רשימת מחלות ומוטציות גירסה - 2 Ver (2020-10-22)
Hybrid Capture-Based Next Generation Sequencing

Mutation #	Gene: Disease Name {(Transcsript) "Mutation name"}
1	2p21:Hypotonia-cystinuria syndrome {"2p21"}
2 - 6	ABCA12:Ichthyosis, congenital, Autosomal Recessive 4A {(NM_173076.3) "c.1060C>T", "c.179G>C", "c.3456G>A", "c.4544G>A", "c.4553G>A"}
7 - 7	ABCA3:Congenital surfactant deficiency (Surfactant metabolism dysfunction, pulmonary, 3) {(NM_001089) "c.1474dupT"}
8 - 13	ABCA4:Cone-rod dystrophy 3 {(NM_000350.3) "c.1648G>A", "c.2791G>T", "c.3607G>A", "c.3608G>A", "c.5460+1G>A", "c.834delT"}
14 - 16	ABCB11:Cholestasis, progressive familial intrahepatic type 2 {(NM_003742) "c.1100_1101insTA" | (NM_003742.4) "c.1409G>A", "c.3268C>T"}
17 - 22	ABCC8:Hyperinsulinemic hypoglycemia, familial, 1 (PHHI/HHF1) {(NM_000352) "c.3339dupG" | (NM_000352.4) "c.1116dupT", "c.2506C>T", "c.3989-9G>A", "c.4160_4162delTCT", "c.560T>A"}
23 - 23	ABCD1:X-linked adrenoleukodystrophy {(NM_000033.4) "c.686T>C"}
24 - 25	ABHD5:Chanarin-Dorfman syndrome {(NM_016006.6) "c.412T>C", "c.934C>T"}
26 - 26	ACADM:Medium chain acyl CoA dehydrogenase deficiency MCAD {(NM_000016.5) "c.1010A>C"}
27 - 36	ACADM:Medium-chain Acyl-CoA dehydrogenase deficiency {(NM_000016.5) "c.1045C>T", "c.1257C>A", "c.362C>T", "c.415_419delGATCA", "c.431_434delAGTA", "c.454G>T", "c.616C>T", "c.621_624delTGAT", "c.799G>A", "c.985A>G"}
37 - 45	ACADVL:Acyl-CoA dehydrogenase, very long-chain, VLCAD deficiency {(NM_000018.4) "c.1096C>T", "c.1748C>T", "c.260T>C", "c.367G>A", "c.637G>A", "c.65C>A", "c.779C>T", "c.799_802delGTTA", "c.894G>A"}
46 - 46	ACO2:Infantile cerebellar-retinal degeneration {(NM_001098.3) "c.336C>G"}
47 - 48	ACP5:Spondyloenchondrodysplasia with immune dysregulation {(NM_001111035) "c.772_790del" | (NM_001111035.2) "c.325G>A"}
49 - 49	ACSF3:Combined malonic and methylmalonic aciduria {(NM_174917) "c.1411C>T"}
50 - 51	ADA:Severe combined immunodeficiency due to ADA deficiency {(NM_000022.4) "c.703C>T", "c.792G>A"}
52 - 52	ADAM9:cone-rod dystrophy 9 {(NM_003816) "c.1087T>A"}
53 - 54	ADAMTS2:Ehlers Danlos syndrome, type VIIC {(NM_014244.5) "c.2384G>A", "c.673C>T"}
55 - 59	ADGRG1:Bilateral Frontoparietal Polymicrogyria (BFPP) {(NM_005682.7) "c.1036T>A", "c.1046G>C", "c.1167+3G>C", "c.1693C>T", "c.739_745delCAGGACC"}
60 - 61	ADGRV1:Usher syndrome, type 2C {(NM_032119.4) "c.14973-2A>G", "c.15494delA"}
62 - 62	AGA:Aspartylglucosaminuria {(NM_000027.4) "c.214T>C"}
63 - 67	AGL:Glycogen storage disease III {(NM_000642.3) "c.1078C>T", "c.1222C>T", "c.2812+2dupT", "c.3652C>T", "c.4456delT"}
68 - 80	AGXT:Hyperoxaluria, primary, type I {(NM_000030.3) "c.121G>A",

	"c.33dupC", "c.466G>A", "c.584T>G", "c.586G>A", "c.680+1G>A", "c.697C>T", "c.727G>C", "c.731T>C", "c.860_861delGCinsCG", "c.865C>T", "c.893T>C", "c.997A>T"}
81 - 83	AHI1:Joubert syndrome-3 {(NM_017651.4) "c.2212C>T", "c.3032C>G", "c.787dupC"}
84 - 84	AIMP1:Leukodystrophy, hypomyelinating, 3 {(NM_004757.3) "c.292_293delCA"}
85 - 87	AIPL1:Leber congenital amaurosis 4 {(NM_014336.5) "c.211G>T", "c.215G>A", "c.834G>A"}
88 - 93	AIRE:Autoimmune polyendocrinopathy syndrome , type I (APS-1) with or without reversible metaphyseal dysplasia {(NM_000383.4) "c.1163_1164insA", "c.247A>G", "c.254A>G", "c.44G>A", "c.47C>T", "c.769C>T"}
94 - 94	ALDH1A3:Microphthalmia, isolated 8 {(NM_000693.4) "c.211G>A"}
95 - 95	ALDH7A1:Epilepsy, pyridoxine-dependent {(NM_001182.5) "c.1489+5G>A"}
96 - 103	ALDOB:Fructose intolerance {(NM_000035) "c.178C>T", "c.360_363delCAAA", "c.612T>A", "c.612T>G", "c.865delC" | (NM_000035.4) "c.1005C>G", "c.448G>C", "c.524C>A"}
104 - 104	ALMS1:Alstrom Syndrome {(NM_015120.4) "c.8171_8181del"}
105 - 106	ALMS1:Alstrom syndrome {(NM_015120.4) "c.8008C>T", "c.808C>T"}
107 - 109	ALPL:Hypophosphatasia, infantile {(NM_000478) "c.1337delC" | (NM_000478.6) "c.1348C>T", "c.141C>A"}
110 - 110	AMT:Glycine encephalopathy, AMT-related {(NM_000481.3) "c.125A>G"}
111 - 111	ANO5:Limb-girdle muscular dystrophy {(NM_213599.2) "c.191dupA"}
112 - 112	AP4B1:Spastic paraplegia 47, Autosomal Recessive {(NM_006594.4) "c.664delC"}
113 - 113	APTX:Ataxia, early-onset, with oculomotor apraxia and hypoalbuminemia {(NM_175073.2) "c.837G>A"}
114 - 115	AQP2:Diabetes insipidus, nephrogenic {(NM_000486.5) "c.298G>T", "c.83T>C"}
116 - 116	ARFGEF2:Periventricular heterotopia with microcephaly {(NM_006420.3) "c.1958+1G>A"}
117 - 117	ARHGDIA:Nephrotic syndrome, type 8 {(NM_004309.6) "c.518G>T"}
118 - 118	ARL6:Bardet-Biedl syndrome 3 {(NM_032146.5) "c.364C>T"}
119 - 132	ARSA:Metachromatic leukodystrophy - MLD {(NM_000487) "c.1114C>T" | (NM_000487.6) "c.1136C>T", "c.1174C>T", "c.1283C>T", "c.211T>G", "c.263G>A", "c.292_293delTCinsCT", "c.465+1G>A", "c.47G>A", "c.542T>G", "c.576G>C", "c.827C>T", "c.937C>T" | (NM_001085425.3) "c.449C>T"}
133 - 133	ARSG:Usher syndrome, type IV {(NM_014960) "c.133G>T"}
134 - 134	ASL:Argininosuccinic aciduria {(NM_000048.4) "c.346C>T"}
135 - 135	ASNS:Asparagine synthetase deficiency {(NM_183356.3) "c.1084T>G"}
136 - 139	ASPA:Canavan Disease {(NM_001128085.1) "c.433-2A>G", "c.693C>A", "c.854A>C", "c.914C>A"}
140 - 140	ASS1:Citrullinemia,classic {(NM_000050) "c.1168G>A"}
141 - 154	ATM:Ataxia-tyelangiectasia {(NM_000051) "c.1514T>C" | (NM_000051.3) "c.103C>T", "c.1339C>T", "c.1547T>C", "c.2284_2285delCT", "c.2839-579_2839-576del4", "c.3245_3247delATCinsTGAT", "c.3576G>A",

	"c.368delA", "c.497del7514", "c.5763-1050A>G", "c.6672_6680delGGCTCTACGinsCTC", "c.7241_7244delAAGC", "deletion_exon_3-4"}
155 - 155	ATP6V0A2:Cutis laxa, Autosomal Recessive, type IIA {(NM_012463.4) "c.2375C>G"}
156 - 178	ATP7B:Wilson disease {(NM_000053) "c.3007G>A", "c.3784G>T" | (NM_000053.3) "c.122A>G", "c.1340_1343delAAAC", "c.1544G>A", "c.1639delC", "c.1703T>G", "c.1934T>G", "c.2293G>A", "c.2333G>T", "c.2337G>A", "c.2817G>T", "c.2906G>A", "c.3191A>C", "c.3207C>A", "c.3451C>T", "c.3551T>C", "c.3638G>T", "c.3649_3654delGTTCTG", "c.3659C>T", "c.3842G>A", "c.4152T>G", "c.845delT"}
179 - 180	ATP8B1:Cholestasis, progressive familial intrahepatic 1 {(NM_005603) "c.2854C>T", "c.3673delC"}
181 - 181	AVP:Familial neurohypophyseal diabetes insipidus {(NM_000490) "c.77C>T"}
182 - 182	B3GALNT2:Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies, type A, 11) {(NM_152490.5) "c.236-1G>C"}
183 - 183	B4GALT1:Congenital disorder of glycosylation, type IId {(NM_001497) "c.61C>T"}
184 - 186	BBS10:Bardet-Biedl syndrome 10 {(NM_024685.4) "c.1091delA", "c.1399delA", "c.271dupT"}
187 - 188	BBS1:Bardet-Biedl syndrome 1 {(NM_024649.5) "c.1169T>G", "c.479G>A"}
189 - 193	BBS2:Bardet-Biedl syndrome 2 {(NM_031885.4) "c.1895G>C", "c.224T>G", "c.311A>C", "c.401C>G", "c.98C>A"}
194 - 195	BBS4:Bardet-Biedl syndrome 4 {(NM_033028.5) "c.77-1422_221-753del ", "c.884G>C"}
196 - 196	BBS7:Bardet-Biedl syndrome 7 {(NM_176824.3) "c.1786G>A"}
197 - 198	BBS9:Bardet-Biedl syndrome 9 {(NM_014451) "c.1063C>T", "c.1669+1G>A"}
199 - 205	BCKDHA:Maple syrup urine disease, type Ia {(NM_000709.4) "c.169delG", "c.718del", "c.792C>G", "c.859C>T", "c.890G>A", "c.909_910delGT", "c.935_937del"}
206 - 212	BCKDHB:Maple syrup urine disease, type Ib {(NM_000056.4) "c.1016C>T", "c.1114G>T", "c.356T>G", "c.548G>C", "c.670C>T", "c.800_803delAGGA", "c.832G>A"}
213 - 219	BLM:Bloom syndrome {(NM_000057) "c.1642C>T", "c.2512C>T" | (NM_000057.4) "c.1984_1985delAA", "c.2207_2212delATCTGAinsTAGATTC", "c.2407dupT", "c.3510T>A", "c.98+1G>T"}
220 - 220	BMPER:Diaphanospondylodysostosis {(NM_133468.5) "c.310C>T"}
221 - 221	BMPR1B:Brachydactyly type A2 {(NM_001256793.2) "c.377G>A"}
222 - 223	BSND:Bartter syndrome, type 4a infantile variant with sensorineuronal deafness {(NM_057176.3) "c.167_168insTTTCCC", "c.28G>A"}
224 - 225	BTD:Biotinidase deficiency {(NM_000060) "c.393delC" | (NM_000060.4) "c.100G>A"}
226 - 228	C12ORF65:Spastic paraplegia 55, Autosomal Recessive {(NM_152269) "c.346delG" | (NM_152269.5) "c.282+2T>A", "c.413_417delAACAA"}
229 - 229	C21orf59:Ciliary dyskinesia, primary, 26 {(NM_021254.4) "c.735C>G"}
230 - 235	C2ORF71:Retinitis pigmentosa 54 {(NM_001029883) "c.2334T>A", "c.2756_2768delAGCCAGCCCTGGA", "c.3289C>T", "c.478_479insA", "c.556C>T", "c.776_777delAG"}

