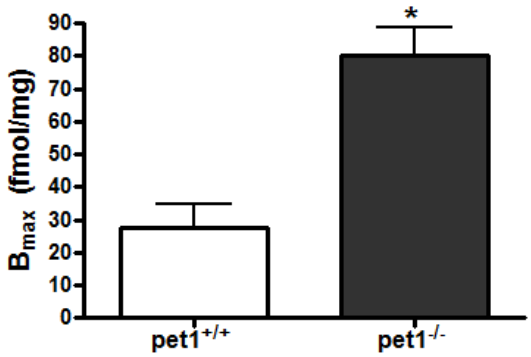
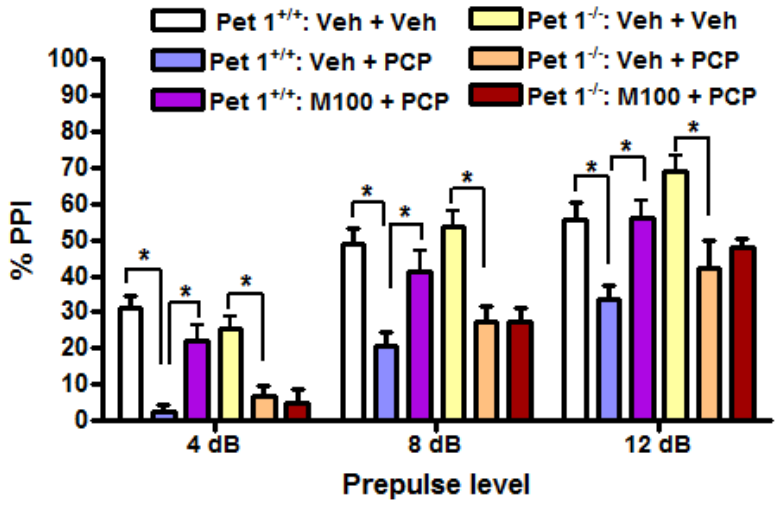
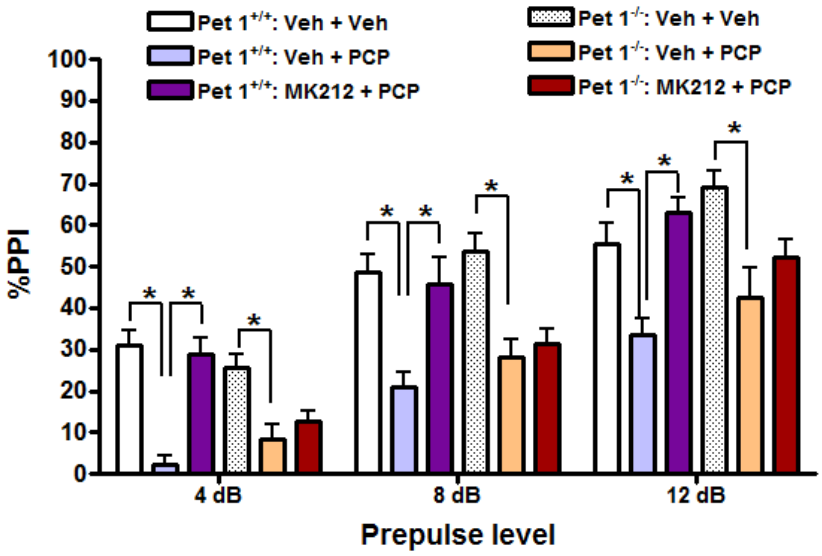


Supplementary Figure 1. 5-HT_{2C} receptors in hippocampus of *pet1*$^{-/-}$ mice are upregulated. B_{max} estimates were obtained by saturation binding with membrane preparations and [^{3}H]-mesulergine + 100 nM spiperone. Nonspecific binding was determined by incubating the reactions with 10 μM ritanserin, and data are presented as mean B_{max} ± SEM (N=6/genotype). *$p<0.05$, unpaired T test.



Supplementary Figure 2. Normalization of sensory motor gating deficit by 5-HT_{2A} selective antagonist M100907 is lost in *pet1*$^{-/-}$ mice. Effect of M100907 (M100, 0.5 mg/kg) on PCP (7.0 mg/kg)-induced disruption of pre-pulse inhibition (PPI) was measured. In *pet1*$^{+/+}$ mice, M100907 pretreatment completely normalized disruption of PPI by PCP at all prepulse levels, while it had no effect in *pet1*$^{-/-}$ mice (N=8/group).).*p<0.05, two way ANOVA followed by Bonferroni post tests for multiple comparisons.



Supplementary Figure 3. Normalization of sensory motor gating deficit by 5-HT_{2C} selective antagonist MK212 is lost in *pet1*$^{-/-}$ mice. Effect of MK212 (1.0 mg/kg) on PCP (7.0 mg/kg)-induced disruption of pre-pulse inhibition (PPI) was measured. In *pet1*$^{+/+}$ mice, MK212 pretreatment completely normalized disruption of PPI by PCP at all prepulse levels, while it had no effect in *pet1*$^{-/-}$ mice (N=8/group).).*$p<0.05$, two way ANOVA followed by Bonferroni post tests for multiple comparisons.