

Product datasheet for RC209968

CYB5RL (NM_001031672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYB5RL (NM_001031672) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYB5RL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209968 representing NM_001031672 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCTGAGAGGGAAGAGGACGACGACTGAGGAAGCCTGGATGCAGCTACGGCCACAGAACCTT
TGCCTTCCAGTGCTGCGGCAGTGGCTGCTCACCTGTGTGTTTACCTCTATCACCGAGATCTGGCAAG
GTGGGAGGCAGCCAAGCCAGCAAGGACAGGAGCCTGCTGCGTGGGCCAGAGTCACAGAGCTGCCCTCC
AAGCTGAACCCAGAGACCTTCGTGGCCTTCTGCATCATTGCCATGGACAGGCTACTAAGGACACCTACC
GTGTCGGTGTGCTCTACCCGGAACAGCCAGCTTGGCCTGCGGCCCGCCAGCACCTCATCCTACGAGG
GATAGTAGATGACTTAGAAATTCAGAGAGCCTATACGCCATCAGCCCTGCCAACGCAGAAGGATACTTT
GAAGTGTTAATTAAGTGCTACCAGATGGGCTGATGTCCCGTATGTTGAGTCCTGGAGAGTAGGAGACA
CAGCTTCTGGCGAGGACCTTTCGGAGATTTCTTCTATAAACCAACCAGTATGGTGAGCTCCTCTTGCT
GGCTGCGGGCACGGCCTGGCCCCATGGTGCCTATCCTGCAGAGCATCACAGACAATGAGAATGACGAG
ACTTTTGTCACTCTGGTCGGTTGCTTCAAGACCTTTGAGAGCATCTACCTGAAAACCTTCTCCAAGAGC
AGGCCGTTTCTGGAATGTCCGTACCTTCTTTGACTCAGCCAGGAGAGCTCCTCAGAGCAGCTTCCCTG
GAGTTACCAAGAGAAAACCCACTTTGGCCACCTGGGCCAGGACCTAATTAAGAGCTGGTCAGCTGCTGT
CGGAGAAAAGCCATTCGCACTGGTCTGTGGCTCGGCTGAGTTCACCAAGACATAGCCAGGTGCTTACTGT
GCGCAGGCTCACTGAGGACTCCTATTTCTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209968 representing NM_001031672
Red=Cloning site Green=Tags(s)

MMAEREEDDDTTEAWMLRPTEPLPSQCCGSGCSPCVFDLYHRDLARWEAAQASKDRSLLRGPESQSCPS
 KLNPFETVAFCCIAMDRLTKDTRVRFALPGNSQLGLRPGQHLILRGIVDDLEIQRAYTPISPANAEQYF
 EVLIKCYQMGLMSRYVESWRVGDATFWRGPFGDFFYKPNQYGELLLLLAAGTGLAPMVPILQSIDNENDE
 TFVTLVGCFKTFESIYLLKTFLEQARFVNVRTFFVLSESSSEQLPWSYQEKTHFGHLGQDLIKELVSCC
 RRKPFALVCGSAEFTKDIARCLLCAGLTEDSYFLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8114_c03.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001031672

ORF Size: 945 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_001031672.4](#)

RefSeq Size: 3551 bp

RefSeq ORF: 948 bp

Locus ID: 606495

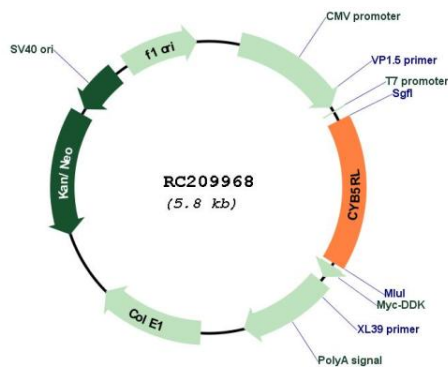
UniProt ID: [Q6IPT4](#)

Cytogenetics: 1p32.3

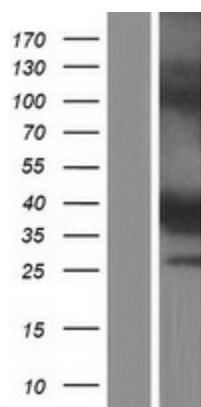
MW: 35.7 kDa

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 RC209968



Western blot validation of overexpression lysate (Cat# [LY422220]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209968 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).