

## GST-eGFP fusion protein, DYKDDDDK tag

**Lot # 600603-3023-024**

Product	Catalog No.	Package size
GST-eGFP fusion protein, DYKDDDDK tag (50 ug)	29921	1 x 50 µg
GST-eGFP fusion protein, DYKDDDDK tag (250 ug)	29923	1 x 250 µg

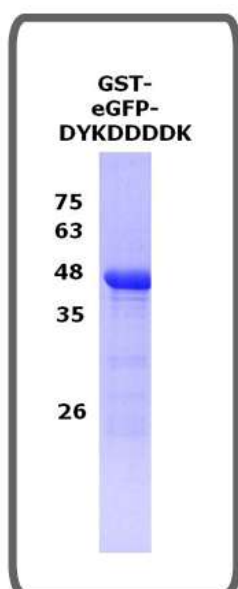
### Product Description

Green Fluorescent Protein is a natural, autofluorescent protein from the jellyfish *Aequorea victoria* that is frequently used as a control protein in method development and calibration. Enhanced GFP (eGFP) is a mutated GFP with enhanced fluorescence signal and a slightly shifted excitation spectrum. Cube Biotech offers three variants of eGFP with His, GST, Rho1D4, and DYKDDDDK (also known as FLAG<sup>®</sup>) tags.

Protein class	beta-barrel, autofluorescent protein
Sequence	<b>GFP</b> , <b>Thrombin cleavage site</b> , <b>HRV3C (PreScission) cleavage site</b> , <b>Spacer</b> , <b>DYKDDDDK tag</b>
	<b>MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYY IDGDVKLTQSMAIIRYIADKHNLGCGPKERAISMLEGAVLDIRYGVSRIAYSKDFE TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAF PKLVCFKKRIEAIQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPRGSLEVL FOGPM</b> MRSGKGEELFTGVVPIVELDGDVNGHKFSVSGEGEGDATYGKLTGKLFICTTGKLPVPW PTLVTTLYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVN RIELKGIDFKEDGNILGHKLEYNNGHNVYITADKQKNGIKANFKIRHNIEDGSVQLADHYQQN TPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMVLEFVTAAGITHGMDELYK <b>GSSGDYKDD DDK</b>
Affinity tags	GFP tag (N-terminus), DYKDDDDK (FLAG) tag (C-terminus)
Size	486 amino acids 55.5 kDa
Excitation maximum	488 nm
Fluorescence maximum	509 nm

### Quality Control

Purity	>98% as determined by SDS-PAGE, see Figure 1
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**Fig. 1: SDS-PAGE of GST-eGFP-DYKDDDDK.**

### Preparation:

Expression system	<i>E. coli</i>
Purification	PureCube Glutathion Agarose
Buffer	Lyophilized from 10 mM Tris-HCl, pH 4.0
Re	Dissolve in a suitable volume of ddH <sub>2</sub> O, e.g., 50 µL (50 µg aliquot) /250 µL (250 µg aliquot) to obtain a 1 mg/mL solution.
Quantity	50 and 250 µg aliquots

### Applications

- SDS-PAGE
- Western Blot
- Protein Crystallization
- Biochemical and biophysical analyses

### Shipping & Storage

Shipping conditions	Room temperature
Storage conditions	-20°C. Avoid freeze-thaw cycles
<b>Important: GFP is light-sensitive and must be stored in the dark.</b>	

**Disclaimer:** Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease. FLAG is a registered trademark of Sigma Aldrich.

**Proteins are our passion.**