

## Product datasheet for **SC114351**

### **CYB5R4 (NM\_016230) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CYB5R4 (NM_016230) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYB5R4
Synonyms:	cb5/cb5R; dj676j13.1; NCB5OR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC114351 sequence for NM\_016230 edited (data generated by NextGen Sequencing)

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ATGCTGAACGTCCCTTCCCAGTCTTTCCCGGCCCCAGGTGCGCAGCAGCGTGTGCGCTCC
GGGGGGCGTAGCAAGGTACCTTTAAAACAGGGCAGAAGCCTTATGGATTGGATTCGACTG
ACCAAAAGTGGAAAGGATCTAACGGGATTAAGAGCAGGTTAATTGAAGTAACTGAAGAA
GAACTTAAGAAACACAACAAAAAAGATGATTGTTGGATATGCATAAGAGGTTTCGTTTAT
AATGTCAGCCCTTATATGGAGTATCATCCTGGTGGAGAAGATGAACTAATGAGAGCAGCA
GGATCAGATGGTACTGAACTTTTTGATCAGGTTTCATCGTTGGGCAATTATGAATCCATG
CTGAAAGAATGCCTGGTTGGCAGAATGGCCATTAACCTGCTGTTCTGAAAGACTATCGT
GAGGAGGAAAAGAAAGTCTTAAATGGCATGCTTCCCAAGAGCCAAGTGACAGATACACTT
GCCAAAGAAGGTCTAGTTATCCAAGCTATGATTGGTTCCAAACAGACTCTTTAGTCACC
ATTGCCATATATACTAAACAGAAGGATATCAATTTAGACTCAATAATAGTTGATCATCAG
AATGATTCCTTTAGAGCAGAAACAATTATTAAGGATTGTTTATATCTTATACATATTGGG
CTAAGCCATGAGGTTTCAGGAAGATTTTTCTGTGCGGGTGTGGAGAGTGTGGGAAAAATA
GAGATTGTTCTACAAAAAAGAGAATACTTCTTGGGACTTTCTTGGCCATCCCCTGAAG
AATCATAATTCACCTTATCCAAAGGAAAGATACAGGTTTGTACTACAGAAAGTGCCAGTTA
ATTTCCAAGGAAGATGTTACTCATGATACGAGGCTTTTCTGTTTGTGCTGCCACCAAGC
ACTCATCTTCAAGTGCCATTGGGCAACATGTTTACCTCAAGCTACCTATTACAGGTACA
GAAATAGTAAAGCCATATACACCTGTATCTGGTTCCTTACTCTCAGAGTTCAAGGAACCA
GTTCTTCCCAACAATAAATACATCTACTTTTTGATAAAAAATCTATCCCCTGGACTCTTC
ACACCAGAGCTTGATCGTCTTCAGATTGGAGATTTTGTCTGTGAAGCAGTCTGAGGGC
AATTTTAAAAATACCAAGTTCCAAGAATTAGAAGATCTCTTTTGTGGCAGCTGGAACA
GGCTTACACCAATGGTTAAAAACTGAATTATGCTTTGACTGATATACCCAGTCTCAGG
AAAGTGAAAGCTGATGTTCTTCAATAAAACAGAAGATGATATAATTTGGAGAAGCCAATTG
GAGAAATTAGCATTTAAAGATAAAAGACTGGATGTTGAATTTGTTCTCTCAGCACCTATT
TCTGAATGGAATGGCAAACAGGGACATATTTACCAGCTCTTCTTCTGAATTTTTGAAA
AGAAATTTGGACAAATCCAAGTTCTCGTCTGCATTTGTGGACCAGTGCCATTTACAGAA
CAAGGAGTAAGGTTGCTGCATGATCTCAACTTTTCCAAAATGAGATCCATAGTTTTACA
GCATAA
    
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Clone variation with respect to NM\_016230.3

