

Product datasheet for **SC314856**

AMPD2 (NM_004037) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD2 (NM_004037) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMPD2
Synonyms:	PCH9; SPG63
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004037, the custom clone sequence may differ by one or more nucleotides

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ATGAGAAATCGTGGCCAGGGCCTCTCCGCCTGCGGAGCCGCTGCTTCCTGCATCAGTCA
CTCCCGCTGGGGGCGGGGCGGAGGAAGGGTGGATGTGGCAGAGCCAGGCCAGCCG
TGCCGCTCAGACTCCCCCGCTGTCGCCCGCTGGTCCCAGCCATGGCATCCTATCCATCT
GGCTCTGGCAAGCCAAAGCCAAATATCCCTTTAAGAAGCGGGCCAGCCTGCAGGCCCTCC
ACTGCAGCTCCAGAGGCTCGGGGTGGTCTGGGGGCCCTCCGCTGCAGTCTGCCGATCC
CTGCCGGGCCCGCCCCCTGCCTCAAGCACTTCCGCTCGACCTGCGCAGTCTATGGAT
GGCAAATGCAAGGAGATCGCCGAGGAGCTTCAACCCGCTCACTGGCTGAGAGCGAGCTC
CGTAGTGCCCGTATGAGTTCGCCGAGGAGAGCCCATTTGAACAGCTGGAGGAGCGGCG
CAGCGGCTGGAGCGGCAGATCAGCCAGGATGTCAAGCTGGAGCCAGACATCCTGTTGCG
GCCAAGCAAGATTTCTGAAGACGGACAGTGACTCGGACCTACAGCTCTACAAGGAACAG
GGTGAGGGGCGAGGTGACCGGAGCTGCGGGAGCGTGATGTGCTGGAACGGGAGTTTCAG
CGGGTACCATCTCTGGGAGGAGAAGTGTGGGTGCCGTTACAGACCTGCTGGATGCA
GCCAAGAGTGTGGTGC GGCGCTTTCATCCGGGAGAAGTACATGGCCCTGTCCCTGCAG
AGCTTCTGCCACCACCGCCGTACCTGCAGAGCTGGCTGAAAAGCCTCTGGAGACC
CGGACCTATGAACAGGGCCCCGACACCCCTGTGTCTGCTGATGCCCGGTGCACCCCTT
GCGCTGGAGCAGCACCCGTATGAGCACTGTGAGCCAAGCACCATGCCTGGGGACCTGGGC
TTGGGTCTGCGCATGGTGC GGGTGTGGTGCACGCTCTACACCCGAGGGAACCCGACGAG
CATTGCTCAGAGGTGGAGCTGCCATACCCTGACCTGCAGGAATTTGTGGCTGACGTCAAT
GTGCTGATGGCCCTGATTATCAATGGCCCCATAAAGTCATTCTGCTACCGCCGGCTGCAG
TACCTGAGCTCCAAGTTCAGATGCATGTGCTACTCAATGAGATGAAGGAGCTGGCCGCC
CAGAAGAAGTGCCACACCGAGATTTCTACAACATCCGCAAGGTGGACACCCACATCCAT
GCCTCGTCTGCATGAACCAGAAGCATCTGCTGCGCTTCAAGCGGGCAATGAAGCGG
CACCTGGAGGAGATCGTGACGTTGGAGCAGGGCCGTAACAGACGCTGCGGGAGGTCTTT
GAGAGCATGAATCTCACGGCCTACGACCTGAGTGTGGACACGCTGGATGTGCATGCGGAC
AGGAACACTTTCCATCGCTTTGACAAGTTAATGCCAAATACAACCCATTGGGGAGTCC
GTCCTCCGAGAGATCTTCATCAAGACGGACAACAGGGTATCTGGGAAGTACTTTGCTCAC
ATCATCAAGGAGGTGATGTCAGACCTGGAGGAGAGCAAAATACCAGAATGCAGAGCTGCGG
CTCTCCATTTACGGGCGCTCGAGGGATGAGTGGGACAAGCTGGCGCGCTGGGCCGTATG
CACCGCTGCACTCCCCAACGTGCGCTGGCTGGTGCAGGTGCCCGCCTCTTTGATGTG
TACCGTAGCAAGGGCCAGCTGGCCAACCTCCAGGAGATGCTGGAGAACATCTTCTGCCA
CTGTTTCGAGGCCACTGTGCACCCCTGCCAGCCACCCGGAAGTGCATCTCTTTAGAGCAC
GTGGATGGTTTTGACAGCGTGGATGATGAGTCCAAGCCTGAAAACCATGTCTTCAACCTG
GAGAGCCCCCTGCCTGAGGCGTGGGTGGAGGAGGACAACCCACCCATGCCTACTACCTG
TACTACACCTTTGCCAACATGGCCATGTTGAACCACCTGCGCAGGCGAGAGGGGCTCCAC
ACGTTTGTGCTGAGGCCACACTGTGGGGAGGCTGGGCCCATCCACCACCTGGTGTGAGCC
TTCATGCTGGCTGAGAACATTTCCACGGGCTCCTTCTGCGCAAGGCCCGCTCCTGCAG
TACCTGTACTACCTGGCCAGATCGGCATCGCCATGTCTCCGCTCAGCAACAACAGCCTC
TTCCTCAGCTATCACCGAATCCGCTACCGGAGTACCTGTCCCGGCGCCTCATGGTCTCC
CTGTCCACTGATGATCCCTTGCAGTTCCACTTACCAAGGAGCCGCTGATGGAGGAGTAC
AGCATCGCCACCCAGGTGTGGAAGCTCAGCTCCTGCGATATGTGTGAGCTGGCCGCAAC
AGCGTGCTCATGAGCGGCTTCTCGCACAAGGTAAGAGCCACTGGCTGGGACCCAACTAT
ACCAAGGAAGGCCCTGAGGGGAATGACATCCGCCGGACCAATGTGCCAGACATCCGCGT
GGCTACCGCTACGAGACCCTGTGCCAGGAGCTGGCGCTCATCACGCAGGCAGTCCAGAGT
GAGATGCTGGAGACCATTCCAGAGGAGGCGGTATCACCATGAGCCAGGGCCTCAA

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Restriction Sites: Please inquire
ACCN: NM_004037

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:	NM_004037.6 , NP_004028.3
RefSeq Size:	3932 bp
RefSeq ORF:	2640 bp
Locus ID:	271
UniProt ID:	Q01433
Cytogenetics:	1p13.3
Domains:	A_deaminase
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 4. Variants 1 and 4 both encode the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. CCDS Note: The coding region has been updated to start at a downstream in-frame start codon that is supported by conservation data.</p>