

COMPATIBILITY GENETIC TEST

13 NEW RECESSIVE DISEASES

detected by the Genetic Compatibility Test (GCT), from 1st of July 2020

<i>SERPINA1</i>	14q32.13	Alpha-1-antitrypsin deficiency	613490
<i>SPG7</i>	16q24.3	Autosomal recessive spastic paraplegia type 7	607259
<i>OCA2</i>	15q12	Oculocutaneous albinism type 2	203200
<i>SLC26A4</i>	7q22.3	Autosomal recessive non-syndromic sensorineural deafness type DFNB/Pendred syndrome	274600
<i>CLCN1</i>	7q34	Thomsen and Becker disease	160800
<i>TYR</i>	11q14.3	Oculocutaneous albinism type 1A	203100
<i>CAPN3</i>	15q15.1	Calpain-3-related limb-girdle muscular dystrophy R1	253600
<i>CRB1</i>	17p13.1	Leber congenital amaurosis	204000
<i>GALNS</i>	16q24.3	Mucopolysaccharidosis type 4A	253000
<i>OTOF</i>	2p23.3	Autosomal recessive non-syndromic sensorineural deafness type DFNB	601071
<i>SAG</i>	2q37.1	Retinitis pigmentosa 47	613758
<i>TMPRSS3</i>	21q22.3	Deafness, autosomal recessive 8/10	601072
<i>TSHR</i>	14q31.1	Hyperthyroidism	603373

GENE	LOCUS	DISEASE	OMIM
<i>CYP17A1</i>	10q24.32	17,20-lyase deficiency, isolated	202110
<i>CYP17A1</i>	10q24.32	17-alpha-hydroxylase/17,20-lyase deficiency	202110
<i>HSD17B10</i>	Xp11.22	17-beta-hydroxysteroid dehydrogenase X deficiency	300438
<i>HSD3B2</i>	1p12	3-beta-hydroxysteroid dehydrogenase, type II, deficiency	201810
<i>HADH</i>	4q25	3-hydroxyacyl-CoA dehydrogenase deficiency	231530
<i>HIBCH</i>	2q32.2	3-hydroxyisobutryl-CoA hydrolase deficiency	250620
<i>HIBCH</i>	2q32.2	3-hydroxyisobutryl-CoA hydrolase deficiency	250620
<i>AUH</i>	9q22.31	3-methylglutaconic aciduria, type I	250950
<i>DNAJC19</i>	3q26.33	3-methylglutaconic aciduria, type V	610198
<i>NR5A1</i>	9q33.3	46XY sex reversal 3	612965
<i>FGD1</i>	Xp11.22	Aarskog-Scott syndrome	305400
<i>EDNRB</i>	13q22.3	ABCD syndrome	600501
<i>AAAS</i>	12q13.13	Achalasia-addisonianism-alacrimia syndrome	231550
<i>SLC26A2</i>	5q32	Achondrogenesis Ib	600972
<i>ACADM</i>	1p31.1	Acyl-CoA dehydrogenase, medium chain, deficiency of	201450
<i>ADA</i>	20q13.12	Adenosine deaminase deficiency, partial	102700
<i>PKLR</i>	1q22	Adenosine triphosphate, elevated, of erythrocytes	102900

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GENE	LOCUS	DISEASE	OMIM
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
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

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GENE	LOCUS	DISEASE	OMIM
<i>UBE3A</i>	15q11.2	Angelman syndrome	105830
<i>UBE3A</i>	15q11.2	Angelman syndrome	105830
<i>CDKL5</i>	Xp22.13	Angelman syndrome-like	105830
<i>POR</i>	7q11.23	Antley-Bixler syndrome with genital anomalies and disordered steroidogenesis	201750
<i>NBN</i>	8q21.3	Aplastic anemia	609135
<i>HSD11B2</i>	16q22.1	Apparent mineralocorticoid excess	218030
<i>ASL</i>	7q11.21	Argininosuccinic aciduria	207900
<i>DDC</i>	7p12.1	Aromatic L-amino acid decarboxylase deficiency	608643
<i>DSP</i>	6p24.3	Arrhythmogenic right ventricular dysplasia 8	607450
<i>ENPP1</i>	6q23.2	Arterial calcification, generalized, of infancy, 1	208000
<i>GLE1</i>	9q34.11	Arthrogryposis, lethal, with anterior horn cell disease	611890
<i>VPS33B</i>	15q26.1	Arthrogryposis, renal dysfunction, and cholestasis 1	208085
<i>VIPAR</i>	14q24.3	Arthrogryposis, renal dysfunction, and cholestasis 2	613404
<i>PRPS1</i>	Xq22.3	Arts syndrome	301835
<i>NLGN4X</i>	Xp22.32-p22.31	Asperger syndrome susceptibility, X-linked 2	300497
<i>TTPA</i>	8q12.3	Ataxia with isolated vitamin E deficiency	277460
<i>APTX</i>	9p21.1	Ataxia, early-onset, with oculomotor apraxia and hypoalbuminemia	208920
<i>ATM</i>	11q22.3	Ataxia-telangiectasia	208900
<i>SLC26A2</i>	5q32	Atelosteogenesis II	256050
<i>NLGN4X</i>	Xp22.32-p22.31	Autism susceptibility, X-linked 2	300495
<i>MECP2</i>	Xq28	Autism susceptibility, X-linked 3	300496
<i>RPL10</i>	Xq28	Autism, susceptibility to, X-linked 5	300847
<i>FAS</i>	10q23.31	Autoimmune lymphoproliferative syndrome	601859
<i>FAS</i>	10q23.31	Autoimmune lymphoproliferative syndrome, type IA	601859
<i>FASLG</i>	1q24.3	Autoimmune lymphoproliferative syndrome, type IB	601859
<i>AIRE</i>	21q22.3	Autoimmune polyendocrinopathy syndrome , type I, with or without reversible metaphyseal dysplasia	240300
<i>PTEN</i>	10q23.31	Bannayan-Riley-Ruvalcaba syndrome	153480
<i>MKS1</i>	17q22	Bardet-Biedl syndrome 13	615990
<i>CEP290</i>	12q21.32	Bardet-Biedl syndrome 14	615991
<i>TMEM67</i>	8q22.1	Bardet-Biedl syndrome 14, modifier of	209900
<i>TAZ</i>	Xq28	Barth syndrome	302060
<i>GJB2</i>	13q12.11	Bart-Pumphrey syndrome	149200
<i>SLC12A1</i>	15q21.1	Bartter syndrome, type 1	601678

