

CentoScreen Exome Portfolio

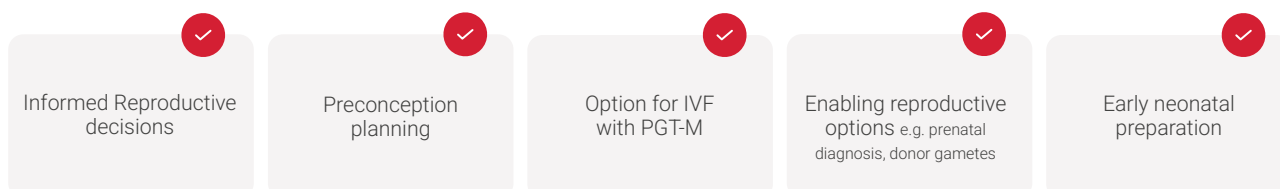


The Earliest Step to Responsible Family Planning

At CENTOGENE, we understand the importance of planning for a healthy future. All of us are carriers of at least one genetic condition. Most carriers are healthy with no family history, but they are at risk of passing on a genetic condition to their child. Carrier screening is a genetic test that can assess the risk of being a carrier of an autosomal (for both partners) and X-linked disorder (for the female partners).

Our reproductive genetic carrier screening panels are specifically designed to assess the risk of being a carrier of genetic variants that could be transmitted to an offspring. This enables informed family planning and ensures peace of mind for the couple.

Why is it helpful?



Key Advantages of CentoScreen* Exome Portfolio

Key Variant Detection

The different CentoScreen Exome panels include auxiliary methods for complex variant detection in genes which are important for reproductive carrier screening such as *CYP21A2*, *HBA*, *FMR1* (females only), *F8* (females only), and *SMN1*.



Versatile Compatibility

Our test is compatible with various approaches including solo, couple, matching, and donor-bank scenarios. Options for low and high risk couples. A range of panel sizes is available to accommodate different clinical needs.



* Please note: CentoScreen Exome are screening tests and the results should be interpreted in the context of screening. Although a negative screening result significantly reduces the risk of being a carrier of a medical condition related to the panel genes, it does not eliminate the risk. A negative result for these panels does not rule out the possibility of a genetic condition in the consultand or their offspring.

Anticipating the Risk of Having a Child With a **Genetic Disease**



Low Risk Couples

No family history of genetic disorders, unaffected individuals.

Variant-based analysis: targeting pathogenic and likely pathogenic variants from ClinVar, HGMD and our internal biodatabank. Our variant-based tests include more than 3,000 variants which are unique at CENTOGENE Biodatabank.

High Risk Couples

Family history of genetic disorder(s), individuals affected with a genetic disorder, consanguineous couples.

Full gene analysis: CENTOGENE expertise in reproductive carrier screening analysis and interpretation while taking into consideration previous results, family history and other important clinical information for the couple.

Key Product Features of CentoScreen **Exome**

for Couples with Low Risk

CentoScreen Exome

CentoScreen Exome targets more than 55,000 pathogenic or likely pathogenic variants in over 1,900 genes linked to autosomal recessive or X-linked disorders - for unaffected, non-consanguineous couples with no family history of genetic disorders.

- CentoScreen Exome Focused: > 13,900 variants** in 141 genes
- CentoScreen Exome Focused Plus: > 36,000 variants** in 539 genes
- CentoScreen Exome: > 55,000 variants** in 1,907 genes

Complimentary assays for: CYP21A2, F8 inversion intron 22 (females), HBA, FMR1 (females), SMN1 and CNV analysis for DMD (females) and GJB6.

for Couples with High Risk

CentoScreen Exome Comprehensive

Our new full gene analysis test covers more than 1,900 genes associated with autosomal recessive or X-linked disorders. It assesses carrier risk for pathogenic or likely pathogenic variants: autosomal recessive in both genders, X-linked in females only.

Additional options:

- Phenotype-based Dx analysis
- ACMG secondary findings reporting (at no added cost)
- Female/male fertility panel options
- Other fertility-related analyses: aneuploidy MLPA (female and male partners), AZF MLPA (male partners)

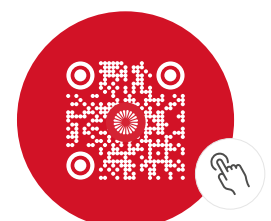
Complimentary assays for: F8 inversion intron 22 analysis (females), FMR1 repeat expansion analysis (females), SMN1 CNV analysis, CYP21A2 Sanger sequencing, and MLPA analysis of CYP21A2, HBA1, HBA2 (both genders).

New

** For the complete list of variants targeted by this analysis please contact our customer support team or log in your centoportall account.

For More Information
centogene.com

For Ordering
centoportall.com



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