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Product datasheet for RG217919

AMPD1 (NM_000036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD1 (NM_000036) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMPD1
Synonyms:	MAD; MADA; MMDD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG217919 representing NM_000036
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCTGTTCAAACTCCCAGCTGAAGAGAAACAAATTGATGATGCAATGCGCAACTTTGCTGAAAAAG
TGTTTGCCTCTGAAGTCAAAGATGAAGGAGGTCGTCAGGAGATTTCCCCCTTTGATGTGGATGAGATCTG
TCCGATTTCTCATCATGAGATGCAAGCACACATATTCCATCTGGAGACTCTGTCCACCTCCACAGAAGCC
AGGAGAAAAAAGCGTTTCCAAGGACGGAAGACTGTTAATTTGTCCATTCCACTAAGTGAAACATCTTCCA
CCAAACTGTCCCACATTGATGAATACATTTCCTCATCTCCAACCTACCAGACCGTGCCTGATTTTCAGAG
AGTGCAGATTACTGGTGACTATGCCTCTGGGGTTACAGTTGAAGATTTTGAAATTGTTTGCAAAGGTCTG
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TGTGAAGAAGGGAGAGGACCCCTTCCGAACAGACAACCTTCCTGAAAACCTGGGCTATCACCTCAAAATG
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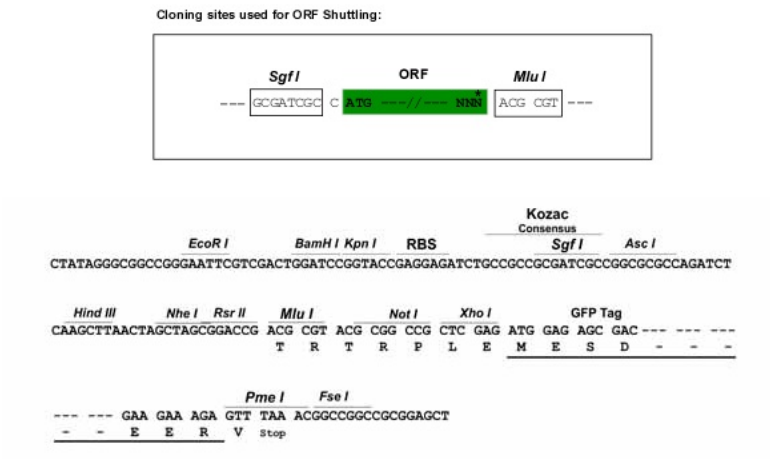
CTGGGCGACAATTACCTTGAGGAAGGCCCTGCTGGAAATGATATCCGGAGGACAAATGTAGCCCAAATCC
GCATGGCCTATCGCTATGAAACCTGGTGTTATGAACTCAATTTAATTGCTGAGGGTCTTAAATCAACAGA
A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_000036
ORF Size:	2241 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_000036.1, NP_000027.1
RefSeq Size:	2341 bp
RefSeq ORF:	2244 bp
Locus ID:	270
UniProt ID:	P23109
Cytogenetics:	1p13.2

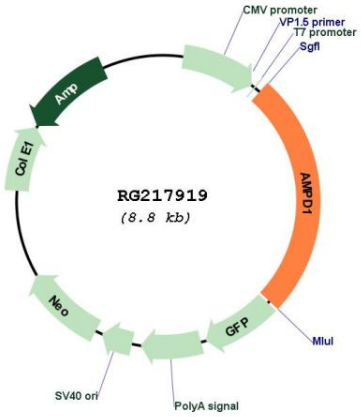
Domains: A_deaminase

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Gene Summary: Adenosine monophosphate deaminase 1 catalyzes the deamination of AMP to IMP in skeletal muscle and plays an important role in the purine nucleotide cycle. Two other genes have been identified, AMPD2 and AMPD3, for the liver- and erythocyte-specific isoforms, respectively. Deficiency of the muscle-specific enzyme is apparently a common cause of exercise-induced myopathy and probably the most common cause of metabolic myopathy in the human. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RG217919