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GENE	LOCUS	DISEASE	OMIM
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
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

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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
MFSD8	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
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

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GENE	LOCUS	DISEASE	OMIM
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
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

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GENE	LOCUS	DISEASE	OMIM
<i>ALG12</i>	22q13.33	Congenital disorder of glycosylation, type Ig	607143
<i>ALG8</i>	11q14.1	Congenital disorder of glycosylation, type Ih	608104
<i>ALG2</i>	9q22.33	Congenital disorder of glycosylation, type Ii	607906
<i>MGAT2</i>	14q21.3	Congenital disorder of glycosylation, type IIa	212066
<i>MOGS</i>	2p13.1	Congenital disorder of glycosylation, type IIb	606056
<i>SLC35C1</i>	11p11.2	Congenital disorder of glycosylation, type IIc	266265
<i>B4GALT1</i>	9p21.1	Congenital disorder of glycosylation, type IId	607091
<i>COG7</i>	16p12.2	Congenital disorder of glycosylation, type IIe	608779
<i>SLC35A1</i>	6q15	Congenital disorder of glycosylation, type IIf	603585
<i>COG1</i>	17q25.1	Congenital disorder of glycosylation, type IIg	611209
<i>COG8</i>	16q22.1	Congenital disorder of glycosylation, type IIh	611182
<i>DPAGT1</i>	11q23.3	Congenital disorder of glycosylation, type Ij	608093
<i>ALG1</i>	16p13.3	Congenital disorder of glycosylation, type Ik	
<i>ALG9</i>	11q23.1	Congenital disorder of glycosylation, type Il	608776
<i>DOLK</i>	9q34.11	Congenital disorder of glycosylation, type Im	610768
<i>RFT1</i>	3p21.1	Congenital disorder of glycosylation, type In	612015
<i>SRD5A3</i>	4q12	Congenital disorder of glycosylation, type Iq	612379
<i>ZIC3</i>	Xq26.3	Congenital heart defects, nonsyndromic, 1, X-linked	306955
<i>SLC4A11</i>	20p13	Corneal dystrophy, Fuchs endothelial, 4	613268
<i>SLC4A11</i>	20p13	Corneal endothelial dystrophy 2, autosomal recessive	217700
<i>SLC4A11</i>	20p13	Corneal endothelial dystrophy and perceptive deafness	217400
<i>L1CAM</i>	Xq28	Corpus callosum, partial agenesis of	304100
<i>PTEN</i>	10q23.31	Cowden syndrome 1	158350
<i>CPT1A</i>	11q13.3	CPT deficiency, hepatic, type IA	255120
<i>CPT2</i>	1p32.3	CPT deficiency, hepatic, type II	600649
<i>CPT2</i>	1p32.3	CPT II deficiency, lethal neonatal	608836
<i>EFNB1</i>	Xq13.1	Craniofrontonasal dysplasia	304110
<i>L1CAM</i>	Xq28	CRASH syndrome	303350
<i>ATR</i>	3q23	Cutaneous telangiectasia and cancer syndrome, familial	614564
<i>FBLN5</i>	14q32.12	Cutis laxa, autosomal recessive, type IA	219100
<i>EFEMP2</i>	11q13.1	Cutis laxa, autosomal recessive, type IB	614437
<i>ATP6V0A2</i>	12q24.31	Cutis laxa, autosomal recessive, type IIA	219200
<i>CFTR</i>	7q31.2	Cystic fibrosis	219700
<i>CTNS</i>	17p13.2	Cystinosis, atypical nephropathic	219800
<i>CTNS</i>	17p13.2	Cystinosis, late-onset juvenile or adolescent nephropathic	219900
<i>CTNS</i>	17p13.2	Cystinosis, nephropathic	219800
<i>CTNS</i>	17p13.2	Cystinosis, ocular nonnephropathic	219750
<i>HSD17B4</i>	5q23.1	D-bifunctional protein deficiency	261515
<i>SLC26A2</i>	5q32	De la Chapelle dysplasia	256050

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GENE	LOCUS	DISEASE	OMIM
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
INSR	19p13.2	Diabetes mellitus, insulin-resistant, with acanthosis nigricans	610549
ABCC8	11p15.1	Diabetes mellitus, noninsulin-dependent	125853
ENPP1	6q23.2	Diabetes mellitus, non-insulin-dependent, susceptibility to	125853
ABCC8	11p15.1	Diabetes mellitus, permanent neonatal	606176
ABCC8	11p15.1	Diabetes mellitus, transient neonatal 2	610374
FOXP3	Xp11.23	Diabetes mellitus, type I, susceptibility to	222100
NEUROG3	10q22.1	Diarrhea 4, malabsorptive, congenital	610370
SLC26A2	5q32	Diastrophic dysplasia	222600
SLC26A2	5q32	Diastrophic dysplasia, broad bone-platyspondylic variant	222600
DLD	31.1	Dihydrolipoamide dehydrogenase deficiency	246900
DPYD	1p21.3	Dihydropyrimidine dehydrogenase deficiency	274270
DSP	6p24.3	Dilated cardiomyopathy with woolly hair, keratoderma, and tooth agenesis	615821
POR	7q11.23	Disordered steroidogenesis due to cytochrome P450 oxidoreductase	613571
LRP2	2q31.1	Donnai-Barrow syndrome	222448
DMD	Xp21.2-p21.1	Duchenne muscular dystrophy	310200
G6PC3	17q21.31	Dursun syndrome	612541
IKBKAP	9q31.3	Dysautonomia, familial	223900
FGA	4q31.3	Dysfibrinogenemia, congenital	616004
DKC1	Xq28	Dyskeratosis congenita, X-linked	305000
PLG	6q26	Dysplasminogenemia	217090

