Additional file 1: Figure S1. A graphical illustration of the genomic structure around exon 10 on both alleles in the murine tau gene locus, tau mRNA expression and tau protein synthesis in wild-type (E10+/+, upper), E10+/- (middle) and E10-/- mice (lower). A part of the tau locus with exons 9, 11 (yellow), 10 (orange, dotted lines) and genetic deletion (▶) is shown. The four microtubule domains (R1-R4) in tau protein are encoded by exons 9-12 in tau. Alternative splicing of tau in adult wild-type mouse brain results in 4R-tau protein being synthesized by both alleles (upper). Ablation of exon 10 on one of the two alleles in tau (E10+/- mice) should theoretically lead to a 1:1 balanced ratio of 3R- and 4R-tau protein synthesis (middle). This mixture of 3R-/4R-tau protein synthesis is found in adult human brain. In contrast, lack of exon 10 on both alleles in tau (E10-/-) should results in 3R-tau protein synthesis by both alleles (lower).
Additional file 1: Figure 2. Sensorimotor functions of wild-type (E10+/+), E10+/− and E10−/− mice. 13-17 months-old mice devoid of tau exon 10 (E10−/−) were also impaired in rotarod when maximum speed was recorded compared to E10+/+ (p<0.05) and E10+/− mice (p<0.01) (E10+/+, n=18; E10+/−, n=16; E10−/−; n=15). *p<0.05 and **p<0.01

Additional file 1: Figure 3. Exploratory behaviours of wild-type E10(+/+), E10+/− and E10−/− mice. At 12-16 months of age, E10+/− and E10−/− mice travelled a similar distance in the open field apparatus as wild-type mice.
**Additional file 1: Figure 4.** No macroscopic differences between brains of wild-type (E10+/+) and E10+/- and E10-/- mice.