

Product datasheet for **SC319617**

CYB5R1 (NM_016243) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYB5R1 (NM_016243) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYB5R1
Synonyms:	B5R.1; B5R1; B5R2; humb5R2; NQO3A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_016243.2
 CAGGTGGTGGAGGAAAAGGCGCTCCGTCATGGGGATCCAGACGAGCCCCGTCTGCTGGC
 CTCCCTGGGGGTGGGGCTGGTCACTCTGCTCGGCCTGGCTGTGGGCTCCTACTTGGTTG
 GAGGTCCC GCCCGCTCAGGTCACTCTCCTGGACCCCAATGAAAAGTACCTGCTACGACT
 GCTAGACAAGACGACTGTGAGCCACAACACCAAGAGGTTCCGCTTTGCCCTGCCACCCG
 CCACCACACTCTGGGGCTGCCTGTGGGCAAACATATCTACCTCCACCCGAATTGATGG
 CAGCCTGGTCAACAGGCATACACTCCTGTCAACAGTATGAGGATCAAGGCTATGTGGA
 TCTTGTCATCAAGGTCTACCTGAAGGGTGTGCACCCCAAATTTCTGAGGGAGGGAAGAT
 GTCTCAGTACCTGGATAGCCTGAAGGTTGGGGATGTGGTGGAGTTTCGGGGGCCAAGCG
 GTTGCTCACTTACACTGGAAAAGGGCATTTTAACATTAGCCCAACAAGAAATCTCCACC
 AGAACCCCGAGTGGCGAAGAACTGGGAATGATTGCCGGCGGGACAGGAATCACCCCAAT
 GCTACAGTGTATCCGGCCATCCTGAAAGTCCCTGAAGATCCAACCCAGTCTTTCTGCT
 TTTTGCCAACCAGACAGAAAAGGATATCATCTTGCGGGAGGACTTAGAGGAACTGCAGGC
 CCGCTATCCCAATCGCTTAAAGCTCTGGTTCACCTCTGGATCATCCCCAAAAGATTGGGC
 CTACAGCAAGGGCTTTGTACTGCCGACATGATCCGGGAACACCTGCCCGCTCCAGGGGA
 TGATGTGCTGGTACTGCTTTGTGGGCCACCCCAATGGTGCAGCTGGCCTGCCATCCCAA
 CTTGGACAAACTGGGCTACTCACAAAAGATGCGATTACCTACTGAGCATCCTCCAGCTT
 CCCTGGTGTGTTGCTGCGTGCAGTTGTTCCCATCAGTACTCAAGCACTATAAGCCTTAGAT
 TCCTTTCTCAGAGTTTTCAGGTTTTTTCAGTTACATCTAGAGCTGAAATCTGGATAGTAC
 CTGCAGGAACAATATTCCTGTAGCCATGGAAGAGGGCCAAGGCTCAGTCACTCCTTGGAT
 GGCCTCCTAAATCTCCCGTGGCAACAGGTCCAGGAGAGGCCCATGGAGCAGTCTCTTCC
 ATGGAGTAAGAAGGAAGGAGCATGTACGCTTGGTCCAAGATTGGCTAGTTCCTTGATAG
 CATCTTACTCTCACCTTCTTTGTGTCTGTGATGAAAGGAACAGTCTGTGCAATGGGTTTT
 ACTTAAACTTCACTGTTCAACCTATGAGCAAATCTGTATGTGTGAGTATAAGTTGAGCAT
 AGCATACTTCCAGAGGTGGTCTTATGGAGATGGCAAGAAAGGAGGAAATGATTTCTCAG
 ATCTCAAAGGAGTCTGAAATATCATATTTCTGTGTGTCTCTCAGCCCTGCCCAGG
 CTAGAGGGAAACAGCTACTGATAATCGAAAACCTGCTGTTTGTGGCAGGAACCCCTGGCTG
 TGCAAATAAATGGGGCTGAGGCCCTGTGTGATATTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_016243

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	NM_016243.2 , NP_057327.2
RefSeq Size:	1675 bp
RefSeq ORF:	918 bp
Locus ID:	51706
UniProt ID:	Q9UHQ9
Cytogenetics:	1q32.1
Domains:	NAD_binding_1, FAD_binding_6
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Amino sugar and nucleotide sugar metabolism
Gene Summary:	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]