

## Product datasheet for **SC321937**

### Cytochrome b reductase 1 (CYBRD1) (NM\_024843) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome b reductase 1 (CYBRD1) (NM_024843) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome b reductase 1
Synonyms:	CYB561A2; DCYTB; FRRS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_024843.2  
GCGCGGTGCGGAGTATGGGGCGCTGATGGCCATGGAGGGCTACTGGCGCTTCTGGCGCT  
GCTGGGGTGGGCACTGCTCGTCGGCTTCTGTGGTGATCTTCGCCCTCGTCTGGGTCT  
CCACTACCGAGAGGGGCTTGGCTGGGATGGGAGCGCACTAGAGTTTAACTGGCACCCAGT  
GCTCATGGTCACCGGCTTCGTCTTCATCCAGGGCATCGCCATCATCGTCTACAGACTGCC  
GTGGACCTGGAATGCAGCAAGCTCCTGATGAAATCCATCCATGCAGGGTTAAATGCAGT  
TGCTGCCATTCTGCAATTATCTCTGTGGTGGCCGTGTTTGAGAACCACAATGTTAAACA  
TATAGCCAATATGTACAGTCTGCACAGCTGGGTTGGACTGATAGCTGTATGCTATTT  
GTTACAGTCTTTCAGGTTTTTCAGTCTTCTGCTTCCATGGGCTCCGCTTCTCTCCG  
AGCATTCTCATGCCATACATGTTTATTCTGGAATTGCATCTTTGGAACAGTGATTGC  
AACAGCACTTATGGGATTGACAGAGAACTGATTTTTCCCTGAGAGATCCTGCATACAG  
TACATTCGCCGAGAAAGGTGTTTTCGTAAATACGCTTGGCCTTCTGATCCTGGTGTTCGG  
GGCCCTCATTTTTGGATAGTCACCAGACCGCAATGGAACGTCCTAAGGAGCCAAATTC  
TACCATTCTTCATCCAAATGGAGGCACTGAACAGGGAGCAAGAGGTTCCATGCCAGCCTA  
CTCTGGCAACAACATGGACAAATCAGATTCAGAGTTAAACAATGAAGTAGCAGCAAGGAA  
AAGAACTTAGCTCTGGATGAGGCTGGGAGAGATCTACCATGTAATGTTGTAGAGAT  
AGAGCCATATAACGTCACGTTTTCAAACTAGCTCTACAGTTTTGCTTCTCCTATTAGCCA  
TATGATAATTGGGCTATGTAGTATCAATATTTACTTTAATCACAAAGGATGGTTTTCTTGA  
AATAATTTGATTGATTGAGGCTATGAACTGACCTGAATTGGAAGGATGTGATTAATA  
TAAATAATAGCAGATATAAATTGTGTTATGTTACCTTTATCTTGTGAGGACCACAACA  
TTAGCACGGTGCCTTGTGAGAATAGATACTCAATATGTGAATATGTGTCTACTAGTAGT  
TAATTGGATAAACTGGCAGCATCCCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_024843



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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>OTI Annotation:</b>	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.
<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_024843.2</a> , <a href="#">NP_079119.2</a>
<b>RefSeq Size:</b>	4254 bp
<b>RefSeq ORF:</b>	861 bp
<b>Locus ID:</b>	79901
<b>UniProt ID:</b>	<a href="#">Q53TN4</a>
<b>Cytogenetics:</b>	2q31.1
<b>Domains:</b>	Cytochrome_B561, B561
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>This gene is a member of the cytochrome b(561) family that encodes an iron-regulated protein. It highly expressed in the duodenal brush border membrane. It has ferric reductase activity and is believed to play a physiological role in dietary iron absorption. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>