

Product datasheet for **MR227196**

Gfi1 (NM_010278) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfi1 (NM_010278) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR227196 representing NM_010278
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGCTCATTCTGGTCAAGAGCAAGAAGGCGCACAGCTATCACCAGCCGCTTCTCCGGGGCCG
 ACTACTCCCTGCGCCTGGAGACCGTGCCTGCGCCGGGAGAGCAGAGGGCGCGCTGTAGTGCAGGCGA
 GTCGAAAATGGAGCCCCGAGAGCGTTTGTCCCGACTCTCAGCTTACCGAGGCTCCCGACAGGGCTCC
 GCGTCCCCAACAGCTGCGAAGGCAGCGTTTGTGACCCCTGCTCCGAGTTCGAGGACTTTTGGAGGCCCC
 CTTCTCCCTCCGTGTCTCCAGCGTCGGAGAAGTCACTGTGCCGCTCTCTGGACGAAGCCAGCCCTACAC
 GCTGCCTTTCAAGCCCTATGCATGGAGCGGTCTTGTGGGTCTGACCTGCGGCACCTGGTGCAGAGCTAT
 CGGCAGTGCAGCGCGCTGGAGCGCAGCGGGCCCTGAGCCTCTTCTGCGAGCGCGCTCGGAGCCGGCC
 GCCCGGCAGCGCGCTACGGCCCCGAGCAGGCTGCGGGCGGAGCCGGTGGGGACAGCCAGGGAGCTGCGG
 GGTGCGCCGGGGGCCACACAGCGCTGCGGGCCTGGGGCTCTACGGCGACTTCGCGCTGCGCGCCGGG
 CTGTACGAGCGGCGGAGCACAGCAGCAGCCGGCTGTACCAAGATCATGGCCACGAGCTGCACGCGGACA
 AGAGCGTGGGCGTCAAGGTGGAGTCGGAGCTGCTTTGCACCCGCTGCTGCTGGGCGGCGCTCCTACAA
 ATGCATCAATGCAGCAAGGTGTTCTCCACACCGCACGGGCTGGAGGTGCACGTGCGCCGGTCCCACAGC
 GGCACAAGACCCTTTGCGTGCAGATGTGCGGCAAGACCTTGGGCGACCGGTGAGCCTGGAGCAACACA
 AGGCAGTGCACCTCCAGGAACGCAGCTTTGACTGTAAGATCTGTGGCAAGAGCTTCAAGAGGTATCCAC
 GCTGTCCACACATCTGCTCATTCACTCGGACACCCGGCCCTATCCCTGTCACTGTGGCAAAAGATTC
 CACCAGAAAGTTCAGATGAAGAAACACACCTTCATCCACACAGGTGAGAAGCCCCACAAATGCCAGGTGT
 GCGGCAAAAGCCTTCAGTCAGAGCTCCAACCTCATCACTCATAGCAGAAAGCACACAGGCTTCAAGCCCTT
 TGCTGTGACCTGTGGGAAGGCTTCCAGAGGAAGGTGGATCTCAGGAGGCACCGAGAGACTCAGCAT
 GGACTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227196 representing NM_010278
 Red=Cloning site Green=Tags(s)

MPRSFLVKSCKAHSYHQPRSPGPDYSLRLETVPAPGRAEGGAVSAGESKMEPRERLSPDSQLTEAPDRAS
 ASPNSCEGSVCDPCSEFEDFWRPPSPSVSPASEKSLCRSLDEAQPYTLPFKPYAWSGLAGSDLRHLVQSY
 RQCSALERSAGLSLFCERGSEPRPAARYGPEQAAGGAGAGQPGSCGVAGGATSAAGLGLYGFAPAAAG
 LYERPSTAAGRLYQDHGHELHADKSVGKVESELLCTRLLGGGSYKICKSKVSTPHGLEVHVRSHS
 GTRPFACEMCGKTFGHAVSLEQHKAVHSQERSFDCKICGKSFKRSSTLSTHLLIHS DTRPYPCQYCGKRF
 HQKSDMKKHTFIHTGEKPHKCQVCGKAFSQSSNLIH SRKHTGFKPF GCDLCGKGFQRKVDLRRHRETQH
 GLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1159_g07.zip

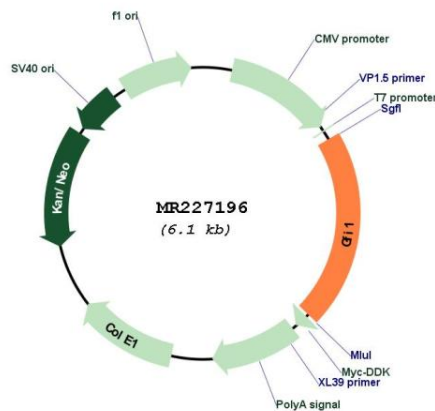
Restriction Sites:

Sgfl-Mlul

RefSeq Size: 2862 bp
 RefSeq ORF: 1272 bp
 Locus ID: 14581
 UniProt ID: [P70338](#)
 Cytogenetics: 5 52.23 cM
 MW: 46.3 kDa

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 CDKN1A/p21 transcription in response to TGFB1 via recruitment of GFI1 by ZBTB17 to the CDKN1A/p21 and CDKN1B promoters. Required for the maintenance of inner ear hair cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227196