**Figure S1:** qRT-PCR for PIG-A transcript levels in the RNAi knockdown.

**Table S1:** RNAseq data for neuron- and glia-specific knockdown of PIG-A.

**Table S2:** GO analyses of RNAseq results.

**Table S3:** Genes that are up or downregulated in neuron, glia, or both.

**Video S1:** Video of *PIG-A+/-*seizures

**Video S2:** Video of control *PIG-A+/+*flies with no seizures

**Video S3:** Video of glia knockdown seizures

**Video S4:** Video of control flies (for glia knockdown) with no seizures