

## Product datasheet for PH304260

### Acetyl CoA synthetase (ACSS2) (NM\_018677) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ACSS2 MS Standard C13 and N15-labeled recombinant protein (NP_061147)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204260
Predicted MW:	78.6 kDa
Protein Sequence:	>RC204260 protein sequence Red=Cloning site Green=Tags(s)

MGLPEERVRSRGSRGQEEAGAGGRARSWSPPEVSRSAHVPSLQRYRELHRRSVVEEPREFWGDIAKEYF  
WKTPCPGPFLRYNFDVTKGKIFIEWMKGATTNICYNVLDNRVHEKKLGDKVAFYWEGNEPGETTQITYHQ  
LLVQVCQFSNVLKQGIQKGDRAIYMPPIPELVVAMLACARIGALHSIVFAGFSSESLCERILDSSCSL  
LITTDAYRGEKLVNLKELADEALQKCQEKGFVPRCCIVVKHLGRAELGMDSTSQSPPIKRSCPVDQIS  
WNQGIDLWWHELMQEAGDECEPEWCDAEDPLFILYTSGSTGKPKGVVHTVGGYMLYVATTFKYVDFHAE  
DVFWCTADIGWITGHSYVTYGPLANGATSVLFEIPTYPDVNRLWSIVDKYKVKFYTAPT AIRLLMKFG  
DEPVTKHSRASLQVLGTGEPINPEAWLYHRVVGARCPVDTFWQTETGGHMLTPLPGATPMKPGSAT  
FPFFGVAPAILNESGEELEGEAEGYLVFKQPWPGIMRTVYGNHERFETTYFKKFPGYVTDGDCQRDQDG  
YYWITGRIDDMLNVSGHLLSTAEEVESALVEHEAVAEAAVVGHPPVKGECLYCFFTLCDGHTFSPKLTEE  
LKKQIREKIGPIATPDYIQNAPGLPKTRSGKIMRRVLRKIAQNDHDLGDMSTVADPSVISHLFSHRCLTI  
Q

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_061147</a>



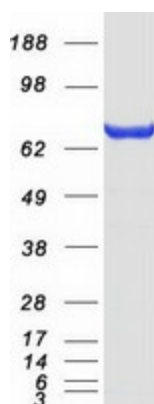
[View online »](#)

RefSeq Size:	2988
RefSeq ORF:	2103
Synonyms:	ACAS2; ACECS; AceCS1; ACS; ACSA; dj1161H23.1
Locus ID:	55902
UniProt ID:	<a href="#">Q9NR19</a> , <a href="#">Q6DKJ3</a>
Cytogenetics:	20q11.22

**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]

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

### Product images:



Coomassie blue staining of purified ACSS2 protein (Cat# [TP304260]). The protein was produced from HEK293T cells transfected with ACSS2 cDNA clone (Cat# [RC204260]) using MegaTran 2.0 (Cat# [TT210002]).