



Figure 5 - figure supplement 1. G-baToN is a generalized system that can be used for touching-based labeling between various cell types.

a. Many different cell lines and primary cell types can serve as receiver cells. Receiver cells expressing α GFP were co-cultured with sGFP-expressing *KPT* sender cells for 24 hours. MFI of GFP on *Tomato^{neg}PI^{neg}BFP^{pos}* receiver cells was assessed by FACS analysis. For lung epithelial cells and kidney epithelial cells MFI of GFP on *Tomato^{neg}PI^{neg}BFP^{pos}EpCAM^{pos}* cells is shown as mean \pm SD of triplicate cultures. SkMC: skeletal muscle cells. Astro: Astrocytes. Spleno: splenocytes. ** p<0.01, n=3.

b. Many different cell lines and primary cell types can serve as sender cells. Sender cells expressing sGFP were co-cultured with α GFP 293 receiver cells for 24 hours. MFI of GFP on *mCherry^{neg}PI^{neg}BFP^{pos}* receiver cells was assessed by FACS analysis. Mean \pm SD of triplicate cultures is shown. ** p<0.01, n=3.

c,d,e,f. Diverse primary mouse cells expressing sGFP can transfer GFP to α GFP 293 receivers. Different primary sender cells were first sorted based on their cell surface markers, then transduced with lentiviral vectors expressing sGFP before being co-cultured with α GFP 293 receiver cells for 24 hours. Percentage of *mCherry^{neg}PI^{neg}BFP^{pos}GFP^{pos}* receiver cells was assessed by flow cytometry. For each primary sender, approximate sGFP^{pos} sender : α GFP^{pos} receiver ratio is indicated: **c.** Lung epithelial cells (1:180) (sorted *EpCAM^{pos}* cells from dissociated adult lung); **d.** Kidney epithelial cells (1:20) (sorted *EpCAM^{pos}* cells from dissociated adult kidney); **e.** Splenocyte (1:20); **f.** Cardiomyocyte (1:5) (sorted *Sirpa^{pos}* cells from dissociated adult heart). Percent of labeled cells is indicated as mean \pm SD of triplicate cultures.