

## Product datasheet for **SC312597**

### Adenylate kinase 5 (AK5) (AK090967) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adenylate kinase 5 (AK5) (AK090967) Human Untagged Clone
Tag:	Tag Free
Symbol:	AK5
Synonyms:	AK6
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AK090967, the custom clone sequence may differ by one or more nucleotides ATGAACACCAACGATGCCAAGGAGTATCTGGCCCGGAGGGAAATCCCTCAGCTTTTTGAG AGCCTTTTGAATGGACTGATGTGTTCTAAGCCCGAAGATCCAGTAGAATACTTGGAAAAGT TGTTTACAAAAAGTAAAGGAACTGGGTGGCTGTGACAAGGTGAAATGGGATACATTTGTA AGCCAGGAAAAGAAGACCTTACCCCACTAAATGGAGGACAGTCACGGAGATCCTTTCTA AGAAATGAAAGTGACACGGATCTCTGAGACTGCAGAGTTGATTGAGGAGTATGAGGTT TTTGATCTACCAGACCTCGACCAAAAAATCATTCTTGTTATAGGTGGTCCAGGAAGTGA AAGGGTACTCAGAGTTTAAAAATTGCAGAACGATATGGATTCCAATACATTTCTGTGGGA GAATTATTAAGAAAGAAGATCCACAGTACCAGCAGCAATAGGAAATGGAGTCTTATTGCC AAGATAATTACAACCTGGAGAATTGGCCCAAGGAAACAACAATTACAGAGATAAAAACA AAATTGATGCAAAATACCTGATGAAGAGGGCATTGTTATTGATGGATTTCCAAGAGATGTT GCCCAGGCTCTATCTTTTGAGGACCAATACAGCCTACGCCCTCAGACAAAGATGCCTGTG CAGTCAGATCCTCTCCCTTACGCTGCTCCCTGCGGGGTATGTCCAGTCCGTCAAGATTCT CCC
Restriction Sites:	Please inquire
ACCN:	AK090967
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).



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**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:** [AK090967.1](#), [BAC03558.1](#)

**RefSeq Size:** 2148 bp

**RefSeq ORF:** 2148 bp

**Locus ID:** 26289

**Cytogenetics:** 1p31.1

**Domains:** ADK

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Purine metabolism

**Gene Summary:** This gene encodes a member of the adenylate kinase family, which is involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. This member is related to the UMP/CMP kinase of several species. It is located in the cytosol and expressed exclusively in brain. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]