

Product datasheet for **MR210322L4V**

Plod1 (NM_011122) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Plod1 (NM_011122) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Plod1
Synonyms:	2410042F05Rik; AI854890; AV007929; Lh1; Plod
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_011122
ORF Size:	2187 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210322).
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_011122.2
RefSeq Size:	3268 bp
RefSeq ORF:	2187 bp
Locus ID:	18822
UniProt ID:	Q9R0E2
Cytogenetics:	4 78.57 cM



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Gene Summary:

Part of a complex composed of PLOD1, P3H3 and P3H4 that catalyzes hydroxylation of lysine residues in collagen alpha chains and is required for normal assembly and cross-linking of collagen fibrils (PubMed:27119146). Forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens (By similarity). These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links (PubMed:27119146).[UniProtKB/Swiss-Prot Function]