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Product datasheet for SC323046

GFI1 (NM_001127216) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFI1 (NM_001127216) Human Untagged Clone
Tag:	Tag Free
Symbol:	GFI1
Synonyms:	GFI-1; GFI1A; SCN2; ZNF163
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC323046 representing NM_001127216.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCGCGCTCATTTCTCGTCAAAAGCAAGAAGGCTCACAGCTACCACCAGCCGCGCTCCCCAGGACCA
GACTATTCCCTCCGTTTAGAGAATGTACCGGCGCCTAGCCGAGCAGACAGCACTTCAAATGCAGGCGGG
GCGAAGGCGGAGCCCCGGGACCGTTTGTCCCCCGAATCGCAGCTGACCGAAGCCCCAGACAGAGCCTCC
GCATCCCCAGACAGCTGCGAAGGCAGCGTCTGCGAACGGAGCTCGGAGTTTGAGGACTTCTGGAGGCCC
CCGTCACCCTCCGCGTCTCCAGCCTCGGAGAAGTCAATGTGCCCATCGCTGGACGAAGCCCAGCCCTTC
CCCCTGCCTTTCAAACCGTACTCATGGAGCGGCCTGGCGGGTTCTGACCTGCGGCACCTGGTGCAGAGC
TACCGACCGTGTGGGGCCCTGGAGCGTGGCGCTGGCCTGGGCCTCTTCTGCGAACCCGCCCCGGAGCCT
GGCCACCCGGCCGCGCTGTACGGCCCGAAGCGGGCTGCCGGCGGCGCGGGGGCCGGGGCGCCAGGGAGC
TGCAGCGCAGGGGCCGGTGCCACCGCTGGCCCTGGCCTAGGGCTCTACGGCGACTTCGGGTCTGCGGCA
GCCGGGCTGTATGAGAGGCCCACGGCAGCGGCGGGCTTGCTGTACCCCGAGCGTGGCCACGGGCTGCAC
GCAGACAAGGGCGCTGGCGTCAAGGTGGAGTCGGAGCTGCTGTGCACCCGCCTGCTGCTGGGCGGCGGC
TCCTACAAGTGCATCAAGTGCAGCAAGGTGTTCTCCACGCCGCACGGGCTCGAGGTGCACGTGCGCAGG
TCCCACAGCGGTACCAGACCCTTTGCCTGCGAGATGTGCGGCAAGACCTTCGGGCACGCGGTGAGCCTG
GAGCAGCACAAAGCCGTGCACTCGCAGGAACGGAGCTTTGACTGTAAGATCTGTGGGAAGAGCTTCAAG
AGGTCATCCACACTGTCCACACACCTGCTTATCCACTCAGACACTCGGCCCTACCCCTGTCAGTACTGT
GGCAAGAGGTTCCACCAGAAGTCAGACATGAAGAAACACACTTTCATCCACACTGGTGAGAAGCCTCAC
AAGTGCCAGGTGTGCGGCAAGGCATTCAGCCAGAGCTCCAACCTCATCACCCACAGCCGCAAACACACA
GGCTTCAAGCCCTTCGGCTGCGACCTCTGTGGGAAGGGTTTCCAGAGGAAGGTGGACCTCCGAAGGCAC
CGGGAGACGCAGCATGGGCTCAAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001127216
Insert Size:	1269 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001127216.1
RefSeq Size:	2709 bp
RefSeq ORF:	1269 bp
Locus ID:	2672
UniProt ID:	Q99684
Cytogenetics:	1p22.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	45.3 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] Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. 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.