Supplementary material



Supplementary Figures

Supplementary Figure 1. Firing rates and miniature excitatory synaptic currents - *refers to Figure 1.*

(A) Representative firing pattern of MSNs (top) obtained with current injection (bottom) showing that similar depolarization at 25ms (doted lines) after the current injection results in similar number of AP. (B) Firing frequency vs. membrane depolarization, one-way RM ANOVA ($F_{(1,31)} = 0.43$, p = 0.52). (C) Representative recordings of mEPSCs. (D) Representative average mEPSCs. (E) mEPSCs frequency, two-tails unpaired t test (t = 2.30 df = 23, p = 0.03). (F) mEPSCs amplitude, two-tails unpaired t test (t = 1.37 df = 23, p = 0.18). Sample size (N = neurons/mice), for B: WT: N = 17/3; LSL: N = 16/3 and for E, F: WT: N = 14/7; LSL: N = 11/6. Data represents dot plots (one neuron) with mean ± SEM. *p ≤ 0.05.



Supplementary Figure 2. Neurodevelopmental profile (Active properties) – *refers to Figure 2.*

(A) F-I Slope (top), mean \pm SEM showing similar changes between LSL and WT over time (table S2); individual data obtained at different time points during development (bottom); regression analysis did not reveal a significant correlation for majority of the tested models (table 3); (B) Maximum firing rate mean \pm SEM (top) showing similar changes for LSL and WT over time (table S2); individual data obtained at different time points during development (bottom); regression analysis did not reveal a significant correlation for majority of the tested model (table 3) (C) AP Threshold Mean \pm SEM (top) showing similar changes between LSL and WT over time (table S2); individual data obtained at different time points during development SEM (top) showing similar changes between LSL and WT over time (table S2); individual data obtained at different time points during development (bottom); regression analysis did not reveal a significant correlation for majority of the tested model (table 3) (C) AP Threshold Mean \pm SEM (top) showing similar changes between LSL and WT over time (table S2); individual data obtained at different time points during development 9bottom); regression analysis did not reveal a significant correlation for majority of the tested model (table S2); individual data obtained at different time points during development 9bottom); regression analysis did not reveal a significant correlation for majority of the tested model (table S2); individual data obtained at different time points during development 9bottom); regression analysis did not reveal a significant correlation for majority of the tested model (table 3).



Supplementary Figure 3. UBE3A levels – *refers to Figure 4 and 5* (**A**) Schematic representation of *Ube3a* gene reinstatement (left, middle) or deletion (right) at different type points during development and the time point of Western blot quantification of UBE3A proteins (**B**), (**C**), (**D**) Relative UBE3A expression (top), Examples of Western blot analysis in striatum (bottom), after reinstatement of *Ube3* gene at P21 in (B), P70 in (C), and deletion of *Ube3* gene at P45 in (D). Two-way RM ANOVA: (B) ($F_{(1, 12)} = 33.66$, p < 0.001), *Post hoc* Bonferroni: LSL-VEH against WT-VEH (p < 0.001), LSL-VEH against WT-TAM (p < 0.001), LSL-VEH against LSL-TAM (p < 0.001), LSL-VEH against WT-TAM (p < 0.001), LSL-VEH against WT-VEH (p < 0.001), LSL-VEH against WT-VEH (p < 0.001), LSL-VEH against WT-TAM (p = 1); (C) ($F_{(1, 12)} = 72.27$, p < 0.001), *Post hoc* Bonferroni: Flox-TAM against WT-TAM (p < 0.001), Flox-TAM against WT-TAM (p < 0.001), Flox-TAM against WT-VEH (p < 0.001), Flox-VEH against WT-VEH (p = 1). Sample size: N = 4 mice in each condition.: Data represents dot plots (one mouse) with mean ± SEM. *p ≤ 0.05 , ***p ≤ 0.001

