

## Product datasheet for **MR210368**

### Plod2 (NM\_011961) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plod2 (NM_011961) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plod2
Synonyms:	D530025C14Rik; LH2; Plod-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210368 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGGACCGCGGAGCGAGGCCGGGGCGGCTGATGCCCATGCTCGCCCTGCTCTCTGGGCGGCCGGCC  
 TGGCGTGGCGGAGGAGACGCCCGGCGCATCCCTGCAGATAAAATTATTAGTCATAACTGTCGCAACAAA  
 AGAAAATGATGGATTCCACAGATTTATGAATTCAGCCAAGTATTTCAATTACACTGTGAAGTTCTTGTT  
 CAAGGTCAAGAGTGGAGAGGCGGTGATGGAATGAACAGTATCGGAGGGGGCCAGAAGGTGAGATTACTGA  
 AAGAAGCTATGGAGCACTACGCCAGTCAGGAAGATCTGGTCATCTTGTTTACCGAGTGTTTTGATGTTGT  
 ATTTGCTGGTGGTCTGAAGAAGTTCTTAAAAAGTTCCAAAAGACAAATCATAAAATCGTCTTTCAGCG  
 GACGGGCTGCTGTGGCCAGATAAGCGGCTGGCAGACAAGTACCCTGTTGTGCACATTGGGAAACGCTACC  
 TGAATTCGGAGGCTTTATTGGCTATGCCCGTACATCAGCCGTCTGGTCCAGCAGTGAATCTGCAGGA  
 TAATGATGATGATCAGCTCTTTTACACGAAAGTTTACATCGACCCACTGAAGAGGGAAGCTTTTAAACATC  
 AACTGGATCACAAATGCAAAATTTTCCAGGCCTTGAATGGAGCTACAGATGAAGTTGTTTTAAAGTTTG  
 AAAATGGTAAAAGCAGAGTGAAGAATACATTTTATGAAACACTGCCAGTGGAATTAATGAAAATGGGCC  
 CACCAAGATTCTCCTGAATTACTTTGAAAATGTTTCCAAACTCATGGACACAGGAAAATGGCTGTGCG  
 CTTTGTGATGTTGACACAATTGACTTGTCTACAGTAGATGTCCCTCCCAAGGTTACACTGGGTGTTTTTA  
 TTGAACAACCAACCCCTTTCTACCTCGATTCTGAACTTACTGTTAACACTGGATTATCCCAAAGAAGC  
 CCTTCAACTCTTTATTCATAATAAAGAAGTTTATCATGAAAAGGACATCAAAGTGTGTTGATAAAGCT  
 AAGCATGACATCAGCTCTATAAAAAATAGTAGGACCAGAGGAGAACCTAAGTCAAGCAGAAGCCAGGAACA  
 TGGGCATGGATTCTGCCGTAGGATGAAAAGTGTGATTACTACTTTAGTGTGGATGCAGATGTTGTTTT  
 GACAAACCAAGAACTTTAAAAATTTTGATTGAACAAAACAGGAAAATCATTGCTCCTCTGTGACACGT  
 CATGAAAAGTTGTGTTCCAATTTTGGGAGCACTGAGTCTGATGGGTATTATGCTCGCTCTGAAGATT  
 ACGTGGATATTGTTCCAGGGAAACAGAGTAGGAATCTGGAATGTCCCATATATGGTAATGTGACTTAAT  
 TCAAGGAAAGACACTCCGATCTGAGATGAATGAAAGGAATTTTTGTCCGTGATAAGTTGGATCCCGAT  
 ATGGCTCTTGGCCGAATGCTAGAGATAGGGTGTGTTTATGTACATTTCTAACAGACATGAATTTGGAC  
 GGCTGATCAACTGCTAATTACAACACTTCCCATCTTAAACAATGACTTCTGGCAGATTTTTGAAAATCC  
 CGTGGATTGGAAGGAAAAATATAAATCGTGATTATTCAAAGATTTTCACTGAAAATATAGTCGAGCAG  
 CCTTGTCCAGATGCTTCTGGTTTCCCATATTTTCTGAACGAGCCTGTGATGAGTTGGTAGAAGAAATGG  
 AGCATTATGGCAAGTGGTCCGGCGGAAAGCATCACGATAGCCGCATATCGGGTGGTTATGAAAATGTCCC  
 GACTGATGATACTCATATGAAGCAGATCGGGCTGGAGAATGTTTGGCTTCATTTTCCAGAGATTCATT  
 GCTCCAGTCACACTGAAGGTCTTCGAGGCTATTATACAAAGGGATTTGCACTGCTGAATTTTGTAGTAA  
 AGTACTCACCTGAAAGACAGCGCTCGCTCCGTCACCACCGATGCCTCAACCTTTACCATCAACATTGC  
 TCTGAATAATGTAGGAGAGGATTTTTCAGGGAGGTGGATGCAAATTTCTGAGGTATAATTGCTCCATTGAG  
 TCCCCACGAAAAGGCTGGAGCTTCATGCATCCTGGGAGGCTCACACATTTGCACGAAGGACTTCTGTTA  
 AAAATGGAACACGATACATTGCAGTGTCAATTTATAGATCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

