

## Product datasheet for RC216874

### APRT (NM\_000485) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** APRT (NM\_000485) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** APRT  
**Synonyms:** AMP; APRTD  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC216874 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGACTCCGAGCTGCAGCTGGTTGAGCAGCGGATCCGACGCTTCCCGACTTCCCCACCCAGGGC  
TGGTATTCAGGGACATCTCGCCCGTCTGAAGGACCCCGCTCCTCCGCGCCGCATCGGCTCCTGCGC  
GCGACACCTGAAGGCGACCCACGGGGCCGCATCGACTACATCGCAGGCCTAGACTCCCGAGGCTTCTCT  
TTTGGCCCTCCCTGGCCAGGAGCTTGGACTGGGCTGCGTGCTCATCCGAAAGCGGGGGAAGCTGCCAG  
GCCCCACTCTGTGGCCTCCTATTCCTGGAGTACGGGAAGGCTGAGCTGGAGATTAGAAAGACGCCCT  
GGAGCCAGGACAGAGGTTGGTCGTGCTGGATGATCTGCTGGCCACTGGTGAACCATGAACGCTGCCTGT  
GAGCTGCTGGGCCGCTGCAGGCTGAGGTCCTGGAGTGCCTGAGCCTGGTGGAGCTGACCTCGCTTAAGG  
GCAGGGAGAAGCTGGCACCTGTACCTTCTTCTCTCTCTCTGAGTATGAG

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC216874 protein sequence  
Red=Cloning site Green=Tags(s)

MADSELQLVEQIRSFDFPTPGVVFRDISPVLKDPASFRAAIGLLARHLKATHGGRIDYIAGLDSRGFL  
FGPSLAQELGLGCVLIRKRGKLPGPTLWASYSLEYGKAELEIQKDALEPGQRVVVDDLLATGGTMNAAC  
ELLGRLQAEVLECVSLVELTSLKGREKLAPVFFSLLQYE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6446\\_e02.zip](https://cdn.origene.com/chromatograms/mk6446_e02.zip)



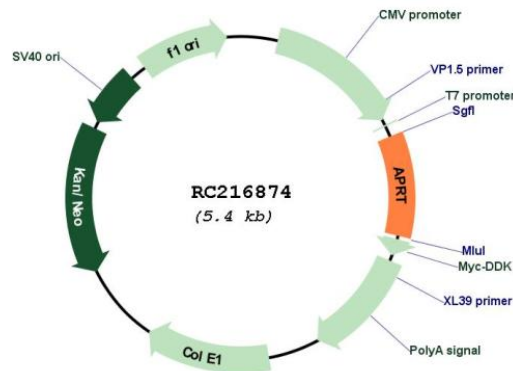
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_000485

ORF Size: 540 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](#)

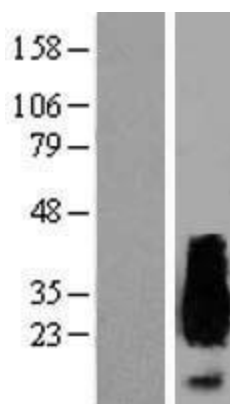
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

RefSeq: [NM\\_000485.3](#)

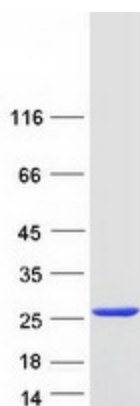
RefSeq Size:	807 bp
RefSeq ORF:	543 bp
Locus ID:	353
Domains:	Pribosyltran
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
MW:	19.6 kDa

**Gene Summary:** Adenine phosphoribosyltransferase belongs to the purine/pyrimidine phosphoribosyltransferase family. A conserved feature of this gene is the distribution of CpG dinucleotides. This enzyme catalyzes the formation of AMP and inorganic pyrophosphate from adenine and 5-phosphoribosyl-1-pyrophosphate (PRPP). It also produces adenine as a by-product of the polyamine biosynthesis pathway. A homozygous deficiency in this enzyme causes 2,8-dihydroxyadenine urolithiasis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Western blot validation of overexpression lysate (Cat# [LY424695]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216874 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified APRT protein (Cat# [TP316874]). The protein was produced from HEK293T cells transfected with APRT cDNA clone (Cat# RC216874) using MegaTran 2.0 (Cat# [TT210002]).