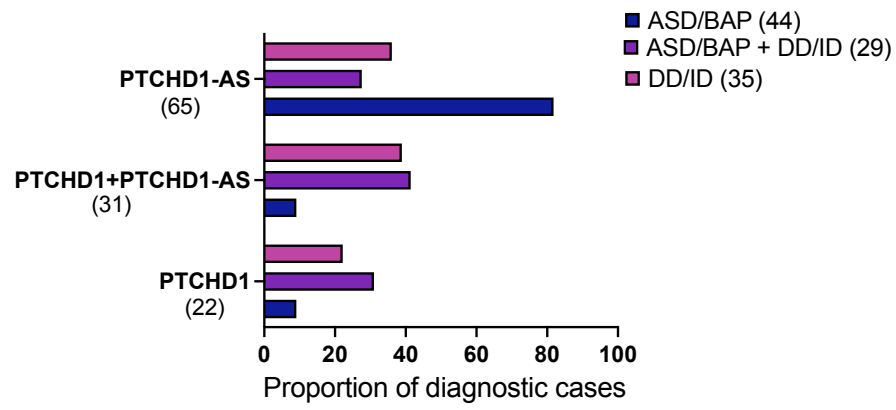
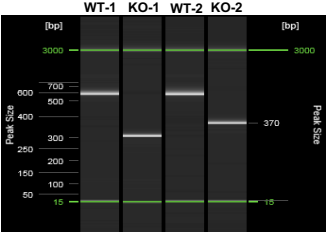
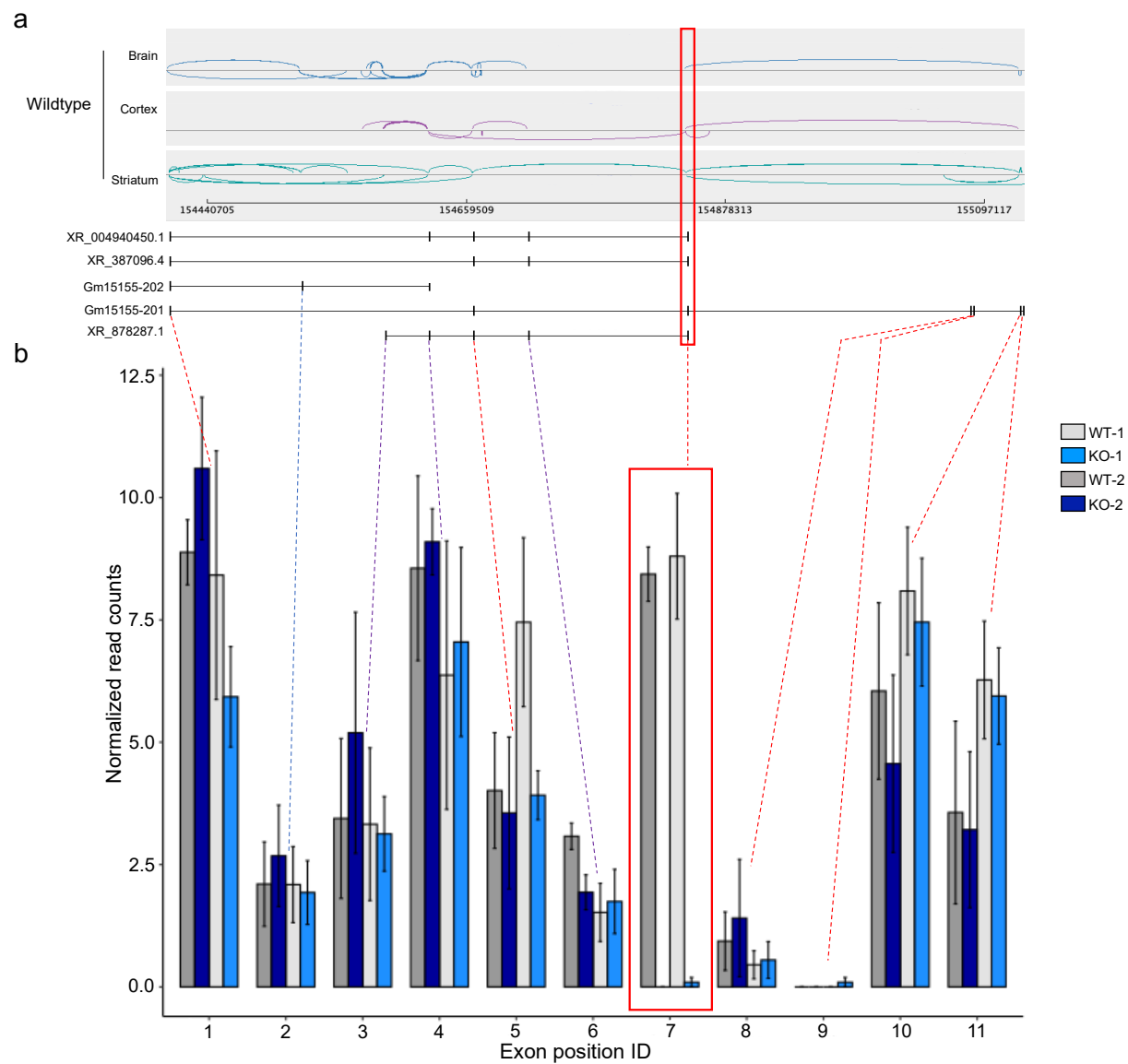




