

# Recombinant *A. victoria* GFP protein ab84191

★★★★★ [3 Abreviews](#) [7 References](#) [画像数 2](#)

### 製品の詳細

製品名	Recombinant <i>A. victoria</i> GFP protein		
精製度	> 95 % SDS-PAGE. Purified using conventional chromatography techniques.		
エンドキシン・レベル	< 1.000 Eu/μg		
発現系	Escherichia coli		
アクセッション番号	<b>P42212</b>		
タンパク質長	Full length protein		
Animal free	No		
由来	Recombinant		
生物種	<i>Aequorea victoria</i>		
配列	MSKGEELFTG VVPILVELDG DVNGHKFSVS GEGEGDATYG KLTLLKFICTT GKLPVPWPTL VTTFSYGVQC FSRYPDHMKQ HFFKSAMPE GYVQERTIFF KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG IKVNFKIRHN IEDGSVQLAD HYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV LEFVTAAGIT HGMDELYK		
予測される分子量	27 kDa		
領域	1 to 238		
配列の追加情報	(AAA27721) MW confirmed by MALDI-TOF.		
製品の詳細	Recombinant <i>A. victoria</i> GFP protein		

### 特性

Our [Abpromise guarantee](#) covers the use of **ab84191** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE
	Western blot
	Functional Studies

質量分析	MALDI-TOF
製品の状態	Liquid
備考	Endotoxin Level determined by LAL method. Concentration determined by Bradford assay.

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## 前処理および保存

保存方法および安定性	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  pH: 8.00 Constituents: 0.316% Tris HCl, 10% Glycerol  This product is an active protein and may elicit a biological response in vivo, handle with caution.
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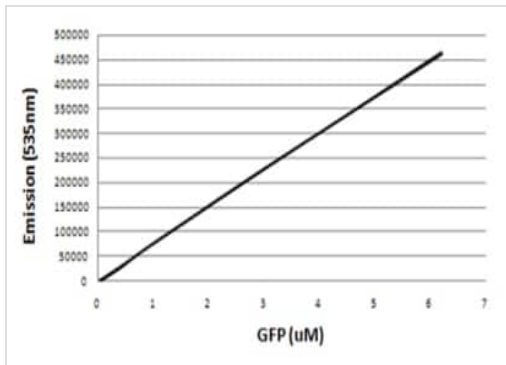
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## 関連情報

関連性	<p><b>Function:</b> Energy-transfer acceptor. Its role is to transduce the blue chemiluminescence of the protein aequorin into green fluorescent light by energy transfer. Fluoresces in vivo upon receiving energy from the Ca<sup>2+</sup>-activated photoprotein aequorin.</p> <p><b>Subunit structure:</b> Monomer.</p> <p><b>Tissue specificity:</b> Photocytes.</p> <p><b>Post-translational modification:</b> Contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Ser-65 and Gly-67, and oxidation of Tyr-66 to didehydrotyrosine. Maturation of the chromophore requires nothing other than molecular oxygen.</p> <p><b>Biotechnological use:</b> Green fluorescent protein has been engineered to produce a vast number of variously colored mutants, fusion proteins, and biosensors. Fluorescent proteins and its mutated allelic forms, blue, cyan and yellow have become a useful and ubiquitous tool for making chimeric proteins, where they function as a fluorescent protein tag. Typically they tolerate N- and C-terminal fusion to a broad variety of proteins. They have been expressed in most known cell types and are used as a noninvasive fluorescent marker in living cells and organisms. They enable a wide range of applications where they have functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions. Can also be used as a molecular thermometer, allowing accurate temperature measurements in fluids. The measurement process relies on the detection of the blinking of GFP using fluorescence correlation spectroscopy.</p> <p><b>Sequence similarities:</b> Belongs to the GFP family.</p> <p><b>Biophysicochemical properties:</b> Absorption: Abs(max)=395 nm Exhibits a smaller absorbance peak at 470 nm. The fluorescence emission spectrum peaks at 509 nm with a shoulder at 540 nm.</p>
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## 画像



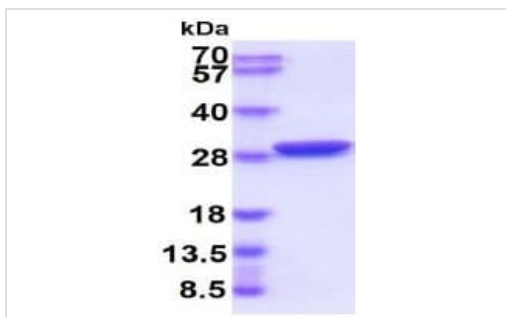
Functional Studies - Recombinant *A. victoria* GFP protein (ab84191)

1. Prepare a 150  $\mu$ l recombinant GFP with various concentrations (0.00074 nM - 6.21  $\mu$ M) in assay buffer and equilibrate to 25°C. (Assay buffer: 10 mM Tris-HCl (pH 8.0), 10 mM EDTA, 0.02% sodium azide.)

2. Read at excitation wavelengths 485 nm and emission 535 nm.

- 96 Well Polystyrene Microplate, black

- Fluorescent plate reader



SDS-PAGE - Recombinant *A. victoria* GFP protein (ab84191)

3  $\mu$ g of reduced ab84191 on SDS-PAGE, stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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