

## Product datasheet for **MG216004**

### **Cyp2c40 (NM\_010004) Mouse Tagged ORF Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Cyp2c40
<b>Synonyms:</b>	A1265721; A1662255
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



**ORF Nucleotide Sequence:** >MG216004 representing NM\_010004  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCCAAACGCAAAATATTGATTTGCGAATGCTGTATAAAGTGTCTGGAGTGCCTGATCATACCAAGTGT  
 CAGTAAGAAGGGTCTCCATGGATCCATTTGTAGTCTTGGTGCCTTTGTCTCCTTTCTGCTTGTCCCTGTG  
 ATTGTGGAGACAGAGATCTGCAAGAGGGAACCTCCCTCTGGCCCTACTCCTCTCCCAATTATTGGAAAT  
 TACCACCTGATAGATATGAAGGACATTGGGCAGTGCCTTACCAATTTTTCTAAAACATATGGCCCTGTGT  
 TCACCTCTGATTTTGGCTCACAGCCTATTGTGGTATTACATGGTTATGAGGCAATTAAGAAGCCCTCAT  
 TGACCATGGAGAAGAGTTCTCTGGAAGAGGAAGGATTCCGGTTTTTGACAAGGTTTTCTACAGGAAAAGGGC  
 ATTGTTTTAGCCATGAAATGTATGAAAAGCCACAAGGGTCTTCACAGTGAATACCTTGAGGAACTTGG  
 GCATGGGAAAAGGACCATTGAGAACAAAGTGCAAGAGGAAGCACAGTGGCTCATGAAGGAACTGAAGAA  
 AACAAATGGCTCACCTGTGATCCCAATTCATCATAGGATGTGCTCCCTGCAATGTCATCTGCTCCATT  
 GTTTCCAGAAATCGTTTCGATTATAAGGATAAGGATTTTCTTAGCTTGATAGGAAAAGTGAATGAATGCA  
 CTGAAATTTGAGCTCTCTGGGTGTCAGATTTTCAATGCAGTCCCTATTCTTATTGATTATTGTCCAGG  
 AAGTCATAATAAATTTTTAAAAATCATACATGGATTAAGAGCTATCTTTTGGGAAAAATAAAGAACAT  
 GAAGAATCATTGGATGTTACAAATCCTCGGGACTTCATTGATTACTTCCTAATCAAGACGTCAGAAAA  
 ATGGCATTGAGCACATGGACTATACCATGAAACCTGGCAACATTGGTGACTGATCTGGTTTTTGGTGG  
 GACAGAGACCTTAAGCTCAACGATGAGATTTGCTCTCTGCTCTTGATGAAGCACACACATCACAGCT  
 AAAGTCCAGGAAGAGATTGACAATGTGATTGGGAGACACCGCAGCCCTGTATGCAGGACAGGAACCACA  
 TGCCTTACACAAATGCCATGGTGCATGAGGTCCAGCGGTACATTGACCTTGGCCCAATGGTGTGGTGA  
 TGAAGTAACTGTGACACTAAGTTCAGAACTACTTATCCCAAGGGAACACAGGTAATGACATCACTG  
 ACATCAGTGTGATGACAGCACGGAGTCCCCAACCCAGAGGTGTTTGACCCTGGCCACTTTCTAGATG  
 ACAATGGAAACTTTAAGAAAAGTGACTACTTCTGTCCTTTCTCAGCAGGAAAACGGATTTGTGTGGGAGA  
 GAGCCTTGCCCGCATGGAGCTGTTTCTATTCCTGACCACCATTTTACAGAAATTTCAAACCTGAACTCTG  
 GTTGATCCAAAGGACATCGATATGACCCCAAAACATTCTGGATTTTCTAAAATTCCTCCCAATTTCCAGA  
 TGTGCTTTATCCCTGTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

**Protein Sequence:** >MG216004 representing NM\_010004  
 Red=Cloning site Green=Tags(s)

MPKRKILICECCIKCLECLIIPVSVRRVSMDFVVLVLCLSFLLVLSLWRQRSARGNLPGPPTPLPIIGN  
 YHLIDMKDIGQCLTNFSKTYGPVFTLYFGSQPIVVLHGYEAIKEALIDHGEEFSGRGRIPVFDKSTGKG  
 IGFSHGNVWKATRVFTVNTLRNLGMKRTIENKVQEEAQWLMKELKKTNGSPCDPQFIIGCAPCNVICSI  
 VFQNRFDYKDKDFLSLIGKVNECTEILSSPGCQIFNAVPILIDYCPGSHNKLKFNHTWIKSYLLGKIKEH  
 EESLVDTNPRDFIDYFLIQRRQKNGIEHMDYTIHLATLVTDLVFGGTELSSTMRFALLLLMKHHTITA  
 KVQEEIDNVI GRHRSPCMQDRNHMPYTNAMVHEVQRYIDLGPNGVVHEVTCDTKFRNYFIPKGTQVMTSL  
 TSVLHDSTEFNPEVFDPGHFLDDNGNFKSDYFVPFSAGKRICVGESLARMELFLFLTILQNFKLPKPL  
 VDPKIDMTPKHSGFSKIPPNFQMCFIPVE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_010004

**ORF Size:** 1560 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_010004.2](#), [NP\\_034134.2](#)

**RefSeq Size:** 1811 bp

**RefSeq ORF:** 1563 bp

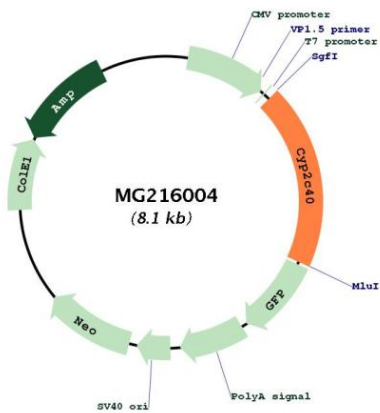
**Locus ID:** 13099

**UniProt ID:** [P56657](#)

**Cytogenetics:** 19 C3

**Gene Summary:** Metabolizes arachidonic acid to produce an unidentified metabolite that coelutes with 16-,17-, and 18-hydroxyeicosatetraenoic acid (HETE).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG216004