

## Product datasheet for **SC106535**

### **MAGT1 (NM\_032121) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAGT1 (NM_032121) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAGT1
Synonyms:	bA217H1.1; CDG1CC; IAP; MRX95; OST3B; PRO0756; SLC58A1; XMEN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032121, the custom clone sequence may differ by one or more nucleotides

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ATGAGGAAAGGCAAGGGGCCGATTTGCCTGTTCTCACGCCCCACCCTCAGACCTAGCCGGAGCAAAGTTT
CACTTATAGAAGGGAGAGGAGCGAACATGGCAGCGCGTTGGCGGTTTTGGTGTGTCTCTGTGACCATGGT
GGTGGCGTGCTCATCGTTTGCAGCGTTCCCTCAGCCTCTGCCAAAGAAAGAAGGAGATGGTGTATCT
GAAAAGGTTAGTCAGCTGATGGAATGGACTAACAAAAGACCTGTAATAAGAATGAATGGAGACAAGTTCC
GTCGCCTTGTGAAAGCCCCACCGAGAAATTAAGTCCGTTATCGTCATGTTCACTGCTCTCCAAGTGCATAG
ACAGTGTGTCGTTTGAAGCAAGCTGATGAAGAATTCAGATCCTGGCAAACCTCTGGCGATACTCCAGT
GCATTCACCAACAGGATATTTTTGCCATGGTGGATTTTGTGAAGGCTCTGATGTATTTTCAGATGCTAA
ACATGAATTCAGCTCCAACCTTTCATCAACTTTCCTGCAAAAGGGAAACCCAAACGGGGTGATACATATGA
GTTACAGGTGCGGGGTTTTTCAGCTGAGCAGATTGCCCGTGGATCGCCGACAGAACTGATGTCAATATT
AGAGTGATTAGACCCCCAAATTATGCTGGTCCCCTTATGTTGGGATTGCTTTTGGCTGTTATTGGTGGAC
TTGTGTATCTTGAAGAAGTAATATGGAATTTCTTTAATAAACTGGATGGGCTTTTGCAGCTTTGTG
TTTTGTGCTTGCTATGACATCTGGTCAAATGTGGAACCATATAAGAGGACCACCATATGCCATAAAGAT
CCCCACACGGGACATGTGAATTATCCATGGAAGCAGTCAAGCCAGTTTGTAGCTGAAACACACATTG
TTCTTCTGTTAATGGTGGAGTTACCTTAGGAATGGTGCTTTTATGTGAAGCTGCTACCTCTGACATGGA
TATTGAAAGCGAAAGATAATGTGTGTGGCTGGTATTGGACTTGTGTATTATTCTTCAGTTGGATGCTC
TCTATTTTGTAGTCTAAATATCATGGCTACCCATACAGCTTTCTGATGAGTTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_032121 unedited</p> <pre>TCAGTATTTTGTAAACGACTCACTATAGGGCGGCCGCGAAATTCGCACGAGCATGGCAG CGCGTTGGCGGTTTTGGTGTGTCTCTGTGACCATGGTGGTGGCGCTGCTCATCGTTTGGC ACGTTCCCTCAGCCTCTGCCCAAAGAAAGAGGAGATGGTGTATCTGAAAAGGTTAGTC AGCTGATGGAATGGACTAACAAAAGACCTGTAATAAGAATGAATGGAGACAAGTCCGTC GCCTTGTGAAAGCCCCACCGAGAAATTAATCCGTTATCGTCATGTTCACTGCTCTCCAAC TGCATAGACAGTGTGTCGTTTGAAGCAAGCTGATGAAGAATCCAGATCCTGGCAAAC CCTGGCGATACTCCAGTGCAATCACCAACAGGATATTTTTGCCATGGTGGATTTTGATG AAGGCTCTGATGTATTTAGATGCTAAACATGAATTCAGCTCCAACCTTTCATCAACTTTC CTGCAAAAAGGAAACCAAAACGGGGTGATACATATGAGTTACAGGTGCGGGGTTTTTCAG CTGAGCAGATTGCCCGTGGATCGCCGACAGAAGCTGATGTCAATATTAGAGTGATTAGAC CCCCAAATATGCTGGTCCCCTTATGTTGGGATTGCTTTTGGCTGTTATTGGTGGACTTG TGTATCTCGAAGAGTAATATGGAATTTCTCTTAATAAACTGGATGGGCTTTTGCAGCT TTGTGTTTTGTGCTTGTATGACATCTGGTCAAATGTTGAACCATATANAGAGACCACCA TATGCCCTAAGAATCCCACACGGGACATGTGAATTATCCATGGAAGCAGTCAAGCC CAGTTTGTAGCTGAAACACACATTGNTNCTTCTGTTAATGGTGGNAGTTACCTCTAGA ATGTTGCCTNTNATGTGAAAGCTGGTACCCTCTGACATGGATATTTGAAAAGCGAAGAT AAT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_032121 unedited</p> <pre>GGGAGATAACCTAGGACCGGGCCCCCATCTANGATCGAGTTTAAAACCTTTTTTTTTT TAGATTGTAAGTATTATTGATATGGTCAAAAAGCAAACAGCCAGACATTTGGTTATCTT TGCCACTACAATGTGTCATTCTGAACTGTATCTTAAAAATGCATAACAAATGATATTTAA ACCATTACCAGAAAAGTAAATGAAGAGTCTACTTAAGGCACTTCATATGAAAGCTAATTC AAAATTTTCAAAAAGTCACTATTTTATAAGTGTAGTAAATTACCTTCTACACATTTT AGCCAGAATGCTGCCTTCTCCTTACAGAAGAATGTGCTCTTAAAGGGAGAAAAAGCAAA TACAAAAAATTGTCATTCTGTCAATGTTTCATGACAAATATCTGGAACATACAGATTAC ATGGCAGTAGTATTTCCCGTGGTCAATCTGTACAAATCAGGGCATCTTCATACAAGTCTCA TAAGAACCACAGCATAGATTTGGCCTGAGACAAGTACAAGAATAGCAGGTAAGGAATTCA GAATCTCACAATTTACAAGTGAATTAACAAAAACTGGCTGCTCCATTAAGAAAGTAAA AGGTCAACCATATCCCCTCATCCATGAAATCTAGTAACGAANAACAAAAACCCACATAA AATATTTCTTCTGAAGCTACTATATCCATCTTTCTGCAAAACCACATGGCAGGGTTATT AGAAGGTAATGTCNAGTGGCAGTCATAGTATCTTTTTAATGGTATACTTGAAGATTTT CTTANAATTTTTTTTTTCAAAATTANCATTATCCTATTTGNCACATAGTGGCATTTTTCAG GNTTACTCTCATACTTGGGGGGGAAGGTTTTGGGTTGAATTTAATGTATAACCTGGAA</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_032121
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_032121.3</a> , <a href="#">NP_115497.3</a>
<b>RefSeq Size:</b>	4035 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	84061
<b>UniProt ID:</b>	<a href="#">Q9H0U3</a>
<b>Cytogenetics:</b>	Xq21.1
<b>Domains:</b>	OST3_OST6
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	This gene encodes a ubiquitously expressed magnesium cation transporter protein that localizes to the cell membrane. This protein also associates with N-oligosaccharyl transferase and therefore may have a role in N-glycosylation. Mutations in this gene cause a form of X-linked intellectual disability (XLID). This gene may have multiple in-frame translation initiation sites, one of which would encode a shorter protein with an N-terminus containing a signal peptide at amino acids 1-29. [provided by RefSeq, Jul 2017]