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Product datasheet for SC325228

POMT1 (NM_001136114) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POMT1 (NM_001136114) Human Untagged Clone
Tag:	Tag Free
Symbol:	POMT1
Synonyms:	LGMD2K; LGMDR11; MDDGA1; MDDGB1; MDDGC1; RT
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001136114, the custom clone sequence may differ by one or more nucleotides

ATGGCCTACCAGATAGTGTTGGAGCTCCACTTTTCTCATTGTGCCGCCATGGGAGCTGCT
CTGTTGATGCTTATCGAGAATGCTCTCATCACTCAGTCAAGGCTAATGCTTTTGGAATCA
GTGTTAATATTTTTCAATCTATTGGCCGTGTTGTCCTACCTGAAGTTCTTCAACTGCCAA
AAGCACAGCCCTTTTTCTCTGAGCTGGTGGTTCTGGCTAACACTGACAGGGGTCGCTTGT
TCCTGTGCAGTGGGCATCAAGTACATGGGTGTGTTCACGTACGTGCTCGTGCTGGGTGTT
GCAGCTGTCCATGCCTGGCACCTGCTTGGAGACCAGACTTTGTCCAATGTCTGTGTGTTC
TGTCACTTGCTCGCCCGAGCAGTGGCTTTGCTGGTCATCCCGGTCGTCCTGTACTTACTG
TTCTTCTACGTCCACTTGATTCTAGTCTTCCGCTCTGGGCCCCACGACCAAATCATGTCC
AGTGCCTTCCAGGCCAGCTTAGAGGGAGGACTAGCTCGGATCACCCAGGGTCAGCCACTG
GAGGTGGCCTTTGGGTCCCAGGTCACTCTGAGGAACGTCTTTGGGAAACCTGTGCCCTGC
TGGCTTCATTCCCACCAGGACACCTACCCCATGATATATGAGAACGGCCGAGGCAGCTCC
CACCAGCAACAGGTGACCTGTTACCCCTTCAAAGACGTCAATAACTGGTGGATTGTAAAG
GATCCCAGGAGGCACCAGCTGGTGGTGAGCAGCCCTCCGAGACCTGTGAGGCACGGGGAC
ATGGTGCAGCTGGTCCACGGCATGACCACCCGCTCCCTGAACACGCATGATGTTGCAGCC
CCCCTGAGCCCCCATTCACAGGAGGTCTCCTGCTACATTGACTATAACATCTCCATGCCC
GCCCAGAACCTCTGGAGACTGGAAATTGTGAACAGAGGATCTGACACAGACGTCTGGAAG
ACCATCCTCTCAGAGGTCCGCTTTGTGCACGTGAACACTTCCGCTGTCTTAAAGCTGAGC
GGGGCTCACCTCCCTGACTGGGGGTATCGGCAACTGGAGATCGTCGGGGAGAAGCTGTCC
CGGGGCTACCACGGGAGCACGGTGTGGAACGTGGAGGAGCACCGATACGGCGCGAGCCAG
GAGCAGAGGGAGCGGGAACGGGAGCTGCACTCACCTGCGCAGGTGGACGTCAGCAGGAAC
CTCAGCTTCATGGCGAGATTCTCGGAGCTGCAGTGGAGGATGCTGGCGCTGAGAAGTGAT
GACTCGGAACACAAGTACAGCTCCAGCCCACTGGAGTGGGTCACCCTGGACACCAATATT
GCCTACTGGCTGCACCCCAGGACCAGCGCTCAGATCCACCTACTTGGAAACATAGTGATC
TGGGTTTCGGGCAGCCTCGCTCTGGCCATCTACGCCCTGCTGTCCTTGTGGTACCTGCTC
CGACGGCGAAGAAATGTCCATGACCTCCCTCAGGATGCCTGGCTGCGCTGGGTGCTGGCT
GGGGCGCTGTGTGCCGGTGGCTGGGCAGTGAACTACCTCCCGTTCTTCCTGATGGAGAAG
ACACTCTTCCTCTACCACTACCTGCCCGCACTCACCTTCCAAATCCTTCTGCTCCCTGTG
GTCCTGCAGCACATCAGCGACCACCTGTGCAGGTCCCAGCTCCAGAGGAGCATCTTCAGC
GCCCTGGTGGTGGCCTGGTACTCCTCCGCGTGCCACGTGTCCAACACGCTGCGCCCACTC
ACCTACGGGGACAAGTCACTCTCGCCACATGAACTCAAGGCCCTTCGCTGGAAAGACAGC
TGGGACATCTTGATCCGAAAACAC

Restriction Sites: Please inquire

ACCN: NM_001136114

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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001136114.1, NP_001129586.1
RefSeq Size:	2821 bp
RefSeq ORF:	1827 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 (5) lacks two alternate exons and uses an alternate in-frame splice site compared to variant 1. The resulting isoform (d) is shorter at the N-terminus and lacks an internal segment compared to isoform a. Variants 5 and 8 both encode the same isoform (d). 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.