

Product datasheet for **RG207574**

GFI1 (NM_005263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFI1 (NM_005263) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GFI1
Synonyms:	GFI-1; GFI1A; SCN2; ZNF163
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207574 representing NM_005263 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCGCTCATTTCTCGTCAAAGCAAGAAGGCTCACAGCTACCACCAGCCGCGCTCCCAGGACCAG
ACTATTCCTCCGTTTAGAGAATGTACCGGCGCCTAGCCGAGCAGACAGCACTTCAAATGCAGGCGGGC
GAAGGCGGAGCCCGGGACCGTTTGTCCCCGAATCGCAGCTGACCGAAGCCCCAGACAGAGCCTCCGCA
TCCCCAGACAGCTGCGAAGGCAGCGTCTCGAACGGAGCTCGGAGTTTGAGGACTTCTGGAGCCCCCGT
CACCTCCGCGTCTCCAGCCTCGGAGAAGTCAATGTGCCATCGCTGGACGAAGCCAGCCCTTCCCCT
GCCTTCAAACCGTACTCATGGAGCGGCCGTGGCGGTTCTGACCTGCGGCACCTGGTGCAGAGCTACCGA
CCGTGTGGGGCCCTGGAGCGTGGCGCTGGCCTGGGCTTCTGCGAACCAGCCCGGAGCCTGGCCACC
CGGCCGCGCTGTACGGCCGAAGCGGGCTGCCGGCGCGCGGGGGCCGGGGCGCCAGGGAGCTGCAGCGC
AGGGGCCGGTGCCACCGCTGGCCCTGGCCTAGGGCTCTACGGCGACTTCGGGTCTGCGGCAGCCGGGCTG
TATGAGAGGCCACGGCAGCGCGGGCTTGTGTACCCGAGCGTGGCCACGGGCTGCACGCAGACAAGG
GCGCTGGCGTCAAGGTGGAGTCGGAGCTGTGTGACCCCGCTGCTGTGGGCGGCGCTCTACAAGTG
CATCAAGTGCAGCAAGGTGTTCTCCACGCCGACGGGCTCGAGGTGCACGTGCGCAGGTCCCACAGCGGT
ACCAGACCCTTGGCTGCGAGATGTGCGCAAGACCTTCGGGCACGCGGTGAGCCTGGAGCAGCACAAG
CCGTGCACTCGCAGGAACGGAGCTTTGACTGTAAGATCTGTGGGAAGAGCTTCAAGAGGTATCCACACT
GTCCACACACCTGCTTATCCACTCAGACACTCGGCCCTACCCCTGTCACTGTGGCAAGAGGTTCCAC
CAGAAGTCAGACATGAAGAAACACTTTTATCCACTGGTGAAGCCTCACAAGTGCCAGGTGTGCG
GCAAGGCATTAGCCAGAGCTCCAACCTCATCACCCACAGCCGAAACACACAGGCTTCAAGCCCTTCGG
CTGCGACCTCTGTGGGAAGGTTTCCAGAGGAAGGTGGACCTCCGAAGGCACCGGAGACGCAGCATGG
CTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207574 representing NM_005263
 Red=Cloning site Green=Tags(s)

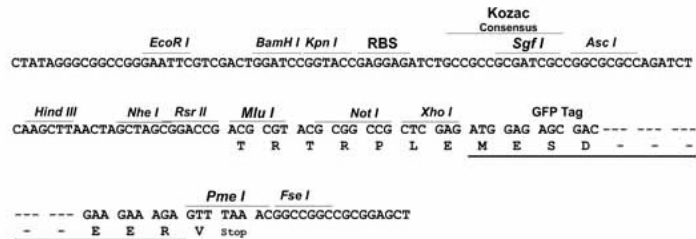
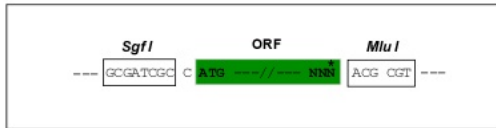
MPRSFLVKSCKAHSYHQPRSPGPDYSLRLENPAPSRADSTSNAGGAKAEPDRDLSPESQLTEAPDRASA
 SPDSCEGCVCSSEFEFDFWRPPSPSPASPAEKSMCPSLDEAQPFLPFKPYSWGLAGSDLRHLVQSYR
 PCGALERAGLGLFCEPAPEPGHPAALYGPKRAAGGAGAGAPGSCSAGAGATAGPGLGLYGDGFSAAAGL
 YERPTAAAGLLYPERGHGLHADKGAGVKVESELLCTRLLLGGGSYKCIKCSKVFSTPHGLEVHVRRSHSG
 TRPFACEMCGKTFGHAVSLEQHKAVHSQERSFDCKICGKSFKRSSLSTHLLIHSDRPYPCQYCGKRFB
 QKSDMKKHTFIHTGKPKHCQVCGKAFSQSSNLIHRSRKHGTGKPFGCGLCGKGFQRKVDLRRHRETQHG
 LK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

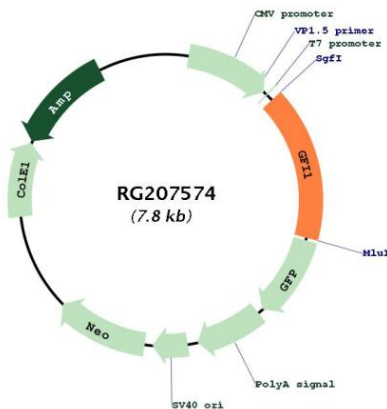
UniProt ID: [Q99684](#)

Cytogenetics: 1p22.1

Protein Families: Druggable Genome, Transcription Factors

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 RG207574