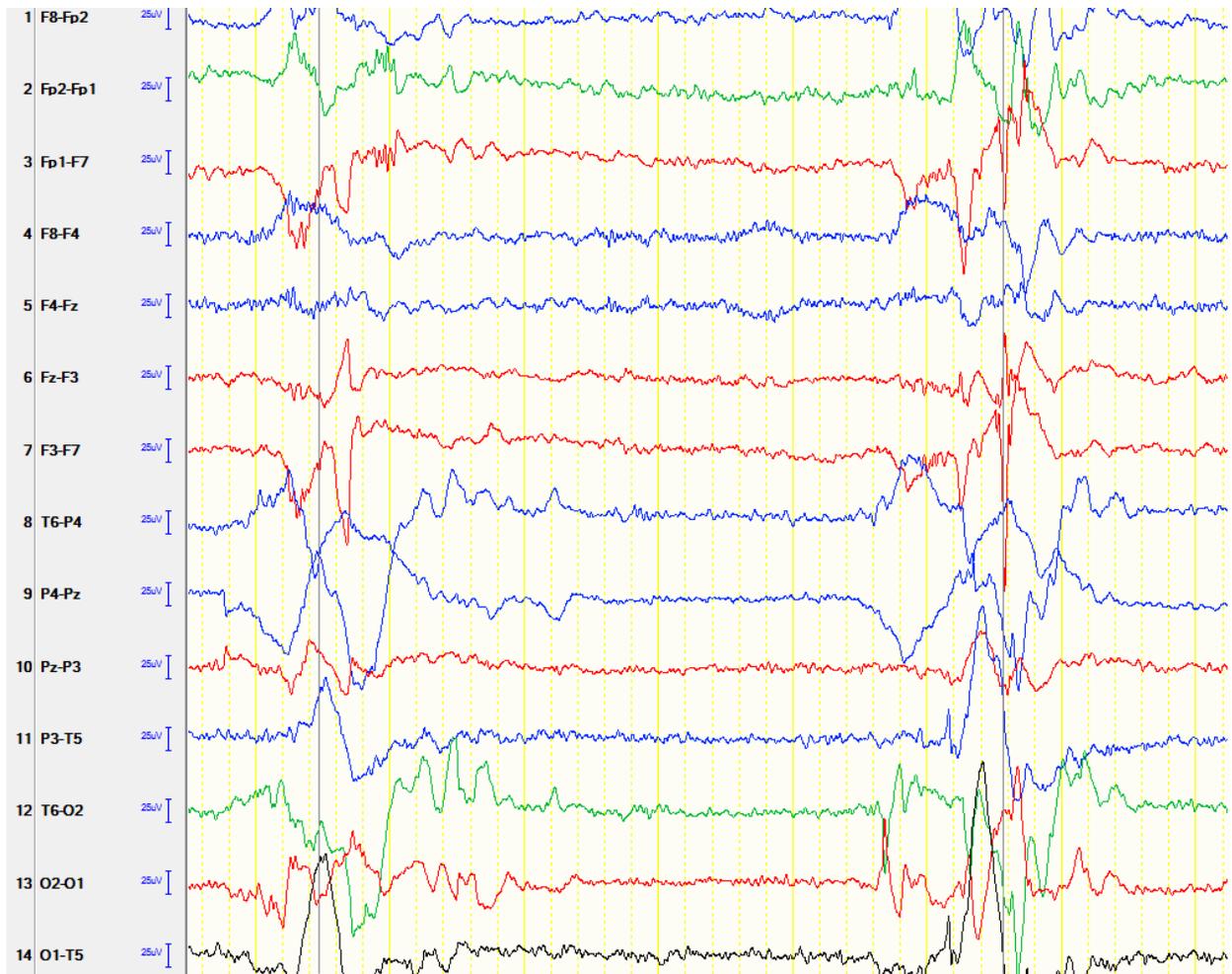


**Supplemental Data**

**Mutations in *TRAPPC12* Manifest in Progressive**

**Childhood Encephalopathy and Golgi Dysfunction**

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**Figure S1.** EEG at six months of age in 1:II-8 shows disorganized background activity with multifocal and generalized epileptiform activity consistent with hypsarrhythmia.

