

Product datasheet for **MC216891**

Cyp2c23 (NM_001001446) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2c23 (NM_001001446) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp2c23
Synonyms:	AW107714; b2b386Clo; BC034834; Cyp2c44
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216891 representing NM_001001446
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTGCTGGGTCTCCCTACGTTGCTCTCCTGGTTTTGGTGATGTCCCTCAGCCTCCTTTTCAGTGT
 GGACAAAATGCGCACTGGGGGAGACTGCCCCCTGGCCCACTCCACTTCCATTATTGGGAATACT
 GCAATTGGACCTCAAAGACATCCCTGCATCGCTTCCAAAGCTGGCCAAAGAGTATGGGCCTGTTTCACT
 CTGTACTTTGGATCCTGGCCTACCGTGGTCTACATGGCTATGATGTGGTGAAGGAAGCGCTACTCAATC
 AAGGTGATGAGTTCCTTGGGAGAGGACCTCGCCATTATCGAAGATAGCCAGAAGGGACATGGAATTGT
 TTTTCAGTGAAGGAGAGAGGTGAAACTCCTGCGACGCTTCTCCCTCATGACGCTGAAGAACTTCGGAATG
 GGAAGAGAAGCCTAGAGGAGAGGGTGCAGGAGGAAGCCCGTGCCTCGTGGAGGAGTTACATAAAACAG
 AAGCTCAGCCCTTGACCCACCTTCATCCTGGCCTGTGCTCCCTGCAACGTGATCTGCTCCATCCTTTT
 CAACGAGCGATTCCCATACAATGACAAGACATTCCTCAACCTCATGGACTTTTAAATAAAAATTTTAC
 CAACTGAACTCTATATGGATCCAGATGTACAACCTATGGCCGACGATCATGAAGTACATACCTGGAAAGC
 ATAGAGAATTCTCAAAAAGGCTTGGTGGTGTAAAAAATTCATCCTAGAAAAAGTGAAGGAGCACCAGGA
 GTCCCTGGACCCCGCAACCCTCGGGATTACATCGACTGTTTCCTCAGCAAGATCGAGGAGGAGAAACAC
 AACCTGAAATCTGATTTAATCTGGAGAATTTGGCCATCTGTGGGTCTAACTTGTTCACGGCAGGCACAG
 AGACAACCAGCACCCTGAGATTCGGGCTTCTGCTCCTGTCAAGCATCCAGAGGTGCAAGCCAAAGT
 TCATGAAGAACTTGATCGTGTGATTGGACGCCACCAACCCCCAGCATGAAGGACAAGATGAAGCTGCC
 TATACAGATGCCGTGCTGCATGAGATTCAAAGATACATCACTCTCCTTCTTAGTCTGCCCATGCTG
 TGGTCCAGGACACAAAATTCAGACACTATGTCATCCCCAAGGGCACCGCTGTGTTCCCGTTCTGTCTTC
 CATCTTGTGGATCAAAAAGGAGTTTCCCAACCCAGAGAAGTTTGATCCAGGACACTTCTGGATAAAAAT
 GGCTGTTCAAGAAAACAGACTACTTTGTTCTTCTCCCTCGGGAAGCGATCCTGTGTTGGCGAGGGTT
 TGGCCCGCATGGAGCTTCTCCTGTTCTTACCCTATCCTGCAAAAATTTTCCCTAAAGGCTCTGGTGA
 GCCAAAGGACCTTGATATCAAGCCTGTTACTACTGGGCTTTTCAACTTGCCACCGCCTTACAAGCTGCGC
 CTTGTTCCAAGATAG

ACGGTACGGCGCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001001446

Insert Size: 1485 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001001446.3](#), [NP_001001446.3](#)

RefSeq Size: 1964 bp

RefSeq ORF: 1485 bp

Locus ID: 226143

UniProt ID: [E9Q5K4](#)

Cytogenetics: 19 C3

Gene Summary: A cytochrome P450 monooxygenase involved in polyunsaturated fatty acids (PUFAs) metabolism and signaling (PubMed:15084647). Catalyzes preferentially the epoxidation of double bonds of PUFAs (PubMed:15084647). Converts arachidonic acid primarily to stereospecific products (8R,9S)-epoxyeicosatrienoate (EET) and (11R,12S)-EET (PubMed:15084647). Via EETs may inhibit the epithelial sodium channels in nephron segments, leading to increased sodium excretion and stable systemic blood pressure (PubMed:24966089, PubMed:24368771). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:15084647).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.