

Product datasheet for **TP305962**

GFM2 (NM_032380) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human G elongation factor, mitochondrial 2 (GFM2), nuclear gene encoding mitochondrial protein, transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205962 protein sequence Red =Cloning site Green =Tags(s)

MLTNLRIFAMSHQTIPSVYINNCCYKIRASLKRKLKPHVPLGRNCSSLPGLIGNDIKSIHSIINPPIAKI
RNIGIMAHIDAGKTTTTTERILYYSGYTRSLGDVDDGDTVTDMAQERERGITIQAAVTFDWKGYRVNLI
DTPGHVDFTLEVERCLRVLGDGAVAVFDASAGVEAQTLTVWRQADKHNIPRICFLNKMMDKTGASFKYAVES
IREKLKAKPLLLQLPIGEAKTFKGVDVVMKEKLLWNCNSNDGKDFERKPLLEMNDPELLKETTEARNAL
IEQVADLDDEFADLVLEEFSENFDLLPAEKLQTAIHRVTLAQTAVPVLGCSALKNKGIQPLLDVAVTMYP
SPEERNYEFQWYKDDLALAFKVLHDKQRGPLVFMRIYSGTIKPLAIHNINGNCTERISRLLPFADQ
HVEIHSLTAGNIALTVGLKHTATGDTIVSSKSSALAAARRAREGEKKHRQNNEAERLLLAGEIPEPVF
FCTIEPPSLSKQPDLEHALKCLQREDPSLVRLDPDSGQTVLCGMGELHIEIHDRIKREYGLETYLGPL
QVAYRETILNSVRATDTLDRTLGDKRHLVTVEVGARPIETSSVMPVIEYAESINEGLLKVSQEIENGHI
SACLQGPLLGSPIQDVAITLHSLTIHPGTSTTMISACVSRVQKALKKADKQVLEPLMNLEVTVARDYLS
PVLADLAQRRGNIQEIQTRQDNKVVIGFVPLAGIMGYSTVLRLTSGSATFALELSTYQAMNPQDQNTLL
NRRSGLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

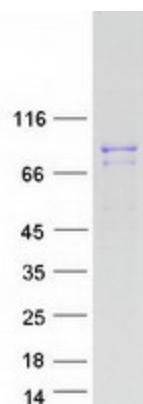
Tag:	C-Myc/DDK
Predicted MW:	86.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_115756
Locus ID:	84340
UniProt ID:	Q969S9
RefSeq Size:	3264
Cytogenetics:	5q13.3
RefSeq ORF:	2331
Synonyms:	EF-G2mt; EFG2; hEFG2; mEF-G 2; MRRF2; MST027; MSTP027; RRF; RRF2; RRF2mt
Summary:	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. [provided by RefSeq, Jul 2013]

Product images:



Coomassie blue staining of purified GFM2 protein (Cat# TP305962). The protein was produced from HEK293T cells transfected with GFM2 cDNA clone (Cat# [RC205962]) using MegaTran 2.0 (Cat# [TT210002]).