

Product datasheet for **MC206114**

Plod3 (BC043047) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plod3 (BC043047) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plod3
Synonyms:	AI414586; LH3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC043047
 CAAACCTAATTCGGTCGCATTGTGGTTACCCAAAAAAAAAAAAATCTGAGAGCCGCCTGCAAATGGTCA
 CTTTTTAAAACTGGCGTGGTGGTCTTTAGGGGAGCGCTCTTGTCCCTGTGCCCTTTGCATCCCCGGTG
 CGTGTCCCCGCGCTGCGGGACAGGATAGGCAGGTTTCGGTGGCTTTGTTGAACCCAGACCCACGAGGATGT
 CCGCGCGATCCCCTCCGGCTTCCCGGCCCTCCGGGCCGTCGCCCCCGCGCGCCACCCAGGCC
 TTGCTGTCTGTGTTCTCCGGGTGAGACTTGTGGTCAAGACCCGCCCGCGCTCGCTCGACCCCTCCT
 AAAAGGTCACCTCCCCTCCCGGGGGATTTCGGTTGCTCCGGTGTGAGTCAGGCAGTGCCACGACCCGGAC
 CCTCGGCTCCTCCCACCTCCAGCCCGCGCCCGGGACAATCCTTGCTTGTCTCGCCGTCTGCATCT
 CGGGTTTTTCGGTGGCCTCGGGTTACGCCTTTTTCCAGGGCGGAGTCCCAGCACAGCTCCTCCTCAG
 CGGGCTCGGTTTTCCCTTTTCCAGAATCTTCCGGGGCGTCCGAATCCAGGCGCTCAGCTCAGCGCCGG
 TGCGGGCTGGGTGTAGCCTAAGCGTGTGCTAGCCATGGCTGCGGCAGGCCCGGAACCCCGGCTTTTGC
 TCCTGCTCCTGCTGCTGCTGCCCGCTGCCCGCTAACTTCTGCCTCCGATCGACCCCGGGCGCCAA
 TGCTGTCAACCCAGACAAATTGCTGGTGTACTGTGGTACGGCAGAGACAGAGGGGTACCGCGTTTTT
 CTGCAGTCTCGGAGTTCTTAACTACTGTACGGACCTGGGCTGGGACAGGAGTGGCAGGGGGTG
 ATGTGGCTCGAACAGTTGGTGGAGGCCAGAAGGTGAGTGGCTCAAGAAGGAAATGGAGAAATATGCAGA
 TCAGAAAGACATGATCATCATGTTTGTGACAGCTACGACGTGATTCTGGCAAGCAGCCGACAGAGCTG
 CTGAAGAAGTTTGTTCAGAGTGGCAGTCACTGCTGTTCTGCTGAGAGCTTCTGCTGGCTGAGTGGG
 GGCTGGCAGAGCAGTACCCTGAGGTGGGCATGGGAAGCGCTTCCCTCAACTCTGGTGGATTATCGGCTT
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 ACTCAACTGTACTGGACCCAGGGCTGCGGGAGAACTCAAAGTACTGAGTCTGGACATAAATCCCGGATCT
 TTCAGAACCTCAATGGAGCCTTAGATGAAGTGTCTTAAAGTTTGACCAGAATCGTGTGCGCATCCGGAA
 TGTGGCTACGACACACTTCTGTTGTGGTCCATGGAAATGGTCCACTAAGTCCAGCTCAACTACCTG
 GGAACACTATGCCCAATGGCTGGACTCCCAGGGAGGCTGTGGATTCTGCAACCAGACCTGAGGACAC
 TCCCGGGGGGCGAGCCTCCCCCGGGTCTTCTGGCCGTGTTTGTGGAGCAGCCTACTCCTTCTGCC
 TCGGTTCTGACGCGCTACTGCTCCTGGATTACCCCGGACAGGATCTCTCTTCTTCCACAACAGC
 GAGGTGTACCACGAGCCTCATATTGCAGATGCCTGGCCACAGCTCCAGGACCATTTTTAGCTGTAAAGC
 TGGTGGGGCCAGAGGAGGCCCTGAGCGCAGGGGAGGCCAGGGACATGGCCATGGACAGCTGTGCGCAGAA
 CCCTGAGTGTGAGTTCTACTTTAGCCTGGATGCTGATGCCGTCTTACGAACCCGGAGACCTTGCCTGTC
 TTGATTGAACAAAACAGGAAGGTAATAGCTCCCATGCTTCCCGCATGGCAAGCTCTGGTCCAACCTTCT
 GGGGTGCCCTGAGCCCCAATGAGTACTACGCCGCTCCGAAGACTACGTGGAAGTGGTGCAGCGGAAGCG
 AGTGGGCGTGTGGAATGTACCCTACATATCTCAGGCATATGTGATCCGCGGGGAGACCCTGAGGACTGAA
 CTGCCCAAAAAGGAGGATTTCTCCAGCAGCGACACAGACCAGATATGGCTTTCTGCAAGAGCGTCCGGG
 ACAAGGGCATTTCTCCACCTCAGCAACCAGCAGGATTTGGCCGGCTGCTGGCTACTTCTCGCTATGA
