

## Product datasheet for MC214476

### Cyb5r2 (NM\_177216) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyb5r2 (NM\_177216) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cyb5r2  
**Synonyms:** b5R.2; D630003K02Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC214476 representing NM\_177216  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGTGTCAAGAAGAAAGATCTTATCACCTTACAGGACCCTGAAGCCAAGTACCCGCTGCCCTTGATTG  
 AGAAGGAGCAAATCAGTCACAACACCAGAAGGTTCCGCTTTGGGCTGCCCTCACCAGACCATGTCCTGGG  
 GCTTCCTGTCGGTAACTATGTCCATCTCTTGGCACAAATTAACAATGAATTGGTGATCAGGGCTTACACA  
 CCTGTCTCCAGTGACGATGATCAAGGCTTTGTGGACTTAATTATAAAGATCTACTTCAAAAATGTGCACC  
 CCAAGTATCCTGAAGGAGGAAAGATGACTCAGTACTTGGAGAACATGAAAATTGGGGATACCATCCTTTT  
 TCGGGGGCCAACAGGGCGCCTGTTCTACAATGAGCCAGGAACCCCTTTTAAATCAAAGCAAACAAAACAAGT  
 GAGCCTGAAAAAAGCTGGTTCACCACCTGGGGATGATTGCTGGAGGCACAGGCATTACGCCCATGCTAC  
 AGCTGATTCGCCACATCACCAAGGACACCAGCGATGAGACCAGGATGTCCTCCTCTTTGCTAACAGAC  
 AGAAGAGGATATCTTGCTGAGAAAGGAGCTAGAAGAAGTCGCCACGACTCATCAAAACAGTTCAACCTG  
 TGGTATACCCTGGACAGGCCTCCAGTGACTGGAAGTACAGCTCAGGCTTTGTTAGCGCTGACATGATCA  
 AGGAGCACCTCCCTCCTCTGGGAGGACACGCTCATCCTGGTGTGTGGCCACCACCTCTGATCCAGGC  
 GGCAGCTCACCCAGCCTGGAGCAGCTCAGCTATACCAAGGACATGATTTTTATCTACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_177216  
**Insert Size:** 831 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_177216.4</a> , <a href="#">NP_796190.1</a>
<b>RefSeq Size:</b>	2724 bp
<b>RefSeq ORF:</b>	831 bp
<b>Locus ID:</b>	320635
<b>UniProt ID:</b>	<a href="#">Q3KNK3</a>
<b>Cytogenetics:</b>	7 E3
<b>Gene Summary:</b>	<p>NADH-cytochrome b5 reductases are involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. Responsible for NADH-dependent lucigenin chemiluminescence in spermatozoa by reducing both lucigenin and 2-[4-iodophenyl]-3-[4-nitrophenyl]-5-[2,4-disulfophenyl]-2H tetrazolium monosodium salt (WST-1) (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>