

# Recombinant Human B3GNT3, His-tagged

**Cat. No.** B3GNT3-10104H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Human B3GNT3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 34-372a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II transmembrane protein and contains a signal anchor that is not cleaved. It prefers the substrates of lacto-N-tetraose and lacto-N-neotetraose, and is involved in the biosynthesis of poly-N-acetyllactosamine chains and the biosynthesis of the backbone structure of dimeric sialyl Lewis x. It plays dominant roles in L-selectin ligand biosynthesis, lymphocyte homing and lymphocyte trafficking. |
| <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 Na2HPO4, 17mM NaH2PO4, 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                    |

## GENE INFORMATION

|                  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| <b>Gene Name</b> | B3GNT3 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3 [ Homo |
|------------------|-----------------------------------------------------------------------------|

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | <a href="#">sapiens ]</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b>     | B3GNT3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | B3GNT3; UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3; TMEM3; B3GN T3; B3GNT 3; beta 1; 3 N acetylglucosaminyltransferase bGnT 3; beta3Gn T3; HP10328; putative type II membrane protein; transmembrane protein 3; beta3GalT8; beta-3-Gx-T8; beta-1,3-Gn-T3; beta-1,3-GalTase 8; core1-beta3GlcNAcT; beta-1,3-N-acetylglucosaminyltransferase bGnT-3; UDP-Gal:beta-GlcNAc beta-1,3-galactosyltransferase 8; core 1 extending beta-1,3-N-acetylglucosaminyltransferase; UDP-galactose:beta-N-acetylglucosamine beta-1,3-galactosyltransferase 8; B3GN-T3; B3GNT-3; B3GAL-T8; beta3Gn-T3; |
| <b>Gene ID</b>             | <a href="#">10331</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | <a href="#">NM_014256</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | <a href="#">NP_055071</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>                 | <a href="#">605863</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | <a href="#">Q9Y2A9</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 19p13.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>             | Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; O-linked glycosylation of mucins, organism-specific biosystem; Post-translational protein modification, organism-specific biosystem;                                                                                                                                                                                    |

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**Function**

galactosyltransferase activity; transferase activity, transferring glycosyl groups;

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