

Product datasheet for **RC207574**

GFI1 (NM_005263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFI1 (NM_005263) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GFI1
Synonyms:	GFI-1; GFI1A; SCN2; ZNF163
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207574 representing NM_005263
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGCTCATTTCTCGTCAAAGCAAGAAGGCTCACAGCTACCACCAGCCGCTCCCAAGGACCAG
 ACTATTCCTCCGTTTAGAGAATGTACCGCGCCTAGCCGAGCAGACAGCACTTCAAATGCAGGCGGGC
 GAAGGCGGAGCCCGGGACCGTTTGTCCCCGAATCGCAGCTGACCGAAGCCCCAGACAGAGCCTCCGCA
 TCCCCAGACAGCTGCGAAGGCAGCGTCTGCGAACGGAGCTCGGAGTTTGAGGACTTCTGGAGGCCCGCT
 CACCTCCGCTCTCCAGCCTCGGAGAAGTCAATGTGCCATCGCTGGACGAAGCCAGCCCTTCCCT
 GCCTTTCAAACCGTACTCATGGAGCGCCTGGCGGTTCTGACCTGCGGCACCTGGTGCAGAGCTACCGA
 CCGTGTGGGGCCCTGGAGCGTGGCCTGGCCTGGCCTTCTGTGAACCCGCCCGGAGCCTGGCCACC
 CGGCCGCGCTGTACGGCCGAAGCGGGTGCCTGGCGCGCGGGGGCCGGGGCCAGGGAGCTGCAGCGC
 AGGGGCCGCTGCCACCGCTGGCCTGGCCTAGGGCTCTACGGCGACTTCGGGTCTGCGGCAGCCGGCTG
 TATGAGAGGCCACGGCAGCGCGGGCTTGTGTACCCGAGCGTGGCCACGGGCTGCACGAGACAAGG
 GCGCTGGCGTCAAGGTGGAGTCGGAGTCTGTGCACCCGCTGTGTGGGCGGCGCTCTACAAGT
 CATCAAGTGCAGCAAGGTGTTCTCCACGCCACGGGCTCGAGGTGCACGTGCGCAGTCCCACAGCGGT
 ACCAGACCCTTTCCTGCGAGATGTGCGGAAGACCTTCGGGCACGCGGTGAGCCTGGAGCAGCACAAG
 CCGTGCCTCGCAGGAACGGAGCTTTGACTGTAAGATCTGTGGGAAGAGCTTCAAGAGGTATCCACT
 GTCCACACACCTGCTTATCCACTCAGACACTCGGCCCTACCCCTGTCAGTACTGTGGCAAGAGTTCCAC
 CAGAAGTCAGACATGAAGAAACACACTTTCATCCACACTGGTGAAGCCCTACAAGTCCAGGTGTGCG
 GCAAGGCATTAGCCAGAGCTCCAACCTCATACCCACAGCCGAAACACACAGGCTTCAAGCCCTTCGG
 CTGCGACCTCTGTGGGAAGGGTTCCAGAGGAAGGTGGACCTCCGAAGGCACCGGAGACGCAGCATGGG
 CTCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207574 representing NM_005263
 Red=Cloning site Green=Tags(s)

MPRSFLVKSCKAHSYHQPRSPGPDYSLRLENVPAPSRADSTSNAGGAKAEPRDRLSPESQLTEAPDRASA
 SPDSCEGSVCERSSEFEDFWRPPSPSPASEKSMCPSLDEAQPFLPFKPYSWSLAGSDLRHLVQSYR
 PCGALERGAGLGLFCEPAPEPGHPAALYGPKRAAGGAGAGAPGSCSAGAGATAGPGLGLYGDFGSAAGL
 YERPTAAAGLLYPERGHGLHADKGAGVKVESELLCTRLLLGGGSYKCIKSKVSTPHGLEVHVRSSHSG
 TRPFACEMCGKTFGHAVSLEQHKAVHSQERSFDCKICGKSFKRSSTLSTHLLIHS DTRPYPCQYCGKRFH
 QKSDMKKHTFIHTGEKPHKCQVCGKAFSQSSNLI THSRKHTGFKPFGCDL CGKGFQRKVDLRRHRETQHG
 LK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2919_g01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005263

ORF Size: 1266 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_005263.5](#)

RefSeq Size: 2784 bp

RefSeq ORF: 1269 bp

Locus ID: 2672

UniProt ID: [Q99684](#)

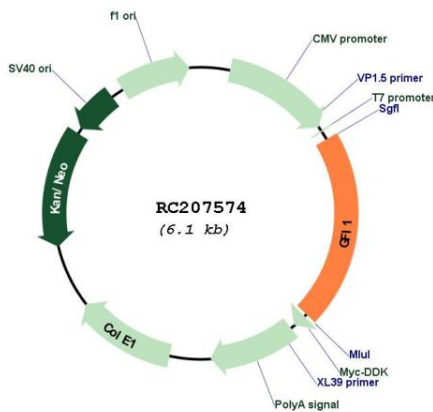
Cytogenetics: 1p22.1

Protein Families: Druggable Genome, Transcription Factors

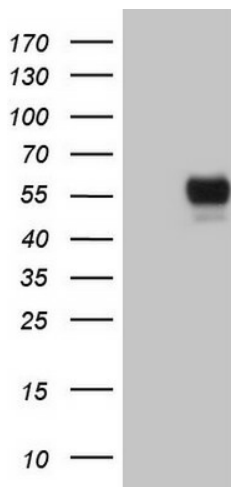
MW: 45.1 kDa

Gene Summary: This gene encodes a nuclear zinc finger protein that functions as a transcriptional repressor. This protein plays a role in diverse developmental contexts, including hematopoiesis and oncogenesis. It functions as part of a complex along with other cofactors to control histone modifications that lead to silencing of the target gene promoters. Mutations in this gene cause autosomal dominant severe congenital neutropenia, and also dominant nonimmune chronic idiopathic neutropenia of adults, which are heterogeneous hematopoietic disorders that cause predispositions to leukemias and infections. Multiple alternatively spliced variants, encoding the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008]

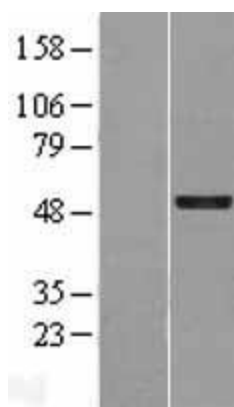
Product images:



Circular map for RC207574



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GFI1 (Cat# RC207574, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GFI1 (Cat# [TA805544]). Positive lysates [LY417416] (100ug) and [LC417416] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY426717]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225680] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).