

Product datasheet for **SC115661**

POMT1 (NM_007171) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POMT1 (NM_007171) Human Untagged Clone
Tag:	Tag Free
Symbol:	POMT1
Synonyms:	LGMD2K; LGMDR11; MDDGA1; MDDGB1; MDDGC1; RT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_007171, the custom clone sequence may differ by one or more nucleotides

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ATGTGGGGATTTTGAAGCGCCCTGTAGTGGTGACGGCTGACATCAACTTGAGCCTTGTGGCCCTGACTG
GGATGGGGTACTGAGCCGGCTGTGGCGACTCACCTACCCGCGGCTGTGGTTTTTACGAAGTATATTA
TGGGCAGTACATCTCTTTTACATGAAACAAATCTTCTTGGATGACAGTGGCCGCCATTTGGCCAC
ATGGTGTGCGCCTTGGGAGGTTATTTAGGAGGATTCGATGGCAATTTTTTGTGGAACAGAATTGGAGCAG
AATACAGTAGCAACGTGCCTGTGTGGTCCCTGCGCCTGCTGCCAGCACTCGCGGGGGCCTTGTGGTCCC
CATGGCCTACCAGATAGTGTGGAGCTCCACTTTTCTCATTGTGCCGCCATGGGAGCTGCTCTGTTGATG
CTTATCGAGAATGCTCTCATCACTCAGTCAAGGCTAATGCTTTTGGAAATCAGTGTAAATTTTTCAATC
TATTGGCCGTGTTGCTACCTGAAGTTCTTCAACTGCCAAAAGCACAGCCCTTTTTCTCTGAGCTGGT
GTTCTGGTAACACTGACAGGGTGCCTGTTCCTGTGACAGTGGGCATCAAGTACATGGGTGTGTTACG
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TGTGTTCTGTCACTTGTGCGCCGAGCAGTGGCTTTGCTGGTATCCCGTGTCTCTACTTACTGTTC
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CCAGCTTAGAGGGAGGACTAGCTCGGATCACCCAGGGTCAAGCACTGGAGGTGGCCTTTGGGTCCCAGG
CACTCTGAGGAACGTCTTTGGAAACCTGTGCCCTGCTGGCTTCAATCCCACCAGGACACCTACCCCATG
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CGGGGACATGGTGCAGCTGGTCCACGGCATGACCACCCGCTCCCTGAACACGCATGATGTTGCAGCCCC
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CAGGAACCTCAGTTCATGGCGAGATTCTCGGAGCTGACAGTGGAGGATGCTGGCGCTGAGAAGTATGAC
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GGCCATCTACGCCCTGTCTCTTGTGGTACCTGCTCCGACGGGAAGAAATGTCCATGACCTCCCTCAG
GATGCCTGGCTGCCTGGGTGCTGGCTGGGGCGCTGTGTGCCGGTGGCTGGGCAGTGAACACTCCCGT
TCTTCTGATGGAGAAGACTTCTCTACCACTACCTGCCCGCACTCACCTTCCAAATCCTTCTGCT
CCCTGTGGTCTGCAGCACATCAGCGACCACCTGTGCAGGTCCCAGCTCCAGAGGAGCATCTTACGGCC
CTGGTGGTGGCCTGGTACTCCTCCGCGTGCCACGTGTCCAACACGCTGCGCCCACTCACCTACGGGGACA
AGTCACTCTCGCCACATGAACCTCAAGGCCCTTCGCTGGAAGACAGCTGGGACATCTTGATCCGAAAACA
CTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007171 unedited
 GTCGNNAATTGTTAACTCCTATAGGCGGCCGGAATTCGGCACGAGGGCGGAGTGCCG
 AGCGGCCCTCACCCCAACCGTCGGCCAGTCGGACGGTCCGAGGCGTTGCCGGGAGCCG
 GGCGGGCTCTGTGTGGACTCGGAGAAACGCGGGGCGTCTGCCTGAGCCCGCTTTTCTAC
