

## Product datasheet for PH305962

### GFM2 (NM\_032380) Human Mass Spec Standard

#### Product data:

|                                       |                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                         | Mass Spec Standards                                                                                                                |
| Description:                          | GFM2 MS Standard C13 and N15-labeled recombinant protein (NP_115756)                                                               |
| Species:                              | Human                                                                                                                              |
| Expression Host:                      | HEK293                                                                                                                             |
| Expression cDNA Clone or AA Sequence: | RC205962                                                                                                                           |
| Predicted MW:                         | 86.2 kDa                                                                                                                           |
| Protein Sequence:                     | >RC205962 protein sequence<br><span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s) |

MLTNLRIFAMSHQTIPSVYINNICCCKIRASLKRKLPKPHVPLGRNCSSLPGLIGNDIKSIHSIINPPIAKI  
 RNIGIMAHIDAGKTTTTTERILYYSGYTRSLGDVDDGDTVDFMAQERERGITIQSAAVTFDWKGYRVNLI  
 DTPGHVDFTLVERCLRVLDGAVAVFDASAGVEAQTLTVWRQADKHNIPRICFLNKMDKTGASFYAVES  
 IREKLKAKPLLLQLPIGEAKTFKGVVDVVMKEKLLWNCNSNDGKDFERKPLLEMNDPELLKETTEARNAL  
 IEQVADLDDEFADLVLEEFSENFDLLPAEKLQTAIHRVTLAQTAVPVLGSAKKNKGIQPLLDVATMYLP  
 SPEERNYEFLQWKDDLALAFKVLHDKQRGPLVFMRIYSGTIKPLAIHNINGNCTERISRLLPFADQ  
 HVEIHSLTAGNIALTVGLKHTATGDTIVSSKSSALAAARRAREGEKKHRQNEAERLLLAGVEIPEPVF  
 FCTIEPPSLSKQPDLEHALKCLQREDPSLKVRLDPDSGQTVLCGMGELHIEIIHDRIKREYGLETYLGPL  
 QVAYRETIILNSVRATDRTLDRTLGDKRHLVTVEVGARPIETSSVMPVIEYAESINEGLLKVSQEIENGIH  
 SACLQGPLLGSPIQDVAITLHSLTIHPGTSTTMISACVSRVQKALKKADKQVLEPLMNLEVTVARDYLS  
 PVLADLAQRRGNIQEIQTRQDNKVVIGFVPLAGIMGYSTVLRRTLSGSATFALELSTYQAMNPQDQNTLL  
 NRRSGLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

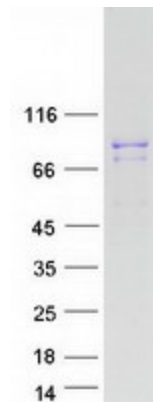
|                  |                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:          | <a href="#">NP_115756</a>                                                                                                                                                |



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|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq Size:  | 3264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| RefSeq ORF:   | 849                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Synonyms:     | EF-G2mt; EFG2; hEFG2; mEF-G 2; MRRF2; MST027; MSTP027; RRF; RRF2; RRF2mt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Locus ID:     | 84340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| UniProt ID:   | <a href="#">Q969S9</a> , <a href="#">A0A024RAK1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Cytogenetics: | 5q13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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]).