

Product datasheet for **RG238681**

POMGNT1 (NM_001290130) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RG238681 representing NM_001290130.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCAAAACGTGTGTTTGACACGTACTCACCTCATGAGGATGAGGCCATGGTGCTATTCCTCAACATG
GTAGCGCCCGCGGAGTCTCATCTGCACTGTCAAGGATGAGGGCTCCTCCACCTCAAGGACACAGCC
AAGGCTCTGCTGAGGAGCCTGGGCAGCCAGGCTGGCCCTGCCCTGGGCTGAGGGACACATGGGCCCTC
GTGGGACGAAAAGGAGGTCTGTCTTCGGGGAGAAACATTCTAAATCACCTGCCCTCTCTTCCTGGGGG
GACCCAGTCTGTGAAGACAGATGTGCCATTGAGCTCAGCAGAAGAGGCAGAGTGCCACTGGGCAGAC
ACAGAGCTGAACCGTCGCCGCCGCGCTTCTGCAGCAAAGTTGAGGGCTATGGAAGTGTATGCAGCTGC
AAGGACCCACACCCATCGAGTTCAGCCCTGACCCACTCCAGACAACAAGGTCTCAATGTGCCTGTG
GCTGTCTTGCAGGAACCGACCAATTACCTGTACAGGATGCTGCGCTCTCTGCTTTCAGCCAGGGG
GTGTCTCCTCAGATGATAACAGTTTTCATTGACGGCTACTATGAGGAACCCATGGATGTGGTGGCACTG
TTTGGTCTGAGGGGCATCCAGCATACTCCCATCAGCATCAAGAATGCCCGGTGTCTCAGCACTACAAG
GCCAGCCTCACTGCCACTTTCAACCTGTTCCGGAGGCCAAGTTGCTGTGGTTCGGAAGAGGACCTG
GACATTGCTGTGGATTTTTTCAGTTTCTGAGCCAATCCATCCACCTACTGGAGGAGGATGACAGCCTG
TACTGCATCTCTGCTGGAATGACCAGGGGTATGAACACACGGCTGAGGACCCAGCACTACTGTACCGT
GTGGAGACCATGCCTGGGCTGGGCTGGGTGCTCAGGAGGTCTTGTACAAGGAGGAGCTTGGACCAAG
TGGCCTACACCGAAAAGCTCTGGGATTGGGACATGTGGATGCGGATGCCTGAACAACGCCGGGGCCGA
GAGTGCATCATCCCTGACGTTTCCCGATCTACCACTTTGGCATCGTCCGCTCAACATGAATGGCTAC
TTTCAGGAGCCCTACTTCAAGAAGCACAAGTTCAACACGGTCCAGGTGTCCAGCTCAGGAATGTGGAC
AGTCTGAAGAAAAGCTTATGAAGTGAAGTTCACAGGCTGCTCAGTGAGGCTGAGGTTCTGGACCAC
AGCAAGAACCCTTGTGAAGACTTTTCCCTGCCAGACACAGAGGGCCACACCTACGTGGCCTTTATTCCGA
ATGGAGAAAGATGATGACTTCACCACCTGGACCCAGCTTGCCAAGTGCCTCCATATCTGGGACCTGGAT
GTGCGTGGCAACCATCGGGGCTGTGGAGATTGTTTCGGAAGAAGAACCCTTCTGGTGGTGGGGGTC
CCGGCTTCCCCTACTCAGTGAAGAAGCCACCCTCAGTACCCCAATTTTCTGGAGCCACCCCAAAAG
GAGGAGGGAGCCCGAGGACCCAGAACAGACA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238681
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAKRVDFTYSPHEDEAMVFLNMVAPGRVLICTVKDEGSFHLKDTAKALLRSLGSAQGPALGWRDWF
VGRKGGPVFGEKHSKSPALSSWGDVLLKTDVPLSSAEEAECHWADTELNRRRRRCFSKVEGYGVSVCSC
KDPTPIEFSPDPLPDNKVLNVPVAVIAGNRPNLYRMLRSLLSAQGVSPQMITVFIDGYEPMDDVVAL
FGLRGIQHTPISIKNARVSQHYKASLTATFNLFPEAKFAVVLLEEDLDIAVDFFSFLSQSIHLLLEEDSL
YCI SAWNDQGYEHTAEDPALLYRVETMPGLGWLRRSLYKEELEPKWPTPEKLWDWDMWMRMPEQRRGR
ECIIPDVSRSYHFGIVGLNMNGYFHEAYFKKHKFNTVPGVQLRNVDSLKKEAYEVEVHRLLEAEVLDH
SKNPCEDSFLPDTEGHTYVAFIRMEKDDDFTTWTQLAKCLHIWDLDVRGNHRGLWRLFRKKNHFLVGV
PASPYSVKKPPSVTPIFLEPPPKEEGAPGAPEQT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-Mlul

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).
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]