 AAGATGTGGGATTTTTGAAGCCCTGTAGTGGTGACGGCTGACATCACTTGAACCTT
 GTGGCCCTGACTGGGATGGGTTACTGAGCCGGCTGTGGGACTCACCTACCCGCGGGCT
 GTGGTTTTGACGAAGTATATTATGGGCAGTACATCTCTTTTTACATGAAACAAATCTTC
 TTCTTGGATGACAGTGGGCCGCCATTTGGCCACATGGTGTGCTGGCCTTGGGAGTTATTTA
 GGAGGATTCGATGGCAATTTTTGTGGAACAGAATTGGAGCAGAATACAGTAGCAACGTG
 CCTGTGTGGTCCCTGCGCCTGCTGCCAGCACTCGCGGGGGCCTTGTGGTCCCATGGCC
 TACCAGATAGTGTGGAGCTCCACTTTTCTCATTGTGCCCATGGGAGCTGCTCTGTTG
 ATGCTTATCGAGAATGCTCTCATCACTCAGTCAAGGCTAATGCTTTTGAATCAGTGTTA
 ATATTTTTCAATCTATTGGCCGTGTTCCTACCTGAAGTTCTTCACTGCCAAAAGCAC
 AGCCCTTTTTCTGAGCTGGTGGTTCTGGGCTACACTGACAGNGTCGTTGTTCTGT
 GCAGTGGGCATCAAGTACATGGGTGTTCACGTACGTGCTCGTGTGGTGTTCAGCT
 GTTCATGCCTGGCACCTGCTGGAGACAGACTTTGTCCATGTCTGTGTCTGTCACTG
 CTCGCCACGCGTGGCTTGTGTCTATCCGGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007171 unedited
 NTTGCTCTGGACCCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTGGCAGTTGGTTCCTTTTTTAATTACATTTAAAAAGACAAAGGCATGGGAGCT
 GTATGGATGACACACCTTTGACCACTGACGAGGGAAGATTTCACTCAGCCACGTCTCAGT
 GGAGTCTCAAAGGGGAGGTTTTCCACACAGCACGGTGCCAAGGGCCAGTCTTGACGCTGT
 CATAAACAAATGACATGCAAGCCCCAGCCCTGGCTCGTGGTTCAGGTGGCCCTCCAACACT
 GAGCTGTCCCAGGACGCCTGCCGGGCTCGCTGAGGGCAGGGCCGGGACTTGCTCAGGTTG
 CTGGGTGTTTCAAGAGGAGGATCGGGTCTGCCAGATCAAACCTCCACCCTGCAGCAGTTAG
 CAAGGACCAGGCCCTGGTCTGCTGAGGCTCCACTGCTGGCCCTGGGTTCTCGGCTTTTTT
 GTGCAATGACTCCTACGCTGGCCTCTGAAATACTCCCTGTGTCTTAGTTCAGGGGTAAAG
 ACACCGGATATCTTTATGTGCGAAAAAATTAACCTTTGACAAAAAGAAGTGTCTATTA
 AGAGCTTTTCAATGAGACCCCCATGTGTTTCCACTAAAGGCCCTGTTAAACCCAAACCCG
 TGCTCTCCACCGGGGGGCCCCCTGTTAATTATGTCATTTGACCAAGAACCTTTTAAC
 TTTATTCCGAACCCAAAAAGGGGGTGTCTTTGCCCCACTCCTTGGTTTCTTAAGGGTT
 TTGGGAACCAAAAAAGTCCCACTCTGCTTTTCCACCGAGAGGCCCTCTGAATTTATTG
 GGGAGAAAAAGGACTTTTCCCTCATAGGAAAGGGGCCACCCGTGTTGCACACCCTGG
 CACCCGACGGGAAACCAACCACCT

Restriction Sites:

NotI-NotI

ACCN:

NM_007171

Insert Size:

3240 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).

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_007171.2 , NP_009102.2
RefSeq Size:	3146 bp
RefSeq ORF:	2244 bp
Locus ID:	10585
UniProt ID:	Q9Y6A1
Cytogenetics:	9q34.13
Domains:	PMT, MIR
Protein Families:	Transmembrane
Protein Pathways:	O-Mannosyl glycan biosynthesis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1 and 6 both encode the same isoform (a). 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.</p>