

Recombinant Full Length Human GFM1 Protein, GST-tagged

Cat. No. GFM1-5381HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GFM1 full-length ORF (NP_079272.4, 1 a.a. - 751 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	751 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 the 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. [provided by RefSeq
Molecular Mass	109.9 kDa
AA Sequence	MRLLGAAVAALGRGRAPASLGWQRKQVNWKACRWSSSGVIPNEKIRNIGISAHID SGKTTLTERVLYYTGRIAKMHEVKGKDGVGAVMDSMELERQRGITIQSAATYTMWK DVNINIIDTPGHVDFTIEVERALRVLDGAVLVLCVGGVQCQTMTVNRQMKRYNVPF LTFINKLDRMGSNPARALQQMRSKLNHNAAFMQIPMGLEGNFKGIVDLIEERAIYFD GDFGQIVRYGEIPAELRAAATDHRQELIECVANSDEQLGEMFLEEKIPSISDLKLAIRR ATLKRSFTPVFLGSALKNKGVPQLLDVLEYLPNPSEVQNYAILNKEDDSKEKTKILM

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NSSRDNSHPFVGLAFKLEVGRFGQLTYVRSYQGELKKGDTIYNTRTRKKVRLQRLA
 RMHADMMEDVEEVYAGDICALFGIDCASGDTFTDKANSGLSMESIHVPDPVISIAMK
 PSNKNDLEKFSKGIGRFTREDPTFKVYFDTENKETVISGMGELHLEIYAQRLEREYG
 CPCITGKPKVAFRETITAPVPFDFTHKKQSGGAGQYGKVGIVLEPLDPEDYTKLEFSD
 ETFGSNIPKQFVPAVEKGFLDACEKGPLSGHKLSGLRFLVDGAHHMVDSNEISFIR
 AGEKALKQALANATLCILEPIMAVEVVAPNEFQGQVIAGINRRHGVITGQDGVEDYFT
 LYADVPLNDMFGYSTEIRSCTEGKGEYTMESRYQPCLPSTQEDVINKYLEATGQL
 PVKKKGKAKN

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

GFM1 G elongation factor, mitochondrial 1 [Homo sapiens]

Official Symbol

GFM1

Synonyms

GFM1; G elongation factor, mitochondrial 1; G translation elongation factor, mitochondrial; elongation factor G, mitochondrial; EFGM; EGF1; GFM; EF-Gmt; mEF-G 1; elongation factor G1; mitochondrial elongation factor G; mitochondrial elongation factor G1; elongation factor G 1, mitochondrial; EFG; EFG1; hEFG1; COXPD1; FLJ12662; FLJ13632; FLJ20773;

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Gene ID	85476
mRNA Refseq	NM_024996
Protein Refseq	NP_079272
MIM	606639
UniProt ID	Q96RP9

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