236 - 238	C8orf37:Retinitis pigmentosa 64 {(NM_177965.4) "c.497T>A", "c.529C>T", "c.545A>G"}
239 - 241	CAPN3:Muscular dystrophy, limb-girdle, type 2A {(NM_000070) "c.1076C>T", "c.1469G>A", "c.367C>A"}
242 - 242	CASQ2:Ventricular tachycardia, catecholaminergic polymorphic, 2 {(NM_001232.3) "c.919G>C"}
243 - 243	CBS:Homocystinuria {(NM_001178008.2) "c.919G>A"}
244 - 248	CBS:Homocystinuria, thrombosis, hyperhomocysteinemic {(NM_000071.2) "c.1006C>T", "c.1224-2A>C", "c.1261delG", "c.785C>G", "c.833T>C"}
249 - 249	CC2D1A:Mental retardation, Autosomal Recessive 3 - MRT3 {(NM_017721.5) "c.1468+1_1824-1del"}
250 - 250	CC2D2A:Mental retardation, Autosomal Recessive 3 - MRT3 {(NM_001080522) "c.308delG"}
251 - 251	CCDC114:Ciliary dyskinesia, primary, 20 {(NM_144577) "c.939delT"}
252 - 252	CCDC174:Birk Volodarsky PMR Synderome Hypotonia and psychomotor developmental delay {(NM_016474.5) "c.1404A>G"}
253 - 253	CCDC65:Ciliary dyskinesia, primary, 27 {(NM_033124.5) "c.877_878delAT"}
254 - 254	CCDC88C:Hydrocephalus, nonsyndromic, Autosomal Recessive {(NM_001080414.4) "c.934C>T"}
255 - 258	CCNO:Ciliary dyskinesia, primary, 29 {(NM_021147) "c.165delC", "c.258_262dupGGCCC", "c.481_482delCT", "c.638T>C"}
259 - 259	CD59:Hemolytic anemia & immune-mediated polyneuropathy, CD59-related {(NM_203330.2) "c.266G>A"}
260 - 260	CDAN1:Dyserythropoietic anemia, congenital, type Ia {(NM_138477.4) "c.3124C>T"}
261 - 261	CDH23:Usher Syndrome Type ID {(NM_022124.6) "c.7903G>T"}
262 - 262	CDK10:Al Kaissi syndrome {(NM_052988) "c.870_871del"}
263 - 263	CDK5:Lissencephaly 7 with cerebellar hypoplasia {(NM_004935.4) "c.580+1G>A"}
264 - 264	CEACAM16:Deafness, autosomal recessive {(NM_001039213) "c.703C>T"}
265 - 266	CECR1:Adenosine deaminase 2 deficency {(NM_001282225.2) "c.140_141insT", "c.781delGinsCCATA"}
267 - 267	CECR1:Polyarteritis nodosa, childhood-onset {(NM_001282225.2) "c.139G>A"}
268 - 268	CENPJ:Microcephaly, primary, Autosomal Recessive {(NM_018451.5) "c.3243_3246delTCAG"}
269 - 269	CEP104:Joubert syndrome (JBTS) {(NM_014704.4) "c.1328_1329insT"}
270 - 270	CEP152:Microcephaly 9, primary, Autosomal Recessive {(NM_014985.3) "c.2281-2A>G"}
271 - 279	CEP290:Meckel syndrome 4 {(NM_025114) "c.5668G>T", "c.5824C>T", "c.6760A>T" | (NM_025114.3) "c.1225delA", "c.164_167delCTCA", "c.1666delA", "c.4393C>T", "c.4771C>T", "c.5788A>T"}
280 - 280	CERKL:Retinitis pigmentosa 26 {(NM_001030311.2) "c.238+1G>A"}
281 - 281	CFH:Hemolytic uremic syndrome, complement factor H deficiency {(NM_000186.3) ":c.3677_*4del"}
282 - 711	CFTR:Cystic fibrosis {(NM_000492) "c.220C>T", "c.54-5811_164+2186del8108ins182" | (NM_000492.3) "c.1000C>T", "c.1001G>A",

	"c.1007T>A", "c.1013C>T", "c.1021T>C", "c.1021_1022dupTC", "c.1040G>A", "c.1040G>C", "c.1040G>T", "c.1055G>A", "c.1075C>A", "c.1081delT", "c.1116+1G>A", "c.1130dupA", "c.1155_1156dupTA", "c.115C>T", "c.11C>A", "c.1202G>A", "c.1203G>A", "c.1209+1G>A", "c.1240C>T", "c.1327_1330dupGATA", "c.1340delA", "c.1364C>A", "c.137C>A", "c.1393-1G>A", "c.1397C>A", "c.1397C>G", "c.1400T>C", "c.1418delG", "c.1438G>T", "c.1439G>A", "c.1466C>A", "c.1475C>T", "c.1477C>T", "c.1521_1523delCTT", "c.1545_1546delTA", "c.1558G>A", "c.1558G>T", "c.1572C>A", "c.1573C>T", "c.1585-1G>A", "c.1585-8G>A", "c.1624G>T", "c.1625G>A", "c.1645A>C", "c.1646G>A", "c.1646G>T", "c.1647T>G", "c.165-1G>A", "c.1650delA", "c.1651G>A", "c.1652G>A", "c.1654C>T", "c.1657C>T", "c.166G>A", "c.1673T>C", "c.1675G>A", "c.1679+1634A>G", "c.1679+1G>C", "c.1679G>A", "c.1679G>C", "c.1680-1G>A", "c.1682C>A", "c.1692delA", "c.1736A>G", "c.1753G>T", "c.175dupA", "c.1766+1G>A", "c.1766+1G>C", "c.1766+3A>G", "c.1766+5G>T", "c.178G>T", "c.1817_1900del84", "c.1841A>G", "c.1911delG", "c.1923_1931delCTCAAAACTinsA", "c.1973_1985delGAAATTCAATCCTinsAGAAA", "c.1976delA", "c.1986_1989delAACT", "c.1A>G", "c.200C>T", "c.2012delT", "c.2051_2052delAAinsG", "c.2052_2053insA", "c.2052delA", "c.2089dupA", "c.2125C>T", "c.2128A>T", "c.2175dupA", "c.2195T>G", "c.2215delG", "c.223C>T", "c.2290C>T", "c.233dupT", "c.2353C>T", "c.2374C>T", "c.2423_2424dupAT", "c.2453delT", "c.2463_2464delTG", "c.2464G>T", "c.2490+1G>A", "c.2491G>T", "c.2537G>A", "c.2547C>A", "c.254G>A", "c.2551C>T", "c.2583delT", "c.2619+1G>A", "c.2619+2dupT", "c.262_263delTT", "c.2657+2_2657+3insA", "c.2657+5G>A", "c.2658-1G>C ", "c.2668C>T", "c.273+1G>A", "c.273+3A>C", "c.2737_2738insG", "c.2739T>A", "c.274-1G>A", "c.274G>A", "c.274G>T", "c.2763_2764dupAG", "c.2780T>C", "c.2834C>T", "c.2856G>C", "c.2875delG", "c.2908G>C", "c.292C>T", "c.2930C>T", "c.2988+1173_c.3468+2111del8898", "c.2988+1G>A", "c.2988G>A", "c.2989-1G>A", "c.2989-977_3367+248del", "c.3002_3003delTG", "c.3039delC", "c.3041A>G", "c.3067_3072delATAGTG", "c.3139+10T>C", "c.313delA", "c.3140-26A>G", "c.3154T>G", "c.3160C>G", "c.3181G>C", "c.3194T>C", "c.3196C>T", "c.3197G>A", "c.3205G>A", "c.3208C>T", "c.3209G>A", "c.3222T>A", "c.3230T>C", "c.325_327delTATinsG", "c.3266G>A", "c.3276C>G", "c.328G>C", "c.3292T>C", "c.3299A>C", "c.3302T>A", "c.3310G>T", "c.343G>T", "c.3454G>C", "c.3469-2A>G", "c.3472C>T", "c.3484C>T", "c.349C>T", "c.350G>A", "c.3528delC", "c.3529A>T", "c.3532_3535dupTCAA", "c.3535_3538delACCA", "c.3587C>G", "c.3600delA", "c.3605delA", "c.3611G>A", "c.3612G>A", "c.3659delC", "c.366T>A", "c.3691delT ", "c.3700A>G", "c.3712C>T", "c.3718-1G>A", "c.3718-2477C>T", "c.3731G>A", "c.3744delA", "c.3752G>A", "c.3763T>C", "c.3764C>A", "c.3764C>T", "c.3773dupT", "c.3793G>A", "c.3808delG", "c.3846G>A", "c.3873+1G>A", "c.3883_3884insG", "c.3883_3886delATTT", "c.3883delA", "c.3889dupT", "c.3909C>G", "c.3937C>T", "c.3964-78_4242+577del", "c.4046G>A", "c.4077_4080delTGTTinsAA", "c.4111G>T", "c.413_415dupTAC", "c.416A>C", "c.416A>T", "c.4197_4198delCT", "c.422C>A", "c.4234C>T", "c.4242+1G>T", "c.4251delA", "c.4297G>A", "c.4300_4301dupAG", "c.4364C>G", "c.442delA", "c.487A>G", "c.489+1G>T", "c.523A>G", "c.531delT", "c.532G>A", "c.54-5940_273+10250del21Kb", "c.543_546delTAGT", "c.575A>G", "c.579+1G>T", "c.579+3A>G",

	"c.579+5G>A", "c.580-1G>T", "c.595C>T", "c.613C>T", "c.617T>G", "c.658C>T", "c.675T>A", "c.761delA", "c.803delA", "c.805_806delAT", "c.828C>A", "c.870-2A>G", "c.892delA", "c.933_935delCTT", "c.948delT", "c.988G>T", "c.[1075C>A;1079C>A]" | (NM_000492.4) "c.-9_14del23", "c.1001G>T", "c.1006_1007insG", "c.1029delC", "c.1037T>C", "c.1046C>T", "c.1054C>T", "c.1079C>A", "c.1117-1G>A", "c.1211delG", "c.1301_1307delCACTTCT", "c.1327G>T", "c.1358T>C", "c.1365_1366delGG", "c.1367T>C", "c.1373delG", "c.1393-2A>G", "c.1408G>C", "c.1408G>T", "c.1420G>A", "c.1477_1478delCA", "c.1487G>A", "c.14C>T", "c.1505T>C", "c.1519_1521delATC", "c.1538A>G", "c.1584+1G>A", "c.164+1G>A", "c.164+1G>T", "c.164+2T>C", "c.164+3_164+4insT", "c.1648G>T", "c.165-3C>T", "c.1670delC", "c.1679+1G>A", "c.1680-877G>T", "c.1680A>C", "c.1687T>A", "c.1687T>G", "c.169T>G", "c.1703delT", "c.1705T>G", "c.170G>A or c.171G>A", "c.1721C>A", "c.1724T>A", "c.174_177delTAGA", "c.1763A>T", "c.1766+1G>T", "c.178G>A", "c.1792_1798delAAAACTA", "c.1801A>T", "c.1826A>G", "c.1837G>A", "c.1853T>C", "c.1865G>A", "c.1882G>C or c.1882G>A", "c.1923_1931del9insA", "c.1943delA", "c.1973_1985del13insAGAAA", "c.2017G>T", "c.2053C>T", "c.2053dupC", "c.2143C>T", "c.2158C>T", "c.2241_2248delGATACTGC", "c.2249C>T", "c.2537G>A or c.2538G>A", "c.2589_2599delAATTTGGTGCT", "c.2601dupA", "c.263T>A", "c.263T>G", "c.2645G>A", "c.271G>A", "c.274-2A>G", "c.2770G>A", "c.2810dupT", "c.2825delT", "c.2855T>C", "c.2859_2890delACATTCTGTTCTTCAAGCACCTATGTCAACCC", "c.2896delA", "c.2900T>C", "c.2909G>A", "c.2936A>T", "c.296C>T", "c.2989-2A>G", "c.3011_3019delCTATAGCAG or c.3009_3017delAGCTATAGC", "c.3017C>A", "c.3039dupC", "c.3047T>C", "c.305T>G", "c.3095A>G", "c.3107C>A", "c.310delA", "c.3124C>T", "c.3139_3139+1delGG", "c.3217dupT", "c.3220T>C", "c.3222T>G", "c.3276C>A", "c.3293G>A or c.3294G>A", "c.3294G>C or c.3294G>T", "c.3297C>A", "c.3302T>G", "c.3304A>T", "c.330C>A", "c.3353C>T", "c.3368-2A>G", "c.3435G>A", "c.3458T>A", "c.3468+2dupT", "c.3468+5G>A", "c.3468G>A", "c.3475T>C", "c.3476C>T", "c.3485G>T", "c.349C>G", "c.350G>C", "c.350G>T", "c.358G>A", "c.3717+40A>G", "c.3717+4A>G", "c.3717+5G>A", "c.3717G>A", "c.3718-3T>G", "c.3719T>G", "c.3737C>T", "c.3745G>A", "c.3747delG", "c.3761T>G", "c.377G>A", "c.3806T>A", "c.3848G>T", "c.3872A>G", "c.3873+2T>C", "c.3873G>C", "c.3891dupT", "c.38C>T", "c.3908delA", "c.3971T>C", "c.3988C>T", "c.4004T>C", "c.4036_4042del", "c.4086dupT", "c.4097T>A", "c.409delC", "c.4124A>C", "c.4127_4131delTGGAT", "c.4144C>T", "c.4147dupA", "c.416A>G", "c.4231C>T", "c.4242+1G>A", "c.4426C>T", "c.44T>C", "c.470_483delTTAGTTTGATTTAT", "c.481T>G", "c.489+3A>G", "c.494T>C", "c.4C>T", "c.50delT", "c.53+1G>T", "c.571T>G", "c.577G>T", "c.57G>A", "c.580G>A", "c.581G>T", "c.601G>A", "c.647G>A", "c.680T>G", "c.695T>A", "c.709C>G", "c.717delG", "c.772A>G", "c.794T>G", "c.79G>A", "c.79G>T", "c.825C>G", "c.850dupA", "c.861_865delCTTAA", "c.88C>T", "c.92G>T", "c.933C>G", "c.941G>A", "c.987delA"}
712 - 715	CHRNE:Myasthenic syndrome, congenital, 4B, fast-channel {(NM_000080) "c.1161_1162insT", "c.1353dupG", "c.187_188insC", "c.637dupG"}
716 - 719	CLCN1:Myotonia congenita, Autosomal Recessive {(NM_000083) "c.1444G>A", "c.1586C>T", "c.568_569delGGinsTC", "c.803C>T"}

