Supplementary Meterials

Feedback regulation between the ubiquitin proteasome system and protein kinase A worsens Huntington's disease

Jiun-Tsai Lin, Wei-Cheng Chang, Hui-Mei Chen, Hsing-Lin Lai, Chih-Yeh Chen, Mi-Hua Tao and Yijuang Chern*

Figure S1

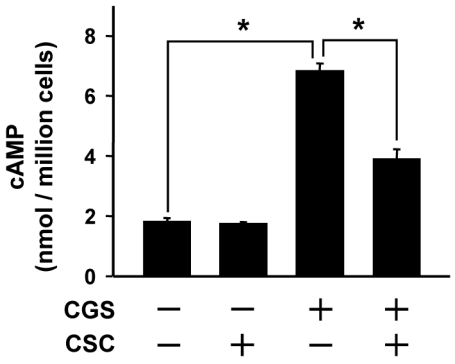

Fig. S1. **Treating ST14A cells with CGS elevated the cellular cAMP level.** ST14A cells were treated with the indicated reagent(s) (CGS, 10 μM; CSC, 20 μM) and a phosphodiesterase inhibitor (isobutylmethylxanthine (IBMX) 0.5 mM) for 20 min at room temperature, and then a cAMP assay was performed as described in "Methods". Data points represent the mean±SEM of three independent experiments.

Figure S2

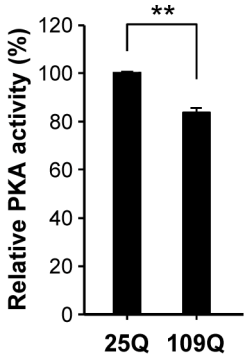

Fig. S2. **Mutant Huntingtin (Htt) downregulated protein kinase A (PKA) activity in ST14A cells.** ST14A cells were transfected with pcDNA3-(Htt-$(Q)_{25}$-hrGFP) or pcDNA3-(Htt-$(Q)_{109}$-hrGFP) for 72 h. The lysates collected from the indicated condition were used to determine the PKA activity. Data points represent the mean±SEM of three independent experiments.

Figure S3

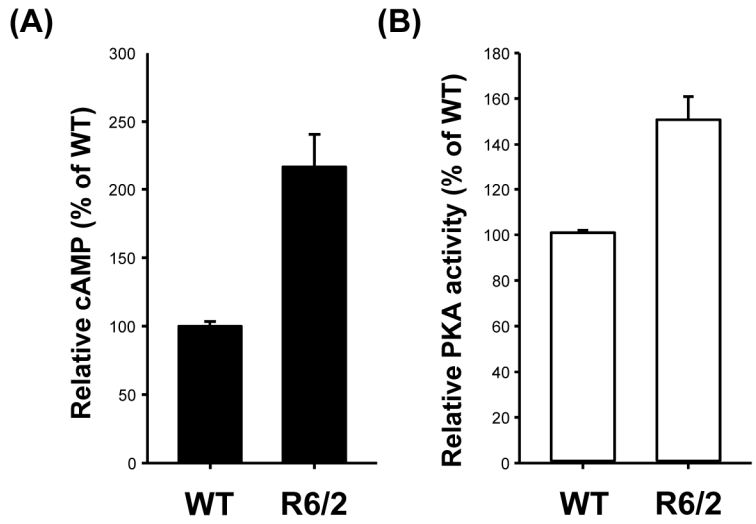

Fig. S3. **Mutant Huntingtin (Htt) increased cellular cAMP production and PKA activity in striatum of 7-week-old R6/2 mice.** The cAMP amount (A) and PKA activity (B) of the striatum of 7-week-old R6/2 mice and littermate controls were assessed as described in "Methods". Data are presented as the mean ± SEM in each group.