

## Product datasheet for **RC239470**

### **POMGNT1 (NM\_001243766) Human Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

**ORF Nucleotide Sequence:**

>RC239470 representing NM\_001243766  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGACTGGAAGCCCAGCCCCCTCATCAAGCCCTTTGGGGCTCGGAAGAAGCGGAGCTGGTACCTTA  
 CCTGGAAGTATAAACTGACAAACCAGCGGCCCTGCGGAGATTCTGTGACACAGGGGCCGTGCTTTTCCT  
 GCTGGTACTGTCAATATCAAGTTGATCCTGGACACTCGCGAGCCATCAGTGAAGCCAATGAA  
 GACCCAGAGCCAGAGCAAGACTATGATGAGGCCCTAGGCCGCTGGAGCCCCACGGCGCAGAGGCAGTG  
 GTCCCCGGCGGTCTGGACGTAGAGGTGATTCAAGTCGCAGCAAAGTATATGTGGCAGTGGATGGCAC  
 CACGGTGTGGAGGATGAGGCCCGGAGCAGGGCCGGGCATCCATGTCATTGTCCTCAACCAGGCCACG  
 GGCCACGTGATGGCAAACGTGTGTTTGACACGTACTCACCTCATGAGGATGAGGCCATGGTGTATTCC  
 TCAACATGGTAGCGCCCGCCGAGTGTCTGCACTGTCAAGGATGAGGGCTCCTTCCACCTCAAGGA  
 CACAGCCAAGGCTCTGCTGAGGAGCCTGGGCAGCCAGGCTGGCCCTGCCCTGGGCTGGAGGGACACATGG  
 GCCTTCGTGGGACGAAAAGGAGGTCTGTCTTCGGGAGAAAACATTCTAAATCACCTGCCCTCTCTCTCT  
 GGGGGGACCCAGTCTGTGAAGACAGATGTGCCATTGAGCTCAGCAGAAGAGGCAGAGTGCCACTGGGC  
 AGACACAGAGCTGAACCGTCGCGCCGCGCCTTCTGCAGCAAAGTTGAGGGCTATGGAAGTGTATGCAGC  
 TGCAAGGACCCACACCCATCGAGTTCAGCCCTGACCCACTCCAGACAACAAGTCTCAATGTGCCTG  
 TGGCTGTATTGCAGGGAACCGACCAATTACCTGTACAGGATGCTGCGCTCTCTGCTTTAGCCAGGG  
 GGTGTCTCCTCAGATGATAACAGTTTTTCATTGACGGCTACTATGAGGAACCCATGGATGTGGTGGCACTG  
 TTTGGTCTGAGGGCATCCAGCATACTCCATCAGCATCAAGAATGCCCGCGTGTCTCAGCACTACAAGG  
 CCAGCCTCACTGCCACTTCAACCTGTTCCGGAGGCCAAGTTTGTGTGTTCTGGAAGAGGACCTGGA  
 CATTGCTGGATTTTTTCAGTTTTCTGAGCCAATCCATCCACCTACTGGAGGAGGATGACAGCCTGTAC  
 TGCATCTCTGCTGGAATGACCAGGGTATGAACACACGGCTGAGGACCCAGCACTACTGTACCGTGTGG  
 AGACCATGCTGGGCTGGGCTGGGTGCTCAGGAGTCTTGTACAAGGAGGAGCTTGAAGCAAGTGGCC  
 TACACCGAAAAGCTCTGGGATTGGGACATGTGGATGCGGATGCCTGAACAACGCCGGGGCCGAGAGTGC  
 ATCATCCCTGACGTTTCCCGATCCTACCACTTTGGCATCGTCGGCCTCAACATGAATGGCTACTTTACG  
 AGGCCTACTTCAAGAAGCACAAGTTCAACACGGTTCAGGTGTCCAGCTCAGGAATGTGGACAGTCTGAA  
 GAAAGAAGCTTATGAAGTGAAGTTCACAGGCTGCTCAGTGAAGGCTGAGGTTCTGGACCACAGCAAGA  
 CCTTGTGAAGACTCTTCTGCCAGACACAGGGCCACACCTACGTGGCCTTTATTCGAATGGAGAAAG  
 ATGATGACTTACCACCTGGACCCAGCTTGCCAAGTGCCTCCATATCTGGGACCTGGATGTGCGTGGCAA  
 CCATCGGGGCTGTGGAGATTGTTTCGGAAGAAGAACCCTTCTGGTGAAGTGAAGAAGCCACCCTCAGT  
 CACCCCAATTTCTGGAGCCACCCCAAGGAGGAGGGAGCCCAAGGAGCCCAAGACAGACATGAGAC  
 CTCCTCCAGGACCTGCGGGGCTGGGCCTGGCTCAGAATCAACCTATTTATTGACTGTCTGAGGGCCT  
 TGAAAACAGGCCGAACCTGGAGGGCCTGGATTTCTTTTGGGCTGGAATGCTGCCCTGAGGGTGGGGCTG  
 GCTTTACTCAGGAACTGTGTGCCAACCCATGGACAGGCCAGCTGGGGCCACATGCTGACACAGA  
 CTCACTCAGAGACCCCTAGACACTGGACCAGGCCTCCTCTCAGCCTTCTCTTTGTCCAGATTTCAAAGC  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239470 representing NM\_001243766  
 Red=Cloning site Green=Tags(s)

