

Recombinant A. victoria GFP protein ab84191

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描述	
产品名称	重组A. victoria GFP蛋白
纯度	> 95 % SDS-PAGE. Purified using conventional chromatography techniques.
内毒素水平	< 1.000 Eu/μg
表达系统	Escherichia coli
Accession	<b><u>P42212</u></b>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Aequorea victoria
序列	MSKGEELFTG VVPILVELDG DVNGHKFSVS GEGEGDATYG KLTCLKFICTT GKLPVPWPTL VTTFSYGVQC FSRYPDHMKQ HDFFKSAMPE GYVQERTIFF KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG IKVNFKIRHN IEDGSVQLAD HYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV LEFVTAAGIT HGMDELYK
预测分子量	27 kDa
氨基酸	1 to 238
额外的序列信息	(AAA27721) MW confirmed by MALDI-TOF.
描述	重组A. victoria GFP蛋白

技术指标	
Our <b><u>Abpromise guarantee</u></b> covers the use of <b>ab84191</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	SDS-PAGE Western blot Functional Studies

质谱法	MALDI-TOF
形式	Liquid
补充说明	Endotoxin Level determined by LAL method. Concentration determined by Bradford assay.

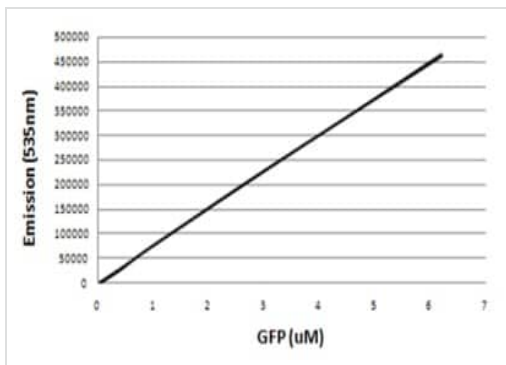
## 制备和贮存

稳定性和存储	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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## 常规信息

相关性	<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 <math>\text{Ca}^{2+}</math>-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 dihydroxytyrosine. 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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## 图片



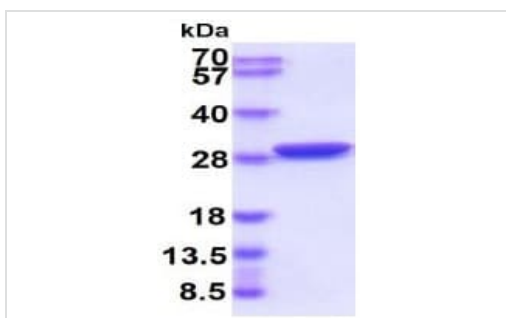
Functional Studies - Recombinant *A. victoria* GFP protein (ab84191)

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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