

Product datasheet for **MR217710**

Cyp2u1 (NM_027816) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2u1 (NM_027816) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp2u1
Synonyms:	8430436A10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR217710 representing NM_027816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTCGTCTCGGGACCAGCGTCCCAGCGGCAGGGGAGCAGCCGGGAGCTAGACTGCACGTGCGGGCGA
 CAGGAGGCGCGCTGCTACTTTGCCTGCTGGCGGTGCTGCTAGGCTGGGTTTGGCTGCGGGCGCAACGCGC
 CTGCGGCATCCCTCCGGGCCCAAGCCTCGGCCACTCGTGGGTAACCTCGGGCACTTGTGGTGCCGCGC
 TTTCTACGACCGCAGTTCTGGCTGGGCTCGGGCAGCCAGACGGACACGGTGGGCCAGCATGTGTACTGG
 CCAGGATGGCCCGTGTCTATGGCAACATCTTCAGCTTCTTCATCGGCCACCGTCTGGTGGTGGTCTCAG
 CGACTTCCACAGCGTGCAGGAGCGCTAGTGCAGCAGGCTGAAGTGTTCAGTGACCGCCCGGGATGCCG
 CTCATCTCCATCATGACCAAGGAGAAGGAATCGTGTTCGACACTATGGTCCAATTTGAAACAGCAGA
 GGAGATTCTCCACTCGACGCTTCGTATTTCCGGTCTGGGCAAGCTCAGCCTGGAGCCAGGATCATCGA
 GGAGTTTGATACGTGAAAGAAGCCATGCAGAAGCACGGGGAGGCCCTTCAGCCCTTCCAATCATC
 AGCAATGCCGTCTCCAACATCATCTGCTCCCTGTGCTTCGGCCAGCGCTTCGATTACACCAACAAGGAGT
 TAAAAAGGTGTTGGATTCATGTCCCAGGGGTTGAAATCTGCCTGCACAGCCAGCTCTTCTGATCAA
 CATATGCCCTGGTTTTACTACCTCCCCTTTGGTCCATTAAGGAGCTAAGGCAAATCGAAAGGGACATA
 TCCTGCTTCTGAAAAACATCATCCGAGAGCATCAAGAGTCTCTGGATGCCAGCAACCTCAGGACTTCA
 TAGACATGTACCTTCTGCACATGGAGGAAGAGCAGGGAGCCAGCAGGCGCAGCAGCTTCGACGAGGACTA
 CCTGTTTACATCATTGGGGACCTTTCATCGCCGGCACTGACACCAGCAACTCTCTGCTCTGGTGC
 CTGCTGTACATGCTACTGAACCCCGACGTGCAAAAAAGGTTTCATGAAGAAATGAAAGGGTCATTGGCT
 GTGACCGTGCACCTTCCCTCACGACAAGGCCAGATGCCATACACAGAGGCCACCATCATGGAGGTGCA
 GCGGCTGTCCATGGTGGTCCGCTCGCCATTCTCACATGACCTCGGAGAAAACAGTCTCCAAGGGTTC
 ACCATTCCCAAAGGCACAGTGGTCTAATCAACCTGTGGTCACTACAGAGACCCAGCCATCTGGGAGA
 AGCCAGACGACTTCTGTCTCATCGATTCTGGATGACCAAGGACAACCTTTGAAAAGAGAACTTTTAT
 TCCTTTTGGGATAGGGAAGCGGGTGTGTATGGGAGAGCAGCTGGCCAAGATGGAGTTATTCTGATGTT
 GTGAGCCTGATGCAGACTTTCACCTTTCGCTTACCTGAGGTTCCGAGAAGCCTGTCATGACTGGGAGAT
 TTGGTCTAACACTGGCCCGCACCTTTAATGTAACCATCTCAAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217710 representing NM_027816
 Red=Cloning site Green=Tags(s)

MSSLDQRPAAEQPGARLHVRATGGALLLCLLAVLLGWVWLRQRACGIPPGPKPRPLVGNFGHLLVPR
 FLRPQFWLGSGSQTDTVGQHVYLARMARVYGNIFSFFIGHRLVVVLSDFHSVREALVQQAQEVFSDRPRMP
 LISIMTKEKGI VFAHYGPIWKQRRF SHSTLRHFGLGKLSLEPRIIEEFAYVKEAMQKHGEAPFSPFPII
 SNAVSNIICSLCFGRFDYTNKEFKKVLDFMSRGLIICLHSQLFLINICPWFYLPFGPFKELRQIERDI
 SCFLKNIIREHQESLDASNPQDFIDMYLLHMEEEQASRRSSFDEDFYIIGDLFIAGTDTTNSLLWC
 LLYMSLNPDVQKKVHEEIERVIGCDRAPSLTDKAQMPYTEATIMEVQRLSMVVPLAIPHMTSEKTVLQGF
 TIPKGTVVLINLWSVHRDPAIWEKPDDFCPHRFLDDQQLLKRETFIPFGIGKRVCMGEQLAKMELFLMF
 VSLMQTFTFALPEGSEKPVMTGRFGLTLAPHPFNVTISKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

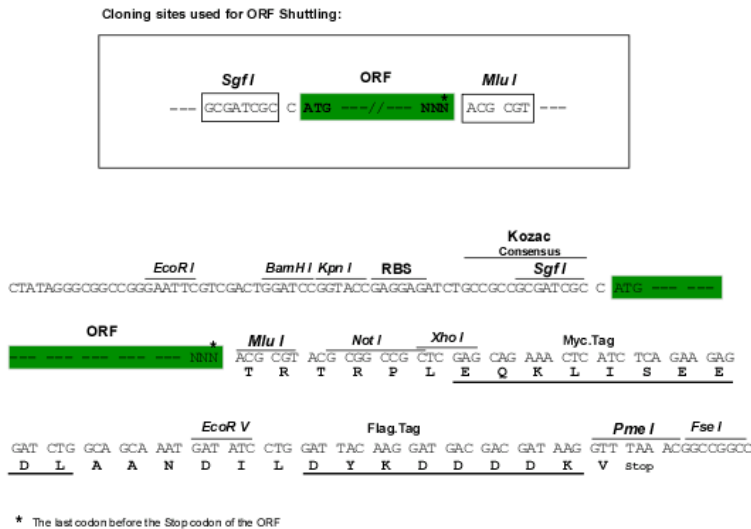
Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_g06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_027816

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_027816.3](#), [NP_082092.2](#)

RefSeq Size: 2331 bp

RefSeq ORF: 1593 bp

Locus ID: 71519

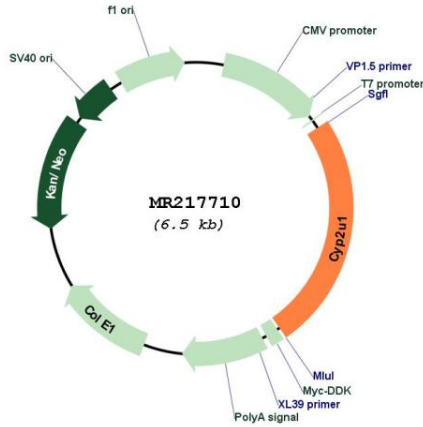
UniProt ID: [Q9CX98](#)

Cytogenetics: 3 G3

MW: 61 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]

Product images:



Circular map for MR217710