reproductive health

applied biosystems ion torrent

Building brighter futures together

Your trusted partner for reproductive health solutions

Empowering you with innovative technologies is our passion—we know that the scientific advances you make help build healthier families. From preconception carrier screening through preimplantation genetic testing to prenatal and postnatal applications, our comprehensive portfolio of reproductive health solutions can help you achieve your clinical research goals and positively impact families around the world in the future. We strive to be your trusted partner on this inspiring reproductive health journey.

Preconception carrier screening research

Ion Torrent™ CarrierSeq™ ECS Kits

- Rigorously designed specifically for expanded carrier screening (ECS) research
- 420-gene panel to analyze single-nucleotide variants (SNVs) and copy number variations (CNVs) for 28,000 non-benign ClinVar variants in a consolidated next-generation sequncing (NGS) assay
- Complete solution that includes targeted content, optimized reagents, and intuitive data analysis software to simplify and streamline implementation

Find out more at
thermofisher.com/carrierseq

Applied Biosystems™ CarrierMax™ Reagents

- Accurate, reliable, and cost-effective testing for *FMR1* and *SMN1* genes
- Detect the number of CGG repeats in the *FMR1* gene using a dual-PCR system combining full-length and triplet-primed PCR amplification (TP-PCR)
- Multiplex PCR amplification and fragment analysis to detect deletions in exon 7 that result in truncated SMN protein and silent carrier (2 + 0) haplotype detection

Find out more at
thermofisher.com/carriermax-fmr1

Applied Biosystems™ CarrierScan™ Assay

- A single solution for expanded carrier screening research
- Consolidates sequence and structural variants into a single assay for increased productivity
- Generates reliable results from empirically selected probes that provide biological verification of the most common variants
- Provides easy data analysis through powerful algorithms and curated annotations with automatic calculations for single or paired sample analysis; also enables customizable exporting and reporting of files

Find out more at
thermofisher.com/carrierscan

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Choose from our comprehensive portfolio of reproductive health solutions

Preimplantation genetic testing

Ion ReproSeq™ PGS Kits

- A simple and scalable NGS workflow for aneuploidy analysis of embryo biopsy samples
- Rapid and cost-effective workflow for 16, 24, or 96 samples per run; 10–13 hours from cells to analyzed data
- Enhanced interpretation of results with adjustable workflows for increased analytical sensitivity to detect segmental CNV events and low-level mosaicism calling

Find out more at **thermofisher.com/reproseq**

Ion PGD-SEQ™ Kits

- A comprehensive NGS solution providing library preparation reagents and data analysis software for monogenic analysis of embryo biopsy samples
- Combined with the Ion ReproSeq PGS kits, PGD-SEQ kits enable preimplantation genetic testing for monogenic and aneuploidies (PGT-M and PGT-A) from a single embryo biopsy
- Direct analysis of common variants (SNVs or indels)

Prenatal and postnatal testings

Applied Biosystems™ CytoScan™ Cytogenetics Suite

- A balanced whole-genome microarray with hybrid design, including both copy number probes and single-nucleotide polymorphisms (SNPs) for improved confidence
- Offers exceptional performance with high analytical sensitivity and specificity, dynamic range, and resolution across the genome
- Provides sensitive mosaic detection and streamlined data analysis

Find out more at **thermofisher.com/cytoscan**

Applied Biosystems™ CytoScan™ XON Suite

- An exon-level microarray designed to comprehensively detect single-exon deletions and duplications in a cost-effective manner
- Complements NGS mutation analysis to reliably confirm CNVs
- Simple and streamlined variant analysis and reporting flexibility with gene panel or gene-level tier options

Find out more at **thermofisher.com/cytoscanxon**

Newborn screening

Applied Biosystems™ TaqMan® SCID/SMA Plus Assay

- A robust multiplex qPCR assay for T cell recombination excision circles (TREC), kappa-deleting element recombination circles (KREC), and specific *SMN1* detection
- A simple and quick protocol with direct extraction from dried blood spot (DBS) and no DNA purification requirement
- Enjoy the benefits of fully kitted high-quality reagents, assays, instruments, and support

Find out more at **thermofisher.com/rh**

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