

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
CYP17A1	10q24.32	17,20-lyase deficiency, isolated	202110	●
CYP17A1	10q24.32	17-alpha-hydroxylase/17,20-lyase deficiency	202110	●
HSD17B10	Xp11.22	17-beta-hydroxysteroid dehydrogenase X deficiency	300438	●
HSD3B2	1p12	3-beta-hydroxysteroid dehydrogenase, type II, deficiency	201810	●
HADH	4q25	3-hydroxyacyl-CoA dehydrogenase deficiency	231530	●
HIBCH	2q32.2	3-hydroxyisobutryl-CoA hydrolase deficiency	250620	●
HIBCH	2q32.2	3-hydroxyisobutryl-CoA hydrolase deficiency	250620	●
AUH	9q22.31	3-methylglutaconic aciduria, type I	250950	●
DNAJC19	3q26.33	3-methylglutaconic aciduria, type V	610198	●
NR5A1	9q33.3	46XY sex reversal 3	612965	●
FGD1	Xp11.22	Aarskog-Scott syndrome	305400	●
EDNRB	13q22.3	ABCD syndrome	600501	●
AAAS	12q13.13	Achalasia-addisonianism-alacrimia syndrome	231550	●
SLC26A2	5q32	Achondrogenesis Ib	600972	●
ACADM	1p31.1	Acyl-CoA dehydrogenase, medium chain, deficiency of	201450	●
ADA	20q13.12	Adenosine deaminase deficiency, partial	102700	●
PKLR	1q22	Adenosine triphosphate, elevated, of erythrocytes	102900	●
CYP11B1	8q24.3	Adrenal hyperplasia, congenital, due to 11-beta-hydroxylase deficiency	202010	●
CYP21A2	6p21.33	Adrenal hyperplasia, congenital, due to 21-hydroxylase deficiency	201910	●
CYP11A1	15q24.1	Adrenal insufficiency, congenital, with 46XY sex reversal, partial or complete	613743	●
NR5A1	9q33.3	Adrenocortical insufficiency		●
ABCD1	Xq28	Adrenoleukodystrophy	300100	●
ABCD1	Xq28	Adrenomyeloneuropathy, adult	300100	●
FGA	4q31.3	Afibrinogenemia, congenital	202400	●
BTK	Xq22.1	Agammaglobulinemia and isolated hormone deficiency	307200	●
BTK	Xq22.1	Agammaglobulinemia, X-linked 1	300755	●
SLC12A6	15q14	Agenesis of the corpus callosum with peripheral neuropathy	218000	●
TREX1	3p21.31	Aicardi-Goutieres syndrome 1, dominant and recessive	225750	●
RNASEH2B	13q14.3	Aicardi-Goutieres syndrome 2	610181	●
RNASEH2C	11q13.1	Aicardi-Goutieres syndrome 3	610329	●
RNASEH2A	19p13.2	Aicardi-Goutieres syndrome 4	610333	●
SAMHD1	20q11.23	Aicardi-Goutieres syndrome 5	612952	●
CYP11B1	8q24.3	Aldosteronism, glucocorticoid-remediable	103900	●
SLC16A2	Xq13.2	Allan-Herndon-Dudley syndrome	300523	●

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GENE	LOCUS	DISEASE	OMIM	
RAG1	11p12	Alpha/beta T-cell lymphopenia with gamma/delta T-cell expansion..	609889	●
ACAT1	11q22.3	Alpha-methylacetoacetic aciduria	203750	●
AMACR	5p13.2	Alpha-methylacyl-CoA racemase deficiency	614307	●
ATRX	Xq21.1	Alpha-thalassemia myelodysplasia syndrome, somatic	300448	●
ATRX	Xq21.1	Alpha-thalassemia/mental retardation syndrome	301040	●
COL4A5	Xq22.3	Alport syndrome	301050	●
COL4A3	2q36.3	Alport syndrome, autosomal dominant	104200	●
COL4A3	2q36.3	Alport syndrome, autosomal recessive	203780	●
COL4A	2q36.3	Alport syndrome, autosomal recessive	203780	●
ALMS1	2p13.1	Alstrom syndrome	203800	●
LAMB3	1q32.2	Amelogenesis imperfecta, type IA	104530	●
ST3GAL5	2p11.2	Amish infantile epilepsy syndrome	609056	●
FGA	4q31.3	Amyloidosis, familial visceral	105200	●
ALS2	2q33.1	Amyotrophic lateral sclerosis 2, juvenile	205100	●
RMRP	9p13.3	Anauxetic dysplasia	607095	●
AR	Xq12	Androgen insensitivity	300068	●
AR	Xq12	Androgen insensitivity, partial, with or without breast cancer	312300	●
MECP2	Xq28	Angelman syndrome	105830	●
UBE3A	15q11.2	Angelman syndrome	105830	●
UBE3A	15q11.2	Angelman syndrome	105830	●
CDKL5	Xp22.13	Angelman syndrome-like	105830	●
POR	7q11.23	Antley-Bixler syndrome with genital anomalies and disordered steroidogenesis	201750	●
NBN	8q21.3	Aplastic anemia	609135	●
HSD11B2	16q22.1	Apparent mineralocorticoid excess	218030	●
ASL	7q11.21	Argininosuccinic aciduria	207900	●
DDC	7p12.1	Aromatic L-amino acid decarboxylase deficiency	608643	●
DSP	6p24.3	Arrhythmogenic right ventricular dysplasia 8	607450	●
ENPP1	6q23.2	Arterial calcification, generalized, of infancy, 1	208000	●
GLE1	9q34.11	Arthrogryposis, lethal, with anterior horn cell disease	611890	●
VPS33B	15q26.1	Arthrogryposis, renal dysfunction, and cholestasis 1	208085	●
VIPAR	14q24.3	Arthrogryposis, renal dysfunction, and cholestasis 2	613404	●
PRPS1	Xq22.3	Arts syndrome	301835	●
NLGN4X	Xp22.32-p22.31	Asperger syndrome susceptibility, X-linked 2	300497	●
TTPA	8q12.3	Ataxia with isolated vitamin E deficiency	277460	●

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GENE	LOCUS	DISEASE	OMIM	
APT-X	9p21.1	Ataxia, early-onset, with oculomotor apraxia and hypoalbuminemia	208920	●
ATM	11q22.3	Ataxia-telangiectasia	208900	●
SLC26A2	5q32	Atelosteogenesis II	256050	●
NLGN4X	Xp22.32-p22.31	Autism susceptibility, X-linked 2	300495	●
MECP2	Xq28	Autism susceptibility, X-linked 3	300496	●
RPL10	Xq28	Autism, susceptibility to, X-linked 5	300847	●
FAS	10q23.31	Autoimmune lymphoproliferative syndrome	601859	●
FAS	10q23.31	Autoimmune lymphoproliferative syndrome, type IA	601859	●
FASLG	1q24.3	Autoimmune lymphoproliferative syndrome, type IB	601859	●
AIRE	21q22.3	Autoimmune polyendocrinopathy syndrome , type I, with or without reversible metaphyseal dysplasia	240300	●
PTEN	10q23.31	Bannayan-Riley-Ruvalcaba syndrome	153480	●
MKS1	17q22	Bardet-Biedl syndrome 13	615990	●
CEP290	12q21.32	Bardet-Biedl syndrome 14	615991	●
TMEM67	8q22.1	Bardet-Biedl syndrome 14, modifier of	209900	●
TAZ	Xq28	Barth syndrome	302060	●
GJB2	13q12.11	Bart-Pumphrey syndrome	149200	●
SLC12A1	15q21.1	Bartter syndrome, type 1	601678	●
KCNJ1	11q24.3	Bartter syndrome, type 2	241200	●
DMD	Xp21.2-p21.1	Becker muscular dystrophy	300376	●
NSD1	5q35.2-q35.3	Beckwith-Wiedemann syndrome	130650	●
COL6A1	21q22.3	Bethlem myopathy	158810	●
COL6A2	21q22.3	Bethlem myopathy	158810	●
COL6A3	2q37.3	Bethlem myopathy	158810	●
AMACR	5p13.2	Bile acid synthesis defect, congenital, 4	214950	●
BTD	3p25.1	Biotinidase deficiency	253260	●
BCS1L	2q35	Bjornstad syndrome	262000	●
BLM	15q26.1	Bloom syndrome	210900	●
COL1A1	17q21.33	Bone mineral density variation QTL, osteoporosis	166710	●
ZNF469	16q24.2	Brittle cornea syndrome 1	229200	●
SCNN1B	16p12.2	Bronchiectasis with or without elevated sweat chloride 1	211400	●
SCNN1A	12p13.31	Bronchiectasis with or without elevated sweat chloride 2	613021	●
SCNN1G	16p12.2	Bronchiectasis with or without elevated sweat chloride 3	613071	●
COL1A1	17q21.33	Caffey disease	114000	●

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GENE	LOCUS	DISEASE	OMIM	
ASPA	17p13.2	Canavan disease	271900	●
CPS1	2q34	Carbamoylphosphate synthetase I deficiency	237300	●
SCO2	22q13.33	Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 1	604377	●
COX15	10q24.2	Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 2	615119	●
LMNA	1q22	Cardiomyopathy, dilated, 1A	115200	●
FKTN	9q31.2	Cardiomyopathy, dilated, 1X	611615	●
DMD	Xp21.2-p21.1	Cardiomyopathy, dilated, 3B	302045	●
DSP	6p24.3	Cardiomyopathy, dilated, with woolly hair and keratoderma	605676	●
SLC22A5	5q31.1	Carnitine deficiency, systemic primary	212140	●
SLC25A20	3p21.31	Carnitine-acylcarnitine translocase deficiency	212138	●
RAB23	6p11.2	Carpenter syndrome	201000	●
RMRP	9p13.3	Cartilage-hair hypoplasia	250250	●
NHS	Xp22.13	Cataract 40, X-linked	302200	●
EDN3	20q13.32	Central hypoventilation syndrome, congenital	209880	●
VLDLR	9p24.2	Cerebellar hypoplasia and mental retardation with or without quadrupedal locomotion 1	224050	●
SLC6A8	Xq28	Cerebral creatine deficiency syndrome 1	300352	●
GAMT	19p13.3	Cerebral creatine deficiency syndrome 2	612736	●
SNAP29	22q11.21	Cerebral dysgenesis, neuropathy, ichthyosis, and palmoplantar keratoderma	609528	●
