

## **Product datasheet for RC219177L2**

#### OriGene Technologies, Inc.

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### KTEL1 (POGLUT1) (NM\_020231) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: KTEL1 (POGLUT1) (NM\_020231) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: KTEL1

Synonyms: CLP46, MDSRP, C3orf9, MDS010, hCLP46, KDELCL1, MGC32995

Mammalian Cell None

Selection:

**Vector:** pLenti-C-mGFP (PS100071)

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

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC219177).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





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

ACCN: NM\_020231

ORF Size: 1176 bp





#### KTEL1 (POGLUT1) (NM\_020231) Human Tagged Lenti ORF Clone - RC219177L2

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** <u>NM 020231.3</u>, <u>NP 064616.2</u>

RefSeq Size: 1973 bp
RefSeq ORF: 1178 bp
Locus ID: 56983
Cytogenetics: 3q13.33
Domains: CAP10

**MW:** 46 kDa

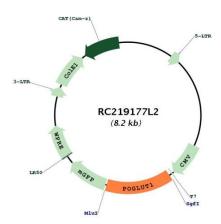
**Gene Summary:** This gene encodes a protein with both O-glucosyltransferase and O-xylosyltransferase activity

which localizes to the lumen of the endoplasmic reticulum. This protein has a carboxy-terminal KTEL motif which is predicted to function as an endoplasmic reticulum retention signal. This gene is an essential regulator of Notch signalling and likely plays a role in cell fate and tissue formation during development. It may also play a role in the pathogenesis of leukemia. Mutations in this gene have been associated with the autosomal dominant genodermatosis Dowling-Degos disease 4. Alternative splicing results in multiple transcript

variants. [provided by RefSeq, Apr 2014]



# **Product images:**



Circular map for RC219177L2