

Product datasheet for **SC320704**

Phosphoribosyl pyrophosphate amidotransferase (PPAT) (NM_002703) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phosphoribosyl pyrophosphate amidotransferase (PPAT) (NM_002703) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phosphoribosyl pyrophosphate amidotransferase
Synonyms:	ATASE; GPAT; PRAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002703.3
 GCAGGTCCTTCCACGTGCTTTCGGCGGCGACATGGAGCTGGAGGAGTTGGGGATCCGAGA
 GGAATGTGGCGTGTTCGGGTGCATCGCCTCAGGAGAGTGGCCACGCAGCTGGATGTACC
 GCATGTGATCACTCTGGGACTCGTGGGGCTGCAGCACCGGGGTCAGGAGAGTGTGGTAT
 TGTGACTAGTGATGGGAGTTCCTGTGCCAACATTCAAATCACACAAGGGAATGGTCTTGT
 AAATCACGTCTTTACTGAAGACAATTTGAAAAATATATGTTTCAAATCTTGAATTGG
 ACACACCAGGTATGCCACCACAGGAAAAATGTGAAGTAAAAATGTGACGCCCTTCGTTGT
 TGAACACATTCATGGGAAGATAGCTGTGGCACATAATGGCGAATTGGTAAATGCTGCTCG
 ATTAAGGAAAAAGCTTCTGCGTCATGGTATTGGTCTGTCTACAAGTTCTGATAGTAAAT
 GATTACCCAGTTACTGGCGTATACCCCTCCTCAGGAACAAGATGACACCCAGACTGGGT
 AGCCAGGATTAATAAATTGATGAAGGAAGCACCCACAGCATACTCCCTGCTTATAATGCA
 CAGAGATGTTATTTATGCAGTACGAGATCCTTATGAAAAATCGTCCCTTATGCATTGGTGC
 TCTTATCCAGTGTCTGATATAAATGACAAAGAGAAAAAACATCAGAAACAGAAGGATG
 GGTGGTGTCTTCAGAATCTGTAGCTTCTTATCTATTGGTCAAGATATTACCGTGAAGT
 CTTGCCTGGAGAAATGTGGAAATATCCAGACACAATGTCCAACTCTTGATATTATATC
 AAGGTCTGAAGGAAACCCAGTGGCTTTTTGTATCTTTGAATATGTTATTTTGAAGACC
 AGACAGTATGTTGGAAGACCAAATGGTTTATACAGTAAGATACCGTTGTGGCCAGCAGCT
 AGCGATTGAAGCACCTGTGGATGCAGATTTGGTTAGCACTGTTCCAGAATCTGCTACGCC
 TGCTGCTCTTGCTTACGCAGGAAAGTGTGGACTTCCATATGTGGAGGTGCTGTGTA
 CCGGTATGTAGGGAGAACCTTCACTCAGCCAAACATGAGGTTAAGACAACCTGGTGTTC
 AAAAAATTTGGAGTATTGTCAGACAACCTTAAAGGCAAAAGAATTGTTCTTGTAGATGA
 TTCAATTGTCAGAGGCAATACCATCTCACCTATAATAAACTGCTCAAAGAATCTGGTGC
 AAAAGAGGTACACATTCGAGTAGCTTACCACCAATTAATATCCATGCTTCATGGGAAT
 AAACATTCCTACAAAAGAAGAGCTCATTGCCAATAAACCCAGAATTTGATCACCTTGCGA
 ATATCTAGGAGCAACAGTGTGTGTATCTGTCAGTAGAAGGACTGGTTTCATCTGTACA
 AGAAGGGATAAAGTTTAAAAAACAGAAAGAGAAAAAGCACGATATTATGATCCAAGAAAA
 TGGAAATGGTCTGGAATGTTTTGAAAAGAGTGGTATTGTACAGCTTGTCTCACTGGAAA
 ATATCCTGTAGAATTAGAATGGTAGCTGGTAGGGTTGGATGTGTGTAGTTTCAAGATAGA
 AAGTTGGTCAAGAAGTTATAGTGGTACACCTCATCTATTTACTGTTACTCAGTTGGTAC
 AATGTAATAATGCCATGCTTATGTTTATAAGTTTTGAGATTTTTTTTTTCTGAAAAGGA
 TACCAAAGTGCATAACTGAACATTTCCAATTGCATATAATACAACAATATGTGGTGTTC
 TTTTTTTTACACAAGCATTGGCTAGCCTTTTTAACCTGGTCAGAGAAGGCAGGTGGTCC
 TGACATTTCCCAAGTCCATGCTTTAAAGGGTTGCAAGAAGTTAGGGTTAAGGAGAGGTG
 ATGCCAACAGACAGGTGAGTAAATATACCATTTACACAAAAGTTTGAATAGAATACAT
 TATACCTCATAGGTGTCTAGCCTCTACAGTTCTGGCTGTAGTTATGACCTTGGCTTCCCT
 GTCTAACTGTAGACAAATCTTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002703

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002703.3 , NP_002694.3
RefSeq Size:	3756 bp
RefSeq ORF:	1554 bp
Locus ID:	5471
UniProt ID:	Q06203
Cytogenetics:	4q12
Domains:	GATase_2, Pribosyltran
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism
Gene Summary:	<p>The protein encoded by this gene is a member of the purine/pyrimidine phosphoribosyltransferase family. It is a regulatory allosteric enzyme that catalyzes the first step of de novo purine nucleotide biosynthetic pathway. This gene and PAICS/AIRC gene, a bifunctional enzyme catalyzing steps six and seven of this pathway, are located in close proximity on chromosome 4, and divergently transcribed from an intergenic region. [provided by RefSeq, Mar 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript.</p>