

Product datasheet for **MR219990**

Cyp39a1 (NM_018887) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp39a1 (NM_018887) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp39a1
Synonyms:	mCYP39A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219990 representing NM_018887
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCATTATGGAGTTATTCTACCAATAGCAATCGCCGTTCTGGGAAGCTGTGTTCTTTTCTTATTCT
 CTCGGTTGAAGAATTTGCTTGGACCCCGTGCATCCAAGGCTGGATTCCCTGGATTGGAGCTGGACTTGA
 GTTTGGGAAAGCCCTCTTGAATTTATAGAAAAAGCAAGAATCAAGTATGGACCGGTATTTACCATCTTT
 GCTATGGGAAACCGAATGACCTTTGTTAGTGAAGAAGAAGGAATCAATGTGCTTCTAAAACTGAACATG
 TAGATTTTGAATCAGCAGTACAAAGTCTGTCTATCACACAGCATGGATTCCAAAGAATGTCTTCTCTGC
 ACTGCATGAGCGACTGTATGCCTTGATGAAAGGGAAGATGGGAACCTTCAACACACATCACTTTACTGGG
 CCGCTAACTGAAGAACTTCATGAGCAACTGGAAGGTTTAGGCACTCATGGAACAATGGACCTGAATGACT
 TTGTAAGGTATCTACTTTATCCAGCCACACTCAATACCCTCTTAAAGAAAGGTTGTTTCTCACAGACAA
 GAGGACAATCAAGGAATCTACCAGCAGTTTAAACCTATGATGAGGGCTTTGAGTATGGCTCCCAGCTG
 CCTGAATGGCTTCTGAGAACTGGTCAAAATCCAAAAGATGGCTCCTGGCGCTGTTTGAGAAAAATATTG
 GCAACATAAAAAGCTCACGGATCTGCAGGTCACTTCTGGAACCTCTTGCAGGCCATATTGGAAGTGGTGA
 GACGGAACACGTCAATACAGTCCAAATATGGACTGGTCTGACTTTGGGCTGCTCTGGCCAATGCCTCT
 CCTATTGCATTCTGGACACTTGGATATATCCTGTCTCATCCCATATCCACAGGACTGTTTTAGAAAAGCA
 TATCTTCTGTGTTTGGCACTGCAGGTAAGACAAGATTAAGTGTCTGAAGATGACCTGAAGAAGCTTCT
 AATAATTAAGTGGTGCATTCTGGAATCTGTCCGCTTGAGAGCCCTGGTGTCTACTAGAAAGGTAGTG
 AAGCCAGTTAAATTTCTGAATCACACAGTCTCTCTGGTGTCTGCTGATGTTGTCTCCATTCTGGCTAC
 ACAGAAATCCAAAATATTTCTGAACCTGAGTCAATCAAACTGAACGCTGGAAGAGGCAAATTTAGA
 TAAGTACATTTTCTGGACTACTTCATGGCATTGGAGGCGGGAAGTCCAGTGTCTGGAAGGTGGTTT
 GCTCTCTTAGAGATTCAACTATGCATTATCTTAGTGTATAAGTACGAATGCAGTCTTCTGGACCCAT
 TACCAAAGCAGAGTTCTCGTCATTTGGTGGGTGTCCCCAGCCTGCAGGGAAATGCCGATTGAATATAA
 ACAAAGAGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219990 representing NM_018887
 Red=Cloning site Green=Tags(s)

MGIMELFSPIAIAVLGSCVLFVLSRLKNLLGPPCIQGWIPWIGAGLEFGKAPLEFIEKARIKYGPVFTIF
 AMGNRMFTVSEEEGINVLLKSEHVDFESAVQSPVYHTAWIPKNVFSALHERLYALMKGKMGTFNTHHFTG
 PLTEELHEQLEGLGTHGTMNDLVRYLLYPATLNTLFKKGLFLTDKRTIKEFYQQFKTYDEGFYGSQLE
 PEWLLRNWSKSRWLLALFEKNIGNIKAHGSAGHSGTLLQAILLEVETETRQYSPNYGLVVLWAALANAP
 PIAFWTLGYILSHPDIHRTVLESISSVFGTAGDKIKVSEDDLKLLIIKWCILESVRLRAPGVITRKVV
 KPVKILNHTVPSGDLMLSPFWLHRNPKYFPEPESEFKPERWKEANLDKYIFLDYFMAFGGKFCQPRGW
 ALLEIQLCIIILVLYKYECSLLDPLPKQSSRHLVGVQPAGKCRIEYKQRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

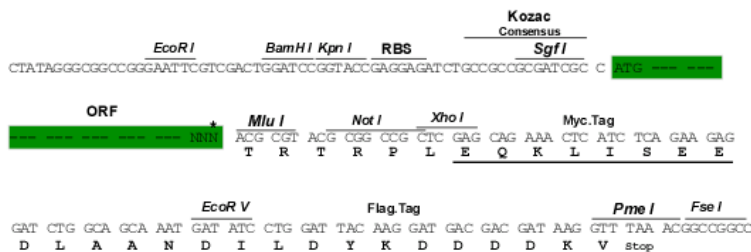
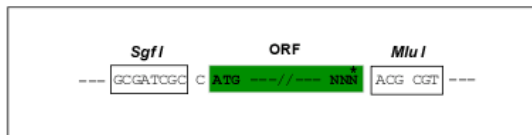
https://cdn.origene.com/chromatograms/mm9029_c11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_018887

ORF Size: 1410 bp

OTI Disclaimer: 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_018887.4](#), [NP_061375.1](#)
RefSeq Size: 3053 bp

RefSeq ORF: 1413 bp

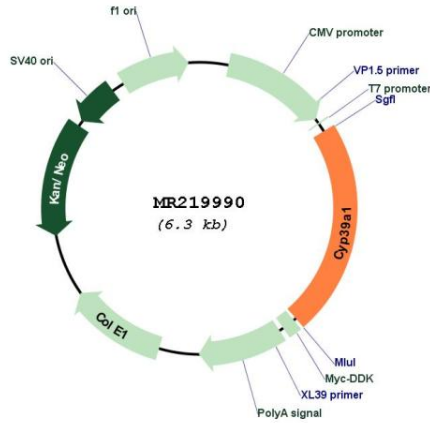
Locus ID: 56050

UniProt ID: [Q9JKJ9](#)
Cytogenetics: 17 B3

MW: 54 kDa

Gene Summary: Involved in the bile acid metabolism. Has a preference for 24-hydroxycholesterol, and converts it into a 7-alpha-hydroxylated product.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219990