720 - 721	CLCN1:Myotonia congenita,Autosomal Recessive {(NM_000083) "c.1012C>T", "c.1437_1450del"}
722 - 727	CLCN5:Proteinuria, low molecular weight, with hypercalciuric nephrocalcinosis {(NM_000084.4) "c.1245delG", "c.1399C>T", "c.161dup", "c.1909C>T", "c.258delA", "c.82C>T"}
728 - 729	CLCNKB:Bartter syndrome, type 3 and Gitelman syndrome {(NM_000085) "c.1830G>A" | (NM_000085.4) "c.1313G>A"}
730 - 730	CLN5:Ceroid lipofuscinosis, neuronal, 5 {(NM_006493.3) "c.672delG"}
731 - 732	CLN6:Ceroid lipofuscinosis, neuronal, 6 {(NM_017882) "c.843G>A" | (NM_017882.3) "c.214G>T"}
733 - 733	CLN8:Neuronal ceroid lipofuscinosis type 8, including northern epilepsy {(NM_018941.3) "c.766C>G"}
734 - 737	CLRN1:Usher syndrome, type 3A {(NM_174878.2) "c.144T>G", "c.349_358del", "c.433+1G>A", "c.528T>G"}
738 - 739	CNGA1:Retinitis pigmentosa 49 {(NM_000087) "c.1540C>T", "c.94C>T"}
740 - 748	CNGA3:Achromatopsia-2 - total color blindness {(NM_001298) "c.1294delG", "c.1306C>T", "c.829C>T" | (NM_001298.2) "c.1114C>T", "c.1585G>A", "c.1640T>G", "c.67C>T", "c.940_942delATC", "c.985G>T"}
749 - 750	CNGB1:Retinitis pigmentosa 45 {(NM_001297) "c.2760G>A" | (NM_001297.5) "c.2284C>T"}
751 - 758	CNGB3:Achromatopsia-3,macular degeneration, juvenile {(NM_019098) "c.1207C>T", "c.2328delC", "c.41_42dupTA", "c.467C>T", "c.819delC" | (NM_019098.4) "c.1006G>T", "c.1148delC", "c.644-1G>C"}
759 - 760	CNNM4:Jalili syndrome {(NM_020184.4) "c.1813C>T", "c.599C>A"}
761 - 761	CNTNAP1:Lethal congenital contracture syndrome 7 {(NM_003632) "c.2015G>A"}
762 - 762	COL11A2:Otospondylomegaepiphyseal dysplasia (ZW) {(NM_080680.2) "c.3991C>T"}
763 - 767	COL17A1:Epidermolysis bullosa, junctional, {(NM_000494) "c.2226insTGGA", "c.3676C>T", "c.3766+1G>A", "c.4145_4148delAGAG", "c.737_738insA"}
768 - 771	COL4A3:Alport Syndrome, COL4A3-Related {(NM_000091.4) "c.1791_1793dupTCC", "c.227delG", "c.3518-2A>G", "c.4649T>G"}
772 - 773	COL4A4:Alport syndrome, COL4A4-Related {(NM_000092.4) "c.3933C>G", "c.785_792dupCACCTGAC"}
774 - 779	COL4A5:Alport syndrome, COL4A5-Related {(NM_000495) "c.1571delG" | (NM_000495.4) "c.2641G>T", "c.367delG", "c.4691G>C", "c.4946T>G", "c.5030G>A"}
780 - 783	COL7A1:Dystrophic epidermolysis bullosa, Autosomal Recessive,COL7A1-Related {(NM_000094) "c.2387G>A", "c.4888C>T", "c.6341delG", "c.682+1G>A"}
784 - 784	COLEC11:3MC syndrome 2 {(NM_199235.2) "c.627_628delCG"}
785 - 790	COLQ:Myasthenic syndrome, congenital, 5 {(NM_005677) "c.377delG", "c.788dupC", "c.893delA" | (NM_005677.4) "c.1228C>T", "c.718G>T", "c.792dupG"}
791 - 791	COQ4:Coenzyme Q10 deficiency, primary, 7 {(NM_016035.5) "c.718C>T"}
792 - 797	CPS1:Carbamoylphosphate synthetase I deficiency {(NM_001875.5) "c.1760G>A", "c.3265C>T", "c.3374C>T", "c.3558+1G>C", "c.4101+2T>C", "c.794C>T"}

798 - 798	CPT1A:Carnitine palmitoyltransferase 1 deficiency {(NM_001031847) "c.1361A>G"}
799 - 799	CPT2:CPT deficiency, hepatic, type II {(NM_000098) "c.1239_1240delGA"}
800 - 801	CPT2:Carnitine palmitoyltransferase II deficiency {(NM_000098) "c.110_111dupGC", "c.370C>T"}
802 - 816	CRB1:Leber congenital amaurosis 8 {(NM_201253.3) "c.1148G>A", "c.1576C>T", "c.1733T>A", "c.1842delT", "c.1844G>T", "c.2230C>T", "c.2234C>T", "c.2498G>A", "c.2555T>C", "c.2680_2684delAACCC", "c.3307G>A", "c.4005+1G>A", "c.4121_4130delCAACTCAGGG", "c.424G>T", "c.455G>A"}
817 - 821	CRB2:Ventriculomegaly with cystic kidney disease {(NM_173689) "c.3089_3104dup" | (NM_173689.7) "c.1882C>T", "c.1928A>C", "c.2277G>A", "c.2400C>G"}
822 - 823	CRTAP:Osteogenesis imperfecta, type VII {(NM_006371) "c.976C>T" | (NM_006371.4) "c.793+1G>T"}
824 - 824	CSTA:Exfoliative ichthyosis, Autosomal Recessive, ichthyosis bullosa of Siemens-like {(NM_005213.4) "c.67-2A>T"}
825 - 829	CTNS:Cystinosis,CTNS-related {(NM_004937) "c.587dupA", "c.691C>T", "c.890G>A" | (NM_004937.2) "c.1015G>A", "c.530A>C"}
830 - 830	CTSC:Haim-Munk syndrome {(NM_001814.6) "c.857A>G"}
831 - 831	CTSK:Pycnodysostosis {(NM_000396.4) "c.990A>G"}
832 - 832	CYBA:Chronic granulomatous disease {(NM_000101) "c.160_161insC"}
833 - 836	CYBA:Chronic granulomatous disease,autosomal, due to deficiency of CYBA {(NM_000101.4) "c.164C>G", "c.171dupG", "c.70G>A", "c.71G>A"}
837 - 841	CYBB:Chronic granulomatous disease, X-linked {(NM_000397) "c.1016dupC", "c.1081T>C", "c.271C>T", "c.676C>T", "c.90_92delCCGinsGGT"}
842 - 843	CYP11A1:Adrenal insufficiency, congenital, with 46XY sex reversal, partial or complete {(NM_000781.3) "c.644T>C", "c.694C>T"}
844 - 844	CYP11B2:Hypoaldosteronism, congenital, due to CMO II deficiency {(NM_000498.3) "c.541C>T"}
845 - 847	CYP1B1:Glaucoma 3A, primary open angle, congenital, juvenile, or adult onset {(NM_000104) "c.1405C>T" | (NM_000104.3) "c.1568G>A", "c.182G>A"}
848 - 853	CYP27A1:Cerebrotendinous xanthomatosis {(NM_000784.4) "c.1016C>T", "c.1184G>A", "c.355delC", "c.819delT", "c.845-1G>A", "c.85delG"}
854 - 854	CYP4F22:Ichthyosis, congenital, Autosomal Recessive 5 {(NM_173483) "c.429dupG"}
855 - 855	CYP4V2:Bietti crystalline corneoretinal dystrophy {(NM_207352) "c.1123delC"}
856 - 856	CYP7B1:Spastic paraplegia 5A, Autosomal Recessive {(NM_004820.5) "c.1081C>T"}
857 - 857	DAG1:Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 9 {(NM_001165928.3) "c.743delC"}
858 - 858	DARS2:Leukoencephalopathy with brain stem and spinal cord involvement and lactate elevation {(NM_018122.5) "c.492+2T>C"}
859 - 860	DBT:Maple syrup urine disease, type II {(NM_001918) "c.581C>G", "c.939G>C"}
861 - 862	DCAF17:Woodhouse-Sakati syndome {(NM_025000) "c.580C>T" | (NM_025000.4) "c.436delC"}

863 - 863	DCLRE1C:Severe combined immunodeficiency, Athabascan type {(NM_001033858.2) "c.1307_1308insAGGATGCT"}
864 - 864	DDR2:Spondylometaepiphyseal dysplasia, short limb-hand type {(NM_006182.4) "c.2254C>T"}
865 - 865	DDRGK1:Spondyloepimetaphyseal dysplasia (Shohat-type) {(NM_023935) "c.408+1G>A"}
866 - 866	DDX11:Warsaw breakage syndrome {(NM_030653.3) "c.1763-1G>C"}
867 - 867	DGAT1:Diarrhea 7, congenital {(NM_012079.6) "c.751+2T>C"}
868 - 868	DGUOK:Mitochondrial DNA depletion syndrome (hepatocerebral type) {(NM_080916.3) "c.255delA"}
869 - 869	DGUOK:Mitochondrial DNA depletion syndrome {(NM_080916.3) "c.271delA"}
870 - 870	DHCR24:Desmosterolosis {(NM_014762.4) "c.307C>T"}
871 - 887	DHCR7:Smith Lemli Opitz syndrome {(NM_001360) "c.1055G>A", "c.1342G>A" | (NM_001360.2) "c.1054C>T", "c.1210C>T", "c.1228G>A", "c.1A>G", "c.278C>T", "c.452G>A", "c.453G>A", "c.506C>T", "c.724C>T", "c.725G>A", "c.755A>G", "c.906C>G", "c.964-1G>C", "c.964-1G>T", "c.976G>T"}
888 - 888	DHDDS:Retinitis pigmentosa 59 {(NM_024887.3) "c.124A>G"}
889 - 892	DLD:Dihydrolipoamide Dehydrogenase Deficiency {(NM_000108.5) "c.104dupA", "c.1123G>A", "c.1436A>T", "c.685G>T"}
893 - 893	DLL3:Spondylocostal dysostosis 1, Autosomal Recessive {(NM_016941.3) "c.395delG"}
894 - 895	DNAH11:Ciliary dyskinesia, primary, 7, with or without situs inversus {(NM_001277115.2) "c.11929G>T", "c.13242_13245delAAAG"}
896 - 897	DNAH5:Ciliary dyskinesia, primary, 3, with or without situs inversus (CILD3/PCD) {(NM_001369.2) "c.7502G>C", "c.8011-2A>G"}
898 - 898	DNAI1:Ciliary dyskinesia, primary, 1, with or without situs inversus {(NM_012144.4) "c.1490G>A"}
899 - 900	DNAI2:Ciliary dyskinesia, primary, 9, with or without situs inversus {(NM_023036.6) "c.1304G>A", "c.1494+1G>A"}
901 - 901	DNAL1:Ciliary dyskinesia, primary, 16 {(NM_031427.4) "c.449A>G"}
902 - 902	DOCK8:Hyper-IgE recurrent infection syndrome, autosomal recessive {(NM_203447) "c.5132C>A"}
903 - 904	DOLK:Congenital disorder of glycosylation, type Im {(NM_014908.3) "c.1222C>G", "c.912G>T"}
905 - 906	DSG1:Erythroderma, congenital, with palmoplantar keratoderma, hypotrichosis, and hyper IgE {(NM_001942.4) "c.1861delG", "c.395C>A"}
907 - 907	DST:Epidermolysis bullosa simplex, Autosomal Recessive 2 {(NM_183380.3) "c.14865delA"}
908 - 908	DSTYK:Spastic paraplegia, complicated {(NM_015375) "4-kbdeletion/20-bpinsertion"}
909 - 914	DYSF:Muscular dystrophy, limb-girdle, type 2B {(NM_003494.4) "c.2372C>G", "c.2779delG", "c.4741C>T", "c.4872_4876delGCCCGinsCCCC", "c.5057+5G>A", "c.5429G>A"}
915 - 915	ECHS1:Mitochondrial short-chain enoyl-CoA hydratase 1 deficiency {(NM_004092) "c.476A>G"}

