

Product datasheet for **MC228861**

Gfm2 (NM_001271464) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfm2 (NM_001271464) 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: >MC228861 representing NM_001271464
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCCACAAATGGAGGATTTTGCAGTGAATCATCAGAGAACGTTTCAGTGTGCACCTTAATACCATGT
 GTTACTGCAAAATAAAAGCAAATTTAAAAAGATTAAGACTCAGCTGCCTCTTACAAGAACTACAGTTC
 TGCACCAGGCATAGCAGGAAGTGTGCAAGTCTCTTATTCCGTCATTAAACCTCCTGTGGCCAAAATT
 CGTAATATTGGAATTATGGCACATATTGATGCAGGCAAAACCACCACCACAGAGAGAATCCTGTACTATT
 CTGGATACACAAGATCATTGGGAGATGTCGATGATGGAGACACAGTGACGGATTTTCATGGCTCAAGAGCG
 AGAAAGGGGCATTACCATCCAGTCAGCAGCTGTGACTCTCGACTGGAAAGGGTATAGAGTCAATCTGATT
 GATACTCCAGGTCACGTAGACTTCACTCTGGAGGTCGAGCGCTGCTTGAGGGTGTGGACGGTCCGGTGG
 CCGTGTGGTACGCTCTGCTGGTGTAGAGGCCAGACTCTCACTGTATGGAGGCAAGCTGACAAACACAA
 AATACCCCGGATCTGCTTTTTAAACAAGATGGACAAGACTGGAGCAAGTTTTAACTATGCGGTTGAAAGC
 ATCCGGGAGAAGTTAAAGGCAAAGCCCCTGATTTTACAGCTGCCAATTGGTGAAGCCAGAAGCTTTCCAAG
 GAGTGGTGGATGTCGTAACAAAAGAAAACCTCTTTGGAATTCTAACTCTGACGATGGAAGAACTTCGA
 GAGGATGCCCTCTCAGAAGCGAGTGTACGGAACTGCTAAAGGAGACAATTGAAGCAAGGAACTCCTTA
 ATTGAACAATTACAGGCTGCAGTACACAGGGTGCAGCTGGCACAGGCTGCAGTGCCTGTGCTGTGTGGGA
 GTGCCCTGAAGAACAAGGGCGTGCAGCCCTGCTGGATGCGGTGACCACTTACCTGCCGTACCCGAGGA
 GCGCGAGGACCGCTTCTGCAGTGGTATGAGGGTACTTGTGTGCACTAGCGTTTAAAGTACTACATGAC
 AAACAGCGAGGACCCCTGGTTTTCTGCGCATTTACTCGGGAACACTGACGCCTCAGCTGGCTGTCCACA
 ACATTAATAGAACTGCACGAAAGAATGAGTCGTCTGCTTTTGCCATTTGCTGACCAACATGTAGAAAT
 CCCTTCCCTGACTGCTGGAACATTGCTTTGACAGTTGGGCTTAAACAACTGCCACTGGAGACACCATA
 GTCTCGTCCAAGTCCAGCGCATTAGCTGCAGCTCGCAGAGCCGGACGAGGAGAAAGGGAGCATGGAAGA
 AGAGAGAGGCCGAGAGTCTGCTGTTGGCCGGGTGGAGGTCCCAGAGCCTGTCTTCTGCACCATAGA
 GCCCCCGTCACTCGTAAGCAGCCAGATTTAGATCATGCCTTGAACGCCTTCAGCGCAAGATCCCAGT
 TTGAAAGTGAACCTCGATCCTGACTCTGGACAACTGTCTGTGGAATGGGGGAGTTGCATATTGAGA
 TTATTCATGACCGTATCAAGAGGGAGTATGGCCTAGAGACCTATCTAGGGCCTCTGCAGGTGGCATAACCG
 GAAACCATCTTAACTCAGTTCGCGCCACAGACACCCTCGATAGGGTGTGGAGACAAGCGGCACCTG
 GTGAGTGGGAGCTGGAAGTCCGGCCAGCAGAAGAGCCCTGTGCTGTGGCAAGATCGAGTATGCTGACT
 GTGTGGGTGAAGACCTGCTGCAGGCCTCTCGGGAGGCCATTGAAAGTGGCGTCCACAGTGCATGCCTCCA
 GGGACCTCTGCTCGGATCCCCAGTCCAGGATGTGGCAATGACGTTGCACTCACTGATGATTCACCCTGGC
 ACCTCCACAACATATGGTCACTGCCTGCATCTCACGGTGTATGCAGAAGGCCCTGAAGAAAGCTGACAAAC
 AGGTGCTGGAACCTCTGATGAGTCTCGAGGTCACAGTGCAGGGAGTACCTCAGCCCTGTCTGGCAGA
 CTTGGCACAAGAAGAGGGAACATTGAGAAATCCAGACTCGCCAAGACAACAGAGTTGTTCTAGGATTC
 GTTCTCTAGCAGAGATTATGGGATTTCAACTGTGCTTCGAACTCTGACATCTGGCTCAGCTACTTTTG
 CCTTAGAACTGTCTACTTATCAAGCCATGAGTCTCAAGACCAGAGTGTCTACTCAACCAGAGAAGTGG
 CTTGGCCCATGTGCTA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001271464
Insert Size: 2259 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_001271464.1</u> , <u>NP_001258393.1</u>
RefSeq Size:	3084 bp
RefSeq ORF:	2259 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 (4) uses an alternate splice site in the 5' UTR and lacks an in-frame exon, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>