ERCC6	10q11.23	Cerebrooculofacioskeletal syndrome 1	214150	●
ERCC2	19q13.32	Cerebrooculofacioskeletal syndrome 2	610756	●
CYP27A1	2q35	Cerebrotendinous xanthomatosis	213700	●
PPT1	1p34.2	Ceroid lipofuscinosis, neuronal, 1	256730	●
CTSD	11p15.5	Ceroid lipofuscinosis, neuronal, 10	610127	●
TPP1	11p15.4	Ceroid lipofuscinosis, neuronal, 2	204500	●
CLN3	16p11.2	Ceroid lipofuscinosis, neuronal, 3	204200	●
CLN5	13q22.3	Ceroid lipofuscinosis, neuronal, 5	256731	●
CLN6	15q23	Ceroid lipofuscinosis, neuronal, 6	601780	●
MFSDB	4q28.2	Ceroid lipofuscinosis, neuronal, 7	610951	●
CLN8	8p23.3	Ceroid lipofuscinosis, neuronal, 8	600143	●
CLN8	8p23.3	Ceroid lipofuscinosis, neuronal, 8, Northern epilepsy variant	610003	●
CLN6	15q23	Ceroid lipofuscinosis, neuronal, Kufs type, adult onset	204300	●
GDAP1	8q21.11	Charcot-Marie-Tooth disease, axonal, type 2K	607831	●
IGHMBP2	11q13.3	Charcot-Marie-Tooth disease, axonal, type 2S	616155	●
GDAP1	8q21.11	Charcot-Marie-Tooth disease, axonal, with vocal cord paresis	607706	●

COMPATIBILITY

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GENE	LOCUS	DISEASE	OMIM	
MPZ	1q23.3	Charcot-Marie-Tooth disease, dominant intermediate D	607791	●
PLEKHG5	1p36.31	Charcot-Marie-Tooth disease, recessive intermediate C	615376	●
GDAP1	8q21.11	Charcot-Marie-Tooth disease, recessive intermediate, A	608340	●
PMP22	17p12	Charcot-Marie-Tooth disease, type 1A	118220	●
MPZ	1q23.3	Charcot-Marie-Tooth disease, type 1B	118200	●
EGR2	10q21.3	Charcot-Marie-Tooth disease, type 1D	607678	●
PMP22	17p12	Charcot-Marie-Tooth disease, type 1E	118300	●
LMNA	1q22	Charcot-Marie-Tooth disease, type 2B1	605588	●
MPZ	1q23.3	Charcot-Marie-Tooth disease, type 2I	607677	●
MPZ	1q23.3	Charcot-Marie-Tooth disease, type 2J	607736	●
GDAP1	8q21.11	Charcot-Marie-Tooth disease, type 4A	214400	●
PRX	19q13.2	Charcot-Marie-Tooth disease, type 4F	614895	●
FGD4	12p11.21	Charcot-Marie-Tooth disease, type 4H	609311	●
PRPS1	Xq22.3	Charcot-Marie-Tooth disease, X-linked recessive, 5	311070	●
LYST	1q42.3	Chediak-Higashi syndrome	214500	●
TREX1	3p21.31	Chilblain lupus	610448	●
SAMHD1	20q11.23	Chilblain lupus 2	614415	●
ATP8B1	18q21.31	Cholestasis, benign recurrent intrahepatic	243300	●
ABCB11	2q31.1	Cholestasis, benign recurrent intrahepatic, 2	605479	●
ATP8B1	18q21.31	Cholestasis, intrahepatic, of pregnancy, 1	147480	●
ABCB4	7q21.12	Cholestasis, intrahepatic, of pregnancy, 3	614972	●
ATP8B1	18q21.31	Cholestasis, progressive familial intrahepatic 1	211600	●
ABCB11	2q31.1	Cholestasis, progressive familial intrahepatic 2	601847	●
ABCB4	7q21.12	Cholestasis, progressive familial intrahepatic 3	602347	●
ARSE	Xp22.33	Chondrodysplasia punctata, X-linked recessive	302950	●
PTH1R	3p21.31	Chondrodysplasia, Blomstrand type	215045	●
ASS1	9q34.11	Citrullinemia	215700	●
RPGRIP1L	16q12.2	COACH syndrome	216360	●
TMEM67	8q22.1	COACH syndrome	216360	●
ERCC8	5q12.1	Cockayne syndrome, type A	216400	●
ERCC6	10q11.23	Cockayne syndrome, type B	133540	●
COQ2	4q21.23	Coenzyme Q10 deficiency, primary, 1	607426	●
PDSS1	10p12.1	Coenzyme Q10 deficiency, primary, 2	614651	●
PDSS2	6q21	Coenzyme Q10 deficiency, primary, 3	614652	●
ADCK3	1q42.13	Coenzyme Q10 deficiency, primary, 4	612016	●
COQ9	16q21	Coenzyme Q10 deficiency, primary, 5	614654	●
RPS6KA3	Xp22.12	Coffin-Lowry syndrome	303600	●
VPS13B	8q22.2	Cohen syndrome	216550	●
CRLF1	19p13.11	Cold-induced sweating syndrome 1	272430	●
ENPP1	6q23.2	Cole disease	615522	●

COMPATIBILITY

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GENE	LOCUS	DISEASE	OMIM	
RAG1	11p12	Combined cellular and humoral immune defects with granulomas	233650	●
RAG2	11p12	Combined cellular and humoral immune defects with granulomas	233650	●
IL2R	Xq13.1	Combined immunodeficiency, X-linked, moderate	312863	●
GFM1	3q25.32	Combined oxidative phosphorylation deficiency 1	609060	●
MRPS16	10q22.2	Combined oxidative phosphorylation deficiency 2	610498	●
TSFM	12q14.1	Combined oxidative phosphorylation deficiency 3	610505	●
TUFM	16p11.2	Combined oxidative phosphorylation deficiency 4	610678	●
MRPS22	3q23	Combined oxidative phosphorylation deficiency 5	611719	●
PSAP	10q22.1	Combined SAP deficiency	611721	●
NDUFS6	5p15.33	Complex I, mitochondrial respiratory chain, deficiency of	252010	●
PMM2	16p13.2	Congenital disorder of glycosylation, type Ia	212065	●
MPI	15q24.1	Congenital disorder of glycosylation, type Ib	602579	●
ALG6	1p31.3	Congenital disorder of glycosylation, type Ic	603147	●
ALG3	3q27.1	Congenital disorder of glycosylation, type Id	601110	●
DPM1	20q13.13	Congenital disorder of glycosylation, type Ie	608799	●
MPDU1	17p13.1	Congenital disorder of glycosylation, type If	609180	●
ALG12	22q13.33	Congenital disorder of glycosylation, type Ig	607143	●
ALG8	11q14.1	Congenital disorder of glycosylation, type Ih	608104	●
ALG2	9q22.33	Congenital disorder of glycosylation, type Ii	607906	●
MGAT2	14q21.3	Congenital disorder of glycosylation, type IIa	212066	●
MOGS	2p13.1	Congenital disorder of glycosylation, type IIb	606056	●
SLC35C1	11p11.2	Congenital disorder of glycosylation, type IIc	266265	●
B4GALT1	9p21.1	Congenital disorder of glycosylation, type IId	607091	●
COG7	16p12.2	Congenital disorder of glycosylation, type IIe	608779	●
SLC35A1	6q15	Congenital disorder of glycosylation, type IIf	603585	●
COG1	17q25.1	Congenital disorder of glycosylation, type IIg	611209	●
COG8	16q22.1	Congenital disorder of glycosylation, type IIh	611182	●
DPAGT1	11q23.3	Congenital disorder of glycosylation, type Ij	608093	●
ALG1	16p13.3	Congenital disorder of glycosylation, type Ik		●
ALG9	11q23.1	Congenital disorder of glycosylation, type Il	608776	●
DOLK	9q34.11	Congenital disorder of glycosylation, type Im	610768	●
RFT1	3p21.1	Congenital disorder of glycosylation, type In	612015	●
SRD5A3	4q12	Congenital disorder of glycosylation, type Iq	612379	●
ZIC3	Xq26.3	Congenital heart defects, nonsyndromic, 1, X-linked	306955	●

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GENE	LOCUS	DISEASE	OMIM	
SLC4A11	20p13	Corneal dystrophy, Fuchs endothelial, 4	613268	●
SLC4A11	20p13	Corneal endothelial dystrophy 2, autosomal recessive	217700	●
SLC4A11	20p13	Corneal endothelial dystrophy and perceptive deafness	217400	●
L1CAM	Xq28	Corpus callosum, partial agenesis of	304100	●
PTEN	10q23.31	Cowden syndrome 1	158350	●
CPT1A	11q13.3	CPT deficiency, hepatic, type IA	255120	●
CPT2	1p32.3	CPT deficiency, hepatic, type II	600649	●
CPT2	1p32.3	CPT II deficiency, lethal neonatal	608836	●
EFNB1	Xq13.1	Craniofrontonasal dysplasia	304110	●
L1CAM	Xq28	CRASH syndrome	303350	●
ATR	3q23	Cutaneous telangiectasia and cancer syndrome, familial	614564	●
FBLN5	14q32.12	Cutis laxa, autosomal recessive, type IA	219100	●
EFEMP2	11q13.1	Cutis laxa, autosomal recessive, type IB	614437	●
ATP6V0A2	12q24.31	Cutis laxa, autosomal recessive, type IIA	219200	●
CFTR	7q31.2	Cystic fibrosis	219700	●
CTNS	17p13.2	Cystinosis, atypical nephropathic	219800	●
CTNS	17p13.2	Cystinosis, late-onset juvenile or adolescent nephropathic	219900	●
CTNS	17p13.2	Cystinosis, nephropathic	219800	●
CTNS	17p13.2	Cystinosis, ocular nonnephropathic	219750	●
HSD17B4	5q23.1	D-bifunctional protein deficiency	261515	●
SLC26A2	5q32	De la Chapelle dysplasia	256050	●
ERCC6	10q11.23	De Sanctis-Cacchione syndrome	278800	●
MYO7A	11q13.5	Deafness, autosomal dominant 11	601317	●
GJB2	13q12.11	Deafness, autosomal dominant 3A	601544	●
CDH23	10q22.1	Deafness, autosomal recessive 12	601386	●
USH1C	11p15.1	Deafness, autosomal recessive 18A	602092	●