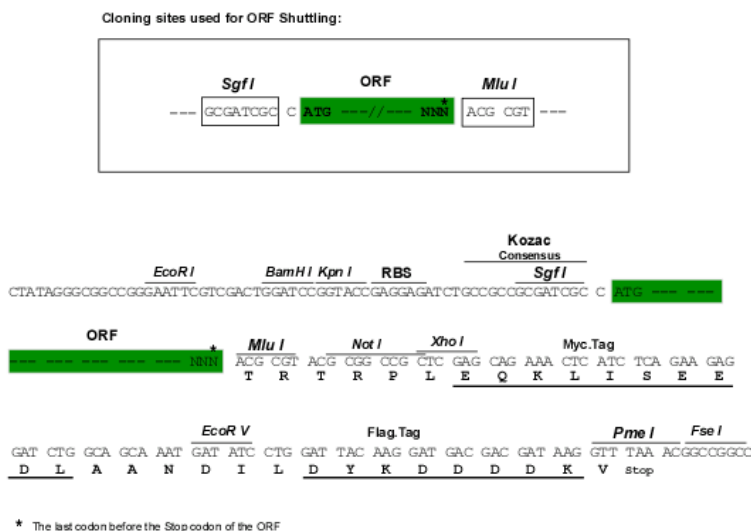
**Protein Sequence:** >MR210368 protein sequence  
Red=Cloning site Green=Tags(s)

MGDRGARPGRLMPLALLSWAAGLGVAEETPGRIPADKLLVITVATKENDGFHRFMNSAKYFNFTYKVLG  
 QGQEWGGDMNSIGGGQKVRLLKEAMEHYASQEDLVILFTECFDVVFAGGPEEVLKKFQKTNHKIVFAA  
 DGLLWPKRLADKYPVVHIGKRYLNSGGF IGYAPYISRLVQQWNLQDNDLQFLYTKVYIDPLKREAFNI  
 TLDHKCKIFQALNGATDEVVLKFENGKSRVKNTFYETLPVAINGNGPTKILLNYFGNYVPSWTQENGCA  
 LCDVDTIDLSTVDVPPKVTLGVFIEQPTPFLPRFLNLLLTLDPKEALQLFIHNKEVYHEKDIKVFVDKA  
 KHDISSIKIVGPEENLSQAEARNMGDMFCRQDEKCDYFVSDADVLTNPRTLKILIEQNRKIIAPLVTR  
 HGKLWSNFWGALSPDGYARSEDYVDIVQGNRVIWNPYMANVYLIQGTKLRSEMNERNYFVRDKLDPD  
 MALCRNARDMGVFMYISNRHEFGRLISTANYNTSHLNDFWQIFENPVDWKEKYINRDYSKIFTENIVEQ  
 PCPDVFWFPIFSERACDELVEEMEHYKWSGGKHHDSRISGGYENVPTDDTHMKQIGLENVWLHFIREFI  
 APVTLKVFAGYYTKGFALLNFVVKYSPERQSLRPHHDASTFTINIALNNVGEDFQGGGCKFLRYNCSIE  
 SPRKGWSFMHPGRLTHLHEGLPVKNGTRYIAVSFIDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011961

**ORF Size:** 2214 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_011961.1](#), [NM\\_011961.2](#), [NM\\_011961.3](#), [NP\\_036091.1](#)

**RefSeq Size:** 3656 bp

**RefSeq ORF:** 2214 bp

**Locus ID:** 26432

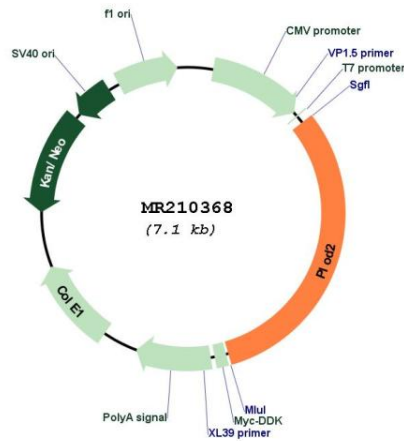
**UniProt ID:** [Q9R0B9](#)

**Cytogenetics:** 9 48.4 cM

**MW:** 84.4 kDa

**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]

### Product images:



Circular map for MR210368