

Product datasheet for **RR210184**

Gif (NM_017162) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gif (NM_017162) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gif
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210184 representing NM_017162 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGAAGGCATGGCCTGGCTTTCTTCTACCTCCTAAATGTTCTCTGGGCTGTGGCAGGAACCAAGTA
CCAGAGCCCGAGCGCTCTTGCTCTGTCCCCCAGATCAGCAGCCCTGGGTCAATGGCCTACAATTGCTCAT
GGAAACTCAGTAAGTGAAGTCAAGCTCCTGACTTACCAGCTCATGGCCAGTGACAGTGACAGCTGACAAATG
GGCAGCTCGCCCTCACCATTATGGCTCTCACCTCCTCTGCCGAGACCCTGGAAGTAAAGTGCCATTCT
ACAAAAGAATATGGAGAGCTGGACACCTTCAAACCTGGGTGCTGAATCCTCATCCTTCTATGGGCTGCT
CTGGCGATCCTTGCACTGTGCCAGAAGAACTCAGAGGCAACCTTACCCATCGCGGTGCGCTTCGCTAAGA
CCCTCATGATGGAATCCTCTCCCTTCAGTGTGGACACAGGAGCAGTGGCAACCTTGGCCCTGACATGCAT
GTACAACAGGATTCCTGTGGTTCTCAGGAAACTACAGAGACCTGTTTGGTCAGGCACTGAAGGTTATT
GTGGATAATATCAGCTTGAGGATCAAAGCTGATGGTATTATTGGAGACATCTACAGCACTGGCCTTGCCA
TGCAGGCTCTCTGTGACACCTGAGCAACCTACCAAAGAGTGGGACTGTGAGAAGACTATGTATACGAT
ACTCAAGGAGATTAAGCAGGGGAAATCCAGAACCCCATGTCCATTGCCAGATTCTCCCTTCTTGAAA
GGCAAGACTTACCTAGATGTGCCCAAGTAACGTGTGGCCCTGATCATGAAGTGGCCCAACTTTAACTG
ACTATCTACCCGGTCCCACTTCAATATCTAATATCACAGTCATATACACCATAAACAACCAAGCTGAG
GGGGGTTGATCTGCTTTCAATGTGACCATCGAGGTTAGTGTGAAAAGTGATCTGTGCTCCTTGCTGTC
CTGGAAGAAGCGCAGCGCAGAAACCATGTTCAAATTTGAAACCAATGACATCCTGGGGCCTTATTG
TCTCTTATCAACAATATCGTGAGAATGTTAAGCACAAGACCTATTGGGAGTTCCTAGTGGCAAAAC
GCCTTTGGGTGAAGGGTTGCATACTATATCCCTTCAACTACGAGCACATCACAGCCAACCTTACCCAA
TAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210184 representing NM_017162
 Red=Cloning site Green=Tags(s)

MWKGMAWLSFYLLNVLWAVAGTSTRAQRSCSVPPDQQPWVNLQLLMENSVTESDLPNPSILIAMNLAST
 YNLEAQKLLTYQLMASDSADLTNGQLALTIMALTSSCRDPGSKVSILQKNMESWTPSNLGAESSFYGPA
 LAILALCQKNSEATLPIAVRFAKTLMMESSPFVSDTGAVATLALTCMYNRIPVGSQENYRDLFGQALKVI
 VDNISLRKADGIIGDIYSTGLAMQALSVTPEQPTKEWDCEKMTYILKEIKQGFQNPMSIAQILPSLK
 GKTYLDVPQVTCGPDHEVPPTLTDYPTPVPTSISNITVIYITINNQLRGVDLLFNVTIEVSVKSGSVLLAV
 LEEAQRNRNMFKFETMTSWGLIVSSINNIAENVKHKTYWEFLSGKTPLGEGVAYYIPFNYEHITANFTQ
 Y

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_017162

ORF Size: 1263 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_017162.3](#), [NP_058858.1](#)

RefSeq Size: 1352 bp

RefSeq ORF: 1266 bp

Locus ID: 29319

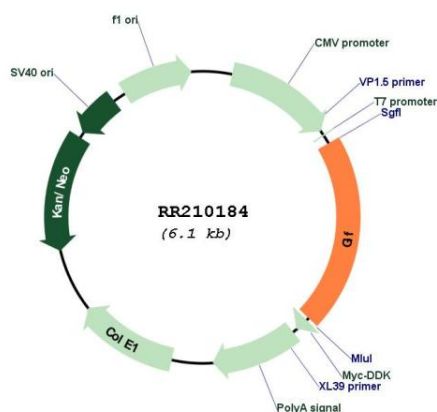
UniProt ID: [P17267](#)

Cytogenetics: 1q43

MW: 46.5 kDa

Gene Summary: binds vitamin B12 (cobalamin) [RGD, Feb 2006]

Product images:



Circular map for RR210184