

Recombinant Full Length Human GFM2 Protein, GST-tagged

Cat. No. GFM2-5382HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GFM2 full-length ORF (NP_115756.2, 1 a.a. - 779 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	779 amino acids
Description	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 mitochondrial translation elongation factors. Its role in the regulation of normal mitochondrial function and in different disease states attributed to mitochondrial dysfunction is not known. Alternative splicing results in at least three transcript variants encoding distinct isoforms. [provided by RefSeq]
Molecular Mass	113 kDa
AA Sequence	MLTNLRIFAMSHQTIPSVYINNCCYKIRASLKRLKPHVPLGRNCSSLPGLIGNDIKSLH SIINPPIAKIRNIGIMAHIDAGKTTTTTERILYYSYG YTRSLGDVDDGDTVTD FMAQERER GITIQSAAVTFDWKGYRVNLIDTPGHVDFTLEVERCLRVLDGAVAVFDASAGVEAQT LTVWRQADKHNIPRICFLNKMDKTGASF KYAVESIREKLKAKPLLLQLPIGEAKTFKG VVDVVMKEKLLWNCNSNDGKDFERKPLLEMNDPELLKETTEARNALIEQVADLDDE

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FADLVLEEFSENFDLLPAEKLQTAIHRVTLAQTAVPVLCGSALKNKGIQPLLDVATMY
 LPSPEERNYEFLLQWYKDDLCALAFKVLHDKQRGPLVFMRIYSGTIKPQLAIHNINGNC
 TERISRLLLPFADQHVEIPSLTAGNIALTVGLKHTATGDTIVSSKSSALAAARRAEREG
 EKKHRQNNEAERLLLAGVEIPEPVFFCTIEPPSLSKQPDLEHALKCLQREDPSLKVRL
 DPDSGQTVLCGMGELHIEIIHDRIKREYGLETYLGPLQVAYRETILNSVRATDTLDRTL
 GDKRHLVTVEVEARPIETSSVMPVIEFEYAESINEGLLKVSQEAIENGIHSACLQGPLL
 GSPIQDVAITLHSLTIHPGTSTTMISACVSRVQKALKKADKQVLEPLMNLEVTVARD
 YLSPVLADLAQRRGNIQEIQTRQDNKVVIGFVPLAEIMGYSTVLRRLTSGSATFALELS
 TYQAMNPQDQNTLLNRRSGLT

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

GFM2 G elongation factor, mitochondrial 2 [Homo sapiens]

Official Symbol

GFM2

Synonyms

GFM2; G elongation factor, mitochondrial 2; ribosome-releasing factor 2, 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;

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Gene ID	84340
mRNA Refseq	NM_032380
Protein Refseq	NP_115756
MIM	606544
UniProt ID	Q969S9

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