



**Figure S1.** An exemplary gene size and density comparison at *NRXN1* ortholog loci. For each species, a *NRXN1* ortholog (black; *NRXN1* in *Homo sapiens*, *Nrxn1* in *Mus musculus*, and *nrx-1* in *Drosophila melanogaster* and *Caenorhabditis elegans*) is shown centrally, while other genes (random non-black colors) are jittered vertically while maintaining their linear position in the genome. Each locus is shown in the context of a 10 million bp window, with one additional inset for *C. elegans* showing a 200 kb window surrounding *nrx-1*.