

## Product datasheet for **MC204590**

### Cyp51 (NM\_020010) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp51 (NM_020010) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp51
Synonyms:	AI426508; Cyp51 a1; CYPLI; Ldm; P450-14DM; P450LI
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC031813  
 TCAGGCCGGGGCCGCTCCCGACTTCTATCTGCCGGCTTCTCCTGCTCCATCTTTTCCGAGAAGCGGTGT  
 GCGACCTCGGCCCCAGCCTACCGGGCGGATCGAAGCGACGGTCGGGATGGTACTTCTGGGCTTGTGCA  
 GTCAGGCGGCTGGGTGCTCGGACAGGCGATGGAGCAGGTGACAGGAGGCAACTTGCTTTCCACGCTGCTC  
 ATCGCCTGCGCCTTCACTCTCAGCCTCGTCTACCTGTTCCGTCTCGCCGTGGGCCACATGGTCCAGCTGC  
 CCGCTGGAGCGAAAAGTCCACCACATATTTACTCTCCAATTCCATTCTTGCCCATGCAATAGCATTG  
 GAAAAGTCCAATTGAGTTTCTGGAAAATGCATATGAGAAGTATGGACCTGTGTTTAGCTTTACCATGGT  
 GGCAAGACCTTCACTTACCTTCTGGGGAGTGATGCAGCTGCGCTCTTCAATAGTAAAAACGAAGACC  
 TGAATGCAGAAGAAGTCTACGGTCGGCTGACAACACCTGTGTTTGGGAAGGGAGTTGCATATGATGTGCC  
 AAATGCAATTTTCTTGGAACAGAAGAAAATCATAAAAAGTGGCCTTAACATAGCCCACTTTAAGCAGTAT  
 GTTCTATCATTGAAAAAGAAGCAAAGGAATACTTTCAAAGTTGGGGAGAAAAGCGGAGAAAAGAAATGTGT  
 TTGAAGCACTGTCTGAGCTCATAATTTTACAGCTAGCCATTGTTTACATGGAAAGGAAATTAGAAGTCA  
 ACTCAACGAGAAGGTGGCTCAGCTGTACGCAGACCTGGATGGAGGTTTTACCCACGCTGCCTGGCTATTG  
 CCAGCTTGGCTGCCTCTGCAAGTTTACGGCGCAGGGATAGAGCCATCGAGAGATCAAGAAATTTTTCT  
 ATAAGGCCATCCAGAAGCGCAGGCTGTCAAAGAACCAGCTGAGGACATTCTTCAAACCTTACTAGATTC  
 TACATACAAGGACGGGCGTCTCTAACAGATGAGGAGATATCAGGGATGCTCATCGGACTGCTGCTGGCT  
 GGACAGCACACATCCTCCACCACAGTGCCTGGATGGGCTTCTTTCTGGCCAAAAGATAAACCACTTCAAG  
 AAAATGCTACTTAGAACAGAAAGCAGTGTGTGGCGAGGATCTGCCTCCTTAACTTACGACCAGTTGAA  
 GGATCTGAATTTACTTGATAGATGCATAAAAGAAACACTAAGACTGAGGCCTCCAATAATGACCATGATG  
 AGAATGGCCAAGACCCCTCAGACGGTGGCAGGGTACACCATTCTCCAGGACATCAGGTGTGTGTCTCTC  
 TACTGTCAATCAAAGACTGAAAGACTCCTGGGCAGAGCGCTTGGACTTAACTCTGACCCTACTTACA  
 GGATAACCCAGCATCAGGAGAGAAGTTGCTATGTGCCATTTGGAGCTGGGCGTCATCGTTGTGTTGGA  
 GAAAATTTTGCCTATGTTCAAATTAAGACAATTTGGTGCACTATGCTTCGTTTATATGAATTTGACCTCA  
 TCAATGGATATTTTCCCACTGTGAATTATACAACAATGATCCACACCCCGAAAACCCAGTAAATCCGTTA  
 CAAACGACGATCAAATGAGAAGAGGAACAAGAAGCCAGTGTGGAGAGAGACCGCAAGCCGACGCTGGC  
 AAAGAATGAAGCCTCTGAGAAGCTCTCGTGTACTGGGTTGAAGAGTGTGGTTCTGAGAGCCAGTTTA  
 TGATTTTAAATGTTTTATTAACCTCGGTGATTTTTGTGAGCCGAATGGCATTGAAACAGTTTATAGTAGT  
 TTTGATAGGATTTAGGGAAGCCAAGTTTATGTTAGAAATCATTGGGGGGTGTGCTTGGAAATTAAGA  
 AGATATAGAATGCAGCATCCAGGTAATTAACCTCACACATTGCCACAGGGAGATTTGGAAGTGTGTTG  
 AAGTTTCAAAGCCTTGTCAAATGCTACAAAGGTAATGGGGTCTGTAGTTGGGCCACTTCTGTGCGTAAA  
 GATATGAAAGGATAAAGGTTAAGTTTACTGCGAAGCTTGAGGTGGAAGTAAACGCTACTTAGATGGTGTG  
 GTGTGCTCTTGAATGTTAACTGGAGCACCGCTCCTGGAAGATGGCAGCGATCTTGAACCTTGCCTTGA  
 TAACCTTAATTCCTAAAAGTAATAAAAATCTAAAGAGTGCTTATGTATGTTACTGGTCCCAATGGTCACA  
 GTTTTGTGAAAAATCCAAAATCAAATCCTTGTAAAGACTTTTTTATTTTAAATTTGGCTTAAGGTTTTTGT  
 TGTGTTGGGAAGTTTAAATTTACCAGGCTTTTAAAAGTGTCTGATTTTGTAGATTAGTGAGTTCTGGCCT  
 TGAGACTGGGGAATGGGAGATGGTATCATTGCCGATTTCTGTGCTCAGGAGACAACCTAACAGATTGTA  
 ACCACGGACCAACTCTGTGACATGCCCTTAATCTGTGTTAGGAGTAAGAATAGCTCTGTTGCTGGAGTG  
 GTGCTGCACACCTGTAATGCTGTTATTCAGGACCTGCGGCAGGATTGAGAATTTGAGGCCAACCTAGGCT  
 ACGGAGCAAGACTAACACACTCCCCAAAATAAACCTCTTTTCTCTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_020010

**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:** [BC031813](#), [AAH31813](#)

**RefSeq Size:** 2653 bp

**RefSeq ORF:** 1512 bp

**Locus ID:** 13121

**UniProt ID:** [Q8K0C4](#)

**Cytogenetics:** 5 2.3 cM

**Gene Summary:** Catalyzes C14-demethylation of lanosterol; it transforms lanosterol into 4,4'-dimethyl cholesta-8,14,24-triene-3-beta-ol.[UniProtKB/Swiss-Prot Function]