

Fluorescent Proteins

The following data table contains the mean lifetimes, absorption and emission maxima of the free and bound forms of important fluorescent probes for ion recognition.

Fluorescent Proteins	Extinction Coefficient	Q.Y.	Ex _{max} [nm]	Em _{max} [nm]	pH Dependence EC 50	Rel. Bleaching Time
EBEFP	31,000	0.25	383	445	5.8	3
ECEFP	26,000	0.40	434	477	4.7	85
EGEFP	55,000	0.60	489	508	5.9	100
EYEP	84,000	0.61	514	527	6.5	35
dsRed	72,500	0.68	558	583	4.3	145

References:

1. Patterson et al., J. Cell Science 114 (5), 837, 2001.
2. Baird et al. Proc. Natl. Acad. Sci. USA 97, 11984, 2000.
3. Matz et al. Nat. Biotechnol. 17, 969, 1999.