

Product datasheet for **SC114378**

AK3 (NM_016282) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AK3 (NM_016282) Human Untagged Clone
Tag:	Tag Free
Symbol:	AK3
Synonyms:	AK3L1; AK6; AKL3L; AKL3L1; FIX
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016282, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGCGTCCGCGGGCTGCTGCGAGCGGTGATCATGGGGGCCCGGGCTCGGGCAAGGGCACCGTGT  
CGTCGCGCATCACTACACACTTCGAGCTGAAGCACCTCTCCAGCGGGGACCTGCTCCGGGACAACATGCT  
GCGGGGCACAGAAATTGGCGTGTAGCCAAGGCTTTCATTGACCAAGGGAACTCATCCAGATGATGTC  
ATGACTCGGCTGGCCCTTCATGAGCTGAAAAATCTCACCCAGTATAGCTGGCTGTTGGATGGTTTTCCAA  
GGACACTCCACAGGCAGAAGCCCTAGATAGAGCTTATCAGATCGACACAGTGATTAACCTGAATGTGCC  
CTTTGAGGTCATTