

## Product datasheet for MC207712

### Cyb5r1 (NM\_028057) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyb5r1 (NM\_028057) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cyb5r1  
**Synonyms:** 1500005G05Rik; B5R.1; C80155; Nqo3a2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207712 representing NM\_028057  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGATCCAGCCGAGCCGGTCTTGCTAGCCTCTCTGGGGTGGGGCTGCTTACTCTGCTCGGCCTGG  
 CTCTGGGTACCTACTTGGTTCGAAGATCCCGCCGCGCAGGTTACTCTCCAGGACCCGGATGAGAAGTA  
 CCTGCTGCGATTGCTAGACAAGACGACAGTGAGCCACAACACCAGGAGTTCCGCTTTGCCCTTGCCACC  
 GCCACCACATTCTGGGGCTGCCTGTGGGTAAGCACGTCTACCTCTGCCCCGAATTGATGGCAGTCTGG  
 TCATCAGGCCTTACACCCTGTACCAGTGATGAAGACCAAGGCTATGTAGATCTTGTATCAAGGTTTA  
 TCTGAAAGGTGTGCACCCAAATTTCTGAAGGAGGGAAGATGTCTCAATACCTGGATAGCCTGAAGATT  
 GGGGATATGGTGGAGTTCGGGGGCCGAGCGGGTGTCTCAGTTATGCTGGGAAAGGGAATTTAATATTC  
 AGCCCAACAAAAATCTCCACCTGAAGTGCAGTGCGGAAGAAATGGGAATGATTGCTGGTGGGACAGG  
 AATCACCCCAATGCTGCAGCTGATCCGGGCCATCTTGAAGTCCCTGAAGATCCAACCCAGTGTCTTCTG  
 CTTTTTGCCAACCAGACTGAAAGGGATAAATCCTGCGGGAGGACCTAGAGGAACCTCAGGCCAGTATC  
 CTAATCGCTTTAAGCTCTGGTTCCTCTGGACTCTCCTCCAGAAGACTGGACCTACAGCAAGGGCTTGT  
 TACGGCTGACATGATCCAGGAGCACCTGCCTGCCCCAGCAGAGGATGTGCTGCTGCTGTCTGTGGACCA  
 CCACCCATGTTGCAGCTGGCCTGCCACCCTAAGTGGATAAGCTGGGCTATTACAAAAGATGCGATTCA  
 CCTACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_028057  
**Insert Size:** 918 bp



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|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_028057.2</a> , <a href="#">NP_082333.1</a>   |
| <b>RefSeq Size:</b>           | 1626 bp   |
| <b>RefSeq ORF:</b>            | 918 bp  |
| <b>Locus ID:</b>              | 72017   |
| <b>UniProt ID:</b>            | <a href="#">Q9DB73</a>  |
| <b>Cytogenetics:</b>          | 1 E4  |
| <b>Gene Summary:</b>          | NADH-cytochrome b5 reductases are involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. [UniProtKB/Swiss-Prot Function]  |