

Product datasheet for **RG230960**

Cytochrome b5 (CYB5A) (NM_001190807) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome b5 (CYB5A) (NM_001190807) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYB5A
Synonyms:	CYB5; MCB5; METAG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<p>>RG230960 representing NM_001190807 Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC</p> <p>ATGGCAGAGCAGTCGGACGAGGCCGTGAAGTACTACACCCTAGAGGAGATTCAGAAGCACAAACCACAGCAAGAGCACCTGGCTGATCCTGCACCACAAGGTGTACGATTTGACCAAAATTTCTGGAAGAGCATCCTGGTGGGAAGAAGTTTTAAGGGAACAAGCTGGAGGTGACGCTACTGAGAACTTTGAGGATGTCGGGCACTCTACAGATGCCAGGAAATGTCCAAAACATTCATCATTGGGGAGCTCCATCCAGAACTCTATCACTACTATTGATTCTAGTTCCAGTTGGTGGACCAACTGGGTGATCCCTGCCATCTCTGCAGTGGCCGTCGCCTTGATGATCGCCTATACATGGCAGAGGAC</p> <p>ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA</p>
Protein Sequence:	<p>>RG230960 representing NM_001190807 Red=Cloning site Green=Tags(s)</p> <p>MAEQSDEAVKYITLEEIQKHNSKSTWLILHHKVYDLTKFLEEHPGEEVLRQAGGDATENFEDVGHSTDAREMSKTFIIGELHPETLITIDSSSSWWTNWVIPAISAVAVALMYRLYMAED</p> <p>TRTRPLE - GFP Tag - V</p>
Restriction Sites:	Sgfl-Mlul



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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_001190807.3
RefSeq Size:	820 bp
RefSeq ORF:	375 bp
Locus ID:	1528
UniProt ID:	P00167
Cytogenetics:	18q22.3
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is a membrane-bound cytochrome that reduces ferric hemoglobin (methemoglobin) to ferrous hemoglobin, which is required for stearyl-CoA-desaturase activity. Defects in this gene are a cause of type IV hereditary methemoglobinemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]