

Product datasheet for **RG209968**

CYB5RL (NM_001031672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYB5RL (NM_001031672) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYB5RL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209968 representing NM_001031672 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCTGAGAGGGAAGAGGACGACGACACTGAGGAAGCCTGGATGCAGCTACGGCCACAGAACCCT
TGCCTTCCAGTGCTGCGGCAGTGGCTGCTCACCTGTGTGTTTGACCTCTATCACCGAGATCTGGCAAG
GTGGGAGGCAGCCCAAGCCAGCAAGGACAGGAGCCTGCTGCGTGGGCCAGAGTCACAGAGCTGCCCTCC
AAGCTGAACCCAGAGACCTTCGTGGCCTTCTGCATCATTGCCATGGACAGGCTCACTAAGGACACCTACC
GTGTCCGTTTGCTCTACCCGGAACAGCCAGCTTGGCCTGCGGCCCGGCCAGCACCTCATCCTACGAGG
GATAGTAGATGACTTAGAAATTCAGAGAGCCTATACGCCATCAGCCCTGCCAACGCAGAAGGATACTTT
GAAGTGTTAATTAAGTGCTACCAGATGGGGCTGATGTCCCGGTATGTTGAGTCCTGGAGAGTAGGAGACA
CAGCTTCTGGCGAGGACCTTTCGAGATTTCTTCTATAAACCAACCAGTATGGTGAGCTCCTCTTGCT
GGCTGCGGGCACGGGCTGGCCCCATGGTGCCTATCCTGCAGAGCATCACAGACAATGAGAATGACGAG
ACTTTTGTCACTCTGGTCGGTTGCTTCAAGACCTTTGAGAGCATCTACCTGAAAACCTTCTCCAAGAGC
AGGCCCGTTTCTGGAATGTCCGTACCTTCTTTGACTCAGCCAGGAGAGCTCCTCAGAGCAGCTTCCCTG
GAGTTACCAAGAGAAAACCCACTTTGGCCACCTGGGCCAGGACCTAATTAAGAGCTGGTCAGCTGCTGT
CGGAGAAAGCCATTCGACTGGTCTGTGGCTCGGCTGAGTTCACCAAAGACATAGCCAGGTGCTTACTGT
GCGCAGGCCTCACTGAGGACTCCTATTTCTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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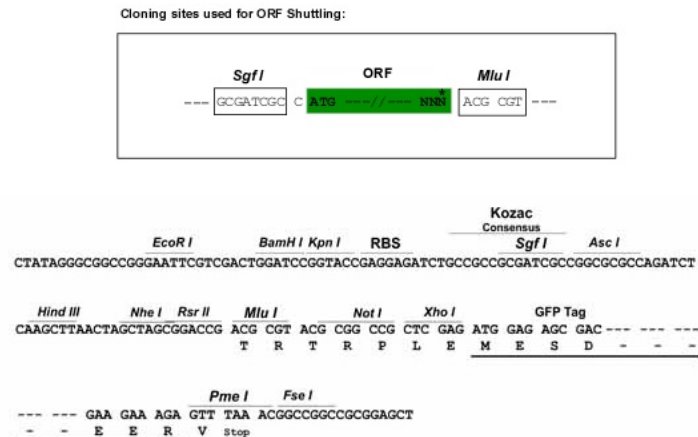
Protein Sequence: >RG209968 representing NM_001031672
 Red=Cloning site Green=Tags(s)

MMAEREEDDDTEEAWQLRPTEPLPSQCCSGCSPCVFDLYHRDLARWEAAQASKDRSLLRGPESQSCPS
 KLNPFETFAFCIIAMDRLTKDITYRVFALPGNSQLGLRPGQHLILRGIVDDLEIQRAYTPISPANAEGYF
 EVLIKCYQMGLMSRYVESWRVGDTAFWRGPFGDFFYKPNQYGELLLLLAAGTGLAPMVPILQSIDNENDE
 TFVTLVGCFKTFESIYKTLFLQEQRFWNVRTFFVLSQESSSEQLPWSYQEKTHFGHLGQDLIKELVSCC
 RRKPFALVCGSAEFTKDIARCLLCAGLTEDSYFLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

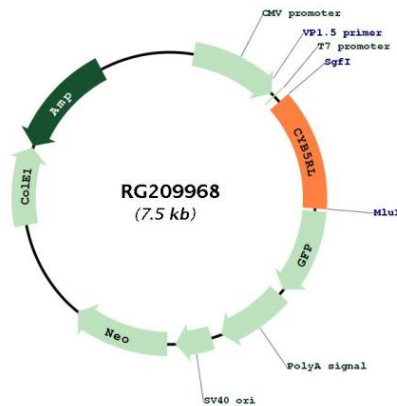
Locus ID: 606495

UniProt ID: [Q6IPT4](#)

Cytogenetics: 1p32.3

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 RG209968