

Product datasheet for **SC329127**

AMPD1 (NM_001172626) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD1 (NM_001172626) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMPD1
Synonyms:	MAD; MADA; MMDD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001172626, the custom clone sequence may differ by one or more nucleotides

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ATGAATGTCAGGATATTTTATAGTGTGTCAGTCAGTCACCCACAGTCTCCTCTCTTCTT
TTCTACTGTGCTATCCTAGAATCAAGGATTTTCAGCAACAATGCCTCTGTTCAAACCCCA
GAAATTGATGATGCAATGCGCAACTTTGCTGAAAAAGTGTTCCTCTGAAGTCAAAGAT
GAAGGAGGTCGTGAGGATTTCCCTTTGATGTGGATGAGATCTGCCGATTTCTCAT
CATGAGATGCAAGCACACATATTCATCTGGAGACTCTGCCACCTCCACAGAAGCCAGG
AGAAAAAGCGTTTCCAAGGACGGAAGACTGTTAATTTGCCATTCCACTAAGTGAAACA
TCTTCCACCAAAGTGTCCACATTGATGAATACATTTCTCATCTCCAACCTACCAGACC
GTGCCTGATTTTTCAGAGAGTGCAGATTACTGGTACTATGCCTCTGGGGTTACAGTTGAA
GATTTTGAATTTGTTGCAAAGGTCTGTATCGGGCACTATGCATACGTGAGAAATACATG
CAGAAGTCGTTTTCAGAGGTTCCCTAAAACCCCTTCCAAATACTTGCAGAACATTGATGGT
GAGGCTTGGGTAGCAAATGAGAGCTTCTATCCAGTCTTTACTCCTCTGTGAAGAAGGGA
GAGGACCCCTTCCGAACAGACAACCTTCCCTGAAAACCTGGGCTATCACCTCAAAATGAAG
GACGGTGTAGTTTACGTCTATCCTAATGAAGCAGCAGTCAGCAAAGATGAGCCTAAGCCA
CTTCTTACCCAAATCTGGACACCTTCTAGACGATATGAATTTTTTACTTGCTTTAATT
GCTCAAGGACCTGTTAAGACCTATACCCACCGGCGCTGAAGTTCCTCTCCTCCAAGTTC
CAGGTCCATCAGATGCTTAACGAGATGGACGAGTTAAAGGAGCTGAAAAACAACCCCCAC
CGAGATTTTTATAACTGCAGGAAGTGGACACCCATATCCATGCAGCCGCTTGATGAAC
CAGAAACATCTGCTGCGTTTTTAAAGAAATCTTACCAAAATGATGCTGACAGAGTGGTC
TATAGCACCAAAGAGAAGATCTGACCCATAAGGAACTTTTTGCTAAATAAAAATGCAT
CCTTATGACCTGACTGTTGATTCTCTGGATGTTTATGCTGGACGCCAGACCTTCCAGCGT
TTTGATAAGTTCATGACAAATATAATCCTGTAGGAGCAAGTGAAGTACGGGACCTCTAC
TTGAAGACAGACAATTACATTAATGGGAATATTTTCCACTATCATCAAGGAGGTAGGT
GCGGACCTGGTGGAGGCCAAGTACCAGCATGCTGAGCCCCGCTGTCCATCTATGGCCGC
AGTCTGATGAGTGGAGCAAACCTCCTCCTGGTTCGTCTGCAATCGCATCCACTGCCCC
AACATGACATGGATGATCCAGGTTCCAGGATCTATGATGTGTTCCGTTCCAAGAATTTT
CTTCCACATTTTGGAAAAATGCTGGAGAATATTTTATGCCAGTGTGTTGAGGCCACCATC
AACCCCAAGGCTGACCCAGAAGTCAAGTCTTCCCTCAAGCATATCACTGGCTTTGACAGT
GTGGATGATGAGTCCAAACACAGTGGCCACATGTTCTCCTCAAGAGTCCCAAGCCCCAG
GAGTGGACATTGAAAAAGATCCATCTTACACTTACTATGCCTACTACATGTATGCAAAC
ATCATGGTGTCTAACAGCCTGAGAAAGGAACGAGGCATGAATACGTTTCTGTTCCGACCT
CACTGTGGAGAAGCTGGAGCCCTCACCCATCTCATGACAGCATTGATGATGAGCAGATGAT
ATCTCTCATGGCCTAAATTTAAAAAAGAGTCCCGTGTACAGTACTTGTTTTTCTTAGCC
CAAATTTCCATCGCCATGTCACCACTAAGTAACAATAGCCTATTTCTAGAGTATGCCAAA
AATCCTTTTTTGGATTTCTTCCAGAAAGGGCTAATGATCTCACTGTCTACAGATGACCCA
ATGCAATTCACCTTTACCAAGGAGCCCCAATGGAAGAATATGCTATTGCTGCACAAGTC
TTCAAGCTGAGCACCTGTGATATGTGCGAAGTGGCAAGGAACAGTGTCTTGCAGTGTGGA
ATTTCTCATGAGGAGAAAGTAAAGTTTCTGGGCGACAATTACCTTGAGGAAGGCCCTGCT
GGAAATGATATCCGGAGGACAAATGTAGCCAAAATCCGCATGGCCTATCGCTATGAAACC
TGGTGTTATGAACTCAATTTAATTGCTGAGGGTCTTAAATCAACAGAATAA

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Restriction Sites: Please inquire

ACCN: NM_001172626

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:	<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_001172626.1</u> , <u>NP_001166097.1</u>
RefSeq Size:	2414 bp
RefSeq ORF:	2331 bp
Locus ID:	270
UniProt ID:	<u>P23109</u>
Cytogenetics:	1p13.2
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
Gene Summary:	<p>Adenosine monophosphate deaminase 1 catalyzes the deamination of AMP to IMP in skeletal muscle and plays an important role in the purine nucleotide cycle. Two other genes have been identified, AMPD2 and AMPD3, for the liver- and erythrocyte-specific isoforms, respectively. Deficiency of the muscle-specific enzyme is apparently a common cause of exercise-induced myopathy and probably the most common cause of metabolic myopathy in the human. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Feb 2010]</p> <p>Transcript Variant: This variant (2) lacks an in-frame coding exon in the 5' region, as compared to variant 1. The resulting isoform (2) is shorter than isoform 1.</p>