916 - 916	ECM1:Urbach-Wiethe disease {(NM_004425) "c.70+1G>C"}
917 - 917	EDAR:Ectodermal dysplasia 10B, hypohidrotic/hair/tooth type, Autosomal Recessive {(NM_022336) "c.259T>C"}
918 - 920	ELP1:Dysautonomia, familial {(NM_003640.5) "c.2087G>C", "c.2204+6T>C", "c.2741C>T"}
921 - 921	EOGT:Adams-Oliver syndrome 4 {(NM_001278689.2) "c.1074delA"}
922 - 922	EPCAM:Colorectal cancer, hereditary nonpolyposis, type 1 {(NM_002354) "c.-358_*415del"}
923 - 926	EPG5:Vici syndrome {(NM_020964) "c.1007A>G", "c.3446G>A", "c.5993C>G" | (NM_020964.3) "c.5704dupT"}
927 - 927	EPM2A:Epilepsy, progressive myoclonic 2A (Lafora) {(NM_005670) "56_kb_incl._ex._2"}
928 - 928	ERBB3:Lethal congenital contractural syndrome 2 {(NM_001982.3) "c.1184-9A>G"}
929 - 929	ERCC2:Xeroderma pigmentosum, group D {(NM_000400.3) "c.2048G>A"}
930 - 930	ERCC5:Xeroderma pigmentosum/Cockayne {(NM_000123.3) "c.205C>T"}
931 - 931	ERCC6:Cockayne syndrome, type B {(NM_000124.4) "c.1034_1035insT"}
932 - 935	ERCC8:Cockayne syndrome, type A {(NM_000082) "c.427delA" | (NM_000082.3) "c.37G>T", "c.843+1G>C", "c.966C>A"}
936 - 936	ESCO2:Roberts-SC phocomelia syndrome {(NM_001017420.3) "c.1674-2A>G"}
937 - 940	ETFDH:Glutaric acidemia IIC {(NM_004453.4) "c.1074G>C", "c.1084G>A", "c.1425C>A", "c.299T>A"}
941 - 941	EXOSC3:Pontocerebellar hypoplasia, type 1B {(NM_016042.4) "c.571G>T"}
942 - 942	EXOSC8:Pontocerebellar hypoplasia, type 1C {(NM_181503.3) "c.5C>T"}
943 - 957	EYS:Retinitis pigmentosa 25 {(NM_001142800.2) "400kb deletion in 6q12", "c.1211dupA", "c.3699delG", "c.3715G>T", "c.403delA", "c.410_424del15", "c.4361_4362delinsAG", "c.5450G>A", "c.5928-37922_6078+38716del", "c.6976C>T", "c.8155_8156delCA", "c.8168delA", "c.8216_8217delAC", "c.8231del", "c.9286_9295del10"}
958 - 959	F7:Factor VII deficiency {(NM_000131) "c.1109G>T" | (NM_000131.4) "c.1256C>T"}
960 - 960	FA2H:Spastic paraplegia 35, Autosomal Recessive {(NM_024306.5) "c.786+1G>A"}
961 - 962	FAH:Tyrosinemia type 1 {(NM_000137.2) "c.1069G>T", "c.192G>T"}
963 - 967	FAH:Tyrosinemia, type I {(NM_000137.2) "c.1062+5G>A", "c.554-1G>T", "c.707-1G>C", "c.782C>T", "c.786G>A"}
968 - 973	FAM161A:Retinitis pigmentosa 28 {(NM_001201543.2) "c.1003C>T", "c.1309A>T", "c.1321dupC", "c.1355_1356delCA", "c.1567C>T", "c.1786C>T"}
974 - 974	FAM20A:Amelogenesis imperfecta, type IG (enamel-renal syndrome) {(NM_017565.4) "c.1523delC"}
975 - 983	FANCA:Fanconi anemia, complementation group A {(NM_000135) "c.3382C>T" | (NM_000135.4) "c.189+1G>A", "c.2172dupG", "c.3788_3790delTCT", "c.4168-2A>C", "c.4261-2A>C", "c.4275delT", "c.891_893+1delCTGG", "c.Del_exon_31-37"}
984 - 990	FANCC:Fanconi anemia, complementation group C {(NM_000136) "c.8_9delAA" | (NM_000136.3) "c.1642C>T", "c.1661T>C", "c.37C>T",

	"c.456+4A>T", "c.553C>T", "c.67delG"}
991 - 992	FANCG:Fanconi Anemia - complementation group G {(NM_004629.1) "c.212T>C", "c.510+3A>G"}
993 - 993	FDX1L:Mitochondrial muscle myopathy {(NM_001031734.4) "c.10A>T"}
994 - 996	FERMT1:Kindler syndrome {(NM_017671.4) "c.-1500_-19+470del", "c.137_140delTAGT", "c.749G>A"}
997 - 997	FGB:Afibrinogenemia congenital {(NM_005141.4) "c.1400G>A"}
998 - 999	FGFR3:Achondroplasia {(NM_000142) "c.1138G>A", "c.1138G>C"}
1000 - 1001	FGFR3:Hypochondroplasia {(NM_000142) "c.1620C>A", "c.1620C>G"}
1002 - 1002	FH:Fumarase deficiency, leiomyomatosis and renal cell cancer {(NM_000143.3) "c.905-1G>A"}
1003 - 1005	FKBP10:Osteogenesis imperfecta, type XI {(NM_021939) "c.1271_1272delCCinsA", "c.391+4A>T" | (NM_021939.3) "c.310C>T"}
1006 - 1006	FKRP:Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 5 {(NM_024301.5) "c.160C>T"}
1007 - 1007	FKTN:Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 4 - Walker Warburg syndrome {(NM_001079802.1) "c.1167dupA"}
1008 - 1008	FLT4:Autosomal Recessive Hereditary Lymphedema {(NM_182925.5) "c.3704C>G"}
1009 - 1009	FOXRED1:Mitochondrial encephalomyopathy complex I deficiency {(NM_017547.4) "c.1054C>T"}
1010 - 1010	FRMD4A:Microcephaly intellectual disability and dysmorphism {(NM_018027) "c.2134_2146dup13"}
1011 - 1011	FTO:Growth retardation, developmental delay, coarse facies, and early death {(NM_001080432.3) "c.947G>A"}
1012 - 1013	G6PC3:Neutropenia, severe congenital 4, Autosomal Recessive {(NM_138387.3) "c.765_766delAG", "c.785G>A"}
1014 - 1025	G6PC:Glycogen storage disease Ia - GDS1a {(NM_000151.4) "c.1039C>T", "c.247C>T", "c.248G>A", "c.379_380dupTA", "c.497T>G", "c.508C>T", "c.562G>C", "c.648G>T", "c.724C>T", "c.79delC", "c.809G>T", "c.979_981delTTC"}
1026 - 1038	GAA:Pompe (Glycogen storage disease type II) {(NM_000152) "c.1001G>A", "c.2456G>T" | (NM_000152.5) "c.1064T>C", "c.1082C>T", "c.1210G>A", "c.1564C>A", "c.1935C>A", "c.1942G>A", "c.2560C>T", "c.340_341insT", "c.670C>T", "c.896T>C", "c.896T>G"}
1039 - 1041	GALC:Krabbe disease {(NM_000153.4) "c.1630G>A", "c.1748A>C", "c.1796T>G"}
1042 - 1043	GALNT3:Tumoral calcinosis, hyperphosphatemic, familial {(NM_004482.4) "c.1524+1G>A", "c.1524+5G>A"}
1044 - 1053	GALT:Galactosemia {(NM_000155.3) "5.5-KB_DEL", "c.152G>A", "c.253-2A>G", "c.404C>T", "c.413C>T", "c.512T>C", "c.563A>G", "c.584T>C", "c.626A>G", "c.855G>T"}
1054 - 1054	GAN:Giant axonal neuropahty {(NM_022041) "c.103G>T"}
1055 - 1055	GAN:Giant axonal neuropathy 1 {(NM_022041.3) "c.973G>A"}
1056 - 1056	GATC:Hypertophic Cardiomyopathy {(NM_176818) "c.233T>G"}
1057 - 1057	GATM:Cerebral creatine deficiency syndrome 3 {(NM_001482.3)

	"c.1111dupA"}
1058 - 1069	GBA:Gaucher disease, , type I {(NM_001005741.3) "c.115+1G>A", "c.1226A>G", "c.1294T>A", "c.1297G>T", "c.1342G>C", "c.1448T>C", "c.1504C>T", "c.1505G>A", "c.1604G>A", "c.259C>T", "c.703T>C", "c.84dupG"}
1070 - 1070	GBE1:Glycogen storage disease IV {(NM_000158) "c.2053-3358_*3188delinsTGTTTTTTACATGACAGGT"}
1071 - 1082	GCDH:Glutaricaciduria type I {(NM_000159.4) "c.1168G>C", "c.1173delG", "c.1204C>T", "c.1205G>A", "c.1247C>T", "c.1262C>T", "c.1306G>T", "c.301G>A", "c.505+1G>A", "c.848T>C", "c.877G>A", "c.914C>T"}
1083 - 1084	GH1:Growth hormone deficiency, isolated, type IA {(NM_000515.5) "c.456+5G>C", "c.67G>T"}
1085 - 1090	GHR:Laron dwarfism {(NM_000163.5) "c.11G>A", "c.594A>G", "c.62G>A", "c.703C>T", "c.744delT", "del5,6ex"}
1091 - 1091	GHRHR:Growth hormone deficiency, isolated, type IB {(NM_000823.4) "c.1069C>T"}
1092 - 1092	GIPC3:Deafness, autosomal recessive 15 {(NM_133261) "c.937T>C"}
1093 - 1108	GJB2:Deafness, autosomal recessive 1A {(NM_004004.6) "c.-23+1G>A", "c.109G>A", "c.167delT", "c.229T>C", "c.230G>A", "c.235delC", "c.250G>A", "c.269T>C", "c.358_360delGAG", "c.35delG", "c.370C>T", "c.51_62delCACCAGCATTGGinsA", "c.551G>C", "c.614T>C", "c.71G>A", "c.94C>T"}
1109 - 1109	GJB6:Deafness, Autosomal Recessive 1B {(NM_006783.4) "309_kb"}
1110 - 1115	GLB1:GM1-gangliosidosis, type I {(NM_000404.4) "c.1038G>C", "c.485delT", "c.602G>A", "c.824A>G", "c.827A>C", "c.914+4A>G"}
1116 - 1119	GLDC:Glycine encephalopathy and non-ketoic hyperglycinemia, GLDC-related {(NM_000170.2) "c.2405C>T", "c.2607C>A", "c.2T>C", "c.985C>A"}
1120 - 1120	GLRA1:Hyperekplexia, hereditary 1, autosomal dominant or recessive {(NM_001146040.1) "c.298C>T"}
1121 - 1121	GMPPA:Alacrima, achalasia, and mental retardation syndrome {(NM_013335.3) "c.1000A>C"}
1122 - 1123	GMPPB:Muscular dystrophy-dystroglycanopathy {(NM_013334.3) "c.656T>C", "c.860G>A"}
1124 - 1124	GNE:Hereditary inclusion body myopathy (HIBM) {(NM_005476.6) "c.2135T>C"}
1125 - 1131	GNPTAB:Mucolipidosis III alpha/beta {(NM_024312.5) "c.118-2A>G", "c.2314_2315insA", "c.2918dupT", "c.3434+1G>A", "c.3434+715G>A", "c.3503_3504delTC", "c.3613C>T"}
1132 - 1132	GNPTG:Mucolipidosis III gamma {(NM_032520.5) "c.499dupC"}
1133 - 1134	GPC6:Omodysplasia 1 {(NM_005708) "g.93997007_94063501del66495insATAAATCACTTAGAGATGT", "g.94252984_94352299del99316insCTA"}
1135 - 1135	GPSM2:Chudley-McCullough syndrome {(NM_013296.5) "c.379C>T"}
1136 - 1136	GRHPR:Hyperoxaluria, primary, type II {(NM_012203.2) "c.975A>G"}
1137 - 1144	GUCY2D:Leber congenital amaurosis 1 , Cone-rod dystrophy 6 {(NM_000180.3) "c.1992T>G", "c.2129C>T", "c.2513G>A", "c.2618C>G", "c.389delC", "c.529C>T", "c.620delC", "c.693delG"}
1145 - 1145	HACD1:Congenital myopathy {(NM_014241.4) "c.744C>A"}

