

Product datasheet for **RC239175**

POMGNT1 (NM_001290129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POMGNT1 (NM_001290129) 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



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ORF Nucleotide
Sequence:

>RC239175 representing NM_001290129
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGAGGGGACCAAGGAAATCAAGTCTCAAATAGAAGAATACAGGAGCACTGGACAGGGCCGTGCTTT
TCCTGCTGGTGACTGTCATTGTCAATATCAAGTTGATCCTGGACTCGGCGAGCCATCAGTGAAGCCAA
TGAAGACCCAGAGCCAGAGCAAGACTATGATGAGGCCCTAGGCCCTGGAGCCCCACGGCGCAGAGGC
AGTGGTCCCCGGCGGGTCTGGACGTAGAGGTGATTCAAGTCGCAGCAAAGTATATGTGGCAGTGGATG
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CACGGGCCACGTGATGGCAAACGTGTGTTTGACACGTAACCTCATGAGGATGAGGCCATGGTGCTA
TTCCTCAACATGGTAGCGCCCGCGAGTGCTCATCTGCACTGTCAAGGATGAGGGCTCCTTCCACCTCA
AGGACACAGCCAAGGCTCTGCTGAGGAGCCTGGGCAGCCAGGCTGGCCCTGCCCTGGGCTGGAGGGACAC
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TCCTGGGGGACCCAGTCTGTGAAGACAGATGTGCCATTGAGCTCAGCAGAAGAGGCAGAGTGCCACT
GGGCAGACACAGAGCTGAACCGTCGCCCGCGGCTTCTGCAGCAAAGTTGAGGGCTATGGAAGTGTATG
CAGCTGCAAGGACCCACACCCATCGAGTTCAGCCCTGACCCACTCCCAGACAACAAGGTCTCAATGTG
CCTGTGGCTGTCATTGCAGGGAACCGACCCAATTACCTGTACAGGATGCTGCGCTCTCTGCTTTCAGCCC
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AAAGATGATGACTTCACCACCTGGACCCAGCTTGCCAAGTGCCTCCATATCTGGACCTGGATGTGCGTG
GCAACCATCGGGCCTGTGGAGATTGTTTCGGAAGAAGAACCCTTCCTGGTGGTGGGGTCCCGGCTTC
CCCTACTCAGTGAAGAAGCCACCCTCAGTCACCCCAATTTTCTGGAGCCACCCCAAAGGAGGAGGGA
GCCCCAGGAGCCCCAGAACAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239175 representing NM_001290129
 Red=Cloning site Green=Tags(s)

MEGTKEIKVSNRRIQEHWTGAVLFLLVTVIVNIKLILDTRRAISEANEDPEPEQDYDEALGRLEPPRRRG
 SGPRRVL DVEVYSSRSKVVYAVDGTTVLEDEAREQGRGIHVIVLNQATGHVMAKR VFD T YSPHEDEAMVL
 FLNMVAPGRVLICTVKDEGSFHLKDTAKALLRSLGSQAGPALGWRDTWAFVGRKGGPVFGEKHSKSPALS
 SWGDPVLLKTDVPLSSAEEAECHWADTELNRRRRRCCKVEGYGVCSCCKDPTPIEFSPDPLPDNKVLNV
 PVAVIAGNRPNYLYRMLRSLLSAQGVSPQMITVFDGYEPEPMDVVALFGLRGIQHTPI S IKNARVSQHY
 KASLTATFNLFPEAKFAVVLEEDLDIAVDFFSFLSQSIHLLLEEDSLYCI SAWNDQGYEHTAEDPALLYR
 VETMPGLGWVLRSLYKEELEPKWPTPEKLWDWMWMMRPEQRRGRECIIPDVSRSYHFIVGLNMNGYF
 HEAYFKKHKFNTVPGVQLRNVDLKKAEYEVVHRLLEAEVLDHSKNPCEDSFLPDTEGHTYVAFIRME
 KDDFFTWTQLAKCLHIWDL D VRGNHRGLWRLFRKKNHFLVVGVPASPYSVKKPPSVTPIFLEPPPKEEG
 APGAPEQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

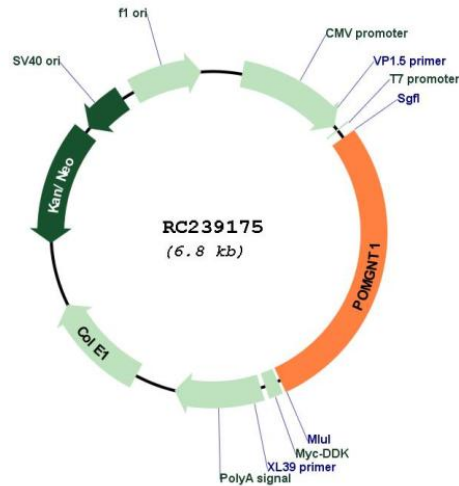
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290129

ORF Size: 1914 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_001290129.1](#), [NP_001277058.1](#)

RefSeq Size:	2400 bp
RefSeq ORF:	1917 bp
Locus ID:	55624
Cytogenetics:	1p34.1
Protein Pathways:	O-Mannosyl glycan biosynthesis
MW:	72.9 kDa
Gene Summary:	<p>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]</p>