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GENE	LOCUS	DISEASE	OMIM
<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
<i>LMNA</i>	1q22	Emery-Dreifuss muscular dystrophy 3, AR	181350
<i>MECP2</i>	Xq28	Encephalopathy, neonatal severe	300673
<i>COL7A1</i>	3p21.31	Epidermolysis bullosa dystrophica, AR	226600
<i>ITGB4</i>	17q25.1	Epidermolysis bullosa of hands and feet	131800
<i>COL7A1</i>	3p21.31	Epidermolysis bullosa pruriginosa	604129
<i>PLEC</i>	8q24.3	Epidermolysis bullosa simplex with pyloric atresia	612138
<i>PLEC</i>	8q24.3	Epidermolysis bullosa simplex, Ogna type	131950
<i>LAMA3</i>	18q11.2	Epidermolysis bullosa, generalized atrophic benign	226650
<i>LAMA3</i>	18q11.2	Epidermolysis bullosa, junctional, Herlitz type	226700
<i>LAMB3</i>	1q32.2	Epidermolysis bullosa, junctional, Herlitz type	226700
<i>LAMC2</i>	1q25.3	Epidermolysis bullosa, junctional, Herlitz type	226700
<i>COL17A1</i>	10q24.3-q25.1	Epidermolysis bullosa, junctional, non-Herlitz type	226650
<i>ITGB4</i>	17q25.1	Epidermolysis bullosa, junctional, non-Herlitz type	226650
<i>LAMB3</i>	1q32.2	Epidermolysis bullosa, junctional, non-Herlitz type	226650
<i>LAMC2</i>	1q25.3	Epidermolysis bullosa, junctional, non-Herlitz type	226650
<i>ITGB4</i>	17q25.1	Epidermolysis bullosa, junctional, with pyloric atresia	226730
<i>ITGA6</i>	2q31.1	Epidermolysis bullosa, junctional, with pyloric stenosis	226730
<i>DSP</i>	6p24.3	Epidermolysis bullosa, lethal acantholytic	609638

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
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
CHRNG	2q37.1	Escobar syndrome	265000
ETHE1	19q13.31	Ethylmalonic encephalopathy	602473
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

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
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
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	Griselli syndrome, type 1	214450
RAB27A	15q21.3	Griselli syndrome, type 2	607624
HESX1	3p14.3	Growth hormone deficiency with pituitary anomalies	182230
PANK2	20p13	HARP syndrome	607236
HP	12q24.31	Hawkinsuria	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

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>STXBP2</i>	19p13.2	Hemophagocytic lymphohistiocytosis, familial, 5	613101
<i>F8</i>	Xq28	Hemophilia A	306700
<i>F9</i>	Xq27.1	Hemophilia B	306900
<i>SCO1</i>	17p13.1	Hepatic failure, early onset, and neurologic disorder	603644
<i>SP110</i>	2q37.1	Hepatic venoocclusive disease with immunodeficiency	235550
<i>HBB</i>	11p15.4	Hereditary persistence of fetal hemoglobin	141749
<i>AP3B1</i>	5q14.1	Hermansky-Pudlak syndrome 2	608233
<i>PLDN</i>	15q21.1	Hermansky-pudlak syndrome 9	614171
<i>UNC93B1</i>	11q13.2	Herpes simplex encephalitis, susceptibility to, 1	610551
<i>TLR3</i>	4q35.1	Herpes simplex encephalitis, susceptibility to, 2	613002
<i>ZIC3</i>	Xq26.3	Heterotaxy, visceral, 1, X-linked	306955
<i>HEXA</i>	15q23	Hex A pseudodeficiency	272800
<i>TLR3</i>	4q35.1	HIV1 infection, resistance to	609423
<i>HMGCL</i>	1p36.11	HMG-CoA lyase deficiency	246450
<i>HLCS</i>	21q22.13	Holocarboxylase synthetase deficiency	253270
<i>CBS</i>	21q22.3	Homocystinuria, B6-responsive and nonresponsive types	236200
<i>LMNA</i>	1q22	Hutchinson-Gilford progeria	176670
<i>ANTXR2</i>	4q21.21	Hyaline fibromatosis syndrome	228600
<i>ARX</i>	Xp21.3	Hydranencephaly with abnormal genitalia	300215
<i>L1CAM</i>	Xq28	Hydrocephalus due to aqueductal stenosis	307000
<i>L1CAM</i>	Xq28	Hydrocephalus with congenital idiopathic intestinal pseudoobstruction	307000
<i>L1CAM</i>	Xq28	Hydrocephalus with Hirschsprung disease	307000
<i>CYP21A2</i>	6p21.33	Hyperandrogenism, nonclassic type, due to 21-hydroxylase deficiency	201910
<i>FH</i>	19p13.2	Hypercholesterolemia, familial	143890
<i>MVK</i>	12q24.11	Hyper-IgD syndrome	260920
<i>DOCK8</i>	9p24.3	Hyper-IgE recurrent infection syndrome, autosomal recessive	243700
<i>ABCC8</i>	11p15.1	Hyperinsulinemic hypoglycemia, familial, 1	256450
<i>HADH</i>	4q25	Hyperinsulinemic hypoglycemia, familial, 4	609975
<i>INSR</i>	19p13.2	Hyperinsulinemic hypoglycemia, familial, 5	609968
<i>SLC25A15</i>	13q14.11	Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome	238970
<i>FGA</i>	4q31.3	Hypodysfibrinogenemia, congenital	616004
<i>ABCC8</i>	11p15.1	Hypoglycemia of infancy, leucine-sensitive	240800
<i>GNRHR</i>	4q13.2	Hypogonadotropic hypogonadism 7 without anosmia	146110

