Supplementary material J Med Genet

**Supplemental Table 1**: Electrophysiological characteristics of wild-type and heterozygous Kv1.1 channels. The voltage-dependent parameters of activation ( $V_{1/2}$  and k) were obtained from the Boltzmann equation as described in Methods. Data are presented as mean  $\pm$  SEM, with the number of investigated cells in parentheses. WT: wild-type Kv1.1 channel; WT/p.Val368Leu cotransfection of wild-type and mutant channel (p.Val368Leu).  $V_{1/2}$  is the voltage of half-maximal activation. k is the slope factor.

	WT	WT/ p.Val368Leu
	(n=11)	(n=15)
$V_{1/2}$ (mV)	-26.7 ± 1.2	-26.1 ± 1.6
k (mV)	$7.4 \pm 0.6$	$6.6 \pm 0.5$