

Product datasheet for **MC217494**

Cyp4v3 (NM_133969) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4v3 (NM_133969) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp4v3
Synonyms:	AU043077; AW111961; Cyp4v2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217494 representing NM_133969
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGTGGCTGTGGTTAGGGCTCAGTGGCAGAACTATTGCTTTGGGCGCAGCGAGCGCGTCTCCC
TGGCCGGCGCCACTATCCTGATCAGCATCTTCCGATGCTGGTAAGCTACGCGCGAAATGGCAGCAGAT
CGGGTCAATCCCCTCGGTGGCCCGCCCTACCCCTTGGTGGGACACGCGCTTTATATGAAGCCCAACAAC
GCAGAATTTTTTCAGCAGCTAATTTATTACACAGAAGAATTCGACACCTGCCGATCATTAACTTTGGA
TTGGACCCGTGCCCTGGTGGCACTTTATAAGGCAGAGAATGTGGAGGTGATTTTGACCAGTTCTAAGCA
AATTGATAAATCGTTTTTGTACAAGTTCCTACAGCCATGGCTGGGACTAGGACTTCTTACAAGTACGGGG
AGCAAATGGCGCACCAGGAGGAAGATGCTAACGCCACTTTCCATTTTACCATTCTGGAGAACTTCTTG
ATGTCATGAATGAGCAAGCAAATATATTGGTTAATAAGCTTGAAAACACGTCAACCAAGAAGCCTTTAA
TTGTTTTTTTTACATCACTCTTTGTGCTCTGGATATAATCTGTGAAACGGCTATGGGGAAGAATCGGA
GCTCAAAGCAATAATGATTCCGAGTATGTCCGTACAGTGTATAGGATGAGTGATATGATATATAGAAGAA
TGAAGATGCCCTGGCTTTGGTTTGACCTTTGGTACCTTGTGTTTAAAGAAGGACGGGACCACAAAAGGGG
ACTCAAATGCCTACATACTTTCACCAACAATGTCATTGCTGAACGAGTCAAAGAAAGGAAGGCAGAGGAA
GACTGGACGGGTGCTGGCAGGGTCTATCCCCTCCAAAATAAGCGCAAGGCTTTCCTTGACTTGCTTT
TGAGTGTGACTGATGAGGAAGGAAACAGATTAAGCCAGGAAGACATCCGAGAGGAAGTTGACACCTTCAT
GTTTGAGGGTACGATACAACGCTGCTGCAATCACTGGTCTTATACCTATTGGGCACGAATCCAGAA
GTCCAGAGGAAAGTGGATCAGGAGCTGGATGAAGTGTGGGAAGATCCCATCGTCTGTACCTTGGGAA
ACCTGAAGAAAATTAATATTTGGATTGGCTCATTAAAGGAGACTCCGAGTTTTCCCATCTGCCCTTT
ATTTGCCCGAGTCTTAGCGAGGACTGTGAAGTGGCGGTTACAAAGTCAAAAAGGAACGGAAGCAATC
ATCATTCCCTACGCACTACACCGAGACCCAGATACTTCCAGATCCAGAGGAATCCGACCAGAGCGGT
TCTTCTGAAAATCCCAAGGACGCCATCCCTATGCCTATGTGCCATTTTCTGCTGGACCTCGAAACTG
TATTGGTCAAAGTTTGTGCTGATGGAGGAGAAGACCTTCTGCCTGTATCCTGAGGCAGTTTTGGGTA
GAATCCAACCAGAAGAGAGAAGAACTCGGCCTGGCTGGAGATTTGATTCTTAGGCCAAATAATGGCATCT
GGATCAAGCTGAAGAGGAGACATGAAGATGACCCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_133969

Insert Size: 1578 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_133969.2](#), [NP_598730.1](#)

RefSeq Size: 2930 bp

RefSeq ORF: 1578 bp

Locus ID: 102294

UniProt ID: [Q9DBW0](#)

Cytogenetics: 8 B1.1

Gene Summary: Omega-hydroxylase that oxidizes medium-chain saturated fatty acids and polyunsaturated omega-3 fatty acids, and which plays a role in fatty acid and steroid metabolism in the eye. Catalyzes the omega-hydroxylation of medium-chain saturated fatty acids such as laurate, myristate and palmitate in an NADPH-dependent pathway. The substrate specificity is higher for myristate > laurate > palmitate (C14>C16>C12). Acts as a polyunsaturated omega-3 fatty acids hydroxylase by mediating oxidation of docosahexaenoate (DHA) to 22-hydroxydocosahexaenoate. Also produces some 21-hydroxydocosahexaenoate. Also converts eicosapentaenoate (EPA) to 20-hydroxyeicosapentaenoate (20-OH-EPA).[UniProtKB/Swiss-Prot Function]