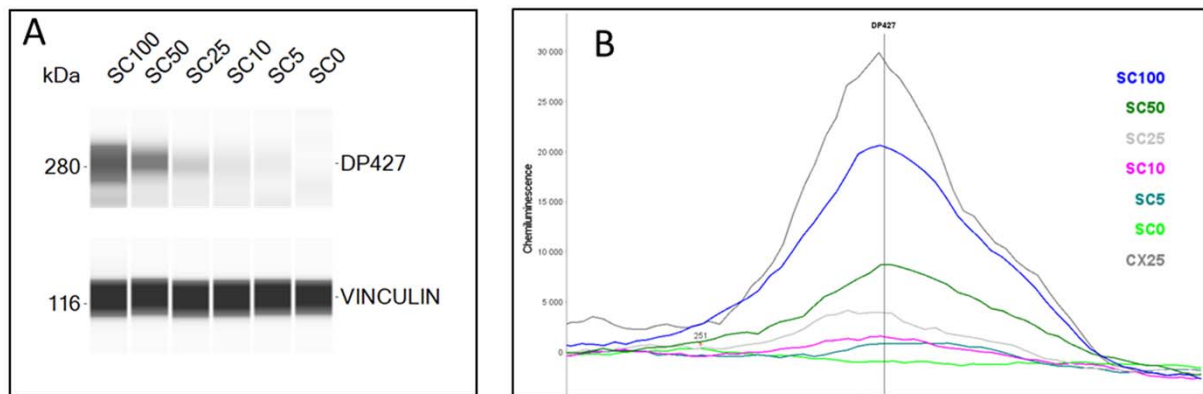


**Supplementary figure S1. In vivo [11C]flumazenil PET brain imaging.** Binding potential ( $BP_{ND}$ ) to  $GABA_A$  receptors in cortex, thalamus, cerebellum, brain stem, hypothalamus, striatum and hippocampus, estimated using the striatum as a reference region. Data are shown as mean  $\pm$  S.D. Difference in  $BP_{ND}$  between wild-type and *mdx* mice was not significant ( $p > 0.05$ ).



**Supplementary figure S2. Detection of Dp427 in spinal cord.** Virtual blot (A) and electropherogram (B) representing the Dp427 signal obtained in lysates from spinal cord containing 100% (SC100, blue), 50% (SC50, dark green), 25% (SC25, light grey), 10% (SC10, pink), 5% (SC5, turquoise) or 0% (SC0, light green) of WT dystrophin. In B, expression levels are compared to the levels obtained in a cortex sample containing 25% of wt dystrophin (Cx25, dark grey curve).