

Product datasheet for **RG217651**

AMPD3 (NM_001025389) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD3 (NM_001025389) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMPD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG217651 representing NM_001025389
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGGCAGTTTCCCAAGCTGAACATCTCTGAAGTGGATGAGCAAGTCCGGCTCCTGGCGGAGAAGG
 TGTTTGCTAAAGTGTCCGAGAAGAGGACAGCAAAGATGCCCTGTCCCTGTTCACTGTCCAGAGGACTG
 CCCCATCGGGCAAAGGAAGCCAAGGAGAGGGAGCTGCAGAAGGAGCTGGCAGAGCAGAAGTCTGTGGAG
 ACCGCAAAAAGAAAGAAAAGTTTCAAGATGATTCGGTCCCAGTCCCTGTCTCTGCAAATGCCGCCACAGC
 AAGATTGGAAGGGCCCCCGGCAGCCAGTCCGGCCATGTCTCCACAACCCCTGTGGTCACTGGAGCCAC
 TTCCCTGCCACGCCAGCACCCATGCCATGCCTGAGTTCAGCGGGTACCATCAGCGGAGATTACTGT
 GCCGGGATCACTTTGGAGGACTATGAGCAGGCAGCCAAGAGTCTGGCCAAGGCCCTAATGATCCGGGAGA
 AGTATGCGCGGCTCGCTACCACCGTTCCCGCGGATCACATCCCAGTACCTGGGTATCCGCGGGCGGA
 TACTGCACCTCCGGAAGAGGGCCTTCCAGACTTCCACCCTCCTCCACTGCCCCAGGAAGACCCCTACTGC
 CTGGATGATGCACCCCCAACCTGGATTACTTGGTCCACATGCAGGGGGGATCCTCTTTGTGTATTGATA
 ACAAGAAGATGTGGAGCACCAGGAGCCGCACAGCCTACCTACCCGACCTGGAGACCTACACGGTGGGA
 CATGAGCCACATCCTGGCTCTCATCACCATGGCCCCACGAAAACCTATTGTACCCGGCGACTGAACTTT
 CTGGAATCCAAGTTCAGCCTTTCATGAGATGTTAAACGAAATGTCCGAGTTCAAAGAGTTGAAGAGTAACC
 CCCACCGGACTTCTATAACGTGAGAAAGTGGACACACACATCCATGCGGCCGCTGCATGAACAAAA
 GCATCTGCTGCGCTTCAAGCACACATACCAGACGGAGCCTGACAGGACTGTGGCAGAGAAGCGGGGC
 CGGAAGATCACCTGCGCAGGTGTTGACGGCTGCACATGGACCCCTACGACCTCACTGTGGACTCAC
 TGGATGTCCACGCGGGCCGCGAGACATCCACCCTTTGACAAGTTCAACTCAAATAACAACCCCTGTGGG
 GGCCAGTGAGCTGCGTGACCTGTATTTGAAAACGAAAACCTATCTGGGAGGAGAGTACTTTGCTCGGATG
 GTCAAGGAGGTTGCCCGGAGCTGGAGGAGAGCAAGTACCAGTACTCAGAGCCACGGCTCTCCATCTACG
 GCCGAGTCTGAGGAGTGGCCAACTGGCCTACTGGTTCATCCAGCACAAGGTCTACTCTCCCAACAT
 GCGCTGGATCATCCAGGTGCCCGGATTTATGACATATTTAGGTCAAAGAAGCTGCTGCCAACTTTGGG
 AAGATGCTGGAGAACATCTTCTGCCCTTTTCAAGGCCACTATCAACCCCAAGATCATCGAGAGCTTC
 ACCTCTTCTTAAATATGTGACGGGTTTGACAGCGTGGATGATGAGTCCAAGCACAGCGACCACATGTT
 TTCGACAAGAGCCAAACCCGACGTCTGGACCAGTGAAGCAGAACCCACCTACAGCTACTACCTGTAC
 TACATGTATGCCAACATCATGGTCTCAACAACCTCCGACGGAGCGCGCCTGAGCACGTTCTGTTC
 GGCCGCACTGTGGGAAGCCGGCTCCATCACCCACCTGGTGTCTGCCTTCTCACTGCTGACAACATTT
 CCACGGGCTGCTCCTCAAGAAGAGTCCGGTATTGCAATATCTACTACCTTGGTCTCAGATCCCCATTGCC
 ATGTCTCCTTTAGCAACAACAGTTTGTTCCTCGAATATTTCAAAGAACCCTCTGAGGGAATTCCTACACA
 AGGGACTGCATGTTTCTTTCCACCGATGACCCCATGCAGTTCCTACTACCAAGGAAGCACTTATGGA
 AGAATATGCCATTGCAGCTCAAGTGTGGAAGCTGAGCACCTGCGACCTGTGTGAGATCGCCAGGAACAGC
 GTGCTGCAGAGCGGCCTCTGCATCAGGAAAAGCAAAGTTTCTGGGACAAAATTATTATAAAGAAGGAC
 CTGAAGGAAATGATATTCGAAAGACAAAATGTGGCTCAGATCCGGATGGCATTCCGATATGAGACCTTATG
 CAATGAGCTCAGCTTCTGTCTGATGCTATGAAATCAGAAGAGATCACCGCCTTGACCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG217651 representing NM_001025389
 Red=Cloning site Green=Tags(s)