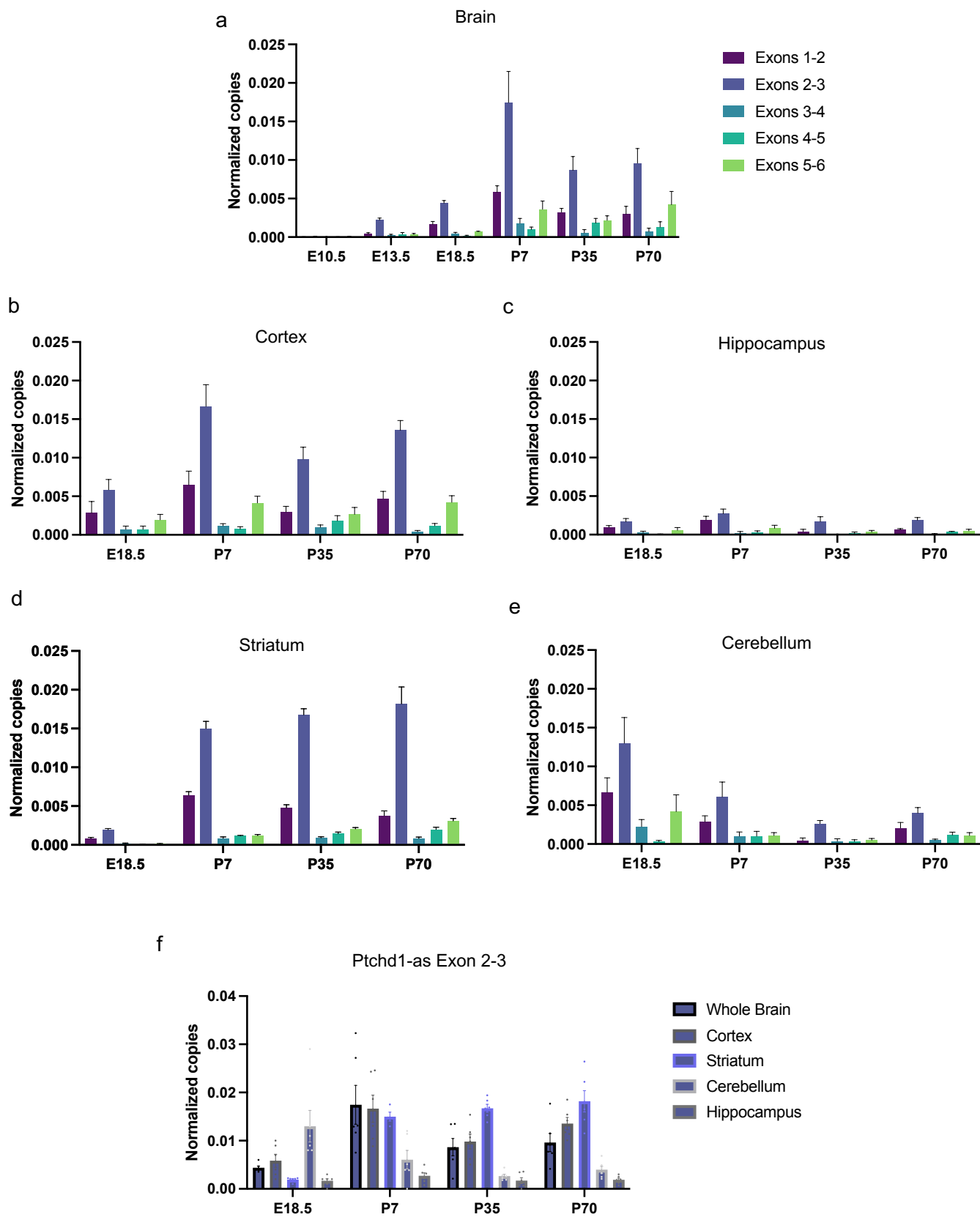
Extended Data Figure 1



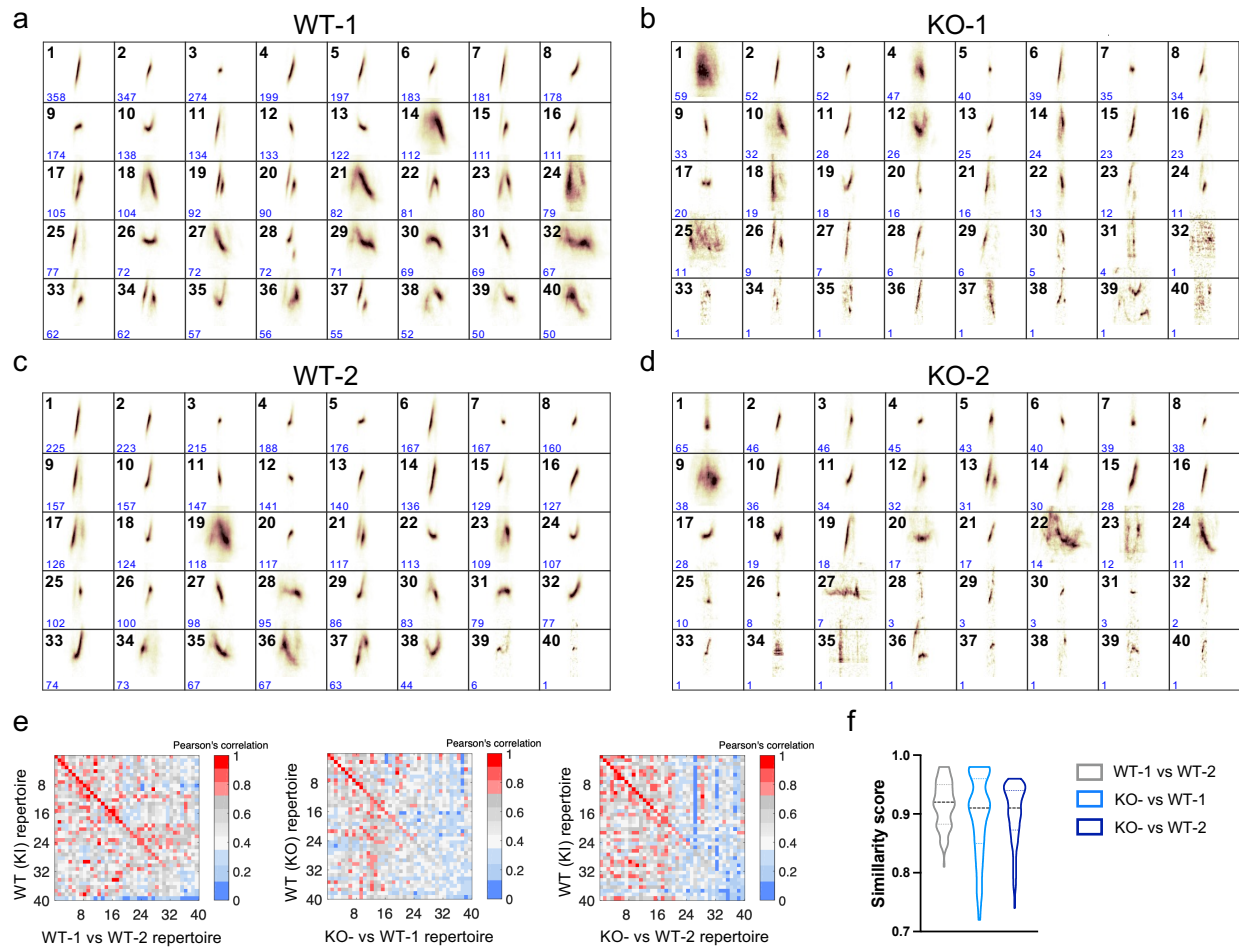
Genotyping



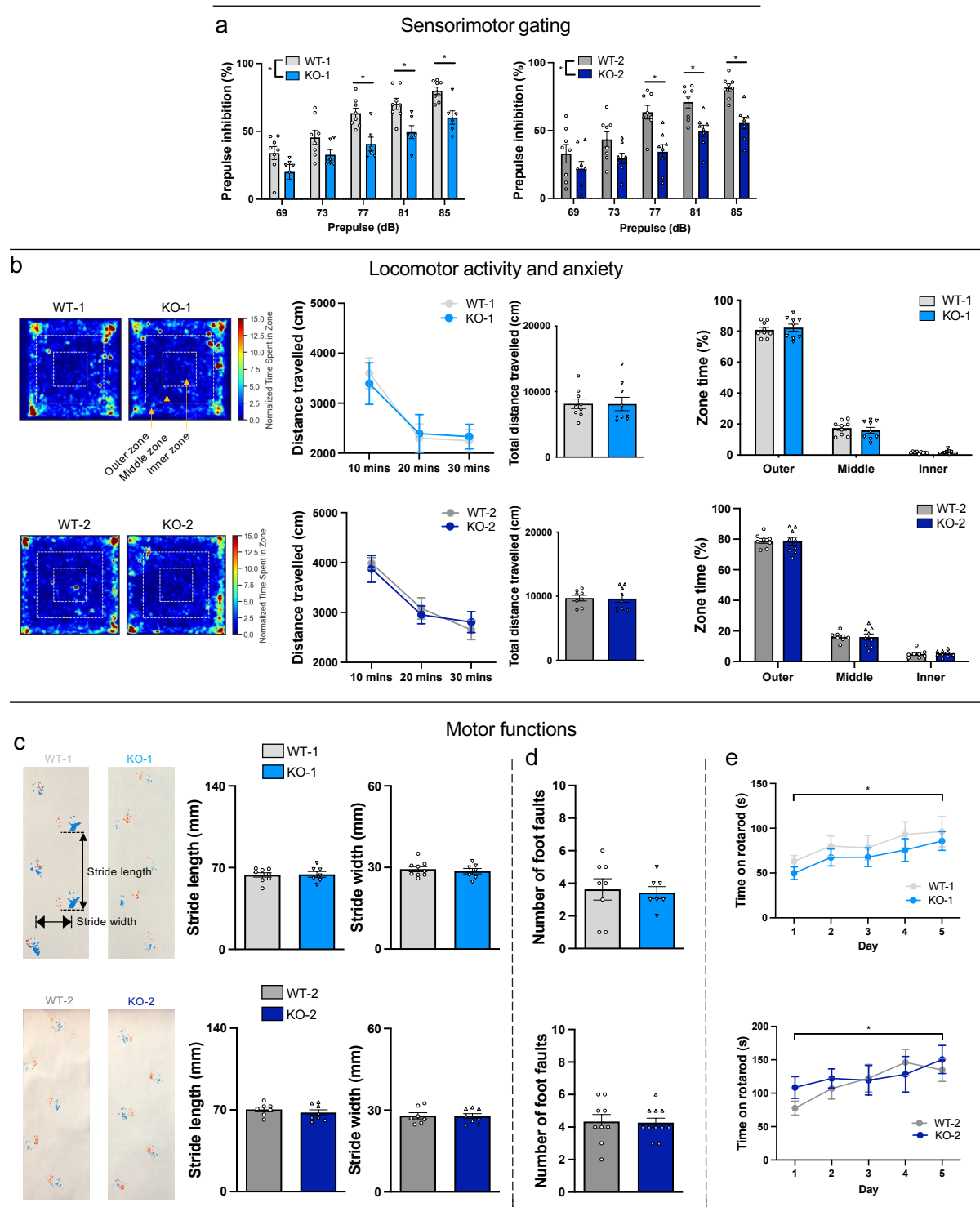
Extended Data Figure 3



Extended Data Figure 4



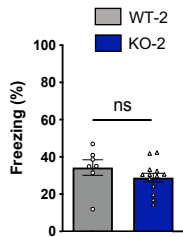
Extended Data Figure 5



Extended Data Figure 6

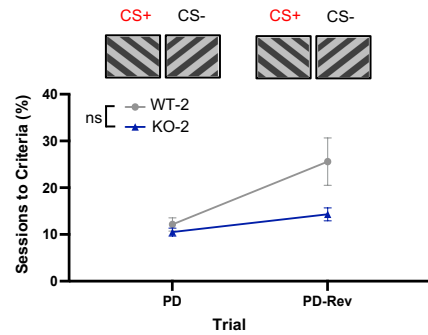
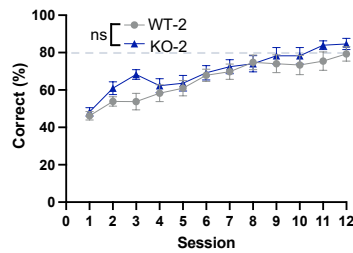
Learning and memory

