

Product datasheet for **MR231132**

Gfm2 (NM_001271463) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfm2 (NM_001271463) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR231132 representing NM_001271463
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTACCAAAATGGAGGATTTTGCAGTGAATCATCAGAGAACGTTTCAGTGTGCACCTTAATACCATGT
GTTACTGCAAAATAAAAGCAAATTTAAAAAGATTAAGACTCAGCTGCCTTTACAAGAACTACAGTTC
TGCACCAGGCATAGCAGGAAGTGTGCAAGTCTCTTATTCCGTCATTAAACCTCCTGTGGCCAAAATT
CGTAATATTGGAATTATGGCACATATTGATGCAGGCAAAACCACCACCACAGAGAGAATCCTGTACTATT
CTGGATACACAAGATCATTGGGAGATGTCGATGATGGAGACACAGTGACGGATTTTCATGGCTCAAGAGCG
AGAAAGGGGCATTACCATCCAGTCAGCAGCTGTGACTCTCGACTGGAAAGGGTATAGAGTCAATCTGATT
GATACTCCAGGTCAGTAGACTTCACTCTGGAGGTCGAGCGCTGCTTGAGGGTGTGGACGGTCCGGTGG
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AATACCCCGGATCTGCTTTTTAAACAAGATGGACAAGACTGGAGCAAGTTTTAACTATGCGGTTGAAAGC
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GAGTGGTGGATGTCGTAACAAAAGAAAACCTCTTTGGAATTCTAACTCTGACGATGGAAGAAAGCTTCGA
GAGGATGCCCTCTCAGAAGCGAGTGTACGGAACTGCTAAAGGAGACAATTGAAGCAAGGAACTCCTTA
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GCTGTGTGGGAGTGCCTTGAAGAACAAGGGCGTGCAGCCCCTGCTGGATGCGGTGACCACTTACCTGCCG
TCACCCGAGGAGCGGAGGACCGCTTCTGCAGTGGTATGAGGGTGACTTGTGTGCACTAGCGTTTTAAAG
TACTACATGACAAACAGCGAGGACCCCTGGTTTTCTGCGCATTACTCGGGAACACTGACGCTCAGCT
GGCTGTCCACAACATTAATAGAACTGCACGGAAAGAATGAGTCGCTGCTTTTTGCCATTTGCTGACCAA
CATGTAGAAATCCCTTCCTGACTGCTGGAACATTGCTTTGACAGTTGGGCTTAAACAAAAGTCCACTG
GAGACACCATAGTCTCGTCCAAGTCCAGCGCATTAGCTGCAGCTCGCAGAGCCGACGAGGAGAAAGGGA
GCATGGAAGAAGAGAGAGGCGGAGAGTCTGCTGTTGGCCGGGTGGAGGTCCCAGAGCCTGTCTTCTTC
TGCACCATAGAGCCCCGTCAGTCGCTAAGCAGCCAGATTTAGATCATGCCTTGAACGCCTTCAGCGCG
AAGATCCAGTTTGAAAGTGAACTCGATCCTGACTCTGGACAACTGTCCTGTGTGGAATGGGGGAGTT
GCATATTGAGATTATTCATGACCGTATCAAGAGGGAGTATGGCCTAGAGACCTATCTAGGCCTCTGCAG
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TTCACCTGGCACCTCCACAACATGGTCACTGCCTGCATCTCACGGTGTATGCAGAAGGCCCTGAAGAA
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TTCTAGGATTCGTTCTCTAGCAGAGATTATGGGATATCAACTGTGCTTCGAACTCTGACATCTGGCTC
AGCTACTTTTGCCTTAGAACTGTCTACTTATCAAGCCATGAGTCCTCAAGACCAGAGTGTCTACTCAAC
CAGAGAAGTGGCTTGGCCCATGTGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231132 representing NM_001271463
Red=Cloning site Green=Tags(s)

MFTKWRIFAVNHQRTFSVHLNTMCYCKIKANLKRKLTQLPLTRNYSSAPGIAGSDVKSLHSVINPPVAKI
RNIGIMAHIDAGKTTTTTERILYYSGYTRSLGDVDDGDTVDFMAQERERGITIQSAAVTLDWKGYRVNLI
DTPGHVDFTLVERCLRVLDGAVAVFDASAGVEAQTLTVWRQADKHKIPRICFLNKMDKTGASFNYAVES
IREKLLKAKPLILQLPIGEARTFQGVVDVVNKEKLLWNSNSDDGKDFERMPLSEASDRELLKETIEARNSL
IEQVADLDDEFADLVLGEFSENFDLVPAEKLQAAVHRVTLAQAAPVVLCGSALKNKGVQPLLDVATTYLP
SPEEREDRFLQWYEGDLCALAFKVLHDKQRGPLVFLRIYSGTLPQLAVHNINRNCTERMSRLLLLPFADQ
HVEIPSLTAGNIALTVGLKQTATGDTIVSSKSSALAAARRAGRGEREHGKKREAESLLLAGVEVPEPVFF
CTIEPPSVAKQPDLDHALERLQREDPSLVKLDPSGQTVLCGMGELHIEIIHDRIKREYGLETYLGPLQ
VAYREILNSVRATDTLDRVLGDKRHLVSAELEVPAEEPCAVAKIEYADCVGEDLLQASREAIESAVHS
ACLQGPLLGSPVQDVAMTLHSLMIHPGTSTTMVTACISRCMQKALKKADKQVLEPLMSLEVTVSREYLS
VLADLAQRRGNIQEIQTRQDNRVVVGFPVLAEMGYSTVLRTLTSGSATFALELSTYQAMSPQDQSALLN
QRSGLAHVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_001271463

ORF Size: 2337 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001271463.1](#), [NP_001258392.1](#)

RefSeq Size: 3165 bp

RefSeq ORF: 2340 bp

Locus ID: 320806

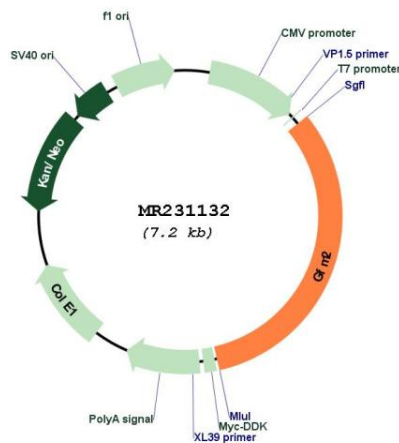
UniProt ID: [Q8R2Q4](#)

Cytogenetics: 13 D1

MW: 86.6 kDa

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]

Product images:



Circular map for MR231132