1146 - 1146	HADHA:Long-Chain hydroxylacyl-CoA dehydrogenase deficiency (LCHAD) {(NM_000182.5) "c.1528G>C"}
1147 - 1147	HAX1:Severe congenital neutropenia type 3 (SCN3), a.k.a. Kostmann disease {(NM_006118) "c.125dupG"}
1148 - 1152	HBB:Hemoglobinopathies (Including sickle-cell anemia and beta thalassemia, Hb C, D, E, O) {(NM_000518) "c.-138C>A", "c.19G>A", "c.364G>A", "c.364G>C", "c.79G>A"}
1153 - 1174	HBB:Hemoglobipathies (Including sickle-cell anemia and beta thalassemia, Hb C, D, E, O) {(NM_000518) "c.-50-101C>T", "c.-78A>C", "c.-80T>A", "c.112delT", "c.114G>A", "c.118C>T", "c.135delC", "c.315+1G>A", "c.82G>T", "c.92+5G>C", "c.92+6T>C", "c.92G>C", "c.93-22_95del25" | (NM_000518.5) "1.78_Mb", "c.17_18delCT", "c.20A>T", "c.25_26delAA", "c.27dupG", "c.316-106C>G", "c.47G>A", "c.92+1G>A", "c.93-21G>A"}
1175 - 1176	HEXA:Tay Sachs disease {(NM_000520) "c.1176G>A", "c.1528C>T"}
1177 - 1197	HEXA:Tay-Sachs disease {(NM_000520.5) "c.1073+1G>A", "c.1274_1277dupTATC", "c.1351C>G", "c.1421+1G>C", "c.1444G>A", "c.316C>T", "c.459+2dupT", "c.496delC", "c.509G>A", "c.532C>T", "c.533G>A", "c.533G>T", "c.540C>G", "c.571-2A>G", "c.749G>A", "c.749G>T", "c.78G>A", "c.805+1G>A", "c.805G>A", "c.835T>C", "c.910_912delTTC"}
1198 - 1198	HEXB:Sandhoff disease, infantile, juvenile, and adult forms {(NM_000521) "c.1082+5G>A"}
1199 - 1199	HGD:Alkaptonuria {(NM_000187) "c.16-272_87+305del"}
1200 - 1200	HGSNAT:Retinitis pigmentosa 73 {(NM_152419.3) "c.370A>T"}
1201 - 1201	HIKESHI:Leukodystrophy, early onset spastic paraparesis,acquired microcephaly, optic atrophy and risk of early death {(NM_016401.4) "c.160G>C"}
1202 - 1204	HMGCL:HMG-CoA lyase deficiency {(NM_000191.3) "c.122G>A", "c.125A>G", "c.521G>A"}
1205 - 1206	HOGA1:Hyperoxaluria, primary, type III {(NM_138413) "c.860G>T", "c.944_946delAGG"}
1207 - 1209	HPD:Thyrosinemia type III {(NM_002150.3) "c.325-1G>A", "c.415-1G>A", "c.481G>C"}
1210 - 1210	HPS1:Hermansky-Pudlak syndrome 1 {(NM_000195.5) "c.972delC"}
1211 - 1214	HPS3:Hermansky-Pudlak syndrome 3 {(NM_032383.5) "c.-2993_217+690del3900", "c.1163+1G>A", "c.1691+2T>G", "c.2482-2A>G"}
1215 - 1215	HPS6:Hermansky-Pudlak syndrome 6 {(NM_024747.5) "c.1065dupG"}
1216 - 1216	HSPD1:Leukodystrophy, hypomyelinating, 4, HLD4 (HSP60) {(NM_199440.1) "c.86A>G"}
1217 - 1217	IBA57:Spastic paraplegia 74, Autosomal Recessive {(NM_001010867.4) "c.678A>G"}
1218 - 1221	IDUA:Mucopolysaccharidosis Type IH - Hurler syndrome {(NM_000203.5) "c.1096A>C", "c.192C>A", "c.208C>T", "c.928C>T"}
1222 - 1223	IGHMBP2:Neuronopathy, distal hereditary motor, type VI {(NM_002180.2) "c.114delA", "c.707T>G"}
1224 - 1224	IL10RA:Inflammatory bowel disease 28, early onset, autosomal recessive {(NM_001558) "c.537G>A"}
1225 - 1228	INSR:Leprechaunism, Donohue syndrome {(NM_000208) "c.2683-542_2842+544del" | (NM_000208.4) "c.167T>C", "c.3079C>T", "c.857G>A"}

1229 - 1229	INVS:Nephronophthisis 2, infantile {(NM_014425.5) "c.2719C>T"}
1230 - 1230	ISPD:Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), {(NM_001101426.4) "c.165dupG"}
1231 - 1234	ITGA2B:Glanzmann thrombasthenia, ITGA2B-related {(NM_000419) "c.2374delG" | (NM_000419.4) "c.1947-1G>A", "c.818G>A", "c.97A>G"}
1235 - 1237	ITGB3:Glanzmann thrombasthenia, ITGB3-related {(NM_000212) "c.1616_1617delTT" | (NM_000212.2) "11.2kbincl.ex.10-partex.13", "c.428T>G"}
1238 - 1238	ITGB4:Epidermolysis bullosa, junctional, with pyloric atresia - Carmi syndrome {(NM_000213.5) "c.3224_3793+120del"}
1239 - 1239	ITK:Lymphoproliferative syndrome {(NM_005546) "c.1764C>G"}
1240 - 1243	IVD:Isovaleric academia {(NM_002225.4) "c.148C>T", "c.286+2T>C", "c.456+2T>C", "c.932C>T"}
1244 - 1244	JAK3:SCID, autosomal recessive, T-negative/B-positive type {(NM_000215) "c.2680+89G>A"}
1245 - 1245	KCNJ10:SESAME syndrome {(NM_002241.5) "c.524G>A"}
1246 - 1246	KIAA1279:Goldberg-Shprintzen megacolon syndrome {(NM_015634) "c.1516dupA"}
1247 - 1247	KIF1C:Spastic ataxia 2, Autosomal Recessive {(NM_006612) "c.2191C>T"}
1248 - 1248	KIZ:Retinitis pigmentosa 69 {(NM_018474) "c.226C>T"}
1249 - 1249	KLHL40:Nemaline myopathy 8, Autosomal Recessive {(NM_152393.4) "c.581T>A"}
1250 - 1250	KREMEN1:Ectodermal dysplasia {(NM_032045) "c.626T>C"}
1251 - 1252	KRT14:Epidermolysis bullosa simplex {(NM_000526) "c.400C>T", "c.915G>A"}
1253 - 1254	KY:Myopathy, myofibrillar, 7 {(NM_178554) "c.405C>A", "c.51_52insTATCGACATGTGCTGTATCTATCGACAT"}
1255 - 1260	LAMA2:Muscular dystrophy, congenital, due to partial LAMA2 deficiency {(NM_000426) "c.4609_4631del" | (NM_000426.3) "c.3718C>T", "c.5260delG", "c.828C>G", "c.8665G>A", "c.8689C>T"}
1261 - 1264	LAMA3:Laryngoonychocutaneous Syndrome {(NM_000227.4) "c.1981C>T", "c.2975delA", "c.4815G>T", "c.893_894insT"}
1265 - 1265	LAMB3:Epidermolysis bullosa lethalis {(NM_000228) "c.129insA"}
1266 - 1275	LAMB3:Epidermolysis bullosa, junctional, non-Herlitz type {(NM_000228.3) "c.124C>T", "c.1295dupA", "c.1903C>T", "c.1978C>T", "c.2528delA", "c.2914C>T", "c.3024delT", "c.3247C>T", "c.430C>T", "c.727C>T"}
1276 - 1277	LAMC2:Epidermolysis bullosa, junctional, Herlitz type {(NM_018891.2) "c.1756C>T", "c.368_373delinsACCAC"}
1278 - 1282	LCA5:Leber congenital amaurosis 5 {(NM_181714.3) "c.1062_1068delCGAAAAC", "c.1714C>T", "c.238C>T", "c.835C>T", "c.94delT"}
1283 - 1284	LIFR:Stuve-Wiedemann syndrome/Schwartz-Jampel type 2 syndrome-LIFR related {(NM_002310.5) "c.1601-1G>A", "c.2472_2476delTATGT"}
1285 - 1286	LIPA:Wolman disease {(NM_001127605.2) "c.260G>T", "c.398delC"}
1287 - 1287	LOXHD1:Deafness, Autosomal Recessive 77 {(NM_144612.6) "c.4714C>T"}
1288 - 1288	LOXHD1:Deafness, autosomal recessive {(NM_144612) "c.5894dupG"}
1289 - 1290	LRBA:Immunodeficiency, common variable, 8, with autoimmunity

	{(NM_001199282) "c.8139_8142dupCATG" | (NM_001199282.2) "c.7937T>G"}
1291 - 1292	MAK:Retinitis pigmentosa 62 {(NM_001242957.2) "c.497G>A" | (NM_005906) "c.394_395insCTTC"}
1293 - 1293	MAN1B1:Mental retardation, Autosomal Recessive 15 {(NM_016219.5) "c.1863G>A"}
1294 - 1294	MATN3:Spondyloepimetaphyseal dysplasia {(NM_002381.5) "c.910T>A"}
1295 - 1295	MCIDAS:Mucociliary clearance disorder {(NM_001190787.2) "c.1142G>A"}
1296 - 1300	MCOLN1:Mucolipidosis type IV - ML4 {(NM_020533) "c.1135-1G>C" | (NM_020533.3) "c.-1015_788del6433", "c.1207C>T", "c.406-2A>G", "c.964C>T"}
1301 - 1302	MECR:Dystonia, childhood-onset, with optic atrophy and basal ganglia abnormalities {(NM_016011) "c.695G>A", "c.830+2dupT"}
1303 - 1303	MED17:Microcephaly, postnatal progressive, with seizures and brain atrophy ((ICCA) {(NM_004268.5) "c.1112T>C"}
1304 - 1304	MED25:Basel-Vanagaite-Smirin-Yosef syndrome {(NM_030973.3) "c.116A>G"}
1305 - 1305	MEGF10:Myopathy, areflexia, respiratory distress, and dysphagia, early-onset {(NM_001256545.2) "c.1325delC"}
1306 - 1306	MERTK:Retinitis pigmentosa 38 {(NM_006343) "c.2164C>T"}
1307 - 1308	MFSD8:Ceroid lipofuscinosis, neuronal, 7 {(NM_152778) "c.103C>T" | (NM_152778.2) "c.472G>A"}
1309 - 1310	MKS1:Meckel syndrome 1 {(NM_017777.3) "c.1048C>T", "c.472C>T"}
1311 - 1313	MLC1:Megalencephalic leukoencephalopathy with subcortical cysts {(NM_015166.3) "c.176G>A", "c.274C>T", "c.278C>T"}
1314 - 1314	MLPH:Griscelli syndrome, type 3 {(NM_024101.7) "c.103C>T"}
1315 - 1315	MMACHC:Methylmalonic aciduria and homocystinuria, cblC type {(NM_015506.3) "c.271dupA"}
1316 - 1318	MOCS1:Molybdenum cofactor deficiency A {(NM_001075098.3) "c.1510C>T", "c.722delT", "c.971G>A"}
1319 - 1320	MOCS2:Molybdenum cofactor deficiency Type B {(NM_004531.5) "c.226G>A", "c.377+1G>A"}
1321 - 1324	MPDU1:Congenital disorder of glycosylation, type If {(NM_004870) "c.511delC" | (NM_004870.4) "c.218G>A", "c.2T>C", "c.356T>C"}
1325 - 1330	MPL:Thrombocytopenia, congenital amegakaryocytic {(NM_005373) "c.212+5G>A", "c.76C>T" | (NM_005373.2) "c.1031T>A", "c.127C>T", "c.460T>C", "c.79+2T>A"}
1331 - 1331	MPV17:Mitochondrial DNA depletion syndrome 6 (hepatocerebral type) {(NM_002437.5) "c.278A>C"}
1332 - 1332	MRE11A:Ataxia Telangiectasia like disorder {(NM_005591.3) "c.290A>G"}
1333 - 1335	MTHFR:Homocystinuria due to MTHFR deficiency {(NM_005957) "c.1072C>T" | (NM_005957.4) "c.16delA", "c.474A>T"}
1336 - 1339	MTTP:Abetalipoproteinemia ABL {(NM_000253.3) "c.2212delT", "c.2593G>T", "c.307A>T", "c.62-2A>G"}
1340 - 1341	MUT:Methylmalonic acidemia, mut(0) type {(NM_000255) "c.1240G>T" | (NM_000255.4) "c.655A>T"}
1342 - 1342	MVK:Hyper-IgD syndrome {(NM_000431.4) "c.1129G>A"}

