**Figure 1–source data 2: Summary statistics for Figure 1-figure supplement 2**

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| **Fig 1-fig. supplement 2b: NEURON SOMA SIZE** **(P7-9)** | | | | | |  |  |  |  |  | |
|  |  |  | **Nested t-testa** | | |  |  |  |  | **Nested one-way ANOVAa \*** | |
|  | **Control** | ***MTORS2215Y*** | **t, df** | **F, DFn, DFd** | **p-value** | **Control** | ***Depdc5KO*** | ***PtenKO*** | ***Tsc1KO*** | **F, DFn, DFd** | **p-value** |
| **Mean ± SD** | 76.2 ± 1.7 | 144.4 ±2.9 | 13.22, 4 | 174.8, 1, 4 | 0.0002 | 75.9 ± 1.5 | 100.1 ± 2.1 | 151.7 ± 2.8 | 116.7 ± 2.1 | 26.87, 3, 18 | <0.0001 |
| **No. of animals** | 3 | 3 |  |  |  | 4 | 4 | 6 | 8 |  |  |
| **No. cells/ animal** | 30 | 30 |  |  |  | 30 | 30 | 30 | 30 |  |  |
| **Total cells** | 90 | 90 |  |  |  | 120 | 120 | 180 | 240 |  |  |

aThe nested t-test and ANOVA fit a mixed-effects model wherein the main factor is treated as a fixed factor and the nested factor is treated as a random factor.

bPost-hoc analyses were performed using Holm-Šídák multiple comparison test. Significant post-hoc results (p<0.05) are denoted with symbols (\*) on the graphs, with the number of symbols 1-4 denoting the significant levels p<0.05, <0.01, <0.001, and <0.0001, respectively.