

## Product datasheet for **MG219990**

### Cyp39a1 (NM\_018887) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp39a1 (NM_018887) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp39a1
Synonyms:	mCYP39A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG219990 representing NM\_018887  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCATTATGGAGTTATTCTACCAATAGCAATCGCCGTTCTGGGAAGCTGTGTTCTTTTCTATTCT  
 CTCGGTTGAAGAATTTGCTTGGACCCCGTGATCCAAGGCTGGATTCCCTGGATTGGAGCTGGACTTGA  
 GTTTGGGAAAGCCCTCTTGAATTTATAGAAAAAGCAAGAATCAAGTATGGACCGGTATTTACCATCTTT  
 GCTATGGGAAACCGAATGACCTTTGTTAGTGAAGAAGAAGGAATCAATGTGCTTCTAAAATCTGAACATG  
 TAGATTTTGAATCAGCAGTACAAAGTCTGTCTATCACACAGCATGGATTCCAAAGAATGTCTTCTCTGC  
 ACTGCATGAGCGACTGTATGCCTTGATGAAAGGGAAGATGGGAACCTTCAACACACATCACTTTACTGGG  
 CCGCTAACTGAAGAACTTCATGAGCAACTGGAAGGTTTAGGCACTCATGGAACAATGGACCTGAATGACT  
 TTGTAAGGTATCTACTTTATCCAGCCACACTCAATACCCTCTTAAAGAAAGGTTGTTTCTCACAGACAA  
 GAGGACAATCAAGGAATCTACCAGCAGTTTAAAACCTATGATGAGGGCTTTGAGTATGGCTCCCAGCTG  
 CCTGAATGGCTTCTGAGAACTGGTCAAAATCCAAAAGATGGCTCCTGGCGCTGTTTGAGAAAAATATTG  
 GCAACATAAAAAGCTCACGGATCTGCAGGTCACTTCTGGAACCTCTTGCAGGCCATATTGGAAGTGGTGG  
 GACGGAACACGTCAATACAGTCCAAATATGACTGGTCTGACTTTGGGCTGCTCTGGCCAATGCTCCT  
 CCTATTGCATTCTGGACACTTGGATATATCCTGTCTCATCCCATATCCACAGGACTGTTTTAGAAAAGCA  
 TATCTTCTGTGTTTGGCACTGCAGGTAAGACAAGATTAAGTGTCTGAAGATGACCTGAAGAAGCTTCT  
 AATAATTAAGTGGTGCATTCTGGAATCTGTCCGCTTGAGAGCCCTGGTGTCTACTAGAAAGGTAGTG  
 AAGCCAGTTAAAATCTGAATCACACAGTTCCTTCTGGTATCTGCTGATGTTGTCTCCATTCTGGCTAC  
 ACAGAAATCCAAAATATTTTCTGAACCTGAGTCATTCAAACCTGAACGCTGGAAGAGGCAAATTTAGA  
 TAAGTACATTTTCTGGACTACTTCATGGCATTGGAGGCGGGAAGTCCAGTGTCTGGAAGGTGGTTT  
 GCTCTCTTAGAGATTCAACTATGCATTATCTTAGTGTATAAGTACGAATGCAGTCTTCTGGACCCAT  
 TACCAAAGCAGAGTTCTCGTCATTTGGTGGGTGTCCCCAGCCTGCAGGGAAATGCCGATTGAATATAA  
 ACAAGAGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG219990 representing NM\_018887  
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MGIMELFSPIAIAVLGSCVLFVLSRLKNLLGPPCIQGWIPWIGAGLEFGKAPLEFIEKARIKYGPVFTIF  
 AMGNRMFTVSEEEGINVLLKSEHVDFESAVQSPVYHTAWIPKNVFSALHERLYALMKGKMGTFNTHHFTG  
 PLTEELHEQLEGLGTHGTMNDLVRYLLYPATLNTLFKKGLFLTDKRTIKEFYQQFKTYDEGFYGSQ  
 PEWLLRNWSKSKRWLLALFEKNIGNIKAHGSAGHSGTLLQAILEVVETETRQYSPNYGLVVLWAALANAP  
 PIAFWTLGYILSHPDIHRTVLESISVFGTAGDKIKVSEDDLKLLI IKWCILESVRLRAPGVITRKVV  
 KPVKILNHTVPSGDLMLSPFWLHRNPKYFPEPESFKPERWKEANLDKYIFLDYFMAFGGKFCQCPGRWF  
 ALLEIQLCIIILVLYKYECSLLDPLPKQSSRHLVGVPPAGKCRIEYKQRA

**TRTRPLE** - GFP Tag - V

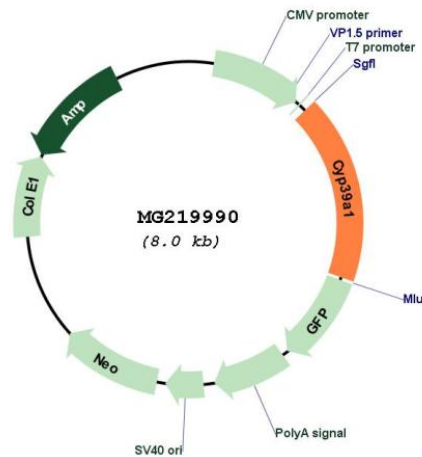
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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

**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]