1343 - 1345	MYBPC1:Lethal congenital contracture syndrome 4 {(NM_002465.4) "c.556G>A", "c.688G>A", "c.952C>T"}
1346 - 1347	MYH2:Proximal myopathy and ophthalmoplegia {(NM_017534.6) "c.2400delG", "c.706G>A"}
1348 - 1354	MYO15A:Deafness, Autosomal Recessive 3 {(NM_016239) "c.1223C>T", "c.9861C>T" | (NM_016239.4) "c.373_374delCG", "c.4240G>A", "c.7207G>T", "c.8183G>A", "c.8467G>A"}
1355 - 1374	MYO7A:Usher syndrome, type 1B {(NM_000260) "c.3262C>T" | (NM_000260.4) "c.1190C>A", "c.1996C>T", "c.2065delC", "c.2187+1G>A", "c.2307delC", "c.2476G>A", "c.2777T>A", "c.29T>C", "c.3892G>A", "c.4153-2A>G", "c.470+1G>A", "c.5068dupC", "c.5581C>T", "c.5660C>T", "c.6196delC", "c.620A>G", "c.640G>A", "c.6487G>A", "c.700C>T"}
1375 - 1375	NAGLU:Mucopolysaccharidosis type IIIB (Sanfilippo B) {(NM_000263.4) "c.2021G>A"}
1376 - 1376	NARS2:Combined oxidative phosphorylation deficiency 24 (COXPD24) {(NM_024678) "c.500A>G"}
1377 - 1378	NBEAL2:Gray platelet syndrome {(NM_015175.2) "c.2701C>T", "c.5413dupG"}
1379 - 1381	NCF1:Chronic granulomatous disease due to deficiency of NCF-1 {(NM_000265) "c.75_76delGT" | (NM_000265.6) "c.153+1G>A", "c.579G>A"}
1382 - 1385	NCF2:Chronic granulomatous disease due to deficiency of NCF-2 {(NM_000433) "exon9+10insertionafterexon10" | (NM_000433.3) "c.1171_1175delAAGCT", "c.196C>T", "c.304C>T"}
1386 - 1386	NDUFA11:Mitochondrial complex I deficiency - NDUFA11 gene {(NM_001193375.1) "c.97+5G>A"}
1387 - 1387	NDUFAF5:Mitochondrial complex I deficiency - NDUFAF5 gene {(NM_024120.5) "c.749G>T"}
1388 - 1388	NDUFS2:Mitochondrial complex I deficiency-NDUFS2 gene {(NM_004550.4) "c.1237T>C"}
1389 - 1389	NDUFS4:Leigh syndrome {(NM_002495.4) "c.462delA"}
1390 - 1390	NDUFS6:Mitochondrial complex I deficiency - NDUFS6 gene {(NM_004553.4) "c.344G>A"}
1391 - 1394	NEB:Nemaline myopathy 2 {(NM_001271208.2) "c.17118+1G>A", "c.18808C>T", "c.9619-2A>G" | (NM_004543.4) "c.7431+1917_7536+372del"}
1395 - 1395	NECTIN1:Cleft lip/palate ectodermal dysplasia, CLPED1 (Zlotogora-Ogur syndrome) {(NM_203285) "c.556delG"}
1396 - 1396	NGLY1:Congenital disorder of deglycosylation {(NM_018297.4) "c.1294G>T"}
1397 - 1397	NNT:Glucocorticoid deficiency 4 {(NM_182977.3) "c.598G>A"}
1398 - 1416	NPC1:Niemann-Pick disease type C1 {(NM_000271) "c.3742_3753del" | (NM_000271.5) "c.1211G>A", "c.1241_1242delTC", "c.1437_1442delCACCAT", "c.1552C>T", "c.1761delT", "c.2279_2281delTCT", "c.2780C>T", "c.2972_2973delAG", "c.2974G>A", "c.2974G>C", "c.2974G>T", "c.3007C>T", "c.3347_3348delTC", "c.3467A>G", "c.3557G>A", "c.3614C>A", "c.3637T>G", "c.3673T>G"}
1417 - 1417	NPHP1:Joubert syndrome {"del exons 2-7"}
1418 - 1426	NPHS1:Nephrotic syndrome type 1 {(NM_004646.3) "c.1138C>T", "c.121_122delCT", "c.1707C>G", "c.2104G>A", "c.2160dupC", "c.3325C>T",

	"c.3478C>T", "c.514_516delACC", "c.532C>T"}
1427 - 1428	NPHS2:Nephrotic syndrome {(NM_014625) "c.388G>A" | (NM_014625.3) "c.412C>T"}
1429 - 1430	NRL:Retinitis pigmentosa 27 {(NM_006177) "c.444_445insGCTGCGGG", "c.91C>T"}
1431 - 1434	NTRK1:Insensitivity to pain, congenital, with anhidrosis (CIPA) {(NM_002529.3) "c.1250C>T", "c.1860_1861insT", "c.207_208delTG", "c.2084C>T"}
1435 - 1435	NUP62:Striatonigral degeneration, Infantile Bilateral Striatal Necrosis (IBSN) {(NM_016553.4) "c.1172A>C"}
1436 - 1436	OAT:Gyrate atrophy of choroid and retina with or without ornithinemia {(NM_000274) "c.159delC"}
1437 - 1439	OCA2:Albinism, oculocutaneous, type II {(NM_000275) "c.1441G>A", "c.79G>A" | (NM_000275.3) "c.1327G>A"}
1440 - 1440	OPA3:3-methylglutaconic aciduria, type III - Costeff {(NM_025136.3) "c.143-1G>C"}
1441 - 1443	OTC:Ornithine transcarbamylase deficiency {(NM_000531.6) "c.717+1G>T", "c.829C>T", "c.958C>T"}
1444 - 1445	OTOA:Deafness, Autosomal Recessive 22 {(NM_144672) "c.1025A>T", "c.2359G>T"}
1446 - 1447	OTOF:Deafness, Autosomal Recessive 9 {(NM_194248) "c.5332G>T" | (NM_194248.2) "c.2866+1G>A"}
1448 - 1448	P3H2:Myopia, high, with cataract and vitreoretinal degeneration {(NM_018192) "c.1523G>T"}
1449 - 1488	PAH:Phenylketonuria {(NM_000277) "c.1089delG", "c.1139C>T", "c.116T>C", "c.1184C>G", "c.1243G>A", "c.168+1G>A", "c.169-4951del6604ins8 6.7kb_del", "c.169_171delGAG", "c.283A>T", "c.311C>A", "c.350delC", "c.442-5C>G", "c.48dupT", "c.506G>A", "c.526C>T", "c.592_613del22", "c.632delC", "c.838G>A", "c.842+5G>A", "c.967_969delACA", "c.969+1G>A" | (NM_000277.3) "c.1045T>C", "c.1066-11G>A", "c.1208C>T", "c.1222C>T", "c.1315+1G>A", "c.143T>C", "c.165T>G", "c.165delT", "c.441+5G>T", "c.473G>A", "c.689T>C", "c.722G>A", "c.727C>T", "c.754C>T", "c.782G>A", "c.782G>C", "c.842C>T", "c.889C>T", "c.898G>T"}
1489 - 1489	PARK2:Parkinson disease, early onset {(NM_004562) "c.101delA"}
1490 - 1490	PAX7:Myopathy, congenital, progressive, with scoliosis {(NM_001135254) "c.1403-2A>G"}
1491 - 1491	PCCA:Propionic acidemia, PCCA-related {(NM_000282.4) "c.923dupT"}
1492 - 1492	PCCB:Propionic acidemia, PCCB-related {(NM_000532.5) "c.1173dupT"}
1493 - 1494	PCDH12:Microcephaly, seizures, spasticity, and brain calcification (MISSBC) {(NM_016580) "c.2515C>T", "c.995delT"}
1495 - 1495	PCDH15:Usher syndrome, type 1F {(NM_033056.3) "c.733C>T"}
1496 - 1496	PCK1:Phosphoenolpyruvate carboxykinase-1, cytosolic, deficiency {(NM_002591.4) "c.134T>C"}
1497 - 1497	PCNT:Microcephalic osteodysplastic primordial dwarfism type II (MOPDII) {(NM_006031.5) "c.3465-1G>A"}
1498 - 1498	PCNT:Microcephalic osteodysplastic primordial dwarfism, type II {(NM_006031) "c.2984_2994delCAGACTTTGAG"}
1499 - 1503	PDE6A:Retinitis pigmentosa 43 {(NM_000440) "c.1957C>T", "c.1960C>T",

	"c.2081_2085delAACAG", "c.409delGinsCT", "c.769C>T"}
1504 - 1504	PDE6B:Retinitis pigmentosa-40 {(NM_001145291) "c.1417delC"}
1505 - 1505	PDE6G:Retinitis pigmentosa 57 {(NM_002602.4) "c.187+1G>T"}
1506 - 1508	PEPD:Prolidase deficiency {(NM_000285.4) "c.1103T>G", "c.605C>T", "c.634G>C"}
1509 - 1510	PEX1:Peroxisome biogenesis disorder 1A (Zellweger) {(NM_000466.3) "c.2097dupT", "c.2528G>A"}
1511 - 1511	PEX1:Peroxisome biogenesis disorder 1A {(NM_000466) "c.2916delA"}
1512 - 1514	PEX2:Peroxisome biogenesis disorder 5A (Zellweger) {(NM_001079867.1) "c.355C>T", "c.550delT", "c.669G>A"}
1515 - 1519	PEX6:Peroxisome biogenesis disorder 4B (Zellweger syndrome) {(NM_000287.4) "c.1715C>T", "c.1944delC", "c.1947delG", "c.2094+2T>C", "c.2534T>C"}
1520 - 1520	PEX7:Rhizomelic chondrodysplasia punctata type 1 {(NM_000288.4) "c.283T>G"}
1521 - 1521	PGAP3:Hyperphosphatasia with mental retardation syndrome 4 {(NM_033419.5) "c.845A>G"}
1522 - 1522	PGM1:Congenital disorder of glycosylation, type It {(NM_002633) "c.112A>T"}
1523 - 1523	PHGDH:Phosphoglycerate dehydrogenase deficiency {(NM_006623.3) "c.1468G>A"}
1524 - 1524	PHKG2:Glycogen storage disease IXc {(NM_000294.3) "c.71A>G"}
1525 - 1525	PHYH:Refsum disease {(NM_001037537.1) "c.523C>T"}
1526 - 1527	PIGN:Multiple congenital anomalies-hypotonia-seizures syndrome 1 {(NM_012327.5) "c.2126G>A", "c.755A>T"}
1528 - 1529	PIGT:Multiple congenital anomalies-hypotonia-seizures syndrome 3 {(NM_015937.6) "c.1564T>G", "c.761delG"}
1530 - 1530	PIP5K1C:Lethal congenital contractural syndrome 3 {(NM_012398.2) "c.757G>A"}
1531 - 1531	PJVK:Deafness, Autosomal Recessive 59 {(NM_001042702.4) "c.406C>T"}
1532 - 1542	PKHD1:Polycystic kidney & hepatic disease, PKHD1-related {(NM_138694) "c.10444C>T", "c.1486C>T", "c.5895dupA", "c.8870T>C", "c.9689delA" | (NM_138694.4) "c.107C>T", "c.1350delC", "c.2279G>A", "c.3761_3762delCCinsG", "c.6122-12G>A", "c.824C>T"}
1543 - 1547	PLA2G6:Infantile neuroaxonal dystrophy 1 (INAD) {(NM_003560) "c.1594A>T" | (NM_003560.4) "c.1040G>C", "c.2070_2072delTGT", "c.2251G>A", "c.668C>A"}
1548 - 1548	PLAA:Neurodevelopmental disorder with progressive microcephaly, spasticity, and brain anomalies {(NM_001031689.3) "c.2254C>T"}
1549 - 1549	PLEKHG2:Leukodystrophy and acquired microcephaly with or without dystonia {(NM_022835.3) "c.610C>T"}
1550 - 1553	PMM2:Congenital disorder of glycosylation Ia {(NM_000303) "c.338C>T", "c.357C>A", "c.422G>A", "c.691G>A"}
1554 - 1554	POC1A:Short stature, onychodysplasia, facial dysmorphism, and hypotrichosis {(NM_015426.5) "c.512T>C"}
1555 - 1555	POMGNT2:Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies, type A, 8) {(NM_032806.6) "c.1232_1233delAG"}

