Human Genome Landmarks

Selected Genes, Traits, and Disorders

www.ornl.gov/hgmis/posters/chromosome

genomics.energy.gov

1 — 246 million base pairs

Cataracts
Malignant transformation suppression
Ehlers-Danlos syndrome, type VI
Glaucoma, primary infantile
Hirschsprung disease, cardiac defects
Schwartz-Jampel syndrome
Hypophosphatasia, infantile, childhood
Breast cancer, ductal
Cutaneous malignant melanoma/dysplastic nevus
p53-related protein
Serotonin receptors
Schnyder crystalline corneal dystrophy
Kostmann neutropenia
Oncogene MYC, lung carcinoma-derived
Deafness, autosomal dominant
Porphyria
Epiphyseal dysplasia, multiple, type 2
Intervertebral disc disease
Lymphoma, non-Hodgkin
Breast cancer, invasive intraductal
Colon adenocarcinoma
Maple syrup urine disease, type II
Atrioventricular canal defect
Fluorouracil toxicity, sensitivity to
Zellweger syndrome
Stickler syndrome, type III
Marshall syndrome
Stargardt disease
Retinitis pigmentosa
Cone-rod dystrophy
Macular dystrophy, age-related
Fundus flavimaculatus
Hypothyroidism, nongoitrous
Exostoses, multiple
Pheochromocytoma
Psoriasis susceptibility
Limb-girdle muscular dystrophy, autosomal dominant
Pycnodysostosis
Vohwinkel syndrome with ichthyosis
Erythrokeratoderma, progressive symmetric
Anemia, hemolytic
Elliptocytosis
Pyropoikilocytosis
Spherocytosis, recessive
Schizophrenia
Lupus nephritis, susceptibility to
Migraine, familial hemiplegic
Emery-Dreifuss muscular dystrophy
Cardiomyopathy, dilated
Lipodystrophy, familial partial
Dejerine-Sottas disease, myelin P-related
Hypomyelination, congenital
Nemaline myopathy, autosomal dominant
Lupus erythematosus, systemic, susceptibility
Neutropenia, alloimmune neonatal
Viral infections, recurrent
Antithrombin III deficiency
Atherosclerosis, susceptibility to
Glaucoma
Tumor potentiating region
Nephrotic syndrome
Sjogren syndrome
Coagulation factor deficiency
Alzheimer disease
Cardiomyopathy
Factor H deficiency
Membranoproliferative glomerulonephritis
Hemolytic-uremic syndrome
Nephropathy, chronic hypocomplementemic
Epidermolysis bullosa
Popliteala pterygium syndrome
Ectodermal dysplasia/skin fragility syndrome
Usher syndrome, type 2A
Kenny-Caffey syndrome
Diphenylhydantoin toxicity
Melanoma-associated gene
Thyroid iodine peroxidase deficiency
Goiter, congenital
Hypothyroidism, congenital
Lipoproteinemia, hypobeta, abeta-, hyperbeta-, and apo-
ACTH deficiency
Obesity, adrenal insufficiency, and red hair
LCHAD deficiency
Trifunctional protein deficiency, type 1
HELLP syndrome, maternal, of pregnancy
Fatty liver, acute, of pregnancy
Deafness, autosomal recessive
Glaucoma, primary infantile
Spastic paraplegia
Gingival fibromatosis, hereditary
Holoprosencephaly
Ovarian dysgenesis
Carney complexes
Endometrial carcinoma
Zellweger syndrome
Adrenoleukodystrophy, neonatal
Abstrom syndrome
Preeclampsia/eclampsia
Welander distal myopathy
Kappa light chain deficiency
Pancreatic stone protein
Lissencephaly
Renal tubular acidosis with deafness
BRCA1-associated RING domain (breast cancer)
Achromatopsia
Rhabdomyosarcoma, down-regulated in
Diazepam-binding inhibitor
Thrombophilia due to protein C deficiency
Purpura fulminans, neonatal
Liver cancer oncogene
Xeroderma pigmentosum, group B
Trichothiodystrophy
Nemaline myopathy, autosomal recessive
Convulsions, familial febrile
Progressive intrahepatic cholestasis
Ectodrom myopathy
Mesomelic dysplasia, Kantaputra type
Cardiomyopathy, familial hypertrophic
Bardet-Biedl syndrome
Ehlers-Danlos syndrome
Aneurysm, familial arterial
Diabetes mellitus, insulin-dependent
Primary pulmonary hypertension, familial primary
Cleft palate, isolated
Wrinkly skin syndrome
Amyotrophic lateral sclerosis, juvenile recessive
Lactic acidosis due to defect in iron-sulfur cluster of complex I
Ichthyosis
Finnish lethal neonatal metabolic syndrome
Bjornstad syndrome (pili torti and deafness)
Myopathy, desmin-related, cardioskeletal
Cardiomyopathy, dilated
Natural resistance-associated macrophage protein
Hyperoxaluria, primary, type 1
Alport syndrome, autosomal recessive
Hematuria, familial benign
Brachydactyly-mental retardation syndrome
Oguchi disease
Epidermolysis bullosa