Supplementary Tables Supplementary Table I. Developmental profile of the electrophysiological phenotypes (passive properties and synaptic transmission) – refers to Figure I and 2

| gure | | Parameter | Age | Genotypes | Genotypes (Mean ± SEM) | | | |
|-------|---|---|-------|----------------|------------------------|--------|---------|--|
| Figu | | | J | WT | LSL | Test | þ value | |
| | | | P15 | 104.62 ± 9.25 | 100.77 ± 13.33 | | 0.877 | |
| | | Rheobase (pA) | P2 I | 189.15 ± 9.87 | 150.79 ± 6.66 | - | 0.010 | |
| | с | | P35 | 252.95 ± 19.33 | 180.00 ± 15.01 | _ | 0.000 | |
| | | | P45 | 276.00 ± 19.27 | 180.0 ± 15.89 | - | 0.000 | |
| | | | P130° | 287.78 ± 13.20 | 198.62 ± 9.68 | _ | 0.000 | |
| | | | P15 | 68.70 ± 1.73 | 71.80 ± 3.15 | _ | 0.698 | |
| | | | P2 I | 105.00 ± 3.90 | 88.30 ± 2.86 | _ | 0.001 | |
| | D | Сарасitance (рF) | P35 | 111.00 ± 4.52 | 89.60 ± 4.60 | | 0.001 | |
| | | | P45 | 109.00 ± 4.72 | 89.30 ± 5.80 | _ | 0.002 | |
| | | | P130ª | 114.00 ± 4.91 | 100.00 ± 3.73 | | 0.016 | |
| | E | Input resistance hyperpolarized (Mohm) | P15 | 106.50 ± 8.19 | 124.93 ± 8.03 | est | 0.029 | |
| | | | P2 I | 58.71 ± 3.51 | 72.39 ± 3.54 | LSD te | 0.016 | |
| ure 2 | | | P35 | 46.90 ± 5.87 | 60.31 ± 5.60 | nova, | 0.087 | |
| Fig | | | P45 | 46.59 ± 4.54 | 63.27 ± 5.44 | hoc A | 0.014 | |
| | | | P130ª | 41.36 ± 3.20 | 54.87 ± 3.02 | Post | 0.032 | |
| | | Input resistance depolarized (Mohm) | P15 | 552.10 ± 66.34 | 467.30 ± 66.86 | | 0.358 | |
| | | | P2 I | 419.20 ± 40.55 | 535.00 ± 48.27 | - | 0.043 | |
| | F | | P35 | 314.01 ± 58.72 | 472.30 ± 56.49 | _ | 0.036 | |
| | | | P45 | 227.80 ± 41.71 | 430.50 ±64.52 | | 0.007 | |
| | | | P130ª | 209.30 ± 20.99 | 352.40 ± 39.50 | _ | 0.039 | |
| | | | P15 | 1.18 ± 0.09 | 1.45 ± 0.20 | | 0.541 | |
| | | | P21 | 2.89 ± 0.19 | 2.37 ± 0.15 | 1 | 0.014 | |
| | н | sEPSC frequency (Hz) | P35 | 3.35 ± 0.19 | 2.38 ± 0.25 | 1 | 0.021 | |
| | | | P45 | 3.40 ± 0.20 | 2.50 ± 0.16 | 1 | 0.045 | |
| | | | P130ª | 3.86 ± 0.33 | 2.92 ± 0.23 | 1 | 0.000 | |

a) Refers also to Mean and SEM in Figure 1

Supplementary Table 2. Developmental profile of the electrophysiological phenotypes (active properties) – refers to Figure

I and 2 and SI

| Figure | | Parameter | Age | Genotypes (Mean ± SEM) | | Statistics | |
|--------|---|------------------|-------|------------------------|---------------|-------------------|---------|
| | | | | WT | LSL | Test | p value |
| | Α | F-I slope (Hz/s) | P15 | 0.16 ± 0.007 | 43.08 ± 1.60 | Post hoc Anova | 0.287 |
| | | | P2 I | 0.15 ± 0.006 | 39.16 ± 0.93 | LSD test | 0.160 |
| | | | P35 | 0.15 ± 0.005 | 42.53 ± 1.94 | | 0.172 |
| | | | P45 | 0.148 ± 0.007 | 39.76 ± 1.19 | - | 0.146 |
| | | | P130ª | 0.16 ± 0.004 | 40.10 ± 1.94 | - | 0.735 |
| re | В | Maximum firing | P15 | 41.54 ± 1.83 | 43.08 ± 1.60 | - | 0.562 |
| Figu | | frequency (112) | P2 I | 38.52 ± 1.21 | 39.16 ± 0.93 | - | 0.685 |
| ıtary | | | P35 | 41.06 ± 1.20 | 42.53 ± 1.94 | | 0.499 |
| emer | | | P45 | 39.6 ± 1.4334 | 39.76 ± 1.19 | - | 0.937 |
| olqqu | | | P130ª | 42.45 ± 1.1 | 40.10 ± 1.94 | | 0.234 |
| S | с | AP threshold | P15 | -43.05 ± 0.55 | -43.08 ± 1.31 | | 0.980 |
| | | (1114) | P2 I | -39.24 ± 0.73 | -40.32 ± 0.71 | | 0.186 |
| | | | P35 | -42.32 ± 0.56 | -42.96 ± 0.51 | | 0.573 |
| | | | P45 | -41.30 ± 0.59 | -41.72 ± 0.60 | | 0.666 |
| | | | P130ª | -41.59 ± 0.52 | -40.76 ± 0.51 | | 0.381 |

