

Product datasheet for **SC310126**

GIT1 (NM_014030) Human Untagged Clone

Product data:

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|---------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | GIT1 (NM_014030) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | GIT1 |
| Vector: | <u>pCMV6 series</u> |



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_014030, the custom clone sequence may differ by one or more nucleotides

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ATGTCCCAGAAAGGGGCCGCGAGCGGAGGTGTGTGCGGACTGCAGCGCCCCGGACCCTGGC
TGGGCATCCATCAGCAGGGGTGTGCTGGTGTGTGACGAGTGTGCAGCGTGCACCGGAGC
CTGGGACGCCACATCTCCATTGTCAAGCACCTTCGCCACAGCGCTGGCCTCCCACGCTG
CTGCAGATGGTGCACACGCTTCCAGCAACGGGGCCAACCTCCATCTGGGAGCACTCCCTG
CTGGACCCCGCACAAAGTGCAGAGCGGCGCGGTAAGGCCAACCCCAAGACAAAGTCCAC
CCCATCAAGTCAGAGTTTCATCAGGGCCAAGTACCAGATGCTGGCATTGTGCACAAGCTT
CCCTGCCGGGACGATGATGGAGTCAACGCCAAAGACCTCAGCAAGCAACTACACTCGAGC
GTGCGGACAGGCAACCTGGAGACATGTCTGCGCCTGCTCTCCCTGGGTGCCAGGCAAC
TTCTTCCACCCAGAGAAGGGCACCACACCTCTGCACGTGGCTGCCAAGGCAGGACAGACA
CTGCAGGCCGAGCTGCTGTAGTGTATGGGGCTGACCCTGGCTCCCCTGATGTTAATGGC
CGCACACCCATTGACTATGCCAGGCAGGCGGGCACCATGAGCTGGCGAAAGGCTGGTT
GAGTGCCAAATATGAGCTACTGACCGGCTGGCCTTCTACCTCTGTGGACGCAAGCCGGAT
CACAAGAATGGGCATTACATCATCCACAGATGGCTGACAGCCTTGACTTATCCGAATTG
GCCAAAGCTGCTAAGAAGAAGCTGCAGGCGCTCAGCAACCGGCTTTTTGAGGAACTCGCC
ATGGACGTGTATGACGAGGTGGATCGAAGAGAAAATGATGCAGTGTGGCTGGCTACCCAA
AACCACAGCACTCTGGTGCAGAGCGCAGTGCCGTGCCCTTCTGCTGTAAACCCGGAA
TACTCAGCCACGCGGAATCAGGGGCGACAAAAGCTGGCCCGCTTAAATGCCCGAGAGTTT
GCCACCTTGATCATCGACATTCTCAGTGAGGCCAAGCGGAGACAGCAGGGCAAGAGCCTG
AGCAGCCCCACAGACAACCTCGAGCTGTCTCTGCGGAGCCAGAGTGACCTCGACGACCAA
CACGACTACGACAGCGTGGCCTCTGACGAGGACACAGACCAGGAGCCCTGCGCAGCACC
GGCGCCACTCGGAGCAACCGGGCCCGGAGCATGGACTCCTCGGACTTGTCTGACGGGGCT
GTGACGCTGCAGGAGTACCTGGAGCTGAAGAAGGCCCTGGCTACATCGGAGGCAAAAGGTG
CAGCAGCTCATGAAGGTCAACAGTAGCCTGAGCGACGAGCTCCGGAGGCTGCAGCGAGAG
ATCCACAAGTGCAGGCGGAGAACCTGCAGCTCCGGCAGCCTCCAGGGCCGGTGCCACA
CCTCCACTCCCCAGTGAACGGGCGGAACACACCCATGGCGCCAGGCGGGAGCACACAC
CGCAGGGATCGCCAGGCCTTTCCATGTATGAACCTGGCTCTGCCCTGAAGCCCTTTGGG
GGCCCCCTGGGACGAGCTCACTACGCGGCTGCAGCCTTCCACAGCACTGAGCTAGAG
GACGACGCCATCTATTAGTGCACGTCCCTGCTGGCCTTACCAGGATCCGAAAGGGGTG
TCTGCCTCAGCTGTGCCCTTCACTCCCTCCTCCCGCTGCTGTCTGCTCCAGGAGGGA
AGCCGCCACACGAGCAAGCTTCCCGCCACGGCAGTGGAGCCGACAGTACTATGAGAAC
ACGCAAAGTGGGGACCCACTGCTGGGGTGAAGGGAAGAGGTTTCTAGAGCTGGGCAAA
GAGGAAGACTTCCACCCAGAGCTGGAAAGCCTGGATGGAGACCTAGATCCTGGGCTTCCC
AGCACAGAGGATGTATCTTGAAGACAGAGCAGGTCAACCAAGAACATTACGGAAGTGTG
CGGGCAGCCCAGGAGTTCAAGCATGACAGCTTCGTGCCCTGCTCAGAGAAGATCCATTTG
GCTGTGACCGAGATGGCCTCCCTCTTCCAAAGAGGCCAGCCCTGGAGCCAGTGGCGAGC
TCACTGCGGCTGCTCAACGCCAGCGCCTACCGGCTGCAGAGTGAAGTCCCGGAAGACAGTG
CCCCCAGAGCCCAGGCGCCCAAGTGGACTTCCAGCTGCTGACTCAGCAGGTGATCCAGTGC
GCCTATGACATCGCCAAGGCTGCCAAGCAGCTGGTCACCATCACCAACCCGAGAGAAGAAG
CAGTGA

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Restriction Sites: Please inquire

ACCN: NM_014030

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_014030.2](#), [NP_054749.2](#)

RefSeq Size: 3758 bp

RefSeq ORF: 2286 bp

Locus ID: 28964

UniProt ID: [Q9Y2X7](#)

Cytogenetics: 17q11.2

Domains: ArfGap, ANK, GIT

Protein Families: Druggable Genome

Protein Pathways: Endocytosis, Epithelial cell signaling in Helicobacter pylori infection, Regulation of actin cytoskeleton

Gene Summary:

GTPase-activating protein for the ADP ribosylation factor family. May serve as a scaffold to bring together molecules to form signaling modules controlling vesicle trafficking, adhesion and cytoskeletal organization. Increases the speed of cell migration, as well as the size and rate of formation of protrusions, possibly by targeting PAK1 to adhesions and the leading edge of lamellipodia. Sequesters inactive non-tyrosine-phosphorylated paxillin in cytoplasmic complexes. Involved in the regulation of cytokinesis; the function may involve ENTR1 and PTPN13 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 2).