

About this test

This test tells you if you're a carrier of a genetic disease.

Being a carrier means one of your genes has a change, and it doesn't work. Carriers of a disease are often healthy but can have a child with the disease.

Preparent Exon Global tests for the diseases listed on the back of this form.

- ▶ These diseases were chosen because they have harmful health effects.
- ▶ These effects often start at a young age and do not have a cure.
- ▶ Having a child with one of these diseases can happen to anyone, no matter your health, age, ethnicity, or family history.

Limitations

- ▶ Negative results do not guarantee a healthy pregnancy or baby. These tests look for specific changes to your genes. Changes not targeted by these tests will not be detected.
- ▶ False positive, false negative, and failed results are rare, but can happen.

Your privacy is protected

- ▶ We keep your results and information private. We only send results to the ordering provider, unless you give us permission to send elsewhere. You can contact us for a copy of your results.
- ▶ No other clinical test is performed or reported on a sample, unless ordered by a provider. We may contact a provider to obtain follow-up information. This is a normal lab practice and required in several states.
- ▶ Only anonymous samples and data are used for lab quality and data sharing programs. These are normal lab practices. We destroy samples received from New York State within 60 days after testing.

What test results mean



Positive (abnormal) results

mean that you are a carrier for one (or more) of the genetic diseases tested. Your risk to have a child with these diseases is **higher** than most other people. Follow-up testing may be recommended.



Negative (normal) results

mean that you are not a carrier for any of the gene changes tested. Your risk to have a child with these diseases is **lower** than most other people.

Benefits

- ▶ Finding out these results will help you understand your risk to have a baby affected with the diseases tested.
- ▶ Negative results are reassuring. Positive results let you and your provider determine the next steps for the identified risk(s).

Before signing this form, I had the chance to talk about this test with my healthcare provider or someone he/she chose, and genetic counseling has been recommended before and after testing. My questions have been answered and I have all of the information that I need to decide. I understand that this test is voluntary. I have decided that:

▶ Preparent[®] Carrier Test

- Yes, I want to receive the **Preparent[®] Carrier Test - Exon Global**
- No, I do not want to receive the **Preparent[®] Carrier Test - Exon Global**

PATIENT NAME (please print)

DATE OF BIRTH

PATIENT SIGNATURE

DATE

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Preparent Exon Global (280+ genes)

