

## Product datasheet for **MG217710**

### **Cyp2u1 (NM\_027816) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp2u1 (NM_027816) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp2u1
Synonyms:	8430436A10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217710 representing NM\_027816  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCTCGTCTCGGGACCAGCGTCCCGGGCAGGGGAGCAGCCGGGAGCTAGACTGCACGTGCGGGCGA  
 CAGGAGGCGCGTCTACTTTGCCTGCTGGCGGTGCTGCTAGGCTGGGTTTGGCTGCGGGCGCAACGCGC  
 CTGCGGCATCCCTCCGGGCCAAAGCCTCGGCCACTCGTGGGTAACCTCGGGCACTTGTGGTGCCGCGC  
 TTTCTACGACCGCAGTTCTGGCTGGGCTCGGGCAGCCAGACGGACACGGTGGGCCAGCATGTGTACTGG  
 CCAGGATGGCCCGTGTCTATGGCAACATCTTCAGCTTCTTCATCGGCCACCGTCTGGTGGTGGTCTCAG  
 CGACTTCCACAGCGTGCAGGAGGCGCTAGTGCAGCAGGCTGAAGTGTTCAGTGACCGCCCGCGGATGCCG  
 CTCATCTCCATCATGACCAAGGAGAAGGAATCGTGTTCGACACTATGGTCCAATTTGAAACAGCAGA  
 GGAGATTCTCCACTCGACGCTTCGTATTTCCGGTCTGGGCAAGCTCAGCCTGGAGCCAGGATCATCGA  
 GGAGTTTGATACGTGAAAGAAGCCATGCAGAAGCACGGGGAGGCCCTTCAGCCCTTCCAATCATC  
 AGCAATGCCGTCTCCAACATCATCTGCTCCCTGTGCTTCGGCCAGCGCTTCGATTACACCAACAAGGAGT  
 TAAAAAGGTGTTGGATTCATGTCCCGGGGTTGAAATCTGCCTGCACAGCCAGCTCTTCTGATCAA  
 CATATGCCCTGGTTTTACTACCTCCCCTTTGGTCCATTAAGGAGCTAAGGCAAATCGAAAGGGACATA  
 TCCTGCTTCTGAAAAACATCATCCGAGAGCATCAAGAGTCTCTGGATGCCAGCAACCCTCAGGACTTCA  
 TAGACATGTACCTTCTGCACATGGAGGAAGAGCAGGGAGCCAGCAGGCGCAGCAGCTTCGACGAGGACTA  
 CCTGTTTACATCATTGGGGACCTTTCATCGCCGGCAGTACACCACGACCAACTCTCTGCTCTGGTGC  
 CTGCTGTACATGTCAGTGAACCCGACGTGCAAAAAAGGTTTCATGAAGAAATGAAAGGGTCATTGGCT  
 GTGACCGTGCACCTTCCCTCACGGACAAGGCCAGATGCCATACACAGAGGCCACCATCATGGAGGTGCA  
 CGGGCTGTCCATGGTGGTCCGCTCGCCATTCTCACATGACCTCGGAGAAAACAGTCTCCAAGGGTTC  
 ACCATTCCCAAAGGCACAGTGGTCTAATCAACCTGTGGTTCAGTACACAGAGACCCAGCCATCTGGGAGA  
 AGCCAGACGACTTCTGTCTCATCGATTCTGGATGACCAAGGACAACCTTTGAAAAGAGAACTTTTAT  
 TCCTTTTGGGATAGGGAAGCGGGTGTGTATGGGAGAGCAGCTGGCCAAGATGGAGTTATTCTGATGTT  
 GTGAGCCTGATGCAGACTTTCACCTTTCGCTTACCTGAGGTTCCGAGAAGCCTGTCATGACTGGGAGAT  
 TTGGTCTAACACTGGCCCGCACCTTTAATGTAACCATCTCAAAGAGA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG217710 representing NM\_027816  
 Red=Cloning site Green=Tags(s)

MSSLDQRPAAEQPGARLHVRATGGALLLCLLAVLLGWVWLRQRACGIPPGPKPRPLVGNFGLHLLVPR  
 FLRPQFWLGSQSQTDTVGQHVYLARMARVYGNIFSFFIGHRLVVVLSDFHSVREALVQAEVFSRPRMP  
 LISIMTKEKGI VFAHYGPIWKQRRFSHSTLRHFGLGKLSLEPRIIEEFAYVKEAMQKHGEAPFSPFPII  
 SNAVSNIICSLCFGRFDYTNKEFKKVLDFMSRGLIICLHSQFLINICPWFYLLPFGPFKELRQIERDI  
 SCFLKNIIREHQESLDASNPQDFIDMYLLHMEEEQASRRSSFDEDFLYIIGDLFIAGTDTTNSLLWC  
 LLYMSLNPDVQKKVHEEIERVIGCDRAPSLTDKAQMPYTEATIMEVQRLSMVVPLAIPHMTSEKTVLQGF  
 TIPKGTVVLINLWSVHRDPAIWEKPDDFCPHRFLDDQQLKRETFIPFGIGKRVCMGEQLAKMELFLMF  
 VSLMQTFTFALPEGSEKPVMTGRFGLTLAPHPFNVTISKR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

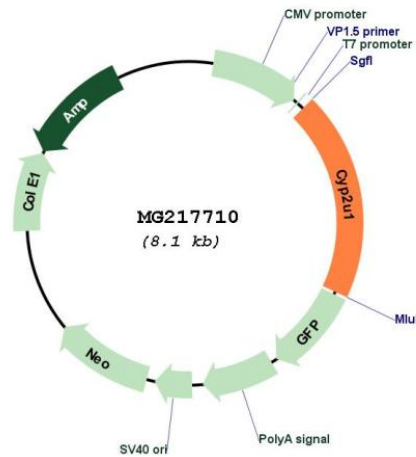
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_027816
<b>ORF Size:</b>	1590 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_027816.3</a> , <a href="#">NP_082092.2</a>
<b>RefSeq Size:</b>	2331 bp
<b>RefSeq ORF:</b>	1593 bp
<b>Locus ID:</b>	71519
<b>UniProt ID:</b>	<a href="#">Q9CX98</a>
<b>Cytogenetics:</b>	3 G3
<b>Gene Summary:</b>	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]