

## Recombinant Human ALG3 Protein, GST-tagged

**Cat. No.** ALG3-464H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Human ALG3 full-length ORF ( NP_005778.1, 1 a.a. - 438 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a member of the ALG3 family. The encoded protein catalyses the addition of the first dol-P-Man derived mannose in an alpha 1,3 linkage to Man5GlcNAc2-PP-Dol. Defects in this gene have been associated with congenital disorder of glycosylation type Id (CDG-Id) characterized by abnormal N-glycosylation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]                                    |
| <b>Molecular Mass</b>   | 76.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MAAGLRKRGRSGSAAQAEG LCKQWLQRAWQERRLLLREPRYTLLVAACLCLA EVG<br>ITFWVIHRVAYTEIDWKAYMAEVEGVINGTYDYTQLQGDTGPLVYPAGFVYIFMGLY<br>YATSRGTDIRMAQNIFAVLYLATLLLVFLIYHQTCKVPPFVFFFMCCASYRVHSIFVLR<br>LFNDPVAMVLLFLSINLLLAQRWGWGCCFFSLAVSVKMNVL LFAPGLL FLLLTQFGF<br>RGALPKLGICAGLQVVLGLPFLENPSGYLSRSFDLGRQFLFHWTNVNWRFLPEALFL<br>HRAFHLALLTAHL TLLLLFALCRWHRTGESILSLLRDPSKRKVPPQPLTPNQIVSTLFT<br>SNFIGICFSRSLHYQFYVWYFHTLPYLLWAMPARWLTHLLRLLVLGLIELSWNTYPST<br>SCSSAALHICHAVILLQLWLGPQPF PKSTQH SKKAH |

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| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Name</b>        | ALG3 ALG3, alpha-1,3- mannosyltransferase [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b>  | ALG3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | ALG3; ALG3, alpha-1,3- mannosyltransferase; not; CDG1D; CDGS4; CDGS6; Not56; NOT56L; D16Ertd36e; dol-P-Man:Man(5)GlcNAc(2)-PP-Dol alpha-1,3- mannosyltransferase; Not56-like protein; asparagine-linked glycosylation 3 homolog (S. cerevisiae, alpha-1,3-mannosyltransferase); asparagine-linked glycosylation 3 homolog (yeast, alpha-1,3-mannosyltransferase); asparagine-linked glycosylation 3, alpha-1,3- mannosyltransferase homolog; asparagine-linked glycosylation protein 3 homolog; carbohydrate deficient glycoprotein syndrome type IV; dol-P-Man-dependent alpha(1-3)-mannosyltransferase; dolichyl-P-Man:Man(5)GlcNAc(2)-PP-dolichyl mannosyltransferase; dolichyl-phosphate-mannose--glycolipid alpha-mannosyltransferase; EC 2.4.1.258 |
| <b>Gene ID</b>          | 10195                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>      | NM_001006941                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>   | NP_001006942                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

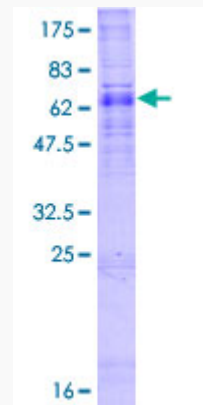
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MIM 608750

UniProt ID Q92685



12.5% SDS-PAGE Stained with Coomassie Blue.

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