

Product datasheet for **RC230341**

AMPD3 (NM_001172431) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD3 (NM_001172431) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMPD3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC230341 representing NM_001172431
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGTCGTCGCAACCCGCTGAGATGCCCGGCAGTTTCCCAAGCTGAACATCTCTGAAGTGGATG
 AGCAAGTCCGGCTCCTGGCGGAGAAGGTGTTGCTAAAGTGCTCCGAGAAGAGGACAGCAAAGATGCCCT
 GTCCTGTTCCTGTCCTCCAGAGGACTGCCCATCGGGCAAAGGAAGCCAAAGGAGAGGGAGCTGCAGAAG
 GAGCTGGCAGAGCAGAAGTCTGTGGAGACCGCAAAAAGAAAGAAAAGTTTCAAGATGATTCGGTCCCACT
 CCCTGTCTCTGCAATGCCGCCACAGCAAGATTGGAAGGGCCCCCGGCAGCCAGTCCGGCCATGTCTCC
 CACAACCCTGTGGTCACTGGAGCCACTTCCCTGCCACGCCAGCACCCATGCCATGCCTGAGTCCAG
 CGGGTACCATCAGCGGAGATTACTGTGCCGGATCACTTTGGAGGACTATGAGCAGGCAGCCAAGAGTC
 TGGCAAGGCCATATGATCCGGGAGAAGTATGCGCGGCTCGCTACCACCGTCCCGCGGATCACATC
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 CCACTGCCCCAGGAAGACCCCTACTGCCTGGATGATGCACCCCCAACCTGGATTACTTGGTCCACATGC
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 CCCCAGCTGGAGACCTACACGGTGGACATGAGCCACATCCTGGCTCTCATCACCAGTGGCCCCACGAAA
 ACCTATTGTCACCGGCGACTGAACCTTCTGGAATCCAAGTTCAGCCTTCATGAGATGTTAAACGAAATGT
 CCGAGTTCAAAGAGTTGAAGAGTAACCCCCACCGGACTTCTATAACGTGAGAAAGGTGGACACACACAT
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 GACAGGACTGTGGCAGAGAAGCGGGCCGGAAGATCACCTGCGGAGGTGTTTGACGGCTGCACATGG
 ACCCTACGACCTCACTGTGGACTCACTGGATGTCCACGCGGGCCGCGAGACATTCACCCGCTTTGACAA
 GTTCAACTCCAAATACAACCCTGTGGGGCCAGTGAGCTGCGTGACCTGTATTTGAAAACCTGAAAACAT
 CTGGGAGGAGAGTACTTTGCTCGGATGGTCAAGGAGGTTGCCCGGAGCTGGAGGAGAGCAAGTACCAGT
 ACTCAGAGCCACGGCTCTCCATCTACGGCCGAGTCTGAGGAGTGGCCAACTGGCCTACTGGTTCAT
 CCAGCACAAGGTCTACTCTCCAACATGCGCTGGATCATCCAGGTGCCCGGATTTATGACATATTTAGG
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 TCAACCCCAAGATCATCGAGAGCTTACCTCTTCTTAAATATGTGACGGGTTTGACAGCGTGGATGA
 TGAGTCCAAGCACAGCGACCACATGTTTTCCGACAAGAGCCAAACCCGACGTCTGGACCAGTGAAGCAG
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 AGCGCGGCTGAGCACGTTCTGTTCCGGCCGACTGTGGGAAGCCGGCTCCATCACCCACCTGGTGTCTC
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 TACTACCTTGCTCAGATCCCCATTGCCATGTCTCCTTTAGCAACAACAGTTTGTTCCTCGAATATTTCA
 AGAACCTCTGAGGGAATTCCTACACAAGGACTGCATGTTTCTTTCCACCGATGACCCCATGCAGTT
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 GACCTGTGTGAGATCGCCAGGAACAGCGTGTGCAGAGCGCCTCTCGCATCAGGAAAAGCAAAGTTTC
 TGGGACAAAATTATTATAAGAAGGACCTGAAGGAAATGATATTCGAAAGACAAATGTGGCTCAGATCCG
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 ATCACCGCCTTGACCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230341 representing NM_001172431
 Red=Cloning site Green=Tags(s)