2 — 243 million base pairs

Tremor, familial essential
Oculodigitoesophagoduodenal syndrome
Anaplastic lymphoma kinase (Ki-1)
Pseudovaginal perineoscrotal hypospadias
Xanthinuria, type I
Colorectal cancer, hereditary, nonpolyposis, type 1
Ovarian cancer
Muir-Torre syndrome
Human T-cell leukemia virus enhancer factor
Precocious puberty, male
Pseudohermaphroditism, male, with Leydig cell hypoplasia
Hypogonadotropic hypogonadism
Micropenis
Leydig cell adenoma, with precocious puberty
Sitosterolemia
Cystinuria
Doyne honeycomb degeneration of retina
Dyslexia, specific
Muscular dystrophy
Miyoshi myopathy
Myopathy, distal, with anterior tibial onset
Orofacial cleft
Parkinson disease, type 3
Vitamin K-dependent coagulation defect
Pancreatitis-associated protein
Pulmonary alveolar proteinosis, congenital
Glaucoma, open angle, B (adult-onset)
Diabetes mellitus, non-insulin-dependent
Ectodermal dysplasia, autosomal dominant and recessive
Hypothyroidism, congenital
Nephronophthisis
Colorectal cancer
Cardiomyopathy, dilated
Spastic cerebral palsy, symmetric, autosomal recessive
Epilepsy
Ataxia, episodic
Deafness, autosomal dominant
Myasthenic syndrome, slow-channel congenital
Rhizomelic chondrodysplasia punctata, type 3
Cardiomyopathy, dilated
Duane retraction syndrome
Neurogenic differentiation
Colorectal cancer, hereditary nonpolyposis, type 3
Neurogenic differentiation
Arrhythmogenic right ventricular dysplasia
Myasthenia gravis, neonatal transient
Cataracts
Parasympathetic ganglion
Choreoathetosis, familial paroxysmal
Cerebrotendinous xanthomatosis
Acyl-Coenzyme A dehydrogenase
Carbamoylphosphate synthetase I
Waardenburg syndrome, types I and III
Craniofacial-deafness-hand syndrome
Brachydactyly, type A1
Goodpasture antigen
Serotonin receptor
Bethlem myopathy
Programmed cell death
Leigh syndrome, French-Canadian type
Ultraviolet damage, repair of
Crigler-Najjar syndrome, type I
von Hippel-Lindau syndrome
Renal cell carcinoma
Fanconi anemia, complementation group D
Bisteinidase deficiency
Xeroderma pigmentosum, complementation group C
Cardiomyopathy, dilated, autosomal dominant
Endplate acetylcholinesterase deficiency
Arrhythmogenic right ventricular dysplasia
Teratocarcinoma-derived growth factor
Hepatoblastoma
Pilomatricoma
Ovarian carcinoma, endometrioid type
Hypobetalipoproteinemia, familial
GM1-gangliosidosis
Mucopolysaccharidosis
BRCA1 associated protein (breast cancer)
Hemolytic anemia
Septooptic dysplasia
Progressive external ophthalmoplegia, type 2
Larsen syndrome, autosomal dominant
HIV infection, susceptibility/resistance to
Ichthyosiform erythroderma, congenital
Long QT syndrome
Brugada syndrome
Heart block, progressive and nonprogressive
Deafness, autosomal recessive
Waardenburg syndrome
Tietz syndrome
Glycogen storage disease
Dementia, familial, nonspecific
Pituitary hormone deficiency, combined
Thyrotropin-releasing hormone deficiency
Deafness, autosomal recessive
Hypomagnesemia, primary
Tremor, familial essential
Charcot-Marie-Tooth neuropathy
Malignant hyperthermia susceptibility
Hypocalciuric hypercalcemia, type I
Neonatal hyperparathyroidism
Hypocalcemia, autosomal dominant
Transferrinemia
Propionicacidemia, PA1 or pcB
Hailey-Hailey disease
Retinitis pigmentosa, autosomal dominant and recessive
Night blindness, congenital stationery, rhodopsin-related
Cataracts, juvenile-onset and congenital
Common acute lymphocytic leukemia antigen
Blepharophimosis, epicanthus inversus and ptosis type 1
Hemosiderosis, systemic
Sucrose intolerance
Cerebral cavernous malformations
Myelodysplasia syndrome
Apnea, postanesthetic
Ovarian cancer
Megakaryocyte growth and development factor
Thrombocythemia, essential
Peroxisomal bifunctional enzyme deficiency
Thrombophilia due to HRG deficiency
Leukoencephalopathy with vanishing white matter
Lipoma-preferred-partner gene fused with HMGIC

