

Product datasheet for **SC315446**

Acetyl CoA synthetase (ACSS2) (NM_001076552) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acetyl CoA synthetase (ACSS2) (NM_001076552) Human Untagged Clone
Tag:	Tag Free
Symbol:	Acetyl CoA synthetase
Synonyms:	ACAS2; ACECS; AceCS1; ACS; ACSA; dj1161H23.1
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001076552, the custom clone sequence may differ by one or more nucleotides

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ATGATGGTGGAGTGGGCACCTCTTTGTGAATTCTGGGAGACATTGCCAAGGAATTTTAC
TGGAAAGACTCCATGCCCTGGCCATTCTTCGGTACAACCTTTGATGTGACTAAAGGGAAA
ATCTTCATTGAGTGGATGAAAGGAGCACTACCAACATCTGCTACAATGTACTGGATCGA
AATGTCCATGAGAAAAAGCTTGGAGATAAAGTTGCTTTTTACTGGGAGGGCAATGAGCCA
GGGAGAGCCACTCAGATCACATACCATCAGCTTCTGGTCCAAGTGTGTCAGTTCAGCAAT
GTTCTCCGAAAACAGGGCATTTCAGAAAGGGGACCGAGTGGCCATCTACATGCCTATGATC
CCAGAGCTTGTGGTGGCCATGCTGGCATGTGCCCGCATTGGGGCTTTGCACTCCATTGTG
TTTGCAGGCTTCTCTTCAGAGTCTCTATGTGAACGGATCTTGGATTCCAGCTGCAGTCTT
CTCATCTACAGATGCCTTCTACAGGGGGGAAAAGCTTGTGAACCTGAAGGAGCTGGCT
GACGAGGCCCTGCAGAAGTGTGAGGAGAAGGGTTCCAGTAAGATGCTGCATTGTGGTC
AAGCACCTGGGGCGGGCAGAGCTCGGCATGGGTGACTCCACCAGCCAGTCCCCCAATT
AAGAGGTCATGCCAGATGTGAGATCTCATGGAACCAAGGGATTGACTTGTGGTGGCAT
GAGCTCATGCAAGAGGCAGGGGATGAGTGTGAGCCGAGTGGTGTGATGCCGAGGACCCA
CTTTCATCCTGTACACCAGTGGCTCCACAGGCAACCCAAGGGTGTGGTTCACACAGTT
GGGGGCTACATGCTCTATGTAGCCACAACCTTCAAGTATGTGTTTGACTTCCATGCAGAG
GATGTGTTCTGGTGCACGGCAGACATTGGTTGGATCACTGGTCATTCTACGTCACCTAT
GGGCCACTGGCCAATGGTGCCACCAGTGTGTTGTTGAGGGGATCCACATATCCGGAC
GTGAACCGCCTGTGGAGCATTGTGGACAAATAAAGGTGACCAAGTTCTACACAGCACCC
ACAGCCATCCGTCTGCTCATGAAGTTTGGAGATGAGCCTGTCACCAAGCATAGCCGGGCA
TCCTTGCAGGTGTTAGGCACAGTGGGTGAACCCATCAACCCTGAGGCCTGGCTATGGTAC
CACCGGTGGTAGGTGCCAGCGCTGCCCATCGTGGACACCTTCTGGCAAACAGAGACA
GGTGCCACATGTTGACTCCCCTTCTCTGGTGCCACACCCATGAAACCCGGTTCTGCTACT
TTCCATTCTTTGGTGTAGCTCCTGCAATCCTGAATGAGTCCGGGGAAGAGTTGGAAGGT
GAAGCTGAAGGTTATCTGGTGTCAAGCAGCCCTGGCCAGGGATCATGCGCACAGTCTAT
GGGAACCCAGAACGCTTTGAGACAACCTACTTTAAGAAGTTTCTGGATACTATGTTACA
GGAGATGGCTGCCAGCGGGACCAGGATGGCTATTACTGGATCACTGGCAGGATTGATGAC
ATGCTCAATGTATCTGGACACCTGCTGAGTACAGCAGAGGTGGAGTCAGCACTTGTGGAA
CATGAGGCTGTTGCAGAGGCAGCTGTGGTGGGCCACCCTCATCCTGTGAAGGGTGAATGC
CTCTACTGCTTTGTCACCTTGTGTGATGGCCACACCTTCAGCCCCAAGCTCACCGAGGAG
CTCAAGAAGCAGATTAGAGAAAAGATTGGCCCCATTGCCACACCAGACTACATCCAGAAT
GCACCTGGCTTGCTAAAACCCGCTCAGGGAAAATCATGAGGCGAGTGTTCGGAAGATT
GCTCAGAAATGACCATGACCTCGGGGACATGTCTACTGTGGCTGACCCATCTGTCATCAGT
CACCTCTTCAGCCACCGCTGCCTGACCATCCAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001076552
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<ol style="list-style-type: none">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_001076552.1 , NP_001070020.1
RefSeq Size:	2874 bp
RefSeq ORF:	1956 bp
Locus ID:	55902
UniProt ID:	Q9NR19
Cytogenetics:	20q11.22
Protein Pathways:	Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism
Gene Summary:	<p>This gene encodes a cytosolic enzyme that catalyzes the activation of acetate for use in lipid synthesis and energy generation. The protein acts as a monomer and produces acetyl-CoA from acetate in a reaction that requires ATP. Expression of this gene is regulated by sterol regulatory element-binding proteins, transcription factors that activate genes required for the synthesis of cholesterol and unsaturated fatty acids. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2009]</p> <p>Transcript Variant: This variant (2) includes an alternate in-frame exon in the central coding region, compared to variant 1, resulting in a longer isoform (2), compared to isoform 1.</p>