

## Product datasheet for **RC204256**

### AdSS 2 (ADSS) (NM\_001126) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AdSS 2 (ADSS) (NM_001126) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AdSS 2
Synonyms:	ADEH; ADSS; ADSS 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC204256 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGTTCGCCGAGACCTACCCGGCGGCATCCTCCCTGCCAACGGCGATTGCGGCCGCCCCAGGGCGC  
 GGCCCGGAGGAAACCGGGTGACGGTGGTCTCGGTGCGCAGTGGGGCAGCAAGGCAAAGGGAAGTGTT  
 GGACCTGCTGGCCGAGGACGCCGACATCGTGTGCCGCTGCCAGGAGGAAATAATGCTGGCCATACAGTT  
 GTTGTGGATTCTGTGGAATATGATTTTCATCTCTTACCCAGTGAATAATTAATCCAAATGTCACCTGCAT  
 TCATTGGAATGGTGTGGTAATTCATCTACCTGGATTGTTTGAAGAAGCAGAGAAAAATGTTCAAAAAGG  
 AAAAGGACTAGAAGGCTGGGAAAAAGGCTTATTATATCTGACAGAGCTCATATTGTATTTGATTTTCAT  
 CAAGCAGCTGATGGTATCCAGGAACAACAGAGACAAGAACAAGCAGGAAAAAATTTGGGTACAACAAAA  
 AGGGCATTGGCCAGTTTATTCGTCAAAGCTGCTCGGAGTGGACTCAGGATGTGCGACCTTGTTCCTGA  
 CTTTGATGGCTTCTCTGAGAGGTTTAAAGTTCTAGCTAACCAATACAAATCTATATACCCCACTTTGGAA  
 ATAGACATTGAAGGTGAATTACAAAACTCAAGGGTTATATGGAAAAGATTAAACCAATGGTGAGAGATG  
 GAGTTTATTTCTATATGAGGCCCTACATGGACCACAAAGAAAACTTGGTAGAAGGTGCAAAATGCAGC  
 ACTATTAGATATTGATTTGGGACTTACCTTTTGAACCTCTTCAAATGTAAGTGTGGAGGTGTTTGT  
 ACTGGTTTGGGTATGCCACCTCAAAATGTTGGAGAAGTGTATGGAGTTGTGAAAGCTTATACAACAGAG  
 TTGGTATTGGTGCCTTTCCTACAGAGCAAGACAATGAAATTGGAGAATTATTACAAACAAGGGGTAGAGA  
 GTTTGGTGAACACTACTGGAAGGAAAAGAAGATGTGGCTGGTTGGACCTCGTTTGTCTCAAATATGCTCAT  
 ATGATCAATGGATTTACTGCGTTGGCACTTACCAAGTTGGATATTTGGACATGTTTACGGAAATCAAAG  
 TTGGAGTTGCTTACAAGTTAGATGGTGAATCATACCTCATATCCAGCAAACCAAGAAGCTTAAATAA  
 AGTTGAAGTTCAATATAAGACTCTCCAGGATGGAACACAGACATATCAATGCAAGGGCGTTTAAAGAA  
 CTACCTGTTAATGCACAAAATATGTTGATTTATTGAAGATGAGCTTCAAATCCAGTTAAGTGGATTG  
 GTGTTGTTAAATCCAGAGAATCTATGATTCAACTCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC204256 protein sequence  
 Red=Cloning site Green=Tags(s)

MAFAETYPAASSLPNGDCGRPRARPGGNRVTVVLGAQWGDEGKGVVDLLAQDADIVCRCQGGNNAGHTV  
 VVDSVEYDFHLLPSGIINPNVTAFIGNGVVIHLPLFEEAEKNVQKKGLEGWKRLIISDRAHIVDFH  
 QAADGIEQQRQEQAGKNLGTTKKIGIPVYSSKAARSGLRMC DLVSDFDGFSERFKVLANQYKSIYPTLE  
 IDIEGELQKLKGYMEKIKPMVRDGVYFLYEALHGPPKILVEGANALLDIDFGTYPFVTSNCTVGGVC  
 TGLMPPQNVGEVYGVVKAYTTRVIGAFPEQDNEIGELLQTRGREFGVTTRKRRCGWLDLVLLKYAH  
 MINGFTALALTKLDILDMFTEIKVGVAYKLDGEIIPHIPANQEVLNKVEVQKTLPGWNTDISNARAFKE  
 LPVNAQNYVRFIEDELQIPVKWIGVKSRESMIQLF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6059\\_d04.zip](https://cdn.origene.com/chromatograms/mk6059_d04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001126

**ORF Size:** 1368 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001126.5](#)

**RefSeq Size:** 2791 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 159

**UniProt ID:** [P30520](#)

**Cytogenetics:** 1q44

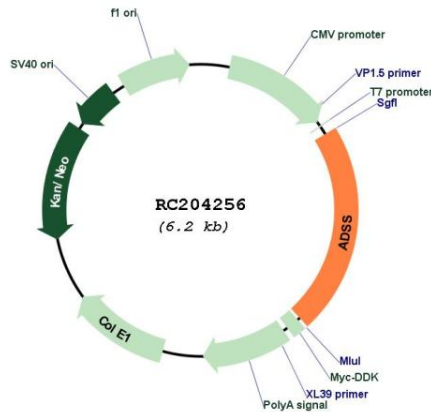
**Domains:** Adenylsucc\_synt

**Protein Pathways:** Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism

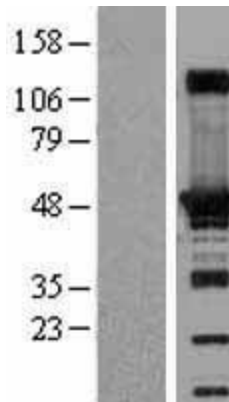
**MW:** 50.1 kDa

**Gene Summary:** This gene encodes the enzyme adenylosuccinate synthetase which catalyzes the first committed step in the conversion of inosine monophosphate to adenosine monophosphate. A pseudogene of this gene is found on chromosome 17.[provided by RefSeq, Nov 2010]

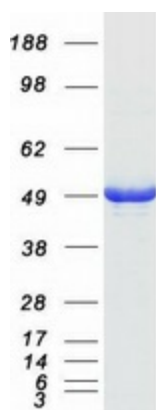
**Product images:**



Circular map for RC204256



Western blot validation of overexpression lysate (Cat# [LY400453]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204256 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADSS protein (Cat# [TP304256]). The protein was produced from HEK293T cells transfected with ADSS cDNA clone (Cat# RC204256) using MegaTran 2.0 (Cat# [TT210002]).