

Product datasheet for **RG225976**

ACSM2B (NM_001105069) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM2B (NM_001105069) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSM2B
Synonyms:	ACSM2; HXMA; HYST1046
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225976 representing NM_001105069
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGCATTGGCTGCGAAAAGTTCAAGGACTTTGCACCCTGTGGGTACTCAGATGTCCAGCCGCACTCTCT
 ACATTAATAGTAGGCAACTGGTGTCCCTGCAGTGGGGCCACCAGGAAGTGCCGGCCAAGTTTAACTTTGC
 TAGTGATGTGTTGGATCACTGGGCTGACATGGAGAAGGCTGGCAAGCGACTCCCAAGCCAGCCCTGTGG
 TGGGTGAATGGGAAGGGGAAGGAATTAATGTGGAATTTAGAGAACTGAGTGAAAACAGCCAGCAGGCAG
 CCAACATCCTCTCGGGAGCCTGTGGCTGCAGCGTGGGGATCGTGTGGCAGTGATGCTGCCCCGAGTGCC
 TGAGTGGTGGCTGGTGATCCTGGGCTGCATTGAGCAGGTCTCATCTTTATGCCTGGAACCATCCAGATG
 AAATCCACTGACATACTGTATAGGTTGCAGATGTCTAAGGCCAAGGCTATTGTTGCTGGGGATGAAGTCA
 TCCAAGAAGTGGACACAGTGGCATCTGAATGTCCTTCTCTGAGAATTAAGCTACTGGTGTCTGAGAAAAG
 CTGCGATGGGTGGCTGAACCTCAAGAACTACTAAATGAGGCATCCACCCTCATCACTGTGTGGAGACT
 GGAAGCCAGGAAGCATCTGCCATCTACTTCACTAGTGGGACCAAGTGGTCTTCCCAAGATGGCAGAACATT
 CCTACTCGAGCCTGGGCCTCAAGGCCAAGATGGATGCTGGTTGGACAGGCCTGCAAGCCTCTGATATAAT
 GTGGACCATATCAGACACAGGTTGGATACTGAACATCTTGGGCTCACTTTTGAATCTTGGACATTAGGA
 GCATGCACATTTGTTTCTCTTGGCAAAGTTTGACCACTGGTATTCTAAAGACACTCTCCAGTTATC
 CAATCAAGAGTATGATGGGTGCCCTATTGTTTACCGGATGTTGCTACAGCAGGATCTTTCAGTTACAA
 GTTCCCCCATCTACAGAACTGCCTCGCTGGAGGGGAGTCCCTTCTCCAGAACTCTGGAGAACTGGAGG
 GCCCAGACAGGACTGGACATCCGAGAATTCTATGGCCAGACAGAAACGGGATTAACCTGCATGGTTTCCA
 AGACAATGAAAAATCAAACAGGATACATGGGAACGGCTGCTTCTGTTATGATGTACAGGTTATAGATGA
 TAAGGGCAACGTCTGCCCCCGGCACAGAAAGGAGACATTGGCATCAGGGTCAAACCCATCAGGCCTATA
 GGCATCTTCTCTGGCTATGTGGAATCCGACAAGACAGCAGCAACATTGAGGAGACTTTTGGCTCC
 TTGGAGACCGGGGAATCAAAGATGAAGATGGGTATTTCCAGTTTATGGGACGGGCAGATGATATCATTAA
 CTCCAGCGGGTACCGGATTGGACCCTCGGAGGTAGAGAATGCACTGATGAAGCACCTGCTGTGGTTGAG
 ACGGCTGTGATCAGCAGCCAGACCCGTCGAGGAGAGGTGGTGAAGGCATTTGTATCTGGCCTCGC
 AGTTCCTATCCCATGACCCAGAACAGCTACCAAGGAGCTGCAGCAGCATGTGAAGTCAGTGACAGCCCC
 ATACAAGTACCAAGAAAGATAGAGTTTGTCTTGAACCTGCCAAGACTGTCACAGGAAAATTCAACGA
 ACCAAACTTCGAGACAAGGAGTGAAGATGTCCGAAAAGCCCGTGCGCAG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225976 representing NM_001105069
 Red=Cloning site Green=Tags(s)

MHWLRKVQGLCTLWGTQMSSRTLYINSRQLVSLQWGHQEVPAKFNFASDVLHWADMEKAGKRLPSPALW
 WVNGKGKELMWNFRELSENSQQAANILSGACGLQRGDRVAVMLPRVPEWWLVILGCIRAGLIFMPGTIQM
 KSTDILYRLQMSKAKAIVAGDEVIQEVDTVASECPSLRILKLVSEKSCDGLNFKLLNEASTTHHCVET
 GSQEASAIYFTSGTSGLPKMAEHSYSSLGLKAKMDAGWTGLQASDIMWTISDTGWILNILGSLLESWTLG
 ACTFVHLLPKFDPLVILKTLSSYPIKSMMGAPIVYRMLLQQDLSSYKFPHLQNCLAGGESLLPETLENWR
 AQTGLDIREFYGTETGLTCMVSKTMKIKPGYMGTAASCYDVQVIDDKGNVLPPTGEGDIGIRVKPIRPI
 GIFSGYVENPDKTAANIRGDFWLLGDRGIKDEDGYFQFMGRADDIINSSGYRIGPSEVENALMKHPAVVE
 TAVISSPDPVRGEVVKAFVILASQFLSHDPEQLTKELQHVKSVTAPYKYPRKIEFVLNLPKTVTGKIQR
 TKLRDKWKMSGKARAQ

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_001105069.2](#)

RefSeq Size: 2409 bp

RefSeq ORF: 1734 bp

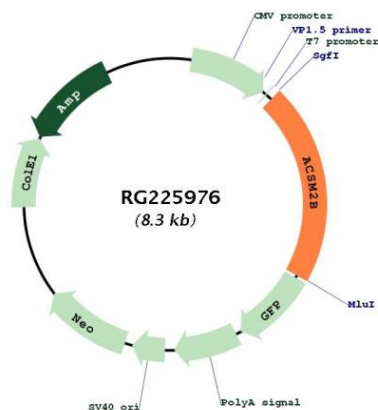
Locus ID: 348158

UniProt ID: [Q68CK6](#)

Cytogenetics: 16p12.3

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 RG225976