

Product datasheet for **SC320393**

GGCX (NM_000821) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGCX (NM_000821) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGCX
Synonyms:	VKCFD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000821.3
 GTGACCCACCTGCCTCCTCCGACAGCAATGGCGGTGTCTGCCGGGTCCGCGGGACCTC
 GCCCAGCTCAGATAAAGTACAGAAAGACAAGGCTGAACTGATCTCAGGGCCAGGCAGGA
 CAGCCGAATAGGGAACTCTTGGGTTTTGAGTGGACAGATTTGTCCAGTTGGCGGAGGCT
 GGTGACCTGCTGAATCGACCAACGGACCCTGCAAGCTTAGCTGTCTTTTCGTTTTCTTTT
 TGGGTTCTTGATGGTGTAGACATTCGCCAGGAGCGGGGCTCAGCTCTCTGGACCGGAA
 ATACCTTGATGGGCTGGATGTGTGCCGCTTCCCCTTGCTGGATGCCCTACGCCACTGCC
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 GAGCCGCTGCTCCCAAGTATAATGTCCTGAGCCCCAGATCTACTTTGATATTTGGGT
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 CGTTGGTACCCTTTCAGCGCACATCCTGGGTGCAACCACTCTTGATGGACCTGTCTCC



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CTGGAGGGCCAAGTTACAGGAAATCAAGAGCAGCCTAGACAACCACACTGAGGTGGTCTT
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AATGCAGCTTAAACATGTTTTCTTAATTAAGTATAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:

Please inquire

ACCN:

NM_000821

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_000821.3](#), [NP_000812.2](#)

RefSeq Size: 3236 bp

RefSeq ORF: 2277 bp

Locus ID: 2677

UniProt ID: [P38435](#)

Cytogenetics: 2p11.2

Domains: VKG_Carbox

Protein Families: Druggable Genome, Transmembrane

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.