

Product datasheet for **RN207642**

Cyb5r4 (NM_133427) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r4 (NM_133427) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cyb5r4
Synonyms:	b5&b5R; b5+b5R; cb5/cb5R; Ncb5or
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN207642 representing NM_133427
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAACGTCCTTCCAGGCTTCCCGGCCCCCGGCTCCAGCAGCGCGTTGCCTCCAGGGCGTA
 GCAAGGTACCTTTAAAACAAGGCAGGAGTCTTATGGATTGGATCCGATTGACAAAAGTGAAAGGACTT
 CACGGGATTGAAGGGCGGGTAAATTGAAGTAACAGAAGAAGAACTTAAGAAGCACAAAGAAAGACGAC
 TGTTGGATATGCATAAGAGGGTTTGTACAATGTCAGCCATATATGGAGTATCATCTGGTGGGAGG
 ATGAGCTTATGAGAGCCGAGGAGCAGATGGAACGGATCTTTTTAATGAGGTGCATCGTTGGGCAATTA
 TGAATCCATGCTGAAAGAGTGCCTGGTTGGCAGGATGGCTGTGAAGCCCGCTGTTCCGAAAGACTGCAT
 GAAGGAAAGAGAGTCTTAAATGGCATGCTTCCAAAGCCAAGTGACAGACACTGCCAGGGAAGGCC
 CCAGTTCTCAAGCTATGATTGGTTCCAAACAGAGTCTTCAGTGACCATTGTTATACACCAAGCAGAA
 GAATATCAATTTAGACTCAGTAATCGTTGACCTCCAGGATGACTCCTTGAGAGCAGAAGCAGTCATCAAG
 GATCATTCTTATCTTATACATATTGGGTTAAGCCATGAAGTTCAAGAAAATTTTTCTGTACGGGTTATTG
 AGAATGTTGAAAAATAGAGATTGCTCTACAAAAGAAAGAACTGTTTCTTGAAATGTCTTGGTATCC
 CCTGGAGAAACATGATTCTTTATTCCAAAGAAAGATACAGGCTTGTACTATAGACAGTGCCAGTTAATT
 TCCAAGGAAGACGTTACTCATGACACAAGGCTCTTCTGTCTGATGCTGCCTCCAGTACTCACCTTCAGG
 TGCCAGTTGGGCAACATGTTTACCTCAAGCTCAGTGTACAGGTGCAGAAATAGTAAAGCCATATACACC
 CGTGTCTGAGTCTTACTCTCAGATTTTAAAGAACCAGTCTTTCCCAAATAAGTACATCTACTTTTTG
 TAAGTGGTCTGAGGGCAATTTTAAAGTTTCCAACTCCAGGAAGTGAAGATCTTTTTATTGGCAGC
 CGGAACAGGCTTACACCAATGGTTACTGTACTGAATCAGCTTTAACTCACATGTCCAGTCTCAGGAAG
 GTGAAGTTAATGTTCTTCAATAAAAACAGAGGATGACATAATTTGGAGATGCCAGCTAGAGAAATGGCAT
 TAAAAGATAAAAGATTTTCATGTTGAATATGTTCTCTCGGCACCTTCCCAGAATGGAATGGCAAACAGGG
 ACACGTGTACGAGCTCTTCTCTGAATTTTGAACGAAGTTAGAAAATTCTAAAGTCTTCTTTGTC
 ATCTGTGGACCAACCCATTTACAGATGAGGGGATAAGGTTGCTGCATGATCTTAACTTTCCGATGATG
 AGATTCATGGTTTTACAGCAT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_133427

Insert Size: 1563 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_133427.3](#), [NP_596918.3](#)

RefSeq Size: 2252 bp

RefSeq ORF: 1563 bp

Locus ID: 171015

UniProt ID: [Q68EIQ](#)

Cytogenetics: 8q31

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]