

Seznam vyšetřovaných genů/onemocnění  
CLG Carrier Screen panel, design v3, verze 3.1

Fenotyp	Fenotyp MIM kód	Dědičnost	Gen	Gen MIM kód
Acyl-CoA dehydrogenase, medium chain, deficiency	201450	AR	ACADM	607008
Acyl-CoA dehydrogenase, short-chain, deficiency	201470	AR	ACADS	606885
Acyl-CoA dehydrogenase, very long-chain, deficiency	201475	AR	ACADVL	609575
Usher syndrome, type 2C	605472	AR, DD	ADGRV1	602851
Glycogen storage disease III	232400	AR	AGL	610860
Fructose intolerance, hereditary	229600	AR	ALDOB	612724
Hypophosphatasia	146300	AD, AR	ALPL	171760
Androgen insensitivity	300068	XLR	AR	313700
Argininemia	207800	AR	ARG1	608313
Metachromatic leukodystrophy	250100	AR	ARSA	607574
Argininosuccinic aciduria	207900	AR	ASL	608310
Canavan disease	271900	AR	ASPA	608034
Citrullinemia	215700	AR	ASS1	603470
Ataxia-telangiectasia	208900	AR	ATM	607585
Wilson disease	277900	AR	ATP7B	606882
Maple syrup urine disease, type Ia	248600	AR	BCKDHA	608348
Maple syrup urine disease, type Ib	248600	AR	BCKDHB	248611
Homocystinuria due to cystathionine beta-synthase deficiency	236200	AR	CBS	613381
Usher syndrome, type 1	601067	AR, DR	CDH23	605516
Cystic fibrosis	219700	AR	CFTR	602421
Congenital bilateral absence of vas deferens	277180	AR	CFTR	602421
Ceroid lipofuscinosis, neuronal, 3	204200	AR	CLN3	607042
Achromatopsia 3	262300	AR	CNGB3	605080
Alport syndrome 1	301050	XLD	COL4A5	303630
Carnitine Palmitoyltransferase I Deficiency, hepatic, type IA	255120	AR	CPT1A	600528
Carnitine Palmitoyltransferase II Deficiency, lethal neonatal	608836	AR	CPT2	600650
Carnitine Palmitoyltransferase II Deficiency, infantile	600649	AR	CPT2	600650
Cystinosis, nephropathic	219800	AR	CTNS	606272
Cystinosis, late-onset juvenile or adolescent nephropathic	219900	AR	CTNS	606272
Adrenal hyperplasia, congenital, due to 17-Alpha-hydroxylase Deficiency	202110	AR	CYP17A1	609300
Maple syrup urine disease, type II	248600	AR	DBT	248610
Smith-Lemli-Opitz syndrome	270400	AR	DHCR7	602858
Prothrombin (G20210A)		AD	F2	176930
Factor V (G1691A)		AD	F5	612309
Tyrosinemia, type I	276700	AR	FAH	613871
FSHR c.2039G>A (p.Ser680Asn)		AD	FSHR	136435
Glycogen storage disease Ia	232200	AR	G6PC1	613742
Glycogen storage disease II	232300	AR	GAA	606800
Galactosemia	230400	AR	GALT	606999
Gaucher disease, type I	230800	AR	GBA	606463
Gaucher disease, type II	230900	AR	GBA	606463
Gaucher disease, type III	231000	AR	GBA	606463
Gaucher disease, type IIIC	231005	AR	GBA	606463
Glutaric acidemia	231670	AR	GCDH	608801
Deafness, autosomal recessive 1A	220290	AR, DD	GJB2	121011
Fabry disease	301500	XL	GLA	300644
GM1-gangliosidosis, type I	230500	AR	GLB1	611458
GM1-gangliosidosis, type II	230600	AR	GLB1	611458

