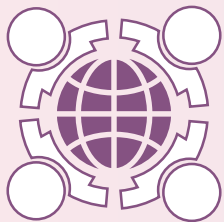


ENABLING ACCURATE NON-INVASIVE PGT

PG-Seq™ Rapid Non-Invasive PGT Kit with High Correlation to Biopsied Embryos

for Illumina® & Thermo Fisher® Ion Torrent® Instruments

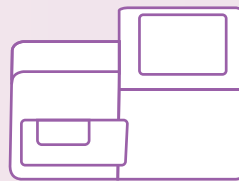
The PG-Seq™ Rapid Non-invasive PGT kit has been specifically developed to analyze picogram quantities of DNA (low template DNA) from spent embryo culture media or blastocoelic fluid samples for non-invasive preimplantation genetic testing. Optimization of the kit was performed using non-invasive samples provided to PerkinElmer from 15 labs around the world, each using different embryology protocols and accuracy was assessed by the degree of correlation to embryo biopsies tested with a range of commercially available PGT-A kits.



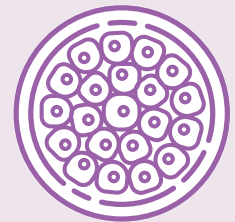
Developed in global
collaboration



3-hour sample
preparation



Multiple sequencer
compatibility



Optimized for
biopsy-free PGT

PG-Seq™ Rapid Non-Invasive PGT Workflow

SPENT CULTURE MEDIA OR BLASTOCOELE FLUID



PCR 1 WGA (1 HR 20 MIN)

DOP + UNIVERSAL SITE



PCR 2 ADAPTER & INDEX ADDITION (20 MIN)

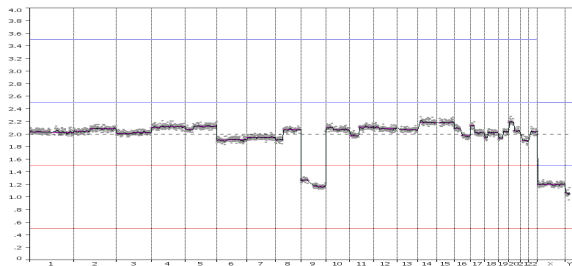
INDEX + ADAPTER



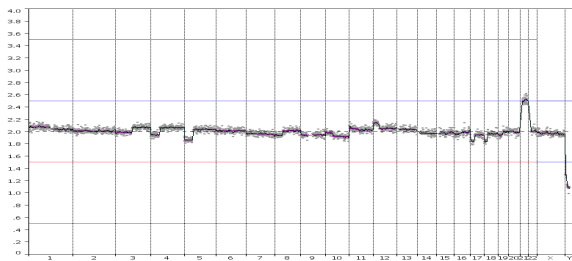
CLEAN-UP

SEQUENCE

The kit is a modified version of the PG-Seq™ Rapid kit, which uses a two-step PCR to whole genome amplify and then attach indexes and sequencer-specific adapters to the template DNA, in a fast, 3-hour sample preparation workflow. The kit is available in an Illumina® or Thermo Fisher® Ion Torrent® sequencer compatible formats. From DNA to data analysis, the kit includes all reagents required for whole genome amplification, indexing, plus PG-Find™ analysis software for automatic calling of aneuploidy and copy number variants.



Culture media sample 1; 45,XY,-9 | Concordant with embryo biopsy



Culture media sample 2; 47,XX,+21 | Concordant with embryo biopsy

Preliminary findings from the global collaboration:

- Removal of cumulus cells and changing media on day 3 reduces maternal contamination
- Using a customised reagent kit to amplify culture media significantly improves quality and accuracy of results
- Individual labs have different rates of concordance between biopsy and non-invasive sample result and some modifications to embryology protocols may be required.

ORDERING INFORMATION

Catalog #	Product
4328-0010	PG-Seq™ Rapid Non-Invasive Kit for Illumina® NGS
4329-0010	PG-Seq™ Rapid Non-Invasive Kit for Thermo Fisher® Ion Torrent® NGS

For more information visit perkinelmer-appliedgenomics.com/NI-PGT or contact your local PerkinElmer representative.

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