

## Recombinant Human POMGNT1, His-tagged

**Cat. No.** POMGNT1-27934TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment, corresponding to amino acids 408-660 of Human POMGNT1 with N terminal His tag; 42 kDa ;                                                                                                                                                                                                                                      |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>      | 408-660 a.a.                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>        | The protein encoded by this gene is a type II transmembrane protein that resides in the golgi. It participates in O-mannosyl glycosylation, and is specific for alpha linked terminal mannose. Mutations in this gene are associated with muscle-eye-brain (MEB) disease. Alternatively spliced transcript variants have been found for this gene. |
| <b>Conjugation</b>        | HIS                                                                                                                                                                                                                                                                                                                                                |
| <b>Tissue specificity</b> | Constitutively expressed. An additional weaker band is also detected in spinal cord, lymph node, and trachea. Expressed especially in astrocytes. Also expressed in immature and mature neurons.                                                                                                                                                   |
| <b>Form</b>               | Lyophilised:Reconstitute with 32 µl distilled water.                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>     | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                                                      |

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                |
| <b>Sequences of amino acids</b> | QSIHLLEEDDSLYCISAWNDQGYEHTAEDPALLYRVETMP GLGWVLRRLSYKEELE<br>PKWPTPEKLWDWDMWMRMPEQR RGRECIIPDVSRSYHFGIVGLNMNGYFHEAYF<br>KKHKFN TVPGVQLRNVDLSKKEAYEVEVHRLLSEAEVLDHSKNP CEDSFLPDTEG<br>HTYVAFIRMEKDDDDFTTWTQLAKCLHIWD LDVRGNHRGLWRLFRKKNHFLVVGVP<br>ASPYSVKKPPSV TPIFLEPPPKEEGAPGAPEQT |
| <b>Sequence Similarities</b>    | Belongs to the glycosyltransferase 13 family.                                                                                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | POMGNT1 protein O-linked mannose beta1,2-N-acetylglucosaminyltransferase [ Homo sapiens ]                                                                                                                                       |
| <b>Official Symbol</b> | POMGNT1                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | POMGNT1; protein O-linked mannose beta1,2-N-acetylglucosaminyltransferase; protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase 1; FLJ20277; MGAT1.2; protein O mannose beta 1; 2 N acetylglucosaminyltransferase; |
| <b>Gene ID</b>         | 55624                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_001243766                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_001230695                                                                                                                                                                                                                    |
| <b>MIM</b>             | 606822                                                                                                                                                                                                                          |
| <b>Uniprot ID</b>      | Q8WZA1                                                                                                                                                                                                                          |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 1p34.1                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Other types of O-glycan biosynthesis, organism-specific biosystem; Other types of O-glycan biosynthesis, conserved biosystem;                                                                                                      |
| <b>Function</b>            | alpha-1,3-mannosylglycoprotein 2-beta-N-acetylglucosaminyltransferase activity; beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,3-N-acetylglucosaminyltransferase activity; transferase activity, transferring glycosyl groups; |

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