

## Product datasheet for **SC315615**

### POMT1 (NM\_001077365) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** POMT1 (NM\_001077365) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** POMT1  
**Synonyms:** LGMD2K; LGMDR11; MDDGA1; MDDGB1; MDDGC1; RT  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001077365 edited  
GCGGAGTGCCGAGCGGCCTCACCCCAACCGTCGGCCAGTCGGACGGTCCGAGGCGTT  
GCCGGGAGCCGGGCGCGCTCTGTGTGGACTCGGAGAAACGCGGGGCGTGCCTGAGCC  
CGCTTTTCTACAAGATGTGGGGATTTTTGAAGCGCCTGTAGTGGTGACGGCTGACATCA  
ACTTGAGCCTTGTGGCCCTGACTGGGATGGGGTACTGAGCCGGCTGTGGCGACTCACCT  
ACCCGCGGGCTGTGGTTTTGACGAAGTATATTATGGGCAGTACATCTCTTTTACATGA  
AACAAATCTTCTTGGATGACAGTGGGCCGCCATTTGGCCACATGGTGTGGCCTTGG  
GAGGTTATTTAGGAGGATTCGATGGCAATTTTTGTGGAACAGAATTGGAGCAGAATACA  
GTAGCAACGTGCCTGTGTGGTCCCTGCGCCTGCTGCCAGCACTCGCGGGGCGCTTGTGG  
TCCCCATGGCCTACCAGATAGTGTGGAGCTCCACTTTTCTCATTGTGCCCCATGGGAG  
CTGCTCTGTTGATGCTTATCGAGAATGCTCTCACTCAGTCAAGGCTAATGCTTTTGG  
AATCAGTGTTAATATTTTCAATCTATTGGCCGTGTTGTCTACCTGAAGTCTTCAACT  
GCCAAAAGCACAGCCCTTTTCTCTGAGCTGGTGGTTCTGGCTAACACTGACAGGGGTCG  
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TGTCTGTCACTGTGCTCGCCGAGCAGTGGCTTTGCTGGTCACTCCCGGTCGTCCTGACT  
TACTGTTCTTCTACGTCCACTTGATTCTAGTCTCCGCTCTGGGCCCCACGACCAATCA  
TGTCCAGTGCCTTCCAGGCCAGCTTAGAGGGAGGACTAGCTCGGATCACTCAGGGTCAGC  
CACTGGAGGTGGCCTTTGGGTCCCAGATCACTCTGAGGAACGCTTTGGGAAACCTGTGC  
CCTGCTGGCTTCAATCCACCAGGACACCTACCCATGATATATGAGAACGGCCGAGGCA  
GCTCCACCAGCAACAGGTGACCTGTTACCCCTTCAAAGATGTCAATAACTGGTGGATTG  
TAAAGGATCCCAGGAGGCACCAGCTGGTGGTGGAGCAGCCCTCCGAGACCTGTGAGGCACG  
GGGACATGGTGCAGCTGGTCCACGGCATGACCACCCGCTCCCTGAACACGCATGATGTTG  
CAGCCCCCTGAGCCCCATTACAGGAGGTCTCTGCTACATTGACTATAACATCTCCA  
TGCCCCCCAGAACCTCTGGAGACTGGAATTGTGAACAGAGGATCTGACACAGACGCTCT  
GGAAGACCATCTCTCAGAGTCCGCTTTGTGCACGTGAACACTCCGCTGTCTTAAAGC  
TGAGCGGGGCTCACCTCCCTGACTGGGGTATCGGCAACTGGAGATCGTCGGGGAGAAGC



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TGTCCTGGGGCTACACGGGAGCACGGTGTGGAACGTGGAGGAGCACCGATACGGCGCGA
GCCAGGAGCAGAGGGAGCGGGAACGGGAGCTGCACTCACCTGCGCAGGTGGACGTGAGCA
GGAACCTCAGCTTCATGGCGAGATTCTCGGAGCTGCACTGGAGGATGCTGGCGCTGAGAA
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ATATTGCCTACTGGTGCACCCAGGACCAGCGCTCAGATCCACCTACTTGGAAACATAG
TGATCTGGGTTTCGGGCAGCCTCGCTCTGGCCATCTACGCCCTGCTGCTTGTGGTACC
TGCTCCGACGGCGAAGAAATGTCCATGACCTCCCTCAGGATGCCTGGCTGCGCTGGGTGC
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AGAAGACTCTTCTCTACCACTACCTGCCCGCACTCACCTTCAAATCCTTCTGCTCC
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CACTCACCTACGGGGACAAGTCACTCTCGCCACATGAACTCAAGGCCCTTCGCTGAAAAG
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CACGCTGGGAGGACACGGGCTGGGCTGAGCAGGGCCTCTAGTGGAAACACATGGGGGTCTC
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TTCATGAACACCCAGCAACCTGAGCAAGTCCCGGCCCTGCCCTCAGCGAGCCCGGAGGC
GTCCTGGGACAGCTCAGTGTGGAGGGCCACCTGAACACGAGCCAGGGCTGGGGCTTGC
ATGTCATTGTCTATGACAGCGTCAAGACTGGCCCTTGGCACCGTGTGTGGAAACCT
CCCCTCTGAGACTCCACTGAGACGTGGCTGAGTGAATCTTCTCTGTCAGTGGTCAAGGT
GTGTCATCCATACAGCTCCATGCCTTTGTCTTTTTTAAATGTAATTAATAAAGGAACCAA
CTGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001077365
- Insert Size:** 3000 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone is found to be a good match to NM\_001077365.1 except for 2 SNPs.
- 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\\_001077365.1](#), [NP\\_001070833.1](#)
- RefSeq Size:** 3080 bp

RefSeq ORF: 2178 bp

Locus ID: 10585

UniProt ID: [Q9Y6A1](#)

Cytogenetics: 9q34.13

Protein Families: Transmembrane

Protein Pathways: O-Mannosyl glycan biosynthesis

**Gene Summary:** The protein encoded by this gene is an O-mannosyltransferase that requires interaction with the product of the POMT2 gene for enzymatic function. The encoded protein is found in the membrane of the endoplasmic reticulum. Defects in this gene are a cause of Walker-Warburg syndrome (WWS) and limb-girdle muscular dystrophy type 2K (LGMD2K). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2008]

Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 2 and 4 both encode isoform b. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.