

Product datasheet for RC201969L3

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OriGene Technologies, Inc.

PLOD1 (NM_000302) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PLOD1 (NM_000302) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: PLOD1

Synonyms: EDS6; EDSKCL1; LH; LH1; LLH; PLOD

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(RC201969).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000302

ORF Size: 2181 bp





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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 000302.2</u>

RefSeq Size:3047 bpRefSeq ORF:2184 bpLocus ID:5351

UniProt ID: Q02809

Cytogenetics: 1p36.22

Domains:2OG-Fell_Oxy, P4HcProtein Families:Druggable GenomeProtein Pathways:Lysine degradation

MW: 83.6 kDa

Gene Summary: Lysyl hydroxylase is a membrane-bound homodimeric protein localized to the cisternae of

the endoplasmic reticulum. The enzyme (cofactors iron and ascorbate) catalyzes the

hydroxylation of lysyl residues in collagen-like peptides. The resultant hydroxylysyl groups are

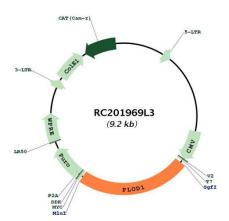
attachment sites for carbohydrates in collagen and thus are critical for the stability of intermolecular crosslinks. Some patients with Ehlers-Danlos syndrome type VI have

deficiencies in lysyl hydroxylase activity. Two transcript variants encoding different isoforms

have been found for this gene. [provided by RefSeq, Oct 2015]



Product images:



Circular map for RC201969L3