

Product datasheet for **RC226869**

GGCX (NM_001142269) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGCX (NM_001142269) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GGCX
Synonyms:	VKCFD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC226869 representing NM_001142269
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGTGTCTGCCGGTCCGCGGGACCTCGCCAGCTCAGGGTTCCTGATGGTGCTAGACATCCCC
 AGGAGCGGGGCTCAGCTCTCTGGACCGAAATACCTTGATGGGCTGGATGTGTGCCCTCCCCCTTGCT
 GGATGCCCTACGCCCACTGCCACTTGACTGGATGTATCTTGCTACACCATCATGTTTCTGGGGCACTG
 GGCATGATGCTGGGCCTGTGCTACCGGATAAGCTGTGTATTCTGCTGCCATACTGGTATGTGTTTC
 TCCTGGACAAGACATCATGGAACAACCACTCCTATCTGTATGGGTTGTTGGCCTTCAGCTAACATTCAT
 GGATGCAAACCACTACTGGTCTGTGGACGGTCTGCTGAATGCCCATAGGAGGAATGCCACGTGCCCTT
 TGGAACTATGCAGTGCTCCGTGGCCAGATCTTCATTGTGTAATTCATTGCGGGTGTGAAAAGCTGGATG
 CAGACTGGGTTGAAGGCTATCCATGGAATATTTGTCCCGCACTGGCTCTTCAGTCCCTCAAACCTGCT
 GTTGTCTGAGGAGCTGACTAGCCTGCTGGTCTGCTGACTGGGGTGGGCTGCTGCTTACCTCTCAGCTGGT
 TTCTGCTCTTTTTGATGTCTCAAGATCCATTGGCCTGTTCTTTGTGTCTACTTCCACTGCATGAATT
 CCCAGCTTTTCAGCATTGGTATGTTCTCTACGTCATGCTGGCCAGCAGCCCTCTCTTCTGCTCCCCGTA
 GTGGCCTCGGAAGCTGGTGTCTACTGCCCGGAAGTTGCAACAACCTGTTGCCCTCAAGGCAGCCCT
 CAGCCAGTGTTCCTGTGTGATAAGAGGAGCCGGGCAAAAGTGGCCAGAAGCCAGGGCTGCGCCATC
 AGCTGGGAGCTGCCTTACCCTGCTCTACCTCTGGAGCAGCTATTCTGCCCTATTCTCATTCTCAC
 CCAGGGCTATAACAACCTGGACAATGGGCTGTATGGCTATTCTGGGACATGATGGTGCCTCCCGCTCC
 CACCAGCAGTGAAGATCACCTACCGTGTGGCCGCACTGGCGAAGTGGGCTACCTAACCTGGGGTAT
 TTACACAGAGTCGGCGATGGAAGGATCATGCAGACATGCTGAAGCAATATGCCACTTGCCTGAGCCCT
 GCTTCCCAAGTATAATGTCAGTCACTGAGCCCAAGTCTACTTTGATATTTGGGTCTCCATCAATGACCGCTT
 CAGCAGAGGATTTTTGACCCTCGTGTGGACATCGTGCAGGCCGCTTGGTACCCTTTTCAGCGCACATCCT
 GGGTGCAACCACTCTTGATGGACCTGTCTCCCTGGAGGGCAAGTTACAGGAAATCAAGAGCAGCCTAGA
 CAACCACACTGAGGTGGTCTTCATTGCAGATTTCCCTGGACTGCCTTGGAGAATTTTGTGAGTGAAGAC
 CTGGGCAACACTAGCATCCAGCTGCTGCAGGGGAAGTACTGTGGAGCTTGTGGCAGAACAAGAACC
 AGACTCTCGAGAGGGAGAAAAATGCAGTTGCCTGCTGGTGTGAGTACCATAAGGTGTATACGACATCACC
 TAGCCCTTCTTGCTACATGTACGTCTATGTCAACACTACAGAGCTTGCCTGGAGCAAGACCTGGCATAT
 CTGCAAGAATTAAGGAAAAGGTGGAGAATGGAAGTGAACAGGGCCTTACCCCAAGAGCTGCAGCCTC
 TGTGGAAGGGGAAGTAAAGGGGGCCCTGAGCCAACACCTCTGGTTTCAGACCTTTCTTAGACGCCAACA
 AAGGCTCCAGGAGATTGAACGCCGGCGAAATACTCTTCCATGAGCGATTCTTCCGCTTCTTGTGCGA
 AAGCTCTATGTCTTTCGCCGAGCTTCTGATGACTTGTATCTCACTTCGAAATCTGATATTAGGCCGTC
 CTTCCCTGGAGCAGCTGGCCAGGAGGTGACTTATGCAAACCTTGGAGCCCTTGGAGCAGTTGGAGA
 GAATCCCTCAAACACGGATTCTTCACATTCTAATCCTCCTGAGTCAAATCCTGATCCTGTCCACTCAGAG
 TTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226869 representing NM_001142269
Red=Cloning site Green=Tags(s)

