



Newborn Genetic Screening Jaundice Panel

Detects pathogenic or likely pathogenic variants in 82 genes associated with single gene disorders presenting with a jaundice phenotype

Disorders	Genes	Inheritance
Cholestasis, benign recurrent intrahepatic, 2	ABCB11	AR
Cholestasis, progressive familial intrahepatic 2		AR
Cholestasis, progressive familial intrahepatic 3	ABCB4	AR
Cholestasis, intrahepatic, of pregnancy, 3		AD/AR
Gallbladder disease 1	ABCD1	AD/AR
Adrenoleukodystrophy		XLR
Adrenomyeloneuropathy, adult	ABCG5	XLR
Sitosterolemia 2		AR
Sitosterolemia 1	ABCG8	AR
Severe combined immunodeficiency due to ADA deficiency	ADA	AR/SMo
Adenosine deaminase deficiency, partial		AR/SMo
Bile acid synthesis defect, congenital, 2	AKR1D1	AR
Fructose intolerance, hereditary	ALDOB	AR
Spherocytosis, type 1	ANK1	AD/AR
Hypercholesterolemia, familial, 2	APOB	AD
Hypobetalipoproteinemia		AR
Argininemia	ARG1	AR
Argininosuccinic aciduria	ASL	AR
Citrullinemia	ASS1	AR
Wilson disease	ATP7B	AR
Cholestasis, progressive familial intrahepatic 1	ATP8B1	AR
Cholestasis, benign recurrent intrahepatic		AR
Cholestasis, intrahepatic, of pregnancy, 1	CFTR	AD
Cystic fibrosis		AR
{Bronchiectasis with or without elevated sweat chloride 1, modifier of}	COPA	AD
{Autoinflammation and autoimmunity, systemic, with immune dysregulation 1}		AD
CPT II deficiency, lethal neonatal	CPT2	AR
CPT II deficiency, infantile		AR
CPT II deficiency, myopathic, stress-induced	CYP27A1	AD/AR
Cerebrotendinous xanthomatosis		AR
Sclerosing cholangitis, neonatal	DCDC2	AR
Nephronophthisis 19		AR
Deafness, autosomal recessive 66		AR

Disorders	Genes	Inheritance
Thyroid dysmorphogenesis 6	DUOX2	AR
Elliptocytosis-1	EPB41	AD/AR
Spherocytosis, type 5	EPB42	.
Glutaric acidemia IIA	ETFA	AR
Glutaric acidemia IIB	ETFB	AR
Glutaric acidemia IIC	ETFDH	AR
Tyrosinemia, type I	FAH	AR
Anemia, congenital, nonspherocytic hemolytic, 1, G6PD deficient	G6PD	XL
Galactose epimerase deficiency	GALE	AR
Galactosemia IV	GALM	AR
Galactosemia	GALT	AR
Gaucher disease, type I	GBA1	AR
Gaucher disease, type II		AR
Gaucher disease, type III		AR
Gaucher disease, type IIIC		AR
Gaucher disease, perinatal lethal		AR
Mitochondrial trifunctional protein deficiency 1	HADHA	AR
LCHAD deficiency		AR
HELLP syndrome, maternal, of pregnancy		AR
Fatty liver, acute, of pregnancy	HADHB	AR
Mitochondrial trifunctional protein deficiency 2		AR
Thalassemias, alpha-	HBA1	.
Hemoglobin H disease, nondeletional		.
Heinz body anemias, alpha-		AD
Methemoglobinemia, alpha type		AD
Erythrocytosis, familial, 7	HBA2	AD
Thalassemia, alpha-		.
Hemoglobin H disease, deletional and nondeletional		.
Heinz body anemia		AD
Erythrocytosis, familial, 7	HFE	AD
Hemochromatosis, type 1		AR
D-bifunctional protein deficiency	HSD17B4	AR
Perrault syndrome 1		AR
Inflammatory bowel disease 25, early onset, autosomal recessive	IL10RB	AR
Nephronophthisis 2, infantile	INVS	AR
Alagille syndrome 1	JAG1	AD
Tetralogy of Fallot		AD
Charcot-Marie-Tooth disease, axonal, type 2HH	LIPA	AD
Wolman disease		AR
Cholesteryl ester storage disease	LYST	AR
Chediak-Higashi syndrome		AR
Methylmalonic aciduria and homocystinuria, cblC type	MMACHC	AR