3 — 199 million base pairs

Moyamoya disease
Muscular dystrophy, limb-girdle, type IC
Obesity, severe
Diabetes mellitus, insulin-resistant
Marfan-like connective tissue disorder
Thyroid hormone resistance
Usher syndrome, type IIB
Pseudo-Zellweger syndrome
Lung cancer, small-cell
Colon cancer
Deleted in lung and esophageal cancer
Metaphyseal chondrodysplasia, Murk Jansen type
Camnitine-acylcarnitine translocase (deficiency)
Epidermolysis bullosa
Colorectal cancer, hereditary nonpolyposis, type 2
Turcot syndrome with glioblastoma
Muir-Torre family cancer syndrome
Hyperglycinemia, nonketotic
Pancreatic cancer
Spinocerebellar ataxia
Pituitary ACTH-secreting adenoma
Ventricular tachycardia, idiopathic
Night blindness, congenital stationary
T-cell leukemia translocation altered gene
Leukemia, T-cell acute lymphoblastic
Muscular dystrophy, limb-girdle, type 2H
Bladder cancer
Sex reversal, XY, with adrenal failure
Leukemia transcription factor, pre-B-cell
Porphyria, acute hepatic
Lead poisoning, susceptibility to
Citrullinemia
Dopamine-beta-hydroxylase deficiency
Amyloidosis, Finnish type
Microcephaly, primary autosomal recessive
Leigh syndrome
Leukemia
Nail-patella syndrome
Prostaglandin D2 synthase (brain)
Pituitary hormone deficiency
Cherubism (familial benign giant-cell tumor of the jaw)
Dopamine receptor
Huntington disease
Night blindness, congenital stationary, type 3
Retinitis pigmentosa, autosomal recessive
Retinal degeneration, autosomal recessive
Wolfram syndrome
Craniosynostosis, Adelaide type
Phenylketonuria
Parkinson disease, familial
Pituitary tumor-transforming gene
Stargardt disease
Dentin dysplasia, Shields type II
Leukemia, acute myeloid
Periodontitis, juvenile
Muscular dystrophy, limb-girdle, type 2E
Melanoma growth-stimulating activity
Hyper-IgE syndrome
Renal tubular acidosis
Mucolipidosis
Lymphocytic leukemia, acute T-cell
Alcoholism, susceptibility to
Wolfram syndrome
Sclerotylosis
Hunter syndrome
Rieger syndrome
Iridogoniodysgenesis syndrome
Severe combined immunodeficiency
Aplasia cutis congenita
Afibrinogenemia
Anterior segment mesenchymal dysgenesis
Tryptophan oxygenase
Aspartylglucosaminuria
Hepatitis B virus integration site
Hepatocellular carcinoma
Progressive external ophthalmoplegia, type 3
Coagulation factor XI
Factosciscapulohumeral muscular dystrophy
Eutropenia, neonatal alloimmune
Fletcher factor

