

Product datasheet for **MR221796**

Magt1 (NM_001190409) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Magt1 (NM_001190409) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Magt1
Synonyms:	2410001C15Rik; 2610529C04Rik; 2810482I07Rik; IAG2; IAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221796 representing NM_001190409 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCC

ATGGGGAGCGGCAAGGGCTCGGTCGCCCGTTCTCACGCCCCACCTCGGACCGTGCTGGAAGAAAGTTT
CGCCCCGCCCAAGAGAGAAGCGTGAACATGGCCTCGCCAAGGTGGTTCTGGTCTGTGTGCGGATCGC
AGCGGTGGCACTGCTGCTCGTTTCCAAGGTTCCCTCGGCCTCGCCAAAGAAAGAAGGAGATGGTGTTA
TCTGAGAAGGTTAGTCAGCTGATGGAATGGCCAATAAGAGACCTGTAATAAGAATGAATGGAGACAAGT
TCCGTCGTCCTTGTAAAGCTCCACCGAGAAATTAAGTCTGTCGTCATGTTACTGCTCTCCAACCTCA
TAGACAATGTGTCGTTTGAAGCAAGCTGATGAAGAATCCAGATTTTGGCAAATCTTGCGGATACTCC
AATGCATTTACCAACAGGATATTTTTGCCATGGTGGATTTTGGTGAAGGCTCAGATGTATTTCAAATGC
TAAACATGAATTCAGCTCCAACCTTTCATCAACTTCTCCGAAAGGAAAACCCAAAGGGCTGATACATA
TGAGTTGCAGGTGCGAGGGTTTTTCAGCTGAGCAGATTGCCCGGTGGATTGCAGACAGAAGTATGTCAC
ATTAGAGTAATTAGACCTCCAAATATGCTGGACCCCTAATGTTGGGACTGCTGCTGGCTGTTATTGGTG
GACTTGTGTATCTGCGAAGAAGCAATATGGAGTTCCTCTTTAATAAACTGGATGGGCTTTTGCAGCTTT
GTGTTTTGTAATGCTATGACATCTGGCCAAATGTGGAACCATATAAGAGGACCACCATATGCTCATAAA
AATCCCCACACAGGACAGTGAATTACATCCACGGGAGCAGCCAGGCCAGTTTGTAGAAACCCACA
TCGTTCTTCTATTCAATGGTGGGTTACCTTAGGAATGGTGCTTTTATGTGAAGCTGCTACCTCTGACAT
GGATATTGGGAAGCGAAGGATGATGTGATTGCTGGGATTGGACTCGTTGTGTTATTCTTCAGTTGGATG
CTCTCTATCTTCGATCAAAATACCATGGCTATCCATACAGCTTTCTGATGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR221796 representing NM_001190409
Red=Cloning site Green=Tags(s)

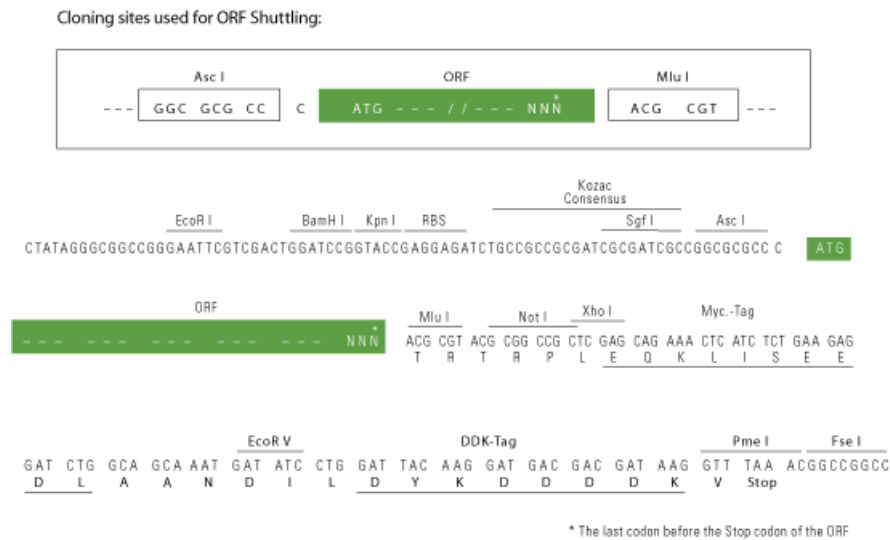
MGSGKGSVRPFSRPTLGPCWKKVSPRRQERSVNMASPRWFWSVCAIAAVALLLVSKVPSASAQRKKEML
 SEKVSQLEWANKRPVIRMNGDKFRRLVKAPPRNYSVVVMFTALQLHRQCVVCKQADEEFQILANSWRYS
 NAFTNRIFFFAMVDFDEGSDVVFQMLNMNSAPTFINFPPKPKRADTYELQVRGFSAEQIARWIADRTDVN
 IRVIRPPNYAGPLMLGLLLAVIGGLVYLRRSNMEFLFNKTGWAF AALCFVLAMTSGQMWNHIRGPPYAHK
 NPHTGHVNYIHGSSQAQFVAETHIVLLFNGGVTLGMVLLCEAATSDMDIGKRRMMCIAGIGLVVLFWSM
 LSIFRSKYHGYPYSFLMS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_d05.zip

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_001190409

ORF Size: 1104 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_001190409.1](#), [NP_001177338.1](#)

RefSeq Size: 4524 bp

RefSeq ORF: 1107 bp

Locus ID: 67075

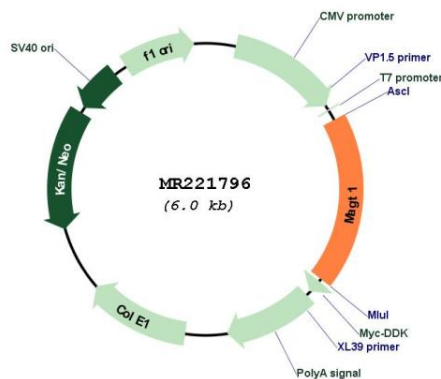
UniProt ID: [Q9CQY5](#)

Cytogenetics: X D

MW: 42.1 kDa

Gene Summary: Acts as accessory component of the N-oligosaccharyl transferase (OST) complex which catalyzes the transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains. Involved in N-glycosylation of STT3B-dependent substrates. Specifically required for the glycosylation of a subset of acceptor sites that are near cysteine residues; in this function seems to act redundantly with TUSC3. In its oxidized form proposed to form transient mixed disulfides with a glycoprotein substrate to facilitate access of STT3B to the unmodified acceptor site. Has also oxidoreductase-independent functions in the STT3B-containing OST complex possibly involving substrate recognition.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221796