patient ID	# of genes to rank	causal gene	disease name
DDDP111513	271	PTPN11	NOONAN SYNDROME 1; NS1
DDDP111250	330	NSD1	SOTOS SYNDROME 1; SOTOS1
DDDP111703	293	ARID1B	COFFIN-SIRIS SYNDROME; CSS
DDDP109352	262	PAK3	MENTAL RETARDATION, X-LINKED 30; MRX30
DDDP108105	209	SATB2	GLASS SYNDROME; GLASS
DDDP108103	268	ANKRD11	KBG SYNDROME; KBGS
DDDP108825	235	VPS13B	COHEN SYNDROME; COH1
DDDP110890	264	CTCF	MENTAL RETARDATION, AUTOSOMAL DOMINANT 21; MRD21
DDDP111227	277	GNAO1	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 17; EIEE17
DDDP109995	323	WDR45	NEURODEGENERATION WITH BRAIN IRON ACCUMULATION 5; NBIA5
DDDP111423	285	SCN2A	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 11; EIEE11
DDDP111428	245	BBS7	BARDET-BIEDL SYNDROME 7; BBS7
DDDP110121	384	KMT2A	HAIRY ELBOWS, SHORT STATURE, FACIAL DYSMORPHISM, AND DEVELOPMENTALDELAY
DDDP110758	285	KMT2D	KABUKI SYNDROME 1; KABUK1
DDDP104795	284	RAB3GAP2	MARTSOLF SYNDROME
DDDP111211	223	ABCC9	HYPERTRICHOTIC OSTEOCHONDRODYSPLASIA
DDDP103048	255	KDM6A	KABUKI SYNDROME 1; KABUK1
DDDP103044	253	KMT2A	HAIRY ELBOWS, SHORT STATURE, FACIAL DYSMORPHISM, AND DEVELOPMENTALDELAY
DDDP110753	302	DHCR7	SMITH-LEMLI-OPITZ SYNDROME; SLOS
DDDP100285	266	DYRK1A	MENTAL RETARDATION, AUTOSOMAL DOMINANT 7; MRD7
DDDP100284	292	TCF4	PITT-HOPKINS SYNDROME; PTHS
DDDP106745	329	EZH2	WEAVER SYNDROME
DDDP100281	278	GNAO1	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 17; EIEE17
DDDP111266	244	CASK	MENTAL RETARDATION AND MICROCEPHALY WITH PONTINE AND CEREBELLAR HYPOPLASIA;MICPCH
DDDP100161	233	SMARCA2	NICOLAIDES-BARAITSER SYNDROME; NCBRS
DDDP109893	272	SCN8A	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 13; EIEE13
DDDP106720	233	DYRK1A	MENTAL RETARDATION, AUTOSOMAL DOMINANT 7; MRD7
DDDP111178	244	KCNQ2	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 7; EIEE7
DDDP111262	278	SYNGAP1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 5; MRD5
DDDP111027	286	CREBBP	RUBINSTEIN-TAYBI SYNDROME 1; RSTS1
DDDP102589	316	KCNQ2	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 7; EIEE7
DDDP100264	283	DDHD2	SPASTIC PARAPLEGIA 54, AUTOSOMAL RECESSIVE; SPG54
DDDP101851	693	KCNQ2	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 7; EIEE7
DDDP101852	235	EP300	RUBINSTEIN-TAYBI SYNDROME 1; RSTS1
DDDP101854	204	ATP1A3	ALTERNATING HEMIPLEGIA OF CHILDHOOD 2; AHC2
DDDP110748	296	ANKRD11	KBG SYNDROME; KBGS
DDDP111596	312	CREBBP	RUBINSTEIN-TAYBI SYNDROME 1; RSTS1
DDDP111627	328	BRAF	CARDIOFACIOCUTANEOUS SYNDROME 1; CFC1
DDDP100175	214	STXBP1	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 4; EIEE4
DDDP108234	330	EXOSC3	PONTOCEREBELLAR HYPOPLASIA, TYPE 1B; PCH1B
DDDP105394	250	EP300	RUBINSTEIN-TAYBI SYNDROME 1; RSTS1
DDDP110896	231	BCOR	MICROPHTHALMIA, SYNDROMIC 2; MCOPS2
DDDP111317	240	ANKRD11	KBG SYNDROME; KBGS
DDDP110970	295	ARID1B	COFFIN-SIRIS SYNDROME; CSS
