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Product datasheet for RG230341

AMPD3 (NM_001172431) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD3 (NM_001172431) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMPD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG230341 representing NM_001172431
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTGTCGTCCGAACCCGCTGAGATGCCGCGGCAGTTTCCCAAGCTGAACATCTCTGAAGTGGATG
AGCAAGTCCGGCTCCTGGCGGAGAAGGTGTTTGCTAAAGTGCTCCGAGAAGAGGACAGCAAAGATGCCCT
GTCCCTGTTCACTGTCCCAGAGGACTGCCCCATCGGGCAAAAGGAAGCCAAGGAGAGGGAGCTGCAGAAG
GAGCTGGCAGAGCAGAAGTCTGTGGAGACCGCAAAAAGAAAGAAAAGTTTCAAGATGATTCGGTCCCAGT
CCCTGTCTCTGCAAATGCCGCCACAGCAAGATTGGAAGGGCCCCCCGGCAGCCAGTCCGGCCATGTCTCC
CACAACCCCTGTGGTCACTGGAGCCACTTCCCTGCCCACGCCAGCACCCTATGCCATGCCTGAGTTCCAG
CGGGTCACCATCAGCGGAGATTACTGTGCCGGGATCACTTTGGAGGACTATGAGCAGGCAGCCAAGAGTC
TGGCCAAGGCCCTAATGATCCGGGAGAAGTATGCGCGGCTCGCCTACCACCGCTTCCCGCGGATCACATC
CCAGTACCTGGGTCATCCGCGGGCGGATACTGCACCTCCGGAAGAGGGCCTTCCAGACTTCCACCCTCCT
CCACTGCCCCAGGAAGACCCCTACTGCCTGGATGATGCACCCCCCAACCTGGATTACTTGGTCCACATGC
AGGGGGGCATCCTCTTTGTGTATGATAACAAGAAGATGCTGGAGCACCAGGAGCCGCACAGCCTACCCTA
CCCCGACCTGGAGACCTACACGGTGGACATGAGCCACATCCTGGCTCTCATCACCGATGGCCCCACGAAA
ACCTATTGTCACCGGCGACTGAACTTTCTGGAATCCAAGTTCAGCCTTCATGAGATGTTAAACGAAATGT
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ACTCAGAGCCACGGCTCTCCATCTACGGCCGCAGTCCTGAGGAGTGGCCCAACCTGGCCTACTGGTTCAT
CCAGCACAAGGTCTACTCTCCCAACATGCGCTGGATCATCCAGGTGCCCCGGATTTATGACATATTTAGG
TCAAAGAAGCTGCTGCCAAACTTTGGGAAGATGCTGGAGAACATCTTCCTGCCCCTTTTCAAGGCCACTA
TCAACCCCCAAGATCATCGAGAGCTTCACCTCTTCCTTAAATATGTGACGGGGTTTGACAGCGTGGATGA
TGAGTCCAAGCACAGCGACCACATGTTTTCCGACAAGAGCCCAAACCCGGACGTCTGGACCAGTGAGCAG
AACCCACCCTACAGCTACTACCTGTACTACATGTATGCCAACATCATGGTGCTCAACAACCTCCGCAGGG
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TGCCTTCCTCACTGCTGACAACATTTCCCACGGGCTGCTCCTCAAGAAGAGTCCGGTATTGCAGTATCTC
TACTACCTTGCTCAGATCCCCATTGCCATGTCTCCTCTTAGCAACAACAGTTTGTTCCTCGAATATTCCA
AGAACCCTCTGAGGGAATTCCTACACAAGGGACTGCATGTTTCTCTTTCCACCGATGACCCCATGCAGTT
CCACTACACGAAGGAAGCACTTATGGAAGAATATGCCATTGCAGCTCAAGTGTGGAAGCTGAGCACCTGC
GACCTGTGTGAGATCGCCAGGAACAGCGTGCTGCAGAGCGGCCTCTCGCATCAGGAAAAGCAAAAGTTTC
TGGGACAAAATTATTATAAAGAAGGACCTGAAGGAAATGATATTCGAAAGACAAATGTGGCTCAGATCCG
GATGGCATTCCGATATGAGACCTTATGCAATGAGCTCAGCTTCCTGTCTGATGCTATGAAATCAGAAGAG
ATCACCGCCTTGACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

