

Supplemental information:

Figure S1. Schematic representation of the injection sites in the basolateral amygdala (BLA) (A), central amygdala (CeA) (B), nucleus accumbens (NAc) shell (C), and NAc core (D). Numbers beside the sections indicate anteroposterior distance from the bregma in millimetres. Data are reconstructed from Paxinos and Watson 2005 (Paxinos & Watson, 2005).

Figure S2. DNA methylation of *Sox10* at 1 h after retrieval. (A) The DNA methylation level of *Sox10* as evaluated by reduced-representation bisulphite sequencing. Differentially methylated region (DMR) located in the promoter region of *Sox10* was identified (difference in DNA methylation level > 0.2 , $p = 0.010233$, CpG number ≥ 5). (B) The DNA methylation level of *Sox10* evaluated by bisulphite PCR validation ($p > 0.05$, Student's t-test, two samples, each consisting of the pooled tissues of six rats).

Figure S3. DNA methylation of *Pik3r1* at 1 h after memory retrieval. (A) The DNA methylation level of *Pik3r1* evaluated by reduced-representation bisulphite sequencing. Differentially methylated region (DMR) located in the promoter region of *Pik3r1* was identified (difference in DNA methylation level > 0.2 , $p =$

0.010744, CpG number ≥ 5). (B) The DNA methylation level of *Pik3r1* evaluated by bisulphite PCR validation ($p > 0.05$, Student's t-test, two samples, each consisting of the pooled tissues of six rats).

Paxinos, G., & Watson, C. (2005). *The rat brain in stereotaxic coordinates*. 5 ed. *Amsterdam: Elsevier Academic Press*.