

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227976 representing NM_001267621
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGCGGCAGCGGGCTTCTGGAGGCCTCCTTCTGAGCGCCTTGCCCTCAGCTCCCGAATTTCCAGCCT
 CAGATGACCAGGGGAAGCCTGGCGGGCCGCTGTGCCAGGAGCGTGCCGCCCGCCCTGGACGCCAGCT
 GCAGCACGAGAACTCAGAGTATCCGAGGGTCCAAACATTCGTCCAGCGGCTGACCACCATGCCGCGCTCA
 TTCCTGGTCAAGAGCAAGAAGGCGCACAGCTATCACCAGCCGCTTCTCCGGGGCCGACTACTCCCTGC
 GCCTGGAGACCGTGCCTGCGCCGGCAGAGCAGAGGGCGCGCTGTGAGTGCAGGCGAGTCGAAAATGGA
 GCCCGAGAGCGTTTGTCCCGGACTCTCAGCTTACCGAGGCTCCGACAGGGCCTCCGCGTCCCCAAC
 AGCTGCGAAGGCAGCGTTTGTGACCCCTGCTCCGAGTTCGAGGACTTTTGGAGGCCCTTCTCCCTCCG
 TGTCTCCAGCGTCGGAGAAGTCACTGTGCCCTCTCTGGACGAAGCCAGCCCTACACGCTGCCTTTCAA
 GCCCTATGCATGGAGCGTCTTGTGGGTCTGACCTGCGGCACCTGGTGCAGAGCTATCGGCAGTGCAGC
 GCCTGGAGCGCAGCGCGGCCCTGAGCCTTCTGCGAGCGCGGCTCGGAGCCGGGCCCGCCGGCAGCGC
 GCTACGGCCCGAGCAGGCTGCGGGCGGAGCCGGTGCGGGACAGCCAGGGAGCTGCGGGGTGCGCGGGG
 CGCCACCAGCGCTGCGGGCTGGGGCTCTACGGCGACTTCGCGCCTGCGCGGCCGGGCTGTACGAGCGG
 CCGAGCACAGCAGCAGGCCGGCTGTACCAAGATCATGGCCACGAGCTGCACGCGGACAAGAGCGTGGGCG
 TCAAGTGGAGTCGGAGCTGCTTTGACCCGCTGCTGCTGGCGGGCGGCTCCTACAAATGCATCAAATG
 CAGCAAGTGTCTCCACACCGCACGGGCTGGAGGTGCACGTGCGCCGGTCCCACAGCGGCACAAGACCC
 TTTGCGTGCAGAGTGTGCGGCAAGACCTTCGGGCACGCGGTGAGCCTGGAGCAACACAAGGCAGTGCCT
 CCCAGGAACGCAGCTTTGACTGTAAGATCTGTGGCAAGAGCTTCAAGAGTCCATCCAGCTGTCCACACA
 TCTGCTCATTCACTCGGACACCCGGCCCTATCCCTGTCACTACTGTGGCAAAGATTCCACCAGAAGTCA
 GATATGAAGAAACACACCTTCATCCACACAGGTGAGAAGCCCAAAATGCCAGGTGTGCGGCAAAGCCT
 TCAGTCAGAGCTCCAACCTCATCACTCATAGCAGAAAGCACACAGGCTTCAAGCCCTTTGGCTGTGACCT
 GTGTGGGAAGGGCTTCCAGAGGAAGGTGGATCTCAGGAGGCACCGAGAGACTCAGCATGGACTCAAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-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).

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_001267621.1](#), [NP_001254550.1](#)

RefSeq Size: 2650 bp

RefSeq ORF: 1470 bp

Locus ID: 14581

Cytogenetics: 5 52.23 cM

Gene Summary: 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]

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.