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_016230 unedited
ACTCACTATAGGGCGGCCGGAATTCGGCAGCAGGCTTGGCCTCTGCCCGGCCACAGAGC
CGGAGCTGGAGGTGCTGTCCCGTCTGGCGGCGATCCCCGGCAGGGCCCCGGGGCCGGGT
TTGAAGATGCTGAACGTCCCTTCCCAGTCTTTCCCGGCCCCAGGTGCGCAGCAGCGTGTG
GCCTCCGGGGGGCTAGCAAGGTACCTTTAAAACAGGGCAGAAGCCTTATGGATTGGATT
CGACTGACCAAAAAGTGGAAAGGATCTAACGGGATTAAGAGCAGGTTAATTGAAGTAACT
GAAGAAGAACTTAAGAAACACAACAAAAAAGATGATTGTTGGATATGCATAAGAGGTTTC
GTTTATAATGTCAGCCCTTATATGGAGTATCATCCTGGTGGAGAAGATGAACTAATGAGA
GCAGCAGGATCAGATGGTACTGAACTTTTTGATCAGGTTTCATCGTTGGGCAATTATGAA
TCCATGCTGAAAGAAATGCCTGGTTGGCAGAATGGCCATTAACCTGCTGTTCTGAAAGAC
TATCGTGAGGAGGAAAAGAAAGTCTTAAATGGCATGCTTCCCAAGAGCCAAGTGACAGAT
ACACTTGCCAAAAGGTCCTAGTTATCCAAGCTATGATTGGTTCCAAACAGACTCTNTA
GTCACCATTGCCATATATACTAAACAGAAGGATATCAATTTAGACTCAANNATAGNTGA
TCATCAGAAATGGATCCTTTAGAGCAGAAACATTATTAAGGGATNNGTTATATCTTATAC
ATATTGGGCTAAGCCATGAGGTGAGGAAAGATNTTCTGTGGCCGGNTGNTTAAAGTGTGG
GAAAATNNAAAATTGGTCTCAAAAAGAGATACTTTGGGACTNNCTGGGCATCCCTG
AGAATCATATTTCACTATCAGGAAGAACACGGGNTGGCTCACGAAGTGCAAGTTATTTCCCG
AAATGCTCTGATCAGGGTTTTTTGTTGAGCTGCCCAAGACTCTTTAATGCATGG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_016230 unedited TTTACTTAGTAAATCTTATTCTATTCTGCATCAATGCCATACACACAAAAATGTTTG GATCACTTAATAAGTTATAACATTCTATGTTTTAACATTAATAACAAGGACATAAATGAT CATTTCTGAGTTAACAGTGAAGGTAATAATCTGTATTGCTAATAAGACATTTTA CAGCATAGAAACATGATCGAAGTGATCATTACTTTATCATGTCATAAAACACAAGTGCT TATTGTAGAACAGTGATATAATTTAAATGGCAAGGAAATTTGTGATTCATAACAAAGAAT CCTGTATGTATTTGTTGCCATGATTAACCTTTCCAGGTCAAATATCAGTAGTAAAAAAGT TGTGGTACAAAAGAAAGCCAAGAAGTTACCTGTACTGAAGGAACATTTGATTTTCATTTAA GAAACTGAAGGCTGGATTCTAGTTAACCTTTTGTATGTACAAAAATGTTCTCTTAAAAA ACCCTAAGCAATCACAAATTTAGATAAACTAGTTGAATAAAGGACAATGCAGCTCTTCA TTATGCTGTAAACTATGGATCTCATTGTTGGAAAAGTTGAGATCATGCAGCAACCTTAC TCCTTGTCTGTAATGGCACTGGTCCACAAATGCAGACGAGAACTTTGGATTTGTCCAA ATTTCTTTTCAAAAATTCAGAAAGAAGAGCTGGTAAAATATGTCCTGTTTCCATTCCA TTCAGAAATAGGTGCTGAGAGAACAATCAACATCCAGTCTTTTATCTTTAAATGCTAA TTTCTCCAATTGGCTTCTCAATTATATNCATCTTCTGTTTATTGAAGAACATCAGCTCA CTTTCCTGAGACTGGGTATATCAGTCAAAGCATAAATCAGTATTTAACCATTGGTGTGA AGCCTCGTNCAGCTGCCAACAAAAGAGATCTTCTAATCTTGAACTGGGTATTTAANATG CCCCTCAGATGCTACAAAACA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016230
<b>Insert Size:</b>	2520 bp
<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>	<u>NM_016230.2, NP_057314.1</u>
<b>RefSeq Size:</b>	2039 bp
<b>RefSeq ORF:</b>	1464 bp
<b>Locus ID:</b>	51167
<b>UniProt ID:</b>	<u>Q7L1T6</u>
<b>Cytogenetics:</b>	6q14.2
<b>Domains:</b>	heme_1, NAD_binding_1, FAD_binding_6, CS

**Protein Families:** Druggable Genome

**Gene Summary:** NCB5OR is a flavohemoprotein that contains functional domains found in both cytochrome b5 (CYB5A; MIM 613218) and CYB5 reductase (CYB5R3; MIM 613213) (Zhu et al., 1999 [PubMed 10611283]).[supplied by OMIM, Jan 2010]