

# Recombinant Human GLT25D1, GST-tagged

**Cat. No.** GLT25D1-13317H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GLT25D1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-231a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | This gene is a member of the prenyltransferase family and encodes a protein with geranylgeranyl diphosphate (GGPP) synthase activity. The enzyme catalyzes the synthesis of GGPP from farnesyl diphosphate and isopentenyl diphosphate. GGPP is an important molecule responsible for the C20-prenylation of proteins and for the regulation of a nuclear hormone receptor. Alternate transcriptional splice variants, both protein-coding and non-protein-coding, have been found for this gene. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| <b>Gene Name</b> | COLGALT1 collagen beta(1-O)galactosyltransferase 1 [ Homo sapiens (human) ] |
|------------------|-----------------------------------------------------------------------------|

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|                            |                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | COLGALT1                                                                                                                                                                 |
| <b>Synonyms</b>            | GLT25D1I; procollagen galactosyltransferase 1; hydroxylysine galactosyltransferase 1; glycosyltransferase 25 family member 1; glycosyltransferase 25 domain containing 1 |
| <b>Gene ID</b>             | 79709                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_024656.2                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_078932.2                                                                                                                                                              |
| <b>UniProt ID</b>          | Q8NBJ5                                                                                                                                                                   |
| <b>Chromosome Location</b> | 19p13.11                                                                                                                                                                 |
| <b>Pathway</b>             | Collagen biosynthesis and modifying enzymes; Collagen formation; Extracellular matrix organization; Lysine degradation; Other types of O-glycan biosynthesis             |

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