

Product datasheet for **MC205365**

Plod2 (NM_011961) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Plod2 (NM_011961) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Plod2 |
| Synonyms: | D530025C14Rik; LH2; Plod-2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC021352
 CCACGCGTCCGCTCAGCGTCTCGCGAGAAGTCCTCGCCACAGGCCTTCGGCTCCCGGGTTCAGGGGCGGA
 TGGGGGACCGCGGAGCGAGGCGGGGGCGGCTGATGCCATGCTCGCCCTGCTCTCCTGGGCGGCCGGCT
 GGGCGTGGCGGAGGAGACGCCGGGGCGCATCCCTGCAGATAAATTATTAGTCATAACTGTCGCAACAAAA
 GAAATGATGGATTCCACAGATTTATGAATTCAGCCAAGTATTTCAATTACACTGTGAAGTTCTTGGTC
 AAGGTCAAGAGTGGAGAGGCGGTGATGGAATGAACAGTATCGGAGGGGGCCAGAAGGTGAGATTACTGAA
 AGAAGCTATGGAGCACTACGCCAGTCAGGAAGATCTGGTCATCTTGTTTACCGAGTGTTTTGATGTTGTA
 TTTGCTGGTGGTCTGAAGAAGTTCTTAAAAAGTTCCAAAAGACAAATCATAAAATCGTCTTTGCAGCGG
 ACGGGCTGCTGTGGCCAGATAAGCGGCTGGCAGACAAGTACCCTGTTGTGCACATTGGGAAACGCTACCT
 GAATTCTGGAGGCTTTATTGGCTATGCCCGTACATCAGCCGTCTGGTCCAGCAGTGAATCTGCAGGAT
 AATGATGATGATCAGCTCTTTTACACGAAAGTTTACATCGACCCACTGAAGAGGGGAAAGCTTTTAACTCA
 CACTGGATCACAATGCAAAATTTTCCAGGCTTGAATGGAGCTACAGATGAAGTTGTTTTAAAGTTTGA
 AAATGGTAAAAGCAGAGTGAAGAATACATTTTATGAAACTGCCAGTGGCAATTAATGGAATGGGCC
 ACCAAGATTCTCCTGAATTAATTTGAAACTATGTTCCAAACTCATGGACACAGGAAAATGGCTGTGCGC
 TTTGTGATGTTGACACAATTGACTTGTCTACAGTAGATGTCCCTCCCAAGTTACTGTTGTTTTTAT
 TGAACAACCAACCCCTTTCTACCTCGATTCTGAACCTACTGTTAACACTGGATTATCCCAAAGAGCC
 CTTCAACTCTTTATTCATAATAAAGAAGTTTATCATGAAAAGGACATCAAAGTGTGTTGATAAAGCTA
 AGCATGACATCAGCTCTATAAAAAATAGTAGGACCAGAGGAGAACCTAAGTCAAGCAGAAGCCAGGAACAT
 GGGCATGGATTTCTGCCGTGAGGATGAAAAGTGTGATTACTACTTTAGTGTGGATGCAGATGTTGTTTTG
 ACAAAACCAAGAACTTTAAAAATTTTGAATGAACAAAACAGGAAAATCATTGCTCCTCTTGTGACACGTC
 ATGAAAGTGTGGTCCAACCTTTGGGGAGCACTGAGTCTGATGGGTATTATGCTCGCTCTGAAGATTA
 CAGGAAAGACACTCCGATCTGAGATGAATGAAAGGAACCTATTTTGTCCGTGATAAGTTGGATCCCGATA
 TGGCTCTTTGCCCAATGCTAGAGATATGGGTGTGTTTATGTACATTTCTAACAGACATGAATTTGGACG
 GCTGATATCAACTGCTAATTACAACACTTCCCATCTTAACAATGACTTCTGGCAGATTTTGAATCCC
 GTGGATTGGAAGGAAAAATATATAAATCGTGATTATTCAAAGATTTTCACTGAAAATATAGTCGAGCAGC
 CTTGTCCAGATGTCTTCTGGTTTCCCATATTTTCTGAACGAGCCTGTGATGAGTTGGTAGAAGAAATGGA
 GCATTATGGCAAGTGGTCCGGCGAAAGCATCACGATAGCCGCATATCGGGTGGTTATGAAAATGTCCCG
 ACTGATGATACTCATATGAAGCAGATCGGGCTGGAGAATGTTGGCTTCATTTCCGAGAGTTCATTG
 CTCAGTCACACTGAAGGTCTTCGAGGCTATTATACAAAGGATTTGCACTGCTGAATTTGTAGTAAA
 GTACTCACCTGAAAGACAGCGCTCGCTCCGTCACCACGATGCCTCAACCTTTACCATCAACATTGCT
 CTGAATAATGTAGGAGAGGATTTTCCAGGAGGTGGATGCAAAATTTCTGAGGTATAAATGCTCCATTGAGT
 CCCACGAAAAGGCTGGAGCTTCATGCATCCTGGGAGGCTCACACATTTGCACGAAGGACTTCTGTAA
 AAATGGAACACGATACATTGCAGTGTCAATTTATAGATCCCTAAGTTATTTACGTAACCTCAAACCTGAATGG
 CTCTCTGAGATGGATGACTGGCGTGAACATGTCTCTGAAGTTGTACTTGAGAAGCAAGAAGAATAATGT
 CAACAGAACAACATCACTTTGGGCCAAGCATTTGAACACTTTTTATATAAAATTTGTGATGTCTCTTTA
 TGTCTGCTCTGAGCCTTAAAACACAGGTTGAAGAAGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_011961

Insert Size: 2214 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:

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: [BC021352](#), [AAH21352](#)

RefSeq Size: 2505 bp

RefSeq ORF: 2214 bp

Locus ID: 26432

UniProt ID: [Q9R0B9](#)

Cytogenetics: 9 48.4 cM

Gene Summary: Forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens. These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an internal in-frame coding exon compared to transcript variant 1, resulting in a shorter isoform (2, also known as LH2a) missing a 21 aa protein segment compared to isoform 1.