

Product datasheet for **MC218659**

Cyb5r4 (BC025438) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r4 (BC025438) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyb5r4
Synonyms:	Cb5cb5r, b5b5r, B5+B5R, b5/b5r
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC025438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTGGATCCGACTGACCAAGAGTGGAAAGGACTTAACAGGATTGAAGGGCGGGTTAATTGAAGTAA
 CTGAAGAAGAGCTTAAGAAGCACAAACAAGAAAGAGATTGTTGGATATGCATAAGAGGGTTGTTTACAA
 CGTCAGCCCTTATATGGAGTACCATCCGGTGGGAGGATGAACTCATGAGAGCCGAGGAGCCGATGGA
 ACAGATCTTTTTAATGAGGTTTCATCGTTGGGTCAATTATGAATCCATGCTGAAAGAATGCCTGGTTGGCA
 GGATGGCTGTGAAGCCTGCTGTTCCAAAAGACTGTCATGAAGGAAAGAGAGTCTTAAATGGCATGCTTCC
 CAAGAGCCAAATGTCAGACACACTGCCAGGGATGTGACAGACACACTGCCAGGGATGTGACAGACACA
 CTGCCAGGGAAGACCTCAGTTCTCAAGCTATGATTGGTTCCAAACAGAGTCTTCAGTCACCATTGTTG
 TATACACCAAACAAAAGAACATCAGTTTAGACTCAGTAATCGTTGACCTCCAGGATGACTCCTTGAGAGC
 AGAAGCAATCATCAAGGATCACTCTTACCTTGTACATGTTGGGCTAAGCCATGAAGTTCAAGAAAATTTT
 TCTGTACGGGTTATTGAAAATGTTGAAAAATAGAGATTGCTCTACAAAAGAAAAGTGTTCCTTCTGGC
 AATGTCTTGGTGATCACCTGGAGAAACATGATTCTTTCATTCCAAGAAAAGATACAGGCTTGTACTACAG
 ACGGTGCCAGTTAATATCTAAGGAAGATGTCACTCATGACACGAGACTTTTCTGTCTGATGCTGCCTCCT
 AGTACTCACCTTCAGGTGCCAGTTGGACAACACGTTTACCTCAAGCTCAGTGTACAGGTGCAGAAATAG
 TAAAGCCATATACACCCGTGCTGACTCCTTACTCTCAGATTTTAAAGAACCAGTTCTTTCCCAAATAA
 ATACATCTACTTTTTGATCAAAATCTATCTGCTGGACTCTTACACCAGAGCTTGATCGTCTTCAGATT
 GGAGATTTTATTCTGTAAGCGGACCTGAAGGCAATTTTAAAGTATCCACACTCCAGGAAGTAGAAGATC
 TCTTTCTATTGGCAGCCGGAACAGGATTCACACCAATGGTCACTGTACTGAATTATGCTTCTCACAT
 GTCCAGTCTCAGGAAGGTGAAGTTGATGTTCTTCAATAAAAACAGAGGACGATATAATTTGGAGATGTCAA
 CTAGAGAAGTTGGCATTAAAGAGAAAAAGATTTGATGTTGAATTTGTTCTCTCGGCACCTTCTCCAGAAT
 GGAATGGTAAACAGGGACACATATCACGAGCTTCTCTCTGAATTTTGCAAAGAAGTTCAGAAAACCTC
 TAGGGCCTTCTTTGCATCTGCGGACCAACACCATTTACTGATGAGGGGATAAGGTTGCTGCATGATCTT
 AACTTTTCTGATGATGAGATTACCGGATTCACCGCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC025438

Insert Size: 1509 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: [BC025438](#), [AAH25438](#)

RefSeq Size: 1895 bp

RefSeq ORF: 1508 bp

Locus ID: 266690

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]