

Product datasheet for **MR204203**

Cyb5r3 (NM_029787) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r3 (NM_029787) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyb5r3
Synonyms:	0610016L08Rik; 2500002N19Rik; C85115; Dia-1; Dia1; WU:AL591952.1-001; WU:AL591952.1-002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204203 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCCAGCTGAGCACGTTGAGCCACGTGGTGTCTCGCCCGTCTGGTTCATCTACAGTCTCTTCA
TGAAGCTGTTTCAGCGCTCCACACCGGCCATCACCTCGAGAACCCCGACATCAAGTACCCTCTGAGGCT
CATCGACAAGGAGGTCATCAGTCTGACACTCGGCGCTCCGATTTGCCCTCCCTCACCCAGCACATC
CTGGGCCCTTCTATTGGCCAACACATCTACCTCTCGACTAGGATCGATGGCAACTGGTCATTGGCCCT
ACACCCCTGTGTCGAGCGATGATGACAAGGGCTTTGTGGACTTGGTGGTCAAGGTTTACTCAAGGACAC
CCATCCCAAGTTTCCAGCTGGAGGGAAAATGTCTCAGTACCTGGAAAACATGAAGATTGGAGACACCATT
GAATCCGGGGTCCCAATGGGCTACTGGTCTACCAGGGCAAAGGGAAGTTTGCCATCCGTGCAGACAAGA
AGTCCAACCCCGTTGTCAGGACGGTGAAGTCTGTAGGCATGATTGCAGGAGGGACAGGCATCACCCCAAT
GCTGCAGGTGATCCGAGCCGTCCTGAAGGACCCAAACGACCACACCGTGTGCTATCTGCTCTTTGCCAAC
CAGTCCGAGAAAGATATCCTGTTGCGGCCTGAGCTGGAGGAACTGAGGAACGAACATTCTGCTCGTTCA
AGCTCTGGTACACAGTGGACAAAGCCCCTGATGCCTGGGACTATAGCCAGGGCTTCGTGAATGAGGAGAT
GATCAGGGACCACCTTCCAACCTCTGGGAGGAGCCGCTGATACTGATGTGTGGACCCCAACCAATGATC
CAGTTTGCTGTTTGCCAAACCTGGAGCGTGTGGGCCATCCCAAGGAGCGATGCTTACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



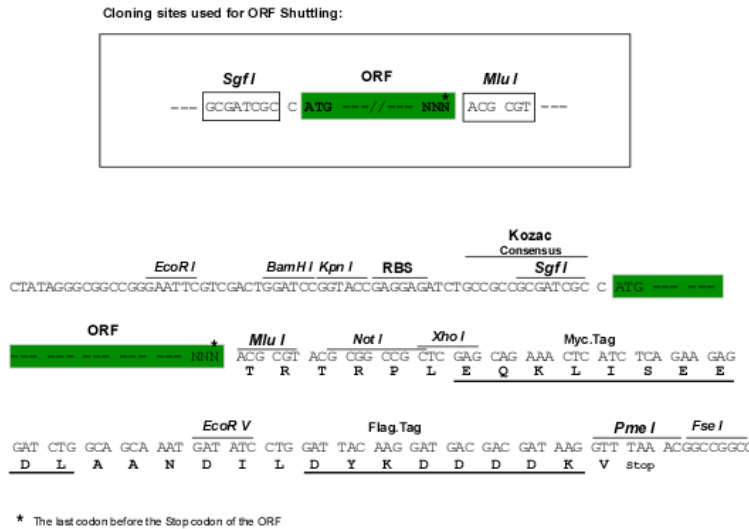
Protein Sequence: >MR204203 protein sequence
 Red=Cloning site Green=Tags(s)

MGAQLSTLSHVVLSPVWFIYSLFMKLFQRSTPAITLENPDIKYPLRLIDKEVISPDTRRFRFALPSPQHI
 LGLPIGQHIYLSTRIDGNLIRPYTPVSSDDDKGFVDLVVKVYFKDTHPKFPAGGKMSQYLENMKIGDTI
 EFRGPNGLLVYQKGFKAIRADKKNPVRVTVKSVGMIAAGGTGITPMLQVIRAVLKDNDHTVCYLLFAN
 QSEKDILLRPELEELRNEHSARFKLWYTVDKAPDAWDYSQGFVNEEMIRDHLPTPGEEPLILMCGPPPMI
 QFACLPNLERVGHPKERCFTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029787

ORF Size: 906 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: [NM_029787.3](#)

RefSeq Size: 2066 bp

RefSeq ORF: 906 bp

Locus ID: 109754

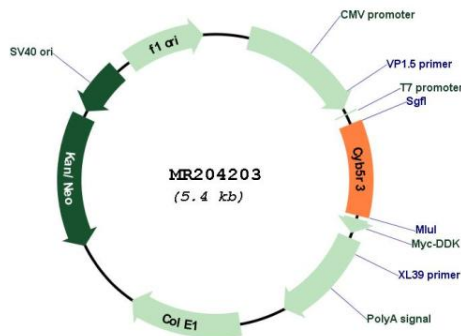
UniProt ID: [Q9DCN2](#)

Cytogenetics: 15 39.4 cM

MW: 34.1 kDa

Gene Summary: Desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204203