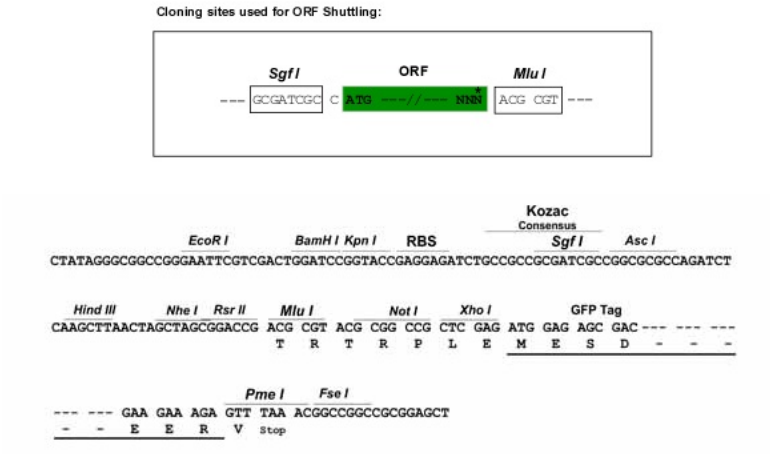
>RG230341 representing NM_001172431
Red=Cloning site Green=Tags(s)

MALSSEPAEMPRQFPKLNISEVDEQVRLLAEKVFAKVLREEDSKDALSLFTVPEDCPIGQKEAKERELQK
ELAEQKSVETAKRKKSFKMIRSQSLSLQMPPQQDWKGPPAASPAMSPTTPVVTGATSLPTPAPYAMPEFQ
RVTISGDYCAGITLEDYEQAAKSLAKALMIREKYARLAYHRFPRITSQYLGHPRADTAPPEEGLPDFHPP
PLPQEDPYCLDDAPPNLDYLVHMQGGILFVYDNKKMLEHQEPHSLPYPDLETYTVDMSHILALITDGPTK
TYCHRRLNFLESKFSLHEMLNEMSEFKELKSNPHRDFYNVRKVDTHIHAAACMNQKHLLRFIKHTYQTEP
DRTVAEKRGRKITLRQVFDGLHMDPYDLTVDSLDVHAGRQTFHRFDKFNSKYNPVGASELRDLYLKTENY
LGGEYFARMVKEVARELEESKYQYSEPRLSIYGRSPEEWPNLAYWFIQHKVYSPNMRWIIQVPRIYDIFR
SKKLLPNFGKMLENIFLPLFKATINPQDHRELHLFLKYVTGFDSVDDESKHSDHMFSDKSPNPDVWTSEQ
NPPYSYYLYYMYANIMVLNNLRRERGLSTFLFRPHCGEAGSITHLVSAFLTADNISHGLLLKKSPVLQYL
YYLAQIPIAMSPLSNNSLFLEYSKNPLREFLHKGLHVSLSTDDPMQFHYTKEALMEEYAIAAQVWKLSTC
DLCEIARNSVLQSGLSHQEKQKFLGQNYYKEGPEGNDIRKTNVAQIRMAFRYETLCNELSFLSDAMKSEE
ITALTN

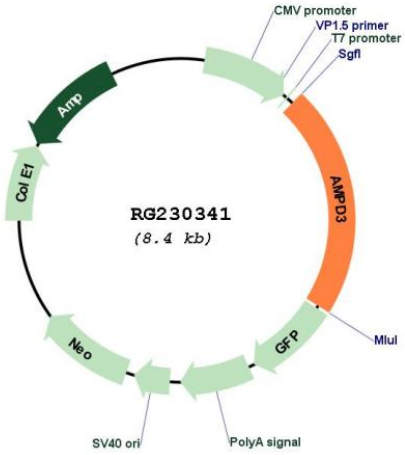
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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
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]