

## Product datasheet for **SC307880**

### ADSS1 (NM\_199165) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADSS1 (NM_199165) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADSS1
Synonyms:	ADSSL1; MPD5
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\_199165, the custom clone sequence may differ by one or more nucleotides

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ATGGTGGGGAGGAGCTGTGGGGTGGCAACCCAGAGGCAAGGAGGTGGGCAGAGGCCACG
AACCTGGCCCTGACCCTCAGCTCGTCCCCAGCTCACAGCACAGCCCTCCCCTGGTGCCT
CCAAGGAGTCTCCAGTTACTGAGTGGCCACTCCGTGCCAGCTCAGCCCACCCCTCACCT
CCCAGTGCCTGTGGAGGCCAACTAGGGTGACGCTGGGAGAGGAGAGGGCTTGGAGGAGC
CACGGTCAAATGCAGGAGGCCACACCTGCCTGCCAGGAGGACTGCAGGAGCCGGATCC
TTAACACCTGGAGGGGAGCGGGGGGCAACAACGCCGCCACACGGTGGTGGTGGATGGG
AAAGAGTACGACTTCCACCTGCTGCCACGGCATCATCAACACCAAGGCCGTGTCTTC
ATTGGCAACGGGGTGGTATCCACTTGCCAGGCTTGTGGAGGAAGCAGAGAAGAATGAA
AAGAAAGCCCTGAAGGACTGGGAGAAGAGGCTCATCATCTCTGACAGAGCCACCTTGTG
TTTGATTTTACCAGGCTGTCGACGGACTTCAGGAAGTGCAGCGCCAGGCACAAGAGGGG
AAGAATATAGGCACCACCAAGAAGGGAATCGGACCAACCTACTCTTCAAAGCTGCCCGG
ACAGGCCCTCCGCATCTGCGACCTCCTGTCAGATTTTGATGAGTTTCTCCAGATTCAAG
AACCTGGCCACCAGCACCAGTCGATGTTCCCCACCTGAAAATAGACATTGAAGGCCAA
CTCAAAAGGCTCAAGGGCTTTGCTGAGCGGATCAGACCCATGGTCCGAGATGGTGTTCAC
TTTATGTATGAGGCACTCCACGGCCCCCAAGAAGATCCTGGTGGAGGGTGCCAACGCC
GCCCTCTCGACATTGACTTCGGGACCTACCCCTTGTGACTTCATCCAAGTGCACCGTG
GGCGGTGTGTGCACGGGCTGGGCATCCCCCGCAGAACATAGGTGACGTGTATGGCGTG
GTGAAAGCCTATACCACACGTGTGGGCATCGGGGCCTTCCCCACCGAGCAGATCAACGAG
ATTGGAGCCCTGCTGCAGACCCGCGCCACGAGTGGGGAGTGACCACAGGCAGGAAGAGG
CGCTGCGGCTGGCTCGACCTGATGATTCTAAGATATGCTCACATGGTCAACGGATTCACT
CCGCTGGCCCTGACGAAGCTGGACATCCTGGACGTAAGGTTAAAGTCGGTGTGTC
TCATACAAGCTGAACGGGAAAAGGATTCCCTATTTCCAGCTAACCCAGGAGATGCTTCAG
AAGGTCGAAGTTGAGTATGAAACGCTGCCTGGGTGAAAAGCAGACACCACAGGCGCCAGG
AGGTGGGAGGACCTGCCCCACAGGCCAGAACTACATCCGCTTTGTGGAGAATCACGTG
GGAGTCGCAGTCAAATGGGTTGGTGTGGCAAGTCAAGAGAGTGCATGATCCAGCTGTTT
TAG
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_199165

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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.

<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_199165.1</a></u> , <u><a href="#">NP_954634.1</a></u>
<b>RefSeq Size:</b>	1826 bp
<b>RefSeq ORF:</b>	1503 bp
<b>Locus ID:</b>	122622
<b>UniProt ID:</b>	<u><a href="#">Q8N142</a></u>
<b>Cytogenetics:</b>	14q32.33
<b>Protein Pathways:</b>	Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism
<b>Gene Summary:</b>	<p>This gene encodes a member of the adenylosuccinate synthase family of proteins. The encoded muscle-specific enzyme plays a role in the purine nucleotide cycle by catalyzing the first step in the conversion of inosine monophosphate (IMP) to adenosine monophosphate (AMP). Mutations in this gene may cause adolescent onset distal myopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>