

Product datasheet for **RR211288**

Git2 (NM_001005553) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Git2 (NM_001005553) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Git2
Synonyms:	MGC94099
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR211288 representing NM_001005553
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGAAGCGTCTCCGGAGCAACGACGTGTGCGCCGACTGCAGCGGGCCTGATCCTTCCTGGGCATCAG
 TGAACAGGGGACTCTCATATGTGATGAGTGTGTCAGTGTTCATCGGAGCCTAGGGCGCCACATCTCCCA
 AGTCAGGCATCTTAAACACACACCATGGCCTCCAACCCTGCTTCAGATGGTTGAGACCTGTATAGCAAT
 GGTGCTAATTCTATCTGGGAGCATTCTTTGCTGGACCCTGCTTCTGTTATGAGTGGGAGACGAAAGCCA
 ATCCACAGGATAAAGTCCACCCCAATAAAGCAGAATTCATCAGAGCCAAGTATCAGATGTTAGCATTGT
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 GTGAGAACAGGGAATCTGAGACCTGTCTGAGACTGTTGCGTTAGGAGCCCAAGCCAATCTTCCATC
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 TCTGCGGCCGAAACAGATCATAAAAACGGACAGCACTTTATAATCCCTCAGATGGCAGACAGCAGCCT
 GGATTTGTCTGAGTTGGCAAAAGCTGCCAAGAAGAACTTCAGTCTTAAGTAATCATTTGTTTGAAGAA
 CTTGCCATGGATGTGTACGATGAAGTTGACAGACGAGAGACTGATGCAGTCTGGCTTGCCACGCAAAACC
 ACAGCACCTTGGTAACTGAGACAACCGTCGTTCCCTTTCTCCGGTCAACCCTGAGTACTCCTCGACACG
 AAACCAGGGCAGACAGAAATTAGCTCGGTTTAAATGCCATGAATTTGCTACACTGGTCATCGACATCCTC
 AGTGACGCCAAGAGGAGACAGCAAGGCAGTCTCTCAGGTCAAAGACAATGTGAACTCATATTGA
 GAACAGTCAGTAACCAGCACAGCACTGAGAGCCAGGACAATGACCAGCCAGACTATGACAGCGTGGCCTC
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 GACCACAAAGACTGTGAGCCACTCCTCCCTGAAGCGCCGCCATCAGCCCGGGCAGTAGACCCATGT
 CCATGTATGAGACTGGATCAGGCCAGAAACCATACCTCCCAATGGGAGAAGCCAACCACCCTGAAGAAAG
 CCGGACAAGACTTCAGCCCTTCCCCTCATATTGGGAGGAGTCACTTGTGACCTCCTCTTCGTCTCTG
 CCTTCTTCCCCTCCACTTTCTGGTCCAGGGACGAAAGCACCCGAAGGGCCTCCAGGTTGGAGAAGC
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 CCGGAAGGGGCGGAGCGGAGTATGCTCTGGCAAGGTGATGGCCACTGCCAGACACAGCAGAGCCCCAC
 GCGGTCCCAGCCCCGCCTCCCAGCAGAGAAGATGTATCCGCAAGACTGAACAGATCACAAAAACA
 TCCAGGAGCTCCTCAGAGCAGCCAGGAGAACAAGCATGACAGCTACATTCCTGCTCAGAGAGGATACA
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 CGCCTACTAACGGCCAGTGCCTACCGGCTCCAGTCAGAGTGCAGAAAGGCTCTCCAGGAGACTCGAGCT
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 ACAGCTGGTCACAATCACCACCAAGAGAACAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211288 representing NM_001005553
 Red=Cloning site Green=Tags(s)

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MSKRLRSNDVDCDCSGPDPASVNRGTLICDECCSVHRSLSGRHISQVRHLKHTPWPTLLQMVELYSN
GANSIWEHSLLDPASVMSGRKANPQDKVHPNKAEIFIRAKYQMLAFVHRLPCRDDSVTAKDLSKQLHSS
VRTGNLETCLRLLSLGAQANFFHPEKGSTPLHVASKAGQILQAELLAVYGADPGTHDSSGKTPVDYARQG
GHRELAERLVEIQYELTDRLAFYLCGRKPDHKNQHFIIIPQADSSLDLSELAKAARKKLQSLSNHLFEE
LAMDVYDEVDRETDVWLATQNHSTLVTETTVPFLPVNPEYSSTRNQGRQKLARFNAHEFATLVIDIL
SDAKRRQQGSPLSRSKDNVELILRTVSNQHSTESQDNDQPDYDSVASDETDVETRASRTNRQKSLDSDL
SDGPVTVQEFMEVKHALVASEAKRQQLMKVNNLSGELRIMQKKLQTLQSENSLRRQATASACQVQTAS
DHKDTVSHSSLRKRSARGSRPMSMYETGSGQKPYLPMGEANHPEESRTRLQPPPTHIGRSALVTSSSSL
PSFPSTLSWSRDESTRRASRLEKQNSTPESDYDNTAYDPEPDDTVSGRKGQRSMWLWQGDGPLPDTAEPH
AVPSPALPSTEDVIRKTEQITKNIQELLRAAQENKHSYIPCSERIHAAVTEMAALFPKPKSDTVRTSL
RLLTASAYRLQSECRKALPGDSSSLPTDVLVTQVVIQCAVDIAKAAKQLVTITTKENS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001005553

ORF Size: 2277 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_001005553.1](#), [NP_001005553.1](#)

RefSeq Size: 3012 bp

RefSeq ORF: 2280 bp

Locus ID: 304546

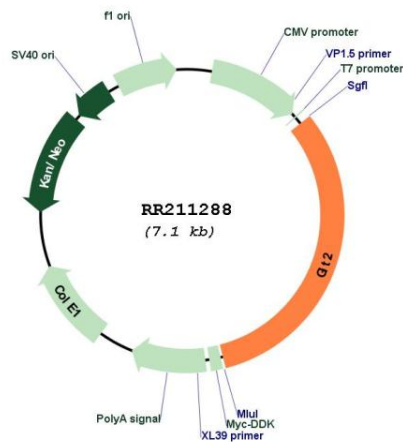
UniProt ID: [Q66H91](#)

Cytogenetics: 12q16

MW: 84.5 kDa

Gene Summary: GTPase-activating protein for ADP ribosylation factor family members, including ARF1. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR211288