

Product datasheet for **SC337509**

GFM2 (NM_001281302) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFM2 (NM_001281302) Human Untagged Clone
Tag:	Tag Free
Symbol:	GFM2
Synonyms:	EF-G2mt; EFG2; hEFG2; mEF-G 2; MRRF2; MST027; MSTP027; RRF; RRF2; RRF2mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001281302, the custom clone sequence may differ by one or more nucleotides

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ATGAAAAGGGAATGGATTCAAGGCCAGGCATGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCG
AGACAGTAACAGTTTGGAGGATCAAGATGTTGACCAACTTGAGGATATTTGCAATGAGTCATCAGACAAT
ACCCAGTGTGTATTAATAATATATGCTGCTATAAAATAAGAGCAAGTTAAAAAGATTAAAGCCACAT
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TCATCAATCCTCCCATAGCTAAAATCCGTAATATTGGAATTATGGCTCATATTGATGCAGGCAAAACTAC
CACCACAGAAAGAATATTGTACTATTCCGGATATACAAGATCACTGGGAGATGTTGATGATGGAGACACA
GTGACAGATTTTATGGCCCAAGAGCGAGAAAGAGGCATTACTATTCAATCAGCTGCTGTTACATTTGATT
GGAAAGGTTATAGAGTCAATCTAATTGATACACAGGTCATGTGGACTTTACCTTGGAGGTTGAGCGGTG
CCTAAGAGTGTGGATGGTGCAGTGGCTGTATTTGATGCCTCTGCTGGTGTAGAGGCCAGACTCTCACA
GTATGGAGGCAAGCTGATAAACACAATATACCTCGAATCTGTTTTTAAACAAGATGGACAAAACCTGGAG
CAAGCTTTAAGTATGCAGTTGAAAGCATCAGAGAGAAGTTAAAGGCAAAGCCTTTGCTTTTACAGTTACC
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GGAACATGCGTTGAAATGTCTTCAGCGTGAAGATCCAGTTTGAAGTGAGGCTAGATCTGACTCTGGA
CAAACCTGTTCTGTGGTATGGGGAGTTACATATAGAGATTATCATGATCGAATCAAGAGGGAATATG
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TCAGGAAATTCAGACTCGCCAGGACAACAAAGTTGTTATTGGATTGTTCCCTTAGCAGAAATTATGGGT
TATTCAACTGTGCTTCGAACGCTAACATCAGGCTCAGCTACTTTTGCCTTAGAAGTATCTACTTATCAAG
CCATGAATCCTCAAGATCAAAATACACTGCTCAACCGGAGAAGTGGTTTGACCTAA
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001281302

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001281302.1, NP_001268231.1</u>
RefSeq Size:	3382 bp
RefSeq ORF:	2436 bp
Locus ID:	84340
UniProt ID:	<u>Q969S9</u>
Cytogenetics:	5q13.3
Gene 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] Transcript Variant: This variant (4) represents the longest transcript and encodes the longest isoform (4).