

Product datasheet for **RG214283**

ACSM2B (NM_182617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM2B (NM_182617) 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:

>RG214283 representing NM_182617
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGCATTGGCTGCGAAAAGTTCAAGGACTTTGCACCCTGTGGGTACTCAGATGTCCAGCCGCACTCTCT
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 TAGTGATGTGTTGGATCACTGGGCTGACATGGAGAAGGCTGGCAAGCGACTCCCAAGCCAGCCCTGTGG
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 CCAACGTCCTCTCGGGAGCCTGTGGCTGCAGCGTGGGGATCGTGTGGCAGTGATGCTGCCCCGAGTGCC
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 GGAAGCCAGGAAGCATCTGCCATCTACTCACTAGTGGGACCAAGTGGTCTTCCCAAGATGGCAGAACATT
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 AGTTCCTATCCCATGACCCAGAACAGCTACCAAGGAGCTGCAGCAGCATGTGAAGTCAGTGACAGCCCC
 ATACAAGTACCAAGAAAGATAGAGTTTGTCTTGAACCTGCCAAGACTGTCACAGGAAAATTCAACGA
 ACCAACTTCGAGACAAGGAGTGAAGATGTCCGAAAAGCCCGTGCGCAG

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214283 representing NM_182617
 Red=Cloning site Green=Tags(s)

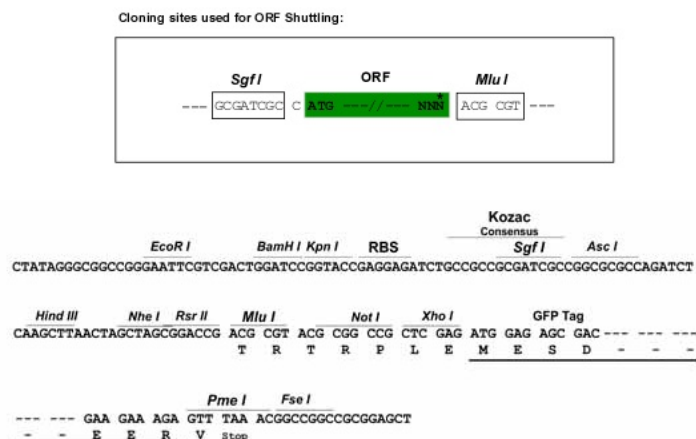
MHWLRKVQGLCTLWGTQMSSRTLYINSRQLVSLQWGHQEVPAKFNFASDVLHWADMEKAGKRLPSPALW
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 KSTDILYRLQMSKAKAIVAGDEVIQEVDTVASECPSLRILLVSEKSCDGLNFKLLNEASTTHHCVE
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 AQTGLDIREFYGTETGLTCMVSKTMKIKPGYMGTAASCYDVQVIDDKGNVLPPTGEGDIGIRVKPIRPI
 GIFSGYVENPDKTAANIRGDFWLLGDRGIKDEDDGYFQFMGRADDIINSSGYRIGPSEVENALMKHPAVVE
 TAVISSPDPVRGEVVKAFVILASQFLSHDPEQLTKELQHVKSVTAPYKYPRKIEFVLNLPKTVTGKIQR
 TKLRDKWKMSGKARAQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM 182617

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 182617.2, NP 872423.2

RefSeq Size: 1995 bp

RefSeq ORF: 1734 bp

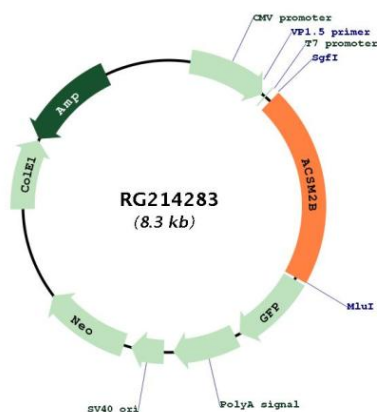
Locus ID: 348158

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 RG214283