

## Product datasheet for **MC201880**

### Gfi1b (NM\_008114) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gfi1b (NM\_008114) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gfi1b  
**Synonyms:** Gfi-1B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC052654 sequence for NM\_008114  
AAGAGGTAATCCGACTCATAACGTTGACCGAGCCGAGAGCAGTCCCCAGGGACAGTGTGGAGGTTCTGTGG  
CTCTCGGGCAGAAGTAAAGAAGGCACACACTTACCACCAGCCCCGGGCACAGGGTGATGAGCTGTCTGT  
GCCTCCTGCTGTAATTCCTGTGGCAAAAAGAGCATAGCCAGAGTGCCAGCCCTCTTCTCAGCACACCGCTT  
CCAAGCCAGACCTTGGACTGGAACACAATCAAACAGGAGCGGGAGATGTTGCTGAACCAGAGCCTTCCCA  
AGATGGCCTCAGCCCCAGAGGGGCTCTCGTGACACCCCAACCCAGGATGGGGAATCACCCTCTCTGA  
GTCACCCCTTTTACAAGCCAGCTTCTCCTGGGATACCTTGGCCTCCTCTACAGCCACAGCTACACA  
CAGACCCCTCCACCATGCAGTCCGCTTCTGGAGCGCTCCGTGAGGCTGTACGGCAGCCCTCGTGC  
CCAGCACAGAGTCTCCCTTGGACTTCCGCTCCGCTACTCTCCAGGCATGGACACTTACCCTGTGTCAA  
GTGCAACAAGGTGTTCTCCACCCTCATGGGCTAGAAGTGCATGTCCGCCGCTCTCACAGCGGAACCCGG  
CCCTTTGCCTGTGATGTCTGTGGCAAAACCTTTGGCCACGCTGTGAGCTTGGAGCAGCATACTCAGTCC  
ACTCACAGGAGCGAAGCTTCGAGTGCCGGATGTGTGGCAAAAGCCTTCAAGCGTTCATCCACCCTGTCCAC  
CCACCTGCTCATCCACTCGGACACTCGGCCCTACCCTGCCAGTCTGTGGGAAGCGCTTCCACCAGAAG  
TCGGACATGAAGAAACACACCTACATCCACACAGGTGAGAAGCCCCACAAGTGCCAGGTGTGTGGGAAA  
CCTTCAGCCAGAGCTCCAACCTCATCCCCACAGCCGCAAGCACACAGGCTTCAAGCCGTTACAGCTGTGA  
GCTGTGCACCAAGGGCTTCCAGCGCAAGGTGGACCTGCGACGTCACCGTGAGAGTCAACACAATCTCAAG  
TGAGACGGTTGGCCGCTGCTTTAGTGTCTCGCCTGAAGGCCAGCCTCTCCTTTCCAATCCTGATCCC  
AGTCTCCTGGAAGCAGCATTGCCATGAGCCTCTGCTTCTTTTGGAGCTGGATGACCTCAACCAAGC  
CACATCCTCCTCTGACCACAGCTGATGTGGGAGTCAGTTCGGGCTTTCTGAACTGAGGCAGTCACAGA  
CATGCTCTGGTCTCATTCAATGCCAGAGCACAGACAGCTACAAAGCCCTCGTGGACATGGCAAAACCAGG  
CAAGAGCCAGGATCCACAGAGAAACCTTGTGCTTCTCTGGGTCTAGTGACTGAATTTTTAGGGAT  
TCTTTTTTGGCTGCCACAGTCAGAGTTGTCCCTGGCTAGAGGTCTGGCGCCCTCTGCTTCGGCCAG  
ATGTGCTCTGTCCCCACCTCTACCACATCCATCCGCCACTGGGAGTCAGGCTCCTGAGATGAGCC  
ACGAGGCTATGAAATCAGCCATGATAGTAGAAGCCTGCTCCTATCAGTTGATGTAATGTAATAAAGGT  
GGGTTTATTTAAA  
AAA



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<b>Restriction Sites:</b>	RsrII-NotI
<b>ACCN:</b>	NM_008114
<b>Insert Size:</b>	993 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC052654</a> , <a href="#">AAH52654</a>
<b>RefSeq Size:</b>	1795 bp
<b>RefSeq ORF:</b>	993 bp
<b>Locus ID:</b>	14582
<b>UniProt ID:</b>	<a href="#">O70237</a>
<b>Cytogenetics:</b>	2 A3

**Gene Summary:**

Essential proto-oncogenic transcriptional regulator necessary for development and differentiation of erythroid and megakaryocytic lineages. Component of a RCOR-GFI-KDM1A-HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development and controls hematopoietic differentiation. Transcriptional repressor or activator depending on both promoter and cell type context; represses promoter activity of SOCS1 and SOCS3 and thus, may regulate cytokine signaling pathways. Cooperates with GATA1 to repress target gene transcription, such as the apoptosis regulator BCL2L1; GFI1B silencing in leukemic cell lines markedly increase apoptosis rate. Inhibits down-regulation of MYC and MYB as well as the cyclin-dependent kinase inhibitor CDKN1A/P21WAF1 in IL6-treated myelomonocytic cells. Represses expression of GATA3 in T-cell lymphomas and inhibits GATA1-mediated transcription; as GATA1 also mediates erythroid GFI1B transcription, both GATA1 and GFI1B participate in a feedback regulatory pathway controlling the expression of GFI1B gene in erythroid cells. Suppresses GATA1-mediated stimulation of GFI1B promoter through protein interaction. Binds to gamma-satellite DNA and to its own promoter, auto-repressing its own expression. Alters histone methylation by recruiting histone methyltransferase to target genes promoters. Plays a role in heterochromatin formation.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes a dominant isoform (1).