1556 - 1557	POMT1:Walker-Warburg Syndrome, type A, 1 {(NM_007171) "c.2167dupG", "c.428-1G>C"}
1558 - 1558	POMT2:Walker-Warburg Syndrome, type A, 2 {(NM_013382) "c.924-2A>C"}
1559 - 1559	POR:Antley-Bixler syndrome with genital anomalies and disordered steroidogenesis {(NM_000941.3) "c.1615G>A"}
1560 - 1560	PPIB:Osteogenesis imperfecta, type IX {(NM_000942.4) "c.563_566delACAG"}
1561 - 1561	PPP1R13L:Cardio-Cutaneous Syndrome DCM {(NM_006663.4) "c.2241C>G"}
1562 - 1562	PPT1:Ceroid lipofuscinosis, neuronal, 1 {(NM_000310.3) "c.169dupA"}
1563 - 1563	PRCD:Retinitis pigmentosa 36 {(NM_001077620) "c.64C>T"}
1564 - 1564	PRICKLE1:Epilepsy, progressive myoclonic 1B {(NM_153026.3) "c.311G>A"}
1565 - 1565	PSMB8:Autoinflammation, lipodystrophy, and dermatosis syndrome {(NM_148919.4) "c.405C>A"}
1566 - 1566	PTPN23:Developmental delay, cognitive impairment, and atopic atrophy {(NM_015466) "c.3886_3888del"}
1567 - 1567	PUS1:Mitochondrial myopathy and sideroblastic anemia 1 {(NM_001002020.3) "c.346C>T"}
1568 - 1568	RAB27A:Griscelli syndrome, type 2 {(NM_004580) "c.148_149delinsC"}
1569 - 1569	RAB28:Cone-rod dystrophy 18 {(NM_001017979) "c.409C>T"}
1570 - 1571	RAG1:Severe combined immudeficiency, B cell-negative, RAG1-related {(NM_000448.2) "c.1361T>A", "c.1410_1413delCTTG"}
1572 - 1576	RAG2:Severe combined immudeficiency, B cell-negative, RAG2-related {(NM_000536.3) "c.1438G>T", "c.193G>T", "c.379A>T", "c.470G>T", "c.685C>T"}
1577 - 1580	RAPSN:Myasthenic syndrome, congenital, associated with acetylcholine receptor deficiency {(NM_005055.5) "c.-210A>G", "c.-27C>G", "c.264C>A", "c.672_673insACT"}
1581 - 1581	RAPSN:Severe combined immudeficiency, B cell-negative, RAG2-related {(NM_005055) "c.648T>A"}
1582 - 1582	RARS2:Pontocerebellar hypoplasia, type 6 {(NM_020320.5) "c.110+5A>G"}
1583 - 1590	RDH12:Leber congenital amaurosis 13 {(NM_152443.3) "c.146C>T", "c.164C>T", "c.295C>A", "c.377C>T", "c.481C>T", "c.658+1G>A", "c.716G>A", "c.740T>C"}
1591 - 1592	RECQL2:Werner syndrome {(NM_000553.5) "c.1105C>T", "c.2665C>T"}
1593 - 1593	RFX5:Bare lymphocyte syndrome, type II (SCID) {(NM_000449) "c.715C>T"}
1594 - 1594	RIN2:Macrocephaly, alopecia, cutis laxa, and scoliosis {(NM_018993.3) "c.1731delC"}
1595 - 1595	RNASEH2B:Aicardi-Goutieres syndrome 2 {(NM_024570.3) "c.529G>A"}
1596 - 1596	ROGDI:Kohlschutter-Tonz syndrome {(NM_024589.2) "c.469C>T"}
1597 - 1598	RP1:Retinitis pigmentosa 1 {(NM_006269) "c.688G>T" | (NM_006269.2) "c.4941dupT"}
1599 - 1604	RPE65:Leber congenital amaurosis 2 {(NM_000329.3) "c.1301C>G", "c.227A>C", "c.361dupT", "c.722A>T", "c.886dupA", "c.95-2A>T"}
1605 - 1608	RPGRIP1:Cone-rod dystrophy 13 {(NM_020366) "c.1615_1624delGAACTGGAGG", "c.2935C>T", "c.2974delA", "c.3663_3666delAGAA"}
1609 - 1609	RPGRIP1L:Meckel syndrome 5 {(NM_015272.5) "c.118C>T"}
1610 - 1610	RRM2B:Mitochondrial DNA depletion syndrome 8 {(NM_015713.5)

	"c.215C>G"}
1611 - 1611	RSPH9:Ciliary dyskinesia, primary, 12 {(NM_152732.5) "c.804_806delGAA"}
1612 - 1615	RTEL1:Dyskeratosis congenita {(NM_001283009.1) "c.1476G>T", "c.2848C>T", "c.2920C>T", "c.3791G>A"}
1616 - 1616	RTEL1:Dyskeratosis congenita, autosomal recessive {(NM_001283009.1) "c.2869C>T"}
1617 - 1619	RYR1:Minicore myopathy with external ophthalmoplegia {(NM_000540) "c.1366G>A", "c.9047A>G" | (NM_000540.2) "c.9623C>T"}
1620 - 1621	SAMD9:Tumoral calcinosis, familial, normophosphatemic {(NM_017654.4) "c.1030C>T", "c.4483A>G"}
1622 - 1626	SAMHD1:Aicardi Goutieres syndrome {(NM_015474) "c.359_370delATCCTATCCATG" | (NM_015474.3) "9.1-KB_DEL", "c.1106T>C", "c.649_650insG", "c.676C>G"}
1627 - 1627	SARS2:Hyperuricemia, pulmonary hypertension, renal failure, and alkalosis {(NM_017827.3) "c.1169A>G"}
1628 - 1628	SCAPER:Retinitis pigmentosa with intellectual disability {(NM_020843) "c.2806delC"}
1629 - 1629	SCN9A:Insensitivity to pain, congenital {(NM_002977.3) "c.1124delG"}
1630 - 1630	SCN9A:Insensitivity to pain, congenital, with anhidrosis (CIPA) {(NM_002977.3) "c.2687G>A"}
1631 - 1631	SCNN1A:Pseudohypoaldosteronism type I - SCNN1A gene {(NM_001038) "c.1522C>T"}
1632 - 1633	SCNN1B:Pseudohypoaldosteronism type I - SCNN1B gene {(NM_000336) "c.648dupA", "c.915delC"}
1634 - 1635	SDHA:Cardiomyopathy, dilated , 1GG neonatal isolated {(NM_004168) "c.1A>G" | (NM_004168.4) "c.1664G>A"}
1636 - 1637	SEC23B:Dyserythropoietic anemia, congenital, type II {(NM_006363.6) "c.2129C>T", "c.325G>A"}
1638 - 1642	SERAC1:3-methylglutaconic aciduria with deafness, encephalopathy, and Leigh-like syndrome {(NM_032861) "c.1102C>T", "c.1339C>T" | (NM_032861.4) "c.1018delT", "c.128+4A>G", "c.698_699delinsAGTATA"}
1643 - 1643	SGCG:Muscular dystrophy, limb-girdle, type 2C {(NM_000231.2) "c.525delT"}
1644 - 1651	SGSH:Mucopolysaccharidisis type IIIA (Sanfilippo A) {(NM_000199) "c.267C>A", "c.697C>T" | (NM_000199.5) "c.1093C>T", "c.1298G>A", "c.332T>C", "c.416C>T", "c.544C>T", "c.812C>T"}
1652 - 1652	SLC12A3:Bartter and Gitelman syndrome {(NM_000339.3) "c.1313G>A"}
1653 - 1653	SLC17A5:Sialic acid storage disorder, infantile (ISSD) {(NM_012434.5) "c.983G>A"}
1654 - 1654	SLC18A3:Myasthenia gravis, congenital {(NM_003055) "c.1078G>C"}
1655 - 1656	SLC19A2:Thiamine-responsive megaloblastic anemia syndrome {(NM_006996.3) "c.1223+1G>A", "c.725delC"}
1657 - 1659	SLC1A4:Spastic tetraplegia, thin corpus callosum, and progressive microcephaly {(NM_003038.5) "c.1369C>T", "c.766G>A", "c.944_945del"}
1660 - 1660	SLC22A5:Carnitine deficiency, systemic primary {(NM_003060.3) "c.1196G>A"}
1661 - 1662	SLC25A15:Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome {(NM_014252) "c.562_564delTTC" | (NM_014252.3) "c.706A>G"}

1663 - 1664	SLC25A1:Combined D-2- and L-2-hydroxyglutaric aciduria {(NM_005984.5) "c.389G>A", "c.845G>A"}
1665 - 1666	SLC25A20:Carnitine-acylcarnitine translocase deficiency - CACT {(NM_000387.6) "c.609-3C>G", "c.713A>G"}
1667 - 1667	SLC26A3:Congenital chloride diarhhea (CLD) {(NM_000111.2) "c.559G>T"}
1668 - 1678	SLC26A4:Pendred syndrome {(NM_000441.2) "c.1001G>T", "c.1151A>G", "c.1198delT", "c.1246A>C", "c.1341+1delG", "c.1458dupT", "c.2000T>G", "c.2168A>G", "c.349C>T", "c.707T>C", "c.716T>A"}
1679 - 1682	SLC29A3:Histiocytosis-lymphadenopathy plus syndrome {(NM_018344.5) "c.1157G>A" | (NM_018344.6) "c.1045delC", "c.1279G>A", "c.1309G>A"}
1683 - 1685	SLC2A2:Fanconi-Bickel syndrome {(NM_000340.2) "c.372A>C", "c.734A>C", "c.901C>T"}
1686 - 1686	SLC30A9:Birk-Landau-Perez cerebro-renal syndrome {(NM_016474.5) "c.1047_1049delCAG"}
1687 - 1688	SLC35A3:Arthrogryposis, mental retardation, and seizures {(NM_012243.3) "c.514C>T", "c.886A>G"}
1689 - 1689	SLC35C1:Congenital disorder of glycosylation, type IIc {(NM_018389.4) "c.923C>G"}
1690 - 1693	SLC37A4:Glycogen storage disease Ib {(NM_001164277.1) "c.1042_1043delCT", "c.1179G>A", "c.446G>A", "c.83G>A"}
1694 - 1694	SLC39A4:Acrodermatitis enteropathica {(NM_130849.3) "c.1224delC"}
1695 - 1695	SLC45A2:Albinism, oculocutaneous, type IV {(NM_001012509) "c.1076_1077delAG"}
1696 - 1696	SLC46A1:Folate malabsorption, hereditary {(NM_080669) "c.337C>T"}
1697 - 1697	SLC4A4:Renal tubular acidosis (RTA), proximal, with ocular abnormalities and mental retardation {(NM_003759.3) "c.2321G>A"}
1698 - 1698	SLCO2A1:Hypertrophic osteoarthropathy, primary, Autosomal Recessive 2 {(NM_005630.2) "c.1292delC"}
1699 - 1700	SMARCAL1:Schimke immunoosseous dysplasia {(NM_014140.3) "c.2542G>T", "c.863-2A>G"}
1701 - 1701	SMN1:Spinal muscular atrophy-1 {(NM_000344) "c.835_*3del"}
1702 - 1714	SMPD1:Niemann-Pick disease type B, SMPD1-related {(NM_000543) "c.1092-1G>C", "c.880C>A" | (NM_000543.5) "c.1493G>T", "c.1705T>C", "c.1758T>G", "c.1805G>C", "c.1828_1830delCGC", "c.442T>A", "c.573delT", "c.730G>A", "c.911T>C", "c.96G>A", "c.996delC"}
1715 - 1715	SNAP29:Cerebral dysgenesis, neuropathy, ichthyosis, and palmoplantar keratoderma syndrome - CEDNIK Syndrome {(NM_004782) "c.223delG"}
1716 - 1716	SNX10:Osteopetrosis, Autosomal Recessive 8 {(NM_001199835.1) "c.152G>A"}
1717 - 1717	SPATA7:Retinitis pigmentosa, juvenile, Autosomal Recessive {(NM_018418) "c.288T>A"}
1718 - 1721	SPG11:Spastic paraplegia 11, Autosomal Recessive {(NM_025137) "c.5986dupT" | (NM_025137.4) "c.118C>T", "c.2471dupT", "c.4339C>T"}
1722 - 1722	SPINK5:Comel-Netherton syndrome {(NM_001127698.1) "c.995delT"}
1723 - 1726	SPINK5:Netherton syndrome {(NM_001127698.1) "c.2240+5G>A", "c.2557C>T", "c.649C>T", "c.691delC"}
1727 - 1727	ST3GAL3:Early infantile epileptic encephalopathy 15 {(NM_006279.4) "c.958G>C"}

