

Product datasheet for **MR206356**

Cyp39a1 (BC021418) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cyp39a1 (BC021418) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cyp39a1
Synonyms: mCYP39A1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR206356 representing BC021418
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCATTATGGAGTTATTCTACCAATAGCAATCGCCGTTCTGGGAAGCTGTGTTCTTTTCTTATTCT
CTCGGTTGAAGAATTTGCTTGGACCCCGTGCATCCAAGGCTGGATTCCCTGGATTGGAGCTGGACTTGA
GTTTGGGAAAGCCCTCTTGAATTTATAGAAAAAGCAAGAATCAAGTATGGACCGGTATTTACCATCTTT
GCTATGGGAAACCGAATGACCTTTGTTAGTGAAGAAGAAGGAATCAATGTGCTTCTAAAACTGAACATG
TAGATTTTGAATCAGCAGTACAAAGTCCTGTCTATCACACAGCATGGATTCCAAAGAATGTCTTCTCTGC
ACTGCACGAGAGACTGTATGCCTTGATGAAAGGGAAGATGGGAACCTTCAACACACATCACTTTACTGGG
CCGCTAACTGAAGAATTCATGATCAACTGGAAGGTTTAGGCACTCATGGAACAATGGACCTGAATGACT
TTGTAAGGTATCTACTTTATCCAGCCCACTCAATACTCTCTTTAAGAAAGGTTGTTTCTCACAGACAA
GAGGACAATCAAGGAATCTACCAGCAGTTTAAACCTATGATGAGGGCTTTGAGTATGGCTCCCAGCTG
CCTGAATGGCTTCTGAGAACTGGTCAAAATCCAAAAGATGGCTCCTGGCGCTGTTTGGAAAAATTTG
GCAACATAAAAAGCTCACGGATCTGCAGTCATTCTGGAACCTCTTGCAGGCCATATTGGAAGTGGTGGA
GACGGAACACGTCGAATACAGTCCAAATATGGACTGGTCTGACTTTGGGCTGCTCTGGCCAATGCTCCT
CCTATTGCATTCTGGACACTGGATATATCCTGTCTCATCCCGATATCCACAGGACTGTTTTAGAAAGCA
TATCTTCTGTGTTTGGCACTGCAGGTAAGACAAGATTAAGTGTCTGAAGATGACCTGAAGAAGCTTCT
AATAATTAAGTGGTGCATTCTGGAATCTGTCCGCTTGAGAGCCCTGGTGTCTTACTAGAAAGGTAGTG
AAGCCAGTTAAAATCTGAATCACACAGTTCCTTCTGGTGTCTGCTGATGTTGTCTCCATTCTGGCTAC
ACAGAAATCCAAATATTTCTGAACCTGAGTCATTCAAACCTGTGTTTGTCTCTTAGAGATTCAAC
TATGCATTATCTAGTCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206356 representing BC021418
 Red=Cloning site Green=Tags(s)

MGIMELFSPIAIAVLGSCVLFVLSRLKNLLGPPCIQGWIPWIGAGLEFGKAPLEFIEKARIKYGPVFTIF
 AMGNRMTFVSEEEGINVLLKSEHVDFESAVQSPVYHTAWIPKNVFSALHERLYALMKGKMGTFNTHHFTG
 PLTEEFHDQLEGLGTHGTMNDLVFRYLLYPATLNTLFKKGLFLTDKRTIKEFYQQFKTYDEGFYGSQ
 PEWLLRNWSKSKRWLLALFEKNIGNIKAHGSAGHSGLLQAILEVVETETRQYSPNYGLVVLWAALANAP
 PIAFWTLGYILSHPDIHRTVLEISSVFGTAGKDKIKVSEDDLKLLI IKWCILESVRLRAPGVITRKVV
 KPVKILNHTVPSGDLMLSPFWLHRNPKYFPEPESEFKPVVCSLRDSTMHYLSAV

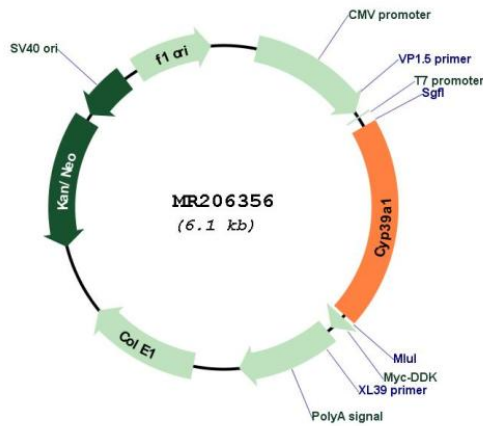
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC021418

ORF Size:	1212 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:	<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:	BC021418.1
RefSeq Size:	2359 bp
RefSeq ORF:	1214 bp
Locus ID:	56050
Cytogenetics:	17 B3
MW:	86.5 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]