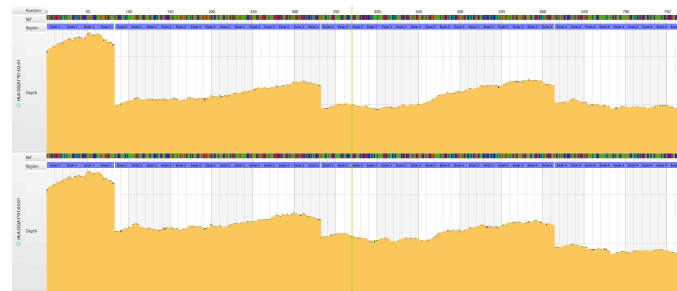


Figure: Coverage depth profile of targeted sequencing data

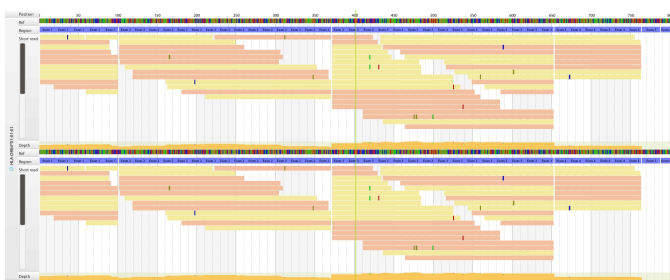


Figure: Random noise in high coverage whole genome sequencing data

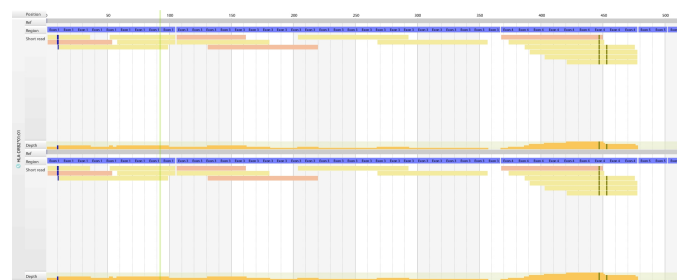


Figure: HLA-DRB2 novel allele candidate found in low coverage whole genome sequencing data

“ Together with Omixon, we have used next-generation sequencing tools to significantly advance HLA typing.

Prof. Dimitri Monos, The Children’s Hospital of Philadelphia

Licensing

Omixon HLA Explore is licensed for Desktop computer and Client/Server architectures.

The base module comes with the majority of features for analysis and interpretation of short read sequence data (Illumina, Ion Torrent) for targeted experimental approaches. There are additional modules for Long Read Analysis and Big Data Analysis (WGS and WES).



	PRICE PER COMPUTE NODE*	
	Desktop	Client/Server
HLA Explore	\$3,000	\$10,000
Long Read Analysis Module	\$1,500	\$5,000
Big Data Module	\$1,500	\$5,000

* Implemented as a hardware key, "node locked" license
 Sold as Annual Subscription Licenses with unlimited analyses
 HLA Explore "Base" includes analysis of Targeted Data and all data interpretation modules
 Discounts can be applied for multiple modules and multiple users

Technical Requirements

Requirement	Clients and Desktops	Server
RAM	16+ GB	32+ GB
CPU	4+ cores	8+ cores
HDD	1 TB	2 TB



All Omixon activities covered by an ISO 13485:2003 & EN ISO 13485:2012 Quality Management System (QMS)