

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 MLTNLRIFAMSHQTIPSVYINNCCYKIRASLKRRLKPHVPLGRNCSSLPGLIGNDIKSLH
SIINP PIAKIRNIGIMAHIDAGKTTTTTERILYYSYTRSLGDVDDGDTVDFMAQERER
GITIQSAAVTF DWKGYRVNLIDTPGHVDFLEVERCLRVLGDGAVAVFDASAGVEAQT
LTVWRQADKHNIPRICFLN KMDKTGASFYAVESIREKLRKAKPLLLQLPIGEAKTFKG
VVDVVMKEKLLWNCNSNDGKDFERKP LLEMNDPELLKETTEARNALIEQVADLDDE
FADLVLEEFSENFDLLPAEKLQTAIHRVTLAQTAV PVLCGSALKNKGIQPLLDVAVTMY

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LPSPEERNYEFLLQWYKDDLALAFKVLHDKQRGPLVFMRIYS GTIKPQLAIHNINGN
 CTERISRLLLLPFADQHVEIPSLTAGNIALTVGLKHTATGDTIVSSKSSAL AAARRAERE
 GEKKHRQNNEAERLLLAGVEIPEPVFFCTIEPPSLSKQPDLEHALKCLQREDPSLK V
 RLDPDSGQTVLCGMGELHIEIHDRIKREYGLETYLGPLQVAYRETILNSVRATDTLDR
 TLGDK RHLVTVEVEARPIETSSVMPVIEFEYAESINEGLLKVSQEIENGIHSACLQG
 PLLGSPIQDVAI TLHSLTIHPGTSTTMISACVSRVQKALKKADKQVLEPLMNLEVTV
 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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