

Supplementary Table S3. List of non causative CNVs (N-CNV) in reference to CAS detected in the sample.

Index case	assembly	band	5'-breakpoint	3'-breakpoint	Lenght (bp)	Dup/Del	Parental origin	Genes in the region*
<b>Case 29</b>	hg19	Yp11.2	7241462	8028897	787435	Dup	Father	<i>PRKY, TTTY12, TTTY16</i>
<b>Case 30, 31**</b>	hg19	Xq21.1	77456789	77912844	456055	Dup	Mother	<i>CYSLTR1, ZCCHC5/RTL3</i>
<b>Case 32</b>	hg19	15q26.1	89349006	89802278	453272	Dup	Father	<i>ACAN, HAPLN3, MFGE8, ABHD2, RLBPI, FANCI</i>
<b>Case 33</b>	hg19	5p13.3	33120288	33282513	162225	Del	Adopted	<i>LINC02160</i>
	hg19	Yq11.22	24361332	24874501	513169	Del	Adopted	<i>TTY5, RBMY2FP, RBMY1F, RBMY1J, PRY, LOC101929148, TTTY6</i>
<b>Case 34</b>	hg19	4q28.1	127722226	127994826	272600	Del	Father	none
<b>Case 35</b>	hg19	13q34	114490012	114581677	91665	Del	n.a.	<i>TMEM255B, GAS6, GAS6-AS1, GAS6-AS2, LINC00454</i>
<b>Case 36</b>	hg19	9q33.1	118997913	119111534	113621	Dup	Mother	<i>PAPPA</i>
<b>Case 37</b>	hg19	7q21.3	93355870	93516838	160968	Del	Father	<i>TFPI2</i>
	hg19	10q26.2	129846011	129977860	131849	Dup	Mother	<i>PTPRE, AS-PTPRE, MKI67</i>
<b>Case 38</b>	hg19	14q31.3	87997862	88365750	367888	Del	Father	<i>LINC02330</i>
<b>Case 39</b>	hg19	3p21.31	44997133	45313328	316195	Dup	Mother	<i>ZDHHC3, EXOSC7, CLEC3B, CDCPI, TMEM158</i>
<b>Case 40</b>	hg19	7q31.1	109574852	109643998	69146	Del	Mother	<i>EIF3IP1</i>
<b>Case 41</b>	hg19	5p13.3	31484812	31681361	196549	Dup	Mother	<i>DROSHA, C5ORF22, PDZD2</i>

Legend: Dup/Del, duplication/deletion; n.a., not available; \*, genes expressed in the brain; \*\*, siblings (discordant phenotype)