

## Product datasheet for **MC217135**

### **Cyp4a14 (NM\_007822) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp4a14 (NM_007822) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp4a14
Synonyms:	A1314743
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217135 representing NM\_007822  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTTTTTTTTTATTTAGCCCTACAAGTACTTGGATGGTATCTCTGGTTCTTCCAATGGGCCCTTCT  
 TGCTCAGTCTATTTCTGGTGCTGTTCAAGGCAGTCCAATTCTACTTACGAAGGCAGTGGCTGCTCAAGAC  
 CCTCCAGCATTTCCCATGCATGCCTTCCCACTGGCTTTGGGGGCACCATCTGAAGGACAAGGAGCTCCAG  
 CAGATTCTTATATGGGTAGAGAAATCCCAAGTGCCTGCTTACAGTGTCTCTCGGGGAGCAATATACGAG  
 TCCTGCTTTATGACCCTGACTATGTGAAGTGTTCTGGGGAGATCAGATCCAAAGGCTTCTGGAATTTA  
 TCAATTCTTGTCCCTGGATTGGTTATGGTTTGTCTGTTGAATGGGAAGAAGTGGTTCCAGCATCGG  
 CGGATGTTGACTCCAGCCTTCCACTATGATATCCTCAAACCTATGTCAAATCATGGCGGACTCTGTCA  
 ATATAATGCTAGATAAATGGGAGAAGCTTGATGGCCAGGACCACCCTCTGGAGATCTTCCACTGTGTTTC  
 ATTGATGACACTGGACACTGTTATGAAGTGTGCTTTCAGCTACCAAGGCAGTGTTCAGTTGGATGAAAAT  
 TCCAAGTTGTATACTAAGGCTGTGAGGATCTAAACAACCTGACTTTCTTTCGCCTGCGGAATGCCTTTT  
 ATAAGTACAACATCATCTACAATATGTCCTCTGATGGACGTTTGTCCCACCATGCCTGCCAGATTGCTCA  
 CGAGCACACAGATGGAGTGATCAAGATGAGGAAGTCTCAGCTGCAGAATGAGGAAGAGCTGCAGAAGGCC  
 AGGAAGAAGAGACACTTGGATTTCTTGGACATCCTCTTGTGGCCAGAATGGAGGATAGGAACAGCTTGT  
 CTGATGAGGACCTGCGTGCAGAGGTGGACACATTCATGTTTGGGGTTCATGACACTACAGCCAGTGGAAAT  
 TTCTGGATTTTCTATGCTCTGGCCACCCACCTGAGCACCAACAGAGATGCAGAGAGGAGGTGCAGAGC  
 ATTCTGGGTGATGGAACCTCTGTACATGGGACCATCTGGCCAGATGCCCTACACCACCATGTGCATCA  
 AGGAGGCCCTGAGGCTCTATCCACCAGTAATATCTGTGAGTCGAGAGCTCAGCTCACCTGTCACCTCCC  
 AGATGGACGCTCCATACCCAAAGGTATCACAGCCACAATTTCCATTTATGGCCTACATCATAACCCACGT  
 TTCTGGCCAAACCCAAAGGTGTTTACCCTCTAGATTTGCACCAGATTCTTCTACCATAGCCATGCTT  
 ATCTGCCATTCTCAGGAGGATCAAGGAAGTGCATTGGGAAACAGTTTGTATGAACGAGCTGAAGGTGGC  
 TGTGGCCCTGACCCTGCTCCGCTTTGAATTGCTGCCAGATCCCACCAGGATCCCAGTCCCCATTGCAAGA  
 CTTGTGTTGAAGTCCAAGAAATGGGATCCACCTGTGTCTCAAGAAGCTAAG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_007822

**Insert Size:** 1524 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\\_007822.2](#), [NP\\_031848.1](#)

**RefSeq Size:** 2503 bp

**RefSeq ORF:** 1524 bp

**Locus ID:** 13119

**UniProt ID:** [O35728](#)

**Cytogenetics:** 4 53.04 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]