OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC217651

AMPD3 (NM_001025389) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD3 (NM_001025389) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMPD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC217651 representing NM_001025389
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCGGCAGTTTCCCAAGCTGAACATCTCTGAAGTGGATGAGCAAGTCCGGCTCCTGGCGGAGAAGG
TGTTTGCTAAAGTGCTCCGAGAAGAGGACAGCAAAGATGCCCTGTCCCTGTTCACTGTCCCAGAGGACTG
CCCCATCGGGCAAAAGGAAGCCAAGGAGAGGGAGCTGCAGAAGGAGCTGGCAGAGCAGAAGTCTGTGGAG
ACCGCAAAAAGAAAGAAAAGTTTCAAGATGATTCGGTCCCAGTCCCTGTCTCTGCAAATGCCGCCACAGC
AAGATTGGAAGGGCCCCCCGGCAGCCAGTCCGGCCATGTCTCCCACAACCCCTGTGGTCACTGGAGCCAC
TTCCCTGCCCACGCCAGCACCCTATGCCATGCCTGAGTTCCAGCGGGTCACCATCAGCGGAGATTACTGT
GCCGGGATCACTTTGGAGGACTATGAGCAGGCAGCCAAGAGTCTGGCCAAGGCCCTAATGATCCGGGAGA
AGTATGCGCGGCTCGCCTACCACCGCTTCCCGCGGATCACATCCCAGTACCTGGGTCATCCGCGGGCGGA
TACTGCACCTCCGGAAGAGGGCCTTCCAGACTTCCACCCTCCTCCACTGCCCCAGGAAGACCCCTACTGC
CTGGATGATGCACCCCCCAACCTGGATTACTTGGTCCACATGCAGGGGGGCATCCTCTTTGTGTATGATA
ACAAGAAGATGCTGGAGCACCAGGAGCCGCACAGCCTACCCTACCCCGACCTGGAGACCTACACGGTGGA
CATGAGCCACATCCTGGCTCTCATCACCGATGGCCCCACGAAAACCTATTGTCACCGGCGACTGAACTTT
CTGGAATCCAAGTTCAGCCTTCATGAGATGTTAAACGAAATGTCCGAGTTCAAAGAGTTGAAGAGTAACC
CCCACCGGGACTTCTATAACGTGAGAAAGGTGGACACACACATCCATGCGGCCGCCTGCATGAACCAAAA
GCATCTGCTGCGCTTCATCAAGCACACATACCAGACGGAGCCTGACAGGACTGTGGCAGAGAAGCGGGGC
CGGAAGATCACCCTGCGGCAGGTGTTTGACGGCCTGCACATGGACCCCTACGACCTCACTGTGGACTCAC
TGGATGTCCACGCGGGCCGGCAGACATTCCACCGCTTTGACAAGTTCAACTCCAAATACAACCCTGTGGG
GGCCAGTGAGCTGCGTGACCTGTATTTGAAAACTGAAAACTATCTGGGAGGAGAGTACTTTGCTCGGATG
GTCAAGGAGGTTGCCCGGGAGCTGGAGGAGAGCAAGTACCAGTACTCAGAGCCACGGCTCTCCATCTACG
GCCGCAGTCCTGAGGAGTGGCCCAACCTGGCCTACTGGTTCATCCAGCACAAGGTCTACTCTCCCAACAT
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AAGATGCTGGAGAACATCTTCCTGCCCCTTTTCAAGGCCACTATCAACCCCCAAGATCATCGAGAGCTTC
ACCTCTTCCTTAAATATGTGACGGGGTTTGACAGCGTGGATGATGAGTCCAAGCACAGCGACCACATGTT
TTCCGACAAGAGCCCAAACCCGGACGTCTGGACCAGTGAGCAGAACCCACCCTACAGCTACTACCTGTAC
TACATGTATGCCAACATCATGGTGCTCAACAACCTCCGCAGGGAGCGCGGCCTGAGCACGTTCCTGTTCC
GGCCGCACTGTGGGGAAGCCGGCTCCATCACCCACCTGGTGTCTGCCTTCCTCACTGCTGACAACATTTC
CCACGGGCTGCTCCTCAAGAAGAGTCCGGTATTGCAGTATCTCTACTACCTTGCTCAGATCCCCATTGCC
ATGTCTCCTCTTAGCAACAACAGTTTGTTCCTCGAATATTCCAAGAACCCTCTGAGGGAATTCCTACACA
AGGGACTGCATGTTTCTCTTTCCACCGATGACCCCATGCAGTTCCACTACACGAAGGAAGCACTTATGGA
AGAATATGCCATTGCAGCTCAAGTGTGGAAGCTGAGCACCTGCGACCTGTGTGAGATCGCCAGGAACAGC
GTGCTGCAGAGCGGCCTCTCGCATCAGGAAAAGCAAAAGTTTCTGGGACAAAATTATTATAAAGAAGGAC
CTGAAGGAAATGATATTCGAAAGACAAATGTGGCTCAGATCCGGATGGCATTCCGATATGAGACCTTATG
CAATGAGCTCAGCTTCCTGTCTGATGCTATGAAATCAGAAGAGATCACCGCCTTGACCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

