

**Table S1. Parameters that were not altered by Kv1.1 transduction**

	CT	WT	RX	TR
Resting membrane potential (mV)	-64.6±1.9 (27)	-60.2±3.5 (37)	-62.9±1.8 (41)	-64.2±1.9 (30)
Capacitance (pF)	70±5.1 (29)	64±3.3 (37)	66±3.6 (41)	77.7±5.5 (30)
Input resistance (MΩ)	365.9±20.9 (90)	344.7±18.8 (102)	339.2±19.0 (97)	303.5±21.8 (61)
Spike voltage threshold (mV)	-25.3±1.3 (18)	-25.1±1.2 (25)	-29.2±2.3 (15)	-23.9±1.8 (12)
Spike amplitude (mV)	57.4±2.3 (18)	52.7±2.2 (25)	56.7±3.0 (15)	55.8±2.6 (12)

Data are given as mean±s.e.m. (n).