4 — 191 million base pairs

Deafness, autosomal dominant
Achondroplasia
Hypochondroplasia
Thanatophoric dysplasia, types I and II
Crouzon syndrome with acanthosis nigricans
Muencke syndrome
Mucopolysaccharidosis
Wolf-Hirschhorn syndrome
Hypodontia
Dopamine receptor
Ellis-van Creveld syndrome
Weyers acrodental dysostosis
Huntington-like neurodegenerative disorder
Retinitis pigmentosa, autosomal recessive
Psoriasis susceptibility
Analbuminemia
Amelogenesis imperfecta
Piebaldism
Mast cell leukemia
Mastocytosis with associated hematologic disorder
Germ cell tumors
Dentinogenesis imperfecta
Myeloid/lymphoid or mixed-lineage leukemia
Parkinson disease, type 1
Polycystic kidney disease, adult, type II
Hypogonadotropic hypogonadism
Abetalipoproteinemia
Mannosidosis, beta
C3b inactivator deficiency
Long QT syndrome with sinus bradycardia
Fibrodysplasia ossificans progressiva
Fibrinogenemia
Amyloidosis, hereditary renal
Hair color, red
Pseudohypoaldosteronism type I, autosomal dominant
Glutaricaciduria, type IIC
Hypercalciuria
Beukes familial hip dysplasia
Factosciscapulohumeral muscular dystrophy region
Dopamine transporter
Attention-deficit hyperactivity disorder, susceptibility to
Cri-du-chat syndrome, mental retardation in
Chondrocalcinosis
Taste receptor
Alpha-methylacyl-CoA racemase deficiency
Differentially expressed in ovarian cancer
Ketoacidosis
Leukemia inhibitory factor receptor
Myopathy, distal, with vocal cord and pharyngeal weakness
Molybdenum cofactor deficiency, type B
Endometrial carcinoma
Klippel-Feil syndrome
Anemia, megaloblastic
Sandhoff disease
Spinal muscular atrophy, juvenile
X-ray repair
Convulsions, familial febrile
Adenomatous polyposis coli
Gardner syndrome
Colorectal cancer
Desmoid disease
Turcot syndrome
Ehlers-Danlos syndrome
Neonatal alloimmune thrombocytopenia
Myelodysplastic syndrome
Limb-girdle muscular dystrophy, autosomal dominant
Deafness
Bronchial hyperresponsiveness (bronchial asthma)
Hemangioma, capillary infantile
Spinocerebellar ataxia
Macrocytic anemia
Gastric cancer
Non small-cell lung cancer
Retinitis pigmentosa, autosomal recessive
Charcot-Marie-Tooth neuropathy
Netherton syndrome
Treacher Collins-Franceschetti syndrome
Pituitary tumor-transforming gene
Coagulation factor XII (Hageman factor)
Myeloid malignancy, predisposition to
Craniosynostosis, type 2
Parietal foramina
Leukotriene C4 synthase deficiency
Dopamine receptor
Hermansky-Pudlak syndrome

5 — 181 million base pairs

Homocystinuria-megaloblastic anemia, cbl E type
Craniometaphyseal dysplasia
Leigh syndrome
Polycystic ovary syndrome
Hirschsprung disease
Severe combined immunodeficiency
Dwarfism
Malignant hyperthermia susceptibility
Pituitary hormone deficiency
Cytotoxic T-lymphocyte-associated serine esterase
Hanukah factor serine protease
Maroteaux-Lamy syndrome
Serotonin receptor
Schizophrenia susceptibility locus
Wagner syndrome
Erosive vitreoretinopathy
Basal cell carcinoma
Obesity with impaired prohormone processing
Diphtheria toxin receptor
Contractural arachnodactyly, congenital
Cutis laxa, recessive, type I
Deafness
Cortisol resistance
Corneal dystrophy
Eosinophilia, familial
Serotonin receptor
Schistosoma mansoni infection, susceptibility/resistance to
Natural killer cell cytotoxicity factor-2
GM2-gangliosidosis, AB variant
Startle disease, autosomal dominant and recessive
Diastrophic dysplasia
Atelostreogenesis
Achondrogenesis
Epiphyseal dysplasia, multiple
Asthma, nocturnal, susceptibility to
Obesity, susceptibility to
Muscular dystrophy, limb-girdle, type 2F
Carnitine deficiency, systemic primary
Atrial septal defect with atrioventricular conduction defects
Arthrogryposis multiplex congenital, neurogenic
Leukemia, acute promyelocytic, NPM/RARA type
Vascular endothelial growth factor receptor
Lymphedema, hereditary
Cockayne syndrome
Pancreatitis, hereditary
Iridogoniodysgenesis
Anterior segment mesenchymal dysgenesis
Rieger anomaly
Axenfeld anomaly
Coagulation factor XIII
Keratosis palmoplantaris striata
Spinocerebellar ataxia
Schizophrenia susceptibility locus
Maple syrup urine disease, type Ib
Bare lymphocyte syndrome, type I
Atrial septal defect, secundum type
Adrenal hyperplasia, congenital
Renal glucosuria
Beryllium disease, chronic, susceptibility to
Leukemia, pre-B-cell transcription factor
Tumor necrosis factor (cachectin)
Malaria, cerebral, susceptibility to
Retinitis pigmentosa
Platelet-activating factor
Asthma and atopy, susceptibility to
Peroxisomal biogenesis disorder
Anemia, hemolytic, Rh-null, suppressor type
Methylmalonicaciduria, mutase deficiency type
Hemolytic anemia
Char syndrome
Wolfram syndrome
Gluten-sensitive enteropathy (celiac disease)
Cone-rod dystrophy
Inflammatory bowel disease
Mixed polyposis syndrome, hereditary
Leber congenital amaurosis, type V
Serotonin receptors
Macular dystrophy, retinal, North Carolina type
Obesity, severe
Diabetes mellitus, insulin-dependent
Muscular dystrophy, congenital merosin-deficient
Arthropathy, progressive pseudorheumatoid, of childhood
Rhizomelic chondrodysplasia punctata, type 1
Deafness
Cardiomyopathy, dilated, autosomal dominant
Human immunodeficiency virus type I susceptibility
Epilepsy, myoclonic, Lafora type
Opioid receptor
Estrogen receptor
Breast cancer
Estrogen resistance
Insulin-like growth factor-2 receptor
Hepatocellular carcinoma
Tumorigenicity, suppression of
Loss of heterozygosity, ovarian
Ovarian cancer, serous
Myeloid/lymphoid or mixed-lineage leukemia
Pancreatic beta cell, agenesis of
uniparental disomy
Conjunctivitis, ligneous
Coronary artery disease, susceptibility to
Complex neurologic disorder
Xeroderma pigmentosum, variant type