Disease / Gene	Disease / Gene	Disease / Gene
3-Beta-Hydroxysteroid Dehydrogenase Deficiency <i>HSD3B2</i>	Dyskeratosis Congenita <i>RTEL1</i>	Mucopolysaccharidosis, Type IIIC; Sanfilippo C <i>HGSNAT</i>
3-Hydroxy-3-Methylglutaryl-CoA Lyase Deficiency <i>HMGCL</i> [†]	Dystrophic Epidermolysis Bullosa <i>COL7A1</i>	Mucopolysaccharidosis, Type IIID <i>GNS</i>
3-Methylcrotonyl-CoA Carboxylase 1 Deficiency <i>MCCC1</i>	Ehlers-Danlos Syndrome <i>ADAMTS2</i>	Mucopolysaccharidosis, Type IX <i>HYAL1</i>
3-Methylcrotonyl-CoA Carboxylase 2 Deficiency <i>MCCC2</i>	Ellis-van Creveld Syndrome <i>EVC</i>	Mucopolysaccharidosis, Type VI; Maroteaux-Lamy <i>ARSB</i>
3-Methylglutaconic Aciduria <i>OPA3</i>	Emery-Dreifuss Muscular Dystrophy <i>EMD</i> [*]	Multiple Sulfatase Deficiency <i>SUMFT1</i>
3-Phosphoglycerate Dehydrogenase Deficiency <i>PHGDH</i> [†]	Enhanced S-Cone Syndrome <i>NR2E3</i>	Muscle-Eye-Brain Disease, POMGNT1-Related <i>POMGNT1</i>
6-Pyruvoyl-Tetrahydropterin Synthase Deficiency <i>PTS</i> [†]	Ethylmalonic Encephalopathy <i>ETHE1</i> [†]	Myoneurogastrointestinal Encephalopathy <i>TYMP</i>
Abetalipoproteinemia <i>MTTP</i> [†]	Fabry Disease <i>GLA</i> [*]	Myotubular Myopathy <i>MTM1</i> [*]
Achromatopsia <i>CNGB3</i>	Factor XI Deficiency <i>F11</i>	N-acetylglutamate Synthase Deficiency <i>NAGS</i>
Acrodermatitis Enteropathica <i>SLC39A4</i>	Familial Dysautonomia <i>ELP1</i> [†]	Nemaline Myopathy <i>NEB</i> [†]
Acute Infantile Liver Failure <i>TRMU</i>	Familial Hypercholesterolemia <i>LDLRAP1</i>	Nephrogenic Diabetes Insipidus <i>AQP2</i>
Acyl-CoA Oxidase I Deficiency <i>ACOX1</i>	Familial Hyperinsulinism <i>ABCC8</i> [†] , <i>KCNJ11</i>	Nephrotic Syndrome <i>NPHS1</i> [†] , <i>NPHS2</i> [†]
Adenosine Deaminase Deficiency <i>ADA</i> [†]	Familial Mediterranean Fever <i>MEFV</i>	Neuronal Ceroid Lipofuscinosis <i>CLN3</i> [†] , <i>CLN5</i> [†] , <i>CLN6</i> [†] , <i>CLN8</i> [†] , <i>MFSD8</i> , <i>PPT1</i> [†] , <i>TPP1</i> [†]
Adrenoleukodystrophy <i>ABCD1</i> ^{†*}	Fanconi Anemia <i>FANCA</i> , <i>FANCC</i> [†] , <i>FANCG</i>	Niemann-Pick Disease, Type A/B <i>SMPD1</i> [†]
Agammaglobulinemia <i>BTK</i> ^{†*}	Fragile X Syndrome <i>FMR1</i> ^{†*}	Niemann-Pick Disease, Type C/ID <i>NPC1</i> [†]
Aicardi-Goutières Syndrome <i>SAMHD1</i>	Fumarate Deficiency <i>FH</i> [†]	Niemann-Pick Disease, Type CI <i>NPC2</i>
Alpha-Mannosidosis <i>MAN2B1</i> [†]	Galactokinase Deficiency <i>GALK1</i>	Nijmegen Breakage Syndrome <i>NBN</i> [†]
Alpha-Thalassemia <i>HBA1</i> [†] , <i>HBA2</i> [†]	Galactosemia <i>GALT</i> [†]	Nonsyndromic Hearing Loss <i>GJB2</i> [†] , <i>LOXHD1</i>
Alpha-Thalassemia Intellectual Disability Syndrome <i>ATRX</i> [*]	Gaucher Disease <i>GBA</i> [†]	Occipital Horn Syndrome <i>ATP7A</i> [*]
Alport Syndrome <i>COL4A5</i> [*] , <i>COL4A3</i> [†] , <i>COL4A4</i>	Gitelman Syndrome <i>SLC12A3</i>	Odonto-Onycho-Dermal Dysplasia <i>WNT10A</i>
