

CentoMetabolic®

COMBINING GENETIC AND BIOCHEMICAL TESTING FOR THE FAST AND COMPREHENSIVE DIAGNOSTIC OF METABOLIC DISORDERS

GENE	ASSOCIATED DISEASE(S)
<i>ABCA1</i>	HDL deficiency, familial, 1; Tangier disease
<i>ABCB4</i>	Cholestasis, progressive familial intrahepatic 3
<i>ABCC2</i>	Dubin-Johnson syndrome
<i>ABCD1</i>	Adrenoleukodystrophy; Adrenomyeloneuropathy, adult
<i>ABCD4</i>	Methylmalonic aciduria and homocystinuria, cblJ type
<i>ABCG5</i>	Sitosterolemia 2
<i>ABCG8</i>	Sitosterolemia 1
<i>ACAT1</i>	Alpha-methylacetoacetic aciduria
<i>ADA</i>	Adenosine deaminase deficiency
<i>AGA</i>	Aspartylglucosaminuria
<i>AGL</i>	Glycogen storage disease IIIa; Glycogen storage disease IIIb
<i>AGPS</i>	Rhizomelic chondrodysplasia punctata, type 3
<i>AGXT</i>	Hyperoxaluria, primary, type 1
<i>ALAD</i>	Porphyria, acute hepatic
<i>ALAS2</i>	Anemia, sideroblastic, 1; Protoporphyrin, erythropoietic, X-linked
<i>ALDH4A1</i>	Hyperprolinemia, type II
<i>ALDOA</i>	Glycogen storage disease XII
<i>ALDOB</i>	Fructose intolerance, hereditary
<i>ALG3</i>	Congenital disorder of glycosylation, type Id
<i>ALPL</i>	Hypophosphatasia, adult; Hypophosphatasia, childhood; Hypophosphatasia, infantile; Odontohypophosphatasia
<i>ANTXR2</i>	Hyaline fibromatosis syndrome
<i>APOA2</i>	Hypercholesterolemia, familial, modifier of
<i>APOA5</i>	Hyperchylomicronemia, late-onset
<i>APOB</i>	Hypercholesterolemia, familial, 2
<i>APOC2</i>	Hyperlipoproteinemia, type Ib
<i>APOE</i>	Sea-blue histiocyte disease; Hyperlipoproteinemia, type III
<i>ARG1</i>	Argininemia
<i>ARSA</i>	Metachromatic leukodystrophy
<i>ARSB</i>	Mucopolysaccharidosis type VI (Maroteaux-Lamy)

GENE	ASSOCIATED DISEASE(S)
<i>ASAH1</i>	Farber lipogranulomatosis; Spinal muscular atrophy with progressive myoclonic epilepsy
<i>ASL</i>	Argininosuccinic aciduria
<i>ASS1</i>	Citrullinemia
<i>ATP7A</i>	Menkes disease; Occipital horn syndrome
<i>ATP7B</i>	Wilson disease
<i>BCKDHA</i>	Maple syrup urine disease, type Ia
<i>BCKDHB</i>	Maple syrup urine disease, type Ib
<i>BTD</i>	Biotinidase deficiency
<i>CBS</i>	Homocystinuria, B6-responsive and nonresponsive types
<i>CD320</i>	Methylmalonic aciduria, transient, due to transcobalamin receptor defect
<i>CETP</i>	Hyperalphalipoproteinemia
<i>CLN3</i>	Ceroid lipofuscinosis, neuronal, 3
<i>CLN5</i>	Ceroid lipofuscinosis, neuronal, 5
<i>CLN6</i>	Ceroid lipofuscinosis, neuronal, 6; Ceroid lipofuscinosis, neuronal, Kufs type, adult onset
<i>CLN8</i>	Ceroid lipofuscinosis, neuronal, 8; Ceroid lipofuscinosis, neuronal, 8, Northern epilepsy variant
<i>CPOX</i>	Coproporphyrinuria
<i>CPS1</i>	Carbamoylphosphate synthetase I deficiency
<i>CPT1A</i>	CPT deficiency, hepatic, type IA
<i>CTNS</i>	Cystinosis
<i>CTSA</i>	Galactosialidosis
<i>CTSD</i>	Ceroid lipofuscinosis, neuronal, 10
<i>CTSK</i>	Pycnodysostosis
<i>CYP11B1</i>	Congenital adrenal hyperplasia, congenital, due to 11-beta-hydroxylase deficiency
<i>CYP17A1</i>	Congenital adrenal hyperplasia, due to 17-alpha-hydroxylase deficiency
<i>CYP19A1</i>	Aromatase deficiency
<i>CYP21A2</i>	Congenital adrenal hyperplasia, due to 21-hydroxylase deficiency
<i>DBT</i>	Maple syrup urine disease, type II
<i>DDC</i>	Aromatic L-amino acid decarboxylase deficiency
<i>DHCR7</i>	Smith-Lemli-Opitz syndrome
<i>DIABLO</i>	Deafness, autosomal dominant 64
<i>DLX4</i>	Orofacial cleft 15
<i>DNAJC5</i>	Ceroid lipofuscinosis, neuronal, 4, Parry type
<i>DPYD</i>	Dihydropyrimidine dehydrogenase deficiency

