Table S2. Analysis of the aggregate frequency of *ZFHX3* variants identified in this study

Identified *ZFHX3* variants	Allele count/number in this study	Allele count/number in controls of gnomAD-all populations	Allele count/number in controls of gnomAD-East Asian populations	Allele count/number in ExAC populations	Allele count/number in controls of Epi25 WES browser	Number of Homozygotes in controls of gnomAD
c.314C>T/p.Pro105Leu	1/756	34/112352	25/9804	23/104844	15/66264	0
c.2282G>C/p.Gly761Ala	1/756	22/109332	11/9042	16/119178	10/66888	0
c.2419G>A/p.Glu807Lys	1/756	10/109406	0/9046	6/121404	1/66888	0
c.2671T>C/p.Phe891Leu	1/756	–/–	–/–	–/–	–/–	-
c.2686G>A/p.Ala896Thr	1/756	24/108908	1/9046	17/119382	2/66868	0
c.4125_4127del/p.Ala1376del	1/756	8/120262	8/9962	6/121388	0/66888	0
c.5152A>C/p.Met1718Leu	1/756	2/109258	2/9022	1/119740	1/66886	0
c.6161C>T/p.Ala2054Val	1/756	2/105822	1/8870	2/115778	–/–	0
c.9583_9584insT/p.Pro3195LeufsTer44	1/756	8/119370	2/9686	60/118664	–/–	0
c.10439C>T/p.Ala3480Val	1/756	7/119956	7/9942	5/118166	0/66884	0
c.10445G>T/p.Ser3482Ile	2/756	30/119978	30/9938	25/117840	9/66884	0
c.10510G>C/p.Val3504Leu	1/756	–/–	–/–	–/–	–/–	-
c.10853C>A/p.Pro3618Gln	3/756	35/116270	35/9678	23/112466	5/66408	0
Total	16/756	182/120262	122/9962	184/121404	43/66888	0
P value†		2.3×10^{-13}	4.36×10^{-2}	2.34×10^{-13}	3.56×10^{-18}	
OR (95% CI)		14.27 (7.94-23.95)	1.74 (0.96-2.97)	14.25 (7.93-23.91)	33.61 (18.85-59.94)	

†P values and odds ratio were estimated with a 2-sided Fisher's exact test.

Abbreviations: CI, confidence interval; gnomAD, Genome Aggregation Database; ExAC, Exome Aggregation Consortium; Epi25, a whole-exome sequencing case-control study of epilepsy; OR, odds ratio