

Product datasheet for **MR207155**

Cyp27b1 (NM_010009) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp27b1 (NM_010009) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



[View online »](#)

ORF Nucleotide Sequence:

>MR207155 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCCGATTCTCTCAGGTGCATGGCGTGCAGGACAGTATGGTCTGGCAGCTTTGGGACAC
 TTCGCACAGTTTACGTTGCCGACCTACACTTGTGGAGCAGCTCCTGCGACAAGAAAGTCACTGTCCAGA
 GCGCTGTAGTTTCTCATCATGGGAGAGCACCCTCGCCGCCACCAGCGTCTTGGGATTGCTAACGGCG
 GATGGTGAAGAATGGCAGAGGCTCCGAAGTCTTCTGGCCCGCTCCTCCTCCGGCCACAAGCAGCCGCGG
 GCTATGCTGGAACCTGGACAACGTGGTCCGTGACCTTGTGCGACGACTAAGGCGCCAGCGGGGACGTGG
 CTCTGGGCTACCCGGCTAGTTCTGGACGTGGCAGGAGAGTTTTACAAATTTGGCCTAGAAAGTATAGGC
 GCGGTGCTGCTGGATCGCGCTGGGCTGCCTAGAGGCTGAAGTCCCTCCTGACACAGAAACCTTCATAC
 ATGCACTGGGCTCAGTGTCTGTGTCTACACTCTTGACCATGGCGATGCCCACTGGTTGCACCACCTTAT
 ACCTGGACCTGGGCCCGCTCTGCCGAGACTGGGATCAGATGTTTGCCTTTGCCAGAGGCACGTGGAG
 CTGCGAGAAGGTGAAGCTGCGATGAGGAACCAGGAAAGCCTGAGGAGGATATGCCGTCTGGGCATCACT
 TAACCCACTTCTTTTTCGGGAAAAGGTGTCTGTCCAGTCCATAGTGGGGAATGTGACAGAGCTACTACT
 GGCTGGAGTGGACACGGTATCCAATACGCTCTCCTGGACACTCTATGAGCTTTCCCGCACCCCGATGTC
 CAGACTGCACTCCACTCTGAGATCACAGCTGGGACCCGTGGCTCCTGTGCCACCCCCATGGCACTGCTC
 TGTCCCAGCTGCCCTGTAAAGGCTGTGATCAAAGAAGTGTGAGATTGACCTGTGGTACCTGGGAA
 TTCCCCTGTCCCAGACAGAGACATCCGTGTAGGAAACTATGTAATCCCCAAGATACGCTAGTCTCCCTA
 TGTCACTATGCCACTTCAAGGGACCCACACAGTTTCCAGACCCCACTTTTTAATCCAGCTCGCTGGC
 TGGGGGAGGGTCCGACCCCCACCCATTTGCATCTTCCCTTCGGCTTTGGCAAACGGAGCTCGCTCGG
 GAGACGCTTGGCAGAGCTTGAAGTACAAATGGCTTTGTCCAGATCTTGACCCATTTGAAGTGTACCT
 GAGCCAGGTGCTTCTCTATCAAGCCATGACCCGGACTGTCTGGTCCCTGAGAGGAGCATCAATCTAC
 AGTTTGTAGATAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207155 protein sequence
 Red=Cloning site Green=Tags(s)

MRRFSQVHGAARYGPVWSGSFGLRTRVYVADPTLVEQLLRQESHCPERCSFSSWAEHRRRHQRACGLLTA
 DGEEWQRLRSL LAPLLRPQAAAGYAGTLDNVVRDLVRRRLRQRGRGSLPGLVLDVAGEFYKFGLESIG
 AVLLGSRLGCLEAEVPPDETTFIHAVGSVSVSTLLTMAMPNWLHHLIPGPWARL CRDWDQMF AFAQRHVE
 LREGEAAMRNQKPEEDMPSGHHLTHFLFREKVSQSI VGNVTELLL AGVDTVSNTLSWTL YELSRHPDV
 QTALHSEITAGTRGSAHPHTALSQLPLLKAVIKEVLRLYPVVPGNSRVPDRDIRVGNVYIPQDTLVSL
 CHYATSRDPTQFPDPSFNPARWLGEPTPHPFASLPFGFGKRSCIGRR LAELELQMALSQLTHFEVLP
 EPGALPIKPMTRTVLVPERSINLQFVDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_010009

ORF 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](#)

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

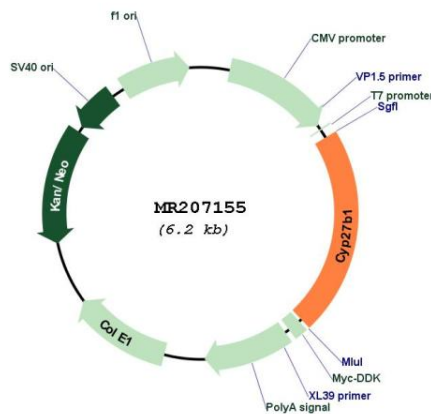
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_010009.1, NP_034139.1](#)
RefSeq Size: 2440 bp
RefSeq ORF: 1524 bp
Locus ID: 13115
UniProt ID: [O35084](#)
Cytogenetics: 10 D3
MW: 49.9 kDa

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]

Product images:



Circular map for MR207155