

## Product datasheet for **MC227976**

### **Gfi1 (NM\_001267621) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gfi1 (NM_001267621) 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:** >MC227976 representing NM\_001267621  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGTGGCGGCAGCGGGCTTCTGGAGGCCTCCTTCTGAGCGCCTTGCCTTCAGCTCCCGAATTTCCAGCCT  
 CAGATGACCAGGGGAAGCCTGGCGGGCCGCTGTGCCAGGAGCGTGCCGCCCGCCCCCTGGACGCCAGCT  
 GCAGCACGAGAACTCAGAGTATCCGAGGGTCCAAACATTCGTCCAGCGGCTGACCACCATGCCGCGCTCA  
 TTCCTGGTCAAGAGCAAGAAGGCGCACAGCTATCACCAGCCGCTTCTCCGGGGCCGGAAGTACTCCCTGC  
 GCCTGGAGACCGTGCCTGCGCCGGGCAGAGCAGAGGGCGCGCTGTGAGTGCAGGCGAGTCGAAATGGA  
 GCCCGAGAGCGTTTGTCCCGGACTCTCAGCTTACCGAGGCTCCGACAGGGCCTCCGCGTCCCCAAC  
 AGCTGCGAAGGCAGCGTTTGTGACCCCTGCTCCGAGTTCGAGGACTTTTGGAGGCCCTTCTCCCTCCG  
 TGTCTCCAGCGTCGAGAAAGTCACTGTGCCGCTCTCTGGACGAAGCCAGCCCTACACGCTGCCTTTCAA  
 GCCCTATGCATGGAGCGTCTTGTGGTCTGACCTGCGGCACCTGGTGCAGAGCTATCGGCAGTGCAGC  
 GCGCTGGAGCGCAGCGCGGCCCTGAGCCTTCTGCGAGCGCGGCTCGGAGCCGGGCCCGCCGCGAGCGC  
 GCTACGGCCCCGAGCAGGCTGCGGGCGGAGCCGGTGCGGGACAGCCAGGAGCTGCGGGGTGCGCGGGG  
 CGCCACCAGCGCTGCGGGCCTGGGGCTCTACGGCGACTTCGCGCCTGCGGCGGCCGGGTGTACGAGCGG  
 CCGAGCACAGCAGCAGGCCGGCTGTACCAAGATCATGGCCACGAGCTGCACGCGGACAAGAGCGTGGGCG  
 TCAAGTGGAGTCGGAGCTGCTTTGACCCGCTGCTGCTGGGCGGCGGCTCTACAAATGCATCAAAATG  
 CAGCAAGTGTTCTCCACACCGCACGGGCTGGAGGTGCACGTGCGCCGGTCCCACAGCGGCACAAGACCC  
 TTTGCGTGCGAGATGTGCGGCAAGACCTTCGGGCACGCGGTGAGCCTGGAGCAACACAAGGCAGTGCCT  
 CCCAGGAACGCAGCTTTGACTGTAAGATCTGTGGCAAGAGCTTCAAGAGTGCATCCACGCTGTCCACACA  
 TCTGCTCATTCACTCGGACACCCGCCCTATCCCTGTCACTGTGGCAAAAGATTCCACCAGAAGTCA  
 GATATGAAGAAACACACCTTCATCCACACAGGTGAGAAGCCCCACAAATGCCAGGTGTGCGGCAAGCCT  
 TCAGTCAGAGCTCCAACCTCATCACTCATAGCAGAAAGCACACAGGCTTCAAGCCCTTTGGCTGTGACCT  
 GTGTGGGAAGGGCTTCCAGAGGAAGGTGGATCTCAGGAGGCACCGAGAGACTCAGCATGGACTCAAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001267621

**Insert Size:** 1470 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).

**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).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001267621.1, NP_001254550.1</u>
<b>RefSeq Size:</b>	2650 bp
<b>RefSeq ORF:</b>	1470 bp
<b>Locus ID:</b>	14581
<b>Cytogenetics:</b>	5 52.23 cM
<b>Gene Summary:</b>	<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 TGFβ1 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 (2) includes an alternate 5' exon and thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (2) has a distinct and longer N-terminus, compared to 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>