a) Refers also to Mean and SEM in Figure 1

| Rheobase | | | | | | | | |
|-----------------------|--------------|----------|----------------|-----------|-----------|-----------|--------|---------------|
| М | odel Summary | R Square | F(1,110) | Sig. | Constant | ы | b2 | Ь3 |
| | Linear | 0.203 | 28.089 | 0 | 181.169 | 0.865 | n.a. | n.a. |
| | Logarithmic | 0.335 | 55.335 | 0 | -22.131 | 67.966 | n.a. | n.a. |
| | Inverse | 0.442 | 87.084 | 0 | 327.689 | -3109.781 | n.a. | n.a. |
| | Quadratic | 0.409 | 37.697 | 0 | 80.47 | 5.141 | -0.026 | n.a. |
| Equation ^a | Cubic | 0.465 | 31.322 | 0 | -1.812 | 9.967 | -0.091 | 0 |
| | Compound | 0.197 | 26.931 | 0 | 165.098 | 1.004 | n.a. | n.a. |
| | Power | 0.335 | 55.33 | 0 | 59.139 | 0.342 | n.a. | n.a. |
| | S | 0.467 | 96.216 | 0 | 5.853 | -16.076 | n.a. | n.a. |
| | Growth | 0.197 | 26.931 | 0 | 5.107 | 0.004 | n.a. | n.a. |
| | Exponential | 0.197 | 26.931 | 0 | 165.098 | 0.004 | n.a. | n.a. |
| | Logistic | 0.197 | 26.931 | 0 | 0.006 | 0.996 | n.a. | n.a. |
| | | • | Cap | oacitance | • | | • | |
| м | odel Summary | R Square | F(1, 100) | Sig. | Constant | ы | Ь2 | Ь3 |
| | Linear | 0.058 | 6.14 | 0.015 | 97.647 | 0.123 | n.a. | n.a. |
| | Logarithmic | 0.14 | 16.308 | 0 | 60.712 | 11.795 | n.a. | n.a. |
| | Inverse | 0.24 | 31.545 | 0 | 123.655 | -611.015 | n.a. | n.a. |
| | Quadratic | 0.304 | 21.637 | 0 | 67.656 | 1.374 | -0.007 | n.a. |
| ° no | Cubic | 0.307 | 14.472 | 0 | 62.752 | 1.66 | -0.011 | 1.45E- 05 |
| uati | Compound | 0.058 | 6.213 | 0.014 | 94.892 | 1.001 | n.a. | n.a. |
| Eq | Power | 0.15 | 17.702 | 0 | 64.853 | 0.121 | n.a. | n.a. |
| | S | 0.27 | 37.009 | 0 | 4.822 | -6.417 | n.a. | n.a. |
| | Growth | 0.058 | 6.213 | 0.014 | 4.553 | 0.001 | n.a. | n.a. |
| | Exponential | 0.058 | 6.213 | 0.014 | 94.892 | 0.001 | n.a. | n.a. |
| | Logistic | 0.058 | 6.213 | 0.014 | 0.011 | 0.999 | n.a. | n.a. |
| | | | Input resistar | nce hyper | bolarized | | | r |
| М | odel Summary | R Square | F(1, 94) | Sig. | Constant | ы | Ь2 | Ь3 |
| | Linear | 0.152 | 16.834 | 0 | 69.821 | -0.232 | n.a. | n.a. |
| | Logarithmic | 0.283 | 37.074 | 0 | 129.339 | -19.493 | n.a. | n.a. |
| | Inverse | 0.43 | 70.993 | 0 | 27.085 | 951.31 | n.a. | n.a. |
| | Quadratic | 0.348 | 24.84 | 0 | 100.744 | -1.516 | 0.008 | n.a. |
| ° no | Cubic | 0.43 | 23.103 | 0 | 131.859 | -3.324 | 0.032 | -9.03E- 05 |
| luati | Compound | 0.169 | 19.052 | 0 | 63.3 | 0.996 | n.a. | n.a. |
| Eq | Power | 0.304 | 40.996 | 0 | 168.621 | -0.322 | n.a. | n.a. |
| | S | 0.433 | 71.688 | 0 | 3.454 | 15.212 | n.a. | n.a. |
| | Growth | 0.169 | 19.052 | 0 | 4.148 | -0.004 | n.a. | n.a. |
| | Exponential | 0.169 | 19.052 | 0 | 63.3 | -0.004 | n.a. | n.a. |
| | Logistic | 0.169 | 19.052 | 0 | 0.016 | 1.004 | n.a. | n.a. |
| | | | Input resist | ance depo | olarized | | | |
| м | odel Summary | R Square | F(1, 107) | Sig. | Constant | ы | b2 | Ь3 |
| atio | Linear | 0.137 | 16.967 | 0 | 433.025 | -1.823 | n.a. | n.a. |
| Equ | Logarithmic | 0.207 | 27.849 | 0 | 841.182 | -137.704 | n.a. | n.a. |