MALSSEPAEMPRQFPKLNISEVDEQVRLLAEKVFAKVLREEDSKDALSLFTVPEDCPIGQKEAKERELQK
 ELAEQKSVETAKRKKSFKMIRSQSLSLQMPQQDWKGGPPAASPAMSPTTPVVTGATSLPTPAPYAMPEFQ
 RVTISGDY CAGITLEDYEQA AKSLAKALMIREKYARLAYHRFP RITSQYLGHPRADTAPPEEGLPDFHPP
 PLPQEDPYCLDDAPPNDYLVHMQGGILFVYDNKKMLEHQEPHSLPYPDLETYTVDMSHILALITDGPTK
 TYCHRRLLNFLESKFSLHEMLNEMSEFKELKSNPHRDFYNVRKVVDTHIHAAACMNQKHLRFIKHTYQTEP
 DRTVAEKRGRKITLRQVFDGLHMDPYDLTVDSL DVHAGRQTFHRFDKFN SKYNPVGASELRDLYLKTENY
 LGGEYFARMVKEVARELEESKYQYSEPRLSIYGRSPEEWPNLAYWFIQHKVYSPNMRWIIQVPRIYDIFR
 SKKLLPNFGKMLENIFLPLFKATINPQDHRELHLFLKYVTGFDSVDDSEKHS DHMFSDKSPNPDVWTSEQ
 NPPYSYLLYYMYANIMVLNLRERGLSTFLFRPHCGEAGSITHLVSAFLTADNISHGLLLKKSPLVLYL
 YYLAQIPIAMSPLSNNSLFLEYSKNPLREFLHKGLHVSLSTDDPMQFHYTKEALMEEYIAAQVWKLSTC
 DLCEIARNSVLQSGLSHQEKQKFLGQNYKKEGPEGNDIRKTNVAQIRMAFRYETLCNELSFLSDAMKSEE
 ITALTN

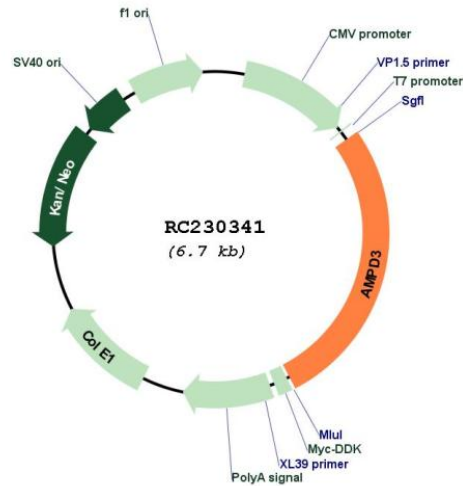
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001172431

ORF Size: 2331 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_001172431.1](#), [NP_001165902.1](#)

RefSeq Size: 3994 bp

RefSeq ORF: 1827 bp

Locus ID: 272

UniProt ID: [Q01432](#)

Cytogenetics:	11p15.4
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
MW:	89.7 kDa
Gene Summary:	<p>This gene encodes a member of the AMP deaminase gene family. The encoded protein is a highly regulated enzyme that catalyzes the hydrolytic deamination of adenosine monophosphate to inosine monophosphate, a branch point in the adenylate catabolic pathway. This gene encodes the erythrocyte (E) isoforms, whereas other family members encode isoforms that predominate in muscle (M) and liver (L) cells. Mutations in this gene lead to the clinically asymptomatic, autosomal recessive condition erythrocyte AMP deaminase deficiency. Alternatively spliced transcript variants encoding different isoforms of this gene have been described. [provided by RefSeq, Jul 2008]</p>