a Fear conditioning



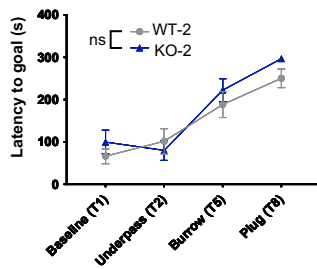
b Pairwise discrimination task

PD acquisition

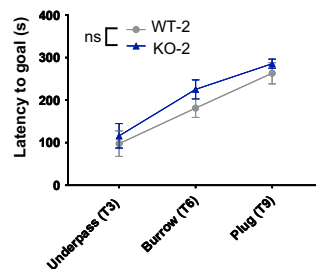


c Puzzle box task

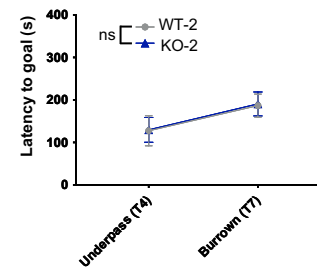
Problem Solving



Short term memory

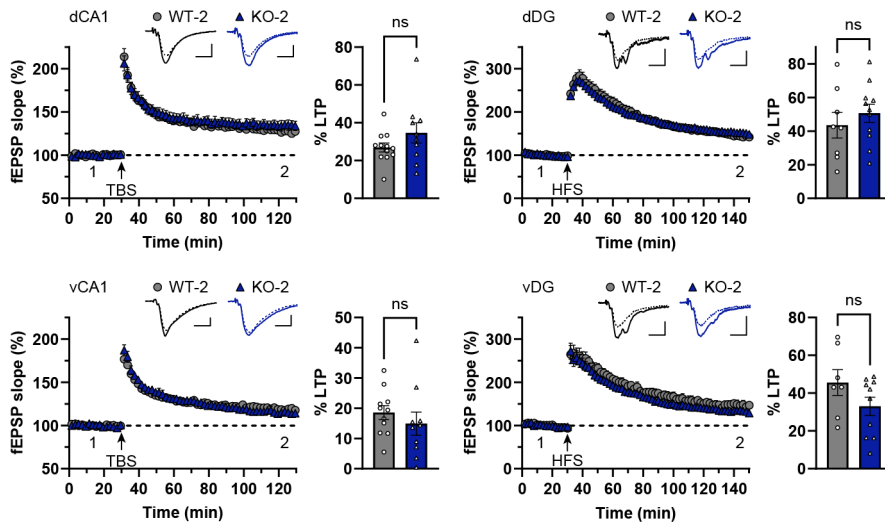


Long term memory

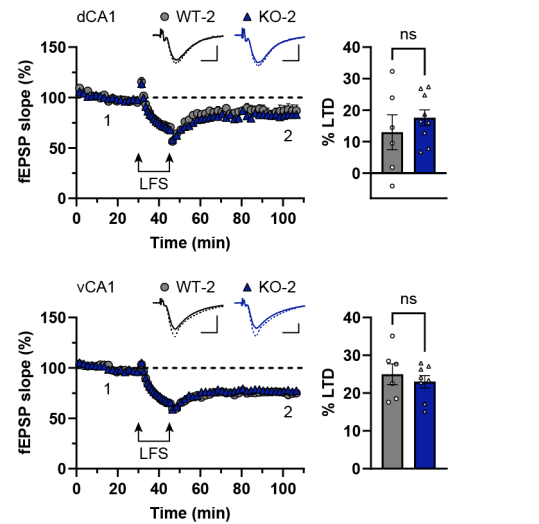


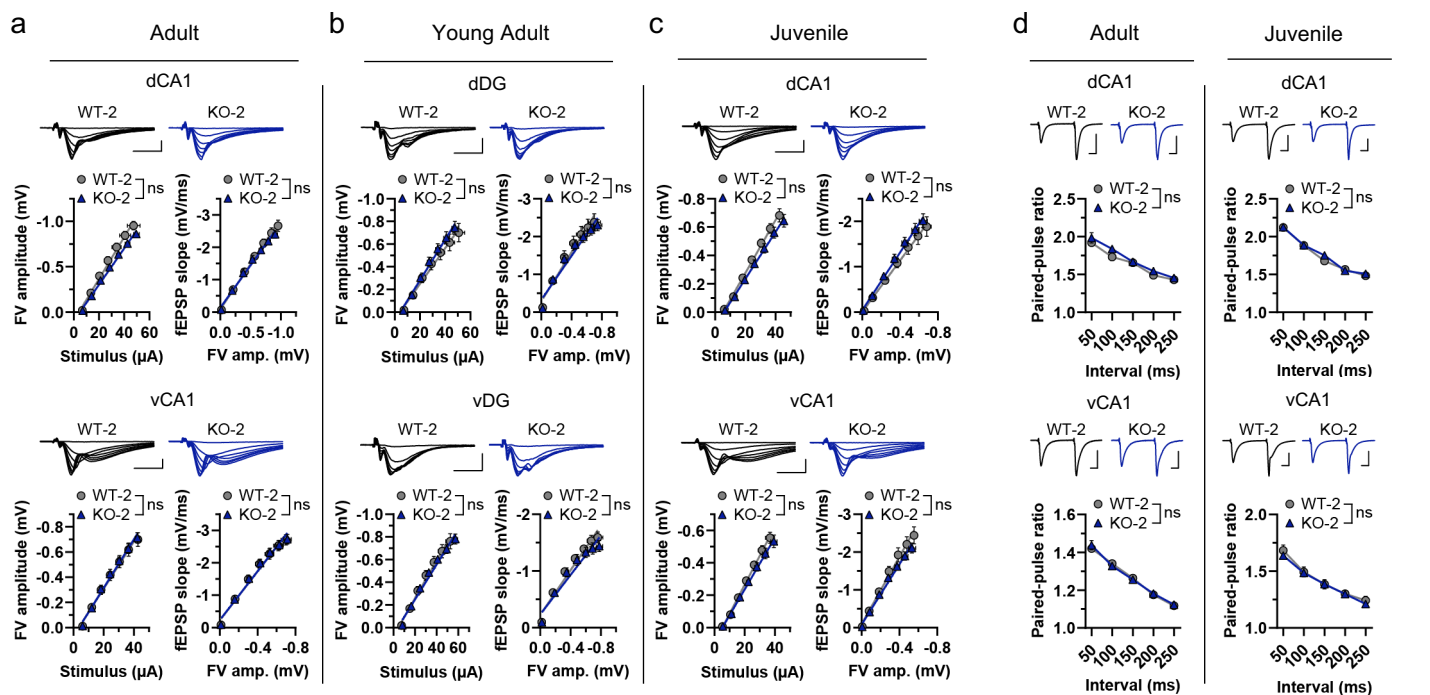
Synaptic plasticity

