Figure S4  Localizations of synaptic components in RIA neuron. (A) The localization of UNC-101::GFP in RIA neuron. As described in Margeta et al. (2009), UNC-101::GFP was exclusively localized to the presynaptic region in wild-type animals. It
was mislocalized to the proximal region of the process in ttx-7(nj50) mutants. (B) The localization of SNB-1::VENUS in unc-11(e47);unc-104(e1265) double mutants. The fluorescence of SNB-1::VENUS was quite dim but observed in the entire process of RIA neuron. Scale bar, 5µm. (C) The representative image of the localization of SNB-1::VENUS in ttx-7(nj50) gqIs25[rab-3p::ppk-1] mutants and the localization indices of SNB-1::VENUS in each genotype. The overexpression of ppk-1 gene did not suppress the localization defect in ttx-7 mutants. Steel-Dwass multiple comparison test was performed (n ≥ 8 animals). Scale bar, 5µm. (D) RIA-specific expression of egl-8 cDNA rescued the suppresion of the SNB-1-localization defect by egl-8(n488) mutation. Steel-Dwass multiple comparison test was performed (n ≥ 15 animals).