6 — 170 million base pairs

Multiple myeloma oncogene
Orofacial cleft
Leukemia, acute nonlymphocytic
Fanconi anemia, complementation group E
Ankylosing spondylitis
Stickler syndrome, type II
OSMED syndrome
Weissenbacher-Zweymuller syndrome
Deafness, nonsyndromic sensorineural
Dyslexia
Hemochromatosis
Porphyria variegata
Pemphigoid, susceptibility to
Immune suppression to streptococcal antigen
Sialidosis, types I and II
Panbronchiolitis, diffuse
Psoriasis susceptibility
Ehlers-Danlos-like syndrome
Cone dystrophy
Polycystic kidney and hepatic disease, autosomal recessive
Retinal degeneration, slow (peripherin)
Retinitis pigmentosa, peripheris-related and punctata albescens
Macular dystrophy
Butterfly dystrophy, retinal
Cleidocranial dysplasia
Dental anomalies, isolated
Nystagmus, autosomal dominant
Bullous pemphigoid antigen 1
Pelviureteric junction obstruction
Stargardt disease, autosomal dominant
Epilepsy, juvenile myoclonic
Beis-specific angiogenesis inhibitor
Diazepam-binding inhibitor
Schizophrenia susceptibility locus
Salla disease
Sialic acid storage disorder, infantile
Chorioretinal atrophy, progressive bifocal
Melanoma, absent in
Metaphyseal chondrodysplasia, Schmid type
Spondylometaphyseal dysplasia, Japanese type
Hepatic fibrosis susceptibility
Oculodentodigital dysplasia (Syndactyly type III)
Hereditary persistence of fetal hemoglobin, heterocellular
Argininemia
Leukemia
Immune interferon, receptor for
Mycobacterial infection, atypical, familial disseminated
BCG infection, generalized familial
Tuberculosis, susceptibility to
Diabetes mellitus, transient neonatal
Pleomorphic adenoma (ZAC tumor supressor)
Parkinson disease, juvenile, type 2
Plasminogen Tochigi disease
Thrombophilia, dysplasminogenemic
Plasminogen deficiency, types I and II