 CACAGACCACCTACACCCAGACCTTGGCAGATCTTTGACAACCTGTGGACTGGAGAGAACAGTACATT
 CACGAGAATTACAGCCGGGCCCTGGATGGGGAAGGGCTAGTGGAAACAGCCATGCCAGATGTGTACTGGT
 TCCCACTGCTGACCGAGCAGATGTGTGATGAGCTGGTGGAGGAAATGGAACACTATGGCCAGTGGTCTGG
 AGGCCGGCAGGAGATTCCAGGTTGGCTGGAGGATACGAGAATGTTCCACCGTTGATATCCACATGAAA
 CAGGTGGGATACGAGGACCAGTGGCTTACGCTGCTGCGGACATATGTGGGGCCATGACGGAGTACCTGT
 TCCCTGGCTACCAACCAAGACACGGGCAGTGAACCTCGTGGTCCGCTACCGCCAGATGAGCAGCC
 CTGCTTTCGGCCACCAATGACTCGTCCACCTTCACTCTCAATGTCGCCCTCAACCACAAGGGTGTAGAT
 TATGAGGGAGGGCTGCGCCTTCTGCGTTACGACTGCAGAATCTCCTCTCCGAGGAAAGGCTGGGCC
 TCCTGCACCTGGCCGCTCACACTACCATGAGGGGCTGCCACCACCCGGGGTACTCGATACATCAT
 GGTGTCTTTGTTGACCCCTGACACTCAACAGTCTGCCAACCTTCTCTGCCACTGTGCCTTGTGGAC
 AACCTGGGTGCGCATTCTCAGAGAGAGGGGACGCTGCCCGTCTCATCTCCCGAGAGTGTCTGTGCTG
 GGATGGAATGTGCTGGTCCCAACAGTCTCAGGAGTCCCTGGAGTCTTCCACTTGGCCACTGACCCCAT
 GGACTCAGGAAAGTGGACTTCTGAGGGTCCCCTGCCTGATAAATATTAAGCTTCTCAGCCTCACTT
 CAATAAAAGGATGTTTGTAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: BC043047
Insert Size: 2226 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).
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">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:	BC043047 , AAH43047
RefSeq Size:	3186 bp
RefSeq ORF:	2226 bp
Locus ID:	26433
Cytogenetics:	5 76.09 cM
Gene Summary:	Multifunctional enzyme that catalyzes a series of post-translational modifications on Lys residues in procollagen (PubMed:16447251). Plays a redundant role in catalyzing the formation of hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens (PubMed:16447251). Plays a redundant role in catalyzing the transfer of galactose onto hydroxylysine groups, giving rise to galactosyl 5-hydroxylysine (By similarity). Has an essential role by catalyzing the subsequent transfer of glucose moieties, giving rise to 1,2-glucosylgalactosyl-5-hydroxylysine residues (PubMed:16447251, PubMed:16467571, PubMed:21220425). Catalyzes hydroxylation and glycosylation of Lys residues in the MBL1 collagen-like domain, giving rise to hydroxylysine and 1,2-glycosylgalactosyl-5-hydroxylysine residues (PubMed:25419660). Catalyzes hydroxylation and glycosylation of Lys residues in the ADIPOQ collagen-like domain, giving rise to hydroxylysine and 1,2-glycosylgalactosyl-5-hydroxylysine residues (PubMed:23209641). Essential for normal biosynthesis and secretion of type IV collagens (PubMed:15377789, PubMed:16467571, PubMed:17873278). Essential for normal formation of basement membranes (PubMed:15377789, PubMed:16467571). [UniProtKB/Swiss-Prot Function]