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>CLDN19</i>	1p34.2	Hypomagnesemia 5, renal, with ocular involvement	248190
<i>TBCE</i>	1q42.3	Hypoparathyroidism-retardation-dysmorphism syndrome	241410
<i>ALPL</i>	1p36.12	Hypophosphatasia, childhood	241510
<i>ALPL</i>	1p36.12	Hypophosphatasia, infantile	241500
<i>CLCN5</i>	Xp11.23-p11.22	Hypophosphatemic rickets	300554
<i>DMP1</i>	4q22.1	Hypophosphatemic rickets, AR	241520
<i>ENPP1</i>	6q23.2	Hypophosphatemic rickets, autosomal recessive, 2	613312
<i>AR</i>	Xq12	Hypospadias 1, X-linked	300633
<i>TSHB</i>	1p13.2	Hypothyroidism, congenital, nongoitrous 4	275100
<i>GJB2</i>	13q12.11	Hystrix-like ichthyosis with deafness	602540
<i>ABCA12</i>	2q35	Ichthyosis, autosomal recessive 4B (harlequin)	242500
<i>TGM1</i>	14q12	Ichthyosis, congenital, autosomal recessive 1	242300
<i>CLDN1</i>	3q28	Ichthyosis, leukocyte vacuoles, alopecia, and sclerosing cholangitis	607626
<i>MBTPS2</i>	Xp22.12-p22.11	IFAP syndrome with or without BRESHECK syndrome	308205
<i>STIM1</i>	11p15.4	Immunodeficiency 10	612783
<i>CD3G</i>	11q23.3	Immunodeficiency 17, CD3 gamma deficient	615607
<i>CD3E</i>	11q23.3	Immunodeficiency 18	615615
<i>CD3E</i>	11q23.3	Immunodeficiency 18, SCID variant	615615
<i>CD3D</i>	11q23.3	Immunodeficiency 19	615617
<i>CD247</i>	1q24.2	Immunodeficiency 25	610163
<i>IFNGR1</i>	6q23.3	Immunodeficiency 27A, mycobacteriosis, AR	209950
<i>IFNGR1</i>	6q23.3	Immunodeficiency 27B, mycobacteriosis, AD	615978
<i>IFNGR2</i>	21q22.11	Immunodeficiency 28, mycobacteriosis	614889
<i>IL12B</i>	5q33.3	Immunodeficiency 29, mycobacteriosis	614890
<i>IL12RB1</i>	19p13.11	Immunodeficiency 30	614891
<i>STAT1</i>	2q32.2	Immunodeficiency 31B, mycobacterial and viral infections, autosomal reces.	613796
<i>IKBKG</i>	Xq28	Immunodeficiency 33	300636
<i>TYK2</i>	19p13.2	Immunodeficiency 35	611521
<i>ORAI1</i>	12q24.31	Immunodeficiency 9	612782
<i>ICOS</i>	2q33.2	Immunodeficiency, common variable, 1	607594
<i>CD19</i>	16p11.2	Immunodeficiency, common variable, 3	613493
<i>IKBKG</i>	Xq28	Immunodeficiency, isolated	300584
<i>CD40LG</i>	Xq26.3	Immunodeficiency, X-linked, with hyper-IgM	308230
<i>DNMT3B</i>	20q11.21	Immunodeficiency-centromeric instability-facial anomalies syndrome 1	242860
<i>FOXP3</i>	Xp11.23	Immunodysregulation, polyendocrinopathy, and enteropathy, X-linked	304790
<i>IKBKG</i>	Xq28	Incontinentia pigmenti	308300