**Table S1. Candidate recessive genetic causes based on exome sequencing in families F4331 and UW336**

<b>F4331 Family</b>												
Chr	bp (hg19)	ref	alt	gene	cDNA change	AA change	ExAC MAF	GERP	CADD	MT	rs	
2	3391538	CG	C	<i>TRAPPC12</i>	NM_016030.5:c.145del	p.Glu49Argfs*14	NR	5.00	16.18	D	NR	
3	126070876	C	A	<i>KLF15</i>	NM_014079.3:c.890G>T	p.Gly297Val	NR	4.25	10.94	D	NR	
3	126722227	G	A	<i>PLXNA1</i>	NM_032242.3:c.1432G>A	p.Val478Ile	0.0008	4.43	17.75	D	rs199693063	
3	148601571	C	T	<i>CPA3</i>	NM_001870.2:c.950C>T	p.Thr317Ile	0.0018	4.77	20.2	D	rs142588358	
5	56155651	G	A	<i>MAP3K1</i>	NM_005921.1:c.743G>A	p.Arg248Gln	0.0002	5.72	20.5	D	rs201579608	
7	111926991	T	C	<i>ZNF277</i>	NM_021994.2:c.155T>C	p.Leu52Ser	0.000008	1.97	13.74	P	rs764056350	
8	10467637	T	C	<i>RP1L1</i>	NM_178857.5:c.3971A>G	p.Glu1324Gly	NR	-1.85	6.54	P	rs4240659	
12	49725054	T	C	<i>TROAP</i>	NM_005480.3:c.2156T>C	p.Leu719Ser	0.0001	4.73	17.59	P	rs545155075	
13	52676340	T	C	<i>NEK5</i>	NM_199289.1:c.698A>G	p.His233Arg	0.004	-7.44	0.009	P	rs56369842	
13	52710344	C	T	<i>NEK3</i>	NM_001146099.1:c.1031G>A	p.Arg344Gln	0.0016	0.85	8.65	P	rs74087069	
X	48460322	G	A	<i>WDR13</i>	NM_017883.4:c.982G>A	p.Val328Ile	0.0005	3.65	0.18	P	rs150193416	
X	63409994	G	A	<i>AMER1</i>	NM_152424.3:c.3173C>T	p.Pro1058Leu	0.00002	4.83	17.58	D	rs760083711	
X	73641702	C	A	<i>SLC16A2</i>	NM_006517.4:c.230C>A	p.Pro77His	NR	2.24	12.49	P	NR	
X	101139020	T	G	<i>ZMAT1</i>	NM_001011657.3:c.1379A>C	p.Gln460Pro	NR	3.22	13.25	P	NR	
X	117758578	G	C	<i>DOCK11</i>	NM_144658.3:c.3548G>C	p.Gly1183Ala	0.00001	5.53	6.79	D	rs370985549	
<b>UW336 Family</b>												
Chr	bp (hg19)	ref	alt	gene	cDNA change	AA change	ExAC MAF	GERP	CADD	MT	rs	
2	3391754	C	CC	<i>TRAPPC12</i>	NM_016030.5:c.360_361insC	p.Glu121Argfs*7	NR	1.09	9.89	D	NR	
2	3482619	C	T	<i>TRAPPC12</i>	NM_016030.5:c.1880C>T	p.Ala627Val	0.000008	5.92	21.3	D	rs768950892	
21	37581084	G	A	<i>DOPEY2</i>	NM_005128.2:c.563G>A	p.Ser188Asn	0.008263	4.11	20.2	P	rs142091518	
21	37597909	C	G	<i>DOPEY2</i>	NM_005128.2:c.1417C>G	p.Pro473Ala	0.008141	5.05	17.66	P	rs138343054	

alt=alternate base, bp=base pair position (hg19 reference genome), CADD=Combined Annotation Dependent Depletion version 1.0, Chr=Chromosome, D=Disease Causing per Mutation Taster, ExAC MAF=Exome Aggregation Consortium Minor Allele Frequency, GERP=Genomic Evolutionary Rate Profiling, NR=Not Reported, P=Polymorphism per Mutation Taster, ref=reference base, rs= Reference SNP cluster ID