

## Product datasheet for **SC337364**

### **POMGNT1 (NM\_001243766) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	POMGNT1 (NM_001243766) Human Untagged Clone
Tag:	Tag Free
Symbol:	POMGNT1
Synonyms:	gnT-I.2; GNTI.2; GnT I.2; LGMD2O; LGMDR15; MEB; MGAT1.2; RP76
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001243766, the custom clone sequence may differ by one or more nucleotides

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ATGGACGACTGGAAGCCAGCCCCCTCATCAAGCCCTTTGGGGCTCGGAAGAAGCGGAGCTGGTACCTTA
CCTGGAAGTATAAAGTACAAACCAGCGGGCCCTGCGGAGATTCTGTGACACAGGGGCCGTGCTTTTCCT
GCTGGTACTGTCAATTGCAATATCAAGTTGATCCTGGACTCGGCGAGCCATCAGTGAAGCCAATGAA
GACCCAGAGCCAGAGCAAGACTATGATGAGGCCCTAGGCCGCTGGAGCCCCACGGCGCAGAGGCAGTG
GTCCCCGGCGGGTCTTGACGTAGAGGTATTCAAGTGCAGCAAAGTATATGTGGCAGTGGATGGCAC
CACGGTGTGGAGGATGAGGCCCGGGAGCAGGGCCGGGGCATCCATGTCATTGTCCTCAACCAGGCCACG
GGCCACGTGATGGCAAAACGTGTGTTTGACACGTACTCACCTCATGAGGATGAGGCCATGGTGTATTCC
TCAACATGGTAGCGCCCGGCGAGTGTCTGCACTGTCAAGGATGAGGGCTCCTTCCACCTCAAGGA
CACAGCCAAGGCTCTGCTGAGGAGCCTGGGCAGCCAGGCTGGCCCTGCCCTGGGCTGGAGGGACACATGG
GCCTTCGTGGGACGAAAAGGAGGTCTGTCTTCGGGGAGAAACATTCTAAATCACCTGCCCTCTCTTCT
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AGACACAGAGCTGAACCGTCGCCCGCGGCTTCTGCAGCAAAGTTGAGGGCTATGGAAGTGTATGCAGC
TGCAAGGACCCACACCCATCGAGTTCAGCCCTGACCCACTCCCAGACAACAAGTCTCAATGTGCCTG
TGGCTGTCAATGACAGGAACCGACCCAATTACCTGTACAGGATGCTGCGCTCTCTGCTTTAGCCAGGG
GGTGTCTCCTCAGATGATAACAGTTTTTCATTGACGGCTACTATGAGGAACCCATGGATGTGGTGGCACTG
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CCAGCCTCACTGCCACTTCAACCTGTTCCGGAGGCCAAGTTTGTGTGGTTCTGGAAGAGGACCTGGA
CATTGCTGTGGATTTTTTCAGTTTTCTGAGCCAATCCATCCACCTACTGGAGGAGGATGACAGCCTGTAC
TGCATCTCTGCCGGAATGACCAGGGGTATGAACACACGGCTGAGGACCCAGCACTACTGTACCGTGTGG
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TACACCGGAAAAGCTCTGGGATTGGGACATGTGGATGCGGATGCCTGAACAACGCCGGGGCCGAGAGTGC
ATCATCCCTGACGTTTTCCGATCCTACCACTTTGGCATCGTCGGCCTCAACATGAATGGCTACTTTCAGG
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GAAAGAAGCTTATGAAGTGAAGTTCACAGGCTGCTCAGTGGGCTGAGGTTCTGGACCACAGCAAGAAC
CCTTGTGAAGACTCTTCTGCCAGACACAGGGCCACACCTACGTGGCCTTTATTGGAATGGAGAAAG
ATGATGACTTACCACCTGGACCAGCTTGCCAAGTGCCTCCATATCTGGGACCTGGATGTGCGTGGCAA
CCATCGGGGCTGTGGAGATTGTTTCGGAAGAAGAACCCTTCTGGTGTGAGTGAAGAAGCCACCCTCAGT
CACCCCAATTTTCTGGAGCCACCCCAAGGAGGAGGGAGCCCAAGGAGCCCAAGAACAGACATGAGAC
CTCCTCCAGGACCTGCGGGGCTGGGCTGGCTCAGAATCTAACCTATTTATTGACTGTCCTGAGGGCCT
TGAAAACAGGCCGAACCTGGAGGGCTGGATTTCTTTTGGGCTGGAATGCTGCCCTGAGGGTGGGGCTG
GCTCTTACTCAGGAACTGCTGTGCCAACCCATGGACAGGCCAGCTGGGGCCACATGCTGACACAGA
CTCACTCAGAGACCCCTAGACACTGGACCAGGCCTCCTCTCAGCCTTCTCTTTGTCCAGATTTCAAAGC
TGGATAA
    
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001243766

**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:**

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\\_001243766.1](#), [NP\\_001230695.1](#)

**RefSeq Size:** 2953 bp

**RefSeq ORF:** 2247 bp

**Locus ID:** 55624

**Cytogenetics:** 1p34.1

**Protein Pathways:** O-Mannosyl glycan biosynthesis

**Gene Summary:** This gene encodes a type II transmembrane protein that resides in the Golgi apparatus. It participates in O-mannosyl glycosylation and is specific for alpha linked terminal mannose. Mutations in this gene may be associated with muscle-eye-brain disease and several congenital muscular dystrophies. Alternatively spliced transcript variants that encode different protein isoforms have been described. [provided by RefSeq, Feb 2014]  
Transcript Variant: This variant (2) differs in the 5' and 3' UTRs and uses an alternate splice site in the coding region, compared to variant 1. The encoded isoform (2) is longer and has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.