

Product datasheet for **MC216953**

Cyp7a1 (NM_007824) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp7a1 (NM_007824) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp7a1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216953 representing NM_007824
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGAGCATTCTTTGATCTGGGGATTGCTGTGGTAGTGAGCTGTTGCATATGGTTTATCATTGGAA
 TAAGGAGAAGGAAAGTAGGTGAACCTCCTTTGGACAACGGTTGATTCCATACCTGGGCTGTGCTCTGAA
 GTTCGGATCCAATCCTCTTGAATTCCTAAGAGCAAAGCAAAGGAAACATGGCCATGTTTTACCTGCAAA
 CTGATGGGAAATATGTCCACTTCATCACAACCTCCCTGTACACCACAAAGTCTTATGTCACGGAAAAAT
 ATTTTGACTGGAAAAATTTTACTACTACTTCTGCGAAGGCATTTGGACACAGAAGCATAGACCCAAAG
 TGATGGAAATACCACGGAAAACATAAACAAGACTTTTAAACAAAACCTCCAGGGAGATGCTCTGTGTTCA
 CTCTCTGAAGCCATGATGCAAAACCTCCAATCTGTCATGAGACCTCCGGGCCTTCTAAATCAAAGAGCG
 CTGTCTGGGTACGGAAGGGATGTATGCCTTCTGCTACCGAGTGTGTTGAAGCCGGATATCTAACGCT
 GTTTGGCAAAGATATTTCAAAGACAGACTCACAAGAGCATTTTAAACAAAACCTTGACAGCTTCAAA
 CAATTTGACCAAGTATTTCCGGCACTAGTGGCGGGCGTCCCTATTCACCTTGTTCAAGACCGCACATAAAG
 CCCGGAAAGGCTGGCTGAGAGCTTGAAGCACAAGAACCTGTACATGAGGGACCAGGTCTCTGAAGTGT
 CCGTCTACGCATGTTTCTCAACGATACACTCTCCACCTTTGATGACATGGAGAAGGCTAAGACGCACCTC
 GTGATCCTCTGGGCATCTCAAGCAAACACCATTCTGCAACCTTCTGGAGCTTATTTCAAATGATCAGGA
 GCCCTGAAGCAATGAAAGCAGCCTCTGAAGAAGTGAATGGAGCATTACAGAGTGTGGCCAAAGAGCTCAG
 CTCTGGAGGGAATGCCATTTACTTGGATCAAGAGCAACTAAACAACCTGCCAGTACTAGATAGCATCATC
 AAGGAGGCTCTGGCGCTCTCCAGTGCATCCTTGAATATCCGGACAGCTAAGGAGGACTTCACTCTACACC
 TTGAGGATGGTTTCTATAACATTCGAAAAGATGACATCATAGCTTTTACCCACAGTTAATGCACCTTGA
 TCCTGAAATCTACCCAGACCCTTTGACTTTTAAATACGACCGGTACCTTGATGAAAGTGGGAAAGCAAAG
 ACCACCTTCTATAGAAATGGAAACAAGTGAAGTATTTCTACATGCCCTTTGGATCAGGAGCTACAATAT
 GTCCTGGAAGACTATTTGCTGTCCAAGAAATCAAGCAATTTTGGATTCTGATGCTGTCTTACTTTGAACT
 GGAGCTTGTAGAGAGCCACACCAAGTGTCCCTCTAGATCAGTCCCGGGCAGGCTTGGGAAATTTGCCA
 CCACTAAATGATATTGAGTTTAAATATAAACTGAAACAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007824

Insert Size: 1512 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_007824.2](#), [NP_031850.2](#)

RefSeq Size: 4172 bp

RefSeq ORF: 1512 bp

Locus ID: 13122

UniProt ID: [Q64505](#)

Cytogenetics: 4 A1

Gene Summary: Catalyzes a rate-limiting step in cholesterol catabolism and bile acid biosynthesis by introducing a hydrophilic moiety at position 7 of cholesterol. Important for cholesterol homeostasis.[UniProtKB/Swiss-Prot Function]