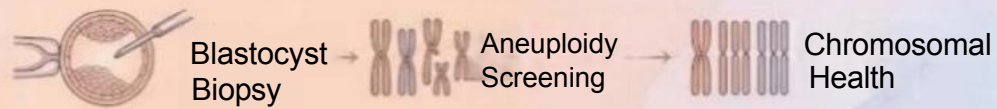


Preimplantation Genetic Testing for Aneuploidy(PGT-A) Ensuring a Healthy Start



Selects the best embryo for transfer

Increases chances of a successful, healthy pregnancy

Comprehensive Screening for a Healthy Future

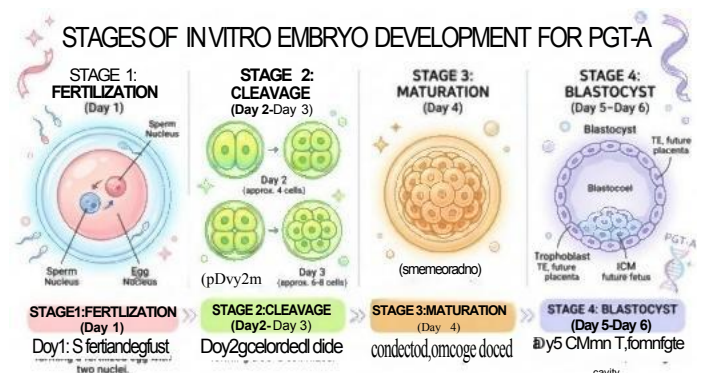
Core auxiliary technology for IVF. Precise sampling of trophoblast cells at the blastocyst stage, high-throughput sequencing to screen for chromosomal aneuploidy, select high-quality embryos, greatly improve the success rate of assisted reproduction and protect embryo health.

Detection Scope

23 pairs of chromosome aneuploidies
>4Mb microdeletions/microduplications.

Sample Type

Blastocyst stage 3-5 trophoblast cells.



Applicable population

- Advanced maternal age (age ≥ 38 years)
- Recurrent implantation failure (≥ 3 unsuccessful transfers)
- Recurrent spontaneous abortion (≥ 2 times)
- Severe male factor infertility
- Previous birth of a child with chromosomal abnormalities
- Other high-risk populations

Performance Validation

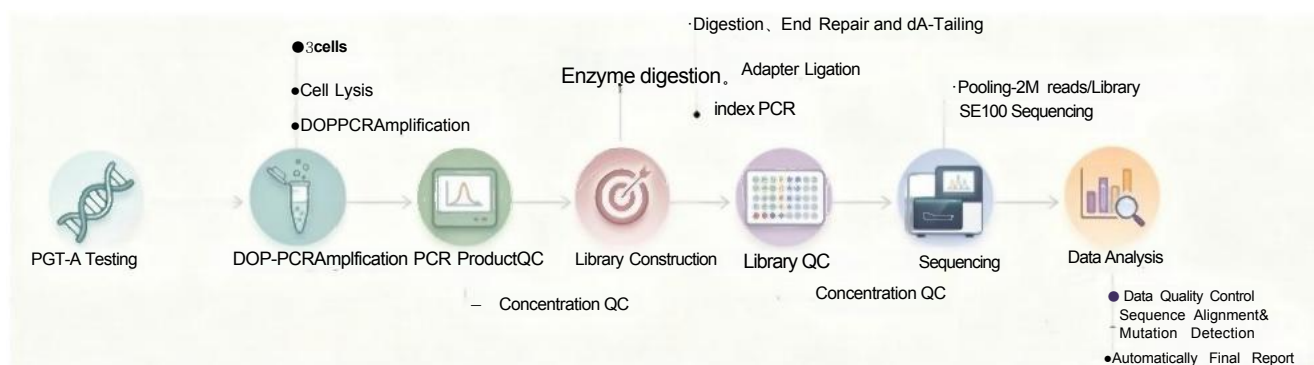
Reagent Kit	Lysis System		4M CNV	>4M CNV	70% mosaicism	Control	aneuploidy
PGT-A	12 μL	#Num	56	60	67	18	22
		#Detected	56	60	67	18	22
		#FP	0	0	0	0	0

The entire process cycle

CYGNUS's PGT-A: Powered by our proprietary high-throughput sequencers, offering a complete solution of instruments, reagents and software for the full workflow. CYGNUS's localized PGT-A delivers results in just 15 hours.

Technical Principle

After lysis of blastocyst-stage trophectoderm cells, whole-genome amplification is performed. The amplified products are digested and used for library construction, followed by high-throughput sequencing. Bioinformatic analysis is conducted on the sequencing data to determine whether the embryo has chromosomal aneuploidy or segments with copy number variations (CNV).



Order information

Catalog.No	Name
G-211-221-101	Preimplantation Genetic Testing for Aneuploidies (PGT-A) Kit (WGA Kit)
G-211-222-101	Preimplantation Genetic Testing for Aneuploidies (PGT-A) Kit (Library Kit)
G-211-224-101	Preimplantation Genetic Testing for Aneuploidies (PGT-A) Kit (Cell Preservation Kit)

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