

Table 2. Characterization of different FP variants

Fluorescent protein	Excitation maximum (nm)	Excitation wave length (nm)	Emission maximum according to references (nm)	Emission maximum measured in this study (nm)	Standard deviation (SD)	Number of nuclei analyzed (n)	Reference spectra obtained from
eGFP	488	488	509.5	506	1.21	20	25
eYFP	514	488	527	522	1	4	25
Venus	515	488	528	524	1.04	14	18
eCFP	434	405	475; 501	474; 500	1.82; 3.03	16	25
Cerulean	433	405	475; 501	474; 496	0.57; 2.67	12	21
mCherry	587	559	610	598	1.26	16	19
mRFP	584	559 and 561**	608	598 and 596* and 607**	1.17 and 2.19* and 1.13**	33 and 22* and 13**	26
TagRFP	555	515	583	572	1.56	9	20

* indicates experiments performed with free mRFP

** indicates experiments performed with Zeiss LSM 710