1728 - 1728	STRA6:Microphthalmia {(NM_001142617.1) "c.1678G>C"}
1729 - 1730	STRC:Deafness, Autosomal Recessive 16 {(NM_153700.2) "EX7_EX29DEL", "c.4171C>G"}
1731 - 1731	SUCLA2:Mitochondrial DNA depletion syndrome 5-SUCLA2 gene {(NM_003850) "c.788_802+29del"}
1732 - 1733	SUMF1:Multiple sulfatase deficiency {(NM_182760.3) "c.1043C>T", "c.463T>C"}
1734 - 1735	SURF1:Leigh syndrome, due to COX deficiency {(NM_003172) "c.312_321delTCTGCCAGCCinsAT", "c.575_576insTGCG"}
1736 - 1736	SYNE4:Deafness, Autosomal Recessive 76 {(NM_001039876.3) "c.228_229delAT"}
1737 - 1737	SZT2:Epileptic encephalopathy, early infantile, 18 {(NM_015284.3) "c.73C>T"}
1738 - 1739	SepSecS:Pontocerebellar hypoplasia type 2D {(NM_016955.4) "c.1001A>G", "c.715G>A"}
1740 - 1740	TAF2:Mental retardation, Autosomal Recessive 40 {(NM_003184.4) "c.557C>G"}
1741 - 1741	TBCD:Infantile neurodegenerative disorder - Early onset progressive encephalopathy (PEBAT) {(NM_005993.4) "c.1423G>A"}
1742 - 1743	TBCE:Hypoparathyroidism retardation dysmorphism syndrome {(NM_003193.5) "c.155_166delGCCACGAAGGGA", "c.355_356del"}
1744 - 1744	TBX19:Adrenocorticotropic hormone deficiency {(NM_005149.3) "c.574_577delATAG"}
1745 - 1748	TCIRG1:Osteopetrosis, Autosomal Recessive 1 {(NM_006019.4) "c.117+4A>T", "c.1331G>T", "c.1384_1386delAAC", "c.674delG"}
1749 - 1749	TCTN2:Meckel syndrome 8 {(NM_024809.5) "c.1506-2A>G"}
1750 - 1752	TECPR2:Spastic paraplegia 49, Autosomal Recessive {(NM_001172631.2) "c.1319delT", "c.3416delT", "c.566C>T"}
1753 - 1753	TGM1:Ichthyosis, congenital, Autosomal Recessive 1 {(NM_000359) "c.2290C>T"}
1754 - 1754	THG1L:Cerebellar ataxia and developmental delay {(NM_017872.5) "c.164T>C"}
1755 - 1755	TIMM50:3-methylglutaconic aciduria, type IX {(ENST00000314349.4) "c.649C>T"}
1756 - 1758	TK2:Mitochondrial DNA depletion syndrome 2 (myopathic type) {(NM_004614.5) "c.360_361delGCinsAA", "c.361C>A", "c.635T>A"}
1759 - 1759	TKT:Short stature, developmental delay, and congenital heart defects {(NM_001135055.2) "c.769_770insCTACCTCCTTATCTTCTG"}
1760 - 1764	TMC1:Deafness, Autosomal Recessive 7 {(NM_138691.2) "c.100C>T", "c.1165C>T", "c.1210T>C", "c.1810C>T", "c.1939T>C"}
1765 - 1765	TMEM165:Congenital disorder of glycosylation {(NM_018475.4) "c.792+182G>A"}
1766 - 1768	TMEM216:Joubert syndrome 2 (MKS2) {(NM_001173990.3) "c.218G>A", "c.218G>T", "c.230G>C"}
1769 - 1769	TMEM231:Meckel syndrome 11 {(NM_001077418.3) "c.664+4A>G"}
1770 - 1770	TMEM260:Neurodevelopmental, Cardiac, and Renal Syndrome {(NM_017799.3) "c.1393C>T"}

1771 - 1772	TMEM38B:Osteogenesis imperfecta, type XIV {(NM_018112) "c.455_542del", "c.507G>A"}
1773 - 1775	TMEM67:Joubert syndrome type 6 (MSK3) {(NM_153704) "c.1065+1delG" | (NM_153704.5) "c.1975C>T", "c.725A>G"}
1776 - 1779	TMEM70:ATPase deficiency, nuclear encoded {(NM_017866) "c.104dupC", "c.336T>A" | (NM_017866.6) "c.238C>T", "c.316+1G>T"}
1780 - 1781	TMPRSS3:Deafness, Autosomal Recessive 8/10 {(NM_024022) "c.1177_1184delins" | (NM_024022.2) "c.989delA"}
1782 - 1782	TNNT1:Nemaline myopathy 5, Amish type {(NM_003283) "c.574_577delinsTAGTGCTGT"}
1783 - 1783	TPP1:Ceroid lipofuscinosis, neuronal, 2 {(NM_000391) "c.775delC"}
1784 - 1784	TRAK1:Encephalopathy, fatal {(NM_001042646.2) "c.287-2A>C"}
1785 - 1785	TRAPPC9:Mental retardation, Autosomal Recessive 13 {(NM_031466.7) "c.1423C>T"}
1786 - 1786	TRIM32:Bardet-Biedl syndrome 11 {(NM_012210) "c.388C>T"}
1787 - 1787	TRIOBP:Deafness, Autosomal Recessive 28 {(NM_001039141) "c.1741C>T"}
1788 - 1789	TRMT10A:Microcephaly, short stature, and impaired glucose metabolism {(NM_152292.4) "c.616G>A", "c.727C>T"}
1790 - 1792	TRMU:LIFT, Liver failure infantile transient {(NM_018006) "c.500_509del10", "c.835G>A" | (NM_018006.5) "c.229T>C"}
1793 - 1796	TRPM1:Night blindness, congenital stationary (complete), 1C, Autosomal Recessive {(NM_002420.5) "36.4-KB_DEL,_EX2-7", "c.2567G>A", "c.2629C>T", "c.880A>T"}
1797 - 1798	TRPM6:Hypomagnesemia 1, intestinal {(NM_017662.5) "c.1010+5G>C", "c.2009+1G>A"}
1799 - 1800	TSHR:Hypothyroidism, congenital, nongoitrous, 1 {(NM_000369) "c.202C>T" | (NM_000369.2) "c.1825C>T"}
1801 - 1801	TSPAN12:Vitroretinal vascular malformations, congenital {(NM_012338) "c.542G>T"}
1802 - 1803	TTN:Cardiomyopathy, dilated - Lethal Congenital Arthrogryposis {(NM_003319.4) "c.58881dupA" | (NM_133432) "c.36122delC"}
1804 - 1804	TUBGCP4:Microcephaly, primary, Autosomal Recessive {(NM_014444.5) "c.579dupT"}
1805 - 1807	TULP1:Retinitis pigmentosa 14 {(NM_003322) "c.849_852dup" | (NM_003322.6) "c.1349G>A", "c.1495+2dupT"}
1808 - 1809	TYMP:Mitochondrial DNA depletion syndrome 1 (MNGIE type) {(NM_001113755.2) "c.433G>A", "c.866A>C"}
1810 - 1826	TYR:Albinism, oculocutaneous, type IA (OCA1A) {(NM_000372) "c.1A>G" | (NM_000372.5) "c.1037-1G>A", "c.1037-7T>A", "c.1118C>A", "c.1204C>T", "c.1217C>T", "c.1357C>T", "c.140G>A", "c.149C>G", "c.454C>T", "c.649C>T", "c.649delC", "c.74dupT", "c.757G>A", "c.832C>T", "c.880G>A", "c.896G>A"}
1827 - 1827	UNC13D:Hemophagocytic lymphohistiocytosis, familial, 3 {(NM_199242.2) "c.753+1G>T"}
1828 - 1828	UNC80:Hypotonia, infantile, with psychomotor retardation and characteristic facies 2 (HPFR2) {(NM_032504.1) "c.151C>T"}
1829 - 1829	UNC80:Hypotonia, infantile, with psychomotor retardation and characteristic facies {(NM_032504) "c.7183C>T"}
1830 - 1830	UPB1:Beta-ureidopropionase deficiency {(NM_016327.3) "c.917-1G>A"}

1831 - 1831	UQCRQ:Mitochondrial complex III deficiency, nuclear type 4 {(NM_014402.5) "c.134C>T"}
1832 - 1834	USH1C:Usher syndrome, type 1C {(NM_005709.3) "c.1220delG", "c.238dupC", "c.497-2delA"}
1835 - 1835	USH1G:Usher syndrome, type 1G {(NM_173477) "c.205dup"}
1836 - 1836	USH2A:Usher syndrome type IIA/USH2A-related disorders {(NM_206933.3) "c.5078G>A"}
1837 - 1861	USH2A:Usher syndrome, type 2A {(NM_206933.3) "c.1000C>T", "c.10211delC", "c.12052G>A", "c.12067-2A>G", "c.12575G>A", "c.13274C>T", "c.14020A>G", "c.14023A>T", "c.14413G>A", "c.14424C>A", "c.2167+5G>A", "c.2209C>T", "c.236_239dupGTAC", "c.3368A>G", "c.377delG", "c.3959C>T", "c.4544C>T", "c.5519G>T", "c.5776+1G>A", "c.6159delA", "c.6937G>T", "c.802G>A", "c.8558+1G>T", "c.8719A>C", "c.9685delG"}
1862 - 1862	USMG5:Leigh syndrome realted to USMG5 {(NM_032747) "c.87+1G>C"}
1863 - 1864	VDR:Rickets, vitamin D-resistant, type IIA {(NM_001017535.1) "c.277+1G>T", "c.885C>A"}
1865 - 1865	VIPAS39:Arthrogryposis renal dysfunction and cholestasis (ARC) syndrome 2 {(NM_022067) "c.808C>T"}
1866 - 1866	VPS11:Hypomyelination and developmental delay {(NM_021729.5) "c.2536T>G"}
1867 - 1870	VPS13A:Choreoacanthocytosis {(NM_033305.3) "c.2343delA", "c.6059delC", "c.9446_9449dup", "delexon70-73"}
1871 - 1872	VPS13B:Cohen syndrome {(NM_017890) "c.4894C>T" | (NM_017890.4) "c.6732+1G>A"}
1873 - 1874	VPS33B:Arthrogryposis renal dysfunction and cholestasis (ARC) syndrome {(NM_018668.4) "c.403+1G>A", "c.700G>C"}
1875 - 1875	VPS37A:Spastic paraplegia 53, Autosomal Recessive {(NM_152415.3) "c.1146A>T"}
1876 - 1876	VPS45:Neutropenia, severe congenital, 5, Autosomal Recessive {(NM_007259.5) "c.671C>A"}
1877 - 1878	VPS53:Pontocerebellar hypoplasia, type 2E (PCCA2) {(NM_001128159.3) "c.1556+5G>A", "c.2084A>G"}
1879 - 1879	VRK1:Pontocerebellar hypoplasia type 1A {(NM_003384.3) "c.1072C>T"}
1880 - 1882	WFS1:Wolfram-like syndrome, Autosomal Dominant {(NM_006005) "c.1230_1233delCTCT", "c.1770_1773delGTCT", "c.2590G>A"}
1883 - 1884	WISP3:Arthropathy, progressive pseudorheumatoid, of childhood {(NM_003880.3) "c.156C>A ", "c.536_537delGT"}
1885 - 1885	XPC:Xeroderma pigmentosum, group C {(NM_004628.4) "c.566_567delAT"}
1886 - 1886	XRCC2:Fanconi Anemia {(NM_005431.1) "c.643C>T"}
1887 - 1887	ZBTB24:Immunodeficiency-centromeric instability-facial anomalies syndrome-2 {(NM_014797.2) "c.501dupA"}
1888 - 1888	ZMPSTE24:Mandibuloacral dysplasia with type B lipodystrophy {(NM_005857) "c.1085dupT"}
1889 - 1890	ZNF469:Brittle cornea syndrome 1 {(NM_001127464.2) "c.5943delA", "c.9531delG"}