

Datasheet for ABIN1046987

**EIF1 Protein (AA 1-113, full length) (GST tag)**[Go to Product page](#)**1** Image**4** Publications

## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 100 µg                                      |
| Target:                       | EIF1  |
| Protein Characteristics:      | AA 1-113, full length                       |
| Origin:                       | Human                                       |
| Source:                       | Escherichia coli (E. coli)                  |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This EIF1 protein is labelled with GST tag. |
| Application:                  | ELISA                                       |

## Product Details

|                  |  |
|------------------|--|
| Sequence:        | MSAIQNLHSF DPFADASKGD DLLPAGTEDY IHIRIQQRNG RKTLTTVQGI ADDYDKKKLV<br>KAFKKKFACN GTVIEHPEYG EVIQLQGDQR KNICQFLVEI GLAKDDQLKV HGF  |
| Characteristics: | Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time. |
| Purity:          | 90 %   |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | EIF1  |
| Alternative Name: | Eukaryotic translation initiation factor 1 protein ( <a href="#">EIF1 Products</a> )  |
| Background:       | Necessary for scanning and involved in initiation site selection. Promotes the assembly of 48S ribosomal complexes at the authentic initiation codon of a conventional capped mRNA. |

## Target Details

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Molecular Weight: 40.1 kD

UniProt: [P41567](#)

## Application Details

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**Comment:** The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.

**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Concentration:** 0.2-2 mg/mL

**Buffer:** Tris-based buffer, 50 % glycerol

**Handling Advice:** Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week

**Storage:** -20 °C

**Storage Comment:** Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

## Publications

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**Product cited in:** Gerhard, Wagner, Feingold, Shenmen, Grouse, Schuler, Klein, Old, Rasooly, Good, Guyer, Peck, Derge, Lipman, Collins, Jang, Sherry, Feolo, Misquitta, Lee, Rotmistrovsky, Greenhut, Schaefer, Buetow et al.: "The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). ..." in: **Genome research**, Vol. 14, Issue 10B, pp. 2121-7, (2004) ([PubMed](#)).

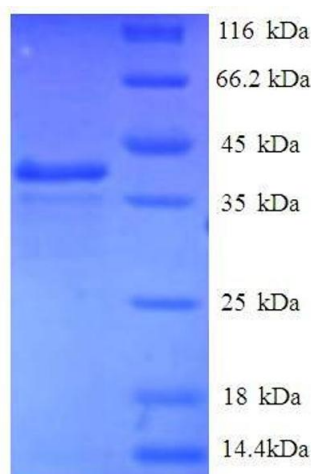
Mendell, Medghalchi, Lake, Noensie, Dietz: "Novel Upf2p orthologues suggest a functional link between translation initiation and nonsense surveillance complexes." in: **Molecular and cellular biology**, Vol. 20, Issue 23, pp. 8944-57, (2000) ([PubMed](#)).

Sheikh, Fernandez-Salas, Yu, Hussain, Dinman, Peltz, Huang, Fornace: "Cloning and characterization of a human genotoxic and endoplasmic reticulum stress-inducible cDNA that encodes translation initiation factor 1(eIF1(A121/SUI1))." in: **The Journal of biological chemistry**, Vol. 274, Issue 23, pp. 16487-93, (1999) ([PubMed](#)).

Fields, Adams: "Expressed sequence tags identify a human isolog of the suil translation initiation factor." in: **Biochemical and biophysical research communications**, Vol. 198, Issue 1, pp. 288-91, (1994) ([PubMed](#)).

## Images

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### SDS-PAGE

**Image 1.** Eukaryotic Translation Initiation Factor 1 (EIF1) (AA 1-113), (full length) protein (GST tag)