

## Recombinant Mouse Alg1 Protein, Myc/DDK-tagged

**Cat. No.** Alg1-1597M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length asparagine-linked glycosylation 1 (beta-1,4-mannosyltransferase) (Alg1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                |
| <b>Species</b>          | Mouse                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                             |
| <b>Description</b>      | Participates in the formation of the lipid-linked precursor oligosaccharide for N-glycosylation. Involved in assembling the dolichol-pyrophosphate-GlcNAc2-Man5 intermediate on the cytoplasmic surface of the ER. |
| <b>Molecular Mass</b>   | 54.9 kDa                                                                                                                                                                                                           |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                        |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                      |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                     |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                   |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                              |

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## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Alg1 asparagine-linked glycosylation 1 (beta-1,4-mannosyltransferase) [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b> | Alg1                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>        | ALG1; asparagine-linked glycosylation 1 homolog (yeast, beta-1,4-mannosyltransferase); chitobiosyldiphosphodolichol beta-mannosyltransferase; beta-1,4 mannosyltransferase; beta-1,4-mannosyltransferase; GDP-Man:GlcNAc2-PP-dolichol mannosyltransferase; asparagine-linked glycosylation protein 1 homolog; GDP-mannose-dolichol diphosphochitobiose mannosyltransferase; HMT1; HMAT1; MGC18946 |
| <b>Gene ID</b>         | 208211                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_145362                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_663337                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>      | Q921Q3                                                                                                                                                                                                                                                                                                                                                                                            |

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