

Product datasheet for RG217261

CYB5R2 (NM 016229) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CYB5R2 (NM_016229) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: CYB5R2

Synonyms: B5R.2

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG217261 representing NM_016229

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAACTCCAGGAGGAGAGAGCCAATCACCTTACAGGACCCTGAAGCCAAGTACCCGCTGCCCTTGATTG
AGAAAGAGAAAATCAGCCACAACACCCGGAGGTTCCGCTTTGGACTGCCTTCGCCGGACCATGTCTTAGG
GCTTCCTGTAGGTAACTATGTCCAGCTCTTGGCAAAAATCGATAATGAATTGGTGGTCAGGGCTTACACC
CCTGTCTCCAGTGATGATGACAGAGGCTTTGTGGACCTAATTATAAAGATCTACTTCAAAAAATGTACACC
CCCAATATCCTGAAGGTGGGAAGATGACTCAGTATTTGGAGAACATGAAAATCGGGGAGACCATCTTTTT
TCGAGGGCCAAGGGGACGCTTGTTTTACCATGGGCCAGGGAATCTTGGAATCAGACCAGACCAGACGAGT
GAGCCTAAAAAAAACACTGGCCGATCACCTGGGAATGATTGCTGGGGGCACAGGCATCACACCCATGTTGC
AGCTCATTCGCCACATCACCAAGGACCCCAGTGACAGGACCAGGATGTCCCTCATCTTTGCCAACCAGGT

CAGTTCCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217261 representing NM_016229

Red=Cloning site Green=Tags(s)

MNSRRREPITLQDPEAKYPLPLIEKEKISHNTRRFRFGLPSPDHVLGLPVGNYVQLLAKIDNELVVRAYT PVSSDDDRGFVDLIIKIYFKNVHPQYPEGGKMTQYLENMKIGETIFFRGPRGRLFYHGPGNLGIRPDQTS

EPKKTLADHLGMIAGGTGITPMLQLIRHITKDPSDRTRMSLIFANQVSSC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



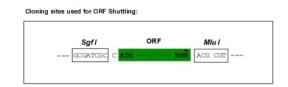
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

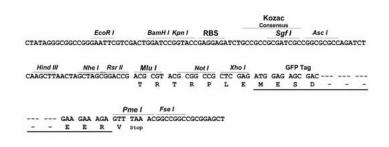
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: NM_016229

ORF Size: 570 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 016229.2, NP 057313.2

RefSeq Size: 1341 bp
RefSeq ORF: 831 bp
Locus ID: 51700
UniProt ID: Q6BCY4
Cytogenetics: 11p15.4



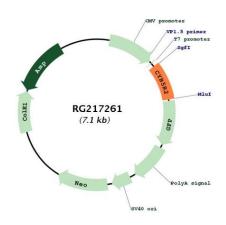
Domains: NAD_binding_1, FAD_binding_6

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene belongs to the flavoprotein pyridine nucleotide cytochrome

reductase family of proteins. Cytochrome b-type NAD(P)H oxidoreductases are implicated in many processes including cholesterol biosynthesis, fatty acid desaturation and elongation, and respiratory burst in neutrophils and macrophages. Cytochrome b5 reductases have soluble and membrane-bound forms that are the product of alternative splicing. In animal cells, the membrane-bound form binds to the endoplasmic reticulum, where it is a member of a fatty acid desaturation complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RG217261