Disorders	Genes	Inheritance
Mitochondrial DNA depletion syndrome 6 (hepatocerebral type)	MPV17	AR
Charcot-Marie-Tooth disease, axonal, type 2EE		AR
Homocystinuria-megaloblastic anemia, cblG complementation type	MTR	AR
Mevalonic aciduria	MVK	AR
Porokeratosis 3, multiple types		AD
Hyper-IgD syndrome		AR
Hypothyroidism, congenital nongoitrous, 5	NKX2-5	AD
Conotruncal heart malformations, variable		--
Tetralogy of Fallot		AD
Atrial septal defect 7, with or without AV conduction defects		AD
Ventricular septal defect 3		AD
Hypoplastic left heart syndrome 2		AD
Alagille syndrome 2	NOTCH2	AD
Hajdu-Cheney syndrome	NPC1	AD
Niemann-Pick disease, type C1		AR
Niemann-Pick disease, type D		AR
Niemann-Pick disease, type C2	NPC2	AR
Meckel syndrome 7	NPHP3	AR
Nephronophthisis 3		AR
Renal-hepatic-pancreatic dysplasia 1	OCA2	AR
Albinism, oculocutaneous, type II		AR
Albinism, brown oculocutaneous	OTC	XL
Ornithine transcarbamylase deficiency	PAX8	AD
Hypothyroidism, congenital, due to thyroid dysgenesis or hypoplasia	PEX1	AR
Peroxisome biogenesis disorder 1A (Zellweger)		AR
Peroxisome biogenesis disorder 1B (NALD/IRD)		AR
Heimler syndrome 1	PIGA	AR
Neurodevelopmental disorder with epilepsy and hemochromatosis		XLR
Multiple congenital anomalies-hypotonia-seizures syndrome 2	PKD2	XLR
Polycystic kidney disease 2	PKHD1	AD
Polycystic kidney disease 4, with or without hepatic disease		AR
Anemia, congenital, nonspherocytic hemolytic, 2, pyruvate kinase deficient	PKLR	AR
[Adenosine triphosphate, elevated, of erythrocytes]		AD
Hemophagocytic lymphohistiocytosis, familial, 2	PRF1	AR
Lymphoma, non-Hodgkin		.
Aplastic anemia		.
Pituitary hormone deficiency, combined, 2	PROP1	AR
Griscelli syndrome, type 2	RAB27A	AR

Disorders	Genes	Inheritance
Carnitine deficiency, systemic primary	SLC22A5	AR
Citrullinemia, adult-onset type II	SLC25A13	AR
Citrullinemia, type II, neonatal-onset		AR
Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome	SLC25A15	AR
Carnitine-acylcarnitine translocase deficiency	SLC25A20	AR
Pendred syndrome	SLC26A4	AR
Deafness, autosomal recessive 4, with enlarged vestibular aqueduct		AR
Glycogen storage disease Ib	SLC37A4	AR
Glycogen storage disease Ic		AR
Congenital disorder of glycosylation, type IIw		AD
Spherocytosis, type 4	SLC4A1	AD
Ovalocytosis, SA type		AD
Cryohydrocytosis		AD
Distal renal tubular acidosis 1		AD
Distal renal tubular acidosis 4 with hemolytic anemia		AR
Thyroid dysmorphogenesis 1	SLC5A5	AR
Niemann-Pick disease, type A	SMPD1	AR
Niemann-Pick disease, type B		AR
Spherocytosis, type 3	SPTA1	AR
Elliptocytosis-2		AD
Pyropoikilocytosis	SPTB	AR
Spherocytosis, type 2		AD
Elliptocytosis-3		AD/AR
Anemia, neonatal hemolytic, fatal or near-fatal	STXBP2	AD/AR
Hemophagocytic lymphohistiocytosis, familial, 5, with or without microvillus inclusion disease		AR
Thyroid dysmorphogenesis 3	TG	AR
Cholestasis, progressive familial intrahepatic 4	TJP2	AR
Hypercholanemia, familial 1		AR
Thyroid dysmorphogenesis 2A	TPO	AR
Hypothyroidism, congenital, nongoitrous 4	TSHB	AR
Hypothyroidism, congenital, nongoitrous, 1	TSHR	AR
Hyperthyroidism, nonautoimmune		AD
Hyperthyroidism, familial gestational		AD
Crigler-Najjar syndrome, type I	UGT1A1	AR
Crigler-Najjar syndrome, type II		AR
Hyperbilirubinemia, familial transient neonatal		AD/AR

Note: AD: Autosomal dominant; AR: Autosomal recessive; XL: X-linked; XLR: X-linked recessive; SMO: Somatic mosaicism

Conditions surrounded by brackets '{ }' indicate mutations that contribute to susceptibility to multifactorial disorders or to infection.
Conditions surrounded by brackets '[]' indicate nondiseases that mainly genetic variations that lead to apparently abnormal laboratory test values.

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