

Product datasheet for **MR217414**

Acox2 (NM_053115) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acox2 (NM_053115) 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:

>MR217414 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGGGAACCCAGGGGATCGAGTGTCACTGGGGGAGACCTGGAGCAGGGAAGTCACCCTGACATAGACA
GTGAAAGGCACTCCCGTCCTTCAGTGTGGAGCGGCTACCAACATCCTTGATGGAGGCATCCCAACAC
TGAGCTGCGGAGAAGAGTTGAAAGCCTCATCCAACGTGACCCAGTGTTTAAATTTGAAGCATCTTTACTTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR217414 protein sequence
Red=Cloning site Green=Tags(s)

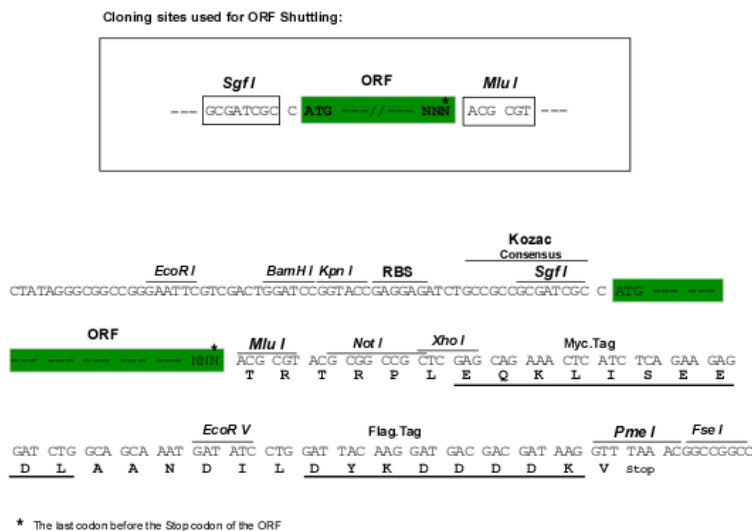
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LGKNFQIIITTYAQTELGHGTYLQGLETEATYDATTQEFVIHSPTMTS IKWWPGLGRTVTHAVVLAHLIC
LGARHGMHAFIVPIRSL EDHTPLPGITVGDIGPKMGFENIDNGFLRLNHVRVPRENMLSRFAEVL PDGTY
QRLGTPQSNYLGMLVTRVQLLYKGF LPTLQKACTI AVRYAVIRHQ SRLRPSDPEAKILEYQTQQKLLPQ
LAVSYALHFMTT SLLQFFHSSYS DILKRDF SLLPELHALSTGMKAMSSDFCAQGT EICRRACGGHGYSKL
SGLPTLV TQAIASCTYEGENTVLYLQVARFLMKS YLQAQVSPGSI PQKPLPQSVMYLATPRPARCPAQT A
ADFRCP EYVTTAWAYVSARLIRDATQHTQ TLMRSGVDQYDAWNQTSVIHLQA AKAHCYFLTVRNFKEAVE
KLDNEPEIQ RVLQNLCDLYALNGIL TNSGDFL HDGF LSGAQVDMART AFLDLLPLIRKDA ILLTDAFD FS
DHCLNSALGCYDGHVYQRLFEWAQKSPANTQENPAYK KYIRPLMQSWKPKL
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053115

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_053115.2](#), [NP_444345.2](#)

RefSeq Size: 2573 bp

RefSeq ORF: 2046 bp

Locus ID: 93732

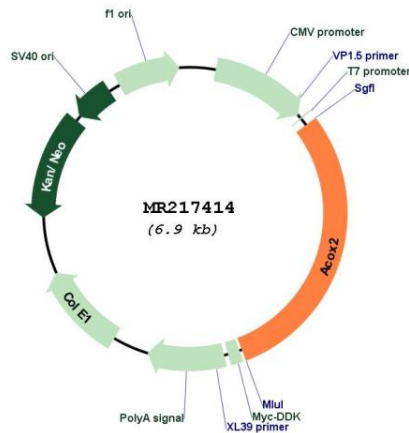
UniProt ID: [Q9QXD1](#)

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 MR217414