MAVSAGSARTSPSSGFLMVLDPQERGLSSLDKYL DGLDVCRFPLLDALRPLPLDWMYL VYTIMFLGAL
 GMLGLCYRISCVLFLLPYWYVFLDKTSWNNHSYL YGLLAFQLTFMDANHYWSVDGLLNAHRRNAHVPL
 WNYAVLRGQIFIVYFIAGVKKLDADWVEGYSM EYLSRHWLFSPFKLLLSEELTSLLVVHWGGLLDL SAG
 FLLFFDVSRSIGLFFVSYFHCMSQLFSIGMF S YVMLASSPLFCSPWPVKLVSYCPRRLLQLLPLKAAP
 QPSVSCVYKRSRGKSGQKPLRHQLGAFTLL YLLEQLFLPYSHFLTQGYNNWTNGLYGYSDMMVHSRS
 HQHVKITRYDRGTGELGYLNPGVFTQSRRWK DHADMLKQYATCLSRLLPKYNVTEPQIYFDIWSINDRF
 QQRIFDPRVDIVQAAWSPFQRTSWVQPLMDL SPWRAKLQEIKSSLDNHTEVVF IADFPGLHLENFVSED
 LGNTSIQLLQGEVTVELVAEQNQTLREGEKM QLPAGEYHKVYTTSPSPSCYMYVYVNTTELAL EQDLAY
 LQELKEKVENGETGPLPELQPLLEGEVKGG PEPTPLVQTFLLRQRLQEIERRRNTPFHERFFRFLLR
 KLYVFRSFLMTCISLRNLILGRPSLEQLAQE VTYANLRPF EAVGELNPSNTDSSHSNPPE SNPDPVHSE
 F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001142269

ORF Size: 2103 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_001142269.4](#)

RefSeq Size: 7304 bp

RefSeq ORF: 2106 bp

Locus ID: 2677

UniProt ID: [P38435](#)

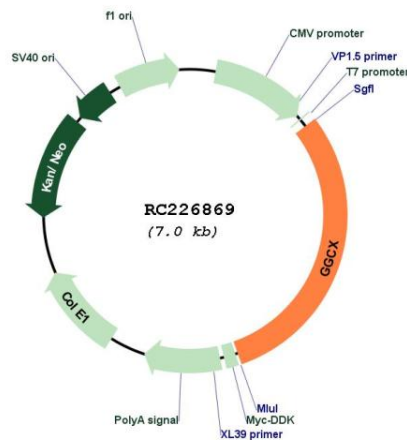
Cytogenetics: 2p11.2

Protein Families: Druggable Genome, Transmembrane

MW: 81 kDa

Gene Summary: This gene encodes an integral membrane protein of the rough endoplasmic reticulum that carboxylates glutamate residues of vitamin K-dependent proteins to gamma carboxyl glutamate, a modification that is required for their activity. The vitamin K-dependent protein substrates have a propeptide that binds the enzyme, with carbon dioxide, dioxide, and reduced vitamin K acting as co-substrates. Vitamin K-dependent proteins affect a number of physiologic processes including blood coagulation, prevention of vascular calcification, and inflammation. Allelic variants of this gene have been associated with pseudoxanthoma elasticum-like disorder with associated multiple coagulation factor deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RC226869