

preparent[®]
exon

CARRIER TEST



diseases tested

WHY TEST FOR THESE DISEASES?

- ◀ This test includes 280+ genes associated with hereditary diseases that can cause serious health problems, beginning in infancy or childhood.
- ◀ Children born with these diseases often benefit from early diagnosis and treatment.
- ◀ Most children born with a genetic disease have no affected family members.

DISEASES TESTED

Disease / Gene	
3-Beta-Hydroxysteroid Dehydrogenase Deficiency <i>HSD3B2</i>	Congenital Disorder of Glycosylation, Type IA <i>PMM2</i>
3-Hydroxy-3-Methylglutaryl-CoA Lyase Deficiency <i>HMGCL</i>	Congenital Disorder of Glycosylation, Type IB <i>MPI</i>
3-Methylcrotonyl-CoA Carboxylase 1 Deficiency <i>MCCC1</i>	Congenital Disorder of Glycosylation, Type IC <i>ALG6</i>
3-Methylcrotonyl-CoA Carboxylase 2 Deficiency <i>MCCC2</i>	Congenital Insensitivity to Pain with Anhidrosis <i>NTRK1</i>
3-Methylglutaconic Aciduria <i>OPA3</i>	Congenital Lipoid Adrenal Hyperplasia <i>STAR</i>
3-Phosphoglycerate Dehydrogenase Deficiency <i>PHGDH</i>	Congenital Myasthenic Syndrome <i>CHAT, CHRNE, DOK7, RAPSN</i>
6-Pyruvoyl-Tetrahydropterin Synthase Deficiency <i>PTS</i>	Congenital Neutropenia <i>HAX1, VPS45</i>
Abetalipoproteinemia <i>MTPP</i>	Corneal Dystrophy and Perceptive Deafness Syndrome <i>SLC4A11</i>
Achromatopsia <i>CNGB3</i>	Corticosterone Methyloxidase Deficiency <i>CYP11B2</i>
Acrodermatitis Enteropathica <i>SLC39A4</i>	CRB1-Related Retinal Dystrophies <i>CRB1</i>
Acute Infantile Liver Failure <i>TRMU</i>	Creatine Transporter Defect <i>SLC6A8</i>
Acyl-CoA Oxidase I Deficiency <i>ACOX1</i>	Cystic Fibrosis <i>CFTR</i>
Adenosine Deaminase Deficiency <i>ADA</i>	Cystinosis <i>CTNS</i>
Adrenoleukodystrophy <i>ABCD1</i>	D-Bifunctional Protein Deficiency <i>HSD17B4</i>
Agammaglobulinemia <i>BTK</i>	Dihydroliipoamide Dehydrogenase Deficiency <i>DLD</i>
Aicardi-Goutières Syndrome <i>SAMHD1</i>	Dihydropyrimidine Dehydrogenase Deficiency <i>DPYD</i>
Alpha-Mannosidosis <i>MAN2B1</i>	Duchenne/Becker Muscular Dystrophy <i>DMD</i>
Alpha-Thalassemia <i>HBA1, HBA2</i>	Dyskeratosis Congenita <i>RTEL1</i>
Alpha-Thalassemia Intellectual Disability Syndrome <i>ATRX</i>	Dystrophic Epidermolysis Bullosa <i>COL7A1</i>
Alport Syndrome <i>COL4A5, COL4A3, COL4A4</i>	Ehlers-Danlos Syndrome <i>ADAMTS2</i>
Alstrom Syndrome <i>ALMS1</i>	Ellis-van Creveld Syndrome <i>EVC</i>
Andermann Syndrome <i>SLC12A6</i>	Emery-Dreifuss Muscular Dystrophy <i>EMD</i>
Argininosuccinate Aciduria <i>ASL</i>	Enhanced S-Cone Syndrome <i>NR2E3</i>
Aromatase Deficiency <i>CYP19A1</i>	Ethylmalonic Encephalopathy <i>ETHE1</i>
Arthrogryposis, Mental Retardation, and Seizures <i>SLC35A3</i>	Fabry Disease <i>GLA</i>
Asparagine Synthetase Deficiency <i>ASNS</i>	Factor XI Deficiency <i>F11</i>
Aspartylglycosaminuria <i>AGA</i>	Familial Dysautonomia <i>ELP1</i>
Ataxia with Vitamin E Deficiency <i>TTPA</i>	Familial Hypercholesterolemia <i>LDLRAP1</i>