GJB2	13q12.11	Deafness, autosomal recessive 1A	220290	●
MYO7A	11q13.5	Deafness, autosomal recessive 2	600060	●
PRPS1	Xq22.3	Deafness, X-linked 1	304500	●
TIMM8A	Xq22.1	Deafness, X-linked 1, progressive	300066	●
F9	Xq27.1	Deep venous thrombosis, protection against	300807	●
EGR2	10q21.3	Dejerine-Sottas disease	145900	●
MPZ	1q23.3	Dejerine-Sottas disease	145900	●
PMP22	17p12	Dejerine-Sottas disease	145900	●
PRX	19q13.2	Dejerine-Sottas disease	145900	●
HBB	11p15.4	Delta-beta thalassemia	141749	●
CLCN5	Xp11.23-p11.22	Dent disease	300009	●
OCRL	Xq25-q26	Dent disease 2	300555	●
DHCR24	1p32.3	Desmosterolosis	602398	●

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GENE	LOCUS	DISEASE	OMIM	
<i>INSR</i>	19p13.2	Diabetes mellitus, insulin-resistant, with acanthosis nigricans	610549	●
<i>ABCC8</i>	11p15.1	Diabetes mellitus, noninsulin-dependent	125853	●
<i>ENPP1</i>	6q23.2	Diabetes mellitus, non-insulin-dependent, susceptibility to	125853	●
<i>ABCC8</i>	11p15.1	Diabetes mellitus, permanent neonatal	606176	●
<i>ABCC8</i>	11p15.1	Diabetes mellitus, transient neonatal 2	610374	●
<i>FOXP3</i>	Xp11.23	Diabetes mellitus, type I, susceptibility to	222100	●
<i>NEUROG3</i>	10q22.1	Diarrhea 4, malabsorptive, congenital	610370	●
<i>SLC26A2</i>	5q32	Diastrophic dysplasia	222600	●
<i>SLC26A2</i>	5q32	Diastrophic dysplasia, broad bone-platyspondylic variant	222600	●
<i>DLD</i>	31.1	Dihydrolipoamide dehydrogenase deficiency	246900	●
<i>DPYD</i>	1p21.3	Dihydropyrimidine dehydrogenase deficiency	274270	●
<i>DSP</i>	6p24.3	Dilated cardiomyopathy with woolly hair, keratoderma, and tooth agenesis	615821	●
<i>POR</i>	7q11.23	Disordered steroidogenesis due to cytochrome P450 oxidoreductase	613571	●
<i>LRP2</i>	2q31.1	Donnai-Barrow syndrome	222448	●
<i>DMD</i>	Xp21.2-p21.1	Duchenne muscular dystrophy	310200	●
<i>G6PC3</i>	17q21.31	Dursun syndrome	612541	●
<i>IKBKAP</i>	9q31.3	Dysautonomia, familial	223900	●
<i>FGA</i>	4q31.3	Dysfibrinogenemia, congenital	616004	●
<i>DKC1</i>	Xq28	Dyskeratosis congenita, X-linked	305000	●
<i>PLG</i>	6q26	Dysplasminogenemia	217090	●
<i>HSPG2</i>	1p36.12	Dyssegmental dysplasia, Silverman-Handmaker type	224410	●
<i>COL6A3</i>	2q37.3	Dystonia 27	616411	●
<i>COL7A1</i>	3p21.31	EBD inversa	226600	●
<i>COL7A1</i>	3p21.31	EBD, Bart type	132000	●
<i>COL7A1</i>	3p21.31	EBD, localisata variant		●
<i>EDA</i>	Xq13.1	Ectodermal dysplasia 1, hypohidrotic, X-linked	305100	●
<i>IKBKG</i>	Xq28	Ectodermal dysplasia, hypohidrotic, with immune deficiency	300291	●
<i>IKBKG</i>	Xq28	Ectodermal, dysplasia, anhidrotic, lymphedema and immunodeficiency	300301	●
<i>COL1A2</i>	7q21.3	Ehlers-Danlos syndrome, cardiac valvular form	225320	●
<i>COL1A1</i>	17q21.33	Ehlers-Danlos syndrome, classic	130000	●
<i>PLOD1</i>	1p36.22	Ehlers-Danlos syndrome, type VI	225400	●
<i>COL1A1</i>	17q21.33	Ehlers-Danlos syndrome, type VIIA	130060	●
<i>COL1A2</i>	7q21.3	Ehlers-Danlos syndrome, type VIIB	130060	●
<i>PTH1R</i>	3p21.31	Eiken syndrome	600002	●
<i>EVC</i>	4p16.2	Ellis-van Creveld syndrome	225500	●
<i>EVC2</i>	4p16.2	Ellis-van Creveld syndrome	225500	●

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GENE	LOCUS	DISEASE	OMIM	
LMNA	1q22	Emery-Dreifuss muscular dystrophy 3, AR	181350	●
MECP2	Xq28	Encephalopathy, neonatal severe	300673	●
COL7A1	3p21.31	Epidermolysis bullosa dystrophica, AR	226600	●
ITGB4	17q25.1	Epidermolysis bullosa of hands and feet	131800	●
COL7A1	3p21.31	Epidermolysis bullosa pruriginosa	604129	●
PLEC	8q24.3	Epidermolysis bullosa simplex with pyloric atresia	612138	●
PLEC	8q24.3	Epidermolysis bullosa simplex, Oгна type	131950	●
LAMA3	18q11.2	Epidermolysis bullosa, generalized atrophic benign	226650	●
LAMA3	18q11.2	Epidermolysis bullosa, junctional, Herlitz type	226700	●
LAMB3	1q32.2	Epidermolysis bullosa, junctional, Herlitz type	226700	●
LAMC2	1q25.3	Epidermolysis bullosa, junctional, Herlitz type	226700	●
COL17A1	10q24.3-q25.1	Epidermolysis bullosa, junctional, non-Herlitz type	226650	●
ITGB4	17q25.1	Epidermolysis bullosa, junctional, non-Herlitz type	226650	●
LAMB3	1q32.2	Epidermolysis bullosa, junctional, non-Herlitz type	226650	●
LAMC2	1q25.3	Epidermolysis bullosa, junctional, non-Herlitz type	226650	●
ITGB4	17q25.1	Epidermolysis bullosa, junctional, with pyloric atresia	226730	●
ITGA6	2q31.1	Epidermolysis bullosa, junctional, with pyloric stenosis	226730	●
DSP	6p24.3	Epidermolysis bullosa, lethal acantholytic	609638	●
COL7A1	3p21.31	Epidermolysis bullosa, pretibial	131850	●
RELN	7q22.1	Epilepsy, familial temporal lobe, 7	616436	●
CSTB	21q22.3	Epilepsy, progressive myoclonic 1A (Unverricht and Lundborg)	254800	●
EPM2A	6q24.3	Epilepsy, progressive myoclonic 2A (Lafora)	254780	●
NHLRC1	6p22.3	Epilepsy, progressive myoclonic 2B (Lafora)	254780	●
ALDH7A1	5q23.2	Epilepsy, pyridoxine-dependent	266100	●
ARX	Xp21.3	Epileptic encephalopathy, early infantile, 1	308350	●
ST3GAL3	1p34.1	Epileptic encephalopathy, early infantile, 15	615006	●
CDKL5	Xp22.13	Epileptic encephalopathy, early infantile, 2	300672	●
SLC25A22	11p15.5	Epileptic encephalopathy, early infantile, 3	609304	●
ARHGEF9	Xq11.1-q11.2	Epileptic encephalopathy, early infantile, 8	300607	●
PCDH19	Xq22.1	Epileptic encephalopathy, early infantile, 9	300088	●
SLC26A2	5q32	Epiphyseal dysplasia, multiple, 4	226900	●
HBA1	16p13.3	Thalassemia, alpha-	141750	●
HBB	11p15.4	Thalassemia, beta-	613985	●
CHRNA7	2q37.1	Escobar syndrome	265000	●
ETHE1	19q13.31	Ethylmalonic encephalopathy	602473	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
NDP	Xp11.3	Exudative vitreoretinopathy 2, X-linked	305390	●
GLA	Xq22.1	Fabry disease	301500	●
PTH1R	3p21.31	Failure of tooth eruption, primary	125350	●
MEFV	16p13.3	Familial Mediterranean fever, AR	249100	●
FANCC	9q22.32	Fanconi anemia, complementation group C	227645	●
ERCC4	16p13.12	Fanconi anemia, complementation group Q	610965	●
HADHA	2p23.3	Fatty liver, acute, of pregnancy	609016	●
G6PD	Xq28	Favism	134700	●
GPR98	5q14.3	Febrile seizures, familial, 4	604352	●
RAPSN	11p11.2	Fetal akinesia deformation sequence	208150	●
DOK7	4p16.3	Fetal akinesia deformation sequence	208150	●
CASK	Xp11.4	FG syndrome 4	300422	●
FRAS1	4q21.21	Fraser syndrome	219000	●
FREM2	13q13.3	Fraser syndrome	219000	●
ALDOB	9q31.1	Fructose intolerance	229600	●
FUCA1	1p36.11	Fucosidosis	230000	●
WNT7A	3p25.1	Fuhrmann syndrome	228930	●
GALK1	17q25.1	Galactokinase deficiency with cataracts	230200	●
GALT	9p13.3	Galactosemia	230400	●
ABCB4	7q21.12	Gallbladder disease 1	600803	●
PSAP	10q22.1	Gaucher disease, atypical	610539	●
GBA	1q22	Gaucher disease, perinatal lethal	608013	●
GBA	1q22	Gaucher disease, type I	230800	●
GBA	1q22	Gaucher disease, type II	230900	●
GBA	1q22	Gaucher disease, type III	231000	●
GBA	1q22	Gaucher disease, type IIIC	231005	●
ADAMTSL2	9q34.2	Geleophysic dysplasia 1	231050	●
ETFA	15q24.2-q24.3	Glutaric acidemia IIA	231680	●
ETFB	19q13.41	Glutaric acidemia IIB	231680	●
ETFDH	4q32.1	Glutaric acidemia IIC	231680	●
GCDH	19p13.2	Glutaricaciduria, type I	231670	●
GSS	20q11.22	Glutathione synthetase deficiency	266130	●
AMT	3p21.31	Glycine encephalopathy	605899	●
GCSH	16q23.2	Glycine encephalopathy	605899	●
GLDC	9p24.1	Glycine encephalopathy	605899	●
G6PC	17q21.31	Glycogen storage disease Ia	232200	●
SLC37A4	11q23.3	Glycogen storage disease Ib	232220	●
SLC37A4	11q23.3	Glycogen storage disease Ic	232240	●
GAA	17q25.3	Glycogen storage disease II	232300	●
AGL	1p21.2	Glycogen storage disease IIIa	232400	●
