

Product datasheet for **SC309316**

AASDH (NM_181806) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AASDH (NM_181806) 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)
Fully Sequenced ORF:	>SC309316 representing NM_181806. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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AGTCATGCAGTCCC GGATGAGCTTGATTGATCGACTCTCTACCATTTACATCCCACGGCAAAATTGAT
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_181806
- Insert Size:** 3297 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).
- 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:

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_181806.2](#)

RefSeq Size: 3614 bp

RefSeq ORF: 3297 bp

Locus ID: 132949

UniProt ID: [Q4L235](#)

Cytogenetics: 4q12

Protein Pathways: Lysine biosynthesis, Lysine degradation, Metabolic pathways

MW: 122.6 kDa

Gene Summary: 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]