

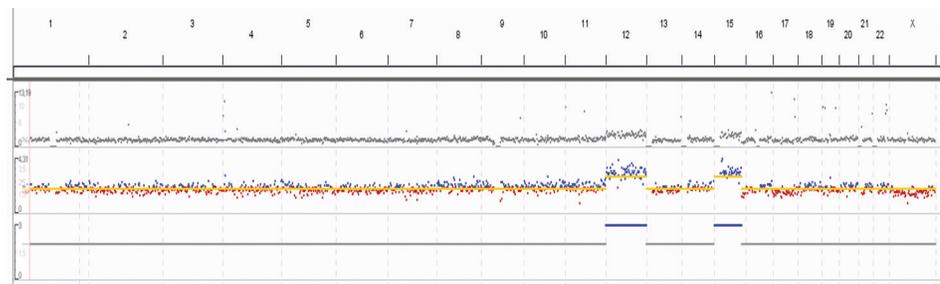
# Ion ReproSeq PGS View Kit

The fastest benchtop next-generation sequencing workflow for aneuploidy analysis



## A rapid, cost-effective, and comprehensive next-generation sequencing (NGS) solution for aneuploidy analysis

The Ion ReproSeq™ PGS View Kit with the Ion PGM™ System allows for rapid and affordable detection of aneuploidies in all 24 sets of chromosomes (Figure 1) for labs interested in rapidly and reliably assessing preimplantation embryos for aneuploidy. Using just 6 pg of DNA from a single cell or multiple cells, this kit enables accurate detection of whole-chromosome and chromosome-arm events in as little as 8 hours.\* The Ion PGM System provides throughput flexibility, enabling cost-effective analysis of 2–24 samples and minimizing the need to batch samples.



**Figure 1. Aneuploidy detection in a preimplantation embryo, using the Ion ReproSeq PGS Kit.** Data show deviation (in blue) from baseline, indicating trisomy of chromosome 12 and chromosome 15, and two copies of the remaining autosomes and the X chromosome. Data shown here were kindly provided by Dr. Luis A. Alcaraz of Bioarray, Spain.

### On-demand aneuploidy assessment

Scalable workflow minimizes the need for sample batching

### Cells to results in as little as 8 hours

Fastest NGS workflow for aneuploidy analysis

### Simple, end-to-end workflow with integrated data analysis

Automated and customizable visualization reports

\* Turnaround time for the Ion ReproSeq PGS View Kit workflow is as little as 8 hours with the Ion 314™ Chip and as little as 10 hours with the Ion 318™ Chip.

## Cost-effective workflow that scales to your throughput needs

The Ion ReproSeq PGS View Kit, along with the Ion PGM System, delivers scalability and flexibility for various levels of sample throughput. Choose the one that fits your throughput needs from a range of 3 sequencing chips to process 2–24 samples. This minimizes the need for batching to achieve cost efficiency.

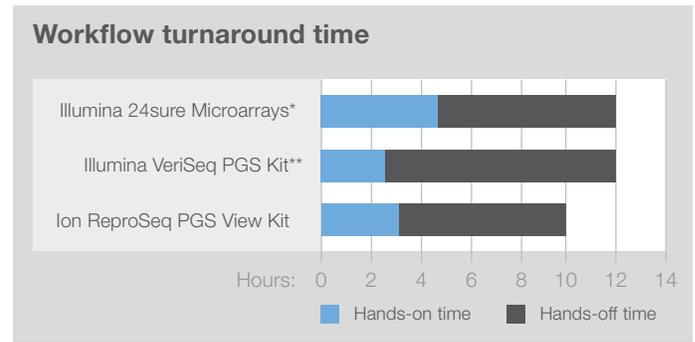
## Rapid turnaround for time-sensitive samples

Leveraging the speed of semiconductor sequencing and template preparation by isothermal amplification, the Ion ReproSeq PGS View Kit offers the fastest benchtop NGS workflow for aneuploidy analysis (Figures 2 and 3). Go from a single cell or multiple cells isolated from a preimplantation embryo to analyzed data in as little as 8 hours when assaying up to 2 samples, or as little as 10 hours with up to 24 samples. This rapid turnaround time enables fast identification of chromosomally normal embryos.

## Ordering information

Product	Quantity	Cat. No.
Ion ReproSeq PGS 314 View Kit, with Chips	Up to 2 samples per chip, 8 chips included	A32243
Ion ReproSeq PGS 316 View Kit, with Chips	Up to 15 samples per chip, 8 chips included	A32249
Ion ReproSeq PGS 318 View Kit, with Chips	Up to 24 samples per chip, 8 chips included	A32250
Ion ReproSeq PGS 314 View Kit, without Chips	16 samples	A32251
Ion ReproSeq PGS 316 View Kit, without Chips	120 samples	A32252
Ion ReproSeq PGS 318 View Kit, without Chips	192 samples	A32253

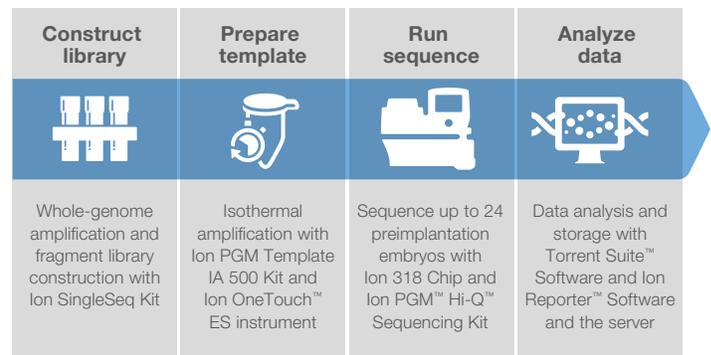
Find out more at [thermofisher.com/ionreproseq](http://thermofisher.com/ionreproseq)



\* Values obtained from the Illumina 24sure Microarray Kit protocol.

\*\* Values obtained from VeriSeq PGS Kit presentation slides by Illumina.

**Figure 2. Comparison of hands-on and total turnaround time for complete aneuploidy analysis with Illumina™ 24sure™ Microarrays (12 samples), Illumina™ VeriSeq™ PGS Kit (24 samples), and Ion ReproSeq PGS View Kit (24 samples).**



**Figure 3. Rapid workflow using Ion ReproSeq PGS View Kit from a single cell to aneuploidy detection.** The Ion ReproSeq PGS View Kit bundle includes all materials for library construction, template preparation, and sequencing.