

Product datasheet for **SC119854**

APRT (NM_000485) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APRT (NM_000485) Human Untagged Clone
Tag:	Tag Free
Symbol:	APRT
Synonyms:	AMP; APRTD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000485, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGACTCCGAGCTGCAGCTGGTTGAGCAGCGGATCCGCAGCTTCCCGACTTCCCCACCCAGGCG  
TGGTATTCAGGGACATCTCGCCGTCCTGAAGGACCCCGCTCCTTCCGCGCCGCATCGGCCTCCTGGC  
GCGACACCTGAAGGCGACCCACGGGGCCGCATCGACTACATCGCAGGCCTAGACTCCCAGGCTTCTCT  
TTTGGCCCTCCCTGGCCAGGAGCTTGGACTGGGCTGCGTGCTCATCCGAAAGCGGGGAAGCTGCCAG  
GCCCCACTCTGTGGCCCTCCTATCCCTGGAGTACGGGAAGGCTGAGCTGGAGATTCAGAAAGACGCCCT  
GGAGCCAGGACAGAGGTGGTCGTCTGGATGATCTGCTGGCCACTGGTGAACCATGAACGCTGCCTGT  
GAGCTGCTGGCCGCTGCAGGCTGAGGTCCTGGAGTGCCTGAGCCTGGTGGAGCTGACCTCGTTAAGG  
GCAGGGAGAAGCTGGCACCTGTACCCTTCTCTCTCCTGCAGTATGAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000485 unedited
 GCGCCCCGTTGCCGCATATGGGCGGTAGCGTGTACGGTGGGAGGTCTATATAAGCAGAGC
 TCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTC
 GGCACGAGGGGGCTGCCGCTGGCTCTTCGCACGCGGCCATGGCCGACTCCGAGCTGCAGC
 TGGTTGAGCAGCGGATCCGCAGCTTCCCCGACTCCCCACCCAGGCGTGGTATTCAGGG
 ACATCTCGCCCGTCTGAAGGACCCCGCTCTTCCGCGCCGCATCGCCTCTGGGCGC
 GACACCTGAAGGCGACCCACGGGGCCGCATCGACTACATCGCAGGCTGAGCTGGAGATT
 CAGAAAGACGCCCTGGAGCCAGGACAGAGGGTGGTCGTCGGATGATCTGCTGGCCACT
 GGTGGAACCATGAACGCTGCCTGTGAGCTGCTGGGCCGCTGCAGGCTGAGGTCCTGGAG
 TGCGTGAGCTGGTGGAGCTGACCTCGCTTAAGGGCAGGGAGAAGCTGGCACCTGTACCC
 TTCTTCTCTCTCCTGCAGTATGAGTGACCACAGGGCTCCAGCCCAACATCTCCAGCTG
 GATCCCAGGAAATATCAGCCTTGGGCAACTGCAGTGACCAGGGGACCCGGCTGCCACA
 GGAACACATTCCTTTGCTGGGTTTCAGCGCTCTCTGNGGCTGGAAGTGCCAAAGCT
 GGGGCANAGCTGTGTTTCAGCCACTGAACCAATTACACACAGCGGGAGAACGCAGTA
 NACAGCTTCCCNACAAAAAAAAAAAAAAAAAAAAAAAACTCGACTTAGATTGCGGCCGCG
 GTCATAGCTGTTNCCCTGACAGATCCCGGGTGGGCATCCTGTGACCCCTCCAGTGCCCT
 TCTGGCCCTGNANNNNGCACTCAGTGCCACCACNTNNGTCTATAAANTAAGTGCAT
 CATTTGTCTGACTAGTGCCTCATAATATATGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000485 unedited
 TTAGTTTTAAACCTTTTTTTTTTTTTTTTTGGGGGATTCTGTTTACTGCGTTCTCCCG
 CTGTGTGTAATTGGGTTCAAGTGTGGCTGAAACACAGCTTTGCCCCAGGCTTTGGCACTTC
 CAGCCCCAGGAGAGGCGCTGAACCCAGCAAAGGAATGTGTTCCCTGTGGGCAGCCGGTG
 CCCTGGTCACTGCAGTTGCCAAAGGCTGATATTTCCCTGGGATCCAGCTGGAGATGTTG
 GGCTGGGAGGCCCTGTGGTCACTCATACTGCAGGAGAGAGAAGAAGGGTACAGGTGCCAG
 CTTCTCCCTGCCCTTAAGCGAGGTCAGCTCCACCAGGCTCACGCACTCCAGGACCTCAGC
 CTGCAGGCGGCCAGCAGCTCACAGGCAGCGTTTCATGGTTCACCAAGTGGCCAGCAGATC
 ATCCACGACGACCACCCTCTGTCTGGCTCCAGGGCGTCTTTCTGAATCTCCAGCTCAGC
 CTGCGATGTAGTCGATGCGGCCCCCGTGGTTCGCTTCAGGTGTCGCGCCAGGAGGCCGA
 TGCCGGCGCGGAAAGAGGCGGNGTCTTCAGGACGGGCGAGATGTCCTGAATACCACGC
 CTGGGGTGGGGAAGTGGGGAAGCTGCGGATCCGCTGCTCAACCAGCTGCAGCTCGGAGT
 CGGCCATGGGCGCGTGCGAAGAGCCAGCGGCAGCCCCCTCGTGCCGAATTCGCGGCCGC
 TGCANAAAGAACAGTAGCCTGTATTCTATAGTGTACCTAAATGAGCTCTGGCTATATAG
 ACCTNCCACCGTACACGCCTTACCGCCATTTGCGGTCACGGGNCGGGGTATTACGAC
 ATTTTGGAAAGTCCCGGTGATTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_000485

Insert Size:

800 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_000485.2 , NP_000476.1
RefSeq Size:	807 bp
RefSeq ORF:	543 bp
Locus ID:	353
UniProt ID:	P07741
Cytogenetics:	16q24.3
Domains:	Pribosyltran
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>