GENE	ASSOCIATED DISEASE(S)
<i>ENO3</i>	Beta-enolase deficiency
<i>ENPP1</i>	Arterial calcification, generalized, of infancy, 1; Cole disease; Hypophosphatemic rickets, autosomal recessive, 2
<i>EPHX2</i>	Hypercholesterolemia, familial, due to LDLR defect, modifier of
<i>ETHE1</i>	Ethylmalonic encephalopathy
<i>FAH</i>	Tyrosinemia, type I
<i>FBP1</i>	Fructose-1,6-bisphosphatase deficiency
<i>FECH</i>	Protoporphyrin, erythropoietic, 1
<i>FGF23</i>	Hypophosphatemic rickets, autosomal dominant; Tumoral calcinosis, hyperphosphatemic, familial, 2
<i>FUCA1</i>	Fucosidosis
<i>G6PC</i>	Glycogen storage disease Ia
<i>G6PD</i>	Hemolytic anemia, G6PD deficient (favism)
<i>GAA</i>	Glycogen storage disease II
<i>GALC</i>	Krabbe disease
<i>GALE</i>	Galactose epimerase deficiency
<i>GALK1</i>	Galactokinase deficiency with cataracts
<i>GALNS</i>	Mucopolysaccharidosis IVA
<i>GALT</i>	Galactosemia
<i>GAMT</i>	Cerebral creatine deficiency syndrome 2
<i>GATM</i>	Cerebral creatine deficiency syndrome 3
<i>GBA</i>	Gaucher disease
<i>GBE1</i>	Glycogen storage disease IV; Polyglucosan body disease, adult form
<i>GHR</i>	Laron dwarfism; Hypercholesterolemia, familial, modifier of
<i>GK</i>	Glycerol kinase deficiency
<i>GLA</i>	Fabry disease
<i>GLB1</i>	GM1-gangliosidosis; Mucopolysaccharidosis type IVB (Morquio)
<i>GM2A</i>	GM2-gangliosidosis, AB variant
<i>GNPAT</i>	Rhizomelic chondrodysplasia punctata, type 2
<i>GNPTAB</i>	Mucopolysaccharidosis II alpha/beta; Mucopolysaccharidosis III alpha/beta
<i>GNPTG</i>	Mucopolysaccharidosis III gamma
<i>GNS</i>	Mucopolysaccharidosis type IIID
<i>GUSB</i>	Mucopolysaccharidosis VII
<i>GYG1</i>	Polyglucosan body myopathy 2
<i>GYS1</i>	Glycogen storage disease 0, muscle