AGL	1p21.2	Glycogen storage disease IIIb	232400	●
GBE1	3p12.2	Glycogen storage disease IV	232500	●
GLB1	3p22.3	GM1-gangliosidosis, type I	230500	●
GLB1	3p22.3	GM1-gangliosidosis, type II	230600	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
GLB1	3p22.3	GM1-gangliosidosis, type III	230650	●
HEXA	15q23	GM2-gangliosidosis, several forms	272800	●
PRPS1	Xq22.3	Gout, PRPS-related	300661	●
BCS1L	2q35	GRACILE syndrome	603358	●
LBR	1q42.12	Greenberg skeletal dysplasia	215140	●
MYO5A	15q21.2	Griscelli syndrome, type 1	214450	●
RAB27A	15q21.3	Griscelli syndrome, type 2	607624	●
HESX1	3p14.3	Growth hormone deficiency with pituitary anomalies	182230	●
PANK2	20p13	HARP syndrome	607236	●
HP	12q24.31	Hawkinsinuria	140350	●
HADHA	2p23.3	HELLP syndrome, maternal, of pregnancy	609016	●
COL4A3	2q36.3	Hematuria, benign familial	141200	●
COL4A	2q36.3	Hematuria, familial benign		●
HFE2	1q21.1	Hemochromatosis, type 2A	602390	●
HAMP	19q13.12	Hemochromatosis, type 2B	613313	●
HBA1	16p13.3	Hemoglobin H disease, nondeletional	613978	●
G6PD	Xq28	Hemolytic anemia due to G6PD deficiency	300908	●
GSS	20q11.22	Hemolytic anemia due to glutathione synthetase deficiency	231900	●
PRF1	10q22.1	Hemophagocytic lymphohistiocytosis, familial, 2	603553	●
UNC13D	17q25.1	Hemophagocytic lymphohistiocytosis, familial, 3	608898	●
STX11	6q24.2	Hemophagocytic lymphohistiocytosis, familial, 4	603552	●
STXBP2	19p13.2	Hemophagocytic lymphohistiocytosis, familial, 5	613101	●
F8	Xq28	Hemophilia A	306700	●
F9	Xq27.1	Hemophilia B	306900	●
SCO1	17p13.1	Hepatic failure, early onset, and neurologic disorder	603644	●
SP110	2q37.1	Hepatic venoocclusive disease with immunodeficiency	235550	●
HBB	11p15.4	Hereditary persistence of fetal hemoglobin	141749	●
AP3B1	5q14.1	Hermansky-Pudlak syndrome 2	608233	●
PLDN	15q21.1	Hermansky-pudlak syndrome 9	614171	●
UNC93B1	11q13.2	Herpes simplex encephalitis, susceptibility to, 1	610551	●
TLR3	4q35.1	Herpes simplex encephalitis, susceptibility to, 2	613002	●
ZIC3	Xq26.3	Heterotaxy, visceral, 1, X-linked	306955	●
HEXA	15q23	Hex A pseudodeficiency	272800	●
TLR3	4q35.1	HIV1 infection, resistance to	609423	●
HMGCL	1p36.11	HMG-CoA lyase deficiency	246450	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
HLCS	21q22.13	Holocarboxylase synthetase deficiency	253270	●
CBS	21q22.3	Homocystinuria, B6-responsive and nonresponsive types	236200	●
LMNA	1q22	Hutchinson-Gilford progeria	176670	●
ANTXR2	4q21.21	Hyaline fibromatosis syndrome	228600	●
ARX	Xp21.3	Hydranencephaly with abnormal genitalia	300215	●
L1CAM	Xq28	Hydrocephalus due to aqueductal stenosis	307000	●
L1CAM	Xq28	Hydrocephalus with congenital idiopathic intestinal pseudoobstruction	307000	●
L1CAM	Xq28	Hydrocephalus with Hirschsprung disease	307000	●
CYP21A2	6p21.33	Hyperandrogenism, nonclassic type, due to 21-hydroxylase deficiency	201910	●
FH	19p13.2	Hypercholesterolemia, familial	143890	●
MVK	12q24.11	Hyper-IgD syndrome	260920	●
DOCK8	9p24.3	Hyper-IgE recurrent infection syndrome, autosomal recessive	243700	●
ABCC8	11p15.1	Hyperinsulinemic hypoglycemia, familial, 1	256450	●
HADH	4q25	Hyperinsulinemic hypoglycemia, familial, 4	609975	●
INSR	19p13.2	Hyperinsulinemic hypoglycemia, familial, 5	609968	●
SLC25A15	13q14.11	Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome	238970	●
FGA	4q31.3	Hypodysfibrinogenemia, congenital	616004	●
ABCC8	11p15.1	Hypoglycemia of infancy, leucine-sensitive	240800	●
GNRHR	4q13.2	Hypogonadotropic hypogonadism 7 without anosmia	146110	●
CLDN19	1p34.2	Hypomagnesemia 5, renal, with ocular involvement	248190	●
TBCE	1q42.3	Hypoparathyroidism-retardation-dysmorphism syndrome	241410	●
ALPL	1p36.12	Hypophosphatasia, childhood	241510	●
ALPL	1p36.12	Hypophosphatasia, infantile	241500	●
CLCN5	Xp11.23-p11.22	Hypophosphatemic rickets	300554	●
DMP1	4q22.1	Hypophosphatemic rickets, AR	241520	●
ENPP1	6q23.2	Hypophosphatemic rickets, autosomal recessive, 2	613312	●
AR	Xq12	Hypospadias 1, X-linked	300633	●
TSHB	1p13.2	Hypothyroidism, congenital, nongoitrous 4	275100	●
GJB2	13q12.11	Hystrix-like ichthyosis with deafness	602540	●
ABCA12	2q35	Ichthyosis, autosomal recessive 4B (harlequin)	242500	●
TGM1	14q12	Ichthyosis, congenital, autosomal recessive 1	242300	●
CLDN1	3q28	Ichthyosis, leukocyte vacuoles, alopecia, and sclerosing cholangitis	607626	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
MBTPS2	Xp22.12-p22.11	IFAP syndrome with or without BRESHECK syndrome	308205	●
STIM1	11p15.4	Immunodeficiency 10	612783	●
CD3G	11q23.3	Immunodeficiency 17, CD3 gamma deficient	615607	●
CD3E	11q23.3	Immunodeficiency 18	615615	●
CD3E	11q23.3	Immunodeficiency 18, SCID variant	615615	●
CD3D	11q23.3	Immunodeficiency 19	615617	●
CD247	1q24.2	Immunodeficiency 25	610163	●
IFNGR1	6q23.3	Immunodeficiency 27A, mycobacteriosis, AR	209950	●
IFNGR1	6q23.3	Immunodeficiency 27B, mycobacteriosis, AD	615978	●
IFNGR2	21q22.11	Immunodeficiency 28, mycobacteriosis	614889	●
IL12B	5q33.3	Immunodeficiency 29, mycobacteriosis	614890	●
IL12RB1	19p13.11	Immunodeficiency 30	614891	●
STAT1	2q32.2	Immunodeficiency 31B, mycobacterial and viral infections, autosomal reces.	613796	●
IKBK	Xq28	Immunodeficiency 33	300636	●
TYK2	19p13.2	Immunodeficiency 35	611521	●
ORAI1	12q24.31	Immunodeficiency 9	612782	●
ICOS	2q33.2	Immunodeficiency, common variable, 1	607594	●
CD19	16p11.2	Immunodeficiency, common variable, 3	613493	●
IKBK	Xq28	Immunodeficiency, isolated	300584	●
CD40LG	Xq26.3	Immunodeficiency, X-linked, with hyper-IgM	308230	●
DNMT3B	20q11.21	Immunodeficiency-centromeric instability-facial anomalies syndrome 1	242860	●
FOXP3	Xp11.23	Immunodysregulation, polyendocrinopathy, and enteropathy, X-linked	304790	●
IKBK	Xq28	Incontinentia pigmenti	308300	●
PLA2G6	22q13.1	Infantile neuroaxonal dystrophy 1	256600	●
NTRK1	1q23.1	Insensitivity to pain, congenital, with anhidrosis	256800	●
IL1RN	2q13	Interleukin 1 receptor antagonist deficiency	612852	●
IVD	15q15.1	Isovaleric acidemia	243500	●
TIMM8A	Xq22.1	Jensen syndrome	311150	●
UBR1	15q15.2	Johanson-Blizzard syndrome	243800	●
OFD1	Xp22.2	Joubert syndrome 10	300804	●
NPHP1	2q13	Joubert syndrome 4	609583	●
CEP290	12q21.32	Joubert syndrome 5	610188	●
TMEM67	8q22.1	Joubert syndrome 6	610688	●
RPGRIP1L	16q12.2	Joubert syndrome 7	611560	●
AHI1	6q23.3	Joubert syndrome-3	608629	●
SRD5A3	4q12	Kahrizi syndrome	612713	●
HPRT	Xq26.2-q26.3	KELLEY-SEEGMILLER SYNDROME	300323	●
TBCE	1q42.3	Kenny-Caffey syndrome-1	244460	●
GJB2	13q12.11	Keratitichthyosis-deafness syndrome	148210	●
GJB2	13q12.11	Keratoderma, palmoplantar, with deafness	148350	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
MBTPS2	Xp22.12-p22.11	Keratosis follicularis spinulosa decalvans, X-linked	308800	●
DSP	6p24.3	Keratosis palmoplantaris striata II	612908	●
GALC	14q31.3	Krabbe disease	245200	●
PSAP	10q22.1	Krabbe disease, atypical	611722	●
PDHX	11p13	Lacticacidemia due to PDX1 deficiency	245349	●
LAMA3	18q11.2	Laryngoonychocutaneous syndrome	245660	●
SC5DL	11q23.3	Lathosterolosis	607330	●
HADHA	2p23.3	LCHAD deficiency	609016	●
FH	19p13.2	LDL cholesterol level QTL2	143890	●
CEP290	12q21.32	Leber congenital amaurosis 10	611755	●
BCS1L	2q35	Leigh syndrome	256000	●
NDUFAF	5q12.1	Leigh syndrome	256000	●
NDUFS4	5q11.2	Leigh syndrome	256000	●
NDUFS7	19p13.3	Leigh syndrome	256000	●
COX15	10q24.2	Leigh syndrome due to cytochrome c oxidase deficiency	256000	●
NDUFS3	11p11.2	Leigh syndrome due to mitochondrial complex I deficiency	256000	●
NDUFS8	11q13.2	Leigh syndrome due to mitochondrial complex I deficiency	256000	●
