

Product datasheet for MR204299

Cyb5r1 (NM_028057) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r1 (NM_028057) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyb5r1
Synonyms:	1500005G05Rik; B5R.1; C80155; Nqo3a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204299 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATCCAGCCGAGCCCGGTCTTGCTAGCCTCTCTGGGGTGGGGCTGCTTACTCTGCTCGGCCTGG
CTCTGGGTACCTACTTGGTTCGAAGATCCCGCCGCCGAGGTTACTCTCCAGGACCCGGATGAGAAAGTA
CCTGCTGCGATTGCTAGACAAGACGACAGTGAGCCACAACACCAGGAGGTTCCGCTTTCCTTGCCACC
GCCACCACATTCTGGGGCTGCCTGTGGTAAGCACGTCTACCTCTGCCCCGAATTGATGCCAGTCTGG
TCATCAGGCCTTACACCCTGTACCAGTGATGAAGACCAAGGCTATGTAGATCTTGTCATCAAGGTTTA
TCTGAAAGGTGTGCACCCCAAATTTCTGAAGGAGGGAAGATGTCTCAATACCTGGATAGCTGAAGATT
GGGGATATGGTGGAGTTCGGGGGCCGAGCGGGTTGCTCAGTTATGCTGGAAAGGGAATTTAATATTC
AGCCCAACAAAAATCTCCACCTGAAGTGCAGTGGCGAAGAAATGGGAATGATTGCTGGTGGGACAGG
AATCACCCCAATGCTGCAGCTGATCCGGGCCATCTTGAAGTCCCTGAAGATCCAACCCAGTGTCTTCTG
CTTTTGGCAACCAGACTGAAAGGATATAATCCTGCGGGAGGACCTAGAGGAATTCAGGCCAGTATC
CTAATCGCTTTAAGCTCTGGTTCCTGACTCTCCTCCAGAAGACTGGACCTACAGCAAGGGCTTTGT
TACGGCTGACATGATCCAGGAGCACCTGCCTGCCCCAGCAGAGGATGTGCTGCTGCTCTGTGGACCA
CCACCATGGTGCAGCTGGCCTGCCACCCTAATTGGATAAGCTGGGCTATTCACAAAAGATGCGATTCA
CCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204299 protein sequence
Red=Cloning site Green=Tags(s)

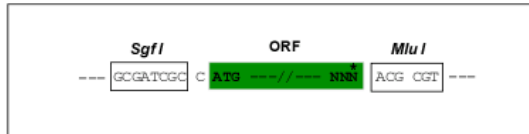
MGIQPSVLLASLGVGLL TLLGLALGTYLVRRSRRPQVTLQDPDEKYLRLLDKTTVSHNTRRRFRFALPT
 AHHILGLPVGKHVYLSARIDGSLVIRPYTPVTSDEDQGYVDLVIKVYLKGVHPKFPEGGKMSQYLDLSKI
 GDMVEFRGPSGLLSYAGKGNFNIQPNKSPPELRVAKKLGMIAGGTGITPMLQLIRAILKVPEDPTQCFL
 LFNQTERDIILREDLEELQAQYPNRFKLWFTLDSPPEDWTYSKGFVTADMIQEHLPAEAEDVLLLLCGP
 PPMVQLACHPNLDKLGYSQKMRFTY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028057

ORF Size: 918 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_028057.3](#)

RefSeq Size: 1626 bp

RefSeq ORF: 918 bp

Locus ID: 72017

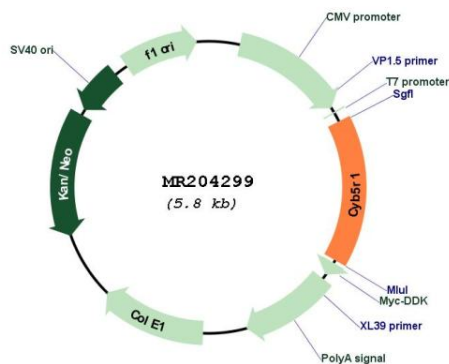
UniProt ID: [Q9DB73](#)

Cytogenetics: 1 E4

MW: 34.1 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 MR204299