

Product datasheet for **MC204542**

Gfm1 (NM_138591) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Gfm1
Synonyms:	AW545374; D3Wsul33e; Gfm
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031772
 GACTTTGAGCTCTTCCCGCTCTGCTGCCGGCGCTGAGCACAACCGATCACCTCAGAGCAGGAGCCTTGGA
 AGTGGCTGTCCAGGCTTGCCATGCGGCTGCTGCGGGTCGCCGACGCCCTGGGGCGTGGACCGTTCCCTC
 GGGTCCTGCACTCTGGGCTGGCAGGGGAAGCAGGCTGATTGGAAGACCCGCGATGGTGTTCGTCAGG
 GCCAGTTCCTCAATGAAAAAATACGAAACATTGGGATCTCAGCTCACATTGATTCTGGGAAGACGACGCTA
 ACAGAACGGGTGCTATACTACACTGGCAGGATTGCCACGATGCACGAGGTGAAAGGTAAAGATGGAGTTG
 GCGCTGTCTGATTCCATGGAGCTGGAGAGGCAGCGAGGGATCACGATCCAGTCAGCAGCTACGTATAC
 CATGTGGAAGACATCAATATCAACATCATAGACACGCCAGGCCACGTGGACTTTACCATAGAAGTGGAA
 AGAGCCCTGCGGGTCTGGACGGTGCACTCTTGTCTCTGTGCGGTTGGCGGAGTCCAGTGCCAGACCA
 TGACAGTCAGTCGTGATGAAGCGCTACAACGTTCCCTTTTTAACCTTCATTAACAACTGGACCGAAT
 GGGCTCTAACCCATCCAGGGCCCTCCAACAAATGAGATCTAACTAAATCACAATGCTGCATTGTATCA
 ATACCCATTGGTTTAGAGGGTGATTTTAAGGGAATTATAGACCTCATTGAAGAACGAGCTATTTACTTTG
 ATGGAGACTTTGGTCAGATTGTCCGATATGACGAGATTCCGGCTGGATTGCGGGCCGAGCCGCTGACCA
 CCGGCAGGAGCTCATTGAGTGCCTTGAACCTAGATGAGCAGCTTGGTGAAGTCTTCTGGAAGAAAAG
 ATCCCTCAGTTTCCGACTTAAAGCGAGCAATCCGAGAGCTACTCTGAGTCGATCCTTCACTCTGTAT
 TTTTGGGAAGTGCTTTGAAAAACAAAGGAGTTCAACCTCTTTTGGACGCTGTTTAGAATACCTGCCCAA
 TCCATCTGAGGTCCAGAATTACGCTATACTCAATCAGAATGACTCAAAAGAGAAGACCAAAATCTTAATG
 AACCCCAAGAGATGATTGCGACCCATTGTAGGCTTGGCTTTTAACTGGAGGGGGCCGCTTTTGGAC
 AGCTGACTTATGTCCGAAATTATCAAGTGAAGTGAAGAAGGGAAGCACCATCTACAACACGAGGACCGG
 GAAGAAAGTGCCTGTCAGCGCTAGTGCATGCACGCCGACATGATGGAGGATGTTGAAGAAATATAT
 GCTGGAGACATCTGTGCTTGTGGCATTGACTGTGCAAGTGGAGATACATTCAAAACAAAGATAACA
 GTGACCTTTCTATGGAATCGATTATGTTCTGAGCCTGTCTTCAATAGCAATGAGGCCTTCTAACAA
 GAATGATCTGGAGAAATTTTCAAAGGTATTGGCAGGTTTACACGGGAAGACCCACATTTAAAGTCCAC
 TTTGACCTGAGAGCAAGGAGACCATTTGTGTGAGGATGGGAGAGCTGCACCTGGAATCTATGCTCAGA
 GAATGGAGAGAGAATATGGCTGCCCTTGTATCAGAGGAAACCCAAAGTAGCCTTTAGAGAGACCATTTG
 TGCCCCAGTGCCGTTTGTATTTACACATAAAAAGCAGTCGGGTGGTGCCGGCCAGTTTGGAAAAGTAATA
 GGAGTGCTGGAGCCCTTGCCCCAGAGGACTACACGAAGTTGGAGTTTCTGATGAGACATTTGGGTCCA
 ATGTTCCAAAGCAGTTTGTCCCGCTGTTGAAAAGGGGTTTCTGGATGCCTGCGAAAAAGGCCCTCTTTC
 TGGTCAACAAGCTTCTGGGCTACGGTTTGTCTGCAAGATGGAGCACACCATGGTTGATTGCAATGAA
 ATCTCTTTCATCCGAGCTGGAGAAGGTGCTCTTAAACAAGCCTTGCAAAATGGCACACTATGTATTATTG
 AGCCTATTATGTCTGTGGAAGTTATAGCCCCAATGAATCCAGGGAACAGTGTTCGAGGGATTAACCG
 GCGGCATGGAGTGATTACAGGGCAGGACGGCATTGAGGACTACTTCACACTGTATGCAGATGTTCCCTTA
 AATAATATGTTTGGTTATTCCACTGAGCTTAGGTCTTGACAGAGGGAAGGAGAGTACACGATGGAGT
 ACTGACAGTACCAGCCGTGTTCAACATCCACACAGGAAGAGCTCATCAATAAGTATTTGGAAGCTACAGG
 TCAGCTTCCCGTAAAAAAGGGAAGCCAAAGAACTGACTCTCTCACTCAGGATATACTGACTATTTGAC
 TACCACATTGGGGATGATGGAGTCTGCTTGAATGAATTCTGACGCGAGAAACAAATTTAGGAGCCCTG
 CTGGCCACGTTTCAGGAACCTCTGTATGTACGCCAAGGATAACTGTGTATTTAACTGTATTGACTATTT
 TTATTGTTTAGTAAAAGACCTTAAATAAAATTATATTACTGAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_138591

Insert Size: 2256 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).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC031772</u> , <u>AAH31772</u>
RefSeq Size:	2578 bp
RefSeq ORF:	2256 bp
Locus ID:	28030
UniProt ID:	<u>Q8K0D5</u>
Cytogenetics:	3 30.96 cM
Gene Summary:	Mitochondrial GTPase that catalyzes the GTP-dependent ribosomal translocation step during translation elongation. During this step, the ribosome changes from the pre-translocational (PRE) to the post-translocational (POST) state as the newly formed A-site-bound peptidyl-tRNA and P-site-bound deacylated tRNA move to the P and E sites, respectively. Catalyzes the coordinated movement of the two tRNA molecules, the mRNA and conformational changes in the ribosome. Does not mediate the disassembly of ribosomes from messenger RNA at the termination of mitochondrial protein biosynthesis.[UniProtKB/Swiss-Prot Function]