

**TABLE S1. KCC2 (*SLC12A5*) variants detected in the IGE cohort, and corresponding Exome Variant Server data.**

Non-synonymous variants detected in the “hotspot”		Detection of variants in IGE cohort			Control data - Exome Variant Server							
					European American data				All data			
mRNA (NM_020708.4)	Protein (NP_065759)	Number of probands	Number of alleles	Allele frequency (%)	Number of alleles	Allele frequency (%)	p-value	Odds ratio	Number of alleles	Allele frequency (%)	p-value	Odds ratio
c.2855 G>A	p.R952H	5/380	5/760	0.66	6/8600	0.07	1.09X10 <sup>-3</sup>	9.42 CI <sub>95</sub> [2.3-37.1]	7/13006	0.05	2.97X10 <sup>-4</sup>	12.22 CI <sub>95</sub> [3.1-44.8]
c.3145 C>T	p.R1049C	3/380	3/760	0.39	0/8600	0.00	5.39X10 <sup>-4</sup>	Inf CI <sub>95</sub> [4.7-Inf]	0/13006	0.00	1.70X10 <sup>-4</sup>	Inf CI <sub>95</sub> [7.1-Inf]
Total number of non-synonymous alleles detected		8/380	8/760	-	14/8600	-	2.20X10 <sup>-4</sup>	6.46 CI <sub>95</sub> [2.3-16.6]	19/13006	-	7.67X10 <sup>-5</sup>	7.20 CI <sub>95</sub> [2.7-17.3]