

## Product datasheet for **RC237333**

### AMD1 (NM\_001287214) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AMD1 (NM\_001287214) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** AMD1  
**Synonyms:** ADOMETDC; AMD; SAMDC  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237333 representing NM\_001287214  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAAGCTGCACATTTTTTCGAAGGGACCGAGAAGCTGCTGGAGGTTGGTTCTCCCGGCAGCAGCCCG  
ACGCAAACCAAGGATCTGGGGATCTTCGCACTATCCCAAGTGAGAGTAGCATGTTGTCTCCAAGAGACG  
TTTCATTTTGAAGACATGTGGTACCACCCTCTTGCTGAAAGCACTGGTCCCTGTGAAGCTTGTAGG  
GATTACAGTGGGTTTGACTCAATCAAAGCTTCTTTATTCTCGTAAGAAATTCATGAAGCCTTCTCACC  
AAGGGTACCCACACCGGAATTTCCAGGAAGAAATAGAGTTTCTTAATGCAATTTCCCAAATGGAGCAGC  
ATATTGTATGGGACGTATGAATTCTGACTGTTGGTACTTATATACTCTGGATTTCCAGAGAGTCGGGTA  
ATCAGTCAGCCAGATCAAACCTTGGAAATCTGATGAGTGAGCTTGACCCAGCAGTTATGGACCAGTTCT  
ACATGAAAGATGGTGTTACTGCAAAGGATGTCCTCGTGAGAGTGAATTCGTGACCTGATACCAGGTTCT  
TGTCATTGATGCCACAATGTTCAATCCTTGTGGGTATTCGATGAATGGAATGAAATCGGATGGAACCTAT  
TGGACTATTCACATCACTCCAGAACCAGAATTTCTTATGTTAGCTTTGAAACAAACTTAAGTCAGACCT  
CCTATGATGACCTGATCAGGAAAGTTGTAGAAGTCTTCAAGCCAGGAAATTTGTGACCACCTTGTGTTGT  
TAATCAGAGTTCTAAATGTCGCACAGTGTCTTCTCGCCCAGAAGATTGAAGGTTTTAAGCGTCTTGAT  
TGCCAGAGTGCTATGTTCAATGATTACAATTTTGTGTTTACCAGTTTTGCTAAGAAGCAGCAACAACAGC  
AGAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237333 representing NM\_001287214  
Red=Cloning site Green=Tags(s)

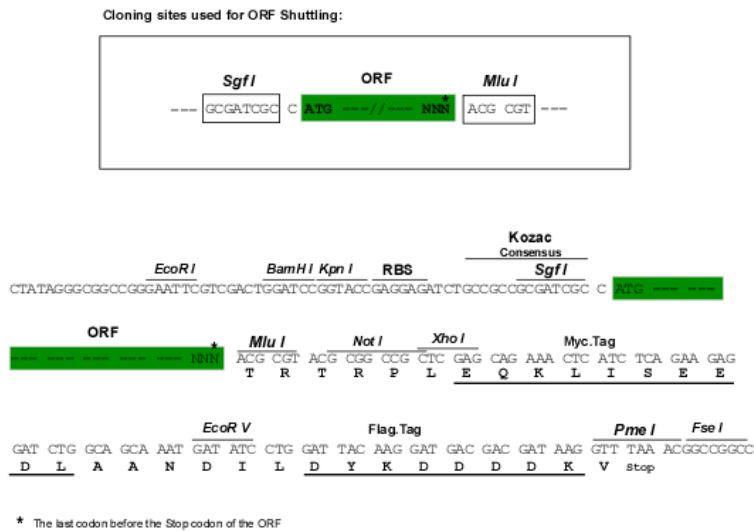
MEAAHFFEGTEKLLLEVWFSRQQPDANQSGDLRTIPSESSMFVSKRRFILKTCGTTLLKALVPLLKLAR  
 DYSGFDSIQSFFYSRKNFMKPSHQGYPHRNFQEEIEFLNAIFPNGAAYCMGRMNSDCWYL YTLDFPESRV  
 ISQPDQTL EILMSELDPAVM DQFYMKDGV TAKDVTRESGIRDLIPGSVIDATMFNPGYSMNGMKSDGTY  
 WTIHITPEPEFSYVSFETNL SQT SYDDLIRKVV E VFKPGK FVTTLFVNQSSKCR TVL ASPQKIEGFKRLD  
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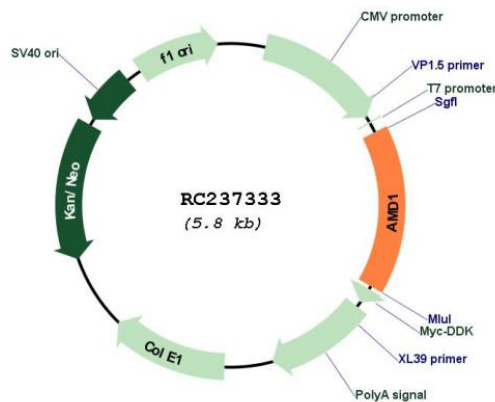
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001287214

**ORF Size:** 915 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001287214.1</a> , <a href="#">NP_001274143.1</a>
<b>RefSeq Size:</b>	3350 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	262
<b>Cytogenetics:</b>	6q21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Arginine and proline metabolism, Cysteine and methionine metabolism, Metabolic pathways
<b>MW:</b>	35.4 kDa
<b>Gene Summary:</b>	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]