

Huntington's Disease



zQ175DN-KI Transgenic Mouse Model

zQ175DN-KI mice (JAX# 029928) have the mouse Htt exon 1 replaced by the human HTT exon 1 sequence with ~180-220 CAG repeats. Furthermore, the neo cassette of these KI mice was deleted (DN).

Figure 1: Quantification of mHTT by sandwich immunosorbent assay using the MesoScale Discovery platform in the isocortex of 5.5 months old mixed sex zQ175DN KI and WT mice. WT: n = 3; zQ175DN KI: n = 12. Mean + SEM. Unpaired t-test.

Figure 2:
Body weight of 5.5 months old mixed sex zQ175DN KI and WT mice. n = 12 per group. Mean ± SEM; Repeated Measures Two Way ANOVA with Sidak's multiple comparison post hoc test; *p<0.05. Analysis of body weight progression was significant by Tukey's multiple comparison post hoc test (not labeled).

mHHT isocortex

Figure 1:

4000
2000
WT zQ175DN KI

Body Weight

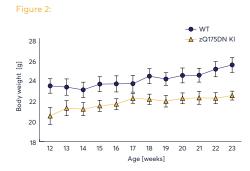


Figure 3:
Nest building of 5.5
months old mixed sex
zQ175DN KI and WT
mice. Score of 1 representing a poor nest and
score of 5 representing
a perfect nest. n = 12
per group. Mean + SEM;
Mann-Whitney U-test.
***p<0.001.

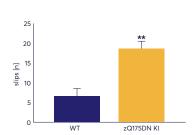
Figure 4:
Beam Walk test of 5.5.
months old mixed sex
zQ175DN KI and WT mice.
Number of slips on a 10
mm square beam. n = 12
per group. Mean + SEM;
unpaired t-test. **p<0.01.

Nest Building

Figure 3:

5 4 E 3 T WT 20175DN KI

Slips – 10 mm square beam Figure 4:



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