

Product datasheet for **MR226442**

Ggcx (NM_019802) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggcx (NM_019802) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ggcx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226442 representing NM_019802
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTGCACCGCGGCTCCGCACTGGTTGCTCCCGCCTCAGATAAAGTACAGAAAAACAAGTCTGCAC
 AGACATCAGGACTGAAACAGGGCAGCCGAATGGAGAAAATTTTAGGGTTTGAATGGACAGATTTATCTAG
 CTGGCAGAGTGTCTGACCCCTGCTTAACAAACCAACGGACCCCTGCAAACCTGGCTGTCTTTCTGTTTTCTC
 TTTGCTTTCTTGATGCTGCTGGACATTCGCCAGGAACGCGGCCTTAGCTCCCTGGACCGAAAATACTTGG
 ATGGGCTGGATGTGTGCCGTTTCCCTTCTGCTGGATGCCTTGCGCCACTGCCACTGGACTGGATGTATCT
 TGTCTACACCATCATGTTTCTGGGGCACTGGGCATGATGCTGGGGCTATGCTACCGCTAAGCTGTGTG
 TTATTCCTGCTACCGTACTGGTACGTGTTTCTCCTGGACAAGACTTCGTGGAACAATCACTCCTATCTGT
 ATGTTTTGTTGGCCTTTCAGTTGACATTCATGGATGCAAACCACTACTGGTCTGTGGATGGCTTGTGAA
 TGCCCGAAAGAAGTGTCTCACGTGCCCTTTGGAACACACAGTTCTGCGTGGCCAGATCTTCATCGTG
 TACTTCATCGCGGTGTGAAGAAGCTCGATGCTGACTGGGTTGGGGGCTACTCCATGGAGACCTGTCCC
 GGCACTGGCTCTTCAGTCCCTTCAAGCTGGTGTGTCGGAGGAGCTGACAAGCCTGCTGGTAGTACACTG
 GTGTGGGCTTCTCCTTGACCTCTCGGCTGGCTTCTGCTCTTCTTTGATGCCTCCAGACCCGTCGGCCTG
 TTCTTCGTGTCCTACTTTCAGTGCATGAACTCGCAGCTTTCAGCATCGGGATGTTTCCCTATGTGATGC
 TGGCCAGCAGCCCTCTCTTCTGCTCAGCTGAATGGCCTCGGAAGTTGGTAGCCCGATGCCGAAAAGGCT
 GCAAGAGCTGTGCCACCAAGCCGCTCCTCGGCCTAGTGCTTCTGTGTGATAAGAGGTCCCGGGG
 AAAGCTGGCCGAAGCCCGGGCTGCCACCAGCTGGGAGCCATTTACCCCTGCTACCTCCTAGAGC
 AGCTCTTCTGCCCTATTCACCTTCTGACCCAGGGTTACAATAACTGGACAAAATGGGCTGATGGCTA
 TTCCTGGGACATGATGGTGCACCTCCCGCTCCACCCAGCAGTAAAGATCACCTACCGCGACGGCCTCACG
 GCGAGCTGGGCTACCTAACCCTGGGGTATTCACACAGAGCCGCGATGGAAGGATCATGCAGACATGC
 TGAAGCAATATGCCACTTGCCTGAGCCTCCTGCTTCCCAAGTACAATGCTACTGAGCCCCAGATCTACTT
 TGATATTTGGGTCTCCATCAATGACCGCTTCCAGCAGAGGCTTTTTGACCCTCGTGTGGACATCGTGACG
 GCTGTCTGGTCCCTTCCAGCGCACACCTTGGGTGCAGCCACTTGTGATGGATTTATCTCCCTGGAGGA
 CCAAGTTACAGGATATTAAGAGCAGTCTGGACAACCACACCGAGGTGGTCTTCATTGCAGATTTCCCTGG
 GCTTCACTTGAGAATTTGTGAGTGAAGACCTGGGCAACACTAGCATCCAGCTGCTGCAGGAGAAGTC
 ACCGTGGAATTTGGTGGCAGAACAGAAAAATCAGACTCTTCAAGAAGGAGAGAAAAATGCAGTTGCCTGCTG
 GAGAGTACCATAAAGTCTATACTGTATCATCTAGTCTTCTGCTACATGTACGTCTATGTCAACACTAC
 AGAGGTCGCACTGGAGCAAGACCTGGCATATCTGCAAGAATTAAGGAGAAGGTGGAGAACGGAAGTGAA
 ACAGGGCCCTGCCTCCAGAACTTACGCTCTTTTGAAGGGGAAGTAAAAGGGGGCCCTGAGCCAAAC
 CTCTGGTCCAACTTTTCTCAGACGACAGAGGAAGCTCCAAGAAATTAAGCGCAGCGGAAATAGCCCTT
 CCATGAGCGATTTCTCCGCTTCTGTGCTGCGAAAGCTCTACGTCTTTCGACGCAGCTTCTGATGACTCGA
 ATTTCACTCCGAAACCTGCTATTAGGCCGCCCTCCCTAGAGCAACTAGCCCAAGAGGTGACATATGCAA
 ACTTGGCACCATTGAACAGTTGATGAGTCAAGTGCTTCAAACACAGATTTCTCAAATCACCCGTCAGA
 GCCAGATTCTGAGCATGTTCACTCTGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226442 representing NM_019802
Red=Cloning site Green=Tags(s)

