OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG225678

GFI1 (NM_001127215) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFI1 (NM_001127215) 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:

>RG225678 representing NM_001127215
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCGCTCATTTCTCGTCAAAAGCAAGAAGGCTCACAGCTACCACCAGCCGCGCTCCCCAGGACCAG
ACTATTCCCTCCGTTTAGAGAATGTACCGGCGCCTAGCCGAGCAGACAGCACTTCAAATGCAGGCGGGGC
GAAGGCGGAGCCCCGGGACCGTTTGTCCCCCGAATCGCAGCTGACCGAAGCCCCAGACAGAGCCTCCGCA
TCCCCAGACAGCTGCGAAGGCAGCGTCTGCGAACGGAGCTCGGAGTTTGAGGACTTCTGGAGGCCCCCGT
CACCCTCCGCGTCTCCAGCCTCGGAGAAGTCAATGTGCCCATCGCTGGACGAAGCCCAGCCCTTCCCCCT
GCCTTTCAAACCGTACTCATGGAGCGGCCTGGCGGGTTCTGACCTGCGGCACCTGGTGCAGAGCTACCGA
CCGTGTGGGGCCCTGGAGCGTGGCGCTGGCCTGGGCCTCTTCTGCGAACCCGCCCCGGAGCCTGGCCACC
CGGCCGCGCTGTACGGCCCGAAGCGGGCTGCCGGCGGCGCGGGGGCCGGGGCGCCAGGGAGCTGCAGCGC
AGGGGCCGGTGCCACCGCTGGCCCTGGCCTAGGGCTCTACGGCGACTTCGGGTCTGCGGCAGCCGGGCTG
TATGAGAGGCCCACGGCAGCGGCGGGCTTGCTGTACCCCGAGCGTGGCCACGGGCTGCACGCAGACAAGG
GCGCTGGCGTCAAGGTGGAGTCGGAGCTGCTGTGCACCCGCCTGCTGCTGGGCGGCGGCTCCTACAAGTG
CATCAAGTGCAGCAAGGTGTTCTCCACGCCGCACGGGCTCGAGGTGCACGTGCGCAGGTCCCACAGCGGT
ACCAGACCCTTTGCCTGCGAGATGTGCGGCAAGACCTTCGGGCACGCGGTGAGCCTGGAGCAGCACAAAG
CCGTGCACTCGCAGGAACGGAGCTTTGACTGTAAGATCTGTGGGAAGAGCTTCAAGAGGTCATCCACACT
GTCCACACACCTGCTTATCCACTCAGACACTCGGCCCTACCCCTGTCAGTACTGTGGCAAGAGGTTCCAC
CAGAAGTCAGACATGAAGAAACACACTTTCATCCACACTGGTGAGAAGCCTCACAAGTGCCAGGTGTGCG
GCAAGGCATTCAGCCAGAGCTCCAACCTCATCACCCACAGCCGCAAACACACAGGCTTCAAGCCCTTCGG
CTGCGACCTCTGTGGGAAGGGTTTCCAGAGGAAGGTGGACCTCCGAAGGCACCGGGAGACGCAGCATGGG
CTCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

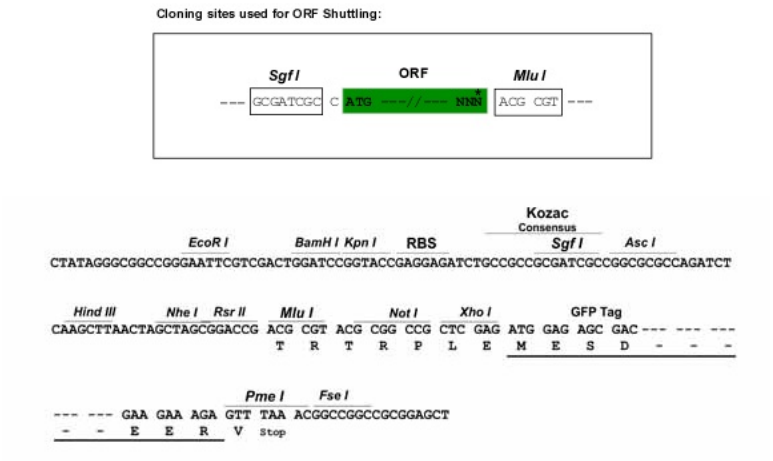
>RG225678 representing NM_001127215
Red=Cloning site Green=Tags(s)

MPRSFLVKSKKAHSYHQPRSPGPDYSLRLENVPAPSRADSTSNAGGAKAEPRDRLSPESQLTEAPDRASA
SPDSCEGSVCERSSEFEDFWRPPSPSASPASEKSMCPSLDEAQPFPLPFKPYSWSGLAGSDLRHLVQSYR
PCGALERGAGLGLFCEPAPEPGHPAALYGPKRAAGGAGAGAPGSCSAGAGATAGPGLGLYGDFGSAAAGL
YERPTAAAGLLYPERGHGLHADKGAGVKVESELLCTRLLLGGGSYKCIKCSKVFSTPHGLEVHVRRSHSG
TRPFACEMCGKTFGHAVSLEQHKAVHSQERSFDCKICGKSFKRSSTLSTHLLIHSDTRPYPCQYCGKRFH
QKSDMKKHTFIHTGEKPHKCQVCGKAFSQSSNLITHSRKHTGFKPFGCDLCGKGFQRKVDLRRHRETQHG
LK

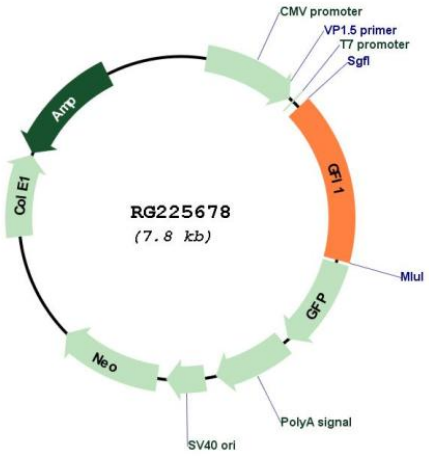
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001127215

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_001127215.2
RefSeq Size:	2716 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]