

# Recombinant Human GFM2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GFM2-4459H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b> | GFM2 MS Standard C13 and N15-labeled recombinant protein (NP_115756) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>Eukaryotes contain two protein translational systems, one in the cytoplasm and one in the mitochondria. Mitochondrial translation is crucial for maintaining mitochondrial function and mutations in this system lead to a breakdown in the respiratory chain-oxidative phosphorylation system and to impaired maintenance of mitochondrial DNA. This gene encodes one of the mitochondrial translation elongation factors, which is a GTPase that plays a role at the termination of mitochondrial translation by mediating the disassembly of ribosomes from messenger RNA. Its role in the regulation of normal mitochondrial function and in disease states attributed to mitochondrial dysfunction is not known. Alternative splicing results in multiple transcript variants encoding distinct isoforms.</p> |
| <b>Molecular Mass</b>   | 86.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MLTNLRIFAMSHQTIPSVYINNCCYKIRASLKRLKPHVPLGRNCSSLPLGLIGNDIKSIH<br>SIINPPIAKIRNIGIMAHIDAGKTTTTERILYYSGYTRSLGDVDDGDTVTDMAQERER<br>GITIQSAAVTFDWKGYRVNLIDTPGHVDFTLEVERCLRVLDGAVAVFDASAGVEAQT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LTVWRQADKHNIPRICFLNKMDKTGASFKYAVESIREKLKAKPLLLQLPIGEAKTFKG  
 VVDVVMKEKLLWNCNSNDGKDFERKPLLEMNDPELLKETTEARNALIEQVADLDDE  
 FADLVLEEFSENFDLLPAEKLQTAIHRVTLAQTAVPVLCGSALKKNKGIQPLLDVATMY  
 LPSPEERNYEFLLQWYKDDLCALAFKVLHDKQRGPLVFMRIYSGTIKPQLAIHNINGNC  
 TERISRLLLPFADQHVEIHSLTAGNIALTVGLKHTATGDTIVSSKSSALAAARRAEREG  
 EKKHRQNNEAERLLLAGVEIPEPVFFCTIEPPSLSKQPDLEHALKCLQREDPSLKVRL  
 DPDSGQTVLCGMGELHIEIHDRIKREYGLETYLGPLQVAYRETILNSVRATDTLDRTL  
 GDKRHLVTVEVGARPIETSSVMPVIEYAESINEGLLKVSQEIENGHSACLQGPLLG  
 SPIQDVAITLHSLTIHPGTSTTMISACVSRVCQKALKKADKQVLEPLMNLEVTVARDYL  
 SPVLADLAQRRGNIQEIQTRQDNKVIGFVPLAGIMGYSTVLRTLTSGSATFALELST  
 YQAMNPQDQNTLLNRRSGLTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GFM2 GTP dependent ribosome recycling factor mitochondrial 2 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | GFM2                                                                                  |
| <b>Synonyms</b>        | GFM2; G elongation factor, mitochondrial 2; ribosome-releasing factor 2,              |

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mitochondrial; EFG2; FLJ21661; MSTP027; mitochondrial elongation factor G2; elongation factor G 2, mitochondrial; mitochondrial ribosome recycling factor 2; RRF2; MRRF2; hEFG2; MST027; RRF2mt; EF-G2mt; mEF-G 2;

**Gene ID** [84340](#)

**mRNA Refseq** [NM\\_032380](#)

**Protein Refseq** [NP\\_115756](#)

**MIM** [606544](#)

**UniProt ID** [Q969S9](#)

**SDS-PAGE**

