

Product datasheet for **SC330557**

Cytochrome b reductase 1 (CYBRD1) (NM_001256909) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome b reductase 1 (CYBRD1) (NM_001256909) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome b reductase 1
Synonyms:	CYB561A2; DCYTB; FRRS3
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330557 representing NM_001256909. Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGCTGGACGAGGGAGAGGCCATCATCGTCTACAGACTGCCGTGGACCTGGAAATGCAGCAAGCTCCTG
 ATGAAATCCATCCATGCAGGGTTAAATGCAGTTGCTGCCATTCTTGCAATTATCTCTGTGGTGGCCGTG
 TTTGAGAACCAATGTTAACAATATAGCCAATATGTACAGTCTGCACAGCTGGGTTGGACTGATAGCT
 GTCATATGCTATTTGTTACAGCTTCTTTCAGGTTTTTCAGTCTTCTGCTTCCATGGGCTCCGCTTTCT
 CTCCGAGCATTCTCATGCCATACATGTTTATTCTGGAATTGCATCTTTGGAACAGTGATTGCAACA
 GCACTTATGGGATTGACAGAGAACTGATTTTTCCCTGAGAGATCCTGCATACAGTACATTCGCCCA
 GAAGGTGTTTTCGTAAATACGCTTGGCCTTCTGATCCTGGTGTTGCGGGCCCTCATTTTTTGGATAGTC
 ACCAGACCGCAATGGAACGTCCTAAGGAGCCAAATTCTACCATCTTCAATCCAAATGGAGGCACTGAA
 CAGGGAGCAAGAGGTTCCATGCCAGCCTACTCTGGCAACAACATGGACAAATCAGATTGAGATTAAAC
 AGTGAAGTAGCAGCAAGGAAAAGAACTTAGCTCTGGATGAGGCTGGGCAGAGATCTACCATGTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001256909
Insert Size:	687 bp
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).
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).


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Reconstitution Method:

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_001256909.1](#)

RefSeq Size: 4052 bp

RefSeq ORF: 687 bp

Locus ID: 79901

UniProt ID: [Q53TN4](#)

Cytogenetics: 2q31.1

Protein Families: Transmembrane

MW: 25.1 kDa

Gene Summary: 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]

Transcript Variant: This variant (3) contains an alternate 5' exon and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (3) has a distinct and shorter N-terminus, 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.