

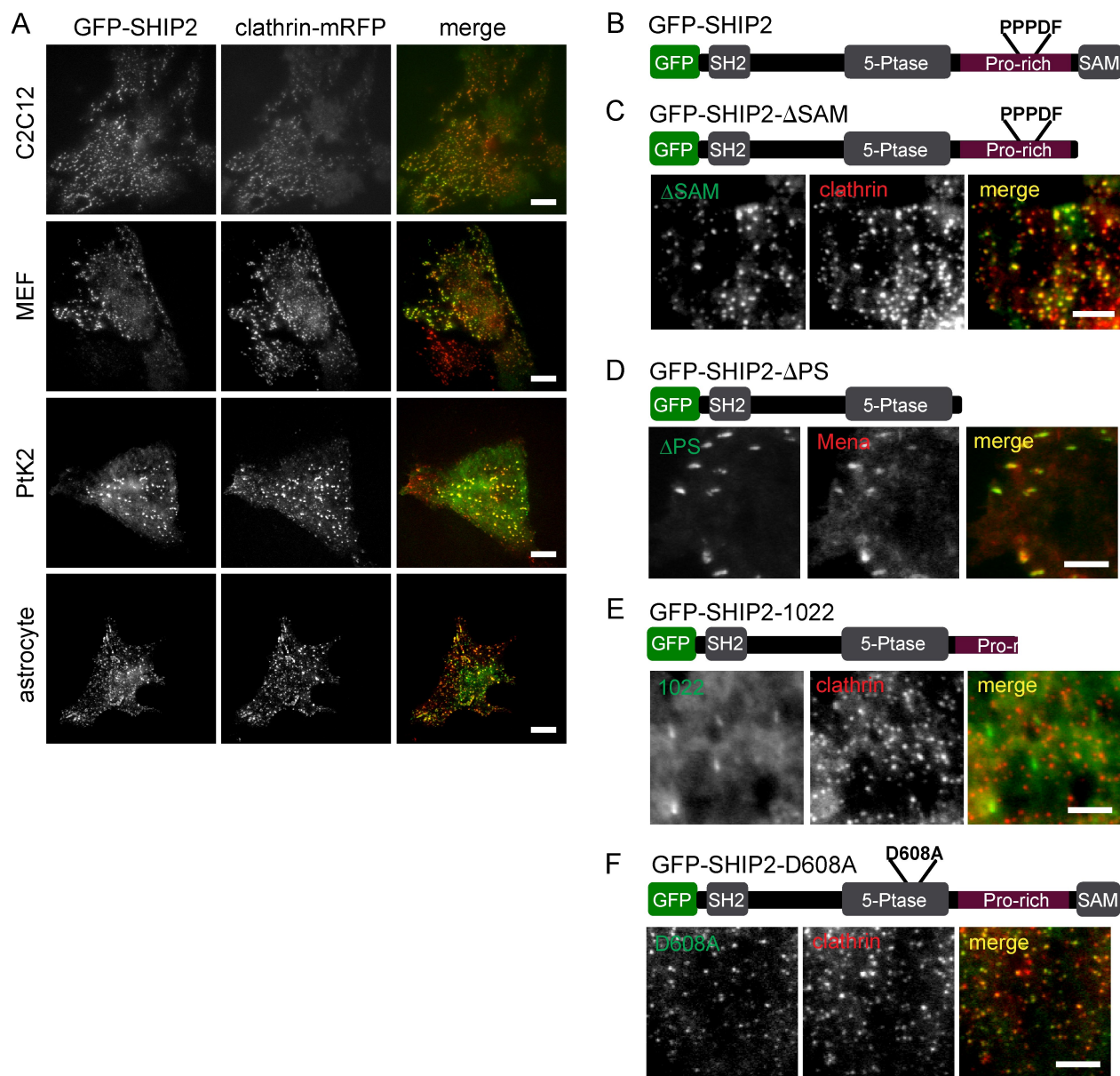
Nakatsu et al., <http://www.jcb.org/cgi/content/full/jcb.201005018/DC1>

Figure S1. TIRFM images (from live cells) showing the localization of GFP-SHIP2 and GFP-SHIP2 mutants in various cell types. (A) Colocalization of GFP-SHIP2 with clathrin-mRFP in myoblastic cells (C2C12), PtK2 cells, mouse embryonic fibroblasts (MEF), and mouse astrocytes in primary culture. (B) Schematic representation of the domain structure of full-length GFP-SHIP2. (C–F) COS-7 cells transiently expressing GFP fusions of the SHIP2 mutant constructs indicated (C-terminal deletion constructs or a catalytically inactive point mutant) together with either clathrin-mRFP or RFP-Mena. SHIP2 constructs lacking the PPPDF sequence do not colocalize with clathrin and are instead localized at focal adhesions, as indicated by colocalization with Mena. 5-Ptase, 5-phosphatase. Bars: (A) 10 μ m; (C–F) 5 μ m.

