

## Product datasheet for **RG239470**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	POMGNT1 (NM_001243766) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POMGNT1
Synonyms:	gnT-I.2; GNTI.2; GnT I.2; LGMD2O; LGMDR15; MEB; MGAT1.2; RP76
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239470 representing NM\_001243766.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGACGACTGGAAGCCAGCCCCCTCATCAAGCCCTTTGGGGCTCGGAAGAAGCGGAGCTGGTACCTT
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CTGCTGGTGACTGTCATTGTCAATATCAAGTTGATCCTGGACACTCGGCCAGCCATCAGTGAAGCCAAT
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AGTGGTCCCCGGCGGGTCTGGACGTAGAGGTGATTCAAGTCGCAGCAAAGTATATGTGGCAGTGGAT
GGCACCACGGTGTGGAGGATGAGGCCCGGGAGCAGGGCCGGGGCATCCATGTCATTGTCCTCAACCAG
GCCACGGGCCACGTGATGGCAAACGTGTGTTGACACGTACTIONCACCTCATGAGGATGAGGCCATGGTG
CTATTCTCAACATGGTAGCGCCCGCCGAGTGTCTCATCTGCACTGTCAAGGATGAGGGCTCCTCCAC
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AACCTATTTATTGACTGTCTGAGGGCCTTGAACACAGGCCGAACCTGGAGGGCTGGATTTCTTTTTG
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GGCCAGCTGGGGCCACATGCTGACACAGACTCACTCAGAGACCCTTAGACTGGACCAGGCCTCT
CTCAGCCTTCTTTTGTCCAGATTTCAAAGCTGGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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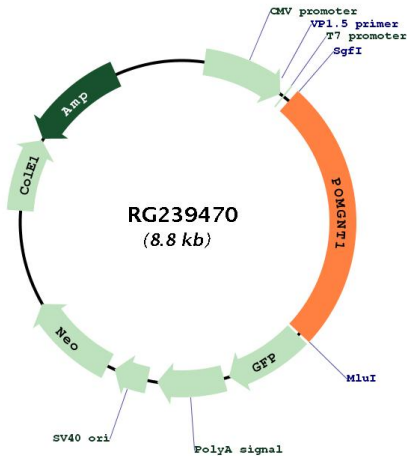
**Protein Sequence:** >Peptide sequence encoded by RG239470  
 Blue=ORF Red=Cloning site Green=Tag(s)

MDDWKPSPLIKPFGARKKRSWYL TWKYKLTNQALRRFCQTGAVLFLLVTVIVNIKLILDTRRAISEAN  
 EDPEPEQDYDEALGRLEPPRRRSGPRLVLDVEVYSSRSKVVYAVDGTTVLEDEAREQGRGIHVILNQ  
 ATGHVMAKRVFDTYSPHEDEAMVLFNMVAPGRVLICTVKDEGSFHLKDTAKALLRSLGSQAGPALGWR  
 DTWAFVGRKGGPVFGEKHSKSPALSSWGDVLLKTDVPLSSAEEAECHWADTELNRRRRRFCSKVEGYG  
 SVCSCKDPTPIEFSPDPLPDNKVLNVPVAVIAGNRPNYLYRMLRSLLSAQGVSPQMITVFIDGYEPEM  
 DVVALFGLRGIQHTPISIKNARVSQHYKASLTATFNLFPEAKFAVLEEDLDIAVDFFSFLSQSIHLLLE  
 EDDSLYCSAWNDQGYEHTAEDPALLYRVETMPGLGWVLRSLYKEELEPKWPTPEKLWDWDMWMRMPE  
 QRRGRECIIPDVSRSYHFGIVGLNMNGYFHEAYFKKHKFNTVPGVQLRNVDSLKKEAYEVVHRLSEA  
 EVLDHNSKPCEDSFLPDTEGHTYVAFIRMEKDDDFTTWTQLAKCLHIWDLVVRGNHRGLWRLFRKKNHF  
 LVSEEAATLSHPNFPGATPKGGSPRSPRTDMRPPPGCAGPGSESNLFDICPEGLENRPNLEGLDFFL  
 GWNAALRVGLALQTETAVPNPWTGPAGAHMLTQTHSETLRHWTRPPLSLLFVQISKAG  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-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).

**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

**MW:** 85.1 kDa

**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]