

Supplementary Table1 Summary of clinical presentations, and CMA and molecular findings in nine individuals with *TRIP12* mutations

	#Suppl 1	#Suppl 2
Gender	Male	Male
Age at examination (years)	2.8 yo	2.75 yo
<i>TRIP12</i> Variant (NM_004238)	Splicing c.1145-2A>C	Deletion of 4 exons (1-4) of <i>TRIP12</i> and <i>FBXO36</i> 2q36.3 del Size: 144 Kb del
Ethnicity	Mexican-American	NA
Inheritance	Mother negative, father NA	Parents ND
Maternal age at birth (years)	20	NA
Paternal age at birth (years)	21	NA
DD/ID	+	+
Autism/Autistic behaviors	+. Aggression behavioral problems	ND
Speech delay	-	+
Motor delay	- Reported to be clumsy, falls and bumps frequently	+
Microcephaly/OFC (cm) (percentile)	-	ND
Obesity/Weight (kg, percentile)	-12.7kg (28%)	-
Height (cm)	89.5cm (33%)	113.5 (6%)
Head shape	Plagiocephaly	ND
Narrow palpebral fissures	-	ND
Downturned mouth corners	+	ND
Hypertelorism	+	ND
Depressed nasal bridge	+	ND
Long philtrum	-(short philtrum)	ND
Large ear lobe	-(mildly dysplastic ears)	ND

Abbreviations are as follows: NA, not available; ND, not determined because of non-availability or non-applicability

Supplementary Table2 Predicted interpretations of *TRIP12* SNP mutations

Subjects	Genomic coordinate	Nucleotide	Protein	RawScore	CADD Score
Subject 6	Chr2:230661450	c.3446_3447delCA	p.S1149X	8.643724	35
Subject 7	Chr2:230666969	c.2979dupA	p.G994Rfs*5	8.334326	35
Subject 8	Chr2:230672494	c.2282C>T	p.A761V	2.814147	21.4
Subject 9	Chr2:230659894	c.3743+1G>A	?	6.045971	28