abcam

Product datasheet

# Recombinant E. coli GFP protein (His tag) ab119740

**4 References** 1 图像

## 描述

| | |
|---|---|
| **产品名称** | 重组E. coli GFP蛋白(His tag) |
| **纯度** | > 80 % SDS-PAGE.<br>The purity was determined to be 80% by densitometry |
| **表达系统** | Escherichia coli |
| **Accession** | **B6UPG7** |
| **蛋白长度** | Full length protein |
| **无动物成分** | No |
| **性质** | Recombinant |
| **种属** | Escherichia coli |
| **预测分子量** | 39 kDa including tags |
| **氨基酸** | 1 to 238 |
| **标签** | His tag N-Terminus |
| **描述** | 重组*E. coli* GFP蛋白(His tag) |

## 技术指标

Our **Abpromise guarantee** covers the use of **ab119740** in the following tested applications.

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

| | |
|---|---|
| **应用** | Western blot<br>SDS-PAGE |
| **形式** | Liquid |

## 制备和贮存

| | |
|---|---|
| **稳定性和存储** | Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.<br>pH: 7.00<br>Preservative: 1.02% Imidazole<br>Constituents: 0.002% PMSF, 0.71% Sodium phosphate, 0.005% DTT, 25% Glycerol (glycerin, glycerine), 1.75% Sodium chloride |

## 常规信息

### 相关性

**Function:** 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 $Ca^{2+}$ -activated photoprotein aequorin.

**Subunit structure:** Monomer.

**Tissue specificity:** Photocytes.

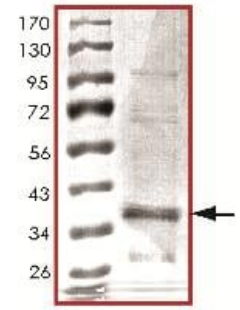
**Post-translational modification:** Contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Ser-65 and Gly-67, and oxidation of Tyr-66 to didehydrotyrosine. Maturation of the chromophore requires nothing other than molecular oxygen.

**Biotechnological use:** 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.

**Sequence similarities:** Belongs to the GFP family.

**Biophysicochemical properties:** 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.

## 图片




SDS-PAGE - Recombinant *E. coli* GFP protein (His tag) (ab119740)

The purity of ab119740 was determined to be >80% by densitometry.

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors