Class	Protein	Source laboratory (references)	Excitation ^c (nm)	Emission ^d (nm)	Brightness ^e	Photostability ^f	рКа	Oligomerization
Far-red	mPlum ^g	Tsien (5)	590	649	4.1	53	<4.5	Monomer
Red	mCherry ^g	Tsien (4)	587	610	16	96	<4.5	Monomer
	tdTomato ^g	Tsien (4)	554	581	95	98	4.7	Tandem dimer
	mStrawberry ^g	Tsien (4)	574	596	26	15	<4.5	Monomer
	J-Red ^h	Evrogen	584	610	8.8*	13	5.0	Dimer
	DsRed-monomerh	Clontech	556	586	3.5	16	4.5	Monomer
Orange	m0range ^g	Tsien (4)	548	562	49	9.0	6.5	Monomer
	mK0	MBL Intl. (10)	548	559	31 [*]	122	5.0	Monomer
Yellow-green	mCitrine ⁱ	Tsien (16,23)	516	529	59	49	5.7	Monomer
	Venus	Miyawaki (1)	515	528	53 [*]	15	6.0	Weak dimer ^j
	YPet ^g	Daugherty (2)	517	530	80 [*]	49	5.6	Weak dimer ^j
	EYFP	Invitrogen (18)	514	527	51	60	6.9	Weak dimer ^j
Green	Emerald ⁹	Invitrogen (18)	487	509	39	0.69 ^k	6.0	Weak dimer ^j
	EGFP	Clontech ^l	488	507	34	174	6.0	Weak dimer ^j
Cyan	CyPet	Daugherty (2)	435	477	18 [*]	59	5.0	Weak dimer ^j
	mCFPm ^m	Tsien (23)	433	475	13	64	4.7	Monomer
	Cerul ean ^g	Piston (3)	433	475	27 [*]	36	4.7	Weak dimer ^j
UV-excitable green	T-Sapphire ^g	Griesbeck (6)	399	511	26*	25	4.9	Weak dimer ^j

^aAn expanded version of this table, including a list of other commercially available FPs, is available as **Supplementary Table 1**. ^bThe mutations of all common AFPs relative to the wild-type protein are available in **Supplementary Table 3**. ^cMajor excitation peak. ^cMajor emission peak. ^cProduct of extinction coefficient and quantum yield at pH 7.4 measured or confirmed (indicated by ^{*}) in our laboratory under ideal maturation conditions, in (mM • cm)-1 (for comparison, fluorescein at pH 7.4 has a brightness of about 69 (mM • cm)-1). ^fTime for bleaching from an initial emission rate of 1,000 photons/s down to 500 photons/s (1_{1/2}; for comparison, fluorescein at pH 8.4 has 1_{1/2} of 5.2 s); data are not indicative of photostability under focused laser illumination. ^cBrightest in spectral class. ⁿNot recommended (dim with poor folding at 37 °C). ^lCitrine YFP with A206K mutation; spectroscopic properties equivalent to Citrine. ^lCan be made monomeric with A206K mutation. ^kEmerald has a pronounced fast bleaching component that leads to a very short time to 50% bleach. Its photostability after the initial few seconds, however, is comparable to that of EGFP. ^lFormerly sold by Clontech, no longer commercially available. mECFP with A206K mutation; spectroscopic properties equivalent to EGFP.