

## Product datasheet for **RR215422**

### Plod1 (NM\_053827) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plod1 (NM_053827) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plod1
Synonyms:	Plod
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR215422 representing NM\_053827  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGTCCCTGTGCTCCTGGCCTCGCTGGCCTGGCTTCTTCTGCCCCAGGCGAAGGACGACGCCAAGC  
 TGGAGGACAACCTTTTGGTCCTCACCGTGGCCACAAAAGAGACAGAGGGCTTCCGCCGATTCAAGCGCTC  
 AGCCCAAGTTCTTCAACTACAAGATCCAGTCACTGGCCTGGGGGAGGACTGGAGCGCGGCCGGGGACCA  
 TCGGCAGCAGGTGGAGGACAGAAGGTTCCGGCTGCTGAAGAAGGCACTGAAAAAGTATGCAGACAAGGAAG  
 ACCTGGTTATTCTTTCGTTGACAGCTATGACGTGGTGTTCCTCGGGACCCCGGGAACCTTAAAGAA  
 GTTCCAGCAGGCCAAGAGCCGGTGGTCTTCTCAGCAGAGGAGCTTATCTACCCTGACCGGAGGCTGGAG  
 GCCAAGTATCCACAGTCCCGATGGCAAACGATTCTTGGGCTCTGGAGGCTTCATTGGTTATGCTCCCA  
 GCCTCAGCAAACCTGGTGGCCGAGTGGGAGGGCCAGGACAATGACAGCGACCAGCTCTTTTATACCAAGAT  
 CTTCTTGGACCCGAGAAGAGGGAGCAAATCAATATCAGCCTGGACCATCGCTGCCGAATCTTCCAGAAC  
 CTGGATGGAGCCTTGGATGAAGTCGACTCAAGTTTGAATGGGCCACGTGAGAGCCCGAATCTGGCCT  
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 TGTTCTTTTCGGCGGCTGCTGCACCTACGATACCCTCAGAAACAGATGCGGCTCTTCAATCACAACCAAGA  
 ACAGCACCACAAGCTTACAGTAGAGCAGTTCCTGGCAGACACGGCGGTGAGTACCAGTCTGTGAAGCTA  
 GTGGGTCCCGAGGTACGCATGGCCAACGCAGACGCCAGGAACATGGGCGCCGACCTGTGCCCGCAGGATC  
 AAACATGCACCTACTACTTCAGTGTGGATGCTGACGTGGCCCTGACCGAGCCGAACAGCTACGGCTCCT  
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 GCGGCACGTAGACCTGTTCCACTACAGCAAGCTGGATCCTGACATGAGTTTCTGCGCCAATGTCCGACAG  
 CAGGAGGTGTTTCATGTTCTGACCAACCGGCATACCTTTGGCCACCTGCTGTGCGTGGATAATTACCAGA  
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 ACAATAAGGACAACCGTATCCAGGGTGGCTATGAAAACGTGCCCACTATTGACATCCACATGAACCGAGT  
 CACCTTCGAGCGGGAGTGGCACAAGTTCCTGGTGGAGTACATCGCCCCCTGACAGAGAAGCTGTACCCC  
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 TGATGCCTCACCATGACGCCTCTACTTTACCATCAACATAGCCCTGAACAGGGTTGGGGAAGATTATGA  
 GGGTGGAGGTTGCCGATTTCTACGCTACAACCTGCTCCGTGAGAGCCCCAAGGAAGGGCTGGGCCCTCATG  
 CACCCCGGGCGGCTCACACACTACCACGAGGGGCTTCCCACTACCAAGGGTACCCGCTACATTGCCGTGT  
 CCTTCGTCGATCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

