

## Product datasheet for **SC125458**

### LEPREL1 (P3H2) (NM\_018192) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LEPREL1 (P3H2) (NM_018192) Human Untagged Clone
Tag:	Tag Free
Symbol:	LEPREL1
Synonyms:	LEPREL1; MCVD; MLAT4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Restriction Sites:	NotI-NotI
ACCN:	NM_018192
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<u><a href="#">NM_018192.2</a></u> , <u><a href="#">NP_060662.2</a></u>
RefSeq Size:	3396 bp
RefSeq ORF:	2127 bp
Locus ID:	55214



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UniProt ID: [Q8IVL5](#)

Cytogenetics: 3q28

Domains: 2OG-Fell\_Oxy, P4Hc

**Gene Summary:** This gene encodes a member of the prolyl 3-hydroxylase subfamily of 2-oxo-glutarate-dependent dioxygenases. These enzymes play a critical role in collagen chain assembly, stability and cross-linking by catalyzing post-translational 3-hydroxylation of proline residues. Mutations in this gene are associated with nonsyndromic severe myopia with cataract and vitreoretinal degeneration, and downregulation of this gene may play a role in breast cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).