COX10	17p12	Leigh syndrome due to mitochondrial COX4 deficiency	256000	●
SURF1	9q34.2	Leigh syndrome, due to COX deficiency	256000	●
LRPPRC	2p21	Leigh syndrome, French-Canadian type	220111	●
INSR	19p13.2	Leprechaunism	246200	●
HPRT	Xq26.2-q26.3	Lesch-Nyhan syndrome	300322	●
ERBB3	12q13.2	Lethal congenital contractural syndrome 2	607598	●
GLE1	9q34.11	Lethal congenital contracture syndrome 1	253310	●
NBN	8q21.3	Leukemia, acute lymphoblastic	613065	●
NSD1	5q35.2-q35.3	Leukemia, acute myeloid	601626	●
FERMT3	11q13.1	Leukocyte adhesion deficiency, type III	612840	●
GJC2	1q42.13	Leukodystrophy, hypomyelinating, 2	608804	●
FAM126A	7p15.3	Leukodystrophy, hypomyelinating, 5	610532	●
GBA	1q22	Lewy body dementia, susceptibility to	127750	●
LHCGR	2p16.3	Leydig cell adenoma, somatic, with precocious puberty	176410	●
LHCGR	2p16.3	Leydig cell hypoplasia with hypergonadotropic hypogonadism	238320	●
LHCGR	2p16.3	Leydig cell hypoplasia with pseudohermaphroditism	238320	●
PTEN	10q23.31	Lhermitte-Duclos syndrome	158350	●
SCNN1B	16p12.2	Liddle syndrome	177200	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
SCNN1G	16p12.2	Liddle syndrome	177200	●
LIG4	13q33.3	LIG4 syndrome	606593	●
LMNA	1q22	Lipodystrophy, familial partial, 2	151660	●
STAR	8p11.23	Lipoid adrenal hyperplasia	201710	●
RELN	7q22.1	Lissencephaly 2 (Norman-Roberts type)	257320	●
TUBA1A	12q13.12	Lissencephaly 3	611603	●
DCX	Xq23	Lissencephaly, X-linked	300067	●
ARX	Xp21.3	Lissencephaly, X-linked 2	300215	●
OCRL	Xq25-q26	Lowe syndrome	309000	●
MED12	Xq13.1	Lujan-Fryns syndrome	309520	●
LHCGR	2p16.3	Luteinizing hormone resistance, female	238320	●
GJC2	1q42.13	Lymphedema, hereditary, IC	613480	●
PRF1	10q22.1	Lymphoma, non-Hodgkin	605027	●
SH2D1A	Xq25	Lymphoproliferative syndrome, X-linked, 1	308240	●
XIAP	Xq25	Lymphoproliferative syndrome, X-linked, 2	300635	●
PTEN	10q23.31	Macrocephaly/autism syndrome	605309	●
MYD88	3p22.2	Macroglobulinemia, Waldenstrom, somatic	153600	●
ERCC6	10q11.23	Macular degeneration, age-related, susceptibility to 5	613761	●
MFSD8	4q28.2	Macular dystrophy with central cone involvement	616170	●
LMNA	1q22	Malouf syndrome	212112	●
LMNA	1q22	Mandibuloacral dysplasia	248370	●
ZMPSTE24	1p34.2	Mandibuloacral dysplasia with type B lipodystrophy	608612	●
MAN2B1	19p13.2	Mannosidosis, alpha-, types I and II	248500	●
BCKDHA	19q13.2	Maple syrup urine disease, type Ia	248600	●
BCKDHB	6q14.1	Maple syrup urine disease, type Ib	248600	●
DBT	1p21.2	Maple syrup urine disease, type II	248600	●
SIL1	5q31.2	Marinesco-Sjogren syndrome	248800	●
RAB3GAP2	1q41	Martsolf syndrome	212720	●
L1CAM	Xq28	MASA syndrome	303350	●
PYGM	11q13.1	McArdle disease	232600	●
MKS1	17q22	Meckel syndrome 1	249000	●
TMEM67	8q22.1	Meckel syndrome 3	607361	●
CEP290	12q21.32	Meckel syndrome 4	611134	●
RPGRIP1L	16q12.2	Meckel syndrome 5	611561	●
NPHP3	3q22.1	Meckel syndrome 7	267010	●
MLC1	22q13.33	Megalencephalic leukoencephalopathy with subcortical cysts	604004	●
ATP7A	Xq21.1	Menkes disease	309400	●
CASK	Xp11.4	Mental retardation and microcephaly with pontine and cerebellar hypoplasia	300749	●
DOCK8	9p24.3	Mental retardation, autosomal dominant 2	614113	●
PRSS12	4q26	Mental retardation, autosomal recessive 1	249500	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
ST3GAL3	1p34.1	Mental retardation, autosomal recessive 12	611090	●
TRAPPC9	8q24.3	Mental retardation, autosomal recessive 13	613192	●
NSUN2	5p15.31	Mental retardation, autosomal recessive 5	611091	●
TUSC3	8p22	Mental retardation, autosomal recessive 7	611093	●
GRIK2	6q16.3	Mental retardation, autosomal recessive, 6	611092	●
CASK	Xp11.4	Mental retardation, with or without nystagmus	300422	●
NLGN4X	Xp22.31	Mental retardation, X-linked	300495	●
RPS6KA3	Xp22.12	Mental retardation, X-linked 19	300844	●
IL1RAPL1	Xp21.3	Mental retardation, X-linked 21/34	300143	●
ARX	Xp21.3	Mental retardation, X-linked 29 and others	300419	●
PAK3	Xq23	Mental retardation, X-linked 30/47	300558	●
GDI1	Xq28	Mental retardation, X-linked 41	300849	●
ARHGEF6	Xq26.3	Mental retardation, X-linked 46	300436	●
ACSL4	Xq23	Mental retardation, X-linked 63	300387	●
RAB39B	Xq28	Mental retardation, X-linked 72	300271	●
AGTR2	Xq24	Mental retardation, X-linked 88	300852	●
FTSJ1	Xp11.23	Mental retardation, X-linked 9	309549	●
DLG3	Xq13.1	Mental retardation, X-linked 90	300850	●
BRWD3	Xq21.1	Mental retardation, X-linked 93	300659	●
SYP	Xp11.23	Mental retardation, X-linked 96	300802	●
ZNF711	Xq21.1	Mental retardation, X-linked 97	300803	●
HSD17B10	Xp11.22	Mental retardation, X-linked syndromic 10	300220	●
FGD1	Xp11.22	Mental retardation, X-linked syndromic 16	305400	●
AP1S2	Xp22.2	Mental retardation, X-linked syndromic 5	304340	●
SLC9A6	Xq26.3	Mental retardation, X-linked syndromic, Christianson type	300243	●
MECP2	Xq28	Mental retardation, X-linked syndromic, Lubs type	300260	●
UBE2A	Xq24	Mental retardation, X-linked syndromic, Nascimento-type	300860	●
ZDHHC9	Xq26.1	Mental retardation, X-linked syndromic, Raymond type	300799	●
HUWE1	Xp11.22	Mental retardation, X-linked syndromic, Turner type	300706	●
AFF2 (FMR2)	Xq28	Mental retardation, X-linked, FRAXE type	309548	●
SMS	Xp22.11	Mental retardation, X-linked, Snyder-Robinson type	309583	●
MECP2	Xq28	Mental retardation, X-linked, syndromic 13	300055	●
UPF3B	Xq24	Mental retardation, X-linked, syndromic 14	300676	●
CUL4B	Xq24	Mental retardation, X-linked, syndromic 15 (Cabezas type)	300354	●
KDM5C	Xp11.22	Mental retardation, X-linked, syndromic, Claes-Jensen type	300534	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
<i>OPHN1</i>	Xq12	Mental retardation, X-linked, with cerebellar hypoplasia and distinctive facial appearance	300486	●
<i>SOX3</i>	Xq27.1	Mental retardation, X-linked, with isolated growth hormone deficiency	300123	●
<i>ATRX</i>	Xq21.1	Mental retardation-hypotonic facies syndrome, X-linked	309580	●
<i>ARSA</i>	22q13.33	Metachromatic leukodystrophy	250100	●
<i>PSAP</i>	10q22.1	Metachromatic leukodystrophy due to SAP-b deficiency	249900	●
<i>PTH1R</i>	3p21.31	Metaphyseal chondrodysplasia, Murk Jansen type	156400	●
<i>RMRP</i>	9p13.3	Metaphyseal dysplasia without hypotrichosis	250460	●
<i>MMACHC</i>	1p34.1	Methylmalonic aciduria and homocystinuria, cbIC type	277400	●
<i>MUT</i>	6p12.3	Methylmalonic aciduria, mut(0) type	251000	●
<i>MMAA</i>	4q31.21	Methylmalonic aciduria, vitamin B12-responsive	251100	●
<i>MMAB</i>	12q24.11	Methylmalonic aciduria, vitamin B12-responsive, due to defect in synthesis of adenosylcobalamin, cbIB complementation type	251110	●
<i>MVK</i>	12q24.11	Mevalonic aciduria	610377	●
<i>STRA6</i>	15q24.1	Microphthalmia, isolated, with coloboma 8	601186	●
<i>BCOR</i>	Xp11.4	Microphthalmia, syndromic 2	300166	●
<i>STRA6</i>	15q24.1	Microphthalmia, syndromic 9	601186	●
<i>IL1RN</i>	2q13	Microvascular complications of diabetes 4	612628	●
<i>NDUFA7</i>	19p13.3	Mitochondrial Complex 1 Deficiency (MT-C1D)	252010	●
<i>NDUFA1</i>	Xq24	Mitochondrial complex I deficiency	252010	●
<i>NDUFAF4</i>	6q16.1	Mitochondrial complex I deficiency	252010	●
<i>NDUFS3</i>	11p11.2	Mitochondrial complex I deficiency	252010	●
<i>NDUFS4</i>	5q11.2	Mitochondrial complex I deficiency	252010	●
<i>NDUFS5</i>	1p34.3	Mitochondrial complex I deficiency	252010	●
<i>NDUFV1</i>	11q13.2	Mitochondrial complex I deficiency	252010	●
<i>ACAD9</i>	3q21.3	Mitochondrial complex I deficiency due to ACAD9 deficiency	611126	●
<i>BCS1L</i>	2q35	Mitochondrial complex III deficiency, nuclear type 1	124000	●