GM1-gangliosidosis, type III	230650	AR	<i>GLBI</i>	611458
Glycine encephalopathy 1	605899	AR	<i>GLDC</i>	238300
Mucopolidosis II alpha/beta	252500	AR	<i>GNPTAB</i>	607840
Mucopolidosis III alpha/beta	252600	AR	<i>GNPTAB</i>	607840
Long-chain 3-hydroxyacyl-CoA Dehydrogenase Deficiency	609016	AR	<i>HADHA</i>	600890
Mitochondrial trifunctional protein deficiency 1	609015	AR	<i>HADHA</i>	600890
Thalassemia, beta	613985	AR	<i>HBB</i>	141900
Sickle cell anemia	603903	AR	<i>HBB</i>	141900
Tay-Sachs disease	272800	AR	<i>HEXA</i>	606869
Myasthenic syndrome, congenital, 4A, slow-channel	605809	AD, AR	<i>CHRNE</i>	100725
Myasthenic syndrome, congenital, 4B, fast-channel	616324	AR	<i>CHRNE</i>	100725
Myasthenic syndrome, congenital, 4C, associated with acetylcholine receptor deficiency	608931	AR	<i>CHRNE</i>	100725
Mucopolysaccharidosis I	607014/15/16	AR	<i>IDUA</i>	252800
Severe combined immunodeficiency, X-linked	300400	XLR	<i>IL2RG</i>	308380
Isovaleric acidemia	243500	AR	<i>IVD</i>	607036
3-Methylcrotonyl-CoA carboxylase 1 deficiency	210200	AR	<i>MCCC1</i>	609010
3-Methylcrotonyl-CoA carboxylase 2 deficiency	210210	AR	<i>MCCC2</i>	609014
Familial Mediterranean fever	249100, 134610	AR, AD	<i>MEFV</i>	608107
Myopathy, centronuclear, X-linked	310400	XLR	<i>MTM1</i>	300415
Usher syndrome, type 1B	276900	AR	<i>MYO7A</i>	276903
Deafness, autosomal recessive 2	600060	AR	<i>MYO7A</i>	276903
Nijmegen breakage syndrome	251260	AR	<i>NBN</i>	602667
Niemann-Pick disease, type C1, D	257220	AR	<i>NPC1</i>	607623
Niemann-pick disease, type C2	607625	AR	<i>NPC2</i>	601015
Optic atrophy 1	165500	AD	<i>OPA1</i>	605290
Ornithine transcarbamylase deficiency	311250	XL	<i>OTC</i>	300461
Phenylketonuria	261600	AR	<i>PAH</i>	612349
Usher syndrome, type 1	601067	AR, DR	<i>PCDH15</i>	605514
Peroxisome biogenesis disorder 1A (Zellweger)	214100	AR	<i>PEX1</i>	602136
Peroxisome biogenesis disorder 6A (Zellweger)	614870	AR	<i>PEX10</i>	602859
Peroxisome biogenesis disorder 3A (Zellweger)	614859	AR	<i>PEX12</i>	601758
Peroxisome biogenesis disorder 11A (Zellweger)	614883	AR	<i>PEX13</i>	601789
Peroxisome biogenesis disorder 13A (Zellweger)	614887	AR	<i>PEX14</i>	601791
Peroxisome biogenesis disorder 8A (Zellweger)	614876	AR	<i>PEX16</i>	603360
Peroxisome biogenesis disorder 5A (Zellweger)	614866	AR	<i>PEX2</i>	170993
Peroxisome biogenesis disorder 9B	614879	AR	<i>PEX7</i>	601757
Polycystic kidney disease 1	173900	AD	<i>PKD1</i>	601313
Polycystic kidney disease 2	613095	AD	<i>PKD2</i>	173910
Polycystic kidney disease 4, with or without hepatic disease	263200	AR	<i>PKHD1</i>	606702
Congenital disorder of glycosylation, type Ia	212065	AR	<i>PMM2</i>	601785
Disordered steroidogenesis due to cytochrome P450 oxidoreductase	613571	AR	<i>POR</i>	124015
Myasthenic syndrome, congenital, 11, associated with acetylcholine receptor deficiency	616326	AR	<i>RAPSN</i>	601592
Alpha-1-antitrypsin deficiency	613490	AR	<i>SERPINA1</i>	107400
Mucopolysaccharidosis type IIIA	252900	AR	<i>SGSH</i>	605270
Carnitine deficiency	212140	AR	<i>SLC22A5</i>	603377
Carnitine-acylcarnitine translocase deficiency	212138	AR	<i>SLC25A20</i>	613698
Deafness, autosomal recessive 4, with enlarged vestibular aqueduct	600791	AR	<i>SLC26A4</i>	605646
Pendred syndrome	274600	AR	<i>SLC26A4</i>	605646
Spinal muscular atrophy-1	253300	AR	<i>SMN1</i>	600354
Spinal muscular atrophy, type III, modifier	253400	AR	<i>SMN2</i>	601627
Niemann-Pick disease, type A	257200	AR	<i>SMPD1</i>	607608
Niemann-Pick disease, type B	607616	AR	<i>SMPD1</i>	607608

Ichthyosis, congenital, autosomal recessive 1	242300	AR	<i>TGMI</i>	190195
Spinocerebellar ataxia, autosomal recessive 7	609270	AR	<i>TPP1</i>	607998
Ceroid lipofuscinosis, neuronal, 2	204500	AR	<i>TPP1</i>	607998
Usher syndrome, type 1C	276904	AR	<i>USH1C</i>	605242
Usher syndrome, type 2A	276901	AR	<i>USH2A</i>	608400
Retinitis pigmentosa 39	613809	AR	<i>USH2A</i>	608400

Vysvětlivky: **AR**-autozomálně recesivní; **AD**-autozomálně dominantní; **DD**-digenní dominantní; **DR**-digenní recesivní; **XL**-X vázané; **XLR**-X vázané recesivní; **XLD**-vázané dominantní