

Product datasheet for **RC202938**

AMPD2 (NM_139156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD2 (NM_139156) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMPD2
Synonyms:	PCH9; SPG63
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC202938 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCTCAGAGGCTCGGGTGGTCTGGGGGCCCTCCGCTGCAGTCTGCCGATCCCTGCCGGGCCCCG
CCCCCTGCCTCAAGCACTTCCCCTCGACTGCGCACGTCTATGGATGGCAAATGCAAGGAGATCGCCGA
GGAGCTGTTACCCGCTCACTGGCTGAGAGCGAGCTCCGTAGTCCCCGTATGAGTTCCCGAGGAGAGC
CCCATTGAACAGCTGGAGGAGCGCGGCAGCGGCTGGAGCGGCAGATCAGCCAGGATGTCAAGCTGGAGC
CAGACATCTGCTTCGGGCAAGCAAGATTTCTGAAGACGGACAGTACTCGGACCTACAGCTCTACAA
GGAACAGGGTGGGGGAGGGTACCAGGAGCTGCGGGAGCGTGTGTCTGGAACGGGAGTTTCAGCGG
GTCACCATCTCTGGGAGGAGAAGTGTGGGGTCCGTTACAGACCTGCTGGATGCAGCCAAAGTGTGG
TGGGGGCGCTCTTCATCCGGGAGAAGTACATGGCCCTGTCCCTGCAGAGCTTCTGCCACCACCCGCCG
CTACCTGCAGCAGCTGGCTGAAAAGCCTCTGGAGACCCGGACCTATGAACAGGGCCCCGACACCCCTGTG
TCTGCTGATGCCCGGTGCACCCCTGCGCTGGAGCAGCACCCGTATGAGCACTGTGAGCCAAGCACCA
TGCCCTGGGGACCTGGGCTTGGTCTGCGCATGGTGCAGGGTGTGGTGCACGTCTACACCCGAGGGAACC
CGACGAGCATTGCTCAGAGGTGGAGCTGCCATACCCTGACCTGCAGGAATTTGTGGCTGACGTCAATGTG
CTGATGGCCCTGATTATCAATGGCCCCATAAAGTCATTCTGTACCGCCGGCTGCAGTACTGAGCTCCA
AGTTCCAGATGCATGTGCTACTCAATGAGATGAAGGAGCTGGCCGCCAGAAGAAAGTGCACACCCGAGA
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CGCTTCAAGCGGGCAATGAAGCGGCACCTGGAGGAGATCGTGCACGTGGAGCAGGGCCGTGAACAGA
TGCTGCGGGAGGCTTTTGGAGAGCATGAATCTCACGGCTACGACCTGAGTGTGGACACGCTGGATGTGCA
TGGCGACAGGAACAACATTTCCATCGCTTTGACAAGTTAATGCCAAATACAACCCTATTGGGGAGTCCGTC
CTCCGAGAGATCTTCATCAAGACGGACAACAGGGTATCTGGGAAGTACTTTGCTCACATCATCAAGGAGG
TGATGTGACAGCTGGAGGAGAGCAAATACCAGAATGCAGAGCTGCGGCTCTCCATTTACGGGCGCTCGAG
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GTGCAGGTGCCCCGCTCTTTGATGTGTACCGTACCAAGGGCCAGCTGGCCAACCTCCAGGAGATGCTGG
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AGAGCACGTGGATGGTTTTGACAGCGTGGATGATGAGTCCAAGCCTGAAAACCATGTCTTCAACCTGGAG
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TGGGGAGGCTGGGCCATCCACCACCTGGTGTGACGCTTCATGCTGGCTGAGAACATTTCCACGGGCTC
TTCTGCGCAAGGCCCGCTCTGCAGTACTGTACTACCTGGCCAGATCGGCATCGCCATGTCTCCGC
TCAGCAACAACAGCCTCTTCTCAGTATCACCGGAATCCGCTACCGGAGTACCTGTCCCGCGGCCTCAT
GGTCTCCCTGTCCACTGATGATCCCTTGCAGTTCACCTTACCAAGGAGCCGCTGATGGAGGAGTACAGC
ATCGCCACCCAGGTGTGGAAGCTCAGCTCCTGCGATATGTGTGAGCTGGCCCGAACAGCGTGTCTATGA
GCGGCTTCTCGACAAGGTAAGAGCCACTGGCTGGGACCCAACATACCAAGGAAGGCCCTGAGGGGAA
TGACATCCGCCGACCAATGTGCCAGACATCCGCTGGGCTACCGCTACGAGACCCTGTGCCAGGAGCTG
GCGCTCATCAGCAGGCAGTCCAGAGTGAGATGCTGGAGACCATTCCAGAGGAGGCGGGTATCACCATGA
GCCCAGGGCCTCAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202938 protein sequence
Red=Cloning site Green=Tags(s)

