

Product datasheet for **MC217279**

Cyp24a1 (NM_009996) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp24a1 (NM_009996) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp24a1
Synonyms:	24-OH; 24-OHase; CP2; CP24; Cyp2; Cyp24
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217279 representing NM_009996
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTGCCCCATTGACAAAAGGCGCCCCCTGATCGCTTTCCTGCGCCGGCTGCGGGACCTCGGGCAAC
 CCCAAGGTCCGTGACATCCAAGGCGCACGTGAAGCGTGCGCCAAAAGAGGTGCCCTCTGCCCGTGAT
 GACCGACGGTGAGACTCGGAACGTCACCTCCTTACCTGGACCCACCAACTGGCCACTGCTGGGCAGCCTA
 CTGGAGATTTTTGGAAAGGTGGCCTGAAGAAACAGCACGACACTGGCAGAGTACCACAAGAAGTATG
 GCCAGATTTCCGGATGAAGCTGGGCTCCTTCGACTCGGTGCATCTGGGCTCGCCGAGCCTGCTGGAAGC
 TCTGTACCGCACAGAGAGCGGCATCCCCAGCGGCTAGAGATCAAACCCTGGAAAGCCTATCGGGACCAT
 CGCAACGAAGCCTACGGGCTGATGATCCTGGAAGGACAGGAGTGGCAGCGGGTCCGACGCGCCTTCCAAA
 AGAAACTCATGAAGCCCCTGGAAATCATGAAGCTGGACAAGAAAATCAATGAGGTCTTGCTGATTTTAT
 GGGGCAAATCGATGAGCTGCGTGTGAGAGAGGCCGCATCCAAGACTTGTACAGCGAGCTGAACAAATGG
 TCCTTTGAAAGCATCTGCCTTGTGTATATGAGAAGAGATTTCGGGCTCCTTCAAAAGGACACAGAGGAAG
 AAGCCCTGACCTTATTGCGGCCATCAAAAATGATGAGCACATTTGGGAAGATGATGGTGACCCCGT
 GGAGCTGCACAAGCGCCTCAACACCAAAGTGTGGCAAGCGCACACGCTGGCCTGGGACACCATTTTCAAA
 TCAGTCAAGCCCTGCATCGACCACCGCCTAGAGAGATAATCCAGCAGCCTGGTGCAGATTTCTTTGTG
 ATATTTATCAGCAAGATCATCTTTCCAAGAAAGAACTGTACGCTGCTGTCACGGAGCTCCAGCTGGCTGC
 AGTGGAGACGACCGCAAACAGCTTGATGTGGATTCTCTACAATCTATCCCGGAATCCCAAGTGCAACAG
 AGACTTCTCCGGAAATCCAGAGCGTGTGCCTGACAACCAGACGCCACGGGCGGAAGATGTGAGGAATA
 TGCCCTATTTAAAGCCCTGTCTAAAGGAGTCCATGAGGCTTACCCCAAGTGTGCCATTACAACATCCGAA
 CCTTGACAAGCCAACCGTTCTGGGTGAATACACGCTACCCAAAGGAACAGTCTTAACACTAAATACCCAA
 GTGCTGGGCTCTAGCGAAGACAATTTGAAGATGCTGACAAGTTTACGCCGAACGCTGGCTTGAAGG
 AGAAAAAGATCAACCCCTTCGCTCATCTCCATTTGGCGTCGGGAAGAGGATGTGCATCGGGCGCCGGCT
 GGCTGAGCTACAGCTCCACTTGGCTCTTTGCTGGATAATCCAAAAATATAACATTGTGGCTACAGACAGT
 GAACCTGTGGAGATGCTGCATCTGGCATCCTGGTACCTAGCCGGGAGCTGCCATTGCGTTCTGTCCAC
 GG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_009996
Insert Size: 1545 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>NM_009996.4</u> , <u>NP_034126.1</u>
RefSeq Size:	3311 bp
RefSeq ORF:	1545 bp
Locus ID:	13081
UniProt ID:	<u>Q64441</u>
Cytogenetics:	2 91.91 cM
Gene Summary:	The protein encoded by this gene localizes to the mitochondrion, where it degrades calcitriol to calcitetrol. This gene is upregulated by binding of calcitriol to the upstream regulatory region and to a downstream enhancer region, thereby allowing calcitriol to autoregulate its concentration in the cell. The encoded protein may also play a role in calcium homeostasis. [provided by RefSeq, Aug 2015]