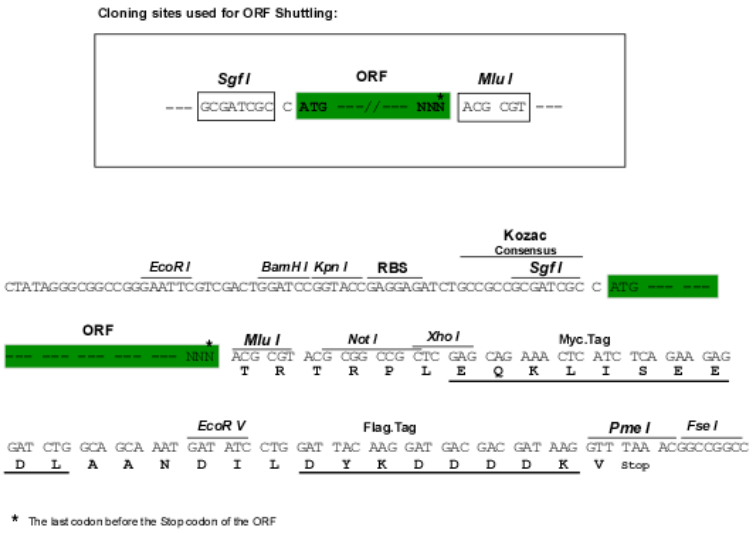
>RC217651 representing NM_001025389
Red=Cloning site Green=Tags(s)

MPRQFPKLNISEVDEQVRLLAEKVFAKVLREEDSKDALSLFTVPEDCPIGQKEAKERELQKELAEQKSVE
TAKRKKSFKMIRSQSLSLQMPPQQDWKGPPAASPAMSPTTPVVTGATSLPTPAPYAMPEFQRVTISGDYC
AGITLEDYEQAAKSLAKALMIREKYARLAYHRFPRITSQYLGHPRADTAPPEEGLPDFHPPPLPQEDPYC
LDDAPPNLDYLVHMQGGILFVYDNKKMLEHQEPHSLPYPDLETYTVDMSHILALITDGPTKTYCHRRLNF
LESKFSLHEMLNEMSEFKELKSNPHRDFYNVRKVDTHIHAAACMNQKHLLRFIKHTYQTEPDRTVAEKRG
RKITLRQVFDGLHMDPYDLTVDSLDVHAGRQTFHRFDKFNSKYNPVGASELRDLYLKTENYLGGEYFARM
VKEVARELEESKYQYSEPRLSIYGRSPEEWPNLAYWFIQHKVYSPNMRWIIQVPRIYDIFRSKKLLPNFG
KMLENIFLPLFKATINPQDHRELHLFLKYVTGFDSVDDESKHSDHMFSDKSPNPDVWTSEQNPPYSYYLY
YMYANIMVLNNLRRERGLSTFLFRPHCGEAGSITHLVSAFLTADNISHGLLLKKSPVLQYLYYLAQIPIA
MSPLSNNSLFLEYSKNPLREFLHKGLHVSLSTDDPMQFHYTKEALMEEYAIAAQVWKLSTCDLCEIARNS
VLQSGLSHQEKQKFLGQNYYKEGPEGNDIRKTNVAQIRMAFRYETLCNELSFLSDAMKSEEITALTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001025389

ORF Size: 2301 bp

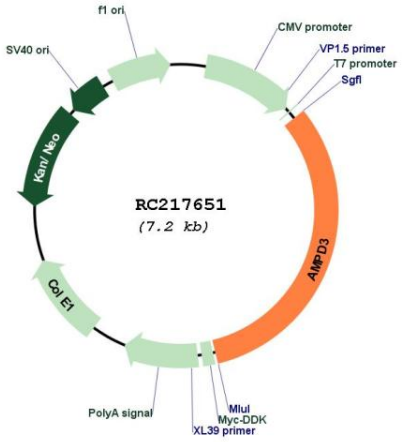
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001025389.2
RefSeq Size:	4334 bp
RefSeq ORF:	2304 bp
Locus ID:	272
UniProt ID:	Q01432
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
MW:	88.6 kDa
Gene Summary:	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]

Product images:



Circular map for RC217651