

Product datasheet for **MC217115**

Cyp27b1 (NM_010009) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp27b1 (NM_010009) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp27b1
Synonyms:	Cp2b; Cyp1; Cyp27b; Cyp40; P450c1; Pddr; Vdd1; Vddr; Vddrl; Vdr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217115 representing NM_010009
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCCGATTCTCTCAGGTGCATGGCGTGCAGGACAGTATGGTCTGGCAGCTTTGGGACAC
 TTCGCACAGTTTACGTTGCCGACCCTACACTTGTGGAGCAGCTCCTGCGACAAGAAAGTCACTGTCCAGA
 GCGCTGTAGTTTCTCATCATGGGCAGAGCACCGTCGCGCCACCAGCGTCTTGGGATTGCTAACGGCG
 GATGGTGAAGAATGGCAGAGGCTCCGAAGTCTTCTGGCCCGCTCCTCCTCCGGCCACAAGCAGCCGCGG
 GCTATGCTGGAACCTGGACAACGTGGTCCGTGACCTTGTGCGACGACTAAGGCGCCAGCGGGGACGTGG
 CTCTGGGCTACCCGGCTAGTTCTGGACGTGGCAGGAGAGTTTTACAAATTTGGCCTAGAAAGTATAGGC
 GCGGTGCTGCTGGGATCGCGCTGGGCTGCCTAGAGGCTGAAGTCCCTCCTGACACAGAAACCTTCATAC
 ATGCAAGTGGGCTCAGTGTCTGTGTCTACACTCTTGACCATGGCGATGCCAACTGGTTGCACCACCTTAT
 ACCTGGACCTGGGCCCGCTCTGCCGAGACTGGGATCAGATGTTTGCCTTTGCCAGAGGCACGTGGAG
 CTGCGAGAAGGTGAAGCTGCGATGAGGAACCAGGAAAGCCTGAGGAGGATATGCCGTCTGGGCATCACT
 TAACCCACTTCTTTTTCGGGAAAAGGTGTCTGTCCAGTCCATAGTGGGGAATGTGACAGAGCTACTACT
 GGCTGGAGTGGACACGGTATCCAATACGCTCTCCTGGACACTCTATGAGCTTTCCCGGCACCCCGATGTC
 CAGACTGCACTCCACTCTGAGATCACAGCTGGGACCCGTGGCTCCTGTGCCACCCCCATGGCACTGCTC
 TGTCCCAGCTGCCCTGTTAAAGGCTGTGATCAAAGAAGTGTGAGATTGACCTGTGGTACCTGGGAA
 TCCCCTGTCCCAGACAGAGACATCCGTGTAGGAAACTATGTAATCCCCAAGATACGCTAGTCTCCCTA
 TGTCACTATGCCACTTCAAGGGACCCACACAGTTTCCAGACCCCACTTTTAAATCCAGCTCGCTGGC
 TGGGGGAGGGTCCGACCCCCACCCATTTGCATCTTCCCTTCGGCTTTGGCAAACGGAGCTGCATCGG
 GAGACGCTTGGCAGAGCTTGAAGTACAAATGGCTTTGTCCAGATCTTGACCCATTTTGAAGTGTACCT
 GAGCCAGGTGCTTCTCTATCAAGCCATGACCCGGACTGTCCTGGTCCCTGAGAGGAGCATCAATCTAC
 AGTTTGTAGATAGAT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2030_f01.zip

Restriction Sites: SgfI-MluI

ACCN: NM_010009

Insert Size: 1347 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<u>BC080697</u> , <u>AAH80697</u>
RefSeq Size:	2440 bp
RefSeq ORF:	1524 bp
Locus ID:	13115
UniProt ID:	<u>O35084</u>
Cytogenetics:	10 D3
Gene Summary:	Catalyzes the conversion of 25-hydroxyvitamin D3 (25(OH)D3) to 1-alpha,25-dihydroxyvitamin D3 (1alpha,25(OH)(2)D3), and of 24,25-dihydroxyvitamin D3 (24,25(OH)(2)D3) to 1-alpha,24,25-trihydroxyvitamin D3 (1alpha,24,25(OH)(3)D3). Is also active with 25-hydroxy-24-oxo-vitamin D3. Plays an important role in normal bone growth, calcium metabolism, and tissue differentiation.[UniProtKB/Swiss-Prot Function]