7 — 158 million base pairs

Ewing sarcoma
Turcot syndrome with glioblastoma
Colorectal cancer, hereditary nonpolyposis, type 4
Osteopenia/osteoporosis
Macular dystrophy, dominant cystoid
Retinitis pigmentosa
Growth hormone deficient dwarfism
Hand-foot-uterus syndrome
Hyperinsulinism, familial
Charcot-Marie-Tooth neuropathy, neuronal type D
Alpha-ketoglutarate dehydrogenase deficiency
Myopathy
T-cell tumor invasion and metastasis
Argininosuccinicaciduria
Hyperreflexia
Clostridium perfringens enterotoxin receptor
Supravalvar aortic stenosis
Williams-Beuren syndrome
Cutis laxa
Cytoplasmic linker
Williams-Beuren syndrome chromosome region 4
Chronic granulomatous disease
Malignant hyperthermia susceptibility
P-glycoprotein/multiple drug resistance
Colchicine resistance
Cholestasis
Split hand/foot malformation (ectrodactyly) type 1
Paraoxonase
Coronary artery disease, susceptibility to
Plasminogen activator inhibitor, type I
Thrombophilia
Hemorrhagic diathesis
Hemochromatosis
Osteogenesis imperfecta
Ehlers-Danlos syndrome, type VIIA2
Osteoporosis, idiopathic
Ovarian carcinoma on antigen
Neuroblastoma
Glanzmann thrombasthenia, type A
Thrombocytopenia, neonatal alloimmune
CLL/lymphoma, B-cell
Retinitis pigmentosa
Pituitary tumor, invasive
Myocardial infarction, susceptibility to
Alzheimer disease, susceptibility to
Myotonia congenita, atypical
Cramps, familial
Fetal Alzheimer antigen
Lung cancer, small-cell
Campomelic dysplasia with autosomal sex reversal
Apoptosis inhibitor
Diabetes mellitus, type II
Radical fringe
Epilepsy, progressive, with mental retardation
Keratolytic winter erythema
Prostate cancer tumor suppressor, putative
Liver cancer, deleted in
Alopecia universalis
Atrichia with papular lesions
Scurvy
Schizophrenia susceptibility locus
Plasminogen activator deficiency
Spastic paraplegia, autosomal recessive
Lipoid adrenal hyperplasia
Monocytic leukemia
Retinitis pigmentosa
Pleomorphic adenoma
ACTH deficiency
Convulsions, familial febrile
Ataxia with isolated vitamin E deficiency
Achromatopsia
CMO II deficiency
Zellweger syndrome
Refsum disease, infantile form
Lymphoma, non-Hodgkin
Colon adenocarcinoma
Dihydropyrimidinuria
Cohen syndrome
Glaucoma, open angle
Epidermolysis bullosa simplex, Ogna type
Neuropathy, hereditary motor and sensory
Epilepsy
Oncogene PVT (MYC activator)
Nephroblastoma overexpressed gene
Exostoses, multiple, type 1
Chondrosarcoma
Trichorhinophalangeal syndrome type I
Prostate stem cell antigen
Rothmund-Thomson syndrome
Meleda disease

8 — 146 million base pairs

Microcephaly, primary autosomal recessive
Hyperlipoproteinemia
Chylomicronemia syndrome, familial
Combined hyperlipemia, familial
Farber lipogranulomatosis
Hepatocellular cancer
Colorectal cancer
Hemolytic anemia
Hypotrichosis, Marie Unna type
Torsion dystonia, adult onset, of mixed type
Werner syndrome
Spherocytosis
Pfeiffer syndrome
Chondrocalcinosis, with early-onset osteoarthritis
Opiate receptor, kappa
Salivary gland pleomorphic adenoma
Duane retraction syndrome
Charcot-Marie-Tooth neuropathy, autosomal recessive
Brachydactyly, type B1
Nephronophthisis (infantile)
Neuropathy, sensory and autonomic, type 1
Branchiootorenal syndromes
Branchiootic syndrome
Adrenal hyperplasia, congenital
Aldosteronism
Nijmegen breakage syndrome
Giant cell hepatitis, neonatal
Renal tubular acidosis-osteopetrosis syndrome
Segmentation syndrome
Spastic paraplegia
Brain-specific angiogenesis inhibitor
Papillomavirus type 18 integration site
Muscular dystrophy with epidermolysis bullosa
Macular dystrophy, atypical vitelliform
Renal cell carcinoma
Langer-Giedion syndrome
Burkitt lymphoma
Hypothyroidism, hereditary congenital
Goiter, adolescent multinodular and nonendemic
Sex-reversal, autosomal
Hyperglycinemia, nonketotic
Suppression of tumorigenicity, pancreas
Diaphyseal medullary stenosis
Melanoma
Trichoepithelioma, multiple familial
Immotile cilia syndrome
Cartilage-hair hypoplasia
X-ray repair
Fanconi anemia, complementation group G
Sukaria
Hyperoxaluria, primary, type II
Cardiomyopathy
Deafness, autosomal recessive
Choreoacanthocytosis
Prostate-specific gene
Bamforth-Lazarus syndrome
Tyrosine kinase-like orphan receptor
Brachydactyly, type B1
Nephronophthisis (infantile)
Long QT syndrome
Brugada syndrome
Heart block, progressive and nonprogressive
Deafness, autosomal recessive
Waardenburg syndrome
Tietz syndrome
Glycogen storage disease
Dementia, familial, nonspecific
Pituitary hormone deficiency, combined
Thyrotropin-releasing hormone deficiency
Deafness, autosomal recessive
Hypomagnesemia, primary
Tremor, familial essential
Charcot-Marie-Tooth neuropathy
Malignant hyperthermia susceptibility
Hypocalciuric hypercalcemia, type I
Neonatal hyperparathyroidism
Hypocalcemia, autosomal dominant
Transferrinemia
Propionicacidemia, PA1 or pcB
Hailey-Hailey disease
Retinitis pigmentosa, autosomal dominant and recessive
Night blindness, congenital stationery, rhodopsin-related
Cataracts, juvenile-onset and congenital
Common acute lymphocytic leukemia antigen
Blepharophimosis, epicanthus inversus and ptosis type 1
Hemosiderosis, systemic
Sucrose intolerance
Cerebral cavernous malformations
Myelodysplasia syndrome
Apnea, postanesthetic
Ovarian cancer
Megakaryocyte growth and development factor
Thrombocythemia, essential
Peroxisomal bifunctional enzyme deficiency
Thrombophilia due to HRG deficiency
Leukoencephalopathy with vanishing white matter
Lipoma-preferred-partner gene fused with HMGIC

