

Product datasheet for **RR213809**

Plod3 (NM_178101) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plod3 (NM_178101) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plod3
Synonyms:	MGC93055
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213809 representing NM_178101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCGTCAGTCCCAGAACCCGGCTTTTGTCTCTGCTCTGCTGCTGCTGCCGCCGCTGCCCCGG
 TAACTTCTGCCTCCGATCGACCCCGGGCGCCAATCCTGTCAACCCTGACAACTGCTGGTGATCACCGT
 GGCTACAGCAGAGACAGAGGGGTACCGCGTCTTCTGCAGTCTGCCGAGTTCTTTAACTACACTGTACGG
 ACCCTGGGACTGGGACAGGAGTGGCAGGGGGTGTGTCGCCGAACAGTCGGTGGAGGCCAGAAGGTCA
 GGTGGCTCAAGAAGGAAATGGAGAAATATGCGAGTCAGGAGGACATGATCATCATGTTTGTGGACAGCTA
 CGATGTGATTCTGGCGAGCAGCCCAACAGAGCTGCTGAAGAAGTTTGTTCAGAGTGGCAGTCATCTGCTG
 TTCTCCGCTGAGAGCTTCTGCTGGCCTGACTGGGGCTGGCAGAGCAGTACCCTGAGGTGGGCGTGGGGA
 AGCGCTTCTCAACTCTGGTGGATTCAATGGCTTCGCTCCACCATCCATCGGATTGTCCGCCAGTGAA
 GTACAAGGACGACGACGATGATCAGTTGTCTATACTCAACTCTACCTGGACCCAGGGCTCGGGAGAAA
 CTCAAACCTAGCCTGGACCATAAATCCCGGATCTTCCAGAACCTCAATGGAGCCTTAGATGAAGTGGTCT
 TAAAGTTCGACCAGAACCGTGTGCGCATCCGAAATGTGGCCTACGACACGCTTCTGTTGTGGTCCATGG
 CAACGGTCCCCTAAGCTCCAGCTTAACTACCTGGGGAATATGTCCCAATGGCTGGACTCCCCAGGGA
 GGCTGTGGATTCTGCAACTTGAACCGGAGGACACTCCCGGGGGGCGAGCCTCCCCCGGGTGTCTTCTGG
 CCGTGTGGTGGAGCAGCCACTCCCTTCTACCTCGGTTCTGCAGCGCCTACTGCTCTGGATTACCC
 GCCGGACAGGATCTCTTTTCTTCAACAACGAGGTGTACCACGAGCCTCACATTGCAGATGCCTGG
 CCACAGCTCCAGGACCATTCTCAGCTGTAAAGCTAGTGGGCGCAGAGGAGGCCCTGAGCTCAGGGGAGG
 CCAGGGACATGGCCATGGATAGCTGTCCGCAGAACCCCGAGTGTGAGTTCTACTTTAGCCTGGATGCCGA
 TGCTGTCTCACGAACCCGGAGACCTTGGGTATCTTGTGATTGAACAAAACAGGAAGGTAATAGCTCCCATG
 CTTTCTCGCCACGGCAAGCTCTGGTCCAACCTTCTGGGGGCCCTGAGCCCGATGAGTACTATGCCCGCT
 CCGAAGACTACGTGGAATTGGTGCAGCGGAAGCGAGTGGGCTTGTGGAATGTACCCTACATATCCCAGGC
 ATATGTGATCCGAGGAGAGACCCTGAGGACAGAGCTCCCCGAAAAGGAAGTATTCTCCAGCAGCGACACA
 GACCCAGATATGGCTTCTGCAGGAGTGTCCGGGACAAGGGCATCTTCTGCACCTCAGCAATCAGCAGC
 AGTTTGGCCGGCTGCTGTCTACTTCCCACTATGACACTGACCACTTACACCCGGACCTCTGGCAGATCTT
 TGACAACCCTGTGGACTGGAGAGAACAGTACATCCATGAGAATACAGCCGGGCCCTGGATGGGGAGGGG
 CTGGTAGAACAGCCATGCCAGATGTGTACTGGTTCCTGCTGACCGAGCAGATGTGTGATGAGCTGG
 TGGAGGAAATGGAACACTATGGCCAGTGGTCTGGAGGCCGGCATGAGGACTCCAGGTTGGCTGGAGGGTA
 TGAGAATGTTCCACCGTGGACATCCACATGAAGCAGGTGGGGTACGAGGACCAGTGGCTTCAGCTGCTG
 AGGACATATGTGGGGCCATGACGGAGCACCTGTTTCTGGTACCACACCAAGACACGGGCAGTGATGA
 ACTTTGTGGTCCGCTACCGGCCAGATGAGCAGCCCTCACTTCGGCCACACCATGACTCGTCCACCTTCA
 GCTCAACGTTGCCCTCAATCACAAGGTGTAGATTATGAGGGAGGTGGCTGCCGCTTCTGAGGTACGAC
 TGCAGAGTCTCATCCCCGAGGAAGGGCTGGGCTCTCTGCACCCTGGTCGCTCACACACTACCACGAGG
 GGCTGCCACCACCAGGGGAACTCGATACATCATGGTGTCTTCTGTTGACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213809 representing NM_178101
 Red=Cloning site Green=Tags(s)