Alstrom Syndrome <i>ALMS1</i>	Glucose-6-Phosphate Dehydrogenase Deficiency <i>G6PD</i> ^{†*}	Omenn Syndrome <i>DCLRE1C</i> [†] , <i>RAG2</i>
Andermann Syndrome <i>SLC12A6</i> [†]	Glutaric Acidemia <i>GCDH</i> [†] , <i>ETFDH</i> , <i>ETFA</i>	Ornithine Aminotransferase Deficiency <i>OAT</i>
Argininosuccinate Aciduria <i>ASL</i> [†]	Glycine Encephalopathy <i>AMT</i> [†] , <i>GLDC</i> [†]	Ornithine Transcarbamylase Deficiency <i>OTC</i> [*]
Aromatase Deficiency <i>CYP19A1</i>	Glycogen Storage Disease, Type Ia <i>G6PC</i> [†]	Ornithine Translocase Deficiency/HHH syndrome <i>SLC25A15</i> [†]
Arthrogyposis, Mental Retardation, and Seizures <i>SLC35A3</i> [†]	Glycogen Storage Disease, Type Ib <i>SLC37A4</i> [†]	Osteopetrosis, Infantile Malignant <i>TCIRG1</i>
Asparagine Synthetase Deficiency <i>ASNS</i>	Glycogen Storage Disease, Type II <i>GAA</i> [†]	Pendred Syndrome <i>SLC26A4</i> [†]
Aspartylglycosaminuria <i>AGA</i> [†]	Glycogen Storage Disease, Type III <i>AGL</i> [†]	Phenylalanine Hydroxylase Deficiency <i>PAH</i> [†]
Ataxia with Vitamin E Deficiency <i>TTPA</i> [†]	Glycogen Storage Disease, Type IV <i>GBE1</i>	POLG-Related Disorders <i>POLG</i> [†]
Ataxia-Telangiectasia <i>ATM</i> [†]	Glycogen Storage Disease, Type V <i>PYGM</i>	Pontocerebellar Hypoplasia <i>RARS2</i> , <i>VRK1</i>
Autoimmune Polyglandular Syndrome <i>AIRE</i>	Glycogen Storage Disease, Type VII <i>PFKM</i>	Primary Ciliary Dyskinesia <i>DNAH5</i> , <i>DNAI1</i> , <i>DNAI2</i>
Autosomal Recessive Polycystic Kidney Disease <i>PKHD1</i> [†]	GM1 Gangliosidosis <i>GLB1</i> [†]	Primary Congenital Glaucoma <i>CYP1B1</i> [†]
Bardet-Biedl Syndrome <i>BBS1</i> [†] , <i>BBS2</i> [†] , <i>BBS10</i> [†] , <i>BBS12</i>	GRACILE Syndrome <i>BCSL1</i> [†]	Primary Hyperoxaluria <i>AGXT</i> [†] , <i>GRHPR</i> [†] , <i>HOGA1</i>
Bare Lymphocyte Syndrome <i>CITA</i>	Guandinoacetate Methyltransferase Deficiency <i>GAMT</i>	Progressive Cerebello-Cerebral Atrophy <i>SEPSECS</i>
Barter Syndrome <i>BSND</i>	Hemophilia B <i>F9</i> [*]	Progressive Familial Intrahepatic Cholestasis <i>ABCB11</i>
Beta-Hemoglobinopathies, including Sickle Cell Anemia <i>HBB</i> [†]	Hepatocerebral Mitochondrial DNA Depletion Syndrome <i>MPV17</i>	PROP1-Related Combined Pituitary Hormone Deficiency <i>PROP1</i> [†]
Beta-ketothiolase Deficiency <i>ACAT1</i>	Hereditary Fructose Intolerance <i>ALDOB</i> [†]	Propionic Acidemia <i>PCCA1</i> [†] , <i>PCCB</i> [†]
Bilateral Frontoparietal Polymicrogyria <i>ADGRG1</i>	Hereditary Hemochromatosis <i>HJV</i> [†] , <i>TFR2</i>	Pycnodysostosis <i>CTSK</i> [†]
Biotinidase Deficiency <i>BDT</i> [†]	Hereditary Spastic Paraparesis <i>TECPR2</i>	Pyruvate Dehydrogenase Deficiency <i>PDHA1</i> [†] , <i>PDHB</i>
Bloom Syndrome <i>BLM</i> [†]	Hermansky-Pudlak Syndrome <i>HPS3</i> [†] , <i>HPS1</i>	Renal Tubular Acidosis and Deafness <i>ATP6V1B1</i>
