Genomic Prediction provides superior services for advanced genetic testing for IVF.

What makes us different?

**Monogenic**
Familiar disease risks

**Polygenic**
Complex disease risks

Genomic Prediction is a pioneer in preimplantation genetic testing. We have developed a novel, genome-wide molecular genotyping methodology.

Our variation of preimplantation genomic testing reduces disease risk, improving newborn health outcomes by identifying which embryos are genetically normal.
SEQ

Genomic Sequence Quantification

SEQ is our exclusive method for amplification of DNA from embryo biopsies. Our method provides an unparalleled ability to accurately quantify chromosomes for aneuploidy screening, as well as facilitate the genotyping of single-gene and polygenic disorders. Compared to the leading aneuploidy screens on the market, SEQ is:

- Efficient - less hands-on time and fewer pipetting steps
- Less expensive
- Significantly easier to perform
- Sensitive to segmental aneuploidy and mosaicism
- Sample to library in a single step

In addition, SEQ facilitates SNP-level genotyping of the whole genome, in parallel with this accurate and reliable copy number analysis. This SNP-level genotyping provides added confidence for detecting trisomy and monosomy, by providing allele ratio and loss of heterozygosity information for each chromosome. SNP genotypes also help prevent misdiagnosis from contamination and polyploidy.

By avoiding error-prone whole genome amplification, SEQ also allows for simultaneous amplification of DNA targets specific to families at risk of single-gene disorders.

EPGT

Expanded Pre-Implantation Genomic Testing

When using SEQ, you have the option to perform expanded preimplantation genetic testing - EPGT -, our flagship product, which expands genetic testing to include SNP panels evaluating the risk of single-gene disorders, and evaluation of polygenic disorder risk.

EPGT allows the routine, inexpensive evaluation of hundreds of thousands of genetic variants, implementing a novel combination of embryo genotyping methods not previously combined into a reproductive genetics application. Among the genetic disorders whose phenotype risk can routinely be diagnosed by our genotyping methodology are:

- 300+ common single-gene disorders, such as Cystic Fibrosis, Thalassemia, BRCA, Sickle Cell Anemia, and Gaucher Disease
- Dwarfism Risk
- Osteoporosis Risk

The Genomic Prediction team comprises scientists at the forefront of polygenic trait prediction in human adults. Now, they are directing their proven methodology towards the human embryo.

As the first company to translate genomic predictors of polygenic disease risk into disease prevention through PGT, we set a world precedent for improved clinical care in IVF with our EPGT method.

Genomic Prediction

GenomicPrediction.com
675 U.S. Highway 1, Blockbuster Suite
North Brunswick, NJ 08902
Phone: +1 973-529-4284
Email: contact@genomicprediction.com