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>PLA2G6</i>	22q13.1	Infantile neuroaxonal dystrophy 1	256600
<i>NTRK1</i>	1q23.1	Insensitivity to pain, congenital, with anhidrosis	256800
<i>IL1RN</i>	2q13	Interleukin 1 receptor antagonist deficiency	612852
<i>IVD</i>	15q15.1	Isovaleric acidemia	243500
<i>TIMM8A</i>	Xq22.1	Jensen syndrome	311150
<i>UBR1</i>	15q15.2	Johanson-Blizzard syndrome	243800
<i>OFD1</i>	Xp22.2	Joubert syndrome 10	300804
<i>NPHP1</i>	2q13	Joubert syndrome 4	609583
<i>CEP290</i>	12q21.32	Joubert syndrome 5	610188
<i>TMEM67</i>	8q22.1	Joubert syndrome 6	610688
<i>RPGRIP1L</i>	16q12.2	Joubert syndrome 7	611560
<i>AHI1</i>	6q23.3	Joubert syndrome-3	608629
<i>SRD5A3</i>	4q12	Kahrizi syndrome	612713
<i>HPRT</i>	Xq26.2-q26.3	KELLEY-SEEGMILLER SYNDROME	300323
<i>TBCE</i>	1q42.3	Kenny-Caffey syndrome-1	244460
<i>GJB2</i>	13q12.11	Keratitis-ichthyosis-deafness syndrome	148210
<i>GJB2</i>	13q12.11	Keratoderma, palmoplantar, with deafness	148350
<i>MBTPS2</i>	Xp22.12-p22.11	Keratosis follicularis spinulosa decalvans, X-linked	308800
<i>DSP</i>	6p24.3	Keratosis palmoplantaris striata II	612908
<i>GALC</i>	14q31.3	Krabbe disease	245200
<i>PSAP</i>	10q22.1	Krabbe disease, atypical	611722
<i>PDHX</i>	11p13	Lacticacidemia due to PDX1 deficiency	245349
<i>LAMA3</i>	18q11.2	Laryngoonychocutaneous syndrome	245660
<i>SC5DL</i>	11q23.3	Lathosterolosis	607330
<i>HADHA</i>	2p23.3	LCHAD deficiency	609016
<i>FH</i>	19p13.2	LDL cholesterol level QTL2	143890
<i>CEP290</i>	12q21.32	Leber congenital amaurosis 10	611755
<i>BCS1L</i>	2q35	Leigh syndrome	256000
<i>NDUFAF</i>	5q12.1	Leigh syndrome	256000
<i>NDUFS4</i>	5q11.2	Leigh syndrome	256000
<i>NDUFS7</i>	19p13.3	Leigh syndrome	256000
<i>COX15</i>	10q24.2	Leigh syndrome due to cytochrome c oxidase deficiency	256000
<i>NDUFS3</i>	11p11.2	Leigh syndrome due to mitochondrial complex I deficiency	256000
<i>NDUFS8</i>	11q13.2	Leigh syndrome due to mitochondrial complex I deficiency	256000
<i>COX10</i>	17p12	Leigh syndrome due to mitochondrial COX4 deficiency	256000
<i>SURF1</i>	9q34.2	Leigh syndrome, due to COX deficiency	256000
<i>LRPPRC</i>	2p21	Leigh syndrome, French-Canadian type	220111
<i>INSR</i>	19p13.2	Leprechaunism	246200

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
HPRT	Xq26.2-q26.3	Lesch-Nyhan syndrome	300322
ERBB3	12q13.2	Lethal congenital contractual 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
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

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
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	Martolf 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
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	Xp22.32-Xp22.31	Mental retardation, X-linked	300495
RPS6KA3	Xp22.12	Mental retardation, X-linked 19	300844
IL1RAPL1	Xp21.2-Xp21.1	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

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>SLC9A6</i>	Xq26.3	Mental retardation, X-linked syndromic, Christianson type	300243
<i>MECP2</i>	Xq28	Mental retardation, X-linked syndromic, Lubs type	300260
<i>UBE2A</i>	Xq24	Mental retardation, X-linked syndromic, Nascimento-type	300860
<i>ZDHHC9</i>	Xq26.1	Mental retardation, X-linked syndromic, Raymond type	300799
<i>HUWE1</i>	Xp11.22	Mental retardation, X-linked syndromic, Turner type	300706
<i>AFF2 (FMR2)</i>	Xq28	Mental retardation, X-linked, FRAXE type	309548
<i>SMS</i>	Xp22.11	Mental retardation, X-linked, Snyder-Robinson type	309583
<i>MECP2</i>	Xq28	Mental retardation, X-linked, syndromic 13	300055
<i>UPF3B</i>	Xq24	Mental retardation, X-linked, syndromic 14	300676
<i>CUL4B</i>	Xq24	Mental retardation, X-linked, syndromic 15 (Cabezas type)	300354
<i>KDM5C</i>	Xp11.22	Mental retardation, X-linked, syndromic, Claes-Jensen type	300534
<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, cblC 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, cblB 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

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>NDUFA7</i>	19p13.3	Mitochondrial Complex 1 Deficiency (MT-C1D)	252010
<i>NDUFA1</i>	Xq24	Mitochondrial complex I deficiency	252010
<i>NDUFA4</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>UQCRCB</i>	8q22.1	Mitochondrial complex III deficiency, nuclear type 3	615158
<i>UQCRCQ</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
<i>TYMP</i>	22q13.33	Mitochondrial DNA depletion syndrome 1 (MNGIE type)	603041
<i>TK2</i>	16q21	Mitochondrial DNA depletion syndrome 2 (myopathic type)	609560
<i>DGUOK</i>	2p13.1	Mitochondrial DNA depletion syndrome 3 (hepatocerebral type)	251880
<i>POLG</i>	15q26.1	Mitochondrial DNA depletion syndrome 4A (Alpers type)	203700
<i>POLG</i>	15q26.1	Mitochondrial DNA depletion syndrome 4B (MNGIE type)	613662
<i>SUCLA2</i>	13q14.2	Mitochondrial DNA depletion syndrome 5 (encephalomyopathic with or without methylmalonic aciduria)	612073
<i>MPV17</i>	2p23.3	Mitochondrial DNA depletion syndrome 6 (hepatocerebral type)	256810
<i>C10orf2</i>	10q24.31	Mitochondrial DNA depletion syndrome 7 (hepatocerebral type)	271245
<i>RRM2B</i>	8q22.3	Mitochondrial DNA depletion syndrome 8A (encephalomyopathic type with renal tubulopathy)	612075
<i>RRM2B</i>	8q22.3	Mitochondrial DNA depletion syndrome 8B (MNGIE type)	612075
<i>SUCLG1</i>	2p11.2	Mitochondrial DNA depletion syndrome 9 (encephalomyopathic type with methylmalonic aciduria)	245400

