

Product datasheet for **MG222883**

Nagpa (NM_013796) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nagpa (NM_013796) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nagpa
Synonyms:	A1596180; UCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222883 representing NM_013796
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCCAGGGGGCCGGCTGTTCTCATACCCGCGCTGCTCGGCTTACTCGGGTGGCGTGGT
 GCAGCCTAAGCTTCGGGTTTCCCGCGACGATGACCTGCTGCTGCCTTACCCACTAGCGCGCAGAGTCC
 CTCGCGAGACTGCGCCCGGGTGCCTCAGGTAGCCAGAGCAGGAGAGCTGGCCTCCGCCACCCACGAAC
 CCCGGCGCAGCCACCACGCGGCCGTGCGCACCTTCGTGTGCACTTCGAGGGGCGCGGGTGGCCGGCC
 ACCTGACGCGGGTCGCCGATCCCCTACGCATTTCTCGGTGCTGGAGCCCGGAGGAGCCGGGGGCTGCGC
 GCAGAAGCGCCGCTACTGTGGAGGACACAGCCGTCCCGGCCGGTTGCCGCATCGCTCAGAACGGTGGC
 TTCTCCGCATGAGCACTGGCGAGTCTTGGGAACTGGTGGAGCAGCGGGCGGCTGGTGGAGCAGCTCAG
 GGGGACTGCAGAACGCGCAGTTCGGTATCCGACGCGATGGAACCATAGTACCCGGTACCTGTCTGAGGA
 GGAGTTCTGGATCCCGTGAATCCGTTCTGTCAGCTGCTGAGCGGAGTCTGTGGCTCATCCGCAATGGA
 AACATCTACATCAACGAGAGCAAGCCATCGAGTGTGACGAGACACAGGAGACAGGTTCTTTTAGCAAA
 TTGTGAATGTGATGTCAGCCAGGACAGCCGTGGGTGATGACCGTGGGGGAGCTTATCCTCTTCCATGC
 TGATGGACAGACGGAACAGCGTGGCCTTAACTATGGGAGATGGCAGAGTTCTGCGTCAACAAGATGTC
 GTCAATGCCATCAACCTGGATGGAGCGGTTCTGCTACTTTTGTGCTCAATGGGACCCTGGCCAGTTACC
 CTTAGATCACTGCCAGGACAACATGTGGCGCTGTCCCGCCAAGTGTCCACTGTGGTGTGTGTGCATGA
 ACCGCGCTGCCAGCCACCCGACTGCAGTGGCCACGGGACTGTGTGGATGGCCACTGTGAATGCACCAGC
 CACTTCTGGCGGGCGAGGCTGCAGCGAGCTGGACTGTGGCCCTCCAAGTGCAGCCAGCATGGGCTGT
 GCACAGAGACTGGCTGCCACTGTGATGCTGGGTGGACAGGATCCAAGTGCAGTGAAGAGTCTCTCTGGG
 CTGGTATGGGCCAGGTTGCCAGAGGCCATGCCAGTGTGAGCACCAAGTGTCTGTGACCCGACACTGGC
 AACTGCAGCATCTCCAAGTGGAGCAGTGTCTCCAGCCTGAGGCTACGCCGAGGGCAGGAGAGCTGG
 CCTCTTTCACAGGACCCTGGCTAGCCCTCACCTGACACTAATTTTCTGCTGCTGATCAGCACTGG
 GGTCAACGTGTCTTGTCTGGGCTCCAGGGCCGAGAGGAACCGGCACCTCGACGGGGACTATGTGTAT
 CACCCACTGCAGGAGGTGAACGGGAAGCGCTGACTGCAGAGAAGGAGCACAGGAGGAACTAGCAACC
 CCTTCAAGGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222883 representing NM_013796
 Red=Cloning site Green=Tags(s)

MAAPRGPGLFLIPALLGLLGVAWCSLSFGVSRDDLLPYPLARRRPSRDCARVRSQSPEQESWPPPTN
 PGASHHAAVRTFVSHFEGRAVAGHLTRVADPLRTFVLEPGGAGGCAQKRRATVEDTAVPAGCRIAQNGG
 FFRMSTGECLGNVSDGRLVSSSGLQNAQFIRRDGTIVTGYLSEEEVLDPVNPFVQLLSGVVWLIRNG
 NIYINESQAIIECDETQETGSFSKFNVMASARTAVGHDREGQLILFHADGQTEQRGLNLWEMAEFLRQQDV
 VNAINLDGGGSATFVLNGTLASYPSPDHQDNMWRCPQVSTVVCVHEPRCQPPDCSGHGTCVDGHCECTS
 HFWRGEACSELDCGPSNCSQHGLCTETGCHCDAGWTGNSCSEECPLGWYGPQCQRPCQCEHQSCDPQGT
 NCSISQVRQCLQPTATPRAGELASFTRTTWLALTLTLIFLLLISTGVNVSLFLGSAERNRHLGDYVY
 HPLQEVNGEALTAKEHEETSNPFKD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_013796

ORF Size: 1551 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_013796.3](#), [NP_038824.2](#)

RefSeq Size: 2152 bp

RefSeq ORF: 1554 bp

Locus ID: 27426

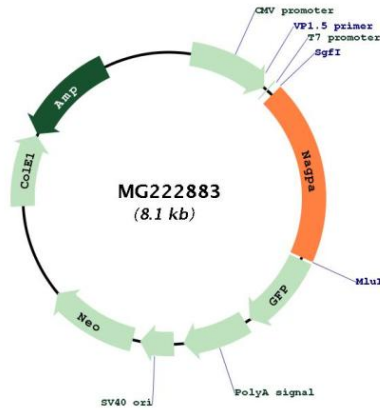
UniProt ID: [Q8BJ48](#)

Cytogenetics: 16 A1

Gene Summary:

Catalyzes the second step in the formation of the mannose 6-phosphate targeting signal on lysosomal enzyme oligosaccharides by removing GlcNAc residues from GlcNAc-alpha-P-mannose moieties, which are formed in the first step. Also hydrolyzes UDP-GlcNAc, a sugar donor for Golgi N-acetylglucosaminyltransferases.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222883