

## Product datasheet for **SC320160**

### AMPD2 (NM\_139156) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD2 (NM_139156) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMPD2
Synonyms:	PCH9; SPG63
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_139156.2  
 CTGTTGCGTGACTCCCCACAGTCCGGCCGCGGAGTCCGACCCTGAATGCCAGGGAGT  
 GTTGAGAGAAATCTGGACGAGTTTCGGGTCCCGCTCCCTTGGGAGCACGTGGCCTACCAG  
 CCTCTCGATTGCAGGGTTGGGTGGTCGCGACACCGGGGTGCGCTTGAGGCCAGTCCGGCT  
 GCCGAGGTCTGCGGGAGTCCACCTCCGGCCAGCTGGCAATTTTGAAGACTGCCTTACTT  
 TCCCCATCTCAGTGCCAGGGCAGGGGCCCTTGGAGTACTTGGCTGGGGTCTGTGGCCCG  
 ATCCCCCTGCCGTCCCTCAGGACCCGGGCTTTCTGCTGTACAGACTTCTCGTGGGCGAGCC  
 TCCCCCTCGGAACCTCGGGCATCATGGCCTCAGAGGCTCGGGGTGGTCTGGGGGCCCTCCG  
 CTGCGACTGCCCCGATCCCTGCCGGGCCCGCCCCCTGCCTCAAGCACTCCCGCTCGAC  
 CTGCGCACGTCTATGGATGGCAAATGCAAGGAGATCGCCGAGGAGCTGTTCAACCCGCTCA  
 CTGGCTGAGAGCGAGCTCCGTAGTGCCCGTATGAGTTCCCCGAGGAGAGCCCCATTGAA  
 CAGCTGGAGGAGCGGCGGACGCGCTGGAGCGGCAGATCAGCCAGGATGTCAAGCTGGAG  
 CCAGACATCTGCTTCGGGCCAAGCAAGATTTCTGAAGACGGACAGTACTCGGACCTA  
 CAGCTCTACAAGGAACAGGGTGAGGGGCAGGGTGACCGGAGCCTGCGGGAGCGTGATGTG  
 CTGGAACGGGAGTTTCAGCGGGTCAACATCTCTGGGGAGGAGAAGTGTGGGGTGCCTTC  
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 GAAAAGCCTCTGGAGACCCGGACCTATGAACAGGGCCCCGACACCCCTGTGTCTGCTGAT  
 GCCCGGTGCACCCCTGCGCTGGAGCAGCACCCTATGAGCACTGTGAGCCAAGCACC  
 ATGCCCTGGGACCTGGGCTTGGGTCTGCGCATGGTGGGGGTGGTGGCAGCTTACACC  
 CGCAGGGAACCCGACGAGCATTGCTCAGAGGTGGAGCTGCCATACCCTGACCTGCAGGAA  
 TTTGTGGCTGACGTCAATGTGCTGATGGCCCTGATTATCAATGGCCCCATAAAGTCATTC  
 TGCTACCGCCGGCTGCAGTACCTGAGCTCCAAGTTCCAGATGCATGTGCTACTCAATGAG  
 ATGAAGGAGCTGGCCGCCAGAAGAAAGTGCCACACCGAGATTTCTACAACATCCGCAAG  
 GTGGACACCCACATCCATGCCTCGTCTGCATGAACCAGAAGCATCTGCTGCGCTTCATC  
 AAGCGGGCAATGAAGCGGCACCTGGAGGAGATCGTGCACGTGGAGCAGGGCCGTGAACAG  
 ACGCTGCGGGAGGTCTTTGAGAGCATGAATCTCACGGCCTACGACCTGAGTGTGGACACG



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CTGGATGTGCATGCGGACAGGAACACTTTCCATCGCTTTGACAAGTTAATGCCAAATAC
AACCTATTGGGGAGTCCGTCTCCGAGAGATCTTCAAGACGGACAACAGGGTATCT
GGGAAGTACTTTGCTCACATCATCAAGGAGGTGATGTCAGACCTGGAGGAGCAAAATAC
CAGAAATGCAGAGCTGCGGCTCTCCATTTACGGGCGCTCGAGGGATGAGTGGGACAAGCTG
GCGCGCTGGGCCGTATGCACCCGCTGCACTCCCCAACGTGCGCTGGCTGGTGCAGGTG
CCCCGCTCTTTGATGTGTACCGTACCAAGGGCCAGCTGGCCAATTCCAGGAGATGCTG
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CCCTATGCCTACTACCTGTACTACACCTTTGCCAACATGGCCATGTTGAACACCTGCGC
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CACCACCTGGTGTGAGCCTTTCATGCTGGCTGAGAACATTTCCACGGGCTCCTTCTGCGC
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CGCGGCTCATGGTCTCCCTGTCCACTGATGATCCCTTGCAAGTCCACTTACCAAGGAG
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TGGCTGGGACCCAACTATACCAAGGAAGGCCCTGAGGGGAATGACATCCGCCGGACCAAT
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ACGTTTTGTCTCAGACCCCGCCATGCTGTGTGGTCTCTGCATGTCTCCATTCTTCTCT
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GCCTGGGAATCTGCTCATTGTTGTTGGGCTCAGGTATTGAGCCTGATGGCCAGGTATT
GAGGGCCTCCCCTGCTGGTGGCCCTGTCCTGGGATCCTCAGAAGCCTGACTGTCCATAGG
GCTTCTCCAGTGTCCACAGGGGCTTGGGATGGTTGTGGGGGCTGGCCCTCTAGCCTTT
CCGGTCTTCTGGGCAATCTAAGCCTTGGCCAGGGCCGAAAGTTTAGGCCCTGTCTTG
TTCATGTAGCCGAGGGGACGGGGGACCTCTACACCTCTGCTGTGGGCACGGGGCTGC
TGAGGGTCTGTGGAACCTCAGCAGCTCTGCACTGGGTAGAGCTGGGCTAGAGCTCAGTC
ACAGGCCTGGGCTTCTGGCCTGAGTGGGTAGACGCAGGGCCAGAGGTGCTGGACCACA
TCTCCGCAAGTCACTGCCAGCAGCCTTCTCCGTCTGTCCCCAGCCACGTGCTCCTT
GGGTGTACAGTTCTGTGCCTCTGTGGGAGAGGGCAGCTGCCTTGTGTTATGTCTGGGGC
CACAGTTGCTGCAAAGTCTGGATCTGCCACTCAACCCCGGGAGTGGTGTCCCAGTGTG
GCTCCCAGAGCTTTGACCAGATTGTGATCCCAGCTGGCCCTATGTTGTGTTCTGGACTG
AGGCCTTTGCTGTGAACTGCAAGTGTTCATACGAACCATCTTTCCTAGTGCATGAGAAAT
AAAGATTATTTAAGTAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_139156
- 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:**

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\\_139156.2](#), [NP\\_631895.1](#)

**RefSeq Size:** 3761 bp

**RefSeq ORF:** 2397 bp

**Locus ID:** 271

**UniProt ID:** [Q01433](#)

**Cytogenetics:** 1p13.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Purine metabolism

**Gene Summary:** The protein encoded by this gene is important in purine metabolism by converting AMP to IMP. The encoded protein, which acts as a homotetramer, is one of three AMP deaminases found in mammals. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

Transcript Variant: This variant (2) lacks the exon containing the translational start site compared to variant 4. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.