GENE	ASSOCIATED DISEASE(S)
<i>GYS2</i>	Glycogen storage disease 0, liver
<i>HCFC1</i>	methylmalonic acidemia and homocysteinemia, cblX type
<i>HEXA</i>	Tay-Sachs disease; GM2-gangliosidosis
<i>HEXB</i>	Sandhoff disease
<i>HFE</i>	Hemochromatosis
<i>HGD</i>	Alkaptonuria
<i>HGSNAT</i>	Mucopolysaccharidosis type IIIC (Sanfilippo C)
<i>HJV</i>	Hemochromatosis, type 2A
<i>HLCS</i>	Holocarboxylase synthetase deficiency
<i>HMBS</i>	Porphyria, acute intermittent
<i>HPD</i>	Hawkinsinuria; Tyrosinemia, type III
<i>HPRT1</i>	Lesch-Nyhan syndrome
<i>HSD3B2</i>	Congenital adrenal hyperplasia, due to 3-beta-hydroxysteroid dehydrogenase 2 deficiency
<i>HYAL1</i>	Mucopolysaccharidosis type IX
<i>IDS</i>	Mucopolysaccharidosis II
<i>IDUA</i>	Mucopolysaccharidosis I
<i>ITIH4</i>	Hypercholesterolemia, susceptibility to
<i>IVD</i>	Isovaleric acidemia
<i>KHK</i>	Fructosuria
<i>LAMP2</i>	Danon disease
<i>LCAT</i>	Fish-eye disease; Norum disease
<i>LDHA</i>	Glycogen storage disease XI
<i>LDLR</i>	Hypercholesterolemia, familial, 1
<i>LDLRAP1</i>	Hypercholesterolemia, familial, 4
<i>LIPA</i>	Cholesteryl ester storage disease; Wolman disease
<i>LIPC</i>	Hepatic lipase deficiency
<i>LPI</i>	Hypertriglyceridemia, susceptibility to
<i>LMBRD1</i>	Methylmalonic aciduria and homocystinuria, cblF type
<i>LPA</i>	LPA deficiency, congenital
<i>LPL</i>	Lipoprotein lipase deficiency
<i>MAN2B1</i>	Mannosidosis, alpha-, types I and II
<i>MANBA</i>	Mannosidosis, beta
<i>MCOLN1</i>	Mucopolipidosis IV

GENE	ASSOCIATED DISEASE(S)
<i>MFSD8</i>	Ceroid lipofuscinosis, neuronal, 7; Macular dystrophy with central cone involvement
<i>MMAA</i>	Methylmalonic aciduria, vitamin B12-responsive
<i>MMAB</i>	Methylmalonic aciduria, vitamin B12-responsive, due to defect in synthesis of adenosylcobalamin, cbIB complementation type
<i>MMACHC</i>	Methylmalonic aciduria and homocystinuria, cbIC type
<i>MMADHC</i>	Homocystinuria, cbID type, variant 1; Methylmalonic aciduria and homocystinuria, cbID type; Methylmalonic aciduria, cbID type, variant 2
<i>MMUT</i>	Methylmalonic aciduria, mut(0) type
<i>NAGA</i>	Kanzaki disease; Schindler disease, type I; Schindler disease, type III
<i>NAGLU</i>	Mucopolysaccharidosis type IIIB (Sanfilippo B)
<i>NAGS</i>	N-acetylglutamate synthase deficiency
<i>NEU1</i>	Sialidosis, type I; Sialidosis, type II
<i>NPC1</i>	Niemann-Pick disease, type C1; Niemann-Pick disease, type D
<i>NPC2</i>	Niemann-pick disease, type C2
<i>OTC</i>	Ornithine transcarbamylase deficiency
<i>PAH</i>	Phenylketonuria
<i>PCSK9</i>	Hypercholesterolemia, familial, 3
<i>PDHB</i>	Pyruvate dehydrogenase E1-beta deficiency
<i>PEX1</i>	Heimler syndrome 1; Peroxisome biogenesis disorder 1A (Zellweger); Peroxisome biogenesis disorder 1B (NALD/IRD)
<i>PEX10</i>	Peroxisome biogenesis disorder 6A (Zellweger); Peroxisome biogenesis disorder 6B
<i>PEX12</i>	Peroxisome biogenesis disorder 3A (Zellweger); Peroxisome biogenesis disorder 3B
<i>PEX13</i>	Peroxisome biogenesis disorder 11A (Zellweger); Peroxisome biogenesis disorder 11B
<i>PEX14</i>	Peroxisome biogenesis disorder 13A (Zellweger)
<i>PEX16</i>	Peroxisome biogenesis disorder 8A (Zellweger); Peroxisome biogenesis disorder 8B
<i>PEX19</i>	Peroxisome biogenesis disorder 12A (Zellweger)
<i>PEX2</i>	Peroxisome biogenesis disorder 5A (Zellweger); Peroxisome biogenesis disorder 5B
<i>PEX26</i>	Peroxisome biogenesis disorder 7A (Zellweger); Peroxisome biogenesis disorder 7B
<i>PEX3</i>	Peroxisome biogenesis disorder 10A (Zellweger)
<i>PEX5</i>	Peroxisome biogenesis disorder 2A (Zellweger); Peroxisome biogenesis disorder 2B; Rhizomelic chondrodysplasia punctata, type 5
<i>PEX6</i>	Heimler syndrome 2; Peroxisome biogenesis disorder 4A (Zellweger); Peroxisome biogenesis disorder 4B
<i>PEX7</i>	Peroxisome biogenesis disorder 9B; Rhizomelic chondrodysplasia punctata, type 1
<i>PFKM</i>	Glycogen storage disease VII
<i>PGAM2</i>	Glycogen storage disease X

