

Product datasheet for **RR202506**

Ggcx (NM_031756) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggcx (NM_031756) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ggcx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RR202506 representing NM_031756
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTCCACCGTGGCTCTGCACGAGCTGCTCCCGCCTCAGATAAAGTACAGAAAAACAAGCCTGCAC
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 CTGGCAGAGTGTCTGACCCCTACTTAACCGACCAACGGACCCTGCAAACCTGGCTGTCTTCCGTTTTCTC
 TTTGCATTCTTGATGCTGCTGGACATCCCCAGGAACGGGGCCTTAGCTCCCTGGACGAAAATACTTGG
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 AGAGCCAGATTCTGAGCATGTTCACTCTGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RR202506 representing NM_031756
Red=Cloning site Green=Tags(s)

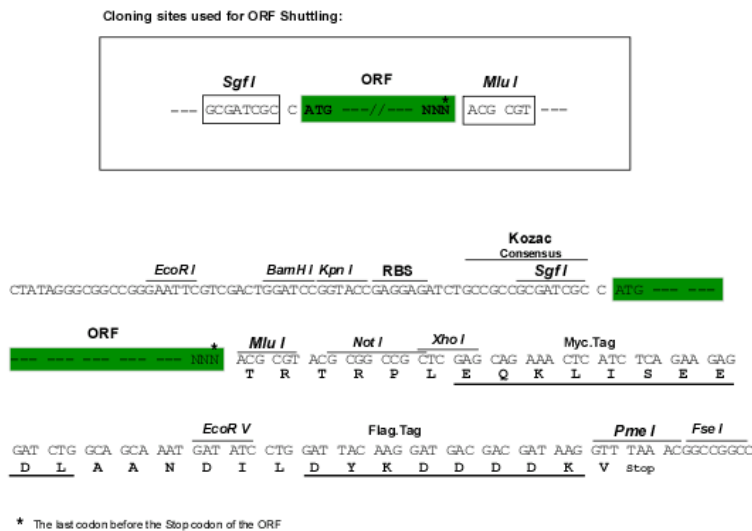
MAVHRGSARAAPASDKVQKNKPAQTSGLEQGSRMARIFGF EWADLSSWQSVVTTLLNRPTDPANLAVFRFL
 FAFLMLLDIPQERGLSSLDKRYLDGLDVCRFPLLDALRPLPLDWMYL VYTIMFLGALGMMLGLWYRLSCM
 LFLLPYWYVFLDKTSWNNHSYL YGLLAFQLTFMDANHYWSDGLLSAQKKNHVPLWNYTVLRGQIFIV
 YFIAGVKKLDADWVEGYSM EHL SRHWFSPFKLVLSEELT SLLVVHWCGLLLDL SAGFLFFDASRPIGL
 YFVSYFHCMSQLFSIGMFPYVMLASSPLFCSAEWPRKLVARCPKRLQELLPAKAAPRPSASCVCYKRARA
 KAGQKPGLRHHLGTVFTLLYLLEQLFLPYSHFLTQGYNNWTNGLYGYSDMMVHSRSHQHV KITYRDGLT
 GELGYLNPGVFTQSRWKDHADMLKQYATCL SLLLPKYNVTEPQIYFDI WVSINDRFQQR LFDPRVDIVQ
 AVWSPFR RTPWVQPLMDLSPWRTKLQDIKSSLDNHT EVVFIADFPGLHLENFVSEDLGNTSIQLLQGEV
 TVELVAEQKNQTLREGEKMQLPAGEYHKVYTVSSSPSCYMIYVNTTEVALEQDLAYLQELKEKVENGSE
 TGPLPELQPLLEGEVKGGPEPTPLVQTF LRRQRK LQEIERRNSPLHERFLRFVLRKLYVFRSFLMTR
 ISLRNLLFGRPSLEQLAQEVTYANLRPFEPVDESSASNTDSSDPHPSEPDSEHVHSEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_031756

ORF Size: 2274 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_031756.1](#), [NP_113944.1](#)

RefSeq Size: 2754 bp

RefSeq ORF: 2277 bp

Locus ID: 81716

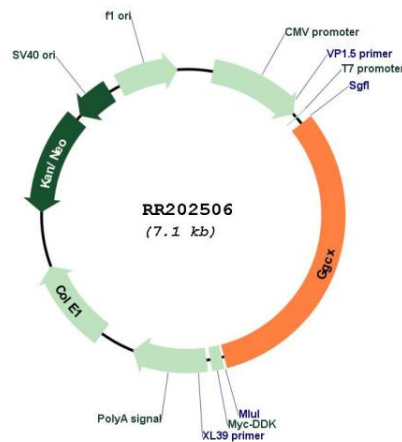
UniProt ID: [O88496](#)

Cytogenetics: 4q31

MW: 87.5 kDa

Gene Summary: catalyzes the posttranslational modification of glutamate to gamma-carboxyglutamate (Gla); may mediate functions of vitamin K-dependent proteins (VKDPs) [RGD, Feb 2006]

Product images:



Circular map for RR202506