

Product datasheet for **SC334924**

AMD1 (NM_001287215) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMD1 (NM_001287215) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMD1
Synonyms:	ADOMETDC; AMD; SAMDC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001287215, the custom clone sequence may differ by one or more nucleotides

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ATGTTTGTCTCCAAGAGACGTTTCATTTTGAAGACATGTGGTACCACCCTCTTGCTGAAAGCACTGGTTC
CCCTGTTGAAGCTTGCTAGGGATTACAGTGGGTTTGACTCAATTCAAAGCTTCTTTTATTCTCGTAAGAA
TTTCATGAAGCCTTCTCACCAAGGGTACCCACACCGGAATTTCCAGGAAGAAATAGAGTTTCTTAATGCA
ATTTTCCCAAATGGAGCAGCATATTGTATGGGACGTATGAATTCTGACTGTTGGTACTTATATACTCTGG
ATTTCCAGAGAGTCGGGTAATCAGTCAGCCAGATCAAACCTTGGAAATCTGATGAGTGAGCTTGACCC
AGCAGTTATGGACCAGTCTACATGAAAGATGGTGTACTGCAAAGGATGCACTCGTGAGAGTGGAATT
CGTGACCTGATACCAGGTTCTGTCATTGATGCCACAATGTTCAATCCTTGTGGGATTTCGATGAATGGAA
TGAAATCGGATGGAACCTATTGGACTATTACATCACTCCAGAACCAGAAATTTCTTATGTTAGCTTTGA
AACAACTTAAGTCAGACCTCCTATGATGACCTGATCAGGAAAAGTTGTAGAAGTCTTCAAGCCAGGAAAA
TTTGTGACCACCTTGTTTGTAAATCAGAGTTCTAAATGTCGCACAGTGCTTGCTTCGCCCCAGAAGATTG
AAGTTTTAAGCGTCTTGATTGCCAGAGTGCTATGTTCAATGATTACAATTTTGTGTTTTACCAGTTTTGC
TAAGAAGCAGCAACAACAGCAGAGTGA
  
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001287215
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).



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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:	<ol style="list-style-type: none">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:	<u>NM_001287215.1, NP_001274144.1</u>
RefSeq Size:	3200 bp
RefSeq ORF:	798 bp
Locus ID:	262
Cytogenetics:	6q21
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Cysteine and methionine metabolism, Metabolic pathways
Gene Summary:	<p>This gene encodes an important intermediate enzyme in polyamine biosynthesis. The polyamines spermine, spermidine, and putrescine are low-molecular-weight aliphatic amines essential for cellular proliferation and tumor promotion. Multiple alternatively spliced transcript variants have been identified. Pseudogenes of this gene are found on chromosomes 5, 6, 10, X and Y. [provided by RefSeq, Dec 2013]</p> <p>Transcript Variant: This variant (4) has an alternate 5' exon, which results in translation initiation at a downstream AUG start codon, compared to variant 1. The resulting isoform (4) has a shorter N-terminus, compared to isoform 1.</p>