

Product datasheet for **RC234851**

AMPD2 (NM_001257361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD2 (NM_001257361) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMPD2
Synonyms:	PCH9; SPG63
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234851 representing NM_001257361
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGGCAAATGCAAGGAGATCGCCGAGGAGCTGTTCACCCGCTCACTGGCTGAGAGCGAGCTCCGTA
 GTGCCCGTATGAGTTCCCCGAGGAGAGCCCATTTGAACAGCTGGAGGAGCGCGCAGCGGCTGGAGCG
 GCAGATCAGCCAGGATGTCAAGCTGGAGCCAGACATCCTGCTTCGGGCCAAGCAAGATTTCTGAAGACG
 GACAGTGACTCGGACCTACAGCTCTACAAGGAACAGGGTGAGGGGCAGGGTGACCGGAGCCTGCGGGAGC
 GTGATGTGCTGGAACGGGAGTTTCAGCGGGTACCATCTCTGGGGAGGAGAAGTGTGGGGTCCGTTTAC
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 CCTATGAACAGGGCCCCGACACCCCTGTGTCTGCTGATGCCCGGTGCACCCCTCGCTGGAGCAGCA
 CCCGTATGAGCACTGTGAGCCAAGCACCATGCCTGGGGACCTGGGCTTGGGTCTGCGCATGTTGCGGGT
 GTGGTGCACGTCTACACCCGAGGAACCCGACGAGCATTGCTCAGAGGTGGAGCTGCCATACCCTGACC
 TGCAGGAATTTGTGGCTGACGTCAATGTCTGATGGCCCTGATTATCAATGGCCCCATAAAGTATTCTG
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 CGTGCACGTGGAGCAGGGCCGTGAACAGACGCTGCGGGAGGTCTTTGAGAGCATGAATCTCACGGCTAC
 GACCTGAGTGTGGACACGCTGGATGTGCATGCGGACAGGAACACTTTCCATCGCTTTGACAAGTTAATG
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 TGAGCTGGCCCGCAACAGCGTGTCTATGAGCGGCTTCTCGACAAGGTAAGAGCCACTGGCTGGGACCC
 AACTATACCAAGGAAGGCCCTGAGGGGAATGACATCCGCCGACCAATGTGCCAGACATCCGCGTGGGCT
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 CATTCCAGAGGAGCGGGTATCACCATGAGCCCAGGGCCTCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234851 representing NM_001257361
Red=Cloning site Green=Tags(s)

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MDGKCKEIAEELFTRSLAESELSAPYEFPEESPIEQLEERRQLERQISQDVKLEPDILLRAKQDFLKT
DSDSDLQLYKEQEGGDRSLRERDVLEREFQRVTISGEEKCGVPFTDLLDAKSVVRFALFIREKYMALS
LQSFCTTRRYLQQLAEKPLETRTYEQGPDPVSADAPVHPPALEQHPYEHCEPSTMPGDLGLLRMVRG
VVHVVYTRREPDEHCSEVELPYDDLQEFVADVNLMLALINGPIKSFYRRLQYLSSKFQMHVLLNEMKEL
AAQKKVPHRDFYNIRKVDTHIHASSCMNQKHLRFIKRAMKRHLEEIVHVEQGREQTLREVFE SMNLTAY
DLSDVDTLDVHADRNTHFRFDKFNAYNPIGESVLRIFIKTDNRVSGKYFAHIKEVMSDLEESKYQNAE
LRLSIYGRSRDEWDLARWAVMHRVHSPNVRWL VQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHP
ASHPELHLFLEHVDGFSDVDES PENHVFNLESPLPEAWVEEDNPPYAYLYYTFANMAMLNHLRRQRG
FHTFVLRPHCGEAGPIHHLVSFMLAENISHGLLLRKAPVLQYL YLAQIGIAMSPLSNNSLFLSYHRNP
LPEYLSRGLMVS LSTDDPLQHFHTKEPLMEEYSIATQVWKLSSCDMCELARNSVLSMGFSHKVKSHWLG
NYTKEGPEGNDIRRTNVPDIRVGYRYETLCQELALITQAVQSEMLETIPEEAGITMSPGPQ
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001257361

ORF Size: 2283 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.

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_001257361.1](#), [NP_001244290.1](#)

RefSeq Size: 3421 bp

RefSeq ORF: 2286 bp

Locus ID: 271

UniProt ID: [Q01433](#)

Cytogenetics: 1p13.3

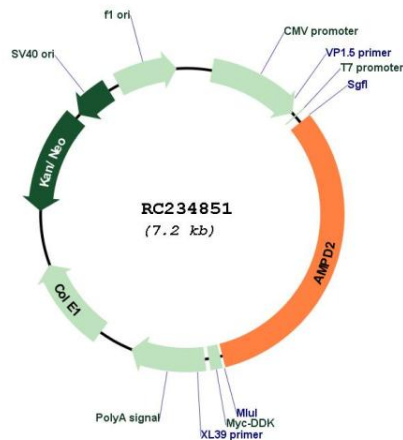
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

MW: 88.7 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:



Circular map for RC234851