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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC228861 representing NM_001271464
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCACCAAATGGAGGATTTTTGCAGTGAATCATCAGAGAACGTTCAGTGTGCACCTTAATACCATGT
GTTACTGCAAAATAAAAGCAAATTTAAAAAGATTAAAGACTCAGCTGCCTCTTACAAGAAACTACAGTTC
TGCACCAGGCATAGCAGGAAGTGATGTCAAGTCTCTTCATTCCGTCATTAACCCTCCTGTGGCCAAAATT
CGTAATATTGGAATTATGGCACATATTGATGCAGGCAAAACCACCACCACAGAGAGAATCCTGTACTATT
CTGGATACACAAGATCATTGGGAGATGTCGATGATGGAGACACAGTGACGGATTTCATGGCTCAAGAGCG
AGAAAGGGGCATTACCATCCAGTCAGCAGCTGTGACTCTCGACTGGAAAGGGTATAGAGTCAATCTGATT
GATACTCCAGGTCACGTAGACTTCACTCTGGAGGTCGAGCGCTGCTTGAGGGTGTTGGACGGTGCGGTGG
CCGTGTTTGACGCCTCTGCTGGTGTAGAGGCCCAGACTCTCACTGTATGGAGGCAAGCTGACAAACACAA
AATACCCCGGATCTGCTTTTTAAACAAGATGGACAAGACTGGAGCAAGTTTTAACTATGCGGTTGAAAGC
ATCCGGGAGAAGTTAAAGGCAAAGCCCCTGATTTTACAGCTGCCAATTGGTGAAGCCAGAACTTTCCAAG
GAGTGGTGGATGTCGTAAACAAAGAAAAACTCCTTTGGAATTCTAACTCTGACGATGGAAAAGACTTCGA
GAGGATGCCCCTCTCAGAAGCGAGTGATCGGGAACTGCTAAAGGAGACAATTGAAGCAAGGAACTCCTTA
ATTGAACAATTACAGGCTGCAGTACACAGGGTGACACTGGCACAGGCTGCAGTGCCTGTGCTGTGTGGGA
GTGCCTTGAAGAACAAGGGCGTGCAGCCCCTGCTGGATGCGGTGACCACTTACCTGCCGTCACCCGAGGA
GCGCGAGGACCGCTTTCTGCAGTGGTATGAGGGTGACTTGTGTGCACTAGCGTTTAAAGTACTACATGAC
AAACAGCGAGGACCCCTGGTTTTCCTGCGCATTTACTCGGGAACACTGACGCCTCAGCTGGCTGTCCACA
ACATTAATAGAAACTGCACGGAAAGAATGAGTCGTCTGCTTTTGCCATTTGCTGACCAACATGTAGAAAT
CCCTTCCCTGACTGCTGGAAACATTGCTTTGACAGTTGGGCTTAAACAAACTGCCACTGGAGACACCATA
GTCTCGTCCAAGTCCAGCGCATTAGCTGCAGCTCGCAGAGCCGGACGAGGAGAAAGGGAGCATGGAAAGA
AGAGAGAGGCCGAGAGTCTGCTGTTGGCCGGGGTGGAGGTCCCAGAGCCTGTCTTCTTCTGCACCATAGA
GCCCCCGTCAGTCGCTAAGCAGCCAGATTTAGATCATGCCTTGGAACGCCTTCAGCGCGAAGATCCCAGT
TTGAAAGTGAAACTCGATCCTGACTCTGGACAAACTGTCCTGTGTGGAATGGGGGAGTTGCATATTGAGA
TTATTCATGACCGTATCAAGAGGGAGTATGGCCTAGAGACCTATCTAGGGCCTCTGCAGGTGGCATACCG
GGAAACCATCTTAAACTCAGTTCGCGCCACAGACACCCTCGATAGGGTGCTTGGAGACAAGCGGCACTTG
GTGAGTGCGGAGCTGGAAGTCCGGCCAGCAGAAGAGCCCTGTGCTGTGGCCAAGATCGAGTATGCTGACT
GTGTGGGTGAAGACCTGCTGCAGGCCTCTCGGGAGGCCATTGAAAGTGCCGTCCACAGTGCATGCCTCCA
GGGACCTCTGCTCGGATCCCCAGTCCAGGATGTGGCAATGACGTTGCACTCACTGATGATTCACCCTGGC
ACCTCCACAACTATGGTCACTGCCTGCATCTCACGGTGTATGCAGAAGGCCCTGAAGAAAGCTGACAAAC
AGGTGCTGGAACCTCTGATGAGTCTCGAGGTCACAGTGAGCAGGGAGTACCTCAGCCCTGTCCTGGCAGA
CTTGGCACAAAGAAGAGGGAACATTCAGGAAATCCAGACTCGCCAAGACAACAGAGTTGTTCTAGGATTC
GTTCCTCTAGCAGAGATTATGGGATATTCAACTGTGCTTCGAACTCTGACATCTGGCTCAGCTACTTTTG
CCTTAGAACTGTCTACTTATCAAGCCATGAGTCCTCAAGACCAGAGTGCTCTACTCAACCAGAGAAGTGG
CTTGGCCCATGTGCTATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271464

Insert Size: 2259 bp

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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:	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:	NM_001271464.1, NP_001258393.1
RefSeq Size:	3084 bp
RefSeq ORF:	2259 bp
Locus ID:	320806
UniProt ID:	Q8R2Q4
Cytogenetics:	13 D1
Gene Summary:	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] 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.

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