

Product datasheet for **RC225976**

ACSM2B (NM_001105069) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM2B (NM_001105069) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSM2B
Synonyms:	ACSM2; HXMA; HYST1046
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC225976 representing NM_001105069
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATTGGCTGCGAAAAGTTCAAGGACTTTGCACCCTGTGGGTACTCAGATGTCCAGCCGCACTCTCT
 ACATTAATAGTAGGCAACTGGTGTCCCTGCAGTGGGGCCACCAGGAAGTGCCGGCCAAGTTAACTTTGC
 TAGTGATGTGTTGGATCACTGGGCTGACATGGAGAAGGCTGGCAAGCGACTCCCAAGCCAGCCCTGTGG
 TGGGTGAATGGGAAGGGGAAGGAATTAATGTGGAATTTAGAGAACTGAGTGAAAACAGCCAGCAGGCAG
 CCAACATCCTCTCGGAGCCTGTGGCTGCAGCGTGGGGATCGTGTGGCAGTGATGCTGCCCCGAGTGCC
 TGAGTGGTGGCTGGTATCCTGGGCTGCATTGAGCAGGTCTCATCTTTATGCCTGGAACCATCCAGATG
 AAATCCACTGACATACTGTATAGTTGCAGATGTCTAAGGCCAAGGCTATTGTTGCTGGGATGAAGTCA
 TCCAAGAAGTGGACACAGTGGCATCTGAATGTCCTTCTCTGAGAATTAAGCTACTGGTGTCTGAGAAAAG
 CTGCGATGGGTGGCTGAACCTCAAGAACTACTAAATGAGGCATCCACCCTCATCACTGTGTGGAGACT
 GGAAGCCAGGAAGCATCTGCCATCTACTCACTAGTGGGACCAAGTGGTCTTCCCAAGATGGCAGAACATT
 CCTACTCGAGCCTGGGCTCAAGGCCAAGATGGATGCTGGTTGGACAGGCCTGCAAGCCTCTGATATAAT
 GTGGACCATATCAGACACAGGTTGGATACTGAACATCTTGGGCTCACTTTTGAATCTTGGACATTAGGA
 GCATGCACATTTGTTTCATCTCTTGCCAAAGTTTGACCCACTGGTATTCTAAAGACACTCTCCAGTTATC
 CAATCAAGAGTATGATGGGTGCCCTATTGTTTACCGGATGTTGCTACAGCAGGATCTTCCAGTTACAA
 GTTCCCCCATCTACAGAACTGCCTCGCTGGAGGGGAGTCCCTTCTCCAGAACTCTGGAGAACTGGAGG
 GCCCAGACAGGACTGGACATCCGAGAATTCTATGGCCAGACAGAAACGGGATTAACCTGCATGGTTTCCA
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 GGCATCTTCTCTGGCTATGTGAAAAATCCGACAAGACAGCAGCCAACATTGAGGAGACTTTTGGCTCC
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 CTCCAGCGGGTACCGGATTGGACCCTCGGAGGTAGAGAATGCACTGATGAAGCACCTGCTGTGGTTGAG
 ACGGCTGTGATCAGCAGCCAGACCCCGTCCGAGGAGAGGTGGTGAAGGCATTTGTATCCTGGCCTCGC
 AGTTCCTATCCCATGACCCAGAACAGCTACCAAGGAGCTGCAGCAGCATGTGAAGTCAGTGACAGCCCC
 ATACAAGTACCAAGAAAGATAGAGTTTGTCTTGAACCTGCCAAGACTGTCACAGGAAAATTCAACGA
 ACCAAACTTCGAGACAAGGAGTGAAGATGTCCGAAAAGCCCGTGCGCAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225976 representing NM_001105069
 Red=Cloning site Green=Tags(s)

MHWLRKVQGLCTLWGTQMSSRTLYINSRQLVSLQWGHQEVPAKFNFASDVLHWADMEKAGKRLPSPALW
 WYNGKGKELMWNFRELSENSQQAANILSGACGLQRGDRVAVMLPRVPEWWLVILGCIRAGLIFMPGTIQM
 KSTDILYRLQMSKAKAIVAGDEVIQEVTVASECPSLRILKLVSEKSCDGLNFKLLNEASTTHHCVET
 GSQEASAIYFTSGTSGLPKMAEHSYSSLGLKAKMDAGWTGLQASDIMWTISDTGWILNILGSLLESWTLG
 ACTFVHLLPKFDPLVILKTLSSYPIKSMMGAPIVYRMLLQQDLSSYKFPHLQNCLAGGESLLPETLENWR
 AQTGLDIREFYGTETGLTCMVSKTMKIKPGYMGTAASCYDVQVIDDKGNVLPPTGEGDIGIRVKPIRPI
 GIFSGYVENPDKTAANIRGDFWLLGDRGIKDEGDFYQFMGRADDIINSSGYRIGPSEVENALMKHPAVVE
 TAVISSDPVRGEVVKAFVILASQFLSHDPEQLTKELQQHVKSVTAPYKYPRKIEFVLNLPKTVTKIQR
 TKLRDKEWKMSGKARAQ

TRTRPLE**QKLISEEDLA**NDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6272_c08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001105069

ORF Size: 1731 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_001105069.2](#)

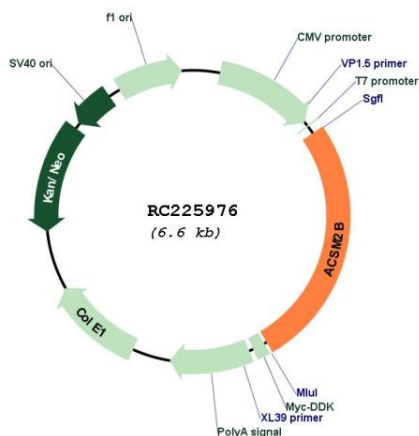
RefSeq ORF: 1734 bp

Locus ID: 348158

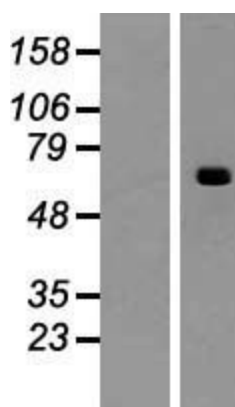
UniProt ID: [Q68CK6](#)

Cytogenetics:	16p12.3
MW:	64.1 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).[UniProtKB/Swiss-Prot Function]

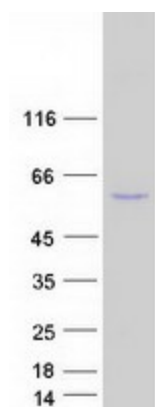
Product images:



Circular map for RC225976



Western blot validation of overexpression lysate (Cat# [LY426214]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225976 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACSM2B protein (Cat# [TP325976]). The protein was produced from HEK293T cells transfected with ACSM2B cDNA clone (Cat# RC225976) using MegaTran 2.0 (Cat# [TT210002]).