<i>UQCRB</i>	8q22.1	Mitochondrial complex III deficiency, nuclear type 3	615158	●
<i>UQCRO</i>	5q31.1	Mitochondrial complex III deficiency, nuclear type 4	615159	●
<i>COX10</i>	17p12	Mitochondrial complex IV deficiency	220110	●
<i>COX6B1</i>	19q13.12	Mitochondrial complex IV deficiency	220110	●
<i>FASTKD2</i>	2q33.3	Mitochondrial complex IV deficiency	220110	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
TYMP	22q13.33	Mitochondrial DNA depletion syndrome 1 (MNGIE type)	603041	●
TK2	16q21	Mitochondrial DNA depletion syndrome 2 (myopathic type)	609560	●
DGUOK	2p13.1	Mitochondrial DNA depletion syndrome 3 (hepatocerebral type)	251880	●
POLG	15q26.1	Mitochondrial DNA depletion syndrome 4A (Alpers type)	203700	●
POLG	15q26.1	Mitochondrial DNA depletion syndrome 4B (MNGIE type)	613662	●
SUCLA2	13q14.2	Mitochondrial DNA depletion syndrome 5 (encephalomyopathic with or without methylmalonic aciduria)	612073	●
MPV17	2p23.3	Mitochondrial DNA depletion syndrome 6 (hepatocerebral type)	256810	●
C10orf2	10q24.31	Mitochondrial DNA depletion syndrome 7 (hepatocerebral type)	271245	●
RRM2B	8q22.3	Mitochondrial DNA depletion syndrome 8A (encephalomyopathic type with renal tubulopathy)	612075	●
RRM2B	8q22.3	Mitochondrial DNA depletion syndrome 8B (MNGIE type)	612075	●
SUCLG1	2p11.2	Mitochondrial DNA depletion syndrome 9 (encephalomyopathic type with methylmalonic aciduria)	245400	●
POLG	15q26.1	Mitochondrial recessive ataxia syndrome (includes SANDO and SCAE)	607459	●
TIMM8A	Xq22.1	Mohr-Tranebjaerg syndrome	304700	●
MOCS1	6p21.2	Molybdenum cofactor deficiency A	252150	●
MOCS2	5q11.2	Molybdenum cofactor deficiency B	252160	●
ZEB2	2q22.3	Mowat-Wilson syndrome	235730	●
GNPTAB	12q23.2	Mucopolipidosis II alpha/beta	252500	●
GNPTAB	12q23.2	Mucopolipidosis III alpha/beta	252600	●
MCOLN1	19p13.2	Mucopolipidosis IV	252650	●
SGSH	17q25.3	Mucopolysaccharidosis type IIIA (Sanfilippo A)	252900	●
IDUA	4p16.3	Mucopolysaccharidosis Ih (Hurler Syndrome)	607014	●
IDUA	4p16.3	Mucopolysaccharidosis Ih/s (HURLER-SCHEIE SYNDROME)	607015	●
IDS	Xq28	Mucopolysaccharidosis II	309900	●
IDUA	4p16.3	Mucopolysaccharidosis Is (SCHEIE SYNDROME)	607016	●
NAGLU	17q21.2	Mucopolysaccharidosis type IIIB (Sanfilippo B)	252920	●
HGSNAT	8p11.21	Mucopolysaccharidosis type IIIC (Sanfilippo C)	252930	●
GLB1	3p22.3	Mucopolysaccharidosis type IVB (Morquio)	253010	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
ARSB	5q14.1	Mucopolysaccharidosis type VI (Maroteaux-Lamy)	253200	●
GUSB	7q11.21	Mucopolysaccharidosis VII	253220	●
TRIM37	17q22	Mulibrey nanism	253250	●
CHRNA1	2q31.1	Multiple pterygium syndrome, lethal type	253290	●
CHRND	2q37.1	Multiple pterygium syndrome, lethal type	253290	●
CHRNA1	2q37.1	Multiple pterygium syndrome, lethal type	253290	●
PLEC	8q24.3	Muscular dystrophy with epidermolysis bullosa simplex	226670	●
LMNA	1q22	Muscular dystrophy, congenital	613205	●
LAMA2	6q22.33	Muscular dystrophy, congenital merosin-deficient	607855	●
LAMA2	6q22.33	Muscular dystrophy, congenital, due to partial LAMA2 deficiency	607855	●
LMNA	1q22	Muscular dystrophy, limb-girdle, type 1B	159001	●
PLEC	8q24.3	Muscular dystrophy, limb-girdle, type 2Q	613723	●
SEPN1	1p36.11	Muscular dystrophy, rigid spine, 1	602771	●
POMT1	9q34.13	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 1	236670	●
POMT2	14q24.3	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 2	613150	●
POMGNT1	1p34.1	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 3	253280	●
FKTN	9q31.2	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 4	253800	●
FKRP	19q13.32	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 5	613153	●
LARGE	22q12.3	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 6	613154	●
POMT1	9q34.13	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 1	613155	●
POMT2	14q24.3	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 2	613156	●
POMGNT1	1p34.1	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 3	613151	●
LARGE	22q12.3	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 6	608840	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
<i>FKRP</i>	19q13.32	Muscular dystrophy-dystroglycanopathy (congenital with or without mental retardation), type B, 5	606612	●
<i>FKTN</i>	9q31.2	Muscular dystrophy-dystroglycanopathy (congenital without mental retardation), type B, 4	613152	●
<i>POMT1</i>	9q34.13	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 1	609308	●
<i>POMT2</i>	14q24.3	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 2	613158	●
<i>POMGNT1</i>	1p34.1	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 3	613157	●
<i>FKTN</i>	9q31.2	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 4	611588	●
<i>FKRP</i>	19q13.32	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 5	607155	●
<i>DOK7</i>	4p16.3	Myasthenic syndrome, congenital, 10	254300	●
<i>RAPSN</i>	11p11.2	Myasthenic syndrome, congenital, 11, associated with acetylcholine receptor deficiency	616326	●
<i>DPAGT1</i>	11q23.3	Myasthenic syndrome, congenital, 13, with tubular aggregates	614750	●
<i>ALG2</i>	9q22.33	Myasthenic syndrome, congenital, 14, with tubular aggregates	616228	●
<i>CHRNA1</i>	2q31.1	Myasthenic syndrome, congenital, 1A, slow-channel	601462	●
<i>CHRNA1</i>	2q31.1	Myasthenic syndrome, congenital, 1B, fast-channel	608930	●
<i>CHRND</i>	2q37.1	Myasthenic syndrome, congenital, 3A, slow-channel	616321	●
<i>CHRND</i>	2q37.1	Myasthenic syndrome, congenital, 3B, fast-channel		●
<i>CHRND</i>	2q37.1	Myasthenic syndrome, congenital, 3C, associated with acetylcholine receptor deficiency	616323	●
<i>MPL</i>	1p34.2	Myelofibrosis with myeloid metaplasia, somatic	254450	●
<i>CPT2</i>	1p32.3	Myopathy due to CPT II deficiency	255110	●
<i>SEPN1</i>	1p36.11	Myopathy, congenital, with fiber-type disproportion	255310	●
<i>STIM1</i>	11p15.4	Myopathy, tubular aggregate, 1	160565	●
<i>ORAI1</i>	12q24.31	Myopathy, tubular aggregate, 2	615883	●
<i>SCO2</i>	22q13.33	Myopia 6	608908	●
<i>COL6A2</i>	21q22.3	Myosclerosis, congenital	255600	●
<i>MTM1</i>	Xq28	Myotubular myopathy, X-linked	310400	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
NAGS	17q21.31	N-acetylglutamate synthase deficiency	237310	●
NHS	Xp22.13	Nance-Horan syndrome	302350	●
NEB	2q23.3	Nemaline myopathy 2, autosomal recessive	256030	●
CLCN5	Xp11.23- p11.22	Nephrolithiasis, type I	310468	●
NPHP1	2q13	Nephronophthisis 1, juvenile	256100	●
TMEM67	8q22.1	Nephronophthisis 11	613550	●
INVS	9q31.1	Nephronophthisis 2, infantile	602088	●
NPHP3	3q22.1	Nephronophthisis 3	604387	●
NPHP4	1p36.31	Nephronophthisis 4	606966	●
NPHS1	19q13.12	Nephrotic syndrome, type 1	256300	●
NPHS2	1q25.2	Nephrotic syndrome, type 2	600995	●
PLCE1	10q23.33	Nephrotic syndrome, type 3	610725	●
LAMB2	3p21.31	Nephrotic syndrome, type 5, with or without ocular abnormalities	614199	●
FOLR1	11q13.4	Neurodegeneration due to cerebral folate transport deficiency	613068	●
PLA2G6	22q13.1	Neurodegeneration with brain iron accumulation 2B	610217	●
IGHMBP2	11q13.3	Neuronopathy, distal hereditary motor, type VI	604320	●
MPZ	1q23.3	Neuropathy, congenital hypomyelinating	605253	●
EGR2	10q21.3	Neuropathy, congenital hypomyelinating, 1	605253	●
PMP22	17p12	Neuropathy, inflammatory demyelinating	139393	●
PMP22	17p12	Neuropathy, recurrent, with pressure palsies	162500	●
HAX1	1q21.3	Neutropenia, severe congenital 3, autosomal recessive	610738	●
G6PC3	17q21.31	Neutropenia, severe congenital 4, autosomal recessive	612541	●
WAS	Xp11.23	Neutropenia, severe congenital, X-linked	300299	●