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>POLG</i>	15q26.1	Mitochondrial recessive ataxia syndrome (includes SANDO and SCAE)	607459
<i>TIMM8A</i>	Xq22.1	Mohr-Tranebjaerg syndrome	304700
<i>MOCS1</i>	6p21.2	Molybdenum cofactor deficiency A	252150
<i>MOCS2</i>	5q11.2	Molybdenum cofactor deficiency B	252160
<i>ZEB2</i>	2q22.3	Mowat-Wilson syndrome	235730
<i>GNPTAB</i>	12q23.2	Mucolipidosis II alpha/beta	252500
<i>GNPTB</i>	12q23.2	Mucolipidosis III alpha/beta	252600
<i>MCOLN1</i>	19p13.2	Mucolipidosis IV	252650
<i>SGSH</i>	17q25.3	Mucopolysaccharidisis type IIIA (Sanfilippo A)	252900
<i>IDUA</i>	4p16.3	Mucopolysaccharidosis Ih (Hurler Syndrome)	607014
<i>IDUA</i>	4p16.3	Mucopolysaccharidosis Ih/s (HURLER-SCHEIE SYNDROME)	607015
<i>IDS</i>	Xq28	Mucopolysaccharidosis II	309900
<i>IDUA</i>	4p16.3	Mucopolysaccharidosis Is (SCHEIE SYNDROME)	607016
<i>NAGLU</i>	17q21.2	Mucopolysaccharidosis type IIIB (Sanfilippo B)	252920
<i>HGSNAT</i>	8p11.21	Mucopolysaccharidosis type IIIC (Sanfilippo C)	252930
<i>GLB1</i>	3p22.3	Mucopolysaccharidosis type IVB (Morquio)	253010
<i>ARSB</i>	5q14.1	Mucopolysaccharidosis type VI (Maroteaux-Lamy)	253200
<i>GUSB</i>	7q11.21	Mucopolysaccharidosis VII	253220
<i>TRIM37</i>	17q22	Mulibrey nanism	253250
<i>CHRNA1</i>	2q31.1	Multiple pterygium syndrome, lethal type	253290
<i>CHRND</i>	2q37.1	Multiple pterygium syndrome, lethal type	253290
<i>CHRNG</i>	2q37.1	Multiple pterygium syndrome, lethal type	253290
<i>PLEC</i>	8q24.3	Muscular dystrophy with epidermolysis bullosa simplex	226670
<i>LMNA</i>	1q22	Muscular dystrophy, congenital	613205
<i>LAMA2</i>	6q22.33	Muscular dystrophy, congenital merosin-deficient	607855
<i>LAMA2</i>	6q22.33	Muscular dystrophy, congenital, due to partial LAMA2 deficiency	607855
<i>LMNA</i>	1q22	Muscular dystrophy, limb-girdle, type 1B	159001
<i>PLEC</i>	8q24.3	Muscular dystrophy, limb-girdle, type 2Q	613723
<i>SEPN1</i>	1p36.11	Muscular dystrophy, rigid spine, 1	602771
<i>POMT1</i>	9q34.13	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 1	236670
<i>POMT2</i>	14q24.3	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 2	613150
<i>POMGNT1</i>	1p34.1	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 3	253280

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>FKTN</i>	9q31.2	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 4	253800
<i>FKRP</i>	19q13.32	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 5	613153
<i>LARGE</i>	22q12.3	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 6	613154
<i>POMT1</i>	9q34.13	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 1	613155
<i>POMT2</i>	14q24.3	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 2	613156
<i>POMGNT1</i>	1p34.1	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 3	613151
<i>LARGE</i>	22q12.3	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 6	608840
<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

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<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>ORA1</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
<i>NAGS</i>	17q21.31	N-acetylglutamate synthase deficiency	237310
<i>NHS</i>	Xp22.13	Nance-Horan syndrome	302350
<i>NEB</i>	2q23.3	Nemaline myopathy 2, autosomal recessive	256030
<i>CLCN5</i>	Xp11.23-p11.22	Nephrolithiasis, type I	310468
<i>NPHP1</i>	2q13	Nephronophthisis 1, juvenile	256100
<i>TMEM67</i>	8q22.1	Nephronophthisis 11	613550
<i>INVS</i>	9q31.1	Nephronophthisis 2, infantile	602088
<i>NPHP3</i>	3q22.1	Nephronophthisis 3	604387
<i>NPHP4</i>	1p36.31	Nephronophthisis 4	606966
<i>NPHS1</i>	19q13.12	Nephrotic syndrome, type 1	256300
<i>NPHS2</i>	1q25.2	Nephrotic syndrome, type 2	600995
<i>PLCE1</i>	10q23.33	Nephrotic syndrome, type 3	610725
<i>LAMB2</i>	3p21.31	Nephrotic syndrome, type 5, with or without ocular abnormalities	614199
<i>FOLR1</i>	11q13.4	Neurodegeneration due to cerebral folate transport deficiency	613068
<i>PLA2G6</i>	22q13.1	Neurodegeneration with brain iron accumulation 2B	610217
<i>IGHMBP2</i>	11q13.3	Neuronopathy, distal hereditary motor, type VI	604320
<i>MPZ</i>	1q23.3	Neuropathy, congenital hypomyelinating	605253
<i>EGR2</i>	10q21.3	Neuropathy, congenital hypomyelinating, 1	605253
<i>PMP22</i>	17p12	Neuropathy, inflammatory demyelinating	139393
<i>PMP22</i>	17p12	Neuropathy, recurrent, with pressure palsies	162500
<i>HAX1</i>	1q21.3	Neutropenia, severe congenital 3, autosomal recessive	610738
<i>G6PC3</i>	17q21.31	Neutropenia, severe congenital 4, autosomal recessive	612541

