

Supplementary Information

Table S1. Substance resources.

Substance	Supplier & Order number	Comments
MEM-Non-Essential Amino Acids	Invitrogen 11140035	
DMEM	Invitrogen 31966047	
Penicillin/Streptomycin	Invitrogen 15140122	
Fetal Bovine Serum (heat inactivated)	Invitrogen 10500064	thaw, aliquot in 50 mL, freeze
Trypsin, 2.5% (10x)	Gibco 15090046	
Trypsin Inhibitor (powder)	Sigma-Aldrich T-9253	
Bovine serum albumin (powder)	Sigma-Aldrich A9418 – 10 g	
0.05% Trypsin/EDTA	Gibco 25300-054	
HBSS	Invitrogen 24020133	
Neurobasal	Invitrogen 21103049	
B27 – Supplement	Invitrogen 17504044	
Glutamax-I Supplement	Invitrogen 35050038	
HEPES (powder dissolved in miliQ water)	Sigma-Aldrich H4034	freeze 3.5 ml aliquots

Video S1: Tomographic reconstruction of a mature synapse (video corresponding to Figure 5D).

Video S2: Synaptic vesicle fusion and endocytosis in a mature synapse (video corresponding to Figure 5F).