

# Product datasheet for RC205277L3

### OriGene Technologies, Inc.

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## POMT1 (NM\_001077365) Human Tagged Lenti ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** POMT1 (NM\_001077365) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: POMT1

Synonyms: LGMD2K; LGMDR11; MDDGA1; MDDGB1; MDDGC1; RT

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

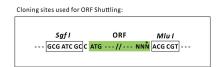
E. coli Selection: Chloramphenicol (34 ug/mL)

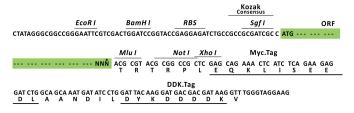
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC205277).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 



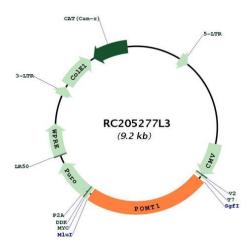


<sup>\*</sup> The last codon before the Stop codon of the ORF.





#### Plasmid Map:



**ACCN:** NM\_001077365

ORF Size: 2175 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:** 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: <u>NM 001077365.1, NP 001070833.1</u>

**RefSeq Size:** 3080 bp **RefSeq ORF:** 2178 bp



### POMT1 (NM\_001077365) Human Tagged Lenti ORF Clone - RC205277L3

 Locus ID:
 10585

 UniProt ID:
 Q9Y6A1

 Cytogenetics:
 9q34.13

**Protein Families:** Transmembrane

**Protein Pathways:** O-Mannosyl glycan biosynthesis

MW: 82.4 kDa

**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

20081