SMPD1	11p15.4	Niemann-Pick disease, type A	257200	●
SMPD1	11p15.4	Niemann-Pick disease, type B	607616	●
NPC1	18q11.2	Niemann-Pick disease, type C1	257220	●
NPC2	14q24.3	Niemann-pick disease, type C2	607625	●
NPC1	18q11.2	Niemann-Pick disease, type D	257220	●
NBN	8q21.3	Nijmegen breakage syndrome	251260	●
CASK	Xp11.4	Non-Hodgkin lymphoma, somatic	605027	●
NDP	Xp11.3	Norrie disease	310600	●
NXF5	Xq22.1	Nuclear RNA export factor 5	300319	●
ENPP1	6q23.2	Obesity, susceptibility to	601665	●
ATP7A	Xq21.1	Occipital horn syndrome	304150	●
ALPL	1p36.12	Odontohypophosphatasia	146300	●
WNT10A	2q35	Odontoonychodermal dysplasia	257980	●
MED12	Xq13.1	Ohdo syndrome, X-linked	300895	●
MBTPS2	Xp22.12- p22.11	Olmsted syndrome, X-linked	300918	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
<i>DCLRE1C</i>	10p13	Omenn syndrome	603554	●
<i>RAG1</i>	11p12	Omenn syndrome	603554	●
<i>RAG2</i>	11p12	Omenn syndrome	603554	●
<i>MID1</i>	Xp22.2	Opitz GBBB syndrome, type I	300000	●
<i>MED12</i>	Xq13.1	Opitz-Kaveggia syndrome	305450	●
<i>OPA3</i>	19q13.32	Optic atrophy 3 with cataract	165300	●
<i>OTC</i>	Xp11.4	Ornithine transcarbamylase deficiency	311250	●
<i>OFD1</i>	Xp22.2	Orofaciodigital syndrome I	311200	●
<i>COL1A1</i>	17q21.33	Osteogenesis imperfecta, type I	166200	●
<i>COL1A1</i>	17q21.33	Osteogenesis imperfecta, type II	166210	●
<i>COL1A2</i>	7q21.3	Osteogenesis imperfecta, type II	166210	●
<i>COL1A1</i>	17q21.33	Osteogenesis imperfecta, type III	259420	●
<i>COL1A2</i>	7q21.3	Osteogenesis imperfecta, type III	259420	●
<i>COL1A1</i>	17q21.33	Osteogenesis imperfecta, type IV	166220	●
<i>COL1A2</i>	7q21.3	Osteogenesis imperfecta, type IV	166220	●
<i>CRTAP</i>	3p22.3	Osteogenesis imperfecta, type VII	610682	●
<i>LEPRE1</i>	1p34.2	Osteogenesis imperfecta, type VIII	610915	●
<i>CLCN7</i>	16p13.3	Osteopetrosis, autosomal dominant 2	166600	●
<i>TCIRG1</i>	11q13.2	Osteopetrosis, autosomal recessive 1	259700	●
<i>CA2</i>	8q21.2	Osteopetrosis, autosomal recessive 3, with renal tubular acidosis	259730	●
<i>CLCN7</i>	16p13.3	Osteopetrosis, autosomal recessive 4	611490	●
<i>OSTM1</i>	6q21	Osteopetrosis, autosomal recessive 5	259720	●
<i>VDR</i>	12q13.11	Osteoporosis, involutional	166710	●
<i>COL1A2</i>	7q21.3	Osteoporosis, postmenopausal	166710	●
<i>TNFRSF11B</i>	8q24.12	Paget disease of bone 5, juvenile-onset	239000	●
<i>SOX3</i>	Xq27.1	Panhypopituitarism, X-linked	312000	●
<i>PLA2G6</i>	22q13.1	Parkinson disease 14, autosomal recessive	612953	●
<i>ARX</i>	Xp21.3	Partington syndrome	309510	●
<i>LBR</i>	1q42.12	Pelger-Huet anomaly	169400	●
<i>PLP1</i>	Xq22.2	Pelizaeus-Merzbacher disease	312080	●
<i>ACOX1</i>	17q25.1	Peroxisomal acyl-CoA oxidase deficiency	264470	●
<i>PEX13</i>	2p16.1	Peroxisome biogenesis disorder 11 B	614885	●
<i>PEX13</i>	2p16.1	Peroxisome biogenesis disorder 11A (Zellweger)	614883	●
<i>PEX1</i>	7q21.2	Peroxisome biogenesis disorder 1A (Zellweger)	214100	●
<i>PEX1</i>	7q21.2	Peroxisome biogenesis disorder 1B (NALD/IRD)	601539	●
<i>PEX12</i>	17q12	Peroxisome biogenesis disorder 3A (Zellweger)	614859	●
<i>PEX12</i>	17q12	Peroxisome biogenesis disorder 3B	266510	●
<i>PEX10</i>	1p36.32	Peroxisome biogenesis disorder 6A (Zellweger)	614870	●
<i>PEX10</i>	1p36.32	Peroxisome biogenesis disorder 6B	614871	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
PEX26	22q11.21	Peroxisome biogenesis disorder 7A (Zellweger)	614872	●
PEX26	22q11.21	Peroxisome biogenesis disorder 7B	614873	●
PEX5	3q26.33	Peroxisome biogenesis disorder 7B	611058	●
PEX7	6q23.3	Peroxisome biogenesis disorder 9B	614879	●
HSD17B4	5q23.1	Perrault syndrome 1	233400	●
C10orf2	10q24.31	Perrault syndrome 5		●
PAH	12q23.2	Phenylketonuria	261600	●
PRPS1	Xq22.3	Phosphoribosylpyrophosphate synthetase superactivity	300661	●
LAMB2	3p21.31	Pierson syndrome	609049	●
TCF4	18q21.2	Pitt-Hopkins syndrome	610954	●
POU1F1	3p11.2	Pituitary hormone deficiency, combined, 1	613038	●
PROP1	5q35.3	Pituitary hormone deficiency, combined, 2	262600	●
LHX3	9q34.3	Pituitary hormone deficiency, combined, 3	221750	●
HESX1	3p14.3	Pituitary hormone deficiency, combined, 5	182230	●
PLG	6q26	Plasminogen deficiency, type I	217090	●
PKHD1	6p12.3-p12.2	Polycystic kidney and hepatic disease	263200	●
GBE1	3p12.2	Polyglucosan body disease, adult form	263570	●
TSEN54	17q25.1	Pontocerebellar hypoplasia type 2A	277470	●
TSEN54	17q25.1	Pontocerebellar hypoplasia type 4	225753	●
TSEN54	17q25.1	Pontocerebellar hypoplasia type 5	610204	●
MVK	12q24.11	Porokeratosis 3, disseminated superficial actinic	175900	●
UROS	10q26.1-q26.2	Porphyria, congenital erythropoietic	263700	●
LHCGR	2p16.3	Precocious puberty, male	176410	●
NR5A1	9q33.3	Premature ovarian failure 7	612964	●
ALS2	2q33.1	Primary lateral sclerosis, juvenile	606353	●
POLG	15q26.1	Progressive external ophthalmoplegia, autosomal recessive	258450	●
CFP	Xp11.23	Properdin deficiency, X-linked	312060	●
PCCA	13q32.3	Propionicacidemia	606054	●
PCCB	3q22.3	Propionicacidemia	606054	●
CLCN5	Xp11.23-p11.22	Proteinuria, low molecular weight, with hypercalciuric nephrocalcinosis	308990	●
ARX	Xp21.3	Proud syndrome	300004	●
HSD17B3	9q22.32	Pseudohermaphroditism, male, with gynecomastia	264300	●
SCNN1A	12p13.31	Pseudohypoaldosteronism, type I	264350	●
SCNN1B	16p12.2	Pseudohypoaldosteronism, type I	264350	●
SCNN1G	16p12.2	Pseudohypoaldosteronism, type I	264350	●
SRD5A2	2p23.1	Pseudovaginal perineoscrotal hypospadias	264600	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
CTSK	1q21.3	Pycnodysostosis	265800	●
MYD88	3p22.2	Pyogenic bacterial infections, recurrent, due to MYD88 deficiency	612260	●
PNPO	17q21.32	Pyridoxamine 5'-phosphate oxidase deficiency	610090	●
PC	11q13.2	Pyruvate carboxylase deficiency	266150	●
PDHA1	Xp22.12	Pyruvate dehydrogenase E1-alpha deficiency	312170	●
PDP1	8q22.1	Pyruvate dehydrogenase phosphatase deficiency	608782	●
PKLR	1q22	Pyruvate kinase deficiency	266200	●
INSR	19p13.2	Rabson-Mendenhall syndrome	262190	●
FAM20C	7p22.3	Raine syndrome	259775	●
NPHP3	3q22.1	Renal-hepatic-pancreatic dysplasia 1	208540	●
PQBP1	Xp11.23	Renpenning syndrome	309500	●
ZMPSTE24	1p34.2	Restrictive dermopathy, lethal	275210	●
LMNA	1q22	Restrictive dermopathy, lethal	275210	●
OFD1	Xp22.2	Retinitis pigmentosa 23	300424	●
USH2A	1q41	Retinitis pigmentosa 39	613809	●
CLRN1	3q25.1	Retinitis pigmentosa 61	614180	●
MECP2	Xq28	Rett syndrome	312750	●
FOXG1	14q12	Rett syndrome, congenital variant	613454	●
MECP2	Xq28	Rett syndrome, preserved speech variant	312750	●
LBR	1q42.12	Reynolds syndrome	613471	●
PEX7	6q23.3	Rhizomelic chondrodysplasia punctata, type 1	215100	●
AGPS	2q31.2	Rhizomelic chondrodysplasia punctata, type 3	600121	●
VDR	12q13.11	Rickets, vitamin D-resistant, type IIA	277440	●
ESCO2	8p21.1	Roberts syndrome	268300	●
MPZ	1q23.3	Roussy-Levy syndrome	180800	●
PMP22	17p12	Roussy-Levy syndrome	180800	●
SLC17A5	6q13	Salla disease	604369	●
HEXB	5q13.3	Sandhoff disease, infantile, juvenile, and adult forms	268800	●
ESCO2	8p21.1	SC phocomelia syndrome	269000	●
SLC35D1	1p31.3	Schneckenbecken dysplasia	269250	●
WNT10A	2q35	Schopf-Schulz-Passarge syndrome	224750	●
HSPG2	1p36.12	Schwartz-Jampel syndrome, type 1	255800	●
JAK3	19p13.11	SCID, autosomal recessive, T-negative/B-positive type	600802	●
ATR	3q23	Seckel syndrome 1	210600	●
TH	11p15.5	Segawa syndrome, recessive	605407	●
NPHP4	1p36.31	Senior-Loken syndrome 4	606996	●
IQCB1	3q13.33	Senior-Loken syndrome 5	609254	●
CEP290	12q21.32	Senior-Loken syndrome 6	610189	●
NPHP1	2q13	Senior-Loken syndrome-1	266900	●
