

Supplemental Table 1. Plasma hematological indices from WT and SAD mice carrying individual and combined knockouts of *Kcnn4*, *Kcc1* and *Kcc3*.

Genotype	n	T. Bili (mg/dL)	LDH (U/L)	Iron (μg/dL)
WT^{Kcnn4}	6	0.8 \pm 0.2	561.2 \pm 102	123.8 \pm 15
<i>Kcnn4</i>^{-/-}	12	0.2 \pm 0**	335.8 \pm 41*	115.2 \pm 5
WT^{SAD}	9	0.4 \pm 0.1	314.7 \pm 28	109.6 \pm 4.4
<i>Kcnn4</i>^{-/-};<i>Kcc1</i>^{-/-};<i>Kcc3</i>^{-/-}	6	0.2 \pm 0.1	321.3 \pm 32	129.0 \pm 21
SAD	6	0.5 \pm 0.3	441.3 \pm 53*	99.4 \pm 4
SAD;<i>Kcnn4</i>^{-/-}	6	0.1 \pm 0	390.2 \pm 60	109.5 \pm 6
SAD;<i>Kcnn4</i>^{-/-};<i>Kcc1</i>^{-/-};<i>Kcc3</i>^{-/-}	6	0.2 \pm 0.1	371.3 \pm 45	119.2 \pm 7*

Supplemental Table 2. Spleen/weight Ratio stratified by sex.

Genotype	Female	Male	p value
WT^{C57}	3.7±0.1(29)	3.2±0.3 (4)	ns
WT^{SAD}	3.65±.12 (48)	2.84±0.1 (72)	0.0001
WT^{Kcnn4}	5.55±0.9 (73)	3.7±0.95 (81)	0.0001
Kcnn4^{-/-}	6.09±0.2 (95)	4.2±0.1 (72)	0.0001
2xKO	2.76±0.1 (39)	2.75±0.1(44)	ns
3xKO	7.78±0.4 (34)	7.4±0.3 (27)	ns
SAD	5.6±0.3 (44)	3.7±0.1 (54)	0.0001
SAD;Kcnn4^{-/-}	7.5±0.6 (32)	5.2±0.5 (45)	0.0001
SAD;2xKO	2.74±0.6 (7)	3.9±0.7 (8)	ns
SAD;3xKO	9.9±0.7 (22)	8.1±0.6 (19)	ns



