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Product datasheet for RC201969L2V

PLOD1 (NM_000302) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PLOD1 (NM_000302) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PLOD1
Synonyms:	EDS6; EDSKCL1; LH; LH1; LLH; PLOD
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000302
ORF Size:	2181 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201969).
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.
RefSeq:	NM_000302.2
RefSeq Size:	3047 bp
RefSeq ORF:	2184 bp
Locus ID:	5351
UniProt ID:	Q02809
Cytogenetics:	1p36.22
Domains:	2OG-FeII_Oxy, P4Hc
Protein Families:	Druggable Genome

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Protein 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]