

Green fluorescent protein CopGFP

- Bright green fluorescence
- Extra fast maturation at a wide range of temperatures

Description

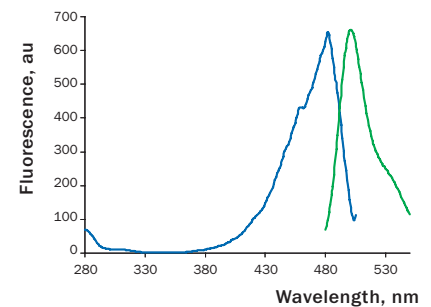
CopGFP (ppluGFP2 in our scientific publications, Shagin *et al.*, 2002) is a green fluorescent protein cloned from copepod *Pontellina plumata* (Arthropoda; Crustacea; Maxillopoda; Copepoda). CopGFP is characterized by superbright green fluorescence (excitation/ emission max = 482/ 502 nm) and fast maturation rate at a wide range of temperatures.

CopGFP demonstrates successful performance when expressed in cold-blooded animals, however exhibits a tendency to form aggregates in mammalian cells especially in long-term cultures.

Main properties of CopGFP

Characteristic	
Molecular weight	26 kDa
Fluorescence color	green
Excitation max	482 nm
Emission max	502 nm
Quantum yield	0.60
Extinction coefficient	70 000 M ⁻¹ cm ⁻¹
Brightness**	42.0
pKa	4.3
Structure	tetramer
Aggregation	yes
Maturation at 37°C	superfast
Photostability	high

*Brightness is a product of extinction coefficient and quantum yield, divided by 1000.



CopGFP normalized excitation (thin line) and emission (thick line) spectra.

Complete CopGFP spectra in Excel format can be downloaded from the Evrogen Web site at www.evrogen.com/CopGFP.shtml

Recommended filter sets and antibodies

CopGFP can be detected using common fluorescence filter sets for EGFP, FITC, and other green dyes. Recommended Omega Optical filter sets are QMAX-Green, XF100-2, XF100-3, XF115-2, and XF116-2.

Antibodies against CopGFP (Cat.# AB501, AB502, AB513, AB514) are available from Evrogen.

References

Shagin *et al.* (2004) *Mol. Biol. Evol.* 21(5): 841-850.

Available CopGFP-related products

Product	Cat.#	Description	Size
Antibodies against CopGFP			
Anti-CopGFP antibody	AB501	Rabbit polyclonal antibody against non-denatured CopGFP	100 µg
	AB502		200 µg
Anti-CopGFP (d) antibody	AB513	Rabbit polyclonal antibody against denatured CopGFP and TurboGFP	100 µg
	AB514		200 µg

Please contact your local distributor for exact prices and delivery information.

Notice to Purchaser:

CopGFP-related products: These products are intended for research use only and covered by Evrogen Patents and/or Patent applications pending. By use of these products, you accept the terms and conditions of the applicable Limited Use Label License (available at www.evrogen.com/Evrogen-FP-license.shtml).