Canavan Disease <i>ASPA</i> [†]	Holocarboxylase Synthetase Deficiency <i>HLCS</i>	Retinitis Pigmentosa <i>CERKL</i> , <i>DHDDS</i> [†] , <i>EYS</i> , <i>FAM161A</i>
Carbamoyl Phosphate Synthetase I Deficiency <i>CPS1</i>	Homocystinuria <i>CBS</i> [†] , <i>MTRR</i>	Rhizomelic Chondrodysplasia Punctata <i>PEX7</i> [†] , <i>AGPS</i>
Carnitine Deficiency, Systemic Primary <i>SLC22A5</i> [†]	Hydrolethalus Syndrome <i>HYLS1</i>	Riboflavin Responsive Complex 1 Deficiency <i>ACAD9</i>
Carnitine Palmitoyltransferase I Deficiency <i>CPT1A</i> [†]	Hypohidrotic Ectodermal Dysplasia <i>EDA</i> [*]	Roberts Syndrome <i>ESCO2</i>
Carnitine Palmitoyltransferase II Deficiency <i>CPT2</i> [†]	Hypophosphatasia <i>ALPL</i> [†]	Salla Disease <i>SLC17A5</i> [†]
Carpenter Syndrome <i>RAB23</i>	Inclusion Body Myopathy <i>GNF</i> [†]	Sandhoff Disease <i>HEXB</i> [†]
Cartilage-Hair Hypoplasia <i>RMRP</i> [†]	Infantile Cerebral and Cerebellar Atrophy <i>MED17</i>	Sanhke Immunosseous Dysplasia <i>SMARCAL1</i>
Cerebrotendinous Xanthomatosis <i>CYP27A1</i> [†]	Infantile Neuroaxonal Dystrophy <i>PLA2G6</i> [†]	Severe Combined Immunodeficiency <i>IL2RG</i> ^{†*}
Charcot-Marie-Tooth Disease <i>GJB1</i> [†] , <i>NDRG1</i>	Isovaleric Acidemia <i>IVD</i> [†]	Sjögren-Larsson Syndrome <i>ALDH3A2</i> [†]
Cholesteryl Ester Storage Disease <i>LIPA</i>	Joubert Syndrome <i>TMEM216</i> [†]	SLC26A2-Related Skeletal Dysplasias <i>SLC26A2</i> [†]
Choreoacanthocytosis <i>VPS13A</i>	Junctional Epidermolysis Bullosa <i>LAMA3</i> [†] , <i>LAMB3</i> [†] , <i>LAMC2</i> [†]	Smith-Lemli-Opitz Syndrome <i>DHCR7</i> [†]
Choroideremia <i>CHM</i> [*]	Juvenile Nephronophthisis <i>NPHP1</i> [†]	Spastic Ataxia of Charlevoix-Saguenay <i>SACS</i> [†]
Chronic Granulomatous Disease <i>CYBB</i> ^{†*}	Juvenile Retinoschisis <i>RS1</i> [*]	Spinal Muscular Atrophy <i>SMN1</i> [†]
Chronic Granulomatous Disease, Cytochrome b-negative <i>CYBA</i>	Krabbe Disease <i>GALC</i> [†]	Spondylothoracic Dysostosis <i>MESP2</i>
Ciliopathies, RPGRIP1L-Related <i>RPGRIP1L</i>	Lamellar Ichthyosis <i>TGM1</i> [†]	Stuve-Wiedemann Syndrome <i>LIFR</i>
Citrin Deficiency <i>SLC25A13</i> [†]	Leber Congenital Amaurosis <i>CEP290</i> , <i>LCA5</i> , <i>RDH12</i> , <i>RPE65</i>	Tay-Sachs Disease <i>HEXA</i> [†]
Citrullinemia <i>ASS1</i> [†]	Leigh Syndrome, French-Canadian <i>LRRPRC</i> [†]	Tyrosine Hydroxylase Deficiency <i>TH</i> [†]
Cohen Syndrome <i>VPS13B</i>	Lethal Congenital Contracture Syndrome <i>GLE1</i>	Tyrosinemia <i>FAH</i> [†]
Combined Malonic and Methylmalonic Aciduria <i>ACSF3</i>	Leukoencephalopathy with Vanishing White Matter <i>EIF2B5</i> [†]	Usher Syndrome <i>CDH23</i> [†] , <i>CLRN1</i> [†] , <i>MYO7A</i> [†] , <i>PCDH15</i> [†] , <i>USH1C</i> [†] , <i>USH2A</i> [†]
Combined Oxidative Phosphorylation Deficiency <i>TSMF</i> , <i>GFM1</i>	Limb-Girdle Muscular Dystrophy <i>CAPN3</i> [†] , <i>DYSF</i> , <i>FKRP</i> , <i>SGCA</i> [†] , <i>SGCB</i> [†] , <i>SGCG</i> [†]	Very Long-Chain Acyl-CoA Dehydrogenase Deficiency <i>ACADVL</i> [†]
