

Product datasheet for **MC228917**

Gfm2 (NM_001271465) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfm2 (NM_001271465) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gfm2
Synonyms:	6530419G12Rik; A930009M04Rik; EF-G2mt; EFG2; MST027; RRF2mt
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228917 representing NM_001271465
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTACCAAATGGAGGATTTTGCAGTGAATCATCAGAGAACGTTTCAGTGTGCACCTTAATACCATGT
 GTTACTGCAAAAATAAAGCAAATTTAAAAAGATTAAGACTCAGCTGCCTCTTACAAGAACTACAGTTC
 TGCACCAGCAGGAAGTGATGTCAAGTCTCTTCATTCCGTCATTAACCCTCCTGTGGCCAAAATTCGTAAT
 ATTGGAATTATGGCACATATTGATGCAGGCAAAACCACCACCACAGAGAGAATCCTGTACTATTCTGGAT
 ACACAAGATCATTGGGAGATGTCGATGATGGAGACACAGTGACGGATTTTCATGGCTCAAGAGCGAGAAAAG
 GGGCATTACCATCCAGTCAGCAGCTGTGACTCTCGACTGGAAAGGGTATAGAGTCAATCTGATTGACT
 CCAGGTCACGTAGACTTCACTCTGGAGGTCGAGCGCTGCTTGAGGGTGTGGACGGTGGCGTGGCCGTGT
 TTGACGCCTCTGCTGGTGTAGAGGCCAGACTCTCACTGTATGGAGGCAAGCTGACAAACAAAAATACC
 CCGGATCTGCTTTTTAAACAAGATGGACAAGACTGGAGCAAGTTTTAACTATGCGGTTGAAAGCATCCGG
 GAGAAGTTAAAGGCAAAGCCCCTGATTTACAGCTGCCAATTGGTGAAGCCAGAATTTCCAAGGAGTGG
 TGGATGTCGTAACAAGAAAACTCCTTTGGAATTCTAACTCTGACGATGGAAAAGACTTCGAGAGGAT
 GCCCTCTCAGAAGCGAGTGATCGGAACTGCTAAAGGAGACAATTGAAGCAAGGAACTCCTTAATTGAA
 CAAGTTGCAGACTTAGATGATGAGTTTGTGACTTGGTTTTAGGTGAATTTAGTGAAGAACTTTGATTTAG
 TACCAGCTGAAAAGTTACAGGCTGCAGTACACAGGGTGACACTGGCACAGGCTGCAGTGCCTGTGCTGTG
 TGGGAGTGCCTTGAAGAACAAGGCGTGACGCCCTGCTGGATGCGGTGACCACTTACCTGCCGTACCC
 GAGGAGCGGAGGACCGCTTCTGCAGTGGTATGAGGGTGACTTGTGTCACTAGCGTTTAAAGTACTAC
 ATGACAAAACAGCGAGGACCCCTGGTTTTCTGCGCATTTACTCGGGAACACTGACGCCTCAGCTGGCTGT
 CCACAACATTAATAGAACTGCACGGAAAGAATGAGTCGCTGCTTTTGCCATTTGCTGACCAACATGTA
 GAAATCCCTTCCCTGACTGCTGGAACATTGCTTTGACAGTTGGGCTTAAACAACTGCCACTGGAGACA
 CCATAGTCTCGTCCAAGTCCAGCGCATTAGCTGCAGCTCGCAGAGCCGGACGAGGAGAAAGGGAGCATGG
 AAAGAAGAGAGAGGCCGAGAGTCTGCTGTTGGCCGGGTGGAGGTCCCAGAGCCTGTCTTCTTGACACC
 ATAGAGCCCCGTGAGTCGTAAGCAGCCAGATTTAGATCATGCCTTGAACGCCTTACAGCGGAAGATC
 CCAGTTTGAAGTGAACTCGATCCTGACTCTGGACAACTGCTCCTGTGTGGAATGGGGGAGTTGCATAT
 TGAGATTATTCATGACCGTATCAAGAGGGAGTATGGCCTAGAGACCTATCTAGGGCCTCTGCAGGTGGCA
 TACCGGAAACCATCTTAAACTCAGTTCGCGCCACAGACACCCTCGATAGGGTGTGGAGACAAGCGGC
 ACTTGGTGAGTGGGAGCTGGAAGTCCGCGCAGCAGAAGAGCCCTGTGCTGTGGCCAAGATCGAGTATGC
 TACTGTGTGGGTGAAGACCTGCTGCAGGCCTCTCGGGAGGCCATTGAAAGTGCCGTCCACAGTGCATGC
 CTCCAGGGACCTCTGCTCGGATCCCCAGTCCAGGATGTGGCAATGACGTTGCACTCACTGATGATTCACC
 CTGGCACCTCCACAATATGGTCACTGCCTGCATCTCACGGTGTATGCAGAAGGCCCTGAAGAAAGCTGA
 CAAACAGGTGCTGGAACCTCTGATGAGTCTCGAGGTACAGTGCAGGGGAGTACCTCAGCCCTGCTCTG
 GCAGACTTGGCACAAAGAAGAGGGAACATTCAGGAAATCCAGACTCGCCAAGACAACAGAGTTGTTCTAG
 GATTCGTTCTCTAGCAGAGATTATGGGATTTCAACTGTGCTTCGAACCTGACATCTGGCTCAGCTAC
 TTTTGCCTTAGAACTGTCTACTATCAAGCCATGAGTCCTCAAGACCAGAGTGTCTACTCAACCAGAGA
 AGTGGCTTGGCCCATGTGCTA**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001271465
Insert Size: 2334 bp

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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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_001271465.1, NP_001258394.1</u>
RefSeq Size:	3192 bp
RefSeq ORF:	2334 bp
Locus ID:	320806
UniProt ID:	<u>Q8R2Q4</u>
Cytogenetics:	13 D1
Gene Summary:	<p>Mitochondrial GTPase that mediates the disassembly of ribosomes from messenger RNA at the termination of mitochondrial protein biosynthesis. Acts in collaboration with MRRF. GTP hydrolysis follows the ribosome disassembly and probably occurs on the ribosome large subunit. Not involved in the GTP-dependent ribosomal translocation step during translation elongation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (4) is shorter than isoform 1.</p>