

Product datasheet for **MC217526**

Cyb5r4 (NM_024195) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cyb5r4 (NM_024195) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Cyb5r4 |
| Synonyms: | 2810034J18Rik; B5+B5R; b5/b5r; b5b5r; C79736; Cb5cb5r; Ncb5or |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC217526 representing NM_024195
Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGAACGTCCTTCCAGGCTTCCCGGCCCCCGGCTCCAGCAGCGCGTCTCTCCAGGGGCGCA
GCAAGGTACCTTTAAAACAAGGCAGGAGTCTTATGGATTGGATCCGACTGACCAAGAGTGGAAAGGACTT
AACAGGATTGAAGGGCGGGTTAATTGAAGTAAGTGAAGAAGAGCTTAAGAAGCACAAAGAAGAGAT
TGTTGGATATGCATAAGAGGGTTTGTACAACGTCAGCCCTTATATGGAGTACCATCCGGTGGGGAGG
ATGAACATGAGAGCCGAGGAGCCGATGGAACAGATCTTTTTAATGAGGTTTCATCGTTGGGTCATTA
TGAATCCATGCTGAAAGAATGCCTGGTTGGCAGGATGGCTGTGAAGCCTGCTGTTCCAAAAGACTGTCAT
GAAGGAAAGAGAGTCTTAAATGGCATGCTTCCCAAGCCAAATGTCAGACACACTGCCAGGGATGTGA
CAGACACACTGCCAGGGAAGACCTCAGTCTCCAAGCTATGATTGGTTCCAAACAGAGTCTTCAGTCAC
CATTGTTGTATACACAAACAAAAGAATATCAGTTTAGACTCAGTAATCGTTGACCTCCAGGATGACTCC
TTGAGAGCAGAAGCAGTCATCAAGGATCACTCTTACCTTGATACATGTTGGGCTAAGCCATGAAGTTCAAG
AAAATTTTCTGTACGGTTATTGAAAATGTTGAAAAATAGAGATTGCTCTACAAAAGAAAGAAAGTGT
TTCTTGGCAATGCTTGGTGATCACCTGGAGAAACATGATTCTTTCATTCCAAAGAAAGATACAGGCTTG
TACTACAGACGGTGCCAGTTAATATCTAAGGAAGATGTCACATGACACGAGACTTTTCTGTCTGATGC
TGCTCCAAGTACTCACCTTCAGGTGCCAGTTGGACAACATGTTACCTCAAGCTCAGTGTACAGGTGC
AGAAATAGTAAAGCCATATACACCCGTCTGATTCTTACTCTCAGATTTTAAAGAACCAGTCTTTTCC
CCAAATAAATACATCTGCTTTTTGATCAAAATCTATCTGCTGGACTTTCACACCAGAGCTTGATCGTC
TTCAGATTGGAGATTTTATTCTGTAAGCGGACCTGAAGCGGATTTTAAAGTATCCAAACTCCAGGAAG
AGAAGATCTCTTTCTATTGGCAGCCGGAACAGGATTCACACCAATGGTCACTGTACTGAATTATGCTTTG
TCTCACATGTCCAGTCTCAGGAAGTGAAGTTGATGTTCTTCAATAAAACAGAGGACGATATAATTTGGA
GATGTCAGCTAGAGAAGTTGGCATTAAAGAGAAAAAGATTTGATGTTGAATTTGTTCTCTCGGCACCTTC
TCCAGAATGGAATGGCAACAGGACACATATCACGAGCTCTTCTCTGAATTTTGCAAAAGAGTTCA
GAAAACCTAGGGCTTCTTTGCATCTGCGGACCAACACCATTACTGACGAGGGGATAAAGTTGCTGC
ATGATCTTAACTTTTCTGATGATGAGATTCACGGATTCACCGTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_024195

Insert Size: 1587 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_024195.2](#), [NP_077157.2](#)

RefSeq Size: 2653 bp

RefSeq ORF: 1587 bp

Locus ID: 266690

UniProt ID: [Q3TDX8](#)

Cytogenetics: 9 E3.1

Gene Summary: NADH-cytochrome b5 reductase involved in endoplasmic reticulum stress response pathway. Plays a critical role in protecting pancreatic beta-cells against oxidant stress, possibly by protecting the cell from excess buildup of reactive oxygen species (ROS).[UniProtKB/Swiss-Prot Function]