MAVHRGSALVAPASDKVQKNKSAQTSGLKQGSRMEKILGFWDLSSWQSVVTLNKPDPANLAVFRFL
 FAFLMLLDIPQERGLSSLDRKYLDGLDVCRFPLLDALRPLPLDWMYLVYIMFLGALGMMLGLCYRLSCV
 LFLLPYWYVFLDKTSWNNHSYL YGLLAFQLTFMDANHYWSDVGLLNARKKNAHVPLWNYTVLRGQIFIV
 YFIAGVKKLDADWVGGYSMEHL SRHLFSPFKLVLSEELTSLLVVHWCGLLLDL SAGFLFFDASRPVGL
 FFVSYFHCMSQLFSIGMFPYVMLASSPLFCSAEWPRKLVARCPKRLQELLPTKAAPRPSASCYKRSRG
 KAGPKPLRHQLGAI FTLLYLLEQLFLPYSHFLTQGYNNWTNGLYGYSDMMVHSRSHQHV KITYRDGLT
 GELGYLNPGVFTQSRRWKDHADMLKQYATCL SLLL PKYNVTEPQIYFDI WVSINDRFQQR LFDPRVDIVQ
 AVWSPFQRTPWVQPLMDLSPWRTKLQDIKSSLDNHTEVVFIADFPGLHLENFVSEDLGNTSIQLLQGEV
 TVELVAEQKNQTLQEGEKMQLPAGEYHKVYTVSSSPSCYMYVYVNTTEVALEQDLAYLQELKEKVENGE
 TGPLPELQPLLEGEVKGGPEPTPLVQTF LRRQRKLEIERRNSPFHERFLRFVLRKLYVFRSFLMTR
 ISLRNLLLGRPSLEQLAQEVTYANLRPFEPVDESSASNTDSSNHPSEPDSEHVHSEF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

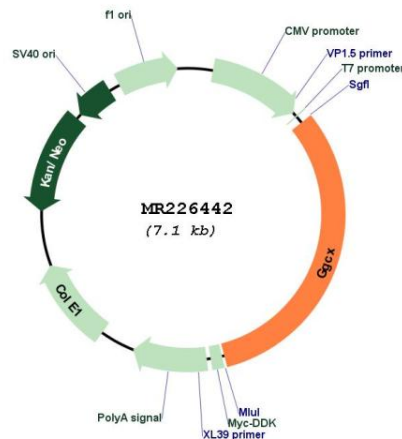
ACCN: NM_019802

ORF Size: 2271 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:	<ol style="list-style-type: none"> 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:	<u>NM_019802.5, NP_062776.1</u>
RefSeq Size:	3323 bp
RefSeq ORF:	2274 bp
Locus ID:	56316
UniProt ID:	<u>Q9QYC7</u>
Cytogenetics:	6 C1
MW:	87.6 kDa
Gene Summary:	Mediates the vitamin K-dependent carboxylation of glutamate residues to calcium-binding gamma-carboxyglutamate (Gla) residues with the concomitant conversion of the reduced hydroquinone form of vitamin K to vitamin K epoxide.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR226442