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
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
DCLRE1C	10p13	Omenn syndrome	603554
RAG1	11p12	Omenn syndrome	603554
RAG2	11p12	Omenn syndrome	603554
MID1	Xp22.2	Opitz GBBB syndrome, type I	300000
MED12	Xq13.1	Opitz-Kaveggia syndrome	305450
OPA3	19q13.32	Optic atrophy 3 with cataract	165300
OTC	Xp11.4	Ornithine transcarbamylase deficiency	311250
OFD1	Xp22.2	Orofaciodigital syndrome I	311200
COL1A1	17q21.33	Osteogenesis imperfecta, type I	166200
COL1A1	17q21.33	Osteogenesis imperfecta, type II	166210
COL1A2	7q21.3	Osteogenesis imperfecta, type II	166210
COL1A1	17q21.33	Osteogenesis imperfecta, type III	259420
COL1A2	7q21.3	Osteogenesis imperfecta, type III	259420
COL1A1	17q21.33	Osteogenesis imperfecta, type IV	166220
COL1A2	7q21.3	Osteogenesis imperfecta, type IV	166220
CRTAP	3p22.3	Osteogenesis imperfecta, type VII	610682
LEPRE1	1p34.2	Osteogenesis imperfecta, type VIII	610915
CLCN7	16p13.3	Osteopetrosis, autosomal dominant 2	166600
TCIRG1	11q13.2	Osteopetrosis, autosomal recessive 1	259700
CA2	8q21.2	Osteopetrosis, autosomal recessive 3, with renal tubular acidosis	259730
CLCN7	16p13.3	Osteopetrosis, autosomal recessive 4	611490
OSTM1	6q21	Osteopetrosis, autosomal recessive 5	259720
VDR	12q13.11	Osteoporosis, involutional	166710
COL1A2	7q21.3	Osteoporosis, postmenopausal	166710
TNFRSF11B	8q24.12	Paget disease of bone 5, juvenile-onset	239000
SOX3	Xq27.1	Panhypopituitarism, X-linked	312000
PLA2G6	22q13.1	Parkinson disease 14, autosomal recessive	612953

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
ARX	Xp21.3	Partington syndrome	309510
LBR	1q42.12	Pelger-Huet anomaly	169400
PLP1	Xq22.2	Pelizaeus-Merzbacher disease	312080
ACOX1	17q25.1	Peroxisomal acyl-CoA oxidase deficiency	264470
PEX13	2p16.1	Peroxisome biogenesis disorder 11 B	614885
PEX13	2p16.1	Peroxisome biogenesis disorder 11A (Zellweger)	614883
PEX1	7q21.2	Peroxisome biogenesis disorder 1A (Zellweger)	214100
PEX1	7q21.2	Peroxisome biogenesis disorder 1B (NALD/IRD)	601539
PEX12	17q12	Peroxisome biogenesis disorder 3A (Zellweger)	614859
PEX12	17q12	Peroxisome biogenesis disorder 3B	266510
PEX10	1p36.32	Peroxisome biogenesis disorder 6A (Zellweger)	614870
PEX10	1p36.32	Peroxisome biogenesis disorder 6B	614871
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

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>NR5A1</i>	9q33.3	Premature ovarian failure 7	612964
<i>ALS2</i>	2q33.1	Primary lateral sclerosis, juvenile	606353
<i>POLG</i>	15q26.1	Progressive external ophthalmoplegia, autosomal recessive	258450
<i>CFP</i>	Xp11.23	Properdin deficiency, X-linked	312060
<i>PCCA</i>	13q32.3	Propionicacidemia	606054
<i>PCCB</i>	3q22.3	Propionicacidemia	606054
<i>CLCN5</i>	Xp11.23-p11.22	Proteinuria, low molecular weight, with hypercalciuric nephrocalcinosis	308990
<i>ARX</i>	Xp21.3	Proud syndrome	300004
<i>HSD17B3</i>	9q22.32	Pseudohermaphroditism, male, with gynecomastia	264300
<i>SCNN1A</i>	12p13.31	Pseudohypoaldosteronism, type I	264350
<i>SCNN1B</i>	16p12.2	Pseudohypoaldosteronism, type I	264350
<i>SCNN1G</i>	16p12.2	Pseudohypoaldosteronism, type I	264350
<i>SRD5A2</i>	2p23.1	Pseudovaginal perineoscrotal hypospadias	264600
<i>CTSK</i>	1q21.3	Pycnodynatosostosis	265800
<i>MYD88</i>	3p22.2	Pyogenic bacterial infections, recurrent, due to MYD88 deficiency	612260
<i>PNPO</i>	17q21.32	Pyridoxamine 5'-phosphate oxidase deficiency	610090
<i>PC</i>	11q13.2	Pyruvate carboxylase deficiency	266150
<i>PDHA1</i>	Xp22.12	Pyruvate dehydrogenase E1-alpha deficiency	312170
<i>PDP1</i>	8q22.1	Pyruvate dehydrogenase phosphatase deficiency	608782
<i>PKLR</i>	1q22	Pyruvate kinase deficiency	266200
<i>INSR</i>	19p13.2	Rabson-Mendenhall syndrome	262190
<i>FAM20C</i>	7p22.3	Raine syndrome	259775
<i>NPHP3</i>	3q22.1	Renal-hepatic-pancreatic dysplasia 1	208540
<i>PQBP1</i>	Xp11.23	Renpenning syndrome	309500
<i>ZMPSTE24</i>	1p34.2	Restrictive dermopathy, lethal	275210
<i>LMNA</i>	1q22	Restrictive dermopathy, lethal	275210
<i>OFD1</i>	Xp22.2	Retinitis pigmentosa 23	300424
<i>USH2A</i>	1q41	Retinitis pigmentosa 39	613809
<i>CLRN1</i>	3q25.1	Retinitis pigmentosa 61	614180
<i>MECP2</i>	Xq28	Rett syndrome	312750
<i>FOGX1</i>	14q12	Rett syndrome, congenital variant	613454
<i>MECP2</i>	Xq28	Rett syndrome, preserved speech variant	312750
<i>LBR</i>	1q42.12	Reynolds syndrome	613471
<i>PEX7</i>	6q23.3	Rhizomelic chondrodysplasia punctata, type 1	215100
<i>AGPS</i>	2q31.2	Rhizomelic chondrodysplasia punctata, type 3	600121
<i>VDR</i>	12q13.11	Rickets, vitamin D-resistant, type IIA	277440
<i>ESCO2</i>	8p21.1	Roberts syndrome	268300
<i>MPZ</i>	1q23.3	Roussy-Levy syndrome	180800
<i>PMP22</i>	17p12	Roussy-Levy syndrome	180800
<i>SLC17A5</i>	6q13	Salla disease	604369