9 — 136 million base pairs

Ovarian cancer
Albinism, brown and rufous
Interferon, alpha, deficiency
Leukemia
Cyclin-dependent kinase inhibitor
Venous malformations, multiple cutaneous and mucosal
Arthrogryposis multiplex congenita, distal, type 1
Cholestasis
Myeloblastosis
Acromesomelic dysplasia, Maroteaux type
Myopathy, inclusion body, autosomal recessive
Hypomagnesemia with secondary hypocalcemia
Friedreich ataxia
Geniospasm
Bleeding diathesis
Hemophagocytic lymphohistiocytosis, familial
Chondrosarcoma, extraskeletal myxoid
Pseudohermaphroditism, male, with gynecomastia
Tangier disease
HDL deficiency, familial
Fanconi anemia, type C
Xeroderma pigmentosum
Epithelioma, self-healing, squamous
Leukemia, T-cell acute lymphoblastic
Muscular dystrophy, limb-girdle, type 2H
Bladder cancer
Sex reversal, XY, with adrenal failure
Leukemia transcription factor, pre-B-cell
Porphyria, acute hepatic
Lead poisoning, susceptibility to
Citrullinemia
Dopamine-beta-hydroxylase deficiency
Amyloidosis, Finnish type
Microcephaly, primary autosomal recessive
Leigh syndrome
Leukemia
Nail-patella syndrome
Prostaglandin D2 synthase (brain)
Pituitary hormone deficiency
Refsum disease, adult
Hypoparathyroidism, deafness, renal dysplasia
DiGeorge syndrome/velocardiofacial syndrome
Lambert-Eaton syndrome
Megaloblastic anemia
Diabetes mellitus, insulin-dependent
Severe combined immunodeficiency disease, Athabascan
Cockayne syndrome, type B
Cerebrooculofacioskeletal syndrome
Opsonic defect
Chronic infections
Retinal nonattachment, nonsyndromic congenital
Cardiomyopathy, dilated, autosomal dominant
Neuropathy, congenital hypomyelinating
Graves disease autoantigen
Hypermethioninemia, persistent, autosomal dominant
Hemophagocytic lymphohistiocytosis, familial
Retinitis pigmentosa, autosomal recessive and dominant
Urofacial syndrome (Ochoa syndrome)
Hypoglobulinemia and absent B cells
Hyperinsulinism-hyperammonemia syndrome
Spastic paraplegia
Dubin-Johnson syndrome
Warfarin sensitivity
Endometrial carcinoma
Cholesteryl ester storage disease
Tumor necrosis factor receptor superfamily, member 6
Autoimmune lymphoproliferative syndrome
Epidermolysis bullosa, generalized atrophic benign
Optic nerve coloboma with renal disease
Prostate cancer
Neurofibrosarcoma
Porphyria, congenital erythropoietic
Endometrial carcinoma
Gyrate atrophy of choroid and retina
Pancreatic lipase deficiency
Glaucoma
Pfeiffer syndrome
Apert syndrome
Saethre-Chotzen syndrome
Schizencephaly
Polykaryocytosis inducer (promoter)
Usher syndrome, autosomal recessive, severe

