ReproNIM® Carrier

Genetic compatibility test

Inherit Life

NIMGenetics
New Integrated Medical Genetics
ReproNIM® Carrier

Genetic compatibility test that combines massive sequencing (NGS) and other molecular genetic technologies to establish whether the parents are carriers of recessive diseases or diseases linked to the X chromosome.

What do we study?

- > 130 Diseases
- > 4,000 Mutations

Our aim is clinical utility, without uncertainty.

- Test targeted towards the most prevalent diseases.
- We report only the pathogenic variants.

ReproNIM® Carrier is aimed at:

- Couples who want to be parents
- Egg and sperm donors
- Egg and sperm recipients

There are many diseases that can manifest in offspring, although the parents are not affected.

Inheritance is a determining factor

**Autosomal recessive inheritance**

- If both parents are carriers, there is a 25% chance of having an affected child

**Examples:**

- Cystic fibrosis
- Beta thalassemia
- Muscular spinal atrophy

Even though the parents are not carriers, the disease could appear in the child if it occurs de novo.

- 50% of children are carriers
- 25% of children are non-carriers
- 25% of children are affected

**X-linked inheritance**

**Female Carrier**

**Male Carrier**

**Female Non-carrier**

**Male Non-carrier**

If one parent is a carrier and the other is not, there is a 50% chance of having an affected child.

**Examples:**

- Hemophilia A and B
- Fragile X syndrome

Even though the parents are not carriers, the disease could appear in the child if it occurs de novo.

- 50% of children are carriers
- 50% of children are non-carriers

Inheritance is a determining factor.
SAMPLE CONDITIONS:
Peripheral blood: 3-5 ml in EDTA

DOCUMENTATION REQUIRED:
1. Request form*
2. Informed consent*
3. Medical report

ADVICE
Immediate accessibility to the NIMGenetics team for genetic counseling.

ACCRREDITED EXPERIENCE
Members of AEDP\textsuperscript{1} and accredited by AEGH\textsuperscript{2}

CERTIFIED QUALITY
Our laboratories follow the quality controls of the EMQN\textsuperscript{3}

\textsuperscript{*1}: Spanish Association of Prenatal Diagnosis.
\textsuperscript{*2}: Spanish Association of Human Genetics.
\textsuperscript{*3}: European Molecular Genetics Quality Network.
NIMGenetics
New Integrated Medical Genetics

EMQN
"The European Molecular Genetics Quality Network"

La Sura de Todos
Comunidad de Madrid

NIMGenetics is a Genetics Diagnosis center authorized by the Health and Consumer Department for the Community of Madrid, being duly registered under Nº CS10673

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