

## Recombinant Human EIF3G Protein (P2-N320), Tag Free

**Cat. No.** EIF3G-1056H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Human GG-eIF3g(P2-N320 end) Protein was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | P2-N320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p>RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA<sup>i</sup> and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression. This subunit can bind 18S rRNA.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>        | < 0.01 EU per µg of the protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Buffer</b>   | Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Shipping</b>         | It is shipped out with blue ice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>        | EIF3G eukaryotic translation initiation factor 3, subunit G [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b>  | EIF3G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>         | EIF3G; eukaryotic translation initiation factor 3, subunit G; EIF3S4, eukaryotic translation initiation factor 3, subunit 4 delta, 44kDa; eukaryotic translation initiation factor 3 subunit G; eIF3 delta; eIF3 p44; eIF3g; eIF3 p42; eIF-3-delta; eIF-3 RNA-binding subunit; eukaryotic translation initiation factor 3 subunit 4; eukaryotic translation initiation factor 3 subunit p42; eukaryotic translation initiation factor 3 RNA-binding subunit; eukaryotic translation initiation factor 3, subunit 4 delta, 44kDa; eukaryotic translation initiation factor 3, subunit 4 (delta, 44kD); EIF3S4; EIF3-P42; eIF3-p44; eIF3-delta; |
| <b>Gene ID</b>          | 8666                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>      | NM_003755                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|----------------|-----------|
| Protein Refseq | NP_003746 |
| MIM            | 603913    |
| UniProt ID     | O75821    |

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