10 — 135 million base pairs

Suppression of tumorigenicity, prostate
Prostate adenocarcinoma
Interleukin receptor, alpha chain, deficiency of
Arrhythmogenic right ventricular dysplasia
Myasthenic antigen B
Lambert-Eaton syndrome
Megaloblastic anemia
Diabetes mellitus, insulin-dependent
Severe combined immunodeficiency disease, Athabascan
Cockayne syndrome, type B
Cerebrooculofacioskeletal syndrome
Opsonic defect
Chronic infections
Retinal nonattachment, nonsyndromic congenital
Cardiomyopathy, dilated, autosomal dominant
Neuropathy, congenital hypomyelinating
Graves disease autoantigen
Hypermethioninemia, persistent, autosomal dominant
Hemophagocytic lymphohistiocytosis, familial
Retinitis pigmentosa, autosomal recessive and dominant
Urofacial syndrome (Ochoa syndrome)
Hypoglobulinemia and absent B cells
Hyperinsulinism-hyperammonemia syndrome
Spastic paraplegia
Dubin-Johnson syndrome
Warfarin sensitivity
Endometrial carcinoma
Cholesteryl ester storage disease
Tumor necrosis factor receptor superfamily, member 6
Autoimmune lymphoproliferative syndrome
Epidermolysis bullosa, generalized atrophic benign
Optic nerve coloboma with renal disease
Prostate cancer
Neurofibrosarcoma
Porphyria, congenital erythropoietic
Endometrial carcinoma
Gyrate atrophy of choroid and retina
Pancreatic lipase deficiency
Glaucoma
Pfeiffer syndrome
Apert syndrome
Saethre-Chotzen syndrome
Schizencephaly
Polykaryocytosis inducer (promoter)
Usher syndrome, autosomal recessive, severe

11 — 134 million base pairs

Freeman-Sheldon syndrome variant
Jansky-Bielschowsky disease
Diabetes mellitus, insulin-dependent
Sickle cell anemia
Thalassemias, beta
Erythremias, beta
Heinz body anemias, beta
HPFH, deletion type
Bladder cancer
Wilms tumor, type 2
Adrenocortical carcinoma, hereditary
Sjogren syndrome antigen
Niemann-Pick disease, types A and B
Osteoporosis
Persistent hyperinsulinemic hypoglycemia of infancy
Deafness, autosomal recessive
Charcot-Marie-Tooth disease, type 4B
Leukemia, T-cell acute lymphoblastic
Hepatitis B virus integration site
Hepatocellular carcinoma
Cerebrooculofacioskeletal syndrome
Opsonic defect
Aniridia
Peters anomaly
Cataract, congenital
Foveal hypoplasia, isolated
Keratitis
Severe combined immunodeficiency, B cell–negative
Reticulosis, familial histiocytic
Omenn syndrome
Wilms tumor, type 1
Denys-Drash syndrome
Frasier syndrome
Foramina parietalia permagna (Cattlin marks)
Exostoses, multiple
Suppression of tumorigenicity, prostate
Prostate cancer
Spinocerebellar ataxia
Hyperlipidemia, combined
Osteoarthritis susceptibility, female-specific
Xeroderma pigmentosum, group E, subtype 2
High bone mass
Osteoporosis-pseudoglioma syndrome
Parathyroid adenomatosis
Centrocytic lymphoma
Multiple myeloma
Mammary tumor and squamous cell carcinoma
Anemia, pernicious, congenital
Multiple endocrine neoplasia
Hyperparathyroidism
Prolactinoma, carcinoid syndrome
Asthma, atopic, susceptibility to
Leukemia, acute promyelocytic
Retinitis pigmentosa, digenic
Cervical carcinoma
Macular dystrophy, vitelliform type (Best disease)
Spinal muscular atrophy with respiratory distress
Paraganglioma or familial glomus tumors
Folate receptor, adult
T-cell immune regulator
Osteopetrosis, recessive
Leukemia, acute myeloid and T-cell lymphoblastic
Ataxia-telangiectasia-like disorder
Apoptosis inhibitor
Deafness, autosomal dominant and recessive
Phenylketonuria
Hypertriglyceridemia
Immunodeficiency
Erythrocytosis, autosomal recessive benign
Glycogen storage disease
Jacobsen syndrome
Paraganglioma, familial nonchromaffin
Herpes virus entry mediator
Epstein-Barr virus modification site
Serotonin receptor
Porphyria, acute intermittent

12 — 132 million base pairs

Dentatorubro-pallidoluysian atrophy
Emphysema
Alzheimer disease, susceptibility to
Inflammatory bowel disease
Leukemia, acute lymphoblastic
Hypertension, essential
Hypertension, susceptibility to
Hypertension, susceptibility to
Hypertension, susceptibility to