**Supplementary Figure 1.** Detection of Map-2-positive cells in the primary cultures of striatal neurons on the 7th day of *in vitro* culture. The red fluorescence represents Map-2 protein expression, DAPI (blue) was used for nuclear staining. *Scale bar*=30 μm.

**Supplementary Figure 2.** The appropriate lentivirus concentration used in the primary cultures of striatal neurons. (A) Primary cultures of striatal neurons infected with the negative control lentivirus (hU6-MCS-Ubiquitin-EFGP-IRES-puromycin) at MOI:1, MOI:3, MOI:5, and MOI:10 for 72 h. The green fluorescence represents GFP protein expression, DAPI (blue) was used for nuclear staining. *Scale bar*=100 μm. (B) The lentivirus infection rate in striatal neurons. Data were analyzed by one-way ANOVA, followed by a Tukey multiple comparisons posttest (n=3). *** *p* < 0.001 vs. CTL group.