MAASVPEPRLLLLLLLLLLPLPPVTSASDRPRGANPVNPKLLVITVATAETEGYRRFLQSAEFFNYTVR
 TLGLGQEWRRGDVARTVGGGQKVRWLKKEMEKYASQEDMIIMFVDSYDVILASSPTELLKKFVQSGSHLL
 FSAESFCWPDWGLAEQYPEVGVGKRFLNSGGF IGFAPTIHRIVRQWKYKDDDDQLFYTQLYLDPGLREK
 LKLSLDHKSRIFQNLNGALDEVVLKFDQNRVIRNVAYDTLPVVVHGNPPTKLQLNYLGNYPNGWTPQG
 GCGFCNLNRRTLPGGQPPRVLLAVFVEQPTPFLPRFLQRLLLLDYPPDRISLFLHNNEVYHEPHIADAW
 PQLQDHFSAVKLVGPEEALSSGEARDMAMDSQRNPECEFYFSLDADAVLTNPETLRILIEQNRKVIAPM
 LSRHGKLSNFWGALSPDEYYARSEDYVELVQRKRVGLWNVPYISQAYVIRGETLRTELPEKEVFSSTDT
 DPDMAFCRSVRDKGIFLHL SNQHEFGRLSTSHYDTHLHPDLWQIFDNPVDWREQYIHENYSRALDGE
 LVEQPCPDVYWFPLL TEQMCDELVEEMEHYGQWSGGRHEDSRLAGGYENVPTVDIHMKQVGYEDQWLQLL
 RTYVGPMTHELFPGYHTKTRAVMNFVVRYPDEQPSLRPHHDSSTFTLNVALNHKGVDYEGGGCRFLRYD
 CRVSSPRKGWALLHPGRLTHYHEGLPTTRGTRYIMVSFVDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178101

ORF Size: 2223 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_178101.3](#), [NP_835202.2](#)

RefSeq Size: 2775 bp

RefSeq ORF: 2226 bp

Locus ID: 288583

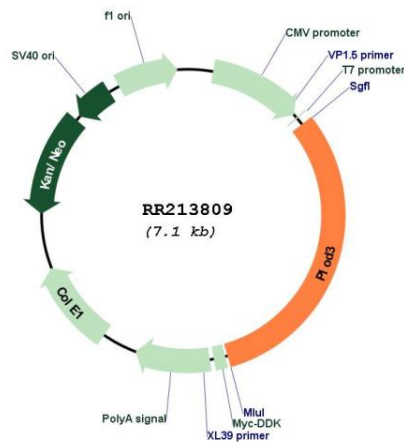
UniProt ID: [Q5U367](#)

Cytogenetics: 12q12

MW: 85.1 kDa

Gene Summary: catalyzes hydroxylation of helical lysine residues and glycosylation of hydroxylysines in collagen; mediates collagen biosynthesis [RGD, Feb 2006]

Product images:



Circular map for RR213809