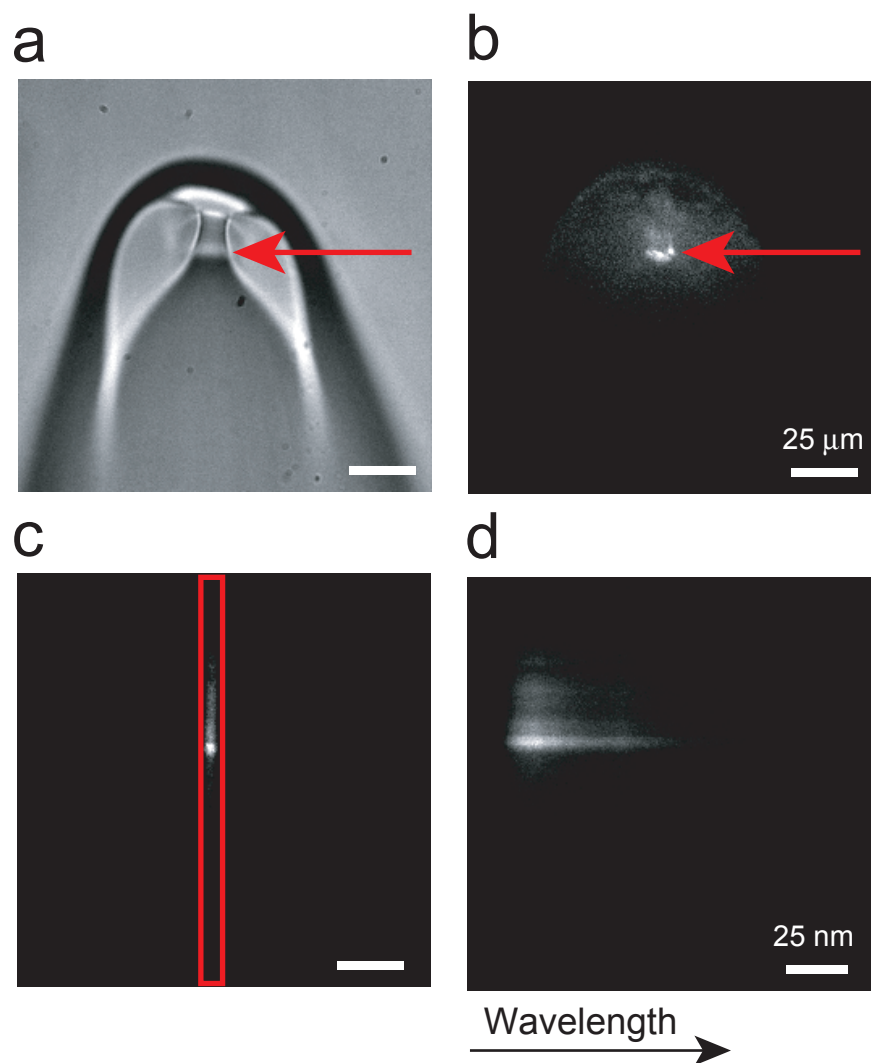
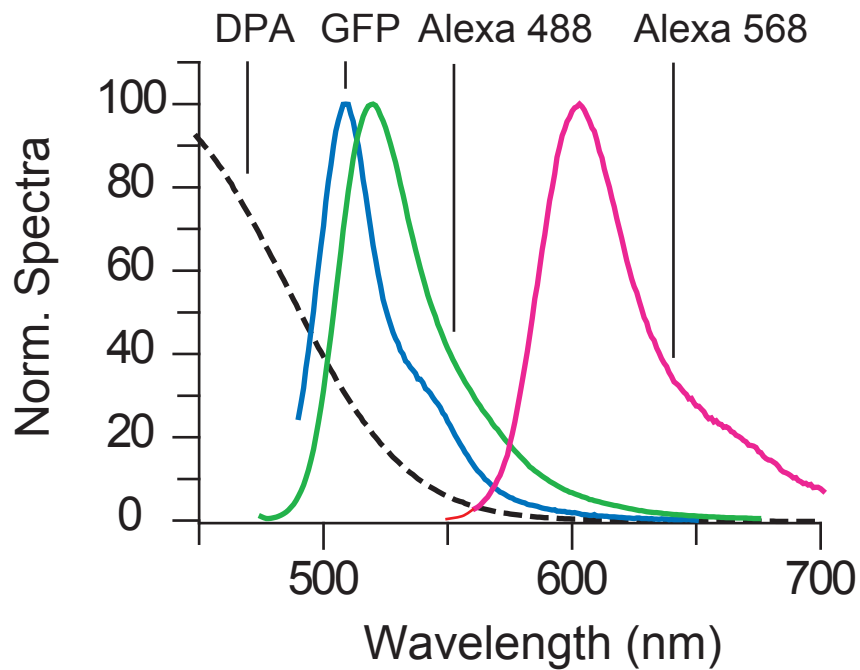


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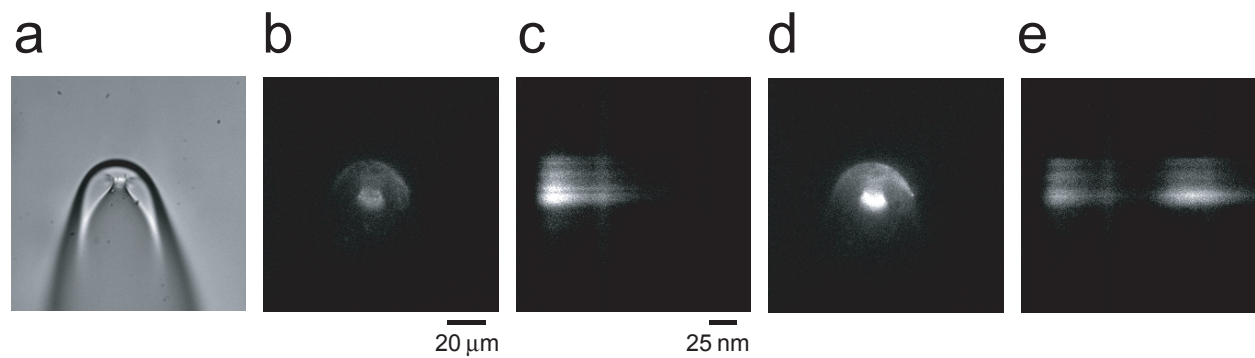
Supplementary Figure 1. (a) Brightfield and (b) fluorescence image of a patch containing CNGA1 Δ 608-GFP channels. The red arrow indicates the position of the patch in both images. (c) Image of the patch positioned in the slit (red rectangle) and (d) the corresponding spectral image of the patch from b.

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Supplementary Figure 2. Spectral overlap between the emission of three donor fluorophores-GFP (blue), Alexa-488 (green), and Alexa-568 (magenta)-and the absorbance of DPA (black).

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Supplementary Figure 3. (a) Brightfield, (b) fluorescence, and (c) spectral image of a patch containing CNGA1_{Cys481}Δ608-GFP. (d) Fluorescence and (e) spectral image of the same patch after labeling Cys481 with Alexa-568.