
![Fluorescence-detected stopped-flow kinetic trace: 434 Cro protein unfolding in 8.5 M urea]

$k = 2.32 \text{ sec}^{-1}$
fluorescence microscopy
actin filaments, visualized with fl.-labelled Ab to actin

Stryer Fig. 4.37
Horton Fig. 1.16

Figure 1.16
Micrographs of fluorescently labeled actin filaments and microtubules in mammalian cells. (Top) Actin filaments in rat muscle cells. (Bottom) Microtubules in human endothelial cells.
Green fluorescent protein (GFP)

Pacific jellyfish, *Aequorea victoria*

Crystals of GFP
recombinant GFP fusion proteins

... a mammalian expression vector encoding GFP cloned from copepoda *Pontellina plumata* ... designed to generate fusions to GFP C-terminus for expression, localization, and cellular dynamics studies ...

*Analyt. Biochem. 3570 Fall 2004 Dr. D. Josephy*
Hoxb7-GFP transgenic mouse kidney; embryonic day 15
Confocal micrograph of a transgenic CD8-GFP-Shaker *Drosophila* third instar larvae viewed from the exterior through the cuticle.
Roger Y. Tsien, a biochemist at Univ. of California, San Diego … designs new visible fluorescent proteins … Tsien's lab has engineered VFPs with better photostability and a shift in their fluorescence wavelength …

VFPs are full-length proteins with molecular weights of about 27 kDa.