Supplementary Table 3. Regression analysis of the developmental electrophysiological profile

| | | | | | 1 | | | |
|--------|--------------|----------|----------|-------------|----------|----------|---------------|---------------|
| | Inverse | 0.255 | 36.538 | 0 | 139.753 | 6075.632 | n.a. | n.a. |
| | Quadratic | 0.222 | 15.084 | 0 | 600.932 | -8.918 | 0.042 | n.a. |
| | Cubic | 0.267 | 12.74 | 0 | 788.779 | -19.924 | 0.193 | -0.001 |
| | Compound | 0.147 | 18.438 | 0 | 360.306 | 0.995 | n.a. | n.a. |
| | Power | 0.233 | 32.574 | 0 | 1262.669 | -0.421 | n.a. | n.a. |
| | s | 0.296 | 45.016 | 0 | 4.99 | 18.824 | n.a. | n.a. |
| | Growth | 0.147 | 18.438 | 0 | 5.887 | -0.005 | n.a. | n.a. |
| | Exponential | 0.147 | 18.438 | 0 | 360.306 | -0.005 | n.a. | n.a. |
| | Logistic | 0.147 | 18.438 | 0 | 0.003 | 1.005 | n.a. | n.a. |
| | | | sEPSC | F frequen | cy | | | |
| м | odel Summary | R Square | F(1, 95) | Sig. | Constant | ы | Ь2 | Ь3 |
| | Linear | 0.239 | 29.808 | 0 | 2.376 | 0.016 | n.a. | n.a. |
| | Logarithmic | 0.319 | 44.509 | 0 | -0.949 | 1.151 | n.a. | n.a. |
| | Inverse | 0.362 | 53.888 | 0 | 4.841 | -48.043 | n.a. | n.a. |
| | Quadratic | 0.346 | 24.827 | 0 | 1.157 | 0.07 | 0 | n.a. |
| ° no | Cubic | 0.346 | 16.393 | 0 | 1.066 | 0.075 | 0 | 2.84E- 07 |
| uatic | Compound | 0.194 | 22.849 | 0 | 2.123 | 1.005 | n.a. | n.a. |
| Eq | Power | 0.288 | 38.408 | 0 | 0.655 | 0.402 | n.a. | n.a. |
| | S | 0.372 | 56.276 | 0 | 1.638 | -17.908 | n.a. | n.a. |
| | Growth | 0.194 | 22.849 | 0 | 0.753 | 0.005 | n.a. | n.a. |
| | Exponential | 0.194 | 22.849 | 0 | 2.123 | 0.005 | n.a. | n.a. |
| | Logistic | 0.194 | 22.849 | 0 | 0.471 | 0.995 | n.a. | n.a. |
| | | | F- | l Slope | | | | |
| м | odel Summary | R Square | F(1,110) | Sig. | Constant | Ы | Ь2 | Ь3 |
| | Linear | 0.017 | 1.904 | 0.17 | 0.14 | 7.48E-05 | n.a. | n.a. |
| | Logarithmic | 0.004 | 0.479 | 0.49 | 0.136 | 0.002 | n.a. | n.a. |
| | Inverse | 0 | 0.024 | 0.877 | 0.144 | 0.021 | n.a. | n.a. |
| | Quadratic | 0.049 | 2.81 | 0.065 | 0.152 | 0 | 3.03E- 06 | |
| on " | Cubic | 0.059 | 2.256 | 0.086 | 0.162 | -0.001 | 1.13E- 05 | -3.08E- 08 |
| quat | Compound | 0.019 | 2.154 | 0.145 | 0.137 | 1.001 | n.a. | n.a. |
| E | Power | 0.006 | 0.674 | 0.413 | 0.131 | 0.021 | n.a. | n.a. |
| | s | 0 | 0 | 0.995 | -1.956 | 0.006 | n.a. | n.a. |
| | Growth | 0.019 | 2.154 | 0.145 | -1.989 | 0.001 | n.a. | n.a. |
| | Exponential | 0.019 | 2.154 | 0.145 | 0.137 | 0.001 | n.a. | n.a. |
| | Logistic | 0.019 | 2.154 | 0.145 | 7.305 | 0.999 | n.a. | n.a. |
| | | | Maximu | ım firing r | ate | | | |
| м | odel Summary | R Square | F(1,110) | Sig. | Constant | ы | Ь2 | ЬЗ |
| | Linear | 0.027 | 3.108 | 0.081 | 39.168 | 0.022 | n.a. | n.a. |
| | Logarithmic | 0.023 | 2.538 | 0.114 | 35.798 | 1.247 | n.a. | n.a. |
| tion " | Inverse | 0.011 | I.234 | 0.269 | 41.506 | -34.836 | n.a. | n.a. |
| Equat | Quadratic | 0.028 | 1.555 | 0.216 | 38.914 | 0.033 | -6.48E- 05 | - - : |
| | Cubic | 0.034 | 1.265 | 0.29 | 40.845 | -0.08 | 0.001 | -5.76E- 06 |
| | Compound | 0.029 | 3.342 | 0.07 | 38.616 | 1.001 | n.a. | n.a. |

