

Individual	1	2	3	4	5	6	7	8	9	10	11	12	13	14 (brother of 15)	15 (brother of 14)	16	17	18		
Age at last visit (years), sex	3.8, f	1, m	9.3, m	4, m	16, f	12.5, m	13, m	2, f	8, m	3.8, m	1.6, m	13.5, m	3, m	7, m	9, m	7, m	10, m	5, f		
Genetic variant	c.2051_2052dup p.(Glu685*)	c.2107G>T p.(Glu703*)	c.3034C>T p.(Gln1012*)	c.4279C>T p.(Gln1427*)	c.65del p.(Gly22Valfs*7)	c.1099_1103dupCAGTT p.(Glu369Serfs*25)	c.1646_1650del p.(Ile549Argfs*6)	c.2164_2167del p.(Lys722Valfs*17)	c.2714dup p.(Met906Tyrfs*15)	c.4829dup p.(Leu1610Phefs*259)	c.5054dup p.(Pro1686Serfs*183)	c.183_186+2del p.?	c.264A>G p.(Glu88=)	c.768+1G>A p.?	c.768+1G>A p.?	c.2848-2A>C p.?	arr[hg19] 7q22.3(104,696,686-105,407,628)x1	arr[hg19] 7q22.3(104,730,300-104,791,108)x1		
Inheritance	dn	dn	dn	dn	n/a*	paternal	dn	dn	dn	dn	dn	dn	dn	dn	paternal	n/a*	dn	dn		
Dysmorphic features	+ → OFC Z-score at last visit +3.0	+ n/a	+ +2.7	+ +3.3	+ n/a	- +1.0	+ +2.5	- +1.2	- n/a	+ +3.5	- n/a	- n/a	- n/a	- +0.9	- -0.3	+ n/a	+ +1.8	+ n/a		
Macrocephaly (Z>2.0)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dolichocephaly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Large forehead	+	-	+	+	+	-	+	+	n/a	-	+	-	-	-	-	+	-			
Epicantal folds	+	+	+	+	+	-	-	-	n/a	-	-	-	-	-	-	-	+			
Deep-set eyes	+	-	+	-	-	+	-	-	n/a	-	-	-	-	-	-	+	-			
Prominent nasolabial folds	-	-	-	-	-	+	-	-	n/a	-	-	-	-	-	-	-	-			
Full cheeks	+	-	+	-	-	+	-	-	n/a	-	-	-	-	-	+	+	-			
Small ears	+	-	-	-	-	+	-	-	n/a	-	-	-	-	-	-	-	-			
Finger/toe clinodactyly	+	-	+	-	-	n/a	-	-	-	-	-	-	-	-	-	-	-			
Neurodevelopmental features	+ → Walking unsupported at 24 months + (after regression)	+ n/a	- n/a	+ n/a	+ n/a	23 months + (after regression)	+ n/a	23 months + (after regression)	+ n/a	+ n/a	23 months + (after regression)	19 months normal	24 months no walking so far	14 months no speech	11 months no speech	15-16 months no speech	>12 months no speech	23 months no speech	+ n/a	+ 18 months
Developmental motor delay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
→ Developmental speech delay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
→ First words with 10 months	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Developmental regression	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Intellectual disability	n/a	+	-	-	-	n/a	-	-	n/a	-	-	-	-	-	-	-	-			
→ IQ	n/a	n/a	n/a	n/a	n/a	n/a	69 (VIQ: 71, PIQ: 65)	n/a	n/a	83	n/a	n/a	n/a	high average IQ	n/a	n/a	VIQ: 71, PIQ: 63	n/a		
Autism spectrum disorder	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Pathological EEG	+	-	-	-	-	n/a	-	-	n/a	-	-	-	-	-	-	-	-			
→ Epilepsy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
→ Febrile seizures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Muscular hypotonia	+	-	-	-	+	+	-	-	+	-	-	-	-	-	-	-	-			
Behavioral	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ADHD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Stereotypical behavior	-	-	-	-	+	+	-	-	+	-	-	-	-	-	-	-	-			
Self-injurious behavior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Aggressive behavior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Sleep disturbances	+	-	+	+	+	+	-	n/a	-	-	+, normal at 3y	-	-	-	-	-	-			
Organ malformations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Corpus callosum hypoplasia	-	+	-	+	n/a	-	-	n/a	-	-	n/a	n/a	-	-	-	-	-			
Ventriculomegaly	+	-	-	-	n/a	-	-	n/a	-	-	n/a	n/a	-	-	-	-	-			
Reduced brain volume	+	-	-	-	n/a	-	-	n/a	-	-	n/a	n/a	-	-	-	-	-			
Cerebral cysts	-	+	+	-	n/a	-	-	n/a	-	-	n/a	n/a	-	-	-	+	-			
Delayed myelination	+	+	-	+	n/a	+	-	n/a	-	-	n/a	n/a	-	-	-	-	-			
Gastrointestinal features	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Constipation	+	+	+	+	-	+	-	+	+	-	-	-	-	-	-	-	-			
Gastroesophageal reflux	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Vomiting	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Other	Hyperalaninemia, borderline elevated serum lactate, strabismus	26wk premature, large VSD, ROP, recurrent ALTE/BRUE, multiple ependymal nodules and small pituitary on brain MRI	Aphasia, dysphasia, additional MYH8 variant segregating with trismus-pseudocamptodactyly in the family, central apnea, brachycephaly	Mild left eye strabismus, additional polyuria at birth. Additional de novo variant: CHD8 c.3340G>T, p.(Glu114*)	Diarrhea	Almost daily headaches	Mega cisterna magna, sensory integration disorder, verbal dyspraxia, high pain threshold	Congenitally adducted thumbs requiring splinting	Headaches, insensitivity to pain	Supernumerary nipple	Failure to thrive, recurrent respiratory infections, double hair whorl, ears posteriorly rotated, full lips	Brachymetacarpia, Brachymetatarsia, Anxiety disorder, selective mutism. High-arched palate, cutis marmorata. Obesity	None	Preauricular sinus on left ear, sinus at crus helix on right ear, pervasive developmental disorder, bleeding tendency, mild to moderate sensorineural hearing impairment (homozygous variant: GJB2 c.109G>A, p.(Val37Ile))	Atypical autism, bleeding tendency	None	Everted lower lip, low-hanging columella, pervasive developmental disorder	Bilateral periventricular heterotopia, pachygryia		

\* The mother does not carry the variant, father unavailable for testing

n/a: not available, VIQ: Verbal IQ, PIQ: Performance IQ, VSD: ventricular septal defect, ROP: retinopathy of prematurity, ALTE/BRUE: apparent life-threatening event/brief resolved unexplained event