Ataxia-Telangiectasia <i>ATM</i>	Familial Hyperinsulinism <i>ABCC8, KCNJ11</i>
Autoimmune Polyglandular Syndrome <i>AIRE</i>	Familial Mediterranean Fever <i>MEFV</i>
Autosomal Recessive Polycystic Kidney Disease <i>PKHD1</i>	Fanconi Anemia <i>FANCA, FANCC, FANCG</i>
Bardet-Biedl Syndrome <i>BBS1, BBS2, BBS10, BBS12</i>	Fragile X Syndrome <i>FMR1</i>
Bare Lymphocyte Syndrome <i>CITA</i>	Fumarase Deficiency <i>FH</i>
Bartter Syndrome <i>BSND</i>	Galactokinase Deficiency <i>GALK1</i>
Beta-Hemoglobinopathies, including Sickle Cell Anemia <i>HBB</i>	Galactosemia <i>GALT</i>
Beta-ketothiolase Deficiency <i>ACAT1</i>	Gaucher Disease <i>GBA</i>
Bilateral Frontoparietal Polymicrogyria <i>ADGRG1</i>	Gitelman Syndrome <i>SLC12A3</i>
Biotinidase Deficiency <i>BDT</i>	Glucose-6-Phosphate Dehydrogenase Deficiency <i>G6PD</i>
Bloom Syndrome <i>BLM</i>	Glutaric Acidemia <i>GCDH, ETFDH, ETFA</i>
Canavan Disease <i>ASPA</i>	Glycine Encephalopathy <i>AMT, GLDC</i>
Carbamoyl Phosphate Synthetase I Deficiency <i>CPS1</i>	Glycogen Storage Disease, Type Ia <i>G6PC</i>
Carnitine Deficiency, Systemic Primary <i>SLC22A5</i>	Glycogen Storage Disease, Type Ib <i>SLC37A4</i>
Carnitine Palmitoyltransferase I Deficiency <i>CPT1A</i>	Glycogen Storage Disease, Type II <i>GAA</i>
Carnitine Palmitoyltransferase II Deficiency <i>CPT2</i>	Glycogen Storage Disease, Type III <i>AGL</i>
Carpenter Syndrome <i>RAB23</i>	Glycogen Storage Disease, Type IV <i>GBE1</i>
Cartilage-Hair Hypoplasia <i>RMRP</i>	Glycogen Storage Disease, Type V <i>PYGM</i>
Cerebrotendinous Xanthomatosis <i>CYP27A1</i>	Glycogen Storage Disease, Type VII <i>PFKM</i>
Charcot-Marie-Tooth Disease <i>GJB1, NDRG1</i>	GM1 Gangliosidosis <i>GLB1</i>
Cholesteryl Ester Storage Disease <i>LIPA</i>	GRACILE Syndrome <i>BCSL1</i>
Choreoacanthocytosis <i>VPS13A</i>	Guanidinoacetate Methyltransferase Deficiency <i>GAMT</i>
Choroideremia <i>CHM</i>	Hemophilia B <i>F9</i>
Chronic Granulomatous Disease <i>CYBB</i>	Hepatoencephalic Mitochondrial DNA Depletion Syndrome <i>MPV17</i>
Chronic Granulomatous Disease, Cytochrome b-negative <i>CYBA</i>	Hereditary Fructose Intolerance <i>ALDOB</i>
Ciliopathies, RPRGIP1L-Related <i>RPRGIP1L</i>	Hereditary Hemochromatosis <i>HJV, TFR2</i>
Citrin Deficiency <i>SLC25A13</i>	Hereditary Spastic Paraparesis <i>TECPRL</i>
Citrullinemia <i>ASS1</i>	Hermansky-Pudlak Syndrome <i>HPS3, HPS1</i>
Cohen Syndrome <i>VPS13B</i>	Holocarboxylase Synthetase Deficiency <i>HLCS</i>
Combined Malonic and Methylmalonic Aciduria <i>ACSF3</i>	Homocystinuria <i>CBS, MTRR</i>
Combined Oxidative Phosphorylation Deficiency <i>TSMF, GFM1</i>	Hydroletharus Syndrome <i>HYLS1</i>
Combined Pituitary Hormone Deficiency 3 <i>LHX3</i>	Hypohidrotic Ectodermal Dysplasia <i>EDA</i>
Congenital Adrenal Hyperplasia, 17-Alpha-Hydroxylase Deficiency <i>CYP17A1</i>	Hypophosphatasia <i>ALPL</i>
Congenital Amegakaryocytic Thrombocytopenia <i>MPL</i>	Inclusion Body Myopathy <i>GNE</i>

