

# Recombinant Full Length Human NAGPA Protein, C-Flag-tagged

**Cat. No.** NAGPA-215HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human NAGPA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Hydrolases are transported to lysosomes after binding to mannose 6-phosphate receptors in the trans-Golgi network. This gene encodes the enzyme that catalyzes the second step in the formation of the mannose 6-phosphate recognition marker on lysosomal hydrolases. Commonly known as 'uncovering enzyme' or UCE, this enzyme removes N-acetyl-D-glucosamine (GlcNAc) residues from GlcNAc-alpha-P-mannose moieties and thereby produces the recognition marker. The encoded preproprotein is proteolytically processed by furin to generate the mature enzyme, a homotetramer of two disulfide-linked homodimers. Mutations in this gene are associated with developmental stuttering in human patients. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 53.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MATSTGRWLLRLALFGFLWEASGGLDSGASRDDDLLLPYPRARARLPRDCTRVRA<br>GNREHESWPPPPAT PGAGGLAVRTFVSHFRDRAVAGHLTRAVEPLRTFSVLEPGG<br>PGGCAARRRATVEETARAADCRVAQNGGF FRMNSGECLGNVVSDEERRVSSSGGL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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QNAQFGIRRDGTLVTGYLSEEEVLDTENPFVQLLSGVVWLIRNGS IYINESQATECD  
 ETQETGSFSKFVNVISARTAIGHDRKGQLVLFHADGQTEQRGINLWEMAEFLLKQDV  
 V NAINLDGGGSATFVLNGTLASYPSDHCQDNMWRCPRQVSTVVCVHEPRCQPPD  
 CHGHGTCVDGYCQCTGH FWRGPGCDELDCGPSNCSQHGLCTETGCRCDAGWT  
 GSNCSEECPLGWHGPGCQRPCKEHHCPCDPKTGN CSVSRVKQCLQPPEATLRA  
 GELSFFTRTAWLALTALAFLLLSIAANLSLLLSRAERNRRLHGDYAYHP  
 LQEMNGEPLAAEKEQPGGAHNPFKDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Transmembrane                                                                                                                                 |
| <b>Protein Pathways</b> | Lysosome                                                                                                                                      |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

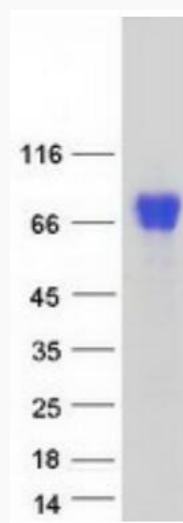
**Gene Name** NAGPA N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase [ Homo sapiens (human) ]

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|                        |             |
|------------------------|-------------|
| <b>Official Symbol</b> | NAGPA       |
| <b>Synonyms</b>        | UCE; APAA   |
| <b>Gene ID</b>         | 51172       |
| <b>mRNA Refseq</b>     | NM_016256.4 |
| <b>Protein Refseq</b>  | NP_057340.2 |
| <b>MIM</b>             | 607985      |
| <b>UniProt ID</b>      | Q9UK23      |



Coomassie blue staining of purified NAGPA protein.

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