

## Product datasheet for RN215562

### Cyb5r2 (NM\_001014244) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyb5r2 (NM\_001014244) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cyb5r2  
**Synonyms:** RGD1308421  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN215562 representing NM\_001014244  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCGTCAAGAAGAAAGATCTTATCACTTTACAGGACCCTGAAGCCAAGTACCCGCTGCCCTTGATTG  
 AGAAAGAGCAAATCAACCACAACACCAGAAGGTTCCGATTTGGACTGCCCTCACCAGACCATGTCCTAGG  
 GCTTCCTGTAGGTAAGTATGTCCATCTCTTGGCACAATAACAATGAATTGGTGATCAGGGCTTACAGC  
 CCTGTCTCCAGTGACGATGATCAAGGATTTGTGGACTTAATTATAAAGATCTACTTCAAAAATGTGACC  
 CTAAGTATCCTGAAGGAGGAAAGATGACTCAGTACTTGGAGAATATGAAAATTGGGGACACCATTCTTTT  
 TCGGGGGCCAACGGGGCCCTGTTCTATAATGAGCCAGGGACCCTTTAATCAAAACAGACAAAACGAGT  
 GAGCCTGAAAAAAGCTGGTTTACACCTGGGGATGATTGCTGGAGGCACAGGCATTACGCCCATGCTAC  
 AGCTAATTCGCCACATCACCAAGGACACCAGCGATGGGACCAGGATGTCCTCCTCTTTGCCAACAGAC  
 AGAAGAGGATATCTTGTGAGAAAGGAGCTAGAAGAAGTGCCACAACGCATCAGAACCAGTTGAGCCTG  
 TGGTATACCCTGGACAGGCCCCCAAGTGGTGGGAGTACAGCTCAGGCTCATTACTGCAGATGATCA  
 AGGAGCACCTCCCTCCTCTGGGAGGCCACACTCATCCTGGTATGTGGCCACCACCTCTGATCCAGGA  
 GGCAGCTACCCAGCCTGGAGCAGCTTGGCTACACCAAGGACATGATTTTTACCTACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001014244  
**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_001014244.1</a> , <a href="#">NP_001014266.1</a>
<b>RefSeq Size:</b>	1349 bp
<b>RefSeq ORF:</b>	831 bp
<b>Locus ID:</b>	365345
<b>UniProt ID:</b>	<a href="#">Q6AY12</a>
<b>Cytogenetics:</b>	1q33
<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. 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]