**Supplementary File 1.** ECG quantification of *GBT411-/-* mutant at 10 months of age

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|  | **Genotype** | **Age** | **N** | **SA incidence (%)** | **SA Frequency (epm)** | **Heart rate (bpm)** |
| Baseline | WT | 10 m | 8 | 0(0.0) | - | 108.8±25.5 |
| *GBT411-/-* | 10 m | 8 | 9(12.5) | 1.0 | 102.6±9.3 |
| Verapamil | WT | 10 m | 8 | 2(25.0) | 3.4±0.6 | 80.3±11.5 |
| *GBT411-/-* | 10 m | 9 | 8(88.9)\* | 5.2±3.2 | 71.5±8.8\* |

SA, sinus arrest. epm, episode per minute. bpm, beats per minute. N=8-9. \*, *P*<0.05, data are expressed as mean±SEM. For SA incidence comparison, Chi-square test. For heart rate comparison, unpaired student *t-*test.