Disease / Gene	
Infantile Cerebral and Cerebellar Atrophy <i>MED17</i>	Pontocerebellar Hypoplasia <i>RARS2, VRK1</i>
Infantile Neuroaxonal Dystrophy <i>PLA2G6</i>	Primary Ciliary Dyskinesia <i>DNAH5, DNAI1, DNAI2</i>
Isovaleric Acidemia <i>IVD</i>	Primary Congenital Glaucoma <i>CYP11B1</i>
Joubert Syndrome <i>TMEM216</i>	Primary Hyperoxaluria <i>AGXT, GRHRP, HOGA1</i>
Junctional Epidermolysis Bullosa <i>LAMA3, LAMB3, LAMC2</i>	Progressive Cerebello-Cerebral Atrophy <i>SEPECS</i>
Juvenile Nephronophthisis <i>NPHP1</i>	Progressive Familial Intrahepatic Cholestasis <i>ABCB11</i>
Juvenile Retinoschisis <i>RS1</i>	PROP1-Related Combined Pituitary Hormone Deficiency <i>PROP1</i>
Krabbe Disease <i>GALC</i>	Propionic Acidemia <i>PCCA, PCCB</i>
Lamellar Ichthyosis <i>TGM1</i>	Pycnodysostosis <i>CTSK</i>
Leber Congenital Amaurosis <i>CEP290, LCA5, RDH12, RPE65</i>	Pyruvate Dehydrogenase Deficiency <i>PDHA1, PDHB</i>
Leigh Syndrome, French-Canadian <i>LRPPRC</i>	Renal Tubular Acidosis and Deafness <i>ATP6V1B1</i>
Lethal Congenital Contracture Syndrome <i>GLE1</i>	Retinitis Pigmentosa <i>CERKL, DHDDS, EYS, FAM1161A</i>
Leukoencephalopathy with Vanishing White Matter <i>EIF2B5</i>	Rhizomelic Chondrodysplasia Punctata <i>PEX7, AGPS</i>
Limb-Girdle Muscular Dystrophy <i>CAPN3, DYSF, FKRP, SGCA, SGCB, SGCG</i>	Riboflavin Responsive Complex 1 Deficiency <i>ACAD9</i>
Lipoprotein Lipase Deficiency <i>LPL</i>	Roberts Syndrome <i>ESCO2</i>
Long Chain 3-Hydroxyacyl-CoA Dehydrogenase Deficiency <i>HADHA</i>	Salla Disease <i>SLC17A5</i>
Lowe Syndrome <i>OCLR</i>	Sandhoff Disease <i>HEXB</i>
Lysinuric Protein Intolerance <i>SLC7A7</i>	Schimke Immunoosseous Dysplasia <i>SMARCAL1</i>
Maple Syrup Urine Disease <i>BCKDHA, BCKDHB, DBT</i>	Severe Combined Immunodeficiency <i>IL2RG</i>
Medium Chain Acyl-CoA Dehydrogenase Deficiency <i>ACADM</i>	Sjögren-Larsson Syndrome <i>ALDH3A2</i>
Megalencephalic Leukoencephalopathy with Subcortical Cysts <i>MLC1</i>	SLC26A2-Related Skeletal Dysplasias <i>SLC26A2</i>
Metachromatic Leukodystrophy <i>ARSA, PSAP</i>	Smith-Lemli-Opitz Syndrome <i>DHCR7</i>
Methylmalonic Aciduria <i>MUT, MMAA, MMAB, MMACHC, MMADHC</i>	Spastic Ataxia of Charlevoix-Saguenay <i>SACS</i>
Microphthalmia/Anophthalmia <i>VSX2</i>	Spinal Muscular Atrophy <i>SMN1</i>
Mitochondrial Complex 1 Deficiency <i>NDUFAF5, NDUFS6</i>	Spondylothoracic Dysostosis <i>MESP2</i>
