

Product datasheet for **MC217116**

Cyp7b1 (NM_007825) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp7b1 (NM_007825) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp7b1
Synonyms:	AW261589; D3Ertd552e; hct-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217116 representing NM_007825

Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACGGGAGCCACGACCCTAGATGCCGCCTCGCCAGGGCCTCTCGCCCTCTAGGCCTTCTTTTGCCG
CCACCTTACTGCTCTCGGCCCTGTTCTCTCACCCGGCGCACCCAGGCGCCCTCGTGAACCACCCTTGAT
AAAAGGTTGGCTTCTTATCTTGGCATGGCCCTGAAATCTTTAAGGATCCGTTAACTTTCTTGAAAAT
CTTCAAAGGCAACATGGTGACACTTTCCTGTCTTCTGTGGGGAAGTATATAACATTTGTTCTGAACC
CTTTCCAGTACCAGTATGTAACGAAAAACCCAAAACAATTAAGCTTTCAGAAGTTCAGCAGCCGATTATC
AGCGAAAGCCTTCTGTAAAGAAGCTGTTACTGATGACGACCTTAATGAAGACGTTTACAGAGCCTAT
CTACTTCTACAAGCAAACCTTTGGATGCTTCTTGAAACTATGATCCAAGAAGTAAAAGAATTATTTG
AGTCCCAACTGCTAAAAATCACAGATTGGAACACAGAAAGAATATTTGCATTCTGTGGCTCACTGGTATT
TGAGATCACATTTGCGACTCTATATGAAAAAATCTTGCTGGTAAACAAGAAACAAATTATCAGTGAGCTA
AGGGATGATTTTTTAAATTTGATGACATGTTCCCATACTTAGTATCTGCATACCTATTAGCTTCTAA
GAAATGAAGAATCTATGCAGAAGAAAATATAAAATGCCTCACATCAGAAAAAGTAGCTCAGATGCAAGG
ACAGTCAAAAATGTTCCAGGAAAGGCAAGATCTGCTGAAAAGATACTATAGGCATGACGATCCTGAAATA
GGAGCACATCATCTTGGCTTTCTCTGGCCTCTAGCAAACACCATTCCAGCTATGTTCTGGGCAATGT
ATTATATCTTTCGGCATCCTGAAGCTATGGAAGCCCTGCGTGACGAAATTGACAGTTTCTGCAGTCAAC
AGGTCAAAGAAAGGACCTGGAATTTAGTCCACTTACCAGAGAACAATTGGACAGCTTGGTCTGCCTG
GAAAGCACTATTCTTGAGGTTCTGAGGCTGTGCTCATACTCCAGCATCATCCGAGAAGTGCAGGAGGATA
TGAATCTCAGCTTAGAGAGTAAGAGTTTCTCTGCGGAAAGGAGATTTTGTAGCCCTTTTCTCCACT
CATACACAATGACCCGGAATCTTCGATGCTCCAAGGAATTTAGGTTGATCGCTTCATAGAAGATGGT
AAGAAGAAAAGCACGTTTTTCAAAGGAGGGAAGAGGCTGAAGACTTACGTTATGCCTTTTGGACTCGGAA
CAAGCAATGTCCAGGGAGATATTTGCAAGTGAACGAAATGAAGTACTGCTGATTATGCTTTTAACTTA
TTTTGATTTAGAAATTATCGACAGGAAGCCTATAGGGCTAAATCACAGTCGGATGTTTTTAGGATTTCAG
CACCCCGATTCTGCCGTCTCTTTAGGTACAAAGCAAATCTTGGAGAAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_007825

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: [BC038810](#), [AAH38810](#)

RefSeq Size: 1814 bp

RefSeq ORF: 1524 bp

Locus ID: 13123

UniProt ID: [Q60991](#)

Cytogenetics: 3 4.98 cM

Gene Summary: Oxysterol 7alpha-hydroxylase that mediates formation of 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC) from 25-hydroxycholesterol (PubMed:9295351). Plays a key role in cell positioning and movement in lymphoid tissues: 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC) acts as a ligand for the G protein-coupled receptor GPR183/EBI2, a chemotactic receptor for a number of lymphoid cells (PubMed:22999953).[UniProtKB/Swiss-Prot Function]