

Product datasheet for **MR218732**

Cyp2c50 (NM_001167875) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2c50 (NM_001167875) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp2c50
Synonyms:	AI266900
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218732 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCAATCCTGGTCTGGTGTTCACCTCTCCTGTCTGTTTCTCCTCTCACTCTGGAGACAGAGCT
 CTGAAAGGGGGAAGCTCCCTCCTGGCCCCACTCCTCTTCCAATTATTGGAAATATCCTTCAGATCAATGT
 GAAGGACATCTGCCAATCCTTCACCAATTTATCAAAAGTTTATGGCCCTGTGTATACTCTATATTTGGGC
 AGGAAGCCCACTGTGGTGTTCATGGATATGAGGCAGTGAAGGAAGCTCTGGTTGACCATGGGGAGGAGT
 TTGCTGGAAGAGGAAGGCTCCAGTTTTTGATAAAGCTACTAATGGAATGGGCATTATATTTAGTAAAGG
 AAATGTATGGAACACAAGGCGCTTCTCACTCACGACTCTGCGGAATTTAGGCATGGGAAAAAGGAGC
 ATTGAGGACCGTGTTCAGAGGAAGCACGTTGCCTTGAGGAGAACTTAGGAAAACCAATGGCTCACCT
 GTGATCCACCTTCATCCTGGGCTGTGCTCCCTGCAATGTCATCTGCTCAATTATTTCCAGGATCGTTT
 TGATTATAAGATCGGGATTTTCTTAATTTGATGAAAACTGAATGAAATAACCAAGATAATGAGCACC
 CCTTGTTGTCAGGAAAACGGCAACTATCCATTGAAAAATAGGCTTGAACACCTGGCAATAACAGTACTG
 ATCTTTTTTCTGCTGGGACAGAGACAACAGCACAACTGAGATATGCTCTCCTACTCCTGTTGAAGTA
 CCCACATGTCACAGCTAAAGTCCAGGAAGAAATGAGCATGTGATCGGCAAGCACCAGACCATGCATG
 CAGGACAGGAGCCACATGCCCTATACTGATGCCATGATTCATGAGGTCCAGAGATTCATTGACCTTGTC
 CCAACAGCCTGCCCCATGAAGTGACCTGTGACATTAAATTCAGGAACACTTCATCCCCAAGGGGACAAA
 TGTAATAACATCACTGTCATCAGTGTGCGTGATAGCAAAGAGTCCCAACCCAGAGAAGTTTGACCCT
 GGGCATTCTAGATGAGAACGGAAAGTTAAGAAAAGTGACTACTTCATGCCCTTCTCAACAGGAAAAAC
 GGATATGTGCAGGAGAAGGCCTGGCACGCATGGAGCTGTTCTATTCTAACCAGCATTTTACAGAACTT
 CAACCTGAAACCTCTGGTTCACCCAAGGACATAGATGTAACCCAATGCTCATTGGATTGGCCTCAGTG
 CCTCTGCTTTCAGCTCTGCTTATTCCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218732 protein sequence
 Red=Cloning site Green=Tags(s)

MDPILVLVFTLSCLFLLSLWRQSSERGLPPGPTPLPIIGNILQINVKDICSFTNLSKVYGPVYTYLG
 RKPTVVLHGYEAVKEALVDHGEFAGRGRLPVFDKATNGMGIIFSKGNVWKNTRRFSLTTLRNLGMGKRS
 IEDRVQEEARCLVEELRKTNGSPCDPTFILGCAPCNVICSIIQDRFDYKDRDFLNLMEKLEITKIMST
 PWLQENGNYPLKNRLEHLAITVDLFSAGTETTSTTLRYALLLLKYPHVTAKVQEEIEHVIGKRRPC
 QDRSHMPYTDAMIHEVQRFIDLPNSLPHEVTCDIKFRNYFIPKGTNVITSLSSVLRDSKEFPNPEKFD
 GHFLDENGKFKSDYFMPFSTGKRICAGEGLARMELFLFTSILQNFNLKPLVHPKDIDVTPMLIGLASV
 PPAFQLCFIPS

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001167875

ORF Size: 1293 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_001167875.1](#), [NP_001161347.1](#)

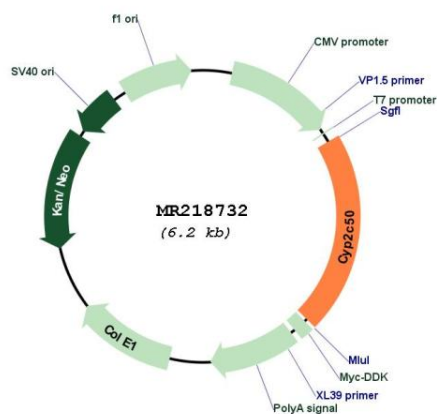
RefSeq Size: 1657 bp

RefSeq ORF: 1296 bp

Locus ID: 107141

UniProt ID: Q91X77
Cytogenetics: 19 C3
MW: 48.9 kDa
Gene Summary: Metabolizes arachidonic acid to several midchain and omega-terminal hydroxyeicosatetraenoic acids (HETE).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218732