DDDP101224	279	SYNGAP1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 5; MRD5
DDDP102114	249	WDR45	NEURODEGENERATION WITH BRAIN IRON ACCUMULATION 5; NBIA5
DDDP102111	292	SCN2A	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 11; EIEE11
DDDP102110	259	CTCF	MENTAL RETARDATION, AUTOSOMAL DOMINANT 21; MRD21
DDDP102206	210	ATRX	MENTAL RETARDATION-HYPOTONIC FACIES SYNDROME, X-LINKED, 1; MRXHF1
DDDP102051	450	KAT6B	GENITOPATELLAR SYNDROME; GTPTS
DDDP102052	332	ARID1B	COFFIN-SIRIS SYNDROME; CSS
DDDP100091	234	KDM6A	KABUKI SYNDROME 2; KABUK2
DDDP109873	295	EP300	RUBINSTEIN-TAYBI SYNDROME 2; RSTS2
DDDP111249	256	TYR	ALBINISM, OCULOCUTANEOUS, TYPE IA; OCA1A
DDDP102820	301	CTCF	MENTAL RETARDATION, AUTOSOMAL DOMINANT 21; MRD21
DDDP100030	241	RTTN	POLYMICROGYRIA WITH SEIZURES; PMGYS
DDDP101866	253	MED13L	TRANSPOSITION OF THE GREAT ARTERIES, DEXTRO-LOOPED 1; DTGA1
DDDP101867	334	KCNQ2	SEIZURES, BENIGN FAMILIAL NEONATAL, 1; BFNS1EPILEPSY, BENIGN NEONATAL, 1, AND/OR MYOKYMIA, INCLUDED
DDDP105999	229	MED13L	TRANSPOSITION OF THE GREAT ARTERIES, DEXTRO-LOOPED 1; DTGA1
DDDP101863	297	MYCN	FEINGOLD SYNDROME 1; FGLDS1
DDDP111096	213	B4GALT7	EHLERS-DANLOS SYNDROME, PROGEROID FORM
DDDP105140	348	B4GALT7	EHLERS-DANLOS SYNDROME, PROGEROID FORM
DDDP107286	269	NALCN	HYPOTONIA, INFANTILE, WITH PSYCHOMOTOR RETARDATION AND CHARACTERISTICFACIES; IHPRF
DDDP106875	232	PAK3	MENTAL RETARDATION, X-LINKED 30; MRX30
DDDP105223	235	CHD2	EPILEPTIC ENCEPHALOPATHY, CHILDHOOD-ONSET; EEOC
DDDP102297	237	CAMTA1	CEREBELLAR ATAXIA, NONPROGRESSIVE, WITH MENTAL RETARDATION; CANPMR

DDDP102294	267	TCF4	PITT-HOPKINS SYNDROME; PTHS
DDDP111001	236	DYRK1A	MENTAL RETARDATION, AUTOSOMAL DOMINANT 7; MRD7
DDDP106701	390	SMARCA4	MENTAL RETARDATION, AUTOSOMAL DOMINANT 16; MRD16
DDDP111271	451	CTNNB1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 19; MRD19
DDDP100128	246	NSD1	SOTOS SYNDROME 1; SOTOS1
DDDP105431	238	SYNGAP1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 5; MRD5
DDDP112652	211	CASK	MENTAL RETARDATION AND MICROCEPHALY WITH PONTINE AND CEREBELLAR HYPOPLASIA;MICPCH
DDDP102726	371	SMC1A	CORNELIA DE LANGE SYNDROME 2; CDLS2
DDDP111081	247	MECP2	RETT SYNDROME; RTT
DDDP106981	317	SMARCA2	NICOLAIDES-BARAITSER SYNDROME; NCBRS
DDDP102680	322	ANKRD11	KBG SYNDROME; KBGS
DDDP111242	419	ITPR1	ANIRIDIA, CEREBELLAR ATAXIA, AND MENTAL DEFICIENCY
DDDP111487	337	GRIN2B	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 27; EIEE27
DDDP108896	231	SATB2	GLASS SYNDROME; GLASS
DDDP110720	239	EXOSC3	PONTOCEREBELLAR HYPOPLASIA, TYPE 1B; PCH1B
DDDP107459	259	SMARCB1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 15; MRD15
DDDP110722	256	SYNGAP1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 5; MRD5
DDDP110872	339	SLC2A1	Not Found
DDDP108067	299	KMT2A	HAIRY ELBOWS, SHORT STATURE, FACIAL DYSMORPHISM, AND DEVELOPMENTALDELAY
