# Recombinant Full Length Human mannosidase, alpha, class 2B, member 1 Protein, Flag tagged

**Cat. No.** MAN2B1-43HFL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Purified recombinant protein of Homo sapiens mannosidase, alpha, class 2B, member 1 (MAN2B1) with C-Myc/DDK tag was expressed in HEK293. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | 1-1011aa |
| **Description** | This gene encodes an enzyme that hydrolyzes terminal, non-reducing alpha-D-mannose residues in alpha-D-mannosides. Its activity is necessary for the catabolism of N-linked carbohydrates released during glycoprotein turnover and it is member of family 38 of glycosyl hydrolases. The full length protein is processed in two steps. First, a 49 aa leader sequence is cleaved off and the remainder of the protein is processed into 3 peptides of 70 kDa, 42 kDa (D) and 13/15 kDa (E). Next, the 70 kDa peptide is further processed into three peptides (A, B and C). The A, B and C peptides are disulfide-linked. Defects in this gene have been associated with lysosomal alpha-mannosidosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| **Tag** | C-Flag |
| **Molecular Mass** | 108.7 kDa |

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| **AA Sequence** | MGAYARASGVCARGCLDSAGPWTMSRALRPPLPPLCFFLLLLAAAGARAGGYETC<br>PTVQPNMLNVHLLPHTHDDVGWLKTVDQYFYGIKNDIQHAGVQYILDSVISALLADPT<br>RRFIYVEIAFFSRWWHQQTNATQEVVRDLVRQGRLEFANGGWVMNDEAATHYGAI<br>VDQMTLGLRFLEDTFGNDGRPRVAWHIDPFGHSREQASLFAQMGFDGFFFGRLDY<br>QDKWVRMQKLEMEQVWRASTSLKPPTADLFTGVLPNGYNPPRNLCWDVLCVDQP<br>LVEDPRSPEYNAKELVDYFLNVATAQGRYYRTNHTVMTMGSDFQYENANMWFKNL<br>DKLIRLVNAQQAKGSSVHVLYSTPACYLWELNKANLTWSVKHDDFFPYADGPHQF<br>WTGYFSSRPALKRYERLSYNFLQVCNQLEALVGLAANVGPYGSGDSAPLNEAMAVL<br>QHHDAVSGTSRQHVANDYARQLAAGWGPCEVLLSNALARLRGFKDHFTFCQQLNI<br>SICPLSQTAARFQVIVYNPLGRKVNWMVRLPVSEGVFVVKDPNGRTVPSDVVIFPSS<br>DSQAHPPELLFSASLPALGFSTYSVAQVPRWKPQARAPQPIPRRSWSPALTIENEHI<br>RATFDPDTGLLMEIMNMNQQLLLPVRQTFFWYNASIGDNESDQASGAYIFRPNQQK<br>PLPVSRWAQIHLVKTPLVQEVHQNFSAWCSQVVRLYPGQRHLELEWSVGPIPVGDT<br>WGKEVISRFDTPLETKGRFYTDSNGREILERRRDYRPTWKLNQTEPVAGNYYPVNT<br>RIYITDGNMQLTVLTDRSQGGSSLRDGSLELMVHRRLLKDDGRGVSEPLMENGSGA<br>WVRGRHLVLLDTAQAAAAGHRLLAEQEVLAPQVVLAPGGGAAYNLGAPPRTQFSG<br>LRRDLPPSVHLLTLASWGPEMVLLRLEHQFAVGEDSGRNLSAPVTLNLRDLFSTFTI<br>TRLQETTLVANQLREAASRLKWTTNTGPTPHQTPYQLDPANITLEPMEIRTFLASVQ<br>WKEVDGTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | > 0.05 μg/μL as determined by microplate BCA method |
| **Storage Buffer** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |

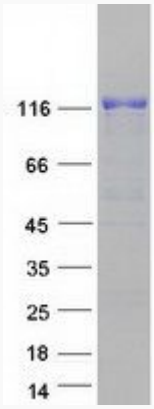
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| **Notes** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |

## GENE INFORMATION

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| **Gene Name** | MAN2B1 mannosidase, alpha, class 2B, member 1 [ Homo sapiens (human) ] |
| **Official Symbol** | MAN2B1 |
| **Synonyms** | MAN2B1; mannosidase, alpha, class 2B, member 1; MANB; lysosomal alpha-mannosidase; LAMAN; mannosidase alpha-B; mannosidase, alpha B, lysosomal; lysosomal acid alpha-mannosidase; |
| **Gene ID** | 4125 |
| **mRNA Refseq** | NM_000528 |
| **Protein Refseq** | NP_000519 |
| **MIM** | 609458 |
| **UniProt ID** | O00754 |

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| **SDS-PAGE** |  |



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