

Product datasheet for RN214373

Magt1 (NM_053946) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Magt1 (NM_053946) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Magt1
 Synonyms: lag2
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN214373 representing NM_053946
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCTCGCCGAGGTGGCTCTGGTGTGTGTGTCGACCCAGCGGTCACTGCTGCTCGTTTCCAAGG
 TTCCTTCGGCCTCTGCCAAAGAAAGAAGGAGAAGGTTTTAGTGGAGAAGGTCATTGAGTGGAAATG
 GACCAATCAAAGACCAGTCATAAGAATGAATGGAGACAAGTTCGGTCCCCTTGTTAAAGCACCACCAAGA
 AATTACTCTGTTATTGTCATGTTTACTGCTCTCCAATTCATAGACAATGTGTCGTTTGCAAGCAAGCTG
 ATGAAGAATCCAGATTTTGGCAAATTTTGGCGATACTCCAGTGCATTTACCAACCGCATATTTTTTGC
 CATGGTGGATTTTATGAAGGCTCTGATGATTTCAAATGCTAAACATGAATTCAGCTCCAATTTTCATC
 AACTTTCTCCAAAGGAAAACCCAAAAGGGCTGATACATATGAGTTGCAGGTGCGAGGGTTTTTCAGCTG
 AACAGATTGCCCGGTGGATCGCAGACAGAACTGACGTCAACATTAGAGTAATCAGACCTCCAAATATGC
 TGGACCTCTAATGTTGGGGTTGCTTCTTGCTGTTATTGGTGGACTGTGTATCTGCGACGAAGTAATATG
 GAATTCCTCTTAATAAAAACCGGATGGGCTTTTGCAGCATTGTGTTTTGACTTGCAATGACATCTGGCC
 AAATGTGGAACCATATAAGAGGACCACCATATGCTCATAAGAATCCCCATACAGGACATGTGAATTATAT
 CCACGGAAGCAGCCAAGCACAGTTTGTAGCTGAAACCCACATTGTTCTTCTCTTCAATGGTGGGGTTACC
 TTAGGTATGGTGTCTTTATGTGAAGCTGCTGCCTCTGACATGGATATTGGGAAGCGAAGGATGATGTGTA
 TTGCTGGGATTGGACTTGTGTGTTATTCTTCAGTTGGATGCTGTCCATCTTTCGATCAAATACCATGG
 CTATCCATACAGCTTTCTGATGAGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_053946



Insert Size:	1008 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_053946.1 , NP_446398.1
RefSeq Size:	1219 bp
RefSeq ORF:	1008 bp
Locus ID:	116967
UniProt ID:	O35777
Cytogenetics:	Xq22
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]