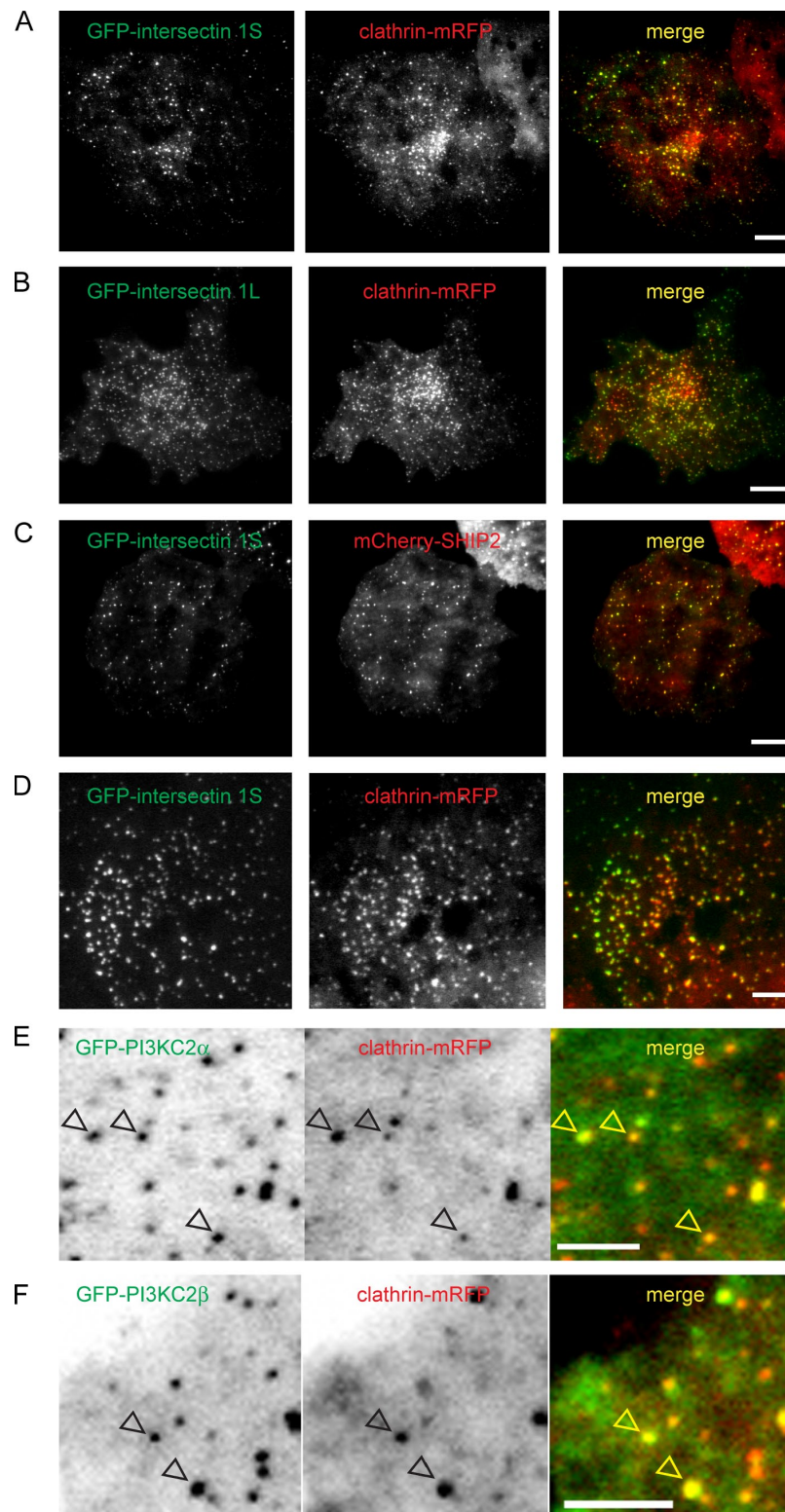


Figure S2. **TIRFM images (from live cells) showing localization of intersectin, SHIP2, and PI3KC2- α and PI3KC2- β at CCPs.** (A–C) Intersectin-S and intersectin-L colocalize with clathrin and SHIP2 in control COS-7 cells. (D) GFP-intersectin colocalizes with clathrin at endocytic CCPs also in SHIP2 KD COS-7 cells. (E and F) Both GFP-PI3KC2- α (E) and -PI3KC2- β (F) colocalize with clathrin-mRFP at endocytic CCPs. Arrowheads point to CCPs positive for PI3KC2- α or PI3KC2- β . Bars, 10 μ m.

