



Lay the foundations
for a healthy and
happy family



VISTA™ Carrier Screening

- 1200+ Panel, 1200+ Diseases Detected in 1 Test

Helping parents to
detect genetic risks, provide reproductive guidance,
and prevent birth defects.



Specimen Requirement

2-5 mL peripheral blood



Turnaround Time

27 working days



Target Population

All couples who are planning a pregnancy or during early pregnancy, including those:

- With normal phenotypes and no family history of monogenic diseases.
- Who wants to have a healthy baby using assisted reproductive technology (ART).
- Who are close blood relatives.



Advantages

- Reasonable disease selection
- Large database of mutations following ACMG guidelines
- Extensive experience in genetic disease screening and research
- Complete lab qualifications and quality certifications
- Genetic counseling expert team and online search tools



Detection Time

- Before or during early pregnancy.
- In early pregnancy, it is recommended that both parents be detected.



Technology

Target area capture -
high-throughput sequencing technology

Characteristics

Rigorous: Inclusion of prenatal and early pregnancy diseases with clear pathogenic genes and severe and early onset diseases, following requirements of international guidelines.

Comprehensive: Detection of exon regions, splicing regions, some intron regions, promoter regions and UTR regions containing 1200+ target genes.

Accurate: Applying strict performance evaluation and quality control standards; pathogenicity of sites determined in strict accordance with ACMG guidelines.

Highly efficient: Screening of 1200+ autosomal recessive and X-linked single-gene diseases in 1 test, improving the comprehensive prevention and control of birth defects.

Testing Content

VISTA™ Carrier Screening screens for more than 1200 genes associated with 1200+ recessive monogenic diseases.

Classification	Diseases
Inherited Metabolic Disorders	Wilson Disease; Primary Carnitine Deficiency; Phenylketonuria; Hyperphenylalaninemia, BH4-deficient, A; MUT-Related Methylmalonic Acidemia; Methylmalonic Aciduria and Homocystinuria cblC type, 2,4-Dienoyl-CoA Reductase Deficiency, 2-Methylbutyryl Glycinuria, 3-beta-Hydroxysteroid Dehydrogenase Deficiency, etc.
Neuromuscular Skeletal Related Disorders	Duchenne Muscular Dystrophy; Spinal Muscular Atrophy; Joubert Syndrome 2; Joubert Syndrome 3, Ullrich congenital muscular dystrophy 1, Spinal muscular atrophy, X-linked 2, infantile, etc.
Cutaneous Disorders	Oculocutaneous Albinism Type 1; Autosomal Recessive Congenital Ichthyosis 1; Autosomal Recessive Congenital Ichthyosis 4A; Autosomal Recessive Congenital Ichthyosis 4B; Sjögren-Larsson syndrome, X-Linked Dyskeratosis Congenita, Epidermolytic hyperkeratosis, etc.
Circulatory System Disorders	Hemophilia B; Alpha-thalassemia; Beta-thalassemia; Sickle Cell Anemia, Methemoglobinemia Due to Deficiency of Methemoglobin Reductase, Thiamine-Responsive Megaloblastic Anemia Syndrome, etc.
Endocrine Issues and Autoimmune Disorders	Hemophagocytic lymphohistiocytosis, familial, Severe combined immunodeficiency, B cell-negative; X-Linked Severe Combined Immunodeficiency, Congenital Adrenal Hyperplasia due to 11-beta-Hydroxylase-Deficiency, DCLRE1C-Related Severe Combined Immunodeficiency, Common Variable Immune Deficiency 8 with Autoimmunity, etc.
Gastrointestinal and Urinary System Disorders	Progressive Familial Intrahepatic Cholestasis 2; Alport syndrome 2, autosomal recessive; Nephrotic syndrome, type 1, Polycystic Kidney Disease 4 with or without Polycystic Liver Disease, etc.
The Respiratory and Otorhinolaryngology System Disorders	Cystic Fibrosis; Autosomal Recessive Deafness 1A; Autosomal Recessive Deafness 4, with Enlarged Vestibular Aqueduct, Congenital Cataracts, Hearing Loss, And Neurodegeneration, etc.
Complex Multisystem Disorders	Meckel Syndrome 2, X-Linked Hypohidrotic Ectodermal Dysplasia; COACH syndrome, Fragile X Syndrome, etc.

www.bgi.com/global/
info@bgi.com



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Unless otherwise informed, certain sequencers and sequencing reagents are not available in selected countries or regions. Please contact a representative for regional availability. The company reserves the right of final interpretation.



@BGI Genomics