Mitochondrial Myopathy and Sideroblastic Anemia <i>PUS1</i>	Stuve-Wiedemann Syndrome <i>LIFR</i>
MKS1-Related Disorders <i>MKS1</i>	Tay-Sachs Disease <i>HEXA</i>
Mucopolipidosis III gamma <i>GNPTG</i>	Tyrosine Hydroxylase Deficiency <i>TH</i>
Mucopolipidosis, Type II/III Alpha/Beta <i>GNPTAB</i>	Tyrosinemia <i>FAH</i>
Mucopolipidosis, Type IV <i>MCOLN1</i>	Usher Syndrome <i>CDH23, CLRN1, MYO7A, PCDH15, USH1C, USH2A</i>
Mucopolysaccharidosis, Type I; Hurler Syndrome <i>IDUA</i>	Very Long-Chain Acyl-CoA Dehydrogenase Deficiency <i>ACADVL</i>
Mucopolysaccharidosis, Type II; Hunter Syndrome <i>IDS</i>	Walker-Warburg Syndrome and Other <i>FKTN</i> -Related Diseases <i>FKTN</i>
Mucopolysaccharidosis, Type IIIA; Sanfilippo A <i>SGSH</i>	Wilson Disease <i>ATP7B</i>
Mucopolysaccharidosis, Type IIIB; Sanfilippo B <i>NAGLU</i>	Wiskott-Aldrich Syndrome <i>WAS</i>
Mucopolysaccharidosis, Type IIIC; Sanfilippo C <i>HGSNAT</i>	Zellweger Spectrum Disorders <i>PEX1, PEX2, PEX6, PEX10</i>
Mucopolysaccharidosis, Type IIID <i>GNS</i>	
Mucopolysaccharidosis, Type IX <i>HYAL1</i>	
Mucopolysaccharidosis, Type VI; Maroteaux-Lamy <i>ARSB</i>	
Multiple Sulfatase Deficiency <i>SUMF1</i>	
Muscle-Eye-Brain Disease, POMGNT1-Related <i>POMGNT1</i>	
Myoneurogastrointestinal Encephalopathy <i>TYMP</i>	
Myotubular Myopathy <i>MTM1</i>	
N-acetylglutamate Synthase Deficiency <i>NAGS</i>	
Nemaline Myopathy <i>NEB</i>	
Nephrogenic Diabetes Insipidus <i>AQP2</i>	
Nephrotic Syndrome <i>NPHS1, NPHS2</i>	
Neuronal Ceroid Lipofuscinosis <i>CLN3, CLN5, CLN6, CLN8, MFSD8, PPT1, TPP1</i>	
Niemann-Pick Disease, Type A/B <i>SMPD1</i>	
Niemann-Pick Disease, Type C I/D <i>NPC1</i>	
Niemann-Pick Disease, Type C II <i>NPC2</i>	
Nijmegen Breakage Syndrome <i>NBN</i>	
Nonsyndromic Hearing Loss <i>GJB2, LOXHD1</i>	
Occipital Horn Syndrome <i>ATP7A</i>	
Odonto-Onycho-Dermal Dysplasia <i>WNT10A</i>	
Omenn Syndrome <i>DCLRE1C, RAG2</i>	
Ornithine Aminotransferase Deficiency <i>OAT</i>	
Ornithine Transcarbamylase Deficiency <i>OTC</i>	
Ornithine Translocase Deficiency/HHH syndrome <i>SLC25A15</i>	
Osteopetrosis, Infantile Malignant <i>TCIRG1</i>	
Pendred Syndrome <i>SLC26A4</i>	
Phenylalanine Hydroxylase Deficiency <i>PAH</i>	
POLG-Related Disorders <i>POLG</i>	

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