

## Product datasheet for PH308239

### GFM1 (NM\_024996) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GFM1 MS Standard C13 and N15-labeled recombinant protein (NP_079272)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208239
Predicted MW:	83.5 kDa
Protein Sequence:	>RC208239 protein sequence Red=Cloning site Green=Tags(s)

MRLLGAAVAALGRGRAPASLGWQRKQVNWKACRWSSSGVIPNEKIRNIGISAHIDS GKTTLTERVLYYT  
GRIAKMHEVKGKDGVGAVMDSMELERQGITIQSAATYTMWKDVNINI IDTPGHVDFTIEVERALRVLDG  
AVLVLCVGGVQCQTMTVNRQMKRYNVPFLTFINKLDRMGSNPARALQQMRSKLNHNAAFMQIPMGLEGN  
FKGIVDLIEERAIYFDGDFGQIVRYGEIPAELRAAATDHRQELIECVANSDEQLGEMFLEEKIPSIDLK  
LAIRRATLKRSFPTVFLGSALKNKGVQPLLDAVLEYLPNPSEVQNYAILNKEDDSKEKTKILMNSSRDNS  
HPFVGLAFKLEVGRFGQLTYVRSYQGELKKGDTIYNTRTRKKVRLQRLARMHADMMEDVEEVYAGDICAL  
FGIDCASGDTFTDKANSGLSMESIHVPDPVISIAMKPSNKNDLEKFSKGIGRFTREDPTFKVYFDTENKE  
TVISGMGELHLEIYAQRLEREYGCPCITGKPKVAFRETITAPVPFDFTHKKQSGGAGQYGVIGVLEPLD  
PEDYTKLEFSDETFSGNSIPKQFVPAVEKGFLDACEKGPLSGHKL SGLRFVLQDGAHMMVDSNEISFIRAG  
EGALKQALANATLCILEPIMAVEVVAPNEFQGGQVIAGINRRHGVITGQDGVEDYFTLYADVPLNDMFGYS  
TELRSCTEGKGEYTMESRYQPCLPSTQEDVINKYLEATGQLPVKKGKAKN

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_079272</a></u>

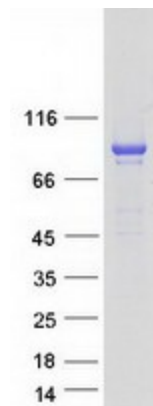


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RefSeq Size:	3468
RefSeq ORF:	2253
Synonyms:	COXPD1; EFG; EFG1; EFGM; EGF1; GFM; hEFG1; mtEF-G1
Locus ID:	85476
UniProt ID:	<a href="#">Q96RP9</a> , <a href="#">E5KND5</a>
Cytogenetics:	3q25.32

**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. Its role in the regulation of normal mitochondrial function and in different disease states attributed to mitochondrial dysfunction is not known. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified GFM1 protein (Cat# [TP308239]). The protein was produced from HEK293T cells transfected with GFM1 cDNA clone (Cat# [RC208239]) using MegaTran 2.0 (Cat# [TT210002]).