

Supplementary Table 1. Final diagnosis and clinical classification of patients participated in the study

Patient no.	Final diagnosis	Classification
1	Startgart syndrome	Ophthalmologic
2	Neurofibromatosis type 1	Neurocutaneous
3	Prader-Willi syndrome	Neurologic
4	Neurofibromatosis type 1	Neurocutaneous
5	Cerebrovascular diseases related to <i>Col4A1</i>	Others
6	8q21.11 microdeletion syndrome	Neurologic
7	Prader-Willi syndrome	Neurologic
8	Congenital disorder of glycosylation 11	Metabolic
9	Ullrich congenital muscular dystrophy	Muscular
10	Rett syndrome	Neurologic
11	Neurofibromatosis type 1	Neurocutaneous
12	Rett syndrome	Neurologic
13	Phenylalanine hydroxylase deficiency	Metabolic
14	Angelman syndrome	Neurologic
15	Neurofibromatosis type 1	Neurocutaneous
16	Rett syndrome	Neurologic
17	Neurofibromatosis type 1	Neurocutaneous
18	Rett syndrome	Neurologic
19	Retinitis pigmentosa associated with systemic disease	Ophthalmologic
20	Retinitis pigmentosa associated with systemic disease	Ophthalmologic
21	Retinitis pigmentosa associated with systemic disease	Ophthalmologic
22	Retinitis pigmentosa associated with systemic disease	Ophthalmologic
23	Duchenne muscular dystrophy	Muscular
24	Neurofibromatosis type 1	Neurocutaneous
25	Rett syndrome	Neurologic
26	Glutaric aciduria type 1	Metabolic
27	Neurofibromatosis type 1	Neurocutaneous
28	Neurofibromatosis type 1	Neurocutaneous
29	Neurofibromatosis type 1	Neurocutaneous
30	Rett syndrome	Neurologic
31	Rett syndrome	Neurologic
32	Rett syndrome	Neurologic
33	Rett syndrome	Neurologic
34	CHARGE syndrome	Neurologic
35	Kleefstra syndrome	Neurologic
36	Tetralogy of Fallot	Others
37	Stargardt disease	Others
38	CHARGE syndrome	Neurologic
39	CHARGE syndrome	Neurologic
40	CHARGE syndrome	Neurologic
41	CHARGE syndrome	Neurologic
42	CHARGE syndrome	Neurologic
43	Leber optic atrophy	Ophthalmologic
44	CHARGE syndrome	Neurologic
45	CHARGE syndrome	Neurologic
46	CHARGE syndrome	Neurologic
47	CHARGE syndrome	Neurologic
48	CHARGE syndrome	Neurologic
49	Genetic epileptic syndromes with onset in infancy	Neurologic
50	CHARGE syndrome	Neurologic
51	Genetic epileptic syndromes with onset in infancy	Neurologic
52	Congenital muscular dystrophy	Muscular
53	Congenital muscular dystrophy	Muscular
54	Phelan-McDermid syndrome	Neurologic

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Supplementary Table 1. Continued

Patient no.	Final diagnosis	Classification
55	Smith-Magenis syndrome	Neurologic
56	<i>ATR-X</i> -related syndromes	Neurologic
57	Costello syndrome	Neurologic
58	Congenital muscular dystrophy	Muscular
59	Prader-Willi syndrome	Neurologic
60	Duchenne muscular dystrophy	Muscular
61	Genetic epileptic syndromes with onset in infancy	Neurologic
62	Angelman syndrome	Neurologic
63	Allan-Herndon-Dudley syndrome	Neurologic
64	Mitochondrial myopathies	Muscular
65	Duchenne muscular dystrophy	Muscular
66	Early-onset parkinsonism - intellectual deficit	Neurologic
67	Stickler syndrome	Others
68	Lowe syndrome	Neurologic
69	Congenital myasthenic syndromes	Muscular
70	CHARGE syndrome	Neurologic
71	Phenylalanine hydroxylase deficiency	Metabolic
72	Leber optic atrophy	Ophthalmologic
73	Phenylalanine hydroxylase deficiency	Metabolic
74	Kabuki syndrome	Neurologic
75	Congenital adrenal gland hyperplasia	Metabolic
76	Genetic epileptic syndromes with onset in infancy	Neurologic
77	Congenital muscular dystrophy	Muscular
78	Coffin-Siris syndrome	Neurologic
79	Duchenne muscular dystrophy	Muscular
80	CHARGE syndrome	Neurologic
81	X-linked hypophosphatemia	Metabolic
82	Neurofibromatosis type 1	Neurocutaneous
83	Genetic epileptic syndromes with onset in infancy	Neurologic
84	Duchenne muscular dystrophy	Muscular
85	Retinitis pigmentosa associated with systemic disease	Ophthalmologic
86	Congenital muscular dystrophy	Muscular
87	Duchenne muscular dystrophy	Muscular
88	Congenital muscular dystrophy	Muscular
89	Congenital muscular dystrophy	Muscular
90	Prader-Willi syndrome	Neurologic
91	Congenital muscular dystrophy	Muscular
92	Panhypopituitarism	Metabolic
93	Lamb Shaffer syndrome	Neurologic
94	Congenital muscular dystrophy	Muscular
95	Opsoclonus-myoclonus-ataxia syndrome	Neurologic
96	Hereditary spastic paraplegia	Neurologic
97	Sturge-Weber syndrome	Others
98	Sotos syndrome	Others
99	Genetic epileptic syndromes with onset in infancy	Neurologic
100	Wolf-Hirschhorn syndrome	Neurologic
101	Pompe disease	Muscular

CHARGE, coloboma, heart defects, atresia choanae, growth retardation, genital abnormalities.