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>HEXB</i>	5q13.3	Sandhoff disease, infantile, juvenile, and adult forms	268800
<i>ESCO2</i>	8p21.1	SC phocomelia syndrome	269000
<i>SLC35D1</i>	1p31.3	Schneckenbecken dysplasia	269250
<i>WNT10A</i>	2q35	Schopf-Schulz-Passarge syndrome	224750
<i>HSPG2</i>	1p36.12	Schwartz-Jampel syndrome, type 1	255800
<i>JAK3</i>	19p13.11	SCID, autosomal recessive, T-negative/B-positive type	600802
<i>ATR</i>	3q23	Seckel syndrome 1	210600
<i>TH</i>	11p15.5	Segawa syndrome, recessive	605407
<i>NPHP4</i>	1p36.31	Senior-Loken syndrome 4	606996
<i>IQCB1</i>	3q13.33	Senior-Loken syndrome 5	609254
<i>CEP290</i>	12q21.32	Senior-Loken syndrome 6	610189
<i>NPHP1</i>	2q13	Senior-Loken syndrome-1	266900
<i>HESX1</i>	3p14.3	Septooptic dysplasia	182230
<i>ADA</i>	20q13.12	Severe combined immunodeficiency due to ADA deficiency	102700
<i>NHEJ1</i>	2q35	Severe combined immunodeficiency with microcephaly, growth retardation, and sensitivity to ionizing radiation	611291
<i>DCLRE1C</i>	10p13	Severe combined immunodeficiency, Athabascan type	602450
<i>RAG1</i>	11p12	Severe combined immunodeficiency, B cell-negative	601457
<i>RAG2</i>	11p12	Severe combined immunodeficiency, B cell-negative	601457
<i>IL2R</i>	Xq13.1	Severe combined immunodeficiency, X-linked	300400
<i>IFT80</i>	3q25.33	Short-rib thoracic dysplasia 2 with or without polydactyly	611263
<i>DYNC2H1</i>	11q22.3	Short-rib thoracic dysplasia 3 with or without polydactyly	613091
<i>SBDS</i>	7q11.21	Shwachman-Bodian-Diamond syndrome	260400
<i>SLC17A5</i>	6q13	Sialic acid storage disorder, infantile	269920
<i>NEU1</i>	6p21.33	Sialidosis, type I	256550
<i>NEU1</i>	6p21.33	Sialidosis, type II	256550
<i>HBB</i>	11p15.4	Sickle cell anemia	603903
<i>GPC3</i>	Xq26.2	Simpson-Golabi-Behmel syndrome, type 1	312870
<i>OFD1</i>	Xp22.2	Simpson-Golabi-Behmel syndrome, type 2	300209
<i>ALDH3A2</i>	17p11.2	Sjogren-Larsson syndrome	270200
<i>DSP</i>	6p24.3	Skin fragility-woolly hair syndrome	607655
<i>DHCR7</i>	11q13.4	Smith-Lemli-Opitz syndrome	270400
<i>NSD1</i>	5q35.2-q35.3	Sotos syndrome 1	117550
<i>SACS</i>	13q12.12	Spastic ataxia, Charlevoix-Saguenay type	270550
<i>ALS2</i>	2q33.1	Spastic paralysis, infantile onset ascending	607225

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
<i>PLP1</i>	Xq22.2	Spastic paraplegia 2, X-linked	312920
<i>GJC2</i>	1q42.13	Spastic paraplegia 44, autosomal recessive	613206
<i>NR5A1</i>	9q33.3	Spermatogenic failure 8	613957
<i>AR</i>	Xq12	Spinal and bulbar muscular atrophy of Kennedy	313200
<i>PLEKHG5</i>	1p36.31	Spinal muscular atrophy, distal, autosomal recessive, 4	611067
<i>ATP7A</i>	Xq21.1	Spinal muscular atrophy, distal, X-linked 3	300489
<i>UBA1</i>	Xp11.23	Spinal muscular atrophy, X-linked 2, infantile	301830
<i>SMN1</i>	5q13.2	Spinal muscular atrophy-1	253300
<i>SMN1</i>	5q13.2	Spinal muscular atrophy-2	253550
<i>SMN1</i>	5q13.2	Spinal muscular atrophy-3	253400
<i>SMN1</i>	5q13.2	Spinal muscular atrophy-4	271150
<i>TPP1</i>	11p15.4	Spinocerebellar ataxia, autosomal recessive 7	609270
<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 laminar heteroplasia, 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

COMPATIBILITY

GENETIC TEST

GENE	LOCUS	DISEASE	OMIM
MPL	1p34.2	Thrombocythemia 2	601977
MPL	1p34.2	Thrombocytopenia, congenital amegakaryocytic	604498
WAS	Xp11.23	Thrombocytopenia, X-linked	313900
WAS	Xp11.23	Thrombocytopenia, X-linked, intermittent	313900
F9	Xq27.1	Thrombophilia, X-linked, due to factor IX defect	300807
CBS	21q22.3	Thrombosis, hyperhomocysteinemic	236200
ADAMTS13	9q34.2	Thrombotic thrombocytopenic purpura, familial	274150
COL7A1	3p21.31	Toenail dystrophy, isolated	607523
WNT10A	2q35	Tooth agenesis, selective, 4	150400
EDA	Xq13.1	Tooth agenesis, selective, X-linked 1	313500
COL7A1	3p21.31	Transient bullous of the newborn	131705
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

COMPATIBILITY

GENETIC TEST

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