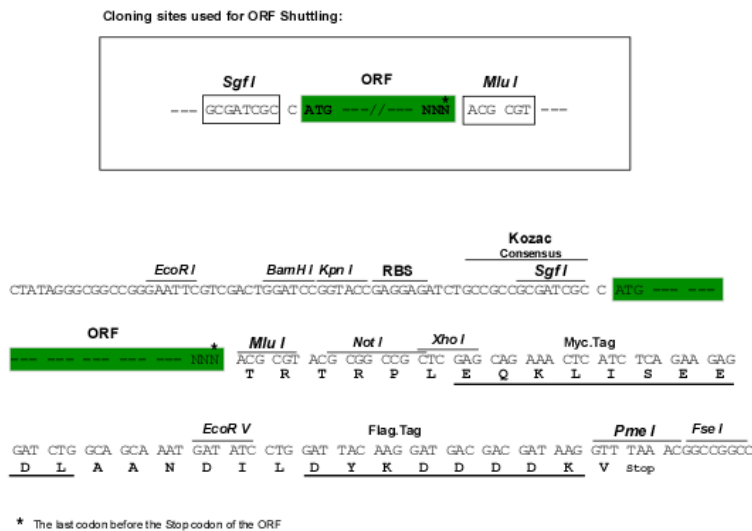
**Protein Sequence:** >RR215422 representing NM\_053827  
Red=Cloning site Green=Tags(s)

MRSLLLLASLAWLLLAQAQDDAKLEDNLLVLTVAETKETEGRFRFKRSAQFFNYKIQSLGLGEDWSAAGGP  
 SAAGGGQKVRLLKALKKYADKEDLVILFVDSYDVVFAAGPRELLKKFQQAASRVVFAEELIYPDRRLE  
 AKYPTVPDGKRFLLGSGGFIYAPSLSKLVAEWEGQDNDSDQLFYTKIFLDPEKREQINISLDHRCRIFQN  
 LDGALDEVVLKFEMGHVRARNLAYDTLPVVIHNGPQTKLQVNYLGNYPWFETGCTVCDEGLRSLKGL  
 IGDEALPTVLVGVFIEQPTPFLSLFFRLLHLRYPQKQMRLEIHNQEQHHLQVEQFLAEHGGEYSVKL  
 VGPEVRMANADARNMGADLCRQDQCTCTYYFSVDADVALTEPNSLRLLIEQKNVIAPLMTRHGRLLWSNFW  
 GAL SADGYARSEDYVDIVQRRVGVWVNPYISNIYLKGSALRAELRHVDLFHYSKLDPDMSCANVRQ  
 QEVFMLENRHTFGHLLSLDNYQTTHLHNDLWEVFSNPEDWKEKYIHENYTKALAGKLVETPCPDVYWFP  
 IFTEVACDELVEEMHYGQWSLGDNDNRIQGGYENVPTIDIHMNQITFEREWHKFLVEYIAPLTEKLYP  
 GYYTKAQFDLAFVVRYPDEQPSLMPHHDASTFTINIALNRVGEDYEGGGCRFLRYNCSVRAPRKGWALM  
 HPGRLTHYHEGLPTTKGTRYIAVSFVDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_053827

**ORF Size:** 2184 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\\_053827.2](#), [NP\\_446279.2](#)

**RefSeq Size:** 2912 bp

**RefSeq ORF:** 2187 bp

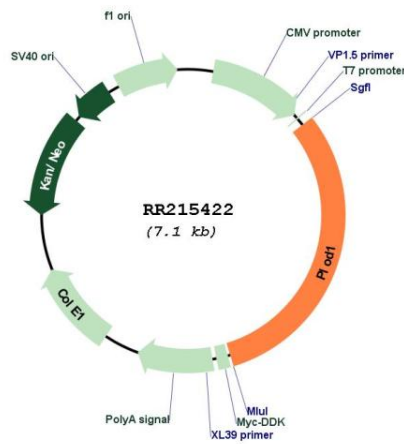
**Locus ID:** 116552

**Cytogenetics:** 5q36

**MW:** 83.6 kDa

**Gene Summary:** catalyzes the hydroxylation of lysine residues in procollagen to form hydroxylysine [RGD, Feb 2006]

**Product images:**



Circular map for RR215422