

Product datasheet for **RG209798**

ACSM5 (NM_017888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM5 (NM_017888) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSM5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209798 representing NM_017888
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGACCATGGCTGAGACACCTAGTCCTCCAGGCACTGAGGAATCCAGGGCATTCTGTGGGTCTCATG
 GGAAGCCAGCACCTCTACCTGTTCTCAGAAGATCGTGGCCACCTGGGAAGCCATCAGCCTGGGAAGGCA
 GCTGGTGCCTGAGTACTTCAACTTCGCCATGATGTGCTGGATGTGTGGAGTCGGCTGGAAGAGGCTGGA
 CACCGCCCCCAAATCTGCCTTCTGGTGGTCAATGGCACAGGAGCAGAGATCAAGTGGAGCTTTGAGG
 AGCTGGGAAGCAGTCCAGGAAGGCAGCCAATGTGCTGGGGGTGCATGCGGCCTGCAGCCTGGGGACAG
 AATGATGCTGGTACTCCCACGGCTCCCGGAGTGGTGGTGGTCAAGTACCGGCTGCAGGCTCCAGGGCCA
 GTGATGATTCCGGGTGTGACTCAGCTGACAGAGAAGGACCTCAAGTACCGGCTGCAGGCTCCAGGGCCA
 AGTCCATTATCACCAGTACTCCCTAGCTCCAAGGTGGATGCCATCAGTCCGAATGCCCTCCCTCCA
 GACCAAGCTGCTGGTGTGACAGCAGCTCGCCAGGCTGGTTGAACTTCAGGGAATCCTCCGGGAGGCT
 TCTACAGAGCACAACTGCATGAGGACAAAGAGTCGAGACCCGCTGGCCATCTACTTTACCAGCGGAACCA
 CCGGGGCCCAAGATGGTTCGAGCACTCCAGAGCAGCTACGGACTGGGTTTTGTGGCCAGCGGAAGACG
 GTGGGTGGCCTTGACCGAATCTGACATCTTCTGGAACACGACTGACACTGGCTGGGTGAAGGCAGCCTGG
 ACTCTCTCTCTGCTGGCCTAATGGATCTTGCATTTTTGTGCATGAGCTGCCCGAGTTGATGCCAAAG
 TTATCCTGAATACTCTCTCAAATTCGGATAACCACCCTCTGCTGTGTCCCAACCATCTTTCGGCTGCT
 TGTGCAGGAGGATCTGACCAGGTACCAGTTTCCAGGCTGAGGCACTGTCTGACCGGAGGAGAGGCCCTC
 AACCTGACGTGAGGGAGAAGTGGAAACACCAGACTGGTGTGGAGCTGTACGAAGGCTATGGCCAGTCTG
 AAACGGTTGTCACTGTGCCAATCCAAAAGGCATGAAAATCAAGTCTGGATCCATGGGAAGGCGTCCCC
 AACCTACGATGTGCAGATTGTGGATGATGAGGGCAACGTCTGCTCCTGGAGAAGAGGGGAATGTTGCC
 GTCGATCAGACCCACTCGGCCCTCTGTTTCTCAATTGCTATTTGGACAATCCTGAGAAGACAGCTG
 CATCAGAACAAGGGGACTTTTACATCACAGGGGACCGAGCTCGCATGGACAAGGATGGCTACTTTTGGTT
 CATGGGAAGAAACGACGATGTGATCAATTCTTCAAGCTACCGGATCGGGCCTGTTGAAGTGGAAAGTGCC
 CTGGCAGAGCATCCTGCTGCTGGAGTCGGCTGCGGTGAGCAGCCAGACCCCATCAGGGGAGAGGTGG
 TAAAGGCATTTATAGTCCTTACTCCAGCCTACTCTCTCATGACCCAGAGGCACTAACCGGGAACTCCA
 GGAGCATGTGAAAAGGTGACTGCTCCATACAAATACCCAGGAAGGTGGCCTTTGTTTCAGAACTGCCA
 AAGACGGTTTCTGGAAAGATCCAAGGAGTAAATTGCGAAGTCAGGAGTGGGGGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209798 representing NM_017888
 Red=Cloning site Green=Tags(s)

MRPWLRLHLVLQALRNSRAFCGSHGKPAPLPVPQKIVATWEAISLGRQLVPEYFNFAHDVLDVWSRLEEAG
 HRPPNPAFWVNGTGAEIKWSFEELGKQSRKAANVLGGACGLQPGDRMMLVLPRLPEWWLVSVACMRTGT
 VMIPGVTQLTEKDLKYRLQASRAKSIITSDSLAPRVDAISAECPSLQTKLLVSDSSRPGWLNFRELLREA
 STEHNCMRTKSRDPLAIYFTSGTTGAPKMVEHSQSSYGLGFVAGRRWVALTESDIFWNTTDTGWVKAAM
 TLFSAWPNGSCIFVHELPRVDAKILNLSKFPITTLCCVPTIFRLLVQEDLTRYQFQSLRHCLTGGEAL
 NPDVREKWKHQGTGVELYEGYQSETVVICANPKGMKIKSGSMGKASPPYDVQIVDDEGNLPPGEEGNVA
 VRIRPTRPFCFFNCYLDNPEKTAASEQGFYITGDRARMDKDYFWFMGRNDDVINSSSYRIGPVEVESA
 LAEHPAVLESAAVSSPDIRGEVVKAFIVLTPAYSSHDPEALTRELQEHVKRVTAPYKYPRKVAFVSELP
 KTVSGKIQRSLRSQEWGK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_017888

ORF Size: 1737 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_017888.2](#), [NP_060358.2](#)

RefSeq Size: 2428 bp

RefSeq ORF: 1740 bp

Locus ID: 54988

UniProt ID: [Q6NUN0](#)

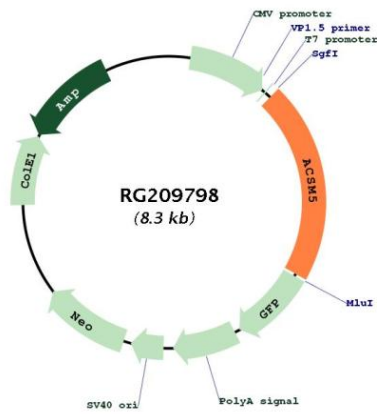
Cytogenetics: 16p12.3

Domains: AMP-binding

Protein Pathways: Butanoate metabolism, Metabolic pathways

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 RG209798