

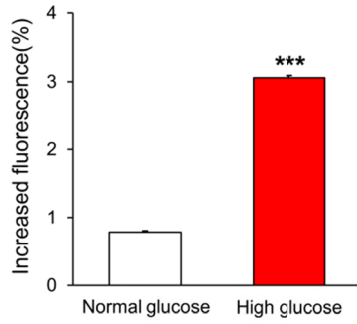


Fig. S1 High glucose induces reactive oxygen species (ROS) in cultured neurons. Neonatal hippocampal neurons were cultured with normal glucose (25 mmol/L) or high glucose (50 mmol/L) for 24 h. The high glucose significantly enhances ROS production as assessed by a ROS assay kit (Beyotime, Nantong, China).

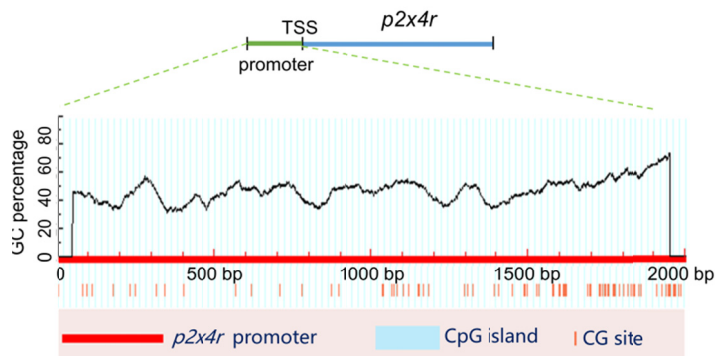


Fig. S2 Absence of CpG islands in the *p2x4r* gene promoter. The promoter sequence of *p2x4r* gene is 2000 bp before the transcriptional start site (TSS) in the NCBI Genbank database. There are no CpG islands in the *p2x4r* gene promoter according to online prediction by Methprimer software.