d Long-term potentiation

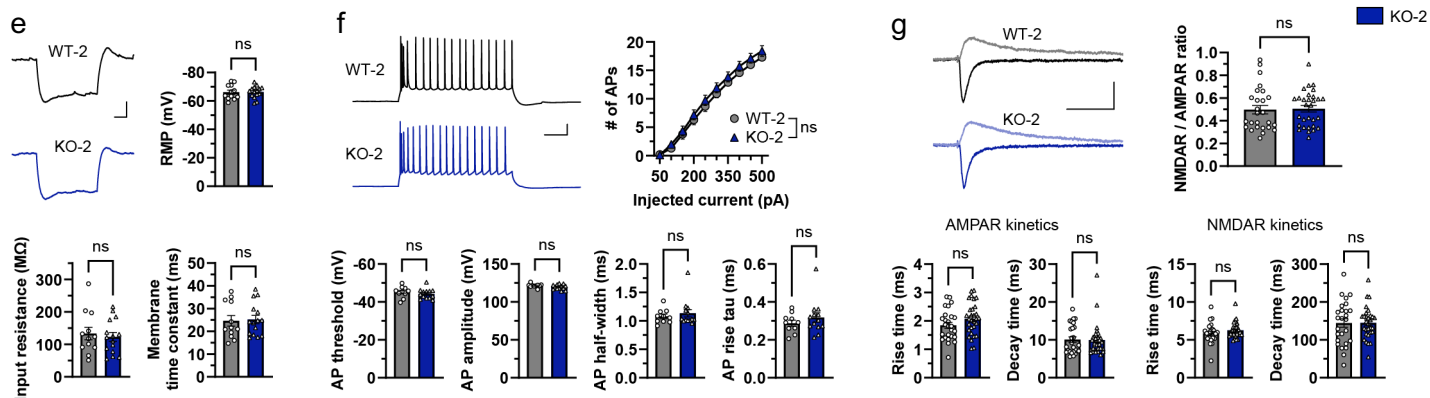


e Long-term depression

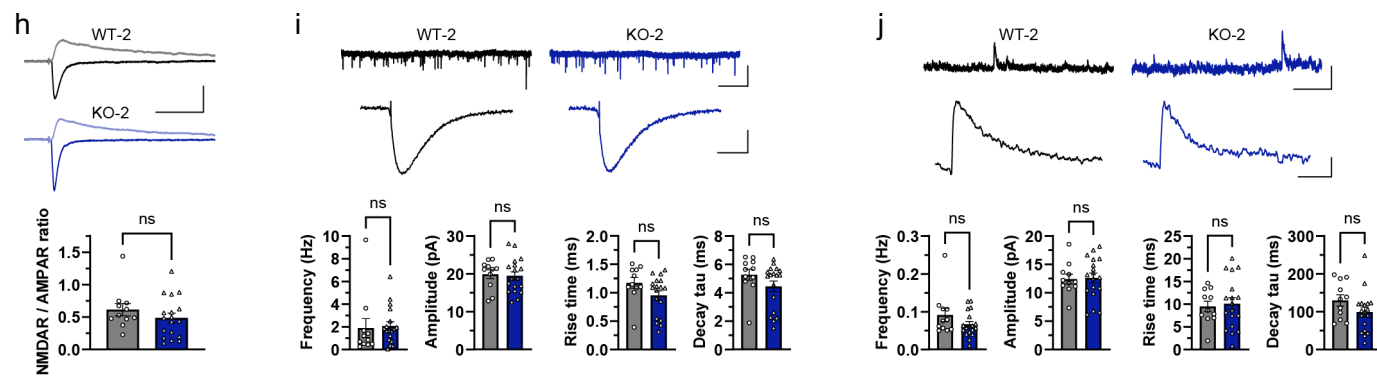




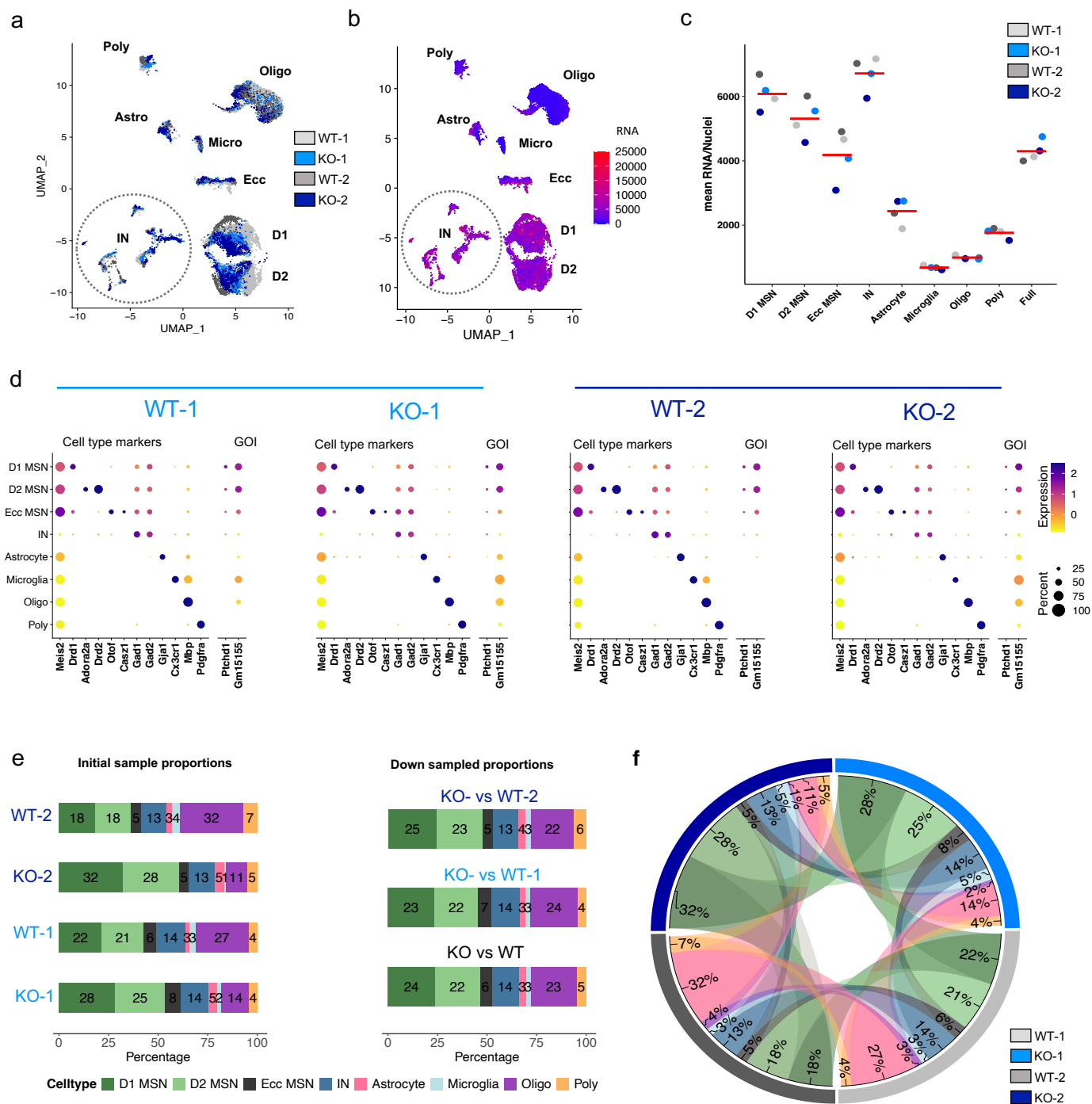
mPFC intrinsic and synaptic properties



