

## Recombinant Human EIF2S3

**Cat. No.** EIF2S3-28379TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human EIF2G with N-terminal proprietary tag. Mol Wt 35.53 kDa inclusive of tag.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Protein Length</b>	90 amino acids
<b>Description</b>	The protein encoded by this gene is the largest subunit of a heterotrimeric GTP-binding protein involved in the recruitment of methionyl-tRNA(i) to the 40 S ribosomal subunit.
<b>Molecular Weight</b>	35.530kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino</b>	GVRTEGDKKAQKLVQKLSKNEVLMVNIGSLSTGGRVSAVKADLGKIVLTNPVCTEVGE

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**acids** KIALSRRVEKHWRLIGWGQIRRGVTIKPTVDDD

**Sequence Similarities** Belongs to the GTP-binding elongation factor family. EIF2G subfamily.

## GENE INFORMATION

**Gene Name** EIF2S3 eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa [ Homo sapiens ]

**Official Symbol** EIF2S3

**Synonyms** EIF2S3; eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa; EIF2G, eukaryotic translation initiation factor 2, subunit 3 (gamma, 52kD); eukaryotic translation initiation factor 2 subunit 3; EIF2; EIF2gamma; eukaryotic translation initiati

**Gene ID** 1968

**mRNA Refseq** NM\_001415

**Protein Refseq** NP\_001406

**MIM** 300161

**Uniprot ID** P41091

**Chromosome Location** Xp22.2-p22.1

**Pathway** Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation

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Initiation, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem; Formation of the ternary complex, and subsequently, the 43S complex, organism-specific biosystem; GTP hydrolysis and joining of the 60S ribosomal subunit, organism-specific biosystem;

**Function**

GTP binding; GTPase activity; nucleotide binding; protein binding; translation factor activity, nucleic acid binding;

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