MDDWKPSLIKPFGARKKRSWYL TWKYKLTNQRALRRFCQTGAVLFLLVTVIVNIKLILDTRRAISEANE  
 DPEPEQDYDEALGRLEPPRRRGSGPRRVL DVEVYSSRSKVVAVDGTTVLEDEAREQGRGIHVIVLNQAT  
 GHVMAKRVFDTYSPHEDEAMVFLNMVAPGRVLI CTVKDEGSFHLKDTAKALLRSLGSQAGPALGWRDWT  
 AFVGRKGGPVFGEKHSKSPALSSWGDVLLKTDVPLSSAEEAECHWADTELNRRRRRFCSKVEGYGSVCS  
 CKDPTPIEFSPDPLPDKVNLNVPVAVIAGNRPNYL YRMLRSLLSAQGVSPQMITVFDGYYEPMDVVAL  
 FGLRGIQHTPISIKNARVSQHYKASLTATFNLFPEAKFAVLEEDLDIAVDFFSFLSQSIHLLLEEDSLY  
 CISAWNDQGYEHTAEDPALLYRVETMPGLGWVLRSLYKEELEPKWPTPEKLWDWDMWRRMPEQRRGREG  
 IIPDVSRSYHFGIVGLNMNGYFHEAYFKKHKFNTVPGVQLRNVDLKKAEYEVVHRLLEAEVLDHSKN  
 PCEDSFLPDTEGHTYVAFIRMEKDDFFTWTQLAKCLHIWDL DVRGNHRGLWRLFRKKNHFLVSEATLS  
 HPNFPGATPKGGGSPRPRDMRPPPGCGAGPGSESNL FIDCPELENRPNLEGLDFFLGWNAALRVGL  
 ALTQETAVPNPWTGPAGAHMLTQTHSETLRHWTRPPLSLLFVQISKAG

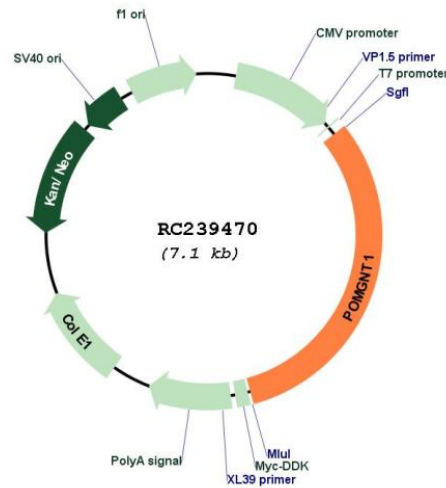
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001243766

**ORF Size:** 2244 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\\_001243766.1](#), [NP\\_001230695.1](#)

**RefSeq Size:** 2953 bp

**RefSeq ORF:** 2247 bp

**Locus ID:** 55624

<b>Cytogenetics:</b>	1p34.1
<b>Protein Pathways:</b>	O-Mannosyl glycan biosynthesis
<b>MW:</b>	85.1 kDa
<b>Gene Summary:</b>	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]