

Product datasheet for **MR209031**

AcsM2 (NM_146197) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	AcsM2
Synonyms:	AI315615; BC031140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209031 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCATCATCTATGAAAAATCCAAGACTTTTCACTCTCTGGGGAATGAGATTCTCGCCGTACTTTCC
 ATATGAATATCAAGAACTAATACCCATACAGTGGGGCCACCAGGAAGCACCTGCCAAGTTCAACTTCGC
 TAGTGATGTGATAGTCACTGGGCCAGCGTAGAGAAGGCTGGCAAGAGATCTTCAGGTCCAGCCCTGTGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR209031 protein sequence
 Red=Cloning site Green=Tags(s)

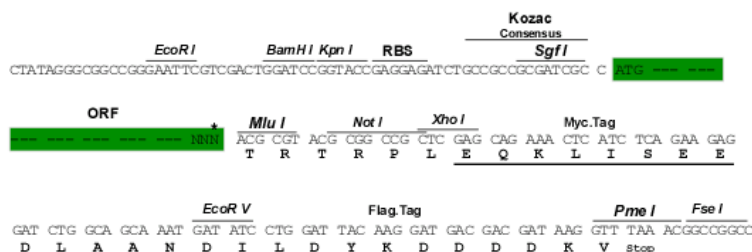
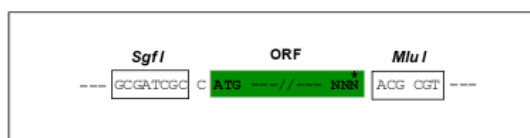
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 ESRESAAIYFTSGTSGPPKMAEHSCHSLGIKAKMDAASWTGLSTSDIWTISDTAWIMNIGAFLEPWV
 GACIFVHLLPKFDSQTVLKVLSYPINTLVGAPIIYRMLLQQDLSSYKFPHLHSCFSGGETLLPETLENW
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 IGMFSGYVDNPKKTQDNIRGDFWLMGDRGIKDPEGYFHFIGRSDDIINSSGYRIGPSEVENALMEHPAVS
 ETAVISSPDPSRGEVVKAFVVLAPFLSHDRDQLTKVLQEHVKSVTAPYKYPKRVFVLDLPKTVTGTGKIE
 RAKLRKEWKTSGRA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 146197

ORF Size: 1725 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_146197.4

RefSeq Size: 6527 bp

RefSeq ORF: 1728 bp

Locus ID: 233799

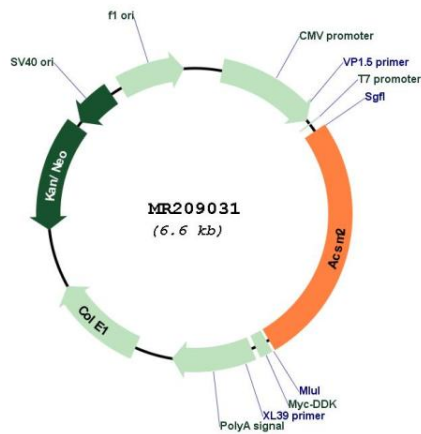
UniProt ID: [Q8K0L3](#)

Cytogenetics: 7 F2

MW: 64.3 kDa

Gene Summary: Has medium-chain fatty acid:CoA ligase activity with broad substrate specificity (in vitro). Acts on acids from C(4) to C(11) and on the corresponding 3-hydroxy- and 2,3- or 3,4-unsaturated acids (in vitro) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209031