Striatal synaptic properties



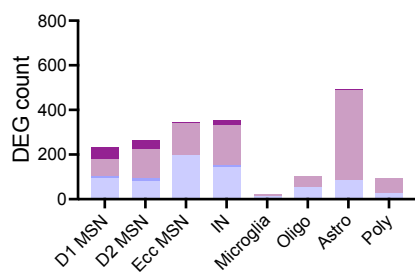
Extended Data Figure 8



Extended Data Figure 9

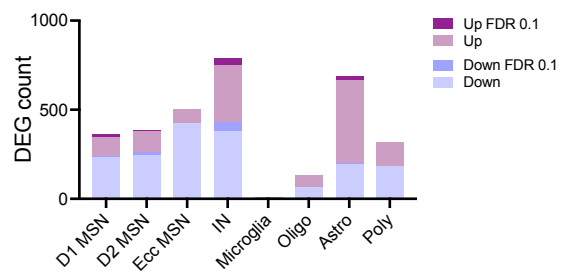
a

KO-1

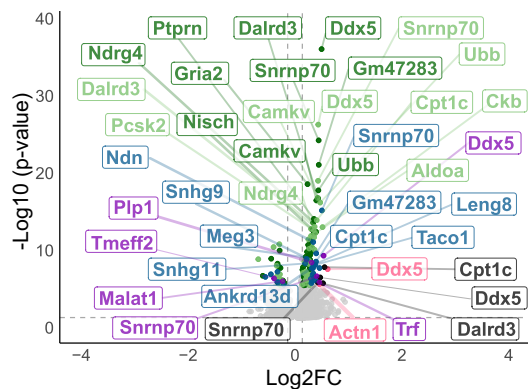


