

## Recombinant Human POFUT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** POFUT1-5152H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | POFUT1 MS Standard C13 and N15-labeled recombinant protein (NP_056167) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | This gene encodes a member of the glycosyltransferase O-Fuc family. This enzyme adds O-fucose through an O-glycosidic linkage to conserved serine or threonine residues in the epidermal growth factor-like repeats of a number of cell surface and secreted proteins. O-fucose glycans are involved in ligand-induced receptor signaling. Alternative splicing of this gene results in two transcript variants encoding different isoforms. |
| <b>Molecular Mass</b>   | 43.96 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MGAAAWARPLSVSFLLLLPLPGMPAGSWDPAGYLLYCPCMGRFGNQADHFLGSL<br>AFAKLLNRTLAVPPWIEYQHHKPPFTNLHVSQYQKFKLEPLQAYHRVISLEDFMEKLA<br>PTHWPPEKRVAYCFEVAQQRSPDKKTCPMKEGNPFGPFWDQFHVSNKSELF TGI<br>SFSASYREQWSQRFSPEKHPVLALPGAPAQFPVLEEHRPLQKYMVWSDVMVK TGE<br>AQIHAHLVRPYVGIHLRIGSDWKNACAMLDGTAGSHFMA SPQC VGYSRSTAAPLT<br>MTMCLPDLKEIQRAVKLWVRS LDAQSVYVATDSESYVPELQQLFKGKVKVSLKPE<br>VAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSFFGMDRPPKLRDEFTRT             |

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RPLEQKLISEEDLAANDILDYKDDDDKV

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | POFUT1 protein O-fucosyltransferase 1 [ Homo sapiens (human) ]                                                                                                                                                       |
| <b>Official Symbol</b> | POFUT1                                                                                                                                                                                                               |
| <b>Synonyms</b>        | POFUT1; protein O-fucosyltransferase 1; GDP-fucose protein O-fucosyltransferase 1; FUT12; KIAA0180; O Fuc T; O FUT; o-fucosyltransferase protein; peptide-O-fucosyltransferase 1; O-FUT; O-Fuc-T; O-FucT-1; MGC2482; |
| <b>Gene ID</b>         | 23509                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_015352                                                                                                                                                                                                            |
| <b>Protein Refseq</b>  | NP_056167                                                                                                                                                                                                            |
| <b>MIM</b>             | 607491                                                                                                                                                                                                               |

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**UniProt ID**

Q9H488

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