

Product datasheet for **SC114360**

NAGPA (NM_016256) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAGPA (NM_016256) Human Untagged Clone
Tag:	Tag Free
Symbol:	NAGPA
Synonyms:	APAA; UCE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114360 sequence for NM_016256 edited (data generated by NextGen Sequencing)

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ATGGCGACCTCCACGGGTCGCTGGCTTCTCCTCCGGCTTGCACTATTCGGCTTCTCTGG
GAAGCGTCCGGCGGCCTCGACTCGGGGGCTCCCGCGACGACGACTTGCTACTGCCCTAT
CCACGCGCGCGCGCGCCTCCCCGGGACTGCACACGGGTGCGCGCCGGCAACCGCGAG
CAGGAGATTGGCTCCGCTCCCGGACTCCCGCGCCGGCGGTCTGGCCGTGCGCACC
TTCTGTGCGCACTTCAGGGACCGCGGTGGCCGGCCACTGACGCGGGCCGTTGAGCCC
CTGCGCACCTTCTCGGTGCTGGAGCCCGGTGGACCCGGCGGTGCGCGGGGAGACGACGC
GCCACCGTGAGGAGACGGCGCGGGCGGCGACTGCCGTGTCGCCAGAACGGCGGCTTC
TTCCGCATGAACTCGGGCGAGTGCCTGGGGAACGTGGTGAGCGACGAGCGGGGTGAGC
AGCTCCGGGGGGCTGCAGAACGCGCAGTTCGGGATCCGCCGCGACGGGACCCTGGTCACC
GGGTACCTGTCTGAGGAGGAGGTGCTGGACTGAGAACCATTGTGTCAGCTGTGAGT
GGGGTCGTGTGGCTGATTCGTAATGGAAGCATCTACATCAACGAGAGCCAAGCCACAGAG
TGTGACGAGACACAGGAGACAGGTTCTTTAGCAAATTTGTGAATGTGATATCAGCCAGG
ACGGCCATTGGCCACGACCGAAAGGGCAGCTGGTGTCTTTTCATGACGACGGCCAAACG
GAGCAGCGTGGCATCAACCTGTGGGAAATGGCGGAGTTCCTGCTGAAACAGGACGTGGTC
AACGCCATCAACCTGGATGGGGGTGGCTCTGCCACCTTTGTGCTCAACGGGACCTTGCC
AGTTACCCGTCAGATCACTGCCAGGACAACATGTGGCGCTGTCCCGCCAAGTGTCCACC
GTGGTGTGTGTGCACGAACCCCGCTGCCAGCCGCTGACTGCCACGGCCACGGGACCTGC
GTGGACGGGACTGCCAATGCACCGGGCACTTCTGGCGGGTCCCGGCTGTGATGAGCTG
GACTGTGGCCCTCTAACTGCAGCCAGCAGGACTGTGCACGGAGACCGGCTGCCGCTGT
GATGCCGATGGACCGGTCCAAGTGAAGAGTGTCCCTTGCTGACCCCAAGACTGGCAAC
GGCTGCCAGAGGCTTGTAAAGTGTGAGCACCATTGTCCCTGTGACCCCAAGACTGGCAAC
TGCAGCGTCTCCAGAGTAAAGCAGTGTCTCCAGCCACTGAAGCCACCCTGAGGGCGGGA
GAACTCTCTTTTTACCAGGACCGCTGGCTAGCCCTACCCTGGCGCTGGCCTTCTCTC
CTGCTGATCAGCATTGCAGCAAACCTGTCTTGTCTCTGTCCAGAGCAGAGAGGAACCGG
CGCCTGCATGGGACTATGCATACCACCGCTGCAGGAGATGAACGGGGAGCCTCTGGCC
GCAGAGAAGGAGCAGCCAGGGGGCGCCACAACCCCTTCAAGGACTGA
    
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Clone variation with respect to NM_016256.3
 1030 c=>t;1394 c=>t

