Recombinant Human GFM2, His-tagged

Cat. No. GFM2-90H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ribosome-Releasing factor 2 Mitochondrial/GFM2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence of Human GFM2 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
Description	Ribosome-Rreleasing factor 2 Mitochondrial (GFM2) is a member of the GTP-binding elongation factor family. Mitochondrial GTPase that mediates the disassembly of ribosomes from messenger RNA at the termination of mitochondrial protein biosynthesis. But it is not involved in the GTP-dependent ribosomal translocation step during translation elongation. GFM2 is widely expressed in many tissues and localizes to the mitochondrion. The role of GFM2 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 known transcript variants encoding distinct isoforms.
AA Sequence	MLTNLRIFAMSHQTIPSVYINNICCYKIRASLKRLKPHVPLGRNCSSLPGLIGNDIKSLH SIINP PIAKIRNIGIMAHIDAGKTTTTERILYYSGYTRSLGDVDDGDTVTDFMAQERER GITIQSAAVTF DWKGYRVNLIDTPGHVDFTLEVERCLRVLDGAVAVFDASAGVEAQT LTVWRQADKHNIPRICFLN KMDKTGASFKYAVESIREKLKAKPLLLQLPIGEAKTFKG VVDVVMKEKLLWNCNSNDGKDFERKP LLEMNDPELLKETTEARNALIEQVADLDDE FADLVLEEFSENFDLLPAEKLQTAIHRVTLAQTAV PVLCGSALKNKGIQPLLDAVTMY

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	LPSPEERNYEFLQWYKDDLCALAFKVLHDKQRGPLVFMRIYS GTIKPQLAIHNINGN CTERISRLLLPFADQHVEIPSLTAGNIALTVGLKHTATGDTIVSSKSSAL AAARRAERE GEKKHRQNNEAERLLLAGVEIPEPVFFCTIEPPSLSKQPDLEHALKCLQREDPSLK V RLDPDSGQTVLCGMGELHIEIIHDRIKREYGLETYLGPLQVAYRETILNSVRATDTLDR TLGDK RHLVTVEVEARPIETSSVMPVIEFEYAESINEGLLKVSQEAIENGIHSACLQG PLLGSPIQDVAI TLHSLTIHPGTSTTMISACVSRCVQKALKKADKQVLEPLMNLEVTV ARDYLSPVLADLAQRRGNI QEIQTRQDNKVVIGFVPLAEIMGYSTVLRTLTSGSATFA LELSTYQAMNPQDQNTLLNRRSGLTV DHHHHHH
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

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;
Gene ID	84340
mRNA Refseq	NM_032380
Protein Refseq	NP_115756
MIM	606544

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UniProt ID	Q969S9
Chromosome Location	5q13
Function	GTP binding; GTPase activity; nucleotide binding; NOT translation elongation factor activity;

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