

Product datasheet for **MC216786**

Cyp21a1 (NM_009995) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp21a1 (NM_009995) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp21a1
Synonyms:	21-OH; 21OH; 21OHA; 21OHB; Cyp21; Cyp21-ps1; Cyp21a2-ps; Cyp21a2ps; Cyp21B; CYP21OH-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216786 representing NM_009995
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGCTGCTACCTGGGCTGCTGCTGCTGTTGCTGCTGCTAGCTGGCACCCGCTGGCTGTGGGGCCAATGGA
 AGCTCCGGAAGCTGCACCTCCCGCTCTGGCCCCGGGTTTCTGCACTTCTACAGCCTAACCTTCCCAT
 CTACCTGCTTGGCCTCACTCAGAACTCGGGCCCATCTACAGGATCCGCTTGGGGATGCAAGATGTGGTG
 GTGCTAAATTCTAACAGAACCATTGAGGAGGCTTGATCCAAAAGTGGGTGGACTTTGCTGGCCGACCCC
 ATATGCTAAATGGAAAGATGGACTTGGACCTGTCCCTGGGGGATTACTCTCTCATGTGGAAGGCCACAA
 GAACTCTCTCGCTCAGCCCTGATGCTGGGCATGCGAGACTCCATGGAGCCTCTGATAGAGCAGTGACC
 CAGGAGTTCTGTGAGCGCATGCGAGCCAGGCTGGCACCCCGTGGCCATCCATAAGGAATTCTCCTTCC
 TCACTTGTAGTATCATCTCTGCCTCACTTTTGGAGACAAGGACAGCACGTTGGTACAGACCTTTCACGA
 CTGTGTCCAGGACTTGTGCAAGCCTGGAACCACTGGTCCATCCAAATCTTGACGATAATTCCCCTTCTC
 AGGTTCTCTCCCAACCCAGGCCCTCCAGAAGCTGAAGCAGATCCAAGAGAGTCGGGACCATATTGTCAAGC
 AGCAGCTGAAGCGGCACAAGGACAGCCTGGTTGCAAGCCAATGGAAGACATGATTGACTACATGCTCCA
 GGGAGTGGAGAAGCAAAGGGATGGCAAAGACGAAGAGCGGCTCCACGAGGGGCACGTGCACATGTCGGTG
 GTGGACCTGTTTCATCGGCGGCACCGAGACCAAGGCTACCAAGCTCTCTGGGCTGTGGCTTCTCTGCTTC
 ACCACCTGAGATCCAGAAGCGACTGCAGGAAGAGTTAGACCTCAAGCTGGGCCCAGGCTCCCAGCTCCT
 GTACAGGAACCGAATGCAGCTGCCTCTGCTCATGGCCACCATTGCCGAGGTGCTGCGTTTGGCGCCTGTG
 GTGCCCTTGGCCTTGGCCCATCGTCAACTAGGGCTAGCAGCATCTCCGGCTATGACATCCCTAAGGATA
 TGGTCATCATCCCCAACATCCAAGGCGCAACCTGGATGAGATGGTTTGGGAAGTGGCCAGCAAGTTCTG
 GCCAGATCGCTTCTTGGAACTGGGAAGAATCCAGAACACCATCCTTTGGCTGTGGGGCACGCGTGTGC
 CTGGGAGAGCCTCTGGCACGGCTGGAGCTCTTTGGTGTGGCTCGTCTGCTGCAGGCCTTCACTCTGC
 TGCCTCCACAGATGGAACCCTGCCTTCCCTGCAGCCCCAGCCTTATGCTGGCATCAATCTCCGATTCC
 TCCTTTCCAGGTGCGGCTGCAGCCAGAACTGGCGCCCCAAGACCAGGGTGAGCGTCCT**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_009995

Insert Size: 1464 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_009995.2</u> , <u>NP_034125.2</u>
RefSeq Size:	1939 bp
RefSeq ORF:	1464 bp
Locus ID:	13079
UniProt ID:	<u>P03940</u>
Cytogenetics:	17 18.36 cM
Gene Summary:	Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids.[UniProtKB/Swiss-Prot Function]