

## Product datasheet for **MC206271**

### Plod1 (BC006599) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plod1 (BC006599) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plod1
Synonyms:	Plod, LH1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC006599  
 GCGGGTTGTTCCCGAGACTCCGCTATGCGGTCCCTGCTGCTCCTGGCCCCGTTGGCTGGCTTCTTCTGG  
 TCCAGGCGAAGGATGACGCCAAGCTAGAGGACAACCTTCTGGTCTCACTGTGGCCACAAAAGAGACTGA  
 GGGCTTCCGCGCTTCAAGCGTTCAGCTCAGTTCTTCAACTACAAGATCCAGTCACTGGGCTGGGGGAG  
 GACTGGAGTGTGGATGGAGGACCAGCAGCAGCAGGTGGAGGACAGAAGGTTCCGCTGCTGAAGAAGGCAC  
 TGGAAAAGCACGCAGACAAGGAAGACCTGGTTATTCTCTTCGTTGACAGTTATGACGTGGTGTTCCTC  
 GGGACCCCGGAACTCTTAAAGAAGTTCACAGCAGGCCAAGGCCAGGTGGTCTTCCGACAGGAGCAT  
 ATCTACCCGGACCGGAGGCTGGAGGCCAAGTATCCCACAGTCCCCGACGGCAAGCGGTTCTGGGCTCTG  
 GAGGCTTCATTGGTTATGCCCCAGCCTCAGCAAAGTGGTGGCCGAGTGGGAAGGCCAGGACAGTACAG  
 CGACCAGCTCTTTTATACCAAGATCTTCTTGAACCCGGAGAAGAGGGAGCAAATCAATATCAGCCTGGAC  
 CATCGCTGCCGAATCTTCCAGAACCTGGATGGAGCCTTGGATGAAGTTGTGCTCAAGTTTGAATGGGCC  
 ACGTGAGAGCACGAAATCTGGCCTATGACACCCTCCCAGTGGTCGTTTATGGCAATGGGCCACCAAGCT  
 GCAGCTGAACTACCTGGCAACTACATTCTCGATTCTGGACCTTCGAGACGGGCTGCACCGTGTGTGAC  
 GAGGGCTACGGAGCCTCAAGGGCATTGGGGATGAAGCTCTCCCCACTGTCTGGTGGTGTGTTTATTG  
 AGCAGCCACACCATTTCTATCCTTGTTTTTCTGCGGCTGCTGCGCCTACGATACCTCAGAAACAGAT  
 GCGGCTCTTATTCAACACAGGAACGGCACCAAACTTCAGGTAGAGCAGTTCCTGGCGGAGCAGCGC  
 AGTGAGTACCAGTCTGTGAAGCTAGTGGTCTGAGGTGCGCATGGCCAACGCCGACCCAGGAACATGG  
 GCGCAGACCTGTGCCGTGAGGACCAAACTGCACCTACTACTTCAAGTGTGGATGCTGATGTGGCTGTGAC  
 GGAGCCGAACAGCCTAAGGCTCTGATTGAACAAAACAAGAAATGTCATTGCGCCACTCATGACCCGCCAC  
 GGGAGGCTCTGGTCCAATCTGGGGGGTCTGAGTGCAGATGGGTAACGCCCCGCTCAGAGGACTACG  
 TGGACATTGTGACAGGGCGTCTGTTGGCGTCTGGAACGTGCCTTACATCTAAACATCTACCTGATCAA  
 GGGCAGTGCCTGCGGGCTGAACTGCAGAACGTAGACCTTTTCCACTACAGCAAGCTGGATTCCGACATG  
 AGTTTTCTGCGCAATGTCCGACAGCAGGAGGTTCATGTTCTGACCAACCGGCACACCTTTGGCCACC  
 TGCTTTCCCTGGATAACTACCAGACCACCCACCTACATAATGATCTCTGGGAGGTTCAGCAACCTGA  
 GGACTGGAAGAAAAGTACATCCATGAGAATTACACCAAGGCCCTGGCGGGAAGCTGGTGGAGACGCT  
 TGTCCGGATGTCTACTGTTCCCATCTTACGGAGGCGGCTGTGATGAGCTGGTGGAGGAGTGGAAAC  
 ACTATGGCCAGTGGTCTCTGGGTGATAATAAGGACAACCGGATCCAGGGTGGTACGAAAACGTGCCAC  
 TATCGACATCCATATGAACCAGATCACCTTCGAGCGGGAGTGGCACAAGTTCTGGTGGAGTACATCGCC  
 CCCATGACAGAGAAGCTGTACCTGGCTACTACACTAGGGCCAGTTTGTCTAGCCTTCGTCGTCGCT  
 ATAAGCCCGATGAGCAGCCTTCTTGTGCCCCACCATGACGCTCTACCTTACCGTCAACATAGCCCT  
 GAACAGGGTTGGGAAGATTATGAGGGCGAGGTTGCCGATTTCTGCGCTACAACCTGCTCCGTGAGGGCA  
 CCAAGGAAGGGCTGGGCCCTCTGCACCCCGGGCGGCTCACACACTATCAGGAGGGCTTCTACTACCA  
 AGGGCACGCGCTACATTGCTGTGCTTTTCGTCGATCCCTAACTGCCAGTGCCTGCCTCTGTTCCACCTA  
 TCTCATCGTTGACAACCACTGCCAGCAGCCCTTGGGGCCAAGGAACCCAATCCAACCTCTGATTCTGTA  
 ACTCCTGTAGCTCTTGAAGCCACCAGTTGGAACGATGGGGTGCAGGCCAGAGATGGGGCACCCACTCCAG  
 GACTGGGGCTGCCATGGTGTCTCCCACTAATCTCAGGAGATGGTAACGCTCATCTTCAAGGAGTTCCAG  
 CCCCCCTTTTCTCTGACTTTCCCTGGGGCCAGACTTCGACGGAGCTGCCTGGGATGCTGGAGAGTCAG  
 AAGCTTTGCCTAGAGCAGCTCTGGAAGGGCTAGCCCCAGGATTCTGTTTCAAGTATCAGTGCCACCAAG  
 GTCTGGTCAACCCACCTACCCAACTCCACCCGAACCTAGGACTCTTGTATGCCCTCTCTTTTTCAGGTT  
 TTTATACCAAGAGCAAATAGTTGTCTCTATTGAGACTGTAACCTCGAAATCCTCCCGGGGGCAGGAAAG  
 ACATCTGTGACAATGCTTGGTCTCTACTGACCCTGCTTGGGGGAGGGGATATGTCCACACTGTACTGG  
 GTCACCCTGTCCCGATGCCTCTGGAGACAGGGACAGAGACGAGAGTTCTATTAATGTCGTTCAAACCCAC AAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI  
**ACCN:** BC006599  
**Insert Size:** 2187 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">BC006599</a> , <a href="#">AAH06599</a>
<b>RefSeq Size:</b>	2886 bp
<b>RefSeq ORF:</b>	2187 bp
<b>Locus ID:</b>	18822
<b>Cytogenetics:</b>	4 78.57 cM
<b>Gene Summary:</b>	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]