

## Product datasheet for **RG218188**

### ACSM3 (NM\_005622) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSM3 (NM_005622) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACSM3
Synonyms:	SA; SAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218188 representing NM\_005622  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTAGCTCGTGTACCAGGAAGATGCTACGTATGCCAAGTGTTCAGCGCCTAGCAATTTTGGTT  
 CTGTGAGGGCACTGCATAAAGATAATAGAACAGCAACCCCTCAGAATTTCTCCAATATGAATCCATGAA  
 ACAGGACTTCAAACCTGGGATTCCAGAGTATTTCAACTTTGCTAAAGATGTCCTGGACCAATGGACTGAT  
 AAGGAAAAGGCTGAAAGAAACCTTCAAATCCAGCCTTCTGGTGGATCAACAGAAATGGAGAAGAGATGC  
 GATGGAGTTTTGAGGAACTGGGATCTCTGTCCAGAAAAATTTGCCAATACTTTTCAGAAGCCTGTTCCCT  
 ACAAGAGGAGATCGGTAATTCTGATTCTGCCAGGGTCCAGAGTGGTGGCTTGCAAATGTGGCCTGT  
 CTGCGAACAGGGACAGTTTTAATCCAGGAACCACTCAGCTGACCCAGAAAGACATTCTCTACAGACTAC  
 AATCTTCAAAGCAAACCTGCATTATACCAATGATGTTTTAGCCCCAGCAGTAGACGCTGTTGCATCCAA  
 ATGTGAAAATCTGCACTCCAAGCTGATTGTATCAGAGAACTCCAGAGAGGGGTGGGGAACTCAAGGAG  
 TTGATGAAACATGCCAGTGACAGCCACACTGTGTGAAGACAAAACAAATGAGATCATGGCCATATTCT  
 TTACCAGTGGAACAAGTGGATATCCGAAAATGACTGCACACACCCACAGCAGTTTTGGTTTAGGATTATC  
 TGTAAATGGAAGTTCTGGCTAGATTTGACACCCTCAGATGTGATGTGGAATACCTCAGATACGGCTGG  
 GCAAAGTCTGCATGGAGTAGTGTTCCTCCGTGGATCCAGGGAGCATGTGATTCACACACCAATTTAC  
 CCCGTTTTGAGCCGACTTCTATCTTGCAAAACACTCTCAAAGTACCCATCACAGTCTTCTGTTTCAGCACC  
 AACTGTATACCGAATGCTGTACAGAATGATAAACCAGCTATAAGTTTTAAAAGCTTAAAGCACTGTGTG  
 AGTGCTGGGGAACCAATTACCCCTGACGTGACTGAAAAATGGAGAACAAGACGGGCCTGGATATCTACG  
 AAGGATATGGACAGACTGAAACCGTGTAACTCTGTGAAATTTTAAAGGAATGAAATTAACACTGGCTC  
 AATGGGAAAACCTTCTCCTGCTTTTCGATGTTAAGATTGTAGATGTAATGGCAATGTTCTACCTCCTGGA  
 CAAGAAGGAGATATTGGCATTCAAGTTCTACCCAACCGACCATTGGCCTTTTTACTCATTACGTAGATA  
 ATCCTTCAAAAACAGCTTCAACTCTACGAGGCAATTTCTATATCACTGGGGACAGAGGATATATGGATAA  
 AGATGGGTATTTCTGGTTGTTGCAAGAGCAGATGATGCATATTATCCTCTGGCTATCGAATTGGACCA  
 TTTGAGGTAGAAAATGCCCTGAATGAACACCCCTCAGTTGCAGAGTCAGCTGTTGTCAGCAGCCAGACC  
 CCATCAGAGGAGAGGTAGTAAAGGCTTTTGTCTTAATCCTGATTACAAGTCACATGATCAAGAACA  
 ACTAATAAAGGAGATTCAGGAGCATGTTAAAAAACTACAGCACCTTACAATATCCAGAAAGGTAGAA  
 TTTATTCAAGAGCTGCCAAAGACTATCAGTGGGAAGACAAAAGAAATGAACTGAGGAAGAAAGAATGGA  
 AGACAATT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG218188 representing NM\_005622  
 Red=Cloning site Green=Tags(s)

MLARVTRKMLRHAKCFQRLAIFGSVRLHKNRTATPQNFSNYESMKQDFKLGPIPEYFNFAKDVLDQWTD  
 KEKAGKKPSNPAFWWINRNGEEMRWSFEELGSLSRKFANILSEACSLQRGDRVILILPRVPEWWLANVAC  
 LRTGTVLIPGTTQLTQKDILYRLQSSKANCIIITNDVLAPAVDAVASKCENLHSLKIVSENSREGWGNLKE  
 LMKHASDSHTCVKTKHNEIMAIFFTSGTSGYPKMTAHTHSSFGLGLSVNGRFLDLTPSDVMWNTSDTGW  
 AKSAWSSVFPWIQACVFTHHLPRFEPTSILQTL SKYPITVFCASPTVYRMLVQNDITSYKFKSLKHCV  
 SAGEPITPDVTEKWRNKGLDIYEGYQTETVLICGNFKGMKIKPGSMGKPSPAFDVKIVDVGNGVLP  
 QEGDIGIQVLPNRPFLFTHYVDNPSKASTLRGNFYITGDRGYMDKDG YFWFVARADDVILSSGYRIGP  
 FEVENALNEHPSVAESAVVSSPDPIRGEVVKAFVVLNPDYKSHDQEQLIKEIQEHVKKTTAPYKYPRKVE  
 FIQELPKTISGKTKRNLRRKKEWKTI

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005622.4</a>
<b>RefSeq Size:</b>	2158 bp
<b>RefSeq ORF:</b>	1761 bp
<b>Locus ID:</b>	6296
<b>UniProt ID:</b>	<a href="#">Q53FZ2</a>
<b>Cytogenetics:</b>	16p12.3
<b>Domains:</b>	AMP-binding
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Butanoate metabolism, Metabolic pathways
<b>Gene Summary:</b>	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]