

Product datasheet for RG202378

OriGene Technologies, Inc.

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Cytochrome b5 (CYB5A) (NM_148923) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cytochrome b5 (CYB5A) (NM 148923) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: Cytochrome b5

Synonyms: CYB5; MCB5; METAG

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG202378 representing NM_148923

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CATCTCTGCAGTGGCCGTCGCCTTGATGTATCGCCTATACATGGCAGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202378 representing NM_148923

Red=Cloning site Green=Tags(s)

MAEQSDEAVKYYTLEEIQKHNHSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAGGDATENFEDVGHST

DAREMSKTFIIGELHPDDRPKLNKPPETLITTIDSSSSWWTNWVIPAISAVAVALMYRLYMAED

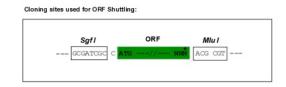
TRTRPLE - GFP Tag - V

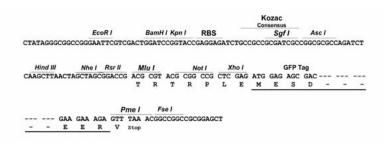
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_148923

ORF Size: 402 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.

RefSeq: <u>NM 148923.4</u>

RefSeq Size: 820 bp RefSeq ORF: 405 bp ORIGENE

Cytogenetics:

Locus ID: 1528 **UniProt ID:** P00167 18q22.3

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a membrane-bound cytochrome that reduces ferric

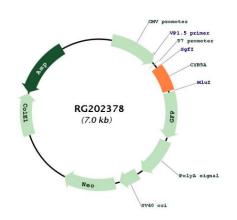
hemoglobin (methemoglobin) to ferrous hemoglobin, which is required for stearyl-CoA-

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]

Product images:



Circular map for RG202378