

Product datasheet for **MC216951**

Cyp19a1 (NM_007810) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp19a1 (NM_007810) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp19a1
Synonyms:	Ar; ArKO; Cyp19; Int-5; Int5; p450arom
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216951 representing NM_007810
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTTGAAATGCTGAACCCATGCAGTATAATGTCACCATCATGGTCCCGAAACTGTGACTGTCA
 GTGCCATGCCACTCTGCTGATCATGGCCTCCTTCTCCTGATTTGGAATTGTGAGAGCTCGTCTTCAAT
 ACCAGGTCCTGGCTACTGTCTGGGAATTGGGCCCTCATTCCCATGGCAGATTCTTGTGGATGGGGATT
 GGAAGTGCCTGCAACTACTACAATAAGATGTATGGAGAGTTTCATGAGAGTCTGGATCAGTGGAGAGGAGA
 CACTCATTATCAGCAAGTCTCAAGCATGTTCCATGTCATGAAGCACAGTCACTACATCTCCCGATTCCG
 CAGCAAGCGTGGCTGCAGTGCATCGGCATGCATGAGAACGGCATCATATTTAACAACAACCCGAGCCTT
 TGGAGAACAATTCGCCCTTCTTTATGAAAGCTCTGACGGGCCCTGGTCTGTTCGAATGGTGGAAAGTTT
 GTGTGGAGTCCATCAAGCAGCATTGGACCGGCTGGGCGAAGTACCACACCTCGGGCTACGTGGATGT
 GTTGACCCTCATGAGACACATCATGCTGGACACCTCTAACATGCTTCTCCTGGGGATCCCCCTGGACGAA
 AGTGCTATTGTGAAGAAAATCCAGGGTACTTTAACGCCTGGCAAGCTCTCCTCATCAAACCAAACATCT
 TCTTTAAGATTTCTGGCTCTACAGAAAGTATGAACGATCCGTC AAGGACTTGAAAGACGAGATAGCTGT
 TTTGGTGGAAAAGAAGAGACACAAAGTTTCCACAGCTGAGAAACTGGAAGACTGTATGGATTTTGCAACT
 GATTTGATTTTCGCTGAGAGACGTGGAGACCTGACGAAAGAGAACGTGAATCAGTGCATACTGGAGATGC
 TGATTGCAGCCCCGACACCATGTCGGTCACTCTGTAATTCATGTTACTTCTCGTCGCAGAGTATCCAGA
 GGTCGAAGCAGCAATCCTGAAGGAGATCCACACTGTTGTGGGTGACAGAGACATAAAGATCGAGGATATC
 CAAAATTTAAAAGTGGTGGAAAACCTTCAATGAAAGCATGCGGTACCAGCCTGTTGTGGACTTGGTCA
 TGCCGAGAGCTCTGGAGGATGACGTAATTGACGGCTACCCGGTTAAAAAGGGAACATAACATCATTCTGAA
 CATCGGAAGAATGCACAGGCTCGAGTACTTCCCTAAGCCCAATGAATTTACCCCTTGAAAACCTTGAGAAG
 AATGTTCCCTACAGTACTTTCAGCCTTTTGGCTTTGGGCCCGCGGCTGTGCTGGGAAGTACATCGCCA
 TGGTGATGATGAAAGTTGTCTTGTTTACTTTTGGAGCAGTCCAGGTGAAAGACTGCAAAAAAGGTG
 TATTGAAAACATACCGAAAAGAATGACCTGTCTTGCACCCAAATGAGGACAGGCACCTTGTGGAATA
 ATTTTCTCTCCAAGGAATTCAGACAAGTACCTCCAACAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_007810
Insert Size: 1512 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_007810.3</u> , <u>NP_031836.1</u>
RefSeq Size:	2373 bp
RefSeq ORF:	1512 bp
Locus ID:	13075
UniProt ID:	<u>P28649</u>
Cytogenetics:	9 29.49 cM
Gene Summary:	<p>Catalyzes the formation of aromatic C18 estrogens from C19 androgens.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3, and 4 encode the same protein. Expression of this variant has been found in gonads. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>