MASEARGGLGAPPLQSARSLPGPAPCLKHFPLDLRTSMDGKCKEIAEELFTRSLAESELRSAPYEFPEES
PIEQLEERRQLERQISQDVKLEPDILLRAKQDFLKTDSDSLQLYKEQGEQGDRSLRERDVLEREFQR
VTISGEEKCGVPFTDLLDAAKSVVRALFIREKYMALSLQSFCTTRRYLQQLAEKPLETRTYEQGPDPV
SADAPVHPPALEQHPYEHCEPSTMPGDLGLGLRMVRGVVHVYTRREPDEHCSEVELPYPDLQEFVADVNV
LMALIINGPIKSFYRRLQYLSSKFQMHVLLNEMKELAAQKKVPHRDFYNIIRKVDTHIHASSCMNQKHL
RFIKRAMKRHLEEVHVEQGREQTLREVFESMNL TAYDLSVDTLDVHADRNTHFRFDKFNAYNP.IGESV
LREIFIKTDNRVSGKYFAHIIKEVMSDLEESKYQNAELRLSIYGRSRDEWDKLARWAVMHRVHSPNVRWL
VQVPRLFDVYRTKGQLANFQEMLENIIFLPLFEATVHPASHPELHLFLEHVDGFDSVDDSKPENHVFNLE
SPLPEAWVEEDNPPYAYLYYTFANMAMLNHLRRQRFHTFVLRPHCGEAGPIHHLVSAFMLAENISHGL
LLRKAPVLQYLYLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVSLSTDDPLQFHFTKEPLMEEYS
IATQVWKLSSCDMCELARNSVLMGFSHKVKSHWLGPNYTKEGPEGNDIRRTNVPDIRVGYRYETLCQEL
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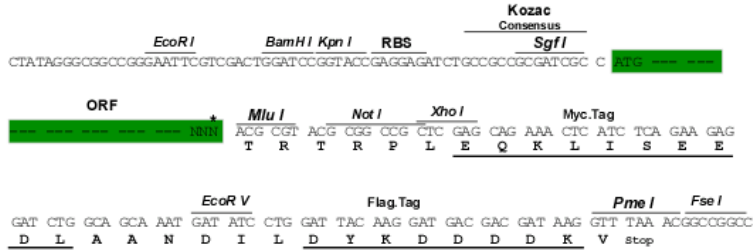
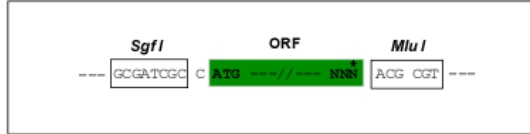
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6209_h12.zip

Restriction Sites: Sgfl-Mlul

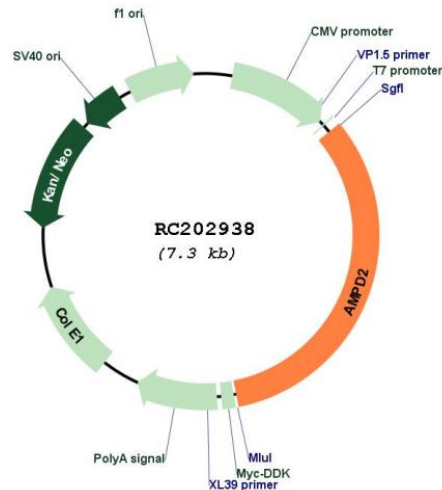
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_139156

ORF Size: 2394 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

RefSeq: [NM_139156.3](#)

RefSeq Size: 3785 bp

RefSeq ORF: 2397 bp

Locus ID: 271

UniProt ID: [Q01433](#)

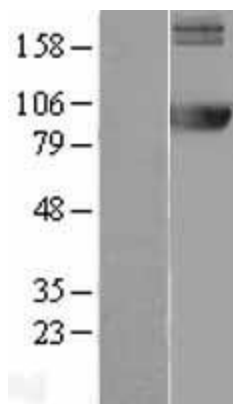
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

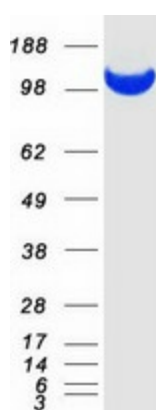
MW: 92.1 kDa

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]

Product images:



Western blot validation of overexpression lysate (Cat# [LY408387]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202938 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AMPD2 protein (Cat# [TP302938]). The protein was produced from HEK293T cells transfected with AMPD2 cDNA clone (Cat# RC202938) using MegaTran 2.0 (Cat# [TT210002]).