

## Product datasheet for **RC214072**

### **CYP2U1 (NM\_183075) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CYP2U1 (NM_183075) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP2U1
Synonyms:	P450TEC; SPG49; SPG56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC214072 representing NM\_183075  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGTCTCCGGGGCCGTCGCAGCCGCCGGCCGAGGACCCGCCCTGGCCCGCGCCTCTGCGTGCGC  
 CTCTGGGGCTGCTGCGGCTGGACCCAGCGGGGCGCGCTGCTGCTATGCGGCCTCGTAGCGCTGCTGGG  
 CTGGAGCTGGCTGCGGAGGCGCCGGGCGCGGGGCATCCCGCCGGGCCACGCCCTGGCCTCTGGTGGG  
 AACTTCGGTCACGTGCTGCTGCCTCCCTTCTCCGGCGCGGAGCTGGCTGAGCAGCAGGACCAGGGCCG  
 CAGGGATTGATCCCTCGGTATAGGCCCGCAGGTGCTCTGGCTCACCTAGCCCGCGTGTACGGCAGCAT  
 CTTCAGCTTTTATCGGCCACTACCTGGTGGTGGTCTCAGCGACTTCCACAGCGTGCCGAGGGCGCTG  
 GTGAGCAGGCGGAGGTCTCAGCGACCCCGCGGGTCCGCTCATCTCCATCGTGACCAAGGAGAAGG  
 GGGTTGTGTTGCACATTATGGTCCCGTCTGGAGACAACAAGGAAGTTCTCTCATTCAACTCTTCGTC  
 TTTTGGGTTGGGAAAACCTAGCTTGGAGCCCAAGATTATTGAGGAGTTCAAATATGTGAAAGCAGAAATG  
 CAAAAGCACGGAGAAGACCCCTTCTGCCCTTCTCCATCATCAGCAATGCCGTCTCTAACATCATTGCT  
 CCTTGTGCTTTGGCCAGCGCTTTGATTACACTAATAGTGAGTTCAAGAAAATGCTTGGTTTTATGTCACG  
 AGGCCTAGAAATCTGCTGAACAGTCAAGTCTCCTGGTCAACATATGCCCTTGGCTTTATTACCTCCC  
 TTTGGACATTTAAGGAATTAAGACAAATTGAAAAGGATATAACCAAGTTTCTTAAAAAATCATCAAAG  
 ACCATCAAGAGTCTCTGGATAGAGAGAACCCTCAGGACTTCATAGACATGTACCTTCTCCACATGGAAGA  
 GGAGAGAAAAAATAAGTAACAGCAGTTTTGATGAAGAGTACTATTTTATATCATTGGGGATCTCTTT  
 ATTGCTGGGACTGATACCACAATAACTCTTGGTCTGGTGCCTGTATATGTCGCTGAACCCCGATG  
 TACAAGAAAAGTTTATGAAGAAATTAAGAAAGTCAATTGGCGCCAACCGAGCTCTTCCCTCACAGACAA  
 GGCCAGATGCCCTACACAGAAGCCACCATCATGGAAGTGCAGAGGCTAACTGTGGTGGTCCCGCTTGCC  
 ATTCTCATATGACCTCAGAGAACACAGTCTCCAAGGTATACCATTCCTAAAGGCACATTGATCTTAC  
 CCAACCTGTGGTCACTACATAGAGACCCAGCCATTTGGGAGAAACCGGAGGATTTCTACCCTAATCGATT  
 TCTGGATGACCAAGGACAATAATTAAGAAAGAAACCTTTATTCTTTTGGGATAGGGAAGCGGGTGTGT  
 ATGGGAGAAACACTGGCAAAGATGGAATTATTCCTAATGTTTGTGAGCCTAATGCAGAGTTTCGATTTG  
 CTTTACCTGAGGATTCTAAGAAGCCCTCCTGACTGGAAGATTTGGTCTAACTTTAGCCCCACATCCATT  
 TAATAACTATTTCAAGGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC214072 representing NM\_183075  
 Red=Cloning site Green=Tags(s)

MSSPGSPQPAEDPPWPARRLLRAPLGLLRDPSGGALLL CGLVALLGWSWLRRRRARGIPPGTPWPLVG  
 NFGHVLLPPFLRRRSWLSRTRAAGIDPSVIGPQVLLAHLARVYGSIFSFFIGHYLVVLSDFHSVREAL  
 VQQAQEVFSDRPRVPLISIVTKEKGVVFAHYGPVWRQQRKFSHSTLRHFGLGKLSLEPKIIEEFKYVKAEM  
 QKHGEDPFCPFSIISNAVSNIICSLCFGQRFDYTNSEFKMLGFMSRGLIICLNSQVLLVNICPWLYPL  
 FGFPEKLRQIEKDITSFLKIIKDHQESLDRENPDQDFIDMYLLHMEERKNSNSFDEEYLFYIIGDLF  
 IAGTDTTNSLLWCLLYMSLNPVQEKVHEEIERVIGANRAPSLTDKAQMPYTEATIMEVQRLTVVPLA  
 IPHMTSENTVLQGYTIPKGTLLPNLWSVHRDPAIWEKPEDFYPNRFLDDQQLIKKETIFPFGIGKRVC  
 MGEQLAKMELFLMFVSLMQSFAFALPEDSKKPLL TGRFGLTLAPHPFNITISRR

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg4070\\_b12.zip](https://cdn.origene.com/chromatograms/mg4070_b12.zip)

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_183075

ORF Size: 1632 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\\_183075.3](#)

RefSeq Size: 4760 bp

RefSeq ORF: 1635 bp

Locus ID: 113612

UniProt ID: [Q7Z449](#)

**Cytogenetics:** 4q25

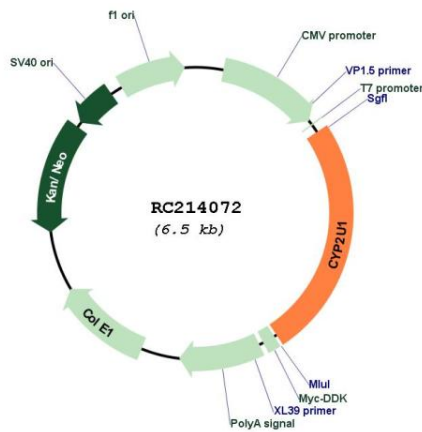
**Protein Families:** Druggable Genome, P450, Transmembrane

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

**MW:** 61.8 kDa

**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 enzyme is a hydroxylase that metabolizes arachidonic acid, docosahexaenoic acid, and other long chain fatty acids. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC214072