

Product datasheet for RC204775L1

OriGene Technologies, Inc.

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TMEM27 (CLTRN) (NM_020665) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TMEM27 (CLTRN) (NM_020665) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: CLTRN

Synonyms: NX-17; NX17; TMEM27

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC204775).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_020665

ORF Size: 666 bp





TMEM27 (CLTRN) (NM_020665) Human Tagged Lenti ORF Clone - RC204775L1

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 020665.2</u>

 RefSeq Size:
 1580 bp

 RefSeq ORF:
 669 bp

 Locus ID:
 57393

 UniProt ID:
 Q9HBJ8

Cytogenetics: Xp22.2

Protein Families: Transmembrane

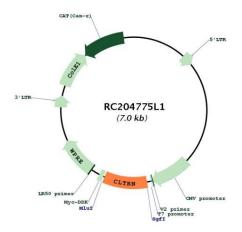
MW: 25.2 kDa

Gene Summary: This gene encodes a type 1 transmembrane protein that is important for trafficking amino

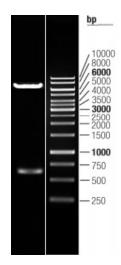
acid transporters to the apical brush border of proximal tubules. The encoded protein binds to amino acid transporters and regulates their expression on the plasma membrane. It also plays a role in controlling insulin exocytosis by regulating formation of the SNARE (soluble Nethylmaleimide-sensitive-factor attachment protein receptor) complex in pancreatic beta cells. The extracellular domain of the encoded protein may be cleaved and shed from the plasma membrane specifically in pancreatic beta cells. [provided by RefSeq, Jun 2013]



Product images:



Circular map for RC204775L1



Double digestion of RC204775L1 using Sgfl and Mlul $\,$