

Product datasheet for **RG207417**

Cytochrome p450 2J2 (CYP2J2) (NM_000775) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome p450 2J2 (CYP2J2) (NM_000775) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cytochrome p450 2J2
Synonyms:	CPJ2; CYP1I2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207417 representing NM_000775
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCGCGCGATGGGCTCTCTGGCGGCTGCCCTCTGGGCAGTGGTCCATCCTCGGACTCTCTACTGG
 GCACTGTGCGCTTTCTGCTCGCTGCTGACTTTCTCAAAGACGGCGCCAAAGAAGTACCGCGGGGCC
 CTGGCGCCTGCCCTTCTTGGCAACTTCTCTTGTGGACTTCGAGCAGTCGCACCTGGAGGTTAGCTG
 TTTGTGAAGAAATATGGGAACCTTTTTAGCTTGGAGCTTGGTGACATATCTGCAGTTCTTACTGGCT
 TGCCCTTAATCAAAGAAGCCCTTATCCACATGGACCAAACTTTGGGAACCGCCCGTGACCCTATGCG
 AGAACATATCTTAAAGAAAATGGATTGATTATGTCAAGTGGCCAGGCATGGAAGGAGCAAAGAAGTTC
 ACTCTGACAGCACTAAGGAACCTTGGTTTAGGAAAGAAGAGCTTAGAGGAACGCATTAGGAGGAGGCC
 AACACCTCACTGAAGCAATAAAGAGGAGAACGGACAGCCTTTGACCCTATTTCAAGATCAACAATGC
 AGTTTCCAATATCATTGCTCCATCACCTTCGGAGAACGCTTTGAGTACCAGGATAGTTGGTTTCAGCAG
 CTGCTGAAGTTACTAGATGAAGTACATACTTGGAGGCTCAAAGACATGCCAGCTCTACAATGTCTTTC
 CATGGATAATGAAATTCCTGCCTGGACCCACCAAACCTCTTTCAGCAACTGGAAGAACTGAAATGTGTT
 TGTTTCTCATATGATTGACAAACACAGAAAGGATTGGAATCCTGCAGAAACAAGAGACTTTATTGATGCT
 TACCTTAAAGAAATGTCAAAGCACACAGGCAATCCTACTTCAAGTTTCCATGAAGAAAACCTCATCTGCA
 GCACCTTGGACCTCTCTTTGCCGGAACCGAGACAACCTCCACAACCTCTGCGATGGGCTCTGCTTTATAT
 GGCCCTTACCCAGAAATCCAAGAAAAGTACAAGCTGAGATTGACAGAGTGATTGGCCAGGGGCAGCAG
 CCGAGCACAGCCCGGGAGTCCATGCCCTACACCAATGCTGTCATCCATGAGGTGCAGAGAATGGCA
 ACATCATCCCCCTGAACGTTCCAGGGAAGTGACAGTTGATACCACTTTGGCTGGGTACCACTGCCCAA
 GGTACCATGATCCTGACCAATTTGACGGCGCTGCACAGGGACCCACAGAGTGGGCCACCCCTGCACAA
 TCAATCCGACCATTTTCTGGAGAATGGACAGTTTAAAGAAAAGGGAAGCCTTTATGCCTTCTCAATAG
 GAAAGCGGGCATGCCTCGGAGAACAGTTGGCCAGGACTGAGCTGTTATTTTCTCACTTCCCTTATGCA
 AAAATTTACCTTCAAGCCCCAAACAATGAGAAGCTGAGCCTGAAGTTTAGAATGGGTATCACCATTTC
 CCAGTCAGTCACCGCCTCTGCGCTGTTCTCAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207417 representing NM_000775
 Red=Cloning site Green=Tags(s)

MLAAMGSLAAALWAVVHPRLLLLGTVAFLLAADFLKRRRPKNYPPGPWRLPFLGNFFLVDFEQSHLEVQL
 FVKKYGNLFSLELGDISAVLITGLPLIKEALIHMDQNFGRPVTPMREHIFKKNGLIMSSGQAWKEQRRF
 TLTALRNFGLGKKSLEERIQEEAQHLTEAIKEENGQPFDPHFKINNAVSNIIICSITFGERFEYQDSWFQQ
 LLKLLDEVTYLEASKTCQLYNVFPWIMKFLPGPHQTLFSNWKLLKLFVSHMIDKHKRDWNPATRDFFIDA
 YLKEMSKHTGNPTSSFHEENLICSTLDLFFAGTETTSTTLRWALLYMALYPEIQEKVQAEIDRVIGQGQQ
 PSTAARESMPYTNVAIHEVQRMGNIIPLNVPREVTVDTTLAGYHLPKGTMLTNLTALHRDPTWATPDT
 FNPDPHFLENGQFKKREAFMPFSIGKRALGEQLARTELFIFFTSLMQKFTFRPPNNEKLSLKFRMGITIS
 PVSHRLCAVPQV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_000775

ORF Size: 1506 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_000775.4](#)

RefSeq Size: 1876 bp

RefSeq ORF: 1509 bp

Locus ID: 1573

UniProt ID: [P51589](#)

Cytogenetics: 1p32.1

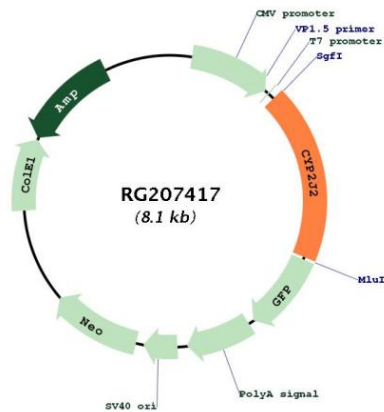
Domains: p450

Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Arachidonic acid metabolism, Linoleic acid metabolism, Metabolic pathways

Gene Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is thought to be the predominant enzyme responsible for epoxidation of endogenous arachidonic acid in cardiac tissue. Multiple transcript variants have been found for this gene. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG207417