

## Product datasheet for **RR209549**

### **Cyp2u1 (NM\_001024779) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp2u1 (NM_001024779) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp2u1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR209549 representing NM\_001024779  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCTCGATCGGGGGCTGCGTCCCAGCGCCGGGAGCAGCCGGGAGTTGGGCCGCACCTACAGCGCG  
 TGGGAGGCGCGCTGCTGCTTTCGGGCTGGCGGTCTGCTGGACTGGGTTTGGCTGCAGCGGCAGCGCGC  
 CGGCGGCATCCCTCCGGGCCAAAGCCTCGGCCACTCGTGGGTAACCTCGGGTACTTGTCTGCCGCGC  
 TTCCTACGGCTGCACTTCTGGCTGGGCTCGGGCAGCCAGACAGTACAGTACAGTACAGTACAGTACAGT  
 CCAGGCTGGCCGTGTCTATGGCAACATCTTCAGCTTCTTCATCGGCCACCGTCTGGTGGTGGTCTCAG  
 CGACTTCCAGAGCGTGCAGGAGCGCTTGTGCAGCAGGCCGAAGTGTTCAGTACCGCCCGCGGATGCCG  
 CTCATCTCCATCTTGACCAAGGAGAAGGAATCGTGTTCGCACACTATGGTCCGATCTGGAAGCAGCAGA  
 GAAGATTCTCCACTCAACCCTTCGTCACTTCGGCCTGGGCAAGCTTAGCCTGGAGCCAGGATCATCGA  
 GGAGTTCCGCTACGTGAAAGCAGAGATGCAGAAGCACGGGAGGCCCTTCAGCCCTTCCAGTCATC  
 AGCAATGCCGTCTCCAACATCATCTGCTCCCTGTGCTTCGGCCAGCGCTTCGACTACACCAACAAGGAGT  
 TAAAAAGGTGCTGGACTTCATGTCTCGAGGGTAGAAATCTGCTTGCACAGCCAGCTCTTCTGATCAA  
 CCTATGTCCTGGTTTTACTACCTTCCCTTTGGGCCGTTTAAAGAACTGAGGCAAATCGAAAGGGACATA  
 ACCTGCTTCTTAAAAACATCATCAAAGAGCACCAGAGTCTCTGGATGCCAACAACCCCGAGGACTTCA  
 TAGACATGTACCTTCTGCACACGCGAGGAGGAGAAGGACAAGTGAAGGGCACCAACTTCGATGAGGACTA  
 CCTGTTTACATCATCGGGACCTTTCATCGCGGCACGGACACCACAACCAACTCTTTGCTCTGGTGC  
 CTGCTGTACATGCTCACTGAACCCCGCGCTGCAAAAAAGGTTTCATGAAGAAATGAAAGGTCATTGGCC  
 GTGACCTGCACCTTCCCTCACAGACAAGGCCAGATGCCATACACAGAAGCCACCATCATGGAGGTACA  
 CGGTTATCCATGGTGGTACCCTTGCATTCCCTCACATGACCTCGGAGAAAACAGTCTCCAAGGGTAC  
 AGTATTCTAAAGGCACAGTGGTCTACCAATTTGTGGTCCATACACAGAGACCCAGTCAATTTGGGAGA  
 AGCCAGACGACTTCTGTCTCATCGATTCTGGATGACCAGGGACAACCTTTGAAAAGAGAAACGTTTAT  
 CCCTTTTGGGATAGGGAAGCGGGTGTGTATGGGAGAGCAGCTGGCCAAGATGGAGCTATTCCTGATGTTT  
 GTGAGCCTGATGCAGAGTTTACCTTTGCTTTACCTGAGGGCTCCGAGAAGCCCATCATGACCGGCAGAT  
 TTGGTCTAACATTGGCCCCACATCCCTTAATGTAACCGTCTCAAAGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209549 representing NM\_001024779  
 Red=Cloning site Green=Tags(s)

MSSIGGLRPAAGEQPGVGPLQAVGGALLLCLAVLLDWVWLQRQRAGGIPPGPKPRPLVGNFGYLLLP  
 FLRLHFWLGSQSQTDTVGRHVYLARLARVYGNIFSFYIGHRLVVVLSDFQSVREALVQQAIEVFSRPRMP  
 LISILTKEKGIIVFAHYGPIWKQRRFSHTLRHFGLGKLSLEPRIIEEFAYVKAEMQKHGEAPFSPFPVI  
 SNAVSNIIICSLCFGQRFDYTNKEFKKVLDFMSRGLIICLHSQLFLINLCPWFYLLPFGPFKELRQIERDI  
 TCFLNIIKEHQESLDANNPQDFIDMYLLHTQEEKDKCKGTNFDYLFYIIGDLFIAGTDTTNSLLWC  
 LLYMSLNPVQKKVHEEIERVIGRDRAPSLTDKAQMPYTEATIMEVQRLSMVVPLAIPHMTSEKTVLQGY  
 SIPKGTVVLPNLWSIHRDPVIWEKPDDFCPHRFLDDQGQLLKRETFIPFGIGKRVCMGEQLAKMELFLMF  
 VSLMQSFTFALPEGSEKPIMTGRFGLTLAPHPFNVTVSKR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

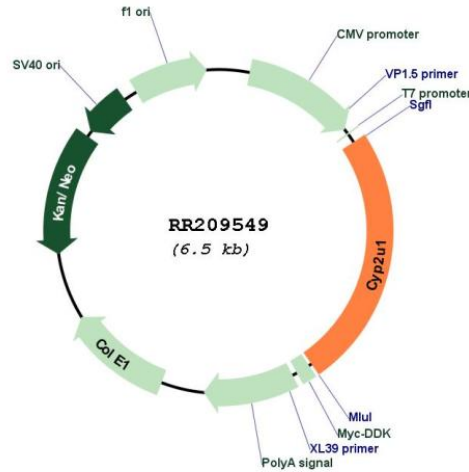
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001024779

ORF Size: 1590 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\\_001024779.1](#), [NP\\_001019950.1](#)

**RefSeq Size:** 2154 bp

**RefSeq ORF:** 1593 bp

**Locus ID:** 310848

**UniProt ID:** [Q4V8D1](#)

**Cytogenetics:** 2q43

**MW:** 60.4 kDa

**Gene Summary:** Catalyzes the hydroxylation of arachidonic acid, docosahexaenoic acid and other long chain fatty acids. May modulate the arachidonic acid signaling pathway and play a role in other fatty acid signaling processes (By similarity).[UniProtKB/Swiss-Prot Function]