

## Product datasheet for **SC337587**

### **AASDH (NM\_001286671) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AASDH (NM_001286671) Human Untagged Clone
Tag:	Tag Free
Symbol:	AASDH
Synonyms:	ACSF4; LYS2; NRPS998; NRPS1098
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001286671, the custom clone sequence may differ by one or more nucleotides

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ATGACTCTTCAGGAATTGGTGCATAAAGGCTGCCTCCTGTTATATGGACAGAGTAGCTGTATGTTTTGATG
AATGCAACAACCAGCTTCCAGTTTACTACACCTACAAGACTGTGGTTAATGCTGCTTCTGAATTATCAAA
TTTTCTGTGTTACACTGTGACTTCAAGGAATTCGGGAAATTTGGTCTCTACTGCCAACCTGGGATAGAC
TTACCCTCTGGATTTTAGGAATTTCCAAGTCCCGGCTGCTTATGTACCTATCGAGCCAGATTCACCAC
CGTCATTATCAACTCATTTTATGAAAAATGTAATCTAAAGTATATCCTTGTGAAAAAACAATTA
TAAATTTAAATCTTTTCATGAAACATTATTGAACTATGATACATTTACAGTGGAACATAATGACCTAGTG
CTCTTCAGACTTCACTGGAAAAACTGAGGTGAACTTGATGCTAAATGATGGAAAAGAGAAATATGAAA
AAGAAAAATAAAAAGCATAAGTTCTGAGCATGTCAATGAAGAAAAAGCAGAAGAACACATGGATCTGAG
GCTAAAGCATTGCTTAGCCTATGTTCTACATACATCAGGGACTACAGGGATACCGAAGATTGTCAGAGTG
CCTCATAAGTGTATAGTACAAAATCCAGCATTTTCGGTACTTTTTGACATCACACAAGAAGATGTTT
TGTTTTCTGGCTTACCTCTGACCTTCGATCCTTCTGTTGTGAAAATATTTCTTGCTCTATCAAGTGGTGC
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CATAGAGTGACTGTTTTGCAGGCAACCAACATTGCTTAGAAGATTTGGATCTCAGCTTATCAAGTCAA
CTGTTTTGTGAGCCACTTCTCTTCGAGTATTAGCCCTTGGTGGTGAAGCGTTTCCATCATTGACAGT
TCTCAGAAGCTGGAGAGGAGAAGGCAATAAAACACAAATATTTAATGTTTATGGTATCACAGAGGTATCA
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AACTGGGATTTCCACTTCTTGAACAGTAGTTGAAGTCAGAGATACTAATGGCTTCACAATTCAGGAAGG
CAGTGGCCAAGTATTTTAGGTGGCAGAAACAGAGTGTGTTTTCTTGATGATGAAGTGACAGTACCACT
GGCACAATGCGAGCTACAGGAGACTTTGTGACTGTGAAAGATGGAGAGATTTTTTTTTGGGACGAAAAG
ACAGTCAGATCAAACGTATGGCAAACGCTTAAACATTGAACTTGTGCAACAGGTTGCTGAAGAGCTTCA
GCAAGTGGAGTCTTGTGAGTTACATGGTATAATCAGGAAAAATTAATTCTCTCATGGTGTCTAAAGAT
GCTTCAGTAAAAGAATACATCTTTAAAGAACTGCAGAAATATCTTCCAAGTCATGCAGTCCCGGATGAGC
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TTTAAACTACATAAACTTGAAGTCTGAGAATAAGCTCAGTGGGAAAGAGGACCTTTGGGAAAAATTACAG
TATTTGTGGAAGTCTACTCTGAATCTCCAGAAGATCTTTGAGGGTTCCTGATGAGTCACTCTTCTTAA
ATAGTGGTGGAGATTCCTTAAAGTCCATCCGGCTCCTCAGTGAGATTGAAAAACTTGTGGTACATCAGT
ACCTGGGCTTCTGAAATATTCTCAGCAGTTCATTTTAGAGATTTATAATCACATCCTCAAACAGTG
GTTCCAGATGAAGATGTGACATTCAGGAAGAGTTGTGCCAAAAAGGAAACTCAGCGACATTAATCAAG
AGGAAGCCAGTGGAAACATCTTTACATCAGAAAGCCATCATGACTTTCACTTGCCACAATGAGATTAATGC
TTTTGTTGACTGAGCAGAGGGAGTCAAATTTGTCTCTGAATTCCTAGGTTTTTAAACAAAGTTAGGA
CATTGCTCTTCAGCCTGTCTTCTGACTCAGTTTACAGACCAACATTCAAATTTGAAAGGCTTAAATT
CTCCAGTCTTATTGGGAAGTCAAAGATCCATCCTGTGTTGCAAAAGTTTCTGAAGAGGGGAAACCTGC
GATAGGGACTCAGAAAATGGAGTTACATGTGAGGTGGAGTGCAGACACAGGCAAAATGTGTAGATGCTTCA
CCGCTGGTTGTAATACCACTTTTATAAGTCACTACAACGTGTACATTGGTCCCATTCTCATAGAA
TGAAGGCAGTTGACTTTTACTCTGGGAAGTAAAATGGGAACAGATTTTGGGAGATCGAATTGAATCCTC
AGCATGTATCTAAGTGTGAAAATTTATTGTTGGGTTTGGCAGTTCTCTACCAGTGGACCAATCTT
TTCATCCCGTGTACCTCACCATCAGAGCAAAAAATATTTTTGTTCCCATGA
    
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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001286671

**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).

<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>	<u><a href="#">NM_001286671.1</a></u> , <u><a href="#">NP_001273600.1</a></u>
<b>RefSeq Size:</b>	3195 bp
<b>RefSeq ORF:</b>	2574 bp
<b>Locus ID:</b>	132949
<b>UniProt ID:</b>	<u><a href="#">Q4L235</a></u>
<b>Cytogenetics:</b>	4q12
<b>Protein Pathways:</b>	Lysine biosynthesis, Lysine degradation, Metabolic pathways
<b>Gene Summary:</b>	<p>This gene encodes a member of the non-ribosome peptide syntesase (NRPS) enzyme family. The encoded protein contains an AMP-binding domain, PP-binding (phosphopantetheine, or pantetheine 4'phosphate-binding) domain and the Pyrrolo-quinoline quinon (PQQ) binding domain. The protein is expressed in several adult tissues. [provided by RefSeq, Apr 2016]</p> <p>Transcript Variant: This variant (5) lacks several exons in the 3' end compared to variant 1. The resulting isoform (5) has a shorter and distinct C-terminus compared to isoform 1.</p>