

Product datasheet for **SC329945**

Acetyl CoA synthetase (ACSS2) (NM_001242393) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acetyl CoA synthetase (ACSS2) (NM_001242393) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSS2
Synonyms:	ACAS2; ACECS; AceCS1; ACS; ACSA; dj1161H23.1
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC329945 representing NM_001242393. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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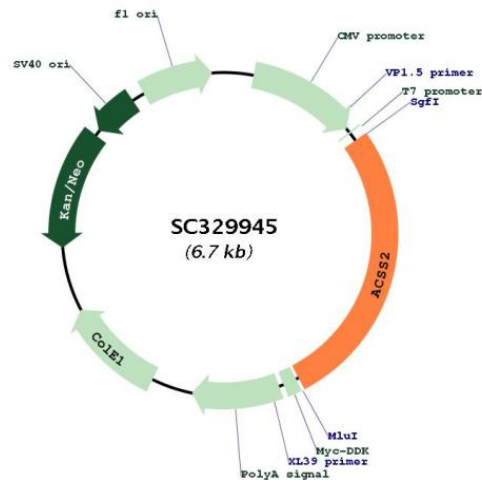
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001242393

Insert Size: 1821 bp

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).

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_001242393.1](#)

RefSeq Size: 2864 bp

RefSeq ORF: 1821 bp

Locus ID: 55902

Cytogenetics: 20q11.22

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

MW: 67.6 kDa

Gene Summary:

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]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.