

## Product datasheet for **MC217134**

### **Cyp3a16 (NM\_007820) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp3a16 (NM_007820) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp3a16
Synonyms:	MGC130513
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217134 representing NM\_007820  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACCTATTTTCAGCGCTCTCACTGGATACATTGGTCCTCCTGGCAATCATCCTGGTGCTCCTTACC  
 GATATGGGACCTGTACACATGGACTTTTTAAGAAACAGGGAATTCCTGGGCCAAACCTCTGCCATTTTT  
 AGGCACCTGTCCTGAATTATTACAAGGGTTTATGGAAATTTGACATGGAGTGCTATGAAAAGTATGGAAAA  
 ACGTGGGGTTGTTTGTGGTCAAATACCTCTCTTTGTCATCACGGACCCAGAGACGATTAAGAATGTGC  
 TAGTGAAGGAATGTTTTCTGTCTTACAAACCGGCAGGATTTTTCCAGTGGGGATAATGAGTAAATC  
 CATCTCTAGCTAAAGATGAGGAATGGAAGAGATATAGAGCTTTGCTGTCCCCACATTCACCAGTGGA  
 AATCTCAAGGAGATGTTTCTGTCAATTGAACAGTATGGAGACATTTTGGTAAAGTACTTGAGGCAAGAGG  
 CAGAGAAAGGCAAGCCTGTTGCTGTGAAAGATGTGTTAGGTGCCTACAGCATGGATGTGATCATCAGCAC  
 AACATTTGGAGTGAACATAGATTCCTCAACAACCCAGAGATCCTTTTGTGGAGATGCCAAGAAGGTT  
 TTAAGATTTGATTATTTTATCCTTTGTCTTGTCACTAGCACTCTTCCATTCCACACCAATATATG  
 AGATGTTAAATATCTGCATGTTCCCAAAGGATTCAATAGAATTTTTCAAAAAATTTGTTGGATAGAATGAC  
 AGAAAACCGCCTGGATTCTAAGCAGAAGCACCGCTGGACTTTATTTATCTGATGATGGAAGCTTATAAT  
 AAGTCAAAAGACAAGACTCTCATAAAGCCCTTTCTGAAATCGAGATCACAGCCAGTCAATTTTTTTA  
 TTTTTGCTGGGTATGAAACCACCAGCAGCATACTTTCTTCCCGTGTATTCCTTGGCCACTCACCTGA  
 TATCCAGAAGAACTGCAGGAGGAGATCGATGAGGCTCTGCCAATAAGGCACCTCCACCTATGATACC  
 GTGATGGCGATGGAATACCTGGATATGGTGTGAATGAAACCCCTCAGATTATATCCCATTAATAAGAC  
 TTCAGAGAGTCTGTA AAAAGGATGTTGAAATCAATGGTATTTATATCCGAAAGGGTCAACAGTGATAAT  
 TCCATCTTATGTTCTTCCCATGACCCACAGCACTGGCCAGAGCCTGAAGAATTC AACCTGAAAGGTTT  
 AGCAAGGAGAACAAGGGCAGATTGATCCTTATGTATATCTGCCCTTTGGGAATGGACCCAGGAAGTCA  
 TTGGCATGAGTTTGCTCTCATGAATATGAAACTTGTCTCATTAAAGTTCTGCAGAACTTCTCCTTCCA  
 GCCTTGTAAGGAAACACAGATACCTCTGAAATTAAGCAGAGAAGTACTTCTTCAACCAAGTAAACCCATT  
 GTTCTAAAGTTGTGCCACGGGATGCAGTCATAACTGGAGCGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_007820
- Insert Size:** 1515 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_007820.2](#), [NP\\_031846.2](#)

**RefSeq Size:** 1730 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 13114

**UniProt ID:** [Q64481](#)

**Cytogenetics:** 5 85.17 cM

**Gene Summary:** Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. [UniProtKB/Swiss-Prot Function]