



Figure S3. Raw PPI analysis of each prepulse on %PPI.

Two-way ANOVA for time and treatment group were run for pp69, pp73, and pp81.

Pp69 showed no significant influences of time ($F_{5,370}=0.8552$ $p=0.5115$) or treatment ($F_{3,370}=0.5859$ $p=0.6262$) and there was no significant interaction between the two variables ($F_{15,370}=1.150$ $p=0.3098$) for this prepulse.

Pp73 showed a significant influence of time ($F_{5,370}=4.091$ $p=0.0013$) but NSD for treatment or any interaction was seen, and post-hoc analysis (Bonferroni corrected) revealed no differences. Pp81 showed a significant influence of time ($F_{5,370}=25.63$ $p<0.0001$) but NSD for treatment or any interaction was seen. Post-hoc analysis (Bonferroni corrected) revealed NSD for any other comparisons.

One-way ANOVA was used to analyze within group, between time points for each prepulse.

Pp69 showed NSD for any treatment group (sham: $F_{5,108}=1.446$ $p=0.2139$; -shRNA: $F_{5,84}=0.7478$ $p=0.5900$; V2LMM: $F_{5,126}=0.5833$ $p=0.7172$; V3LMM: $F_{5,126}=1.185$ $p=0.3206$).

Pp73 showed NSD for any treatment group (sham: $F_{5,108}=1.697$ $p=0.1415$; -shRNA: $F_{5,84}=0.4066$ $p=0.8429$; V2LMM: $F_{5,126}=1.365$ $p=0.2420$; V3LMM: $F_{5,126}=1.768$ $p=0.1240$).

Pp81 showed differences in all four treatment groups. Sham: $F_{5,108}=3.409$ $p=0.0067$, with post hoc (Tukey's HSD) showing significant difference in PPI between pre-op and week 6 ($p<0.01$). -shRNA: $F_{5,84}=3.585$ $p=0.0055$ with post hoc showing pre-op vs. week 6 ($p<0.05$). V2LMM: $F_{5,126}=4.842$ $p=0.0004$. post hoc pre-op vs. week 5 ($p<0.001$), pre-op vs. week 6 ($p<0.05$), week 3 vs. week 5 ($p<0.05$). V3LMM: $F_{5,126}=3.928$ $p=0.0024$. post hoc pre-op vs. week 5 ($p<0.05$), pre-op vs. week 6 ($p<0.001$).

Numbers per group: sham: 20. -shRNA: 15. V2LMM: 20. V3LMM: 22