

Product datasheet for **RC238681**

POMGNT1 (NM_001290130) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POMGNT1 (NM_001290130) 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:

>RC238681 representing NM_001290130
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAAACGTGTGTTTACACGTACTCACCTCATGAGGATGAGGCCATGGTGCTATTCCTCAACATGG
 TAGCGCCCGGCCGAGTGCTCATCTGCACTGTCAAGGATGAGGGCTCCTTCCACCTCAAGGACACAGCCAA
 GGCTCTGCTGAGGAGCCTGGGCAGCCAGCTGGCCCTGCCCTGGGCTGGAGGGACACATGGGCCCTCGTG
 GGACGAAAAGGAGGTCTGTCTTCGGGGAGAAACATTCTAAATCACCTGCCCTCTCTTCTGGGGGACC
 CAGTCTGCTGAAGACAGATGTGCCATTGAGCTCAGCAGAAGAGGCAGAGTGCCACTGGGACACACAGA
 GCTGAACCGTCGCCGCCGGCGTCTGCAGCAAAGTTGAGGGCTATGGAAGTGTATGCAGCTGCAAGGAC
 CCCACACCCATCGAGTTCAGCCCTGACCCACTCCAGACAACAAGGTCTCAATGTGCCTGTGGCTGTCA
 TTGCAGGGAACCGACCAATTACCTGTACAGGATGCTGCGCTCTCTGCTTTCAGCCAGGGGGTGTCTCC
 TCAGATGATAACAGTTTTTATTGACGGCTACTATGAGGAACCCATGGATGTGGTGGCACTGTTTGGTCTG
 AGGGGCATCCAGCATACTCCCATCAGCATCAAGAAATGCCCGCTGTCTCAGCACTACAAGGCCAGCCTCA
 CTGCCACTTTCAACCTGTTTCCGGAGGCCAAGTTTGTGTGGTCTGGAAGAGGACCTGGACATTGCTGT
 GGATTTTTTTCAGTTTCTGAGCCAATCCATCCACTACTGGAGGAGGATGACAGCCTGTACTGCATCTCT
 GCCTGGAATGACCAGGGGTATGAACACACGGCTGAGGACCCAGCACTACTGTACCGTGTGGAGACCATGC
 CTGGGCTGGGCTGGGTGCTCAGGAGTCTTGTACAAGGAGGAGCTTGGCCCAAGTGGCCATACCCGGA
 AAAGCTCTGGGATTGGGACATGTGGATGCGGATGCCTGAACAACGCCGGGGCCGAGAGTGATCATCCCT
 GACGTTTTCCCGATCTACCCTTTGGCATCGTCCGCTCAACATGAATGGCTACTTTCACGAGGCCACT
 TCAAGAAGCACAAAGTTCAACACGGTTCAGGTGCCAGTCCAGCTCAGGAATGTGGACAGTCTGAAGAAAGAGC
 TTATGAAGTGGAAGTTCACAGGCTGCTCAGTGAGGCTGAGGTTCTGGACCACAGCAAGAACCCTTGTGAA
 GACTCTTCTGCGACACAGAGGGCCACACCTACGTGGCCTTTATTGAAATGGAGAAAGATGATGACT
 TCACCACCTGGACCCAGCTTGCCTAAGTGCCTCCATATCTGGGACCTGGATGTGCGTGGCAACCATCGGG
 CCTGTGGAGATTGTTTCGGAAGAAGAACCCTTCTGGTGGTGGGGTCCCGCTTCCCCCTACTCAGTG
 AAGAAGCCACCCTCAGTCACCCCAATTTCTGGAGCCACCCCAAGGAGGAGGAGCCCGAGGAGCC
 CAGAACAGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238681 representing NM_001290130
 Red=Cloning site Green=Tags(s)

MAKRVDFTYSPHEDEAMVLFNMVAPGRVLICTVKDEGSFHLKDTAKALLRSLGSAQGPALGWRDTWAFV
 GRKGGPVFGEKHSKSPALSSWGPVLLKTDVPLSSAEEAECHWADTELNRRRRRFCSKVEGYGSVCCKD
 PTPIEFSPDPLPDNKVLNVPVAVIAGNRPNYLYRMLRSLLSAQGVSPQMITVFDYGYEPMDDVALFGL
 RGIQHTPISIKNARVSQHYKASLTATFNLFPEAKFAVVLEEDLDIAVDFFSFLSQSIHLLEEDDSLYCIS
 AWNDQGYEHTAEDPALLYRVETMPGLGWVLRSLYKEELEPKWPTPEKLWDWDMWMPQRRGREGCIIP
 DVRSYHFGIVGLNMNGYFHEAYFKKHKFNTVPGVQLRNVDSLKKEAYEVEVHRLLSAEVLDHSKNPCE
 DSFLPDTEGHTYVAFIRMEKDDDFTTWTQLAKCLHIWDLVDRGNHRGLWRLFRKKNHFLVVGVPASPYSV
 KKPPSVTPIFLEPPPKEEGAPGAPEQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

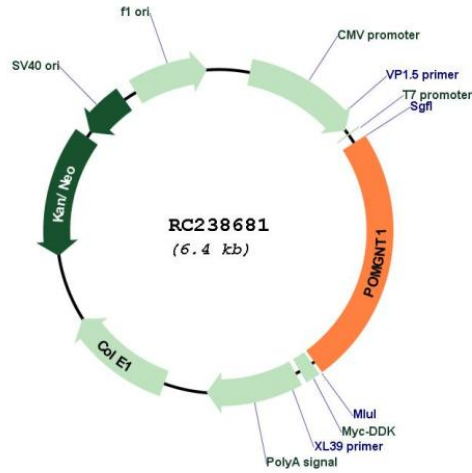
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001290130
ORF Size:	1551 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:	<ol style="list-style-type: none">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_001290130.1 , NP_001277059.1
RefSeq Size:	2366 bp
RefSeq ORF:	1554 bp
Locus ID:	55624
Cytogenetics:	1p34.1
Protein Pathways:	O-Mannosyl glycan biosynthesis
MW:	59.3 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]