

Product datasheet for **MC208542**

Gfi1 (NM_010278) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfi1 (NM_010278) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gfi1
Synonyms:	AW495828; Gfi-1; Pal-1; Pal1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NM_010278.2
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGCTCATTCTGGTCAAGAGCAAGAAGGCGCACAGCTATCACCAGCCGCTTCTCCGGGGCCGG
 ACTACTCCCTGCGCCTGGAGACCGTGCCTGCGCCGGGCGAGCAGAGGGCGCGCTGTAGTGCAGGCGA
 GTCGAAAATGGAGCCCCGAGAGCGTTTGTCCCGGACTCTCAGCTTACCGAGGCTCCCGACAGGGCTCC
 GCGTCCCCAACAGCTGCGAAGGCAGCGTTTGTGACCCCTGCTCCGAGTTCGAGGACTTTTGGAGGCCCC
 CTTCTCCCTCCGTGTCTCCAGCGTCGGAGAAGTCACTGTGCCGCTCTCTGGACGAAGCCAGCCCTACAC
 GCTGCCTTTCAAGCCCTATGCATGGAGCGGTCTTGTCTGGGTCTGACCTGCGGCACCTGGTGCAGAGCTAT
 CGGCAGTGCAGCGCGCTGGAGCGCAGCGGGCCCTGAGCCTCTTCTGCGAGCGCGCTCGGAGCCGGCC
 GCCCGGCAGCGCGCTACGGCCCCGAGCAGGCTGCGGGCGGAGCCGGTGCGGGACAGCCAGGGAGCTGCGG
 GGTGCGCCGGGGGCCACCAGCGCTGCGGGCCTGGGGCTCTACGGCGACTTCGCGCTGCGGCGCCGGG
 CTGTACGAGCGGCGGAGCACAGCAGCAGCCGGCTGTACCAAGATCATGGCCACGAGCTGCACGCGGACA
 AGAGCGTGGGCGTCAAGGTGGAGTCGGAGCTGCTTTCACCCGCTGCTGCTGGGCGGCGCTCCTACAA
 ATGCATCAAAATGCAGCAAGGTGTTCTCCACACCGCACGGGCTGGAGGTGCACGTGCGCCGGTCCCACAGC
 GGCACAAGACCCTTTGCGTGCAGATGTGCGGCAAGACCTTCGGGCACCGGTGAGCCTGGAGCAACACA
 AGGCAGTGCACCTCCAGGAACGCAGCTTTGACTGTAAGATCTGTGGCAAGAGCTTCAAGAGGTATCCAC
 GCTGTCCACACATCTGCTCATTCACTCGGACACCCGGCCCTATCCCTGTCACTGTGGCAAAAGATTC
 CACCAGAAGTCAGATGAAGAAACACACCTTCATCCACACAGGTGAGAAGCCCCACAAATGCCAGGTGT
 GCGGCAAAGCCTTCAGTCAGAGCTCCAACCTCATCACTCATAGCAGAAAGCACACAGGCTTCAAGCCCTT
 TGGCTGTGACCTGTGTGGAAAGGCTTCCAGAGGAAGGTGGATCTCAGGAGGCACCGAGAGACTCAGCAT
 GGACTCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1296_d12.zip

Restriction Sites: SgfI-MluI

ACCN: NM_010278

Insert Size: 1272 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_010278.2</u> , <u>NP_034408.1</u>
RefSeq Size:	2862 bp
RefSeq ORF:	1272 bp
Locus ID:	14581
UniProt ID:	<u>P70338</u>
Cytogenetics:	5 52.23 cM
Gene Summary:	<p>Transcription repressor essential for hematopoiesis. Functions in a cell-context and development-specific manner. Binds to 5'-TAAATCAC[AT]GCA-3' in the promoter region of a large number of genes. Component of several complexes, including the EHMT2-GFI1-HDAC1, AJUBA-GFI1-HDAC1 and RCOR-GFI-KDM1A-HDAC complexes, that suppress, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. Regulates neutrophil differentiation, promotes proliferation of lymphoid cells, and is required for granulocyte development. Mediates, together with U2AF1L4, the alternative splicing of CD45 and controls T-cell receptor signaling. Regulates the endotoxin-mediated Toll-like receptor (TLR) inflammatory response by antagonizing RELA. Cooperates with CBFA2T2 to regulate ITGB1-dependent neurite growth. Controls cell-cycle progression by repressing CDKNIA/p21 transcription in response to TGFB1 via recruitment of GFI1 by ZBTB17 to the CDKNIA/p21 and CDKNIB promoters. Required for the maintenance of inner ear hair cells.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the shorter isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>