

Product datasheet for **MR208072**

Cyb5r4 (BC025438) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR208072 representing BC025438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTGGATCCGACTGACCAAGAGTGGAAAGGACTTAACAGGATTGAAGGGCGGGTTAATTGAAGTAA
 CTGAAGAAGAGCTTAAGAAGCACAAAGAAGAAGATTGTTGGATATGCATAAGAGGGTTGTTTACAA
 CGTCAGCCCTTATATGGAGTACCATCCGGTGGGAGGATGAACTCATGAGAGCCGAGGAGCCGATGGA
 ACAGATCTTTTTAATGAGGTTTCATCGTTGGGTCAATTATGAATCCATGCTGAAAGAATGCCTGGTTGGCA
 GGATGGCTGTGAAGCCTGCTGTTCCAAAAGACTGTCATGAAGGAAAGAGAGTCTTAAATGGCATGCTTCC
 CAAGAGCCAAATGTCAGACACACTGCCAGGGATGTGACAGACACACTGCCAGGGATGTGACAGACACA
 CTGCCAGGGAAGACCTCAGTTCTCAAGCTATGATTGGTTCCAAACAGAGTCTTCAGTCACCATTGTTG
 TATACACCAAACAAAAGAACATCAGTTTAGACTCAGTAATCGTTGACCTCCAGGATGACTCCTTGAGAGC
 AGAAGCAATCATCAAGGATCACTCTTACCTTGTACATGTTGGGCTAAGCCATGAAGTTCAAGAAAATTTT
 TCTGTACGGGTTATTGAAAATGTTGAAAAATAGAGATTGCCTACAAAAGAAAAGTGTTCCTTCTGGC
 AATGTCTTGGTGATCACCTGGAGAAACATGATTCTTTCATTCCAAGAAAAGATACAGGCTTGTACTACAG
 ACGGTGCCAGTTAATATCTAAGGAAGATGTCACTCATGACACGAGACTTTTCTGTCTGATGCTGCCTCCT
 AGTACTCACCTTCAGGTGCCAGTTGGACAACACGTTTACCTCAAGCTCAGTGTACAGGTGCAGAAATAG
 TAAAGCCATATACACCCGTGCTGACTCCTTACTCTCAGATTTTAAAGAACCAGTTCTTTCCCAAATAA
 ATACATCTACTTTTTGATCAAACTATCCTGCTGGACTTTCACACCAGAGCTTGATCGTCTTCAGATT
 GGAGATTTTATTCTGTAAGCGGACCTGAAGGCAATTTAAAGTATCCACACTCCAGGAAGTAGAAGATC
 TCTTTCTATTGGCAGCCGGAACAGGATTCACACCAATGGTCACTGTACTGAATTATGCTTTGTCTCACAT
 GTCCAGTCTCAGGAAGGTGAAGTTGATGTTCTTCAATAAAACAGAGGACGATATAAATTTGGAGATGTCAA
 CTAGAGAAGTTGGCATTAAAGAGAAAAAGATTTGATGTTGAATTTGTTCTCTCGGCACCTTCTCCAGAAT
 GGAATGGTAAACAGGGACACATATCACGAGCTTCTCTCTGAATTTTGCAAAGAAGTTGAGAAAACCTC
 TAGGGCCTTCTTTGCATCTGCGGACCAACACCATTTACTGATGAGGGGATAAGGTTGCTGCATGATCTT
 AACTTTTCTGATGATGAGATTACGGATTACCCGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208072 representing BC025438
 Red=Cloning site Green=Tags(s)

MDWIRLTKSGKDLTGLKGGLEIVTEEELKHNKEDCWICIRGFVYVNSPYMEYHPGGEDELMRAAGADG
 TDLFNEVHRWVNYESMLKECLVGRMAVKPAVPKDCHEGKRVLNGMLPKSQMSDTLPRDVTDTLPRDVTDT
 LPREDLSSPSYDFQTESSVTIVVYTKQKNI SLDSVIVDLQDDSLRAEAIKDH SYLVHVL SHEVQENF
 SVRVIENVGKIEIVLQKKE SVSQCLGDHLEKHSFIPK KDTGLYRRCQLISKEDVTHDTRLFCLMLPP
 STHLQVPVQHVYLKLSVTGAEIVKPYTPVSDSLLSDFKEPVLSPNKYIYFLIKIYPAGLFPELDRLQI
 GDFISVSGPEGNFKVSTLQEVEDLFLLAAGTGFTPMVTVLNYALSHMSSLRKKVLMFFNKTEDDIWRCQ
 LEKLALREKRFDFEVL SAPSPEWNGKQGHISRALLSEFLQRSSENSRAFLCICGPTPFTDEGIRLLHDL
 NFSDEIHGFTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: BC025438

ORF Size: 1506 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: [BC025438.1](#)

RefSeq Size: 1895 bp

RefSeq ORF: 1508 bp

Locus ID: 266690

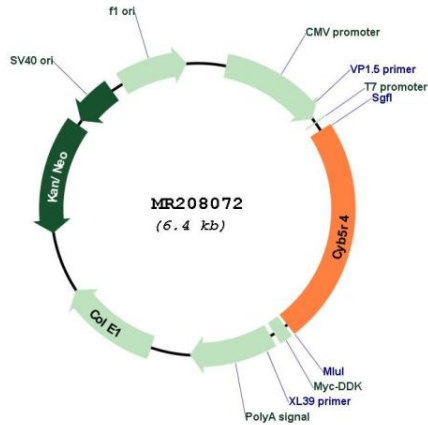
Cytogenetics: 9 E3.1

MW: 69.4 kDa

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]

Product images:



Circular map for MR208072