| | Power | 0.025 | 2.835 | 0.095 | 35.251 | 0.034 | n.a. | n.a. |
|-------|--------------|----------|----------|-----------|----------|----------|--------------|--------------|
| | s | 0.013 | 1.472 | 0.228 | 3.717 | -0.967 | n.a. | n.a. |
| | Growth | 0.029 | 3.342 | 0.07 | 3.654 | 0.001 | n.a. | n.a. |
| | Exponential | 0.029 | 3.342 | 0.07 | 38.616 | 0.001 | n.a. | n.a. |
| | Logistic | 0.029 | 3.342 | 0.07 | 0.026 | 0.999 | n.a. | n.a. |
| | | | AP | Threshold | | | | |
| м | odel Summary | R Square | F(1,110) | Sig. | Constant | ы | Ь2 | Ь3 |
| | Linear | 0.001 | 0.171 | 0.68 | 41.21 | 0.002 | n.a. | n.a. |
| | Logarithmic | 0 | 0.088 | 0.767 | 40.981 | 0.093 | n.a. | n.a. |
| | Inverse | 0 | 0.004 | 0.947 | 41.297 | 0.823 | n.a. | n.a. |
| | Quadratic | 0.002 | 0.244 | 0.784 | 41.544 | -0.012 | 8.47E- 05 | n.a. |
| ona | Cubic | 0.014 | 0.993 | 0.397 | 40.178 | 0.068 | -0.001 | 4.27E- 06 |
| luati | S | 0 | 0.029 | 0.865 | 3.72 | -0.053 | n.a. | n.a. |
| Ec | Growth | 0.002 | 0.338 | 0.562 | 3.714 | 7.71E-05 | n.a. | n.a. |
| | Exponential | 0.002 | 0.338 | 0.562 | 41.014 | 7.71E-05 | n.a. | n.a. |
| | Logistic | 0.002 | 0.338 | 0.562 | 0.024 | Ι | n.a. | n.a. |
| | Compound | 0.002 | 0.338 | 0.562 | 41.014 | I | n.a. | n.a. |
| | Power | 0.001 | 0.262 | 0.609 | 40.564 | 0.004 | n.a. | n.a. |

a) Refers to the equations used in the different models:

Linear: F(postnatal day)= Constant + (b1 * postnatal day).

Logarithmic: F(postnatal day) = Constant + (b1 * ln(postnatal day))

Inverse: F(postnatal day) = Constant + (b1 / postnatal day)

Quadratic: F(postnatal day) = Constant + (b1 * postnatal day) + (b2 * postnatal day **2).