GENE	ASSOCIATED DISEASE(S)
<i>PGK1</i>	Phosphoglycerate kinase 1 deficiency
<i>PGM1</i>	Congenital disorder of glycosylation, type It
<i>PHKA1</i>	Muscle glycogenosis
<i>PHKA2</i>	Glycogen storage disease, type IXa1; Glycogen storage disease, type IXa2
<i>PHKB</i>	Glycogen storage disease type IX (Phosphorylase kinase deficiency of liver and muscle)
<i>PHKG2</i>	Glycogen storage disease IXc
<i>PKLR</i>	Pyruvate kinase deficiency
<i>PNPO</i>	Pyridoxamine 5'-phosphate oxidase deficiency
<i>POR</i>	Antley-Bixler syndrome with genital anomalies and disordered steroidogenesis; Disordered steroidogenesis due to cytochrome P450 oxidoreductase
<i>PPOX</i>	Porphyria variegata
<i>PPP1R17</i>	Hypercholesterolemia, susceptibility to
<i>PPT1</i>	Ceroid lipofuscinosis, neuronal, 1
<i>PRKAG2</i>	Glycogen storage disease type IX (Cardiac muscle phosphorylase kinase deficiency)
<i>PSAP</i>	Combined SAP deficiency; Gaucher disease, atypical; Krabbe disease, atypical; Metachromatic leukodystrophy due to SAP-b deficiency
<i>PYGL</i>	Glycogen storage disease VI
<i>PYGM</i>	McArdle disease
<i>RBCK1</i>	Polyglucosan body myopathy 1 with or without immunodeficiency
<i>SGSH</i>	Mucopolysaccharidosis type IIIA (Sanfilippo A)
<i>SI</i>	Sucrase-isomaltase deficiency, congenital
<i>SLC17A5</i>	Salla disease; Sialic acid storage disorder, infantile
<i>SLC22A5</i>	Carnitine deficiency, systemic primary
<i>SLC25A13</i>	Citrullinemia type II
<i>SLC25A15</i>	Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome
<i>SLC25A20</i>	Carnitine-acylcarnitine translocase deficiency
<i>SLC25A36</i>	Pyrimidine Nucleotide Carrier 2
<i>SLC2A1</i>	Glucose transporter 1 deficiency
<i>SLC2A2</i>	Fanconi-Bickel syndrome
<i>SLC2A3</i>	Glucose transporter 3; GLUT3 Deficiency
<i>SLC37A4</i>	Glycogen storage disease Ib; Glycogen storage disease Ic
<i>SLC3A1</i>	Cystinuria
<i>SLC3A2</i>	Solute Carrier Family 3 (Activator of dibasic and neutral amino acid transport), Member 2
<i>SLC40A1</i>	Hemochromatosis, type 4
<i>SLC6A19</i>	Hartnup disorder

GENE	ASSOCIATED DISEASE(S)
<i>SLC6A8</i>	Cerebral creatine deficiency syndrome 1
<i>SLC7A7</i>	Lysinuric protein intolerance
<i>SLC7A9</i>	Cystinuria
<i>SLCO1B1</i>	Hyperbilirubinemia, Rotor type, digenic
<i>SLCO1B3</i>	Hyperbilirubinemia, Rotor type, digenic
<i>SMPD1</i>	Niemann-Pick disease, type A; Niemann-Pick disease, type B
<i>SUMF1</i>	Multiple sulfatase deficiency
<i>TAT</i>	Tyrosinemia, type II
<i>TFR2</i>	Hemochromatosis, type 3
<i>TPP1</i>	Ceroid lipofuscinosis, neuronal, 2; Spinocerebellar ataxia, autosomal recessive 7
<i>UGT1A1</i>	Crigler-Najjar syndrome, type I; Crigler-Najjar syndrome, type II; Hyperbilirubinemia, familial transient neonatal
<i>UMPS</i>	Orotic aciduria
<i>UROD</i>	Porphyria cutanea tarda
<i>UROS</i>	Porphyria, congenital erythropoietic

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