

Product datasheet for **MG210556**

Git1 (NM_001004144) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Git1 (NM_001004144) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Git1
Synonyms:	Cat-1; p95Cat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210556 representing NM_001004144
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCGAAGGGGCCGAGCGGAGGTGTGTGCGGACTGCAGCGCTCCGGACCCTGGCTGGGCATCTA
 TCAGCAGAGGTGTGCTGGTTTGTGACGAGTGTGCAGTGTGCACCGGAGCCTGGGACGACACATCTCCAT
 TGTC AAGCACCTGCGCCACAGCGCTGGCCTCCTACGCTGCTCCAGATGGTGCACACGCTTGCCAGCAAC
 GGGGCCAACTCCAATCTGGGAGCACTCCCTGCTGGACCCTGCGCAAGTCAAAGTGGCCGGCGCAAAGCCA
 ACCCCCAAGATAAAGTCCACCCCATCAAGTCAGAGTTCATCAGGGCAAAGTACCAGATGCTGGCGTTCGT
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 CCCTGAATACTCAGCCACTCGGAATCAGGGACGACAGAAATTGGCCGTTTCAATGCCCGAGAGTTTGC
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 GATGAGCTGCACCCTGAGCTGGAGAGCTTAGATGGAGACCTCGACCCCGGGCTCCCAGCACCGAAGACG
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 AGTGCCGGAAGACAGTGCCTCCAGAGCCGGCGCCCTGTGGACTTCCAGCTGCTGACTCAGCAGGTGAT
 CCAGTGGCCTATGACATCGCCAAGGCTGCCAAGCAGCTGGTACCATCACCACCGAGAGAAGAAACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210556 representing NM_001004144
Red=Cloning site Green=Tags(s)

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MSRKGPRAEVCDACSAPDPGWASISRGVLVCECCSVHRSLGRHISIVKHLRHSAPPTLLQMVHTLASN
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VRTGNLETCLRLLSLGAQANFFHPEKGTTPHVAAGAGQTLQAELLVYVGADPGSPDVNGRTPIDYARQA
GHHELAERLVECYELTDRLAFYLCGRKPDHKNHGYIIPQMADRSRQKCMSQSLDLSELAKAAKKLQAL
SNRLEFEELAMDVYDEVDRRENDVWLATQNHSTLVTERSAPVFLPVNPEYSATRNQGRQKLARFNAREFA
TLIIDILSEAKRRQQGKSLSSPTDNLELSARSQSELDDQHDYDSVASDEDTDQEPLPSAGATRNRRASM
DSSDLSDGAVTLQEYLELKKALATSEAKVQQLMKVNSSLDELRRLQREIHKLQAEENLQRQPPGPVPPP
SLPSEAEHTLMGPGGSTHRRDRQAFSMYEPGSALKPFGGTPGDELATRLQPFHSTELEDDAIYSVHVPA
GLYRIRKGVSAASSVPFTPSSPLLSCSQEGSRHASKLSRHGSGADSDYENTQSGDPLLGLGKRFLELSKE
DELHPELESLDGLDPGLPSTEDVILKTEQVTNKIQELLRAAQEFKHDSFVPCSEKIHLAVTEMASLFPK
RPALPEVRSSLRLLNASAYRLQSECRKTVPEPGAPVDFQLLTQQVIQCAVDIAKAAKQLVTITTREKKQ
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004144

ORF Size: 2310 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_001004144.1](#), [NP_001004144.1](#)

RefSeq Size: 3670 bp

RefSeq ORF: 2313 bp

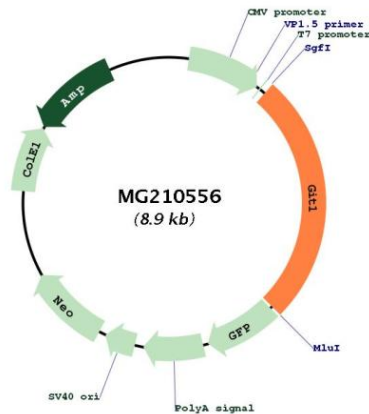
Locus ID: 216963

UniProt ID: [Q68FF6](#)

Cytogenetics: 11 B5

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 (By similarity). Involved in the regulation of cytokinesis; the function may involve ENTR1 and PTPN13 (PubMed:23108400).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210556