

## Product datasheet for **RG225139**

### Cytochrome b reductase 1 (CYBRD1) (NM\_001127383) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cytochrome b reductase 1 (CYBRD1) (NM\_001127383) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CYBRD1  
**Synonyms:** CYB561A2; DCYTB; FRRS3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG225139 representing NM\_001127383  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCATGGAGGGCTACTGGCGCTTCTGGCGCTGCTGGGGTCGGCACTGCTCGTCGGCTTCTGTCCG  
TGATCTTCGCCCTCGTCTGGGTCTCCACTACCGAGAGGGGCTTGGCTGGGATGGGAGCGCACTAGAGTT  
TAACTGGACCCAGTGCTCATGGTCACCGGCTTCGTCTTCCAGGGCATCGCTTCTTTCAGGTTTTTC  
AGTCTTCTGCTTCCATGGGCTCCGCTTCTCTCCGAGCATTCTCATGCCATAACATGTTTATTCTGGA  
ATTGTCATCTTTGGAACAGTGATTGCAACAGCACTTATGGGATTGACAGAGAACTGATTTTTCCCTGA  
GAGATCCTGCATACAGTACATCCCGCCAGAAGGTGTTTTCGTAAATACGCTTGGCTTCTGATCCTGGT  
GTTCCGGGGCCCTCATTTTTGGATAGTACCAGACCGCAATGGAAACGTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG225139 representing NM\_001127383  
Red=Cloning site Green=Tags(s)

MAMEGYWRFLALLGSALLVGFLSVIFALVWVLHYREGLGWDGSALEFNWHPVLMVTGFVFIQGIASFRFF  
SLSASMGSAFSPSISHAHTCLFWNCHLWNSDCNSTYIDRETDFPERSCIQYIPARRCFRKYAWPSPDG  
VRGPHFLDSHQAMETS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

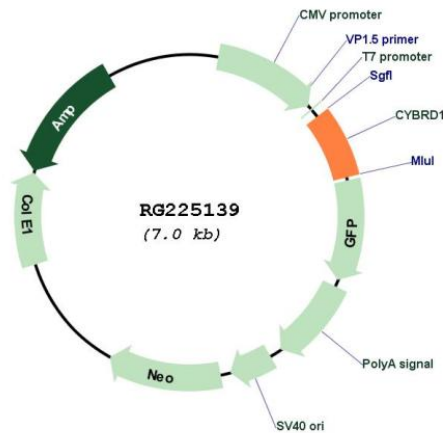


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001127383

ORF Size: 471 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.

<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>	<u>NM_001127383.2</u>
<b>RefSeq Size:</b>	4153 bp
<b>RefSeq ORF:</b>	474 bp
<b>Locus ID:</b>	79901
<b>UniProt ID:</b>	<u>Q53TN4</u>
<b>Cytogenetics:</b>	2q31.1
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]