

Product datasheet for **RG209455**

Cytochrome b reductase 1 (CYBRD1) (NM_024843) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome b reductase 1 (CYBRD1) (NM_024843) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cytochrome b reductase 1
Synonyms:	CYB561A2; DCYTB; FRRS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209455 representing NM_024843 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCATGGAGGGCTACTGGCGCTTCTGGCGCTGCTGGGGTCGGCACTGCTCGTCGGCTTCTGTCTCGG
TGATCTTCGCCCTCGTCTGGGTCTCCACTACCGAGAGGGGCTTGGCTGGGATGGGAGCGCACTAGAGTT
TAACTGGCACCAGTGCTCATGGTCACCGGCTTCGTCTTCATCCAGGGCATCGCCATCATCGTCTACAGA
CTGCCGTGGACCTGAAATGCAGCAAGCTCCTGATGAAATCCATCCATGCAGGGTAAATGCAGTTGCTG
CCATTCTTGCAATTATCTCTGTGGTGGCCGTGTTTGAGAACCACAATGTTAACAATATAGCCAATATGTA
CAGTCTGCACAGCTGGGTGGACTGATAGCTGTATGCTATTTGTTACAGCTTCTTTCAAGTTTTTCA
GTCTTTCTGCTTCCATGGGCTCCGCTTCTCTCCGAGCATTCTCATGCCATACATGTTTATTCTGGAA
TTGTCACTTTGGAACAGTGATTGCAACAGCACTTATGGGATTGACAGAGAACTGATTTTTTCCCTGAG
AGATCCTGCATACAGTACATTTCCCGCCAGAAGGTGTTTTCGTAAATACGCTTGGCCTTCTGATCCTGGTG
TTCGGGGCCCTCATTTTTGGATAGTCACCAGACCGCAATGGAACGTCCTAAGGAGCCAAATCTACCA
TTCTTCATCCAAATGGAGGCACTGAACAGGGAGCAAGAGGTTCCATGCCAGCCTACTCTGGCAACAACAT
GGACAAATCAGATTCAGAGTTAAACAATGAAGTAGCAGCAAGGAAAAGAACTTAGCTCTGGATGAGGCT
GGCAGAGATCTACCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209455 representing NM_024843
Red=Cloning site Green=Tags(s)

MAMEGYWRFLALLGSALLVGFLSVIFALVWVLHYREGLGWDGSALEFNWHPVLMVTGFVFIQGIAIIVYR
 LPWTWKCSKLLMKSIIHAGLNAVAAILAIIISVVAVFENHNVNNIANMYSLSHWVGLIAVICYLLQLLSGFS
 VFLLPWAPLSLRAFLMPIHVYSGIVIFGTVIATALMGLTEKLIFSLRDPAYSTFPPEGVFVNTLGLLILV
 FGALIFWIVTRPQWKRPKENSTILHPNGGTEQGARGSMPAYSGNMDKSDSELNNEVAARKRNALALDEA
 GQRSTM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024843

ORF Size: 858 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024843.2](#), [NP_079119.2](#)

RefSeq Size: 4254 bp

RefSeq ORF: 861 bp

Locus ID: 79901

UniProt ID: [Q53TN4](#)

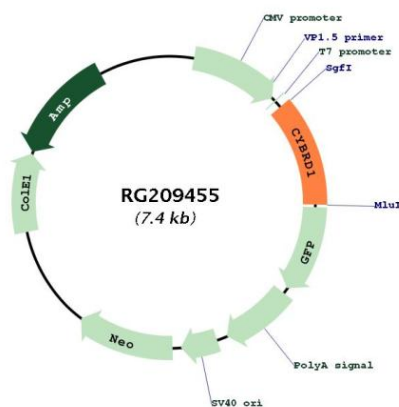
Cytogenetics: 2q31.1

Domains: Cytochrome_B561, B561

Protein Families: Transmembrane

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]

Product images:



Circular map for RG209455