

Product datasheet for **MR220654**

Cyb5rl (NM_175471) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5rl (NM_175471) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyb5rl
Synonyms:	2810410C14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220654 representing NM_175471 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACAATAAGACCTTGAGAGCTGTTCTGCCAAGCTGAGTCCAGAGACTTTCCTGGCCTTCCACATCA
 GCACCATGGAGAAGTCAACCAAGGACACCTATCTTGCCGTTTACACTACCCGGGAACAGTCGGCTCGG
 CCTGCGTCCTGGACAGCACCTCATCCTACGAGGTGTAGTAGATGGCTTAGAGATTCAGAGAGCCTACACT
 CCCATCAGCCCTGTCACCTGCAGAAGGATACTTTGACGTTTTAATCAAGTGCTACCGGACTGGGCTGATGT
 CCCAGTATGTGGAGTCATGGAGAACAGGAGACACAGCCTTCTGGCGAGGGCCTTTCGGAAGCTTCTTATA
 TGAACCAAAGAAGTACGGCGAGCTCCTCATGCTAGCGGCTGGCACAGGCCTGGCCCCCATGGTGCCAATC
 CTGCAGAGCATCAGACGACGAAGATGATGAGACCTTTGTACCTTGGTTCGGCTGCTTCAAGACCTTCG
 AGGGCATCTACCTGAAGACCTTCTTCCAGGAACAGGCCAGGTTCTGGAACGTGCAAACCTTCTTTGTCT
 CAGTCAGGAGGTCTCCCCAGAACAGCTTCCCTGGAGCTACCGTGACAAGACCCATTTGGCCGCCTGGGC
 CAGGAGCTGTTGCTGAAGTGGTGGCCTGCTGCCGAGAAAGCCGTTTACCTTAGTCTGTGGCTCACCTG
 CATTTAATGAGGACATGGCTAGGTGTTGCTGTCTGCTGGCCTGACTGAGGACTCCTACTTCTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR220654 representing NM_175471
 Red=Cloning site Green=Tags(s)

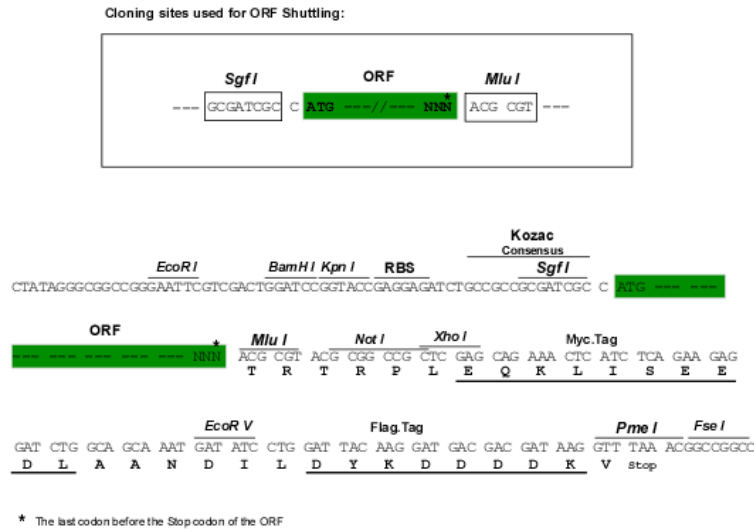
MNNKDLESCSAKLSPETFLAFHISTMEKVTKDYLVRFTLPGNSRLGLRPGQHLILRGVVDGLEIQRAYT
 PISPVTAEGYFDVLKCYRTGLMSQYVESWRTGDTAFWRGPFSGFLYEPKKYGELLMLAAGTGLAPMVPI
 LQSIDDDDEDTFVTLVGCFKTFEGIYKTFEQEQARFVNVQTFVLSQEVSPQLPWSYRDKTHFGRLG
 QELVAELVACCRKPFVTLVCGSPAFNEDMARCLLSAGLTEDSYFLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9081_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175471

ORF Size: 768 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_175471.4](#)

RefSeq Size: 1638 bp

RefSeq ORF: 771 bp

Locus ID: 230582

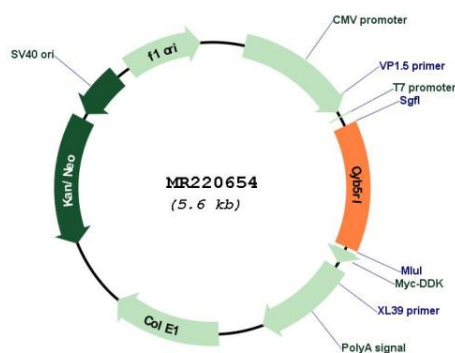
UniProt ID: [B1AS42](#)

Cytogenetics: 4 C7

MW: 29.1 kDa

Gene Summary: NADH-cytochrome b5 reductases are involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220654