DDDP100136	267	PHF8	X-LINKED INTELLECTUAL DISABILITY, SIDERIUS TYPE
DDDP103122	255	STXBP1	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 4; EIEE4
DDDP111265	282	SCN2A	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 11; EIEE11
DDDP106414	292	SCN1A	DRAVET SYNDROME
DDDP102389	252	ITPR1	ANIRIDIA, CEREBELLAR ATAXIA, AND MENTAL DEFICIENCY
DDDP102221	278	ARID1B	COFFIN-SIRIS SYNDROME; CSS
DDDP102138	243	STXBP1	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 4; EIEE4
DDDP111468	271	SATB2	GLASS SYNDROME; GLASS
DDDP111375	308	STAMBP	MICROCEPHALY-CAPILLARY MALFORMATION SYNDROME; MICCAP
DDDP103552	262	SATB2	GLASS SYNDROME; GLASS
DDDP111463	228	WDR45	NEURODEGENERATION WITH BRAIN IRON ACCUMULATION 5; NBIA5
DDDP109404	387	ATRX	MENTAL RETARDATION-HYPOTONIC FACIES SYNDROME, X-LINKED, 1; MRXHF1
DDDP110794	237	FOXP1	MENTAL RETARDATION WITH LANGUAGE IMPAIRMENT AND WITH OR WITHOUT AUTISTICFEATURES
DDDP110796	243	ARID1B	COFFIN-SIRIS SYNDROME; CSS
DDDP111286	263	KANSL1	KOOLEN-DE VRIES SYNDROME; KDVS
DDDP110962	289	CHD2	EPILEPTIC ENCEPHALOPATHY, CHILDHOOD-ONSET; EEOC
DDDP110961	292	ALG13	CONGENITAL DISORDER OF GLYCOSYLATION, TYPE IS; CDG1S
DDDP110717	315	PACS1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 17; MRD17
DDDP108441	252	FOXP1	MENTAL RETARDATION WITH LANGUAGE IMPAIRMENT AND WITH OR WITHOUT AUTISTICFEATURES
DDDP107584	229	CDT1	MEIER-GORLIN SYNDROME 4; MGORS4
DDDP110713	229	PACS1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 17; MRD17
DDDP103710	256	CTNNB1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 19; MRD19
DDDP105749	335	CTNNB1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 19; MRD19
DDDP111350	286	STXBP1	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 4; EIEE4
DDDP110825	253	EHMT1	KLEEFSTRA SYNDROME
DDDP111151	249	TBL1XR1	%602342 PLANTAR LIPOMATOSIS, UNUSUAL FACIES, AND DEVELOPMENTAL DELAY
DDDP111298	311	MED13L	TRANSPOSITION OF THE GREAT ARTERIES, DEXTRO-LOOPED 1; DTGA1
DDDP107978	264	ARID1B	COFFIN-SIRIS SYNDROME; CSS
DDDP102313	258	KANSL1	KOOLEN-DE VRIES SYNDROME; KDVS
DDDP102140	315	ANKRD11	KBG SYNDROME; KBGS
DDDP111219	283	SOX2	MICROPHTHALMIA, SYNDROMIC 3
DDDP111106	209	SCN2A	SEIZURES, BENIGN FAMILIAL INFANTILE, 3; BFIS3
DDDP111459	295	MED13L	TRANSPOSITION OF THE GREAT ARTERIES, DEXTRO-LOOPED 1; DTGA1
DDDP110983	360	MED13L	TRANSPOSITION OF THE GREAT ARTERIES, DEXTRO-LOOPED 1; DTGA1
DDDP111456	266	DYRK1A	MENTAL RETARDATION, AUTOSOMAL DOMINANT 7; MRD7
DDDP102251	223	KIF1A	MENTAL RETARDATION, AUTOSOMAL DOMINANT 9; MRD9
DDDP111217	251	NSD1	SOTOS SYNDROME 1; SOTOS1
DDDP110784	259	BBS2	BARDET-BIEDL SYNDROME 2; BBS2
DDDP105451	308	COL1A1	OSTEOGENESIS IMPERFECTA, TYPE I
DDDP102547	366	KMT2A	HAIRY ELBOWS, SHORT STATURE, FACIAL DYSMORPHISM, AND DEVELOPMENTALDELAY
DDDP105767	233	PACS1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 17; MRD17
