

Product datasheet for **RG209304**

CYP4V2 (NM_207352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4V2 (NM_207352) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP4V2
Synonyms:	BCD; CYP4AH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209304 representing NM_207352
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGCTCTGGCTGGGGCTCGTGTGGCAGAAGCTGTGCTGTGGGGCGCGCGAGTGCCTTTCCC
 TGGCCGCGCCAGTCTGGTCTGAGCCTGCTGCAGAGGGTGGCGAGCTACGCGCGAAATGGCAGCAGAT
 GCGGCCCATCCCCACGGTGGCCCGCCTACCCACTGGTGGGCCACGCGTGTGATGAAGCCGGACGGG
 CGAGAATTTTTTACGAGATCATTGAGTACACAGAGGAATACCGCCACATGCCGCTGCTGAAGCTCTGGG
 TCGGGCCAGTGCCATGGTGGCCCTTTATAATGCAGAAAATGTGGAGGTAATTTTAACTAGTTCAAAGCA
 AATTGACAAATCCTCTATGTACAAGTTTTTAGAACCATTGGCTTGGCTTAGGACTTCTTACAAGTACTGGA
 AACAAATGGCGCTCCAGGAGAAAGATGTTAACACCCACTTTCCATTTTACCATTCTGGAAGATTTCTTAG
 ATATCATGAATGAACAAGCAAATATATTGGTTAAGAACTTGA AAAACACATTAACCAAGAAGCATTAA
 CTGCTTTTTTACATCACTCTTTGTGCCTTAGATATCATCTGTGAAACAGCTATGGGAAGAATATTGGT
 GCTCAAAGTAATGATGATTCCGAGTATGTCCTGCAAGTTTATAGAATGAGTGAGATGATATTTTCAAGAA
 TAAAGATGCCCTGGCTTTGGCTTGATCTCTGGTACCTTATGTTTAAAGAAGGATGGGAACACAAAAGAG
 CCTTCAGATCCTACATACTTTTACCAACAGTGTACGCTGAACGGGCCAATGAAATGAACGCCAATGAA
 GACTGTAGAGGTGATGGCAGGGGCTCTGCCCTCCAAAAATAAACGCAGGGCCTTTCTTGACTTGCTTT
 TAAGTGTGACTGATGACGAAGGGAACAGGCTAAGTCATGAAGATATTCGAGAAGAAGTTGACACCTTCAT
 GTTTGAGGGGCACGATACAACCTGCAGCTGCAATAAACTGGTCTTATACCTGTTGGGTTCTAACCCAGAA
 GTCCAGAAAAAAGTGGATCATGAATTGGATGACGTGTTTGGGAAGTCTGACCGTCCCGCTACAGTAGAAG
 ACCTGAAGAAAACCTCGGTATCTGGAATGTGTTATTAAGGAGACCTTCGCCTTTTCTCTGTTCCCTTT
 ATTTGCCCGTAGTGTAGTGAAGATTGTGAAGTGGCAGGTTACAGAGTTCTAAAAGGCACTGAAGCCGTC
 ATCATTCCCTATGCATTGCACAGAGATCCGAGATACTTCCCAACCCCGAGGAGTCCAGCCTGAGCGGT
 TCTTCCCCGAGAATGCACAAGGGCGCCATCCATATGCCTACGTGCCCTTCTCTGTGGCCCCAGGAAGT
 TATAGGTCAAAGTTTGTGTGATGGAAGAAAAGACCATCTTTTCGTGCATCCTGAGGCACTTTTGGATA
 GAATCCAACCAGAAAAGAGAAGAGCTTGGTCTAGAAGGACAGTTGATTCTTCGTCCAAGTAAATGGCATCT
 GGATCAAGTTGAAGAGGAGAAAATGCAGATGAACGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

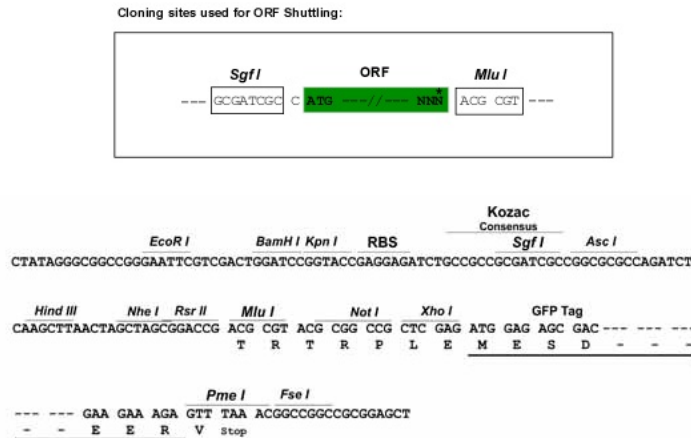
>RG209304 representing NM_207352
 Red=Cloning site Green=Tags(s)

MAGLWLGLVWQKLLLWGAASALSLAGASLVL SLLQRVASYARKWQMRPIPTVARAYPLVGHALLMKPDG
 REFFQQII EYTEEYRHMP LLLKLVGPVPMVALYNAENVEVILTSSKQIDKSSMYKFLPWLGLLLTSTG
 NKWRSRRKMLTPTFHFTILEDFLDIMNEQANILVKKLEKHINQEA FNCFYITL CALDII CETAMGKNIG
 AQSND DSEYVRAYRMSEMI FRRIKMPWLWDLWYLMFKEGWEHKKSLQILHTFTNSVIAERANEMNANE
 DCRGDGRGSAPSKNRR AFLDLLSVTDDEGNRLSHEDIREEVDTFMFEGHDTTAAAINWSLYLLGSNPE
 VQK KVDHELDDVFGKSDRPATVEDLKKLRYLECVIKETLRLFPSVPLFARSVSEDCEVAGYRVLKGT EAV
 IIPYALHRDPRYPNPEEFQPERFFPEN AQGRHPYAYVPFSAGPRNCIGQKFVME EKTILSCILRHFWI
 ESNQKREELGLEQLILRPSNGIWIKLR RNADER

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_207352

ORF Size: 1575 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_207352.4](#)

RefSeq Size: 4713 bp

RefSeq ORF: 1578 bp

Locus ID: 285440

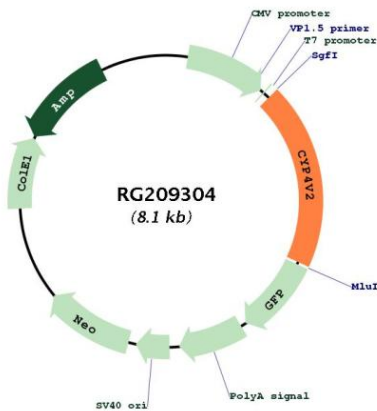
UniProt ID: [Q6ZWL3](#)

Cytogenetics: 4q35.1-q35.2

Protein Families: Druggable Genome, P450, Transmembrane

Gene Summary: This gene encodes a member of the cytochrome P450 hemethiolate protein superfamily which are involved in oxidizing various substrates in the metabolic pathway. It is implicated in the metabolism of fatty acid precursors into n-3 polyunsaturated fatty acids. Mutations in this gene result in Bietti crystalline corneoretinal dystrophy. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209304