**Table S1.** Results of linear mixed models investigating the effects of sex and genotype (line) on body mass, pelage conductance, and extremity length in house mice.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Trait | Factor | χ2 | DF | *P*-value | Effect size (*ω*2) |
| Body Mass (g) |  |  |  |  |  |
|  | Line | 28.54 | 1 | < 0.001 | 0.48 |
|  | Sex | 15.29 | 1 | <0.001 | 0.31 |
| Relative Pelage Conductance  (W-1m-2 oC-1/g) |  |  |  |  |  |
|  | Line | 34.59 | 1 | < 0.001 | 0.47 |
|  | Sex | 1.72 | 1 | 0.19 | 0.02 |
| Relative Tail Length (mm/g) |  |  |  |  |  |
|  | Line | 85.97 | 1 | < 0.001 | 0.74 |
|  | Sex | 12.12 | 1 | < 0.001 | 0.26 |
| Relative Ear Length (mm/g) |  |  |  |  |  |
|  | Line | 66.67 | 1 | < 0.001 | 0.73 |
|  | Sex | 18.55 | 1 | < 0.001 | 0.35 |