Combined Pituitary Hormone Deficiency 3 <i>LHX3</i>	Lipoprotein Lipase Deficiency <i>LPL</i>	Walker-Warburg Syndrome and Other FKTN-Related Diseases <i>FKTN</i> [†]
Congenital Adrenal Hyperplasia, 17-Alpha-Hydroxylase Deficiency <i>CYP17A1</i>	Long Chain 3-Hydroxyacyl-CoA Dehydrogenase Deficiency <i>HADHA</i> [†]	Wilson Disease <i>ATP7B</i> [†]
Congenital Amegakaryocytic Thrombocytopenia <i>MPL</i> [†]	Lowe Syndrome <i>OCLR</i> ^{†*}	Wiskott-Aldrich Syndrome <i>WAS</i> [*]
Congenital Disorder of Glycosylation, Type IA <i>PMM2</i> [†]	Lysinuric Protein Intolerance <i>SLC7A7</i> [†]	Zellweger Spectrum Disorders <i>PEX1</i> [†] , <i>PEX2</i> [†] , <i>PEX6</i> , <i>PEX10</i>
Congenital Disorder of Glycosylation, Type IB <i>MPI</i> [†]	Maple Syrup Urine Disease <i>BCKDHA</i> [†] , <i>BCKDHB</i> [†] , <i>DBT</i> [†]	
Congenital Disorder of Glycosylation, Type IC <i>ALG6</i>	Medium Chain Acyl-CoA Dehydrogenase Deficiency <i>ACADM</i> [†]	
Congenital Insensitivity to Pain with Anhidrosis <i>NTRK1</i>	Megalencephalic Leukoencephalopathy with Subcortical Cysts <i>MLC1</i> [†]	
Congenital Lipoid Adrenal Hyperplasia <i>STAR</i>	Metachromatic Leukodystrophy <i>ARSA</i> [†] , <i>PSAP</i>	
Congenital Myasthenic Syndrome <i>CHAT</i> [†] , <i>CHRNE</i> [†] , <i>DOK7</i> [†] , <i>RAPSN</i> [†]	Methylmalonic Aciduria <i>MUT</i> , <i>MMAA</i> , <i>MMAB</i> , <i>MMACHC</i> [†] , <i>MMADHC</i>	
Congenital Neutropenia <i>HAX1</i> [†] , <i>VPS45</i>	Microphthalmia/Anophthalmia <i>VSX2</i>	
Corneal Dystrophy and Perceptive Deafness Syndrome <i>SLC4A11</i>	Mitochondrial Complex 1 Deficiency <i>NDUFAF5</i> , <i>NDUFS6</i>	
Corticosterone Methyloxidase Deficiency <i>CYP11B2</i>	Mitochondrial Myopathy and Sideroblastic Anemia <i>PUS1</i>	
CRB1-Related Retinal Dystrophies <i>CRB1</i>	MKS1-Related Disorders <i>MKS1</i>	
Creatine Transporter Defect <i>SLC6A8</i> [*]	Mucopolidosis III gamma <i>GNPTG</i>	
Cystic Fibrosis <i>CFTR</i> [†]	Mucopolidosis, Type II/III Alpha/Beta <i>GNPTAB</i> [†]	
Cystinosis <i>CTNS</i> [†]	Mucopolidosis, Type IV <i>MCOLN1</i> [†]	
D-Bifunctional Protein Deficiency <i>HSD17B4</i> [†]	Mucopolysaccharidosis, Type I; Hurler Syndrome <i>IDUA</i> [†]	
Dihydropyrimidine Dehydrogenase Deficiency <i>DL2</i> [†]	Mucopolysaccharidosis, Type II; Hunter Syndrome <i>IDS</i> [*]	
Dihydropyrimidine Dehydrogenase Deficiency <i>DPYD</i> [†]	Mucopolysaccharidosis, Type IIIA; Sanfilippo A <i>SGSH</i> [†]	
Duchenne/Becker Muscular Dystrophy <i>DMD</i> ^{†*}	Mucopolysaccharidosis, Type IIIB; Sanfilippo B <i>NAGLU</i>	

* These genes cause X-linked disease and are not tested in males. The remaining genes cause autosomal recessive diseases.

† These genes are included on the Preparent Exon Carrier Test of 150+ genes. Genes without this indicator are unique to the Global 280+ gene test.