

# Recombinant Human GGCX

**Cat. No.** GGCX-29018TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment corresponding to amino acids 533-629 of Human GGCX with an N terminal proprietary tag; Predicted MWt 36.3 kDa.                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 97 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This gene encodes an enzyme which catalyzes the posttranslational modification of vitamin K-dependent protein. Many of these vitamin K-dependent proteins are involved in coagulation so the function of the encoded enzyme is essential for hemostasis. Mutations in this gene are associated with vitamin K-dependent coagulation defect and PXE-like disorder with multiple coagulation factor deficiency. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Molecular Weight</b> | 36.300kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage buffer</b>   | pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw                                                                                                                                                                                                                                                                                                                                                                                                                     |

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cycles.

**Sequences of amino acids**

ADFPGLHLENFVSEDLGNTSIQLLQGEVTVELVAEQKNQTLREGEKMQLPAGEYHK  
VYTTSPSPSCYMYVYVNTTELALEQDLAYLQELKEKVENG

**Sequence Similarities**

Belongs to the vitamin K-dependent gamma-carboxylase family.

## GENE INFORMATION

**Gene Name**

GGCX gamma-glutamyl carboxylase [ Homo sapiens ]

**Official Symbol**

GGCX

**Synonyms**

GGCX; gamma-glutamyl carboxylase; vitamin K-dependent gamma-carboxylase; vitamin K dependent gamma carboxylase; VKCFD1;

**Gene ID**

2677

**mRNA Refseq**

NM\_000821

**Protein Refseq**

NP\_000812

**MIM**

137167

**Uniprot ID**

P38435

**Chromosome Location**

2p12

**Pathway**

Gamma-carboxylation of protein precursors, organism-specific biosystem; Gamma-carboxylation, transport, and amino-terminal cleavage of proteins, organism-specific

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biosystem; Metabolism of proteins, organism-specific biosystem; Post-translational modification: gamma carboxylation and hypusine formation, organism-specific biosystem; Post-translational protein modification, organism-specific biosystem;

**Function**

gamma-glutamyl carboxylase activity; lyase activity;

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