

Protein	Excitation peak, nm	Emission peak, nm	EC, M ⁻¹ cm ⁻¹	QY	Relative brightness	pKa	non-comprehensive notes*	Reference(s)/Source
Sirius	355	424	15,000	0.24	0.11	<3.0	B-, pH++, Ps+	(430)
Azurite	383	447	26,000	0.55	0.43	5.0	pH+, Ps+	(283)
EBFP2	383	448	32,000	0.56	0.54	4.5	pH+, Ps+	(9, 155, 156)
TagBFP	402	457	52,000	0.63	0.99	2.7	B+, pH++, Ps+, mat+	(419)
mTurquoise	434	474	30,000	0.84	0.76	4.5	B+, pH+, Ps+	(122)
ECFP	434	477	32,500	0.40	0.39	4.7	pH+	(155, 156)
Cerulean	433	475	36,000	0.57	0.62	4.7	pH+, Pi-	(360)
TagCFP	458	480	37,000	0.57	0.64	4.7	pH+, mat+	Evrogen
mTFP1	462	492	64,000	0.85	1.65	4.3	B+, pH+, Ps+	(7)
mUkG1	483	499	60,000	0.72	1.31	5.2	B+, pH+	(436)
mAG1	492	505	55,000	0.74	1.23	5.8	B+	(201)
AcGFP1	475	505	50,000	0.55	0.83	-		(134)
TagGFP2	483	506	56,500	0.61	1.05	5.0	Ps+, pH+, mat+	(419)
EGFP	489	509	55,000	0.60	1.00	5.9	Ps+	(77, 154, 497)
mWasabi	493	509	70,000	0.80	1.70	6.5	B+, pH-, Ps-	(8)
EmGFP	487	509	57,500	0.68	1.19	6.0	Ps-**	(79)
TagYFP	508	524	64,000	0.62	1.20	5.5	pH+, mat+	Evrogen
EYFP	514	527	84,000	0.61	1.55	6.5	B+, pH-, Cl-	(324)
Topaz	514	527	94,500	0.60	1.72	-	B+	(79)
SYFP2	515	527	101,000	0.68	2.08	6.0	B+, Ps-	(231)
Venus	515	528	92,200	0.57	1.59	6.0	B+, Pi-, Ps-, mat+	(304)
Citrine	516	529	77,000	0.76	1.77	5.7	B+, Ps-	(130)
mKO	548	559	51,600	0.60	0.94	5.0	pH+, Ps+, mat-	(200)
mKO2	551	565	63,800	0.57	1.10	5.5		(370)
mOrange	548	562	71,000	0.69	1.49	6.5	B+, pH-, Ps-	(384)
mOrange2	549	565	58,000	0.60	1.06	6.5	pH-, Ps+, mat-	(385)
TagRFP	555	584	100,000	0.48	1.42	<4.0	B+, pH+	(285)
TagRFP-T	555	584	81,000	0.41	0.99	4.6	pH+, Ps+	(385)
mStrawberry	574	596	90,000	0.29	0.79	<4.5	pH+, Ps-	(384)
mRuby	558	605	~90,000	0.35	1.06	4.4	pH+, Ps-	(228)
mCherry	587	610	72,000	0.22	0.48	<4.5	pH+, Ps+	(384)
mRaspberry	598	625	86,000	0.15	0.39	-	Ps-	(468)
mKate2	588	633	62,500	0.40	0.76	5.4	Ps+, mat+	(389)
mPlum	590	649	41,000	0.10	0.12	<4.5	pH+, B-, Ps-	(468)
mNeptune	600	650	67,000	0.20	0.41	5.4	mat-	(248)
T-Sapphire	399	511	44,000	0.60	0.79	4.9	pH+	(435, 512)
mAmetrine	406	526	45,000	0.58	0.78	6.0	Ps-	(6)
mKcima	440	620	14,400	0.24	0.10	6.5	B-, pH-	(219)

FIG. 10. Selected monomeric FPs (updated 2009). The table includes monomeric FPs that are the best or the only one in their color class, the most popular, or the most recently published. **Noncomprehensive* means that absence of information does not imply any bad or good characteristics. **Pronounced fast bleaching component (387). B-, low brightness; Ps-, low photostability; Pi-, strong reversible photoinactivation; pH-, low pH stability; Cl-, sensitivity to Cl⁻; mat-, slow maturation; Ps+, high photostability; pH+, high pH stability; pH++, extreme pH stability; mat+, fast maturation; B+, high brightness.