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Supplemental Data

Sensorineural Deafness and Seizures in Mice

Lacking Vesicular Glutamate Transporter 3

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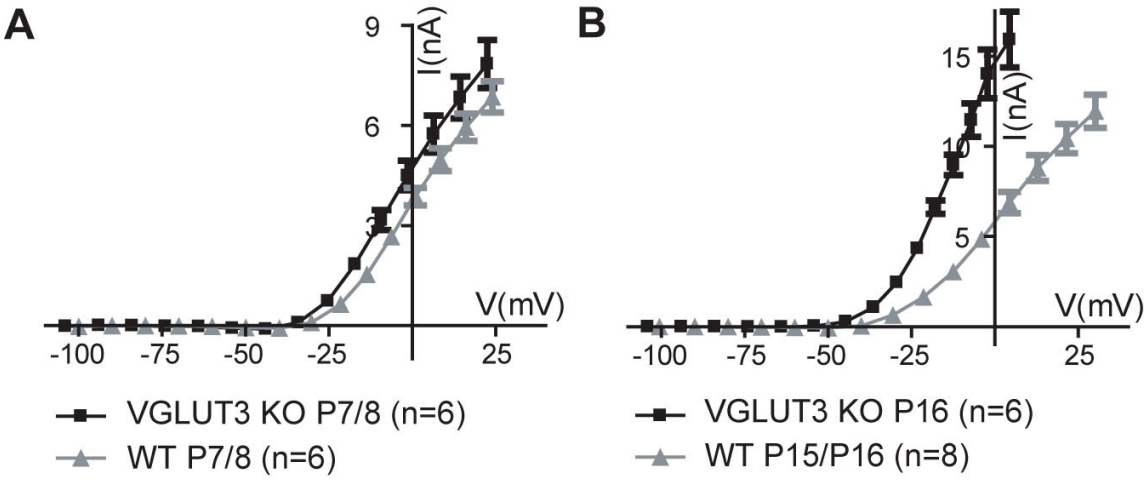

Figure S1. IHC Potassium Conductances in VGLUT3 KO and WT Mice

Current-voltage relationships for IHCs of VGLUT3 KO and WT mice at P7/8 (before onset of hearing) **(A)** and P16 (after hearing onset) **(B)**. Current amplitudes were measured at the end of 100 ms voltage steps, and the values indicate mean ± S.E. For both VGLUT3 KO and WT mice, current amplitudes increase significantly with age ($p<0.01$). At P15/16, however, potassium current amplitudes in VGLUT3 KO mice were significantly larger than in WT mice ($p<0.01$). Voltages were corrected for the error across the remaining uncompensated series resistance (<5 MΩ) and currents plotted against the mean voltage reached for each voltage step. For statistical analysis, data were binned according to actual voltage reached (bin width = 4 mV). Error bars indicate the standard error of the mean.