DDDP105217	296	GJA8	CATARACT, ZONULAR PULVERULENT 1
DDDP110659	223	MECP2	RETT SYNDROME; RTT
DDDP105214	326	RARS2	PONTOCEREBELLAR HYPOPLASIA, TYPE 6; PCH6
DDDP111187	242	KCTD7	EPILEPSY, PROGRESSIVE MYOCLONIC 3, WITH OR WITHOUT INTRACELLULAR INCLUSIONS;EPM3
DDDP108148	317	CTNNB1	OVARIAN CANCEROVARIAN CANCER, EPITHELIAL, INCLUDED
DDDP102594	249	SLC9A6	MENTAL RETARDATION, X-LINKED, SYNDROMIC, CHRISTIANSON TYPE; MRXSCH
DDDP104896	247	NIPBL	CORNELIA DE LANGE SYNDROME 1; CDLS1

DDDP108415	307	TCOF1	TREACHER COLLINS SYNDROME 1; TCS1
DDDP100213	371	MECP2	ENCEPHALOPATHY, NEONATAL SEVERE, DUE TO MECP2 MUTATIONS
DDDP101100	272	KAT6B	GENITOPATELLAR SYNDROME; GTPTS
DDDP111119	335	PACS1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 17; MRD17
DDDP103666	306	CASK	MENTAL RETARDATION AND MICROCEPHALY WITH PONTINE AND CEREBELLAR HYPOPLASIA;MICPCH
DDDP102497	231	SETBP1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 29; MRD29
DDDP111681	242	ANKRD11	KBG SYNDROME; KBGS
DDDP108556	248	MED12	OPITZ-KAVEGGIA SYNDROME; OKS
DDDP104617	197	SATB2	GLASS SYNDROME; GLASS
DDDP108492	230	DYRK1A	MENTAL RETARDATION, AUTOSOMAL DOMINANT 7; MRD7
DDDP111198	235	KAT6B	GENITOPATELLAR SYNDROME; GTPTS
DDDP111293	244	ANKRD11	KBG SYNDROME; KBGS
DDDP111486	237	CBL	NOONAN SYNDROME-LIKE DISORDER WITH OR WITHOUT JUVENILE MYELOMONOCYTICLEUKEMIA; NSLL
DDDP111190	265	SMAD4	MYHRE SYNDROME; MYHRS
DDDP110776	294	SYNGAP1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 5; MRD5
DDDP106936	215	ARID1B	COFFIN-SIRIS SYNDROME; CSS
DDDP111619	234	CHD7	CHARGE SYNDROME
DDDP111390	238	SATB2	GLASS SYNDROME; GLASS
DDDP102005	288	PTPN11	NOONAN SYNDROME 1; NS1
DDDP110800	275	HUWE1	MENTAL RETARDATION, X-LINKED, SYNDROMIC, TURNER TYPE; MRXST
DDDP105942	196	ARID1B	COFFIN-SIRIS SYNDROME; CSS
DDDP108406	298	SYNGAP1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 5; MRD5
DDDP112690	226	ANKRD11	KBG SYNDROME; KBGS
DDDP111322	276	NPHS1	NEPHROTIC SYNDROME, TYPE 1; NPHS1
DDDP105825	307	PAX2	PAPILLORENAL SYNDROME; PAPRS
DDDP111238	229	SYNGAP1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 5; MRD5
DDDP108836	229	CASK	MENTAL RETARDATION AND MICROCEPHALY WITH PONTINE AND CEREBELLAR HYPOPLASIA;MICPCH
DDDP101839	243	SPTAN1	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 5; EIEE5
DDDP107364	409	BRAF	CARDIOFACIOCUTANEOUS SYNDROME 1; CFC1
DDDP111515	283	FOXP1	MENTAL RETARDATION WITH LANGUAGE IMPAIRMENT AND WITH OR WITHOUT AUTISTICFEATURES
DDDP103071	301	CTNNB1	MENTAL RETARDATION, AUTOSOMAL DOMINANT 19; MRD19
DDDP107416	339	AUTS2	MENTAL RETARDATION, AUTOSOMAL DOMINANT 26; MRD26
DDDP112751	270	KCNQ2	EPILEPTIC ENCEPHALOPATHY, EARLY INFANTILE, 7; EIEE7
DDDP111346	333	ITPR1	ANIRIDIA, CEREBELLAR ATAXIA, AND MENTAL DEFICIENCY
DDDP111516	335	CC2D2A	COACH SYNDROME
DDDP110760	275	ARID1B	COFFIN-SIRIS SYNDROME; CSS