

Product datasheet for **SC325166**

LEPREL1 (P3H2) (NM_001134418) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEPREL1 (P3H2) (NM_001134418) Human Untagged Clone
Tag:	Tag Free
Symbol:	LEPREL1
Synonyms:	LEPREL1; MCVD; MLAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC325166 representing NM_001134418.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAAATGCAGCAGAACATTGAGAATTACAGGGCGACAGCTGGTGTGAAGCATTGCAGTTGGTAGAC
AGAGAAGCCAAGCCACACATGGAGAGTTACAATGCAGGAGTTAAACATTATGAGGCTGATGACTTTGAG
ATGGCTATCAGGCACTTCGAACAAGCCTTAAGAGAATATTTTCGTTGAAGATACAGAATGCCGGACCCTA
TGTGAGGGGCTCAGAGATTTGAAGAATATGAGTATTTAGGGTATAAAGCTGGTCTGTATGAAGCTATT
GCAGATCACTACATGCAGGTGCTTGTTCAGCATGAATGTGTGAGGAACTTGCCACCCGCCCTGGC
CGCCTCTCTCCATCGAGAATTTCTTCTCTGCACTATGATTACCTACAGTTTGCCTACTATCGAGTT
GGTGAATGTGAAAGCCCTGGAGTGTGCCAAAGCCTATCTTCTATGCCATCCAGATGATGAGGATGTC
CTAGACAAATGTGGATTACTATGAGAGTCTGCTGGATGATAGCATTGACCCGGCATCCATTGAGGCCAGA
GAGGATTTAAACAATGTTTGTAAACGTCATAAGCTGGAGTCTGAGCTGATAAAATCAGCTGCAGAAGGT
CTGGGGTTTTTACACTGAACCGAATTATTGGATCAGATATGGAGGACGACAGGATGAGAATCGGGTC
CCTTCAGGAGTGAACGTAGAGGGAGCAGAAGTTCATGGATTCTCAATGGGAAAAAAGCTATCACCCAAG
ATAGATCGAGACCTAAGAGAAGGTGGTCTCTACTCTATGAGAACATCACATTCGTCTACAACCTCGGAG
CAGCTGAACGGGACTCAGCGGGTCTCCTGGATAACGTCCTGTCCGAAGAAGCAGTGCCGGGAGCTCCAC
AGCGTGGCCAGTGGAAATCATGCTTGTGGTGTGGATACAGAGGAAAAAATTCACCCCATACACCCAAT
GAAAAGTTTGAAGGTGCAACTGTCTGAAAGCACTCAAATCTGGTTATGAAGGTCGAGTCCCCTGAAAG
AGCGCTCGTCTGTTTTATGACATCAGCGAAAAGGCTCGAAGGATTGTAAGTCTTATTTTATGCTGAAC
TCAACTCTGATTTTTCTATACACACATGGTCTGCCGAACAGCCCTGTCTGGTCAGCAGGATAGAAGA
AATGACCTCAGTCATCCCATCCATGCTGACAACGTTTGTGGATCCAGAGGCCAACGAATGCTGGAAAG
GAGCCTCCTGCTTACACATTTTCGAGACTATAGTCTCTCCTATATGAATGATGACTTTGAAGGAGGA
GAATTCATATTCAGAGATGGATGCTAAGACTGTGACTGCCTCTATAAAAACCAAATGTGGGCGCATG
ATCAGCTTCTCATCTGGAGGAGAGAACCCTCATGGGGTGAAGGCAGTACCAAGGAAAGAGGTGTGCT
GTGGCTCTGTGGTTCACCTTGGACCCACTTTATAGAGAATTGGAGCGAATACAGGCTGATGAAGTATT
GCAATTCTGGATCAAGAACAGCAAGGGAAGCATGAACTGAATATCAACCCAAAGATGAGCTAAAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001134418
- Insert Size:** 1584 bp
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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: [NM_001134418.1](#)

RefSeq Size: 3082 bp

RefSeq ORF: 1584 bp

Locus ID: 55214

UniProt ID: [Q8IVL5](#)

Cytogenetics: 3q28

MW: 60.4 kDa

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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus, compared to isoform a.