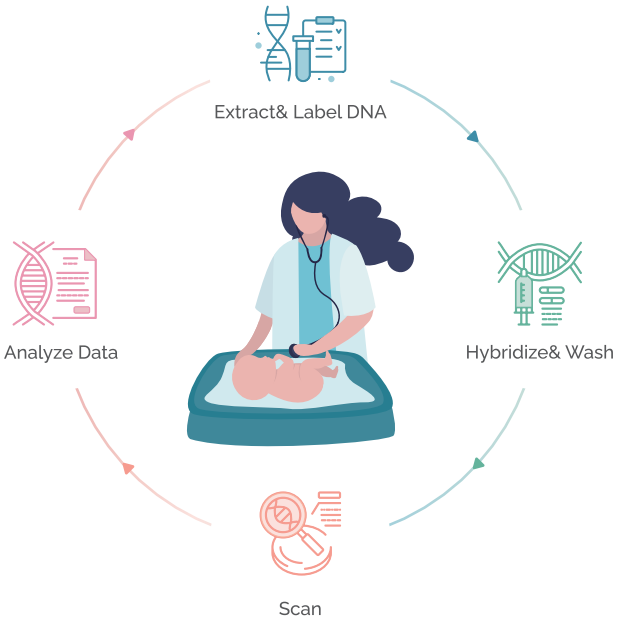
What is Newborn genetic screening, bebegene®?

By analyzing the whole genome through a SNP chromosomal microarray, bebegene® newborn genetic screening test accurately identifies early onset of many rare diseases that have characteristic symptoms such as mental retardation, developmental disorder, and autism. These problems can be actively responded to by early treatment through bebegene®. The purpose of bebegene® is to minimize and prevent the abnormal symptoms and complications that may occur to the child by detecting the developmental disorders, the behavioral disorders and the mental retardation before expression.



How is the bebegene® performed

Test period
after birth

Specimen
0.1ml of blood with EDTA
or 0.5ml of cord blood

Turnaround time
7-10 working days

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bebegene®

bebegene®

Newborn Screening:

An Essential Part of Your Baby's Healthcare

By analyzing the whole genome through a SNP chromosomal microarray, bebegene® can screen for many rare diseases.

bebegene®

Newborn Screening:

For healthier babies, beyond early detection

2-3 out of 100 children have autism spectrum disorder Disabilities such as visual and hearing impairments are often detected early before the age of 3, but autistic disorders and emotional behavior disorders that are not well visible are more likely to be diagnosed after age 3.

Chromosomal disorders can occur randomly in anyone as a result of an error during fertilization and cell division.
The risk for a baby to be born with a chromosome abnormality increases with the age of the mother.
Newborn genetic screening is the practice of testing every newborn for certain harmful or potentially fatal disorders that aren't otherwise apparent at birth.

About the test

750k Analysis of 750,000 SNPs at the same time

7 bebegene® Series - CNV & SNV related diseases

- Symtoms associated with genetic diseases
- Developmental disorders
  Autism, Intellectual disability
- Organ disorders
  Cardiac anamaly, Renal osteodystrophy, Immune deficiency, Dysgenitalism
- Physical disability
  Skull deformity, Muscular hypotonia, Growth delay, Visual impairment

Test options

- **bebegene® (Lite)**
  - ☑ deletions/duplications
- **bebegene® (Basic)**
  - ☑ deletions/duplications
  - ☑ AR metabolic disorder, Wilson's, hearing loss, CFTR related
- **bebegene® (Premium)**
  - ☑ deletions/duplications
  - ☑ AR metabolic disorder, Wilson's, hearing loss, CFTR related
  - ☑ 32- XLD and AD disorders eg Achondroplasia, Noonan syndrome, XL-Alport

Test Advantages

01 Safe and easy with small amounts of specimen collection

02 High resolution analysis for accurate detection

Developmental disorders

- Autism
- Sociality deficiency

Organ disorders

- Cardiac anomaly
- Renal osteodystrophy
- Immune deficiency
- Dysgenitalism

Physical disability

- Skull deformity
- Muscular hypotonia
- Growth delay
- Visual impairment

Test	After birth
Specimen	0.1ml of blood with EDTA or 0.5ml of cord blood
Test items	137 rare genetic diseases (Analysis of 750,000 SNPs)
Turnaround Time (TAT)	7-10 working days