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_016256 unedited
GTTACGAATTTGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGAATAT
GGCGACCTCCAGGGTCGCTGGCTTCTCCTCCGGCTTGCACTATTCGGCTTCTCTGGGAA
GCGTCCGGCGGCCTCGACTCGGGGGCTCCCGCGACGACGACTTGCTACTGCCCTATCCA
CGCGCGCGCGCGCCTCCCCGGGACTGCACACGGGTGCGCGCCGGCAACCGCGAGCAC
GAGAGTTGGCTCCGCTCCCGGACTCCCGCGCCGGCGGTCTGGCCGTGCGCACCTTC
GTGTCGCACTTCAGGGACCGCGGTGGCCGGCCACTGACGCGGGCCGTTGAGCCCTG
CGCACCTTCTCGGTGCTGGAGCCCGGTGGACCCGGCGGTGCGCGGGGAGACGACGCGCC
ACCGTGGAGGAGACGGCGCGGGCGGCGACTGCCGTGTGCCAGAACGGCGGCTTCTTC
CGCATGAACTCGGGCGAGTGCCTGGGGAACGTGGTGAGCGACGAGCGGGGTGAGCAGC
TCCGGGGGGCTGCAGAACCGCAGTTCGGGATCCGCCGCGACGGGACCCTGGTACCAGG
TACCTGTCTGAGGAGGAGGTGCTGGACTGAGAACCATNTGTGACGCTGCTGAGTGGG
GTCGTGTGGCTGATTCGTAATGGAAGCATCTACATCAACGAGAGCCAAGCCACAGAGTGT
GACGAGACACAGGAGACAGGTTCTTTAGCAAATTTGTGAATGTGATATCAGCCAGGACG
GCCATTGGCCACGACCGNAAGGGCAGCTGGTGTCTTTTCATGACGACGGGCAAACGGAG
CAGCGTGGCATCAACCTGTGGGAAATGGCNGAGTNTGCTGAANCAGACGTGGTCACGC
ATCACCGTGAGGGGGGGGCTCTGCCACCTTGTGCTCACG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016256 unedited GGGGGGCCGANGNNAGNNNTTTTNNNNNNGNNTTTCNNGNACCGGAGCCGCATTTTATA TNCGGTTTTTTTTTCTTTTTTTTCTTTTTATTATATCAATTTATTCAAGTGATTA ACTTCTTGGCAGCAGGATGACAAAACAGGTCTGTAACATGATTTTCATCCCCCATCCCT TCTTCCAAGGAGCTTCTATGACAGGAAATCGAATTCTAGTTGGCAAATCCAGTGATGAG GTCTGTAGAAAAGGGTCCCCTGTACAGCCAGGAAGGCAGACTCGTCCCTTTAACCCAC TCCAGCCAGGGGTGCTGGCCAGGATGTGCTGTTCTGTGACATGACGTGGTCACTGAGTCTGG TTCGTTGGCAGCCCTTCCCAGGAGGAGGGAGACTCTTTGGCAGTGCGGCAGCCCTCCC GGGGGCACGGGCTTCTCGGCAGCAGACACAGGCAGGCGAGAAGCAGGCAGCTGAGCCTCT CCAGCGAGCATGGTATTGCTAGGGTTGCAGGTGCCCTGNCAGGTGGCCAGGTGAGGGGCT GAGGCACAAGTGCTATCAGGAACCTGGCTGCCCCACAGGGGCTGANGACACCCAGATGGT CCACGCCAGTGGCCTTGAATTTCCCCTGCAGAAGCCAGACCGTGGGAAACAAGCTNTC GCGACGTGCCACCCCGGCAGCTTGAGGCTTCACTCCTTGAAGGGGNTGTGGGCGCCCC TGGNCTGCTCTTCTGCGGCCAGAAGCTCCCCGTNCATCTCCTGCAGCCGGTGGTATGC ATAGNTCCATGCNAGCGCCGGTCTCTCTGCTCTGGACAGAGCAAGACAGGNTTGGCTG CATGCTGATCNCAAGAGGAAGCCACCCCGGTGAGGGCTACCCAGCCGCCCTGTGAAAAA GAAAGTCTCCGCCTCAAGGGGGCTAAGGTGCTGGAAACATGTTTACTTTGAAACCTTC ANTGGCAATCTGGGGTCACAGGCATGGGGCCACACTACAAGCG
Restriction Sites:	NotI-NotI
ACCN:	NM_016256
Insert Size:	2290 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_016256.2 , NP_057340.2
RefSeq Size:	2219 bp
RefSeq ORF:	1548 bp
Locus ID:	51172
UniProt ID:	Q9UK23
Cytogenetics:	16p13.3
Domains:	EGF

Protein Families: Transmembrane

Protein Pathways: Lysosome

Gene Summary: 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. [provided by RefSeq, Oct 2015]