c

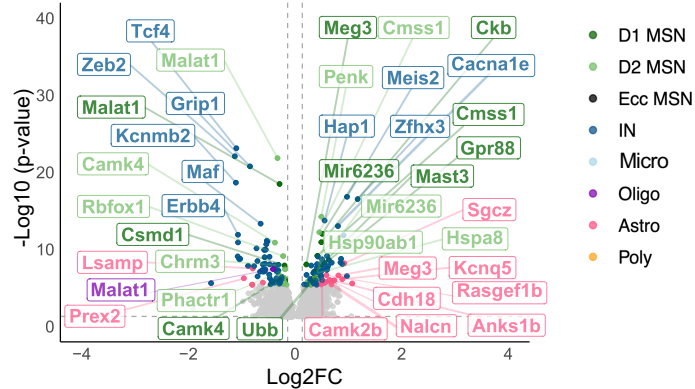
KO-2

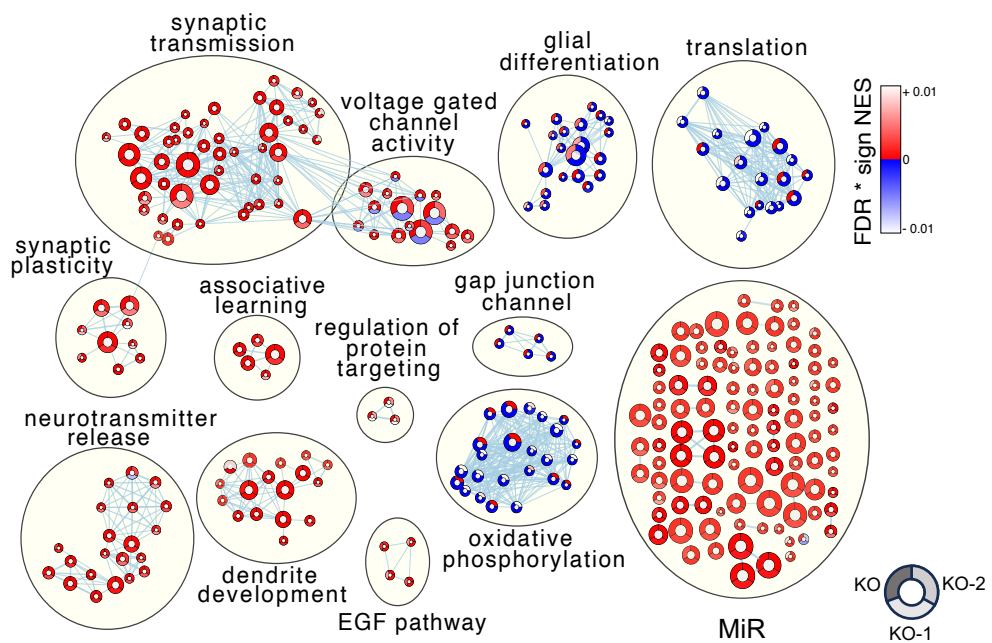


b

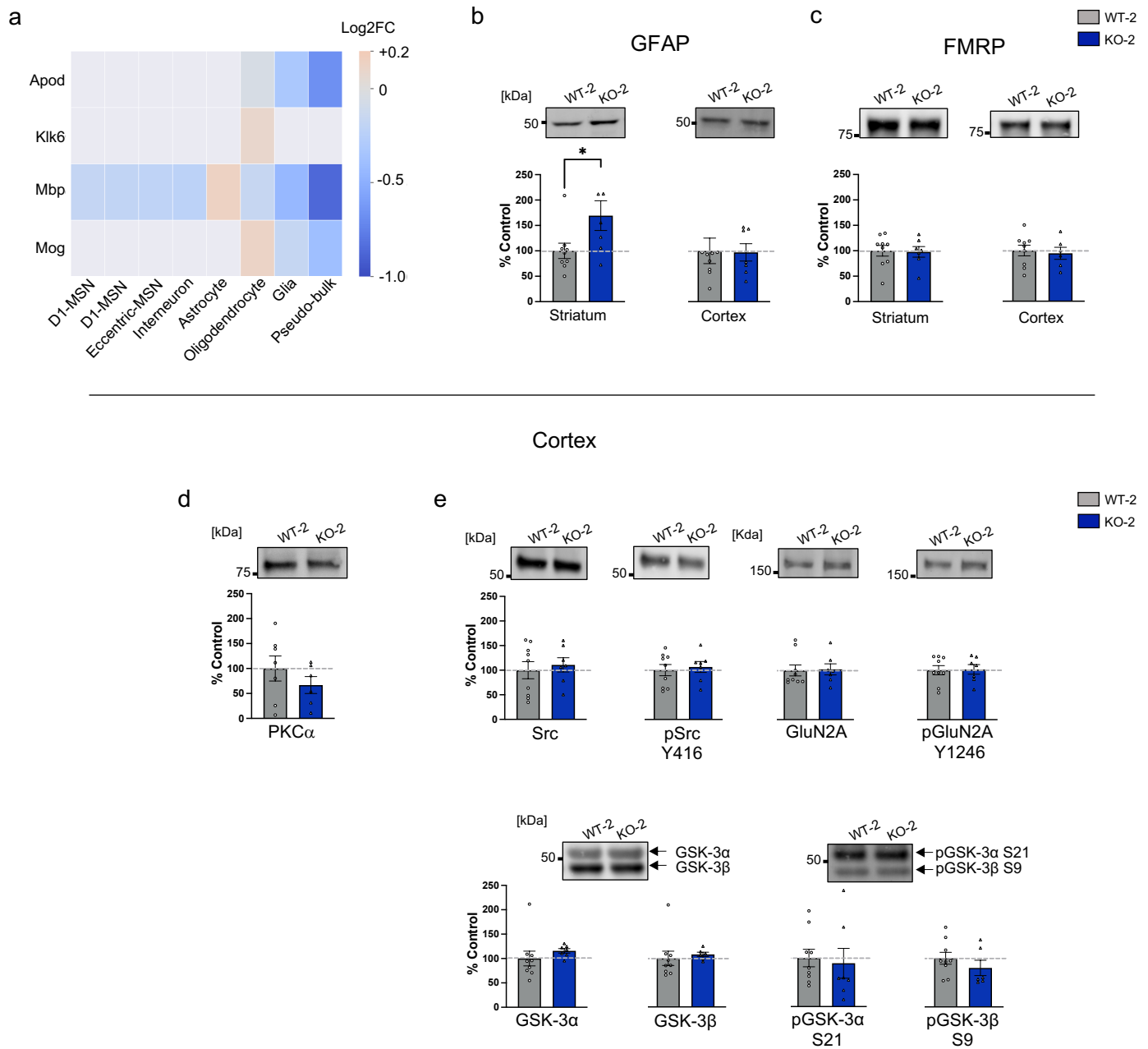


d





Extended Data Figure 11



Extended Data Figure 12