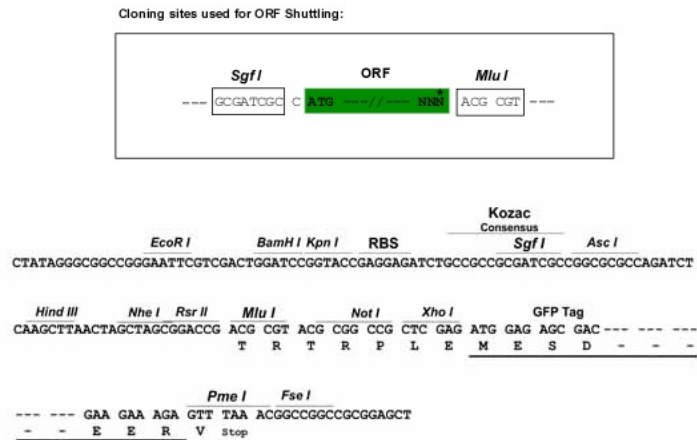
```

MPRQFPKLNISEVDEQVRLLAEKVFAKVLREEDSKDALSLFTVPEDCPIGQKEAKERELQKELAEQKSVE
TAKRKKSFKMIRSQSLSLQMPQQDWKPPAASPAMSPPTPVVTGATSLPTPAPYAMPEFQRVTISGDYC
AGITLEDYEQAASLAKALMIREKYARLAYHRFPRIITSQYLGHPRADTAPPEEGLPDFHPPPLQEDPYC
LDDAPPNLDYLVHMGGILFVYDNKKMLEHQEPHSLPYPDLETYTVDMSHILALITDGPTKTYCHRRLLNF
LESKFSLHEMLNEMSEFKELKSNPHRDFYNVRKVDTHIHAAACMNQKHLLRFIKHTYQTEPDRTVAEKRG
RKITLRQVFDGLHMPDYDLTVDSLVDHAGRQTFHRFDKFNKYNPVGASELRDLYLKTENYLGGYFARM
VKEVARELEESKYQYSEPRLSIYGRSPEEWPNLAYWFIQHKVYSPNMRWIIQVPRIYDIFRSKLLPNFG
KMLENIFLPLFKATINPQDRELHLFLKYVTGFDSDVDESKHSDHMFSDKSPNDVWTSEQNPPYSYYLY
YMYANIMVLNLRERGLSTFLFRPHCGEAGSITHLVSAFLTADNISHGLLLKSPVLQYLYLAQIPIA
MSPLSNLSLFLEYSKNPLREFLHKGLHVSLSTDDPMQFHYTKEALMEEYATAAQVWKLSTCDLCEIARNS
VLQSGLSHQEKQKFLGQNYKQEGPEGNDIRKTNVAQIRMAFRYETLCNELSFLSDAMKSEEITALTN
  
```

TRTRPLE - GFP Tag - V

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](#)

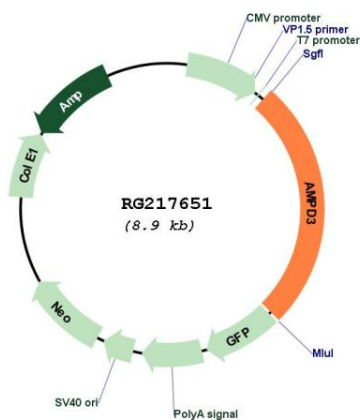
Cytogenetics: 11p15.4

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

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 RG217651