

Product datasheet for **MR200974**

Cyb5b (NM_025558) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cyb5b (NM_025558) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cyb5b
Synonyms: 1810044O22Rik; AU015618; Cyb5m
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200974 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGACCCCGGAGGCCAGCGGCAGTGGCGAGAAGGTCGAGGGCTCCGAGCCCTCCGTACCTACTACC
 GGCTGGAGGAGGTGGCGAAGCGAACTCGGCGGAAGAGACGTGGATGGTATCCACGGGCGAGTCTACGA
 TATCACCCGTTCTCAGCGAGCATCCTGGCGGGAAGAGTTCTGCTGGAACAAGCGGGTCTGATGCA
 ACTGAAAGCTTTGAAGATGTCGGCCACTCCCCTGATGCCAGGGAGATGCTAAAGCAGTACTACATTGGAG
 ATGTCCATCCGAGTGACCTTAAACCTAAAGGCGATGACAAGGATCCTTCAAGAACAATTCATGCCAAAG
 TTCTGGGCGTATTGGTTTGTCCCATCGTGGGCGCTATTCTTATAGGTTTCTTGTATCGTCACTTCTGG
 GCTGACAGCAAATCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200974 protein sequence
 Red=Cloning site Green=Tags(s)

MATPEASGSSEKVEGSEPSVTYYRLEEVAKRNSAEETWMVIHGRVYDITRFLSEHPGGEEVLLAQAGADA
 TEFEDVGHSPDAREMLKQYYIGDVHPSDLKPKGDDKDPKNNSCQSSWAYWVFPVIGAILIGFLYRHFV
 ADSKSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:



ACCN: NM_025558

ORF Size: 441 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: [NM_025558.5](#)

RefSeq Size: 4294 bp

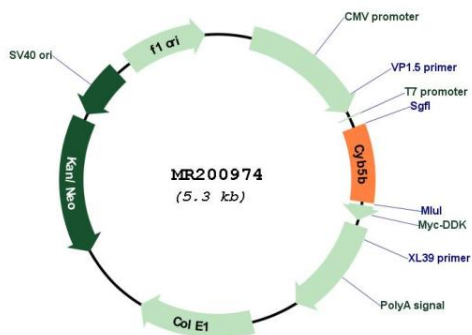
RefSeq ORF: 441 bp

Locus ID: 66427

UniProt ID: [Q9CQX2](#)

Cytogenetics: 8 D3
MW: 16.3 kDa
Gene Summary: Cytochrome b5 is a membrane-bound hemoprotein functioning as an electron carrier for several membrane-bound oxygenases.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200974