HESX1	3p14.3	Septooptic dysplasia	182230	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
ADA	20q13.12	Severe combined immunodeficiency due to ADA deficiency	102700	●
NHEJ1	2q35	Severe combined immunodeficiency with microcephaly, growth retardation, and sensitivity to ionizing radiation	611291	●
DCLRE1C	10p13	Severe combined immunodeficiency, Athabaskan type	602450	●
RAG1	11p12	Severe combined immunodeficiency, B cell-negative	601457	●
RAG2	11p12	Severe combined immunodeficiency, B cell-negative	601457	●
IL2R	Xq13.1	Severe combined immunodeficiency, X-linked	300400	●
IFT80	3q25.33	Short-rib thoracic dysplasia 2 with or without polydactyly	611263	●
DYNC2H1	11q22.3	Short-rib thoracic dysplasia 3 with or without polydactyly	613091	●
SBDS	7q11.21	Shwachman-Bodian-Diamond syndrome	260400	●
SLC17A5	6q13	Sialic acid storage disorder, infantile	269920	●
NEU1	6p21.33	Sialidosis, type I	256550	●
NEU1	6p21.33	Sialidosis, type II	256550	●
HBB	11p15.4	Sickle cell anemia	603903	●
GPC3	Xq26.2	Simpson-Golabi-Behmel syndrome, type 1	312870	●
OFD1	Xp22.2	Simpson-Golabi-Behmel syndrome, type 2	300209	●
ALDH3A2	17p11.2	Sjogren-Larsson syndrome	270200	●
DSP	6p24.3	Skin fragility-woolly hair syndrome	607655	●
DHCR7	11q13.4	Smith-Lemli-Opitz syndrome	270400	●
NSD1	5q35.2-q35.3	Sotos syndrome 1	117550	●
SACS	13q12.12	Spastic ataxia, Charlevoix-Saguenay type	270550	●
ALS2	2q33.1	Spastic paralysis, infantile onset ascending	607225	●
PLP1	Xq22.2	Spastic paraplegia 2, X-linked	312920	●
GJC2	1q42.13	Spastic paraplegia 44, autosomal recessive	613206	●
NR5A1	9q33.3	Spermatogenic failure 8	613957	●
AR	Xq12	Spinal and bulbar muscular atrophy of Kennedy	313200	●
PLEKHG5	1p36.31	Spinal muscular atrophy, distal, autosomal recessive, 4	611067	●
ATP7A	Xq21.1	Spinal muscular atrophy, distal, X-linked 3	300489	●
UBA1	Xp11.23	Spinal muscular atrophy, X-linked 2, infantile	301830	●
SMN1	5q13.2	Spinal muscular atrophy-1	253300	●
SMN1	5q13.2	Spinal muscular atrophy-2	253550	●
SMN1	5q13.2	Spinal muscular atrophy-3	253400	●
SMN1	5q13.2	Spinal muscular atrophy-4	271150	●
TPP1	11p15.4	Spinocerebellar ataxia, autosomal recessive 7	609270	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
<i>DLL3</i>	19q13.2	Spondylocostal dysostosis 1, autosomal recessive	277300	●
<i>FAS</i>	10q23.31	Squamous cell carcinoma, burn scar-related, somatic		●
<i>SHROOM4</i>	Xp11.22	Stocco dos Santos X-linked mental retardation syndrome	300434	●
<i>STIM1</i>	11p15.4	Stormorken syndrome	185070	●
<i>NUP62</i>	19q13.33	Striatonigral degeneration, infantile	271930	●
<i>LIFR</i>	5p13.1	Stuve-Wiedemann syndrome/Schwartz-Jampel type 2 syndrome	601559	●
<i>DCX</i>	Xq23	Subcortical laminal heteropia, X-linked	300067	●
<i>ALDH5A1</i>	6p22.3	Succinic semialdehyde dehydrogenase deficiency	271980	●
<i>OXCT1</i>	5p13.1	Succinyl CoA:3-oxoacid CoA transferase deficiency	245050	●
<i>TSPYL1</i>	6q22.1	Sudden infant death with dysgenesis of the testes syndrome	608800	●
<i>SUOX</i>	12q13.2	Sulfite oxidase deficiency	272300	●
<i>SFTPB</i>	2p11.2	Surfactant metabolism dysfunction, pulmonary, 1	265120	●
<i>SFTPC</i>	8p21.3	Surfactant metabolism dysfunction, pulmonary, 2	610913	●
<i>ABCA3</i>	16p13.3	Surfactant metabolism dysfunction, pulmonary, 3	610921	●
<i>TREX1</i>	3p21.31	Systemic lupus erythematosus, susceptibility to	152700	●
<i>HEXA</i>	15q23	Tay-Sachs disease	272800	●
<i>FOXN1</i>	17q11.2	T-cell immunodeficiency, congenital alopecia, and nail dystrophy	601705	●
<i>WNT3</i>	17q21.31	Tetra-amelia syndrome	273395	●
<i>HBA1</i>	16p13.3	Thalassemias, alpha-	604131	●
<i>HBB</i>	11p15.4	Thalassemias, beta-	613985	●
<i>MPL</i>	1p34.2	Thrombocythemia 2	601977	●
<i>MPL</i>	1p34.2	Thrombocytopenia, congenital amegakaryocytic	604498	●
<i>WAS</i>	Xp11.23	Thrombocytopenia, X-linked	313900	●
<i>WAS</i>	Xp11.23	Thrombocytopenia, X-linked, intermittent	313900	●
<i>F9</i>	Xq27.1	Thrombophilia, X-linked, due to factor IX defect	300807	●
<i>CBS</i>	21q22.3	Thrombosis, hyperhomocysteinemic	236200	●
<i>ADAMTS13</i>	9q34.2	Thrombotic thrombocytopenic purpura, familial	274150	●
<i>COL7A1</i>	3p21.31	Toenail dystrophy, isolated	607523	●
<i>WNT10A</i>	2q35	Tooth agenesis, selective, 4	150400	●
<i>EDA</i>	Xq13.1	Tooth agenesis, selective, X-linked 1	313500	●
<i>COL7A1</i>	3p21.31	Transient bullous of the newborn	131705	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
ERCC2	19q13.32	Trichothiodystrophy 1, photosensitive	601675	●
ERCC3	2q14.3	Trichothiodystrophy 2, photosensitive	616390	●
GTF2H5	6q25.3	Trichothiodystrophy 3, photosensitive	616395	●
HADHA	2p23.3	Trifunctional protein deficiency	609015	●
HADHB	2p23.3	Trifunctional protein deficiency	609015	●
FAH	15q25.1	Tyrosinemia, type I	276700	●
TAT	16q22.2	Tyrosinemia, type II	276600	●
HP	12q24.31	Tyrosinemia, type III	276710	●
COL6A1	21q22.3	Ullrich congenital muscular dystrophy	254090	●
COL6A2	21q22.3	Ullrich congenital muscular dystrophy	254090	●
COL6A3	2q37.3	Ullrich congenital muscular dystrophy	254090	●
WNT7A	3p25.1	Ulna and fibula, absence of, with severe limb deficiency	276820	●
MYO7A	11q13.5	Usher syndrome, type 1B	276900	●
USH1C	11p15.1	Usher syndrome, type 1C	276904	●
CDH23	10q22.1	Usher syndrome, type 1D	601067	●
CDH23	10q22.1	Usher syndrome, type 1D/F digenic	601067	●
USH1G	17q25.1	Usher syndrome, type 1G	606943	●
USH2A	1q41	Usher syndrome, type 2A	276901	●
GPR98	5q14.3	Usher syndrome, type 2C	605472	●
GPR98	5q14.3	Usher syndrome, type 2C, GPR98/PDZD7 digenic	605472	●
CLRN1	3q25.1	Usher syndrome, type 3A	276902	●
ERCC6	10q11.23	UV-sensitive syndrome 1	600630	●
ERCC8	5q12.1	UV-sensitive syndrome 2	614621	●
ZIC3	Xq26.3	VACTERL association, X-linked	314390	●
TREX1	3p21.31	Vasculopathy, retinal, with cerebral leukodystrophy	192315	●
PTEN	10q23.31	VATER association with macrocephaly and ventriculomegaly	276950	●
CYP27B1	12q14.1	Vitamin D-dependent rickets, type I	264700	●
ACADL	17p13.1	VLCAD deficiency	201475	●
ACADVL	17p13.1	VLCAD deficiency	201475	●
GJB2	13q12.11	Vohwinkel syndrome	124500	●
EDNRB	13q22.3	Waardenburg syndrome, type 4A	277580	●
EDN3	20q13.32	Waardenburg syndrome, type 4B	613265	●
RAB39B	Xq28	Waisman syndrome	311510	●
RAB3GAP1	2q21.3	Warburg micro syndrome 1	600118	●
RAB3GAP2	1q41	Warburg micro syndrome 2	614225	●
F9	Xq27.1	Warfarin sensitivity	122700	●
EVC	4p16.2	Weyers acrodental dysostosis	193530	●
EVC2	4p16.2	Weyers acrofacial dysostosis	193530	●
GPC3	Xq26.2	Wilms tumor, somatic	194070	●
ATP7B	13q14.3	Wilson disease	277900	●
WAS	Xp11.23	Wiskott-Aldrich syndrome	301000	●

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM	
<i>EIF2AK3</i>	2p11.2	Wolcott-Rallison syndrome	226980	●
<i>ATP6V0A2</i>	12q24.31	Wrinkly skin syndrome	278250	●
<i>XPA</i>	9q22.33	Xeroderma pigmentosum, group A	278700	●
<i>ERCC3</i>	2q14.3	Xeroderma pigmentosum, group B	610651	●
<i>XPC</i>	3p25.1	Xeroderma pigmentosum, group C	278720	●
<i>ERCC2</i>	19q13.32	Xeroderma pigmentosum, group D	278730	●
<i>DDB2</i>	11p11.2	Xeroderma pigmentosum, group E, DDB-negative subtype	278740	●
<i>ERCC4</i>	16p13.12	Xeroderma pigmentosum, group F	278760	●
<i>ERCC5</i>	3q33.1	Xeroderma pigmentosum, group G	278780	●
<i>ERCC5</i>	3q33.1	Xeroderma pigmentosum, group G/Cockayne syndrome	278780	●
<i>ERCC4</i>	16p13.12	Xeroderma pigmentosum, type F/Cockayne syndrome	278760	●
<i>ERCC4</i>	16p13.12	XFE progeroid syndrome	610965	●
<i>ZNF41</i>	Xp11.23	Zinc Finger Protein 41	314995	●
<i>ZNF674</i>	Xp11.3-p11.2	Zinc Finger Protein 674	300573	●