

Product datasheet for **RC212077**

AMPD3 (NM_000480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMPD3 (NM_000480) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMPD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC212077 representing NM_000480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGTCGTCGCAACCCGCTGAGATGCCCGGCAGTTTCCCAAGCTGAACATCTCTGAAGTGGATG
 AGCAAGTCCGGCTCCTGGCGGAGAAGGTGTTGCTAAAGTGCTCCGAGAAGAGGACAGCAAAGATGCCCT
 GTCCTGTTCCTGTCCTCCAGAGGACTGCCCATCGGGCAAAGGAAGCCAAAGGAGAGGGAGCTGCAGAAG
 GAGCTGGCAGAGCAGAAGTCTGTGGAGACCGCAAAAAGAAAAGTTTCAAGATGATTCGGTCCCAAGT
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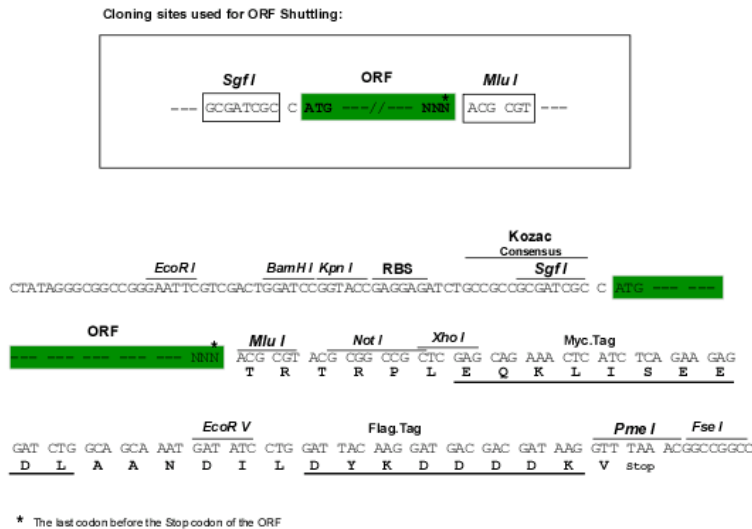
Protein Sequence: >RC212077 representing NM_000480
Red=Cloning site Green=Tags(s)

MALSSEPAEMPRQFPKLNISEVDEQVRLLAEKVFAKVLREEDSKDALSLFTVPEDCPIGQKEAKERELQK
ELAEQKSVETAKRKKSFKMIRSQSLSLQMPPQQDWKGPAAASPAMSPPTPVVTGATSLPTPAPYAMPEFQ
RVTISGDY CAGITLEDYEQA AKSLAKALMIREKYARLAYHRFP RITSQYLGHPRADTAPPEEGLPDFHPP
PLPQEDPYCLDDAPPNDYLVHMGGILFVYDNKKMLEHQEPHSLPYPDLETYTVDMSHILALITDGPTK
TYCHRRLNFLSKFSLHEMLNEMSEFKELKSNPHRDFYNVRKVVDTHIHAAACMNQKHLRFIKHTYQTEP
DRTVAEKRGRKITLRQVFDGLHMDPYDLTVDSL DVHAGRQTFHRFDKFNSKYNPVGASELRDLYLKTENY
LGGEYFARMVKEVARELEESKYQYSEPRLSIYGRSPEEWPNLAYWFIQHKVYSPNMRWIIQVPRIYDIFR
SKKLLPNFGKMLENIFLPLFKATINPQDHRELHLFLKYVTGFDSVDDSKHSDHMFSDKSPNDVWTSEQ
NPPYSYLYMYANIMVLNLRERGLSTFLFRPHCGEAGSITHLVSAFLTADNISHGLLLKKSPVLQYL
YYLAQIPIAMSPLSNNSLFLEYSKNPLREFLHKGLHVSLSTDDPMQFHYTKEALMEEYIAAAQVWKLSTC
DLCEIARNSVLQSGLSHQEKQKFLGQNYKEGPEGNDIRKTNVAQIRMAFRYETLCNELSFLSDAMKSEE
ITALTN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4071_b07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_000480

ORF Size: 2328 bp

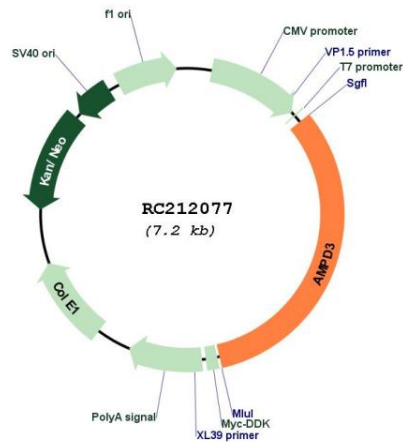
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

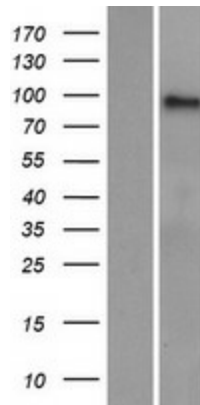
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_000480.3
RefSeq Size:	4371 bp
RefSeq ORF:	2331 bp
Locus ID:	272
UniProt ID:	Q01432
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
MW:	89.5 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>

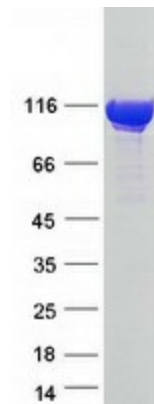
Product images:



Circular map for RC212077



Western blot validation of overexpression lysate (Cat# [LY424690]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212077 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AMPD3 protein (Cat# [TP312077]). The protein was produced from HEK293T cells transfected with AMPD3 cDNA clone (Cat# RC212077) using MegaTran 2.0 (Cat# [TT210002]).