

Product datasheet for **MR210004**

Acox2 (NM_001161667) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acox2 (NM_001161667) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acox2
Synonyms:	THCCox
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR210004 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGAACCCAGGGGATCGAGTGTCACTGGGGGAGACCTGGAGCAGGGAAGTCACCCTGACATAGACA
 GTGAAAGGCACTCCCGTCCTTCAGTGTGGAGCGGCTACCAACATCCTTGATGGAGGCATCCCAACAC
 TGAGCTGCGGAGAAGAGTTGAAAGCCTCATCCAACGTGACCCAGTGTTTAATTTGAAGCATCTTTACTTC
 ATGACCCGAGATGAGCTATATGAGGATGCGATTCAAAGAGATTCCATCTTGAGAAGCTAGCCTGGAGCC
 TGGGCTGGTCAGAAGACGGTCTGAACGCATTTATGCTGACAGAGTCTTGCTGGATATAACAACCTAAA
 CTTACATGGTATTGCCATGAATGCTATCAGAAGCCTGGGCTCAGATGAGCAGATTGCTAAATGGGGCCAA
 CTCGGCAAAAACCTCAAATCATACAACATATGCCAGACAGAGCTGGGACATGGGACATACCTGCAGG
 GCCTGGAGACCGAAGCAACCTATGATGCAACCACCCAGGAGTTTGTGATACACAGCCCTACAATGACTTC
 CATCAAGTGGTGGCCTGGGGACTTGGGACGGACAGTCACCCATGTGTGGTCTAGCCCATTTGATCTGC
 TTAGGAGCCCGCATGGCATGCATGCCTTCATTGTGCCATCCGGAGCCTAGAGGACCACACCCCACTGC
 CAGGAATAACAGTTGGGGACATAGGCCCAAGATGGGCTTCGAAAACATAGACAATGGCTTCCTGCGACT
 GAACCAGTGAGGGTTCCAGAGAGAACATGCTCAGTCGCTTTGCAGAGGTCTTGCCAGATGGCACCTAC
 CAGAGGCTTGGGACACCAGAGCAATTATCTTGGCATGTTGGTGACACGGGTGCAGTGTGTATAAAG
 GATTCCTACCCACCTCCAGAAGGCTTGCAACATTGCTGTGCGCTACGCGTAATCCGCCACCAAGTCTCG
 TCTTCGGCCTAGTACCCAGAGGCAAAAATCCTGGAATACCAGACACAGCAGCAGAAACTCCTGCCTCAG
 CTTGCTGTGAGCTATGCCTTGCATTTATGACCACAGCCTCTTACAATCTTCCACAGCTCCTACAGTG
 ATATTCTGAAGAGAGACTTCAGCCTCCTGCCTGAGCTCCATGCACTGAGCACTGGCATGAAGCCATGTC
 TTCAGACTTCTGTGCCAGGGAACAGAGATCTGCCGACAGGCTGCGGGGGTCTGGCTACTCAAAGCTG
 AGCGGCCTACCGACTGGTCACTCAAGCGATAGCCTCTTGCACGTATGAGGGTGAGAATACGGTGTCTCT
 ACCTGCAAGTGGCCAGGTTTCTGATGAAGAGCTACCTGCAGGCTCAAGTGTCCCAAGATCCATACCACA
 GAAGCCTCTCCCTCAGTCCGTATGTATCTCGCCACACCAAGACCAGCCAGGTGCCAGCCAGACAGCA
 GCTGACTTCCGCTGCCAGAACTATACCACAGCCTGGGCATATGTGTCTGCCAGGCTCATAAGAGATG
 CAACACAGCATAACAGACCCTCATGATCCGGGTTGACCAGTACGATGCTTGAACCAAGACTTCTGT
 CATAACCTTCAGGCTGCTAAGGCTCACTGCTACTTCTCACTGTGAGGAATTTCAAGGAAGCTGTGGAG
 AAAGTAGACAACGAACCAAGAGATTTCAGCGTGTGCTTCAGAACCTCTGTGACCTCTATGCCTAAACGGTA
 TTCTGACTAACTCAGGGGACTTTCTGCATGATGGCTTCCTGTCTGGGGCCCAAGTGGACATGGCAAGAAC
 AGCCTTCCTAGACCTGCTTCCCTTGATCCGGAAGGACGCCATCTTGTTAACAGATGCTTTTGACTTCTCG
 GACCATTGTTAAACTCTGCACTTGGCTGTTATGACGGACACGTCTACCAACGCCTGTTTGAGTGGGCTC
 AGAAGTCCCAGCCAATACTCAGGAGAACCCTGCCTATAAGAAGTATATTAGACCACTGATGCAAGCTG
 GAAACCAAGCTG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210004 protein sequence
Red=Cloning site Green=Tags(s)

```

MGNPGDRVSLGETWSREVHPDIDSERHSPSF SVERL TNILDGGIPNTELRRRVESLIQRDPVFNLKHL YF
MTRDEL YEDAVQKRFHLEKLAWSL GWSEDGPERIYADRVL AGYNNLNLHGIAMNAIRSLGSDEQIAKWGQ
LGKNFQIIITTYAQTELGHGTYLQGLETEATYDATTQEFVIHSPTMTS IKWWPGLGRTVTHAVVLAHLIC
LGARHGMHAFIVPIRSL EDHTPLPGITVGDIGPKMGFENIDNGFLRLNHVRVPRENMLSRFAEVL PDGTY
QRLGTPQSNYLGMLVTRVQLLYKGFLPTLQKACTIAVRYAVIRHQSR LRPSDPEAKILEYQTQQKLLPQ
LAVSYALHFMTTSLQLFFHSSYS DILKRDFSLLPELHALSTGMKAMSSDFCAQGT EICRRACGGHGYSKL
SGLPTLVTAIASCTYEGENTVLYLQVARFLMKS YLQAQVSPGSI PQKPLPQSVMYLATPRPARCPA QTA
ADFRCPVEYTTAWAYVSARLIRDATQHTQTLMRSGVDQYDAWNQTSVIHLQA AKAHCYFLTVRNFKEAVE
KLDNEPEIQRVLQNLCDLYALNGILTNSGDFLHDGFLSGAQVDMART AFLDLLPLIRKDAILLTDAFDFS
DHCLNSALGCYDGHVYQRLFEWAQKSPANTQENPAYK KYIRPLMQSWKPKL
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001161667

ORF Size: 2046 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.

RefSeq: [NM_001161667.1](#), [NP_001155139.1](#)

RefSeq Size: 2448 bp

RefSeq ORF: 2046 bp

Locus ID: 93732

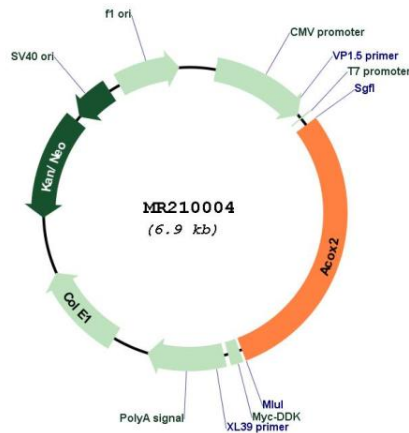
UniProt ID: [Q9QXD1](#)

Cytogenetics: 14 A1

MW: 76.9 kDa

Gene Summary: Oxidizes the CoA esters of the bile acid intermediates di- and tri-hydroxycoprostanic acids (By similarity). Capable of oxidizing short as well as long chain 2-methyl branched fatty acids (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210004