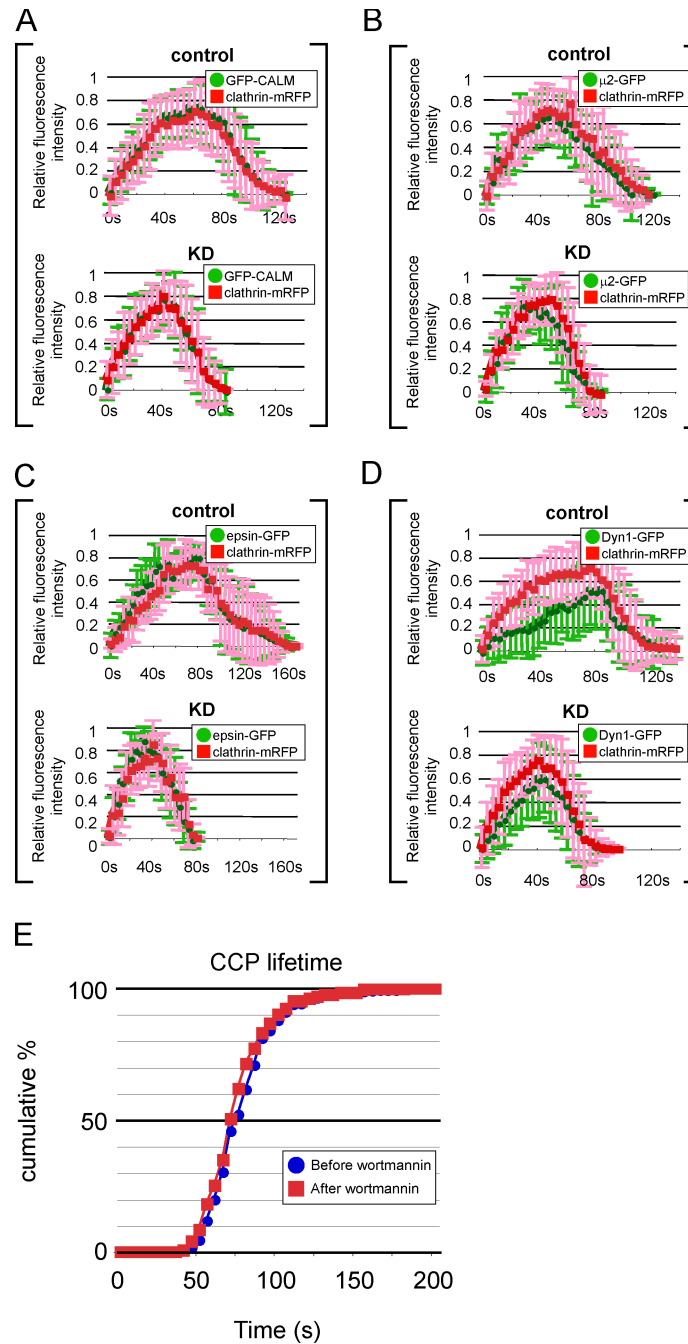
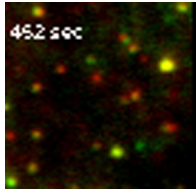
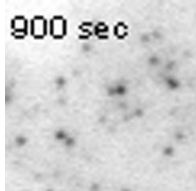


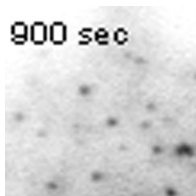
Figure S3. Time course of coat protein fluorescence at endocytic CCPs and lack of effect of wortmannin on endocytic CCP lifetime. (A–D) Time course of relative fluorescence intensity of mRFP and GFP fluorescence in cells double transfected with clathrin-mRFP and with GFP fusions of clathrin adaptors and dynamin as indicated. The graphs represent a different representation of the same data shown in Fig. 3 (D–G). Error bars show mean \pm SD. (E) Cumulative histograms of CCP lifetime (GFP-clathrin light chain signal) in COS-7 cells before ($n = 448$) and after ($n = 370$) the addition of wortmannin.



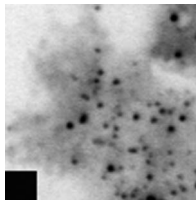
Video 1. **Dynamics of GFP-SHIP2 at CCPs examined by TIRFM** COS-7 cells coexpressing GFP-SHIP2 and clathrin-mRFP. Note that the GFP-SHIP2 signal disappears before clathrin disappearance. GFP-SHIP2 is shown in green, and clathrin-mRFP is shown in red. White lines circle example CCPs. This video is shown at 20 frames/s.



Video 2. **Dynamics of clathrin-GFP in SHIP2 KD COS-7 cells examined by TIRFM.** This video is shown at 50 frames/s.



Video 3. **Dynamics of clathrin-GFP in control COS-7 cells examined by TIRFM.** This video is shown at 50 frames/s.



Video 4. **Dynamics of clathrin-GFP in a ruffle of a FKBP-iSH2-expressing COS-7 cell examined by TIRFM.** This video is shown at 100 frames/s.