

Product datasheet for RC232207

Cytochrome b reductase 1 (CYBRD1) (NM_001256909) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome b reductase 1 (CYBRD1) (NM_001256909) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYBRD1
Synonyms:	CYB561A2; DCYTB; FRRS3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232207 representing NM_001256909 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGGACGAGGGAGAGGCCATCATCGTCTACAGACTGCCGTGGACCTGGAAATGCAGCAAGCTCCTGA
TAAAATCCATCCATGCAGGGTAAATGCAGTTGCTGCCATTCTTGCAATTATCTCTGTGGTGGCCGTGTT
TGAGAACCACAATGTTAAACAATATAGCCAATATGTACAGTCTGCACAGCTGGGTTGGACTGATAGCTGTC
ATATGCTATTTGTTACAGCTTCTTTTCAGGTTTTTCAGTCTTTCTGCTCCATGGGCTCCGCTTTCTCTCC
GAGCATTCTCATGCCCATACATGTTTATTCTGGAATTGTCATCTTTGGAACAGTGATTGCAACAGCACT
TATGGGATTGACAGAGAACTGATTTTTCCCTGAGAGATCCTGCATACAGTACATTCCCAGGAGAGGT
GTTTTTCGTAATACGCTTGGCCTTCTGATCCTGGTGTTCGGGGCCCTCATTTTTTGGATAGTCACCAGAC
CGCAATGGAAACGTCCTAAGGAGCCAAATTCTACCATTCTTCATCCAAATGGAGGCACTGAACAGGGAGC
AAGAGGTTCCATGCCAGCCTACTCTGGCAACAACATGGACAAATCAGATTCAGAGTTAAACAGTGAAGTA
GCAGCAAGGAAAAGAACTTAGCTCTGGATGAGGCTGGCAGAGATCTACCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232207 representing NM_001256909
 Red=Cloning site Green=Tags(s)

MLDEGEAIIIVYRLPWTWKCSKLLMKSIIHAGLNAVAAILAIISVVAVFENHNVNNIANMYSLHSHWGLIAV
 ICYLLQLLSGFSVFLLPWAPLSLRAFLMPIHVYSGIVIFGTVIATALMGLTEKLIFSLRDPAYSTFPPEG
 VFNVTLLGLLILVFGALIFWIVTRPQWKRPKPNSTILHPNGGTEQGARGSMPAYSGNNMDKSDSELNSEV
 AARKRNLLALDEAGQRSTM

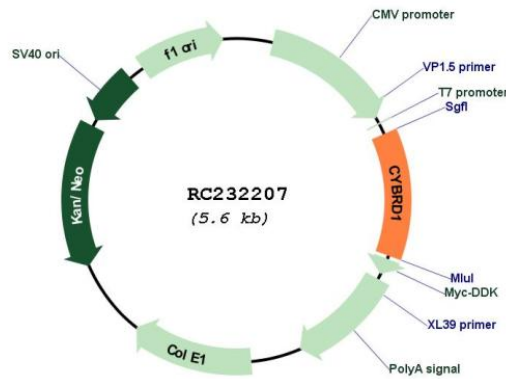
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256909

ORF Size: 684 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001256909.2
RefSeq Size:	4052 bp
RefSeq ORF:	687 bp
Locus ID:	79901
UniProt ID:	Q53TN4
Cytogenetics:	2q31.1
Protein Families:	Transmembrane
MW:	25.5 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]