Cubic: F(postnatal day) = Constant + (b1 * postnatal day) + (b2 * postnatal day **2) + (b3 * postnatal day **3)

S-curve: $F(postnatal day) = e^{**}(Constant + (b1/postnatal day))$

Growth: F(postnatal day) = e**(Constant + (b1 * postnatal day))

Exponential: F(postnatal day) = Constant * (e**(b1 * postnatal day))

Logistic: F(postnatal day) = I / (I/u + (Constant * (bI** postnatal day)))

Compound: F(postnatal day) = Constant * (b1** postnatal day)

Power: F(postnatal day) = Constant * (postnatal day **b1)

| | | LIF | ne3a m | anipulation | Mean | + SEM | Statistics | | | | |
|-----|--------------------------|---------|----------------|-------------|----------------|----------------|--|---------------------------|--------------------------|---------------------------|--|
| el | etei | 01 | esu m | | Mean | 1 SEM | Two-way Post-hoc Bonferroni p | | | o values | |
| Par | Param | Age | | Treatment | Genotype | | ANOVA (genotype X treatment) F/b values | LSL-VEH vs. WT- VEH | LSL-VEH vs WT- TAM | LSL-VEH vs LSL- TAM | |
| - | 1 | 1 | | | wт | LSL | | | | | |
| E | | tement | | VEH | 261.54 ± 21.12 | 196.37 ± 10.76 | F(1, 108) = 4.17, | 0.041 | 0.007 | 0.001 | |
| | | | 721 | ТАМ | 264.00 ± 13.34 | 257.50 ± 10.41 | p = 0.044 | 0.041 | 0.000 | | |
| L | Rheobase (pA) reinsta | reinsta | P70 | VEH | 304.12 ± 13.3 | 218.82 ± 15.06 | F(1,67) = 0.12, p = 0.76 | 0.009 | 0.004 | I | |
| | | | | ТАМ | 260.77 ± 23.66 | 210.66 ± 17.24 | | | | | |
| | | 2 | | | WT | Flox | | r | | | |
| s | Jeletion | deletio | P45 | VEH | 260.00 ± 10.10 | 275.56 ± 13.1 | F(1,69) = 0.59, p = 0.49 | | | | |
| | | | | TAM | 280.56 ± 14.78 | 249.42 ± 13.8 | P 0, | | - | - | |
| | 1 | 1 | 1 | 1 | WT | LSL | | | | | |
| н | | | ₩ P21 | VEH | 162.17 ± 17.77 | 304.14 ± 22.77 | F(1,108) = 6.27, p = 0.014 | 0.003 | 0.0001 | 0.001 | |
| | hm) | atemen | | ТАМ | 185.58 ± 22.2 | 220.32 ± 25.53 | | | | | |
| ¥ | ice (Mo | reinsto | P70 | VEH | 187.42 ± 17.18 | 349.00 ± 36.15 | (F(1,67) = 0.04, | 0.005 | 0.004 | I | |
| | ƙesistan | | | ТАМ | 234.20 ± 19.75 | 292.70 ± 24.8 | p = 0.16 | | | | |
| | ut F | | eletion 642 | | WT | Flox | | 1 | | | |
| т | dul | eletion | | VEH | 147.46 ± 12.35 | 121.60 ± 9.16 | F(1,69) = 1.99, | | | | |
| | | Ā | | ТАМ | 118.02 ± 11.55 | 151.13 ± 15.35 | p = 0.026 | | | | |
| | | 1 | 1 | | WT | LSL | | | | | |
| (7 | | | | VEH | 4.70 ± 0.70 | 3.29 ± 0.25 | F(1,107) = 5.16, | 0.014 | 0.3 | 0.2 | |
| | | tement | F 21 | ТАМ | 4.01 ± 0.35 | 4.02 ± 0.24 | | 0.010 | 0.5 | 0.3 | |
| z | cy (Hz) | reinste | P70 | VEH | 4.88 ± 0.38 | 3.08 ± 0.26 | F(1,87) = 0.22, | 0.002 | 0.017 | | |
| | uənbə. | | | ТАМ | 4.46 ± 0.31 | 3.02 ± 0.34 | p = 0.63 | | | | |
| | iC fi | | | | WT | Flox | | | | | |
| С | sEPS | eletion | P45 | VEH | 5.36 ± 0.33 | 5.25 ± 0.43 | F(1,69) = 0.22, | | | | |
| | | de | | ТАМ | 4.60 ± 0.32 | 4.38 ± 0.34 | p = 0.63 | | | | |

Supplementary Table 4. Critical windows for the electrophysiological phenotype – refers to Figure 4