

Product datasheet for **MR222164**

Git2 (NM_019834) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Git2 (NM_019834) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Git2
Synonyms:	1500036H07Rik; 5830420E16Rik; 6430510B20Rik; 9630056M03Rik; B230104M05Rik; CAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222164 representing NM_019834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGAAGCGGCTCCGGAGCAGCGACGTGTGCGCCGACTGCAACGGGCCTGATCCTTCCTGGGCGTCAG
 TAAATAGGGGAACTTTCATATGTGACGAATGTTGCAGTGTCCATCGGAGCCTGGGGCGCCATATCTCCA
 AGTGAGGCATCTTAAACACACAGCATGGCCTCCAACCCTGCTCCAGATGGTTGAGACCTGTACAACAAT
 GGTGCTAACTCTATATGGGAACACTCTCTGCTGGACCCTGCCTCTATCATGAGTGGGAGGCGAAAGCTA
 ACCCACAGGACAAAGTTCACCCCAATAAAGCAGAATTCATCAGAGCCAAGTATCAGATGTTAGCGTTCGT
 CCACCGATTGCCCTGCCGCGAGGACGACAGCGTGACGGCCAAAGATCTCAGTAAGCAACTCCATTCAAGT
 GTGAGAACAGGGAATCTTGAGACCTGTCTGAGACTGTTGTCTTTAGGAGCCCAAGCCAATCTTTTCATC
 CTGAAAAAGGAAGCACTCCACTCCAGTCGCCTCAAAGCAGGACAGATCTTACAGGCTGAATTGCTGGC
 CGTGTATGGAGCTGACCCAGGCACACAAGATTCTAGTGGGAAGACTCCTGTTGACTATGCAAGGCAAGGA
 GGGCACCATGAGTTGGCAGAACGCCTCATAGAAATACAGTACGAGCTGACGGATAGACTGGCCTTCTACC
 TCTGCGGCCGGAACCAGATCATAAAAGCGGACAGCACTTTCTAATTCCTCAGAGGGCAGACAGCCTGGA
 TTTGTCTGAGTTGGCAAAAGCTGCGAAGAAGAACTTCAATCTCTGAGTAATCATTTGTTGAAAGAACTT
 GCCATGGATGTGTACGACGAAGTTGACAGGCGAGAGACTGACGCAGTCTGGCTTGCCACGCAGAACCACA
 GTACCTTGGTAACCGAGACGACCGTCTGTCCTTTCCTTCCGGTCAACCCTGAGTACTCCTCCACACGAAA
 CCAGGGCAGACAGAAATTAGCTCGGTTTAAAGCCACGAGTTTGTACGCTGGTTCATCGACATCCTCAGT
 GATGCCAAGAGGAGACAACAGGGCAGTCTCTGTCCAGGTCAAAGACAATGTGGAGCTCATATTGAGAA
 CAGTCAGTACCCAGCACAGCACTGAGAGCCAAGACAACGACCAGCCAGACTATGACAGTGTGGCCTCCGA
 TGAAGACACAGAGCTGGAGACGAGGGCAAGCAAGGCAAACCGGCAGAAAGCTTCAAACCTCTCCAGAGTGAG
 AACTCAAGCCTCAGGAGACAGGCCACAGCCAGTGCCTGTCAGGTGCAGACTGGCTCTGACCAACAAGGACA
 CTGCAAGCCACTCGTCCCTAAAGCGACGGCCATCTGCCCGGGCAGTAGACCCATGTCCATGTACGAGAC
 TGGATCAGGCCAGAAGCCATACCTCCCAATGGGAGAAGCCAGCCACCCTGAGGAGAGCCGGACGAGACTT
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 CCACACTTTCCTGGTCCAGGGACGAAAGCGCCGAAGGGCCTCCAGACTGGAGAAGCAGAACAGCACCC
 GGAGAGTGATTATGACAACACTGCCTGTGACCCTGAGCCAGACGACCGGGTCAACCCGGAAGGGACGG
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 GCGAGCAGCCCAGGAGACAAGCATGACAGCTATATCCCTGCTCAGAGAGGATACACGTTGCTGTAACC
 GAGATGGCAGCCCTGTTCCCAAAAAACCAAGTCTGACACGGTGAGGACTTCCCTCCGCTACTCACGT
 CCAGTGCCTACCGGCTCCAGTCGGAGTGCAAGAAAGGCTCTCCAGGAGACTCCAGCTTACCCACAGATGT
 GCAGCTGGTCACACAGCAGGTATCCAGTGTGCCTATGACATCGCCAAGGCCGCCAAACAGCTGGTCACA
 ATCACCACCAAAGAGAACAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222164 representing NM_019834
 Red=Cloning site Green=Tags(s)

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MSKRLRSSDVCADCNGPDPSPWASVNRGTFICDECCSVHRS�GRHISQVRHLKHTAWPPTLLQMVELYNN
GANSIWEHSLLDPASIMSGRRKANPQDKVHPNKAEIFIRAKYQMLAFVHRLPCREDDSVTAKDLSKQLHSS
VRTGNLETCLRLLSLGAQANFFHPEKGSTPLHVASKAGQILQAELLAVYGADPGTQDSSGKTPVDYARQG
GHHELAERLIEIQYELTDRLAFYLCGRKPDHKSQHFLLIPQRADSLDLSELAKAAKKLQSLSNHLFEEL
AMDVYDEVDRRETDVAVLATQNHSTLVTEITVVPFLPVNPEYSSSTRNQGRQKLARFNAHEFATLVIDILS
DAKRRQQGSPLSRSKDNVELILRTVSTQHSTESQDNDQPDYDSVASDETDVETRASKANRQKLQTLQSE
NSSLRRTATASACQVQTGSDHKDTASHSSLKRRPSARGSRPMSMYETGSGQKPYLPMGEASHPEESRTRL
QPFPTHIGRSALVTSSSLSPFPSTLSWSRDESARRASRLKQNSTPESDYDNTACDPEPDDTGSTRKGR
QRSMLWQGDGLLPDAEPHSPVSPSTLPSTEDVIRKTEQITKNIQELLRAAQENKHDSYIPCSERIHVAVT
EMAALFPKKPKSDTVRTSLRLLTSSAYRLQSECRKALPGDSSLPTDVQLVTQQVIQAYDIAKAAKQLVT
ITTKENSS
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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_019834

ORF Size: 2124 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_019834.3](#), [NP_062808.3](#)

RefSeq Size: 5027 bp

RefSeq ORF: 2127 bp

Locus ID: 26431

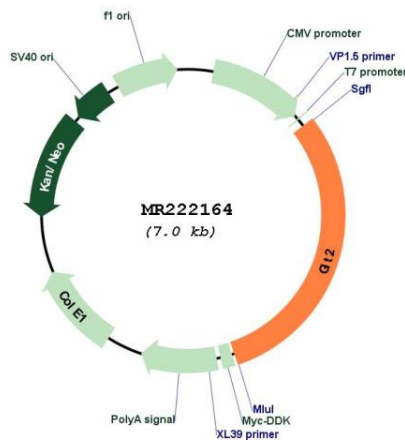
UniProt ID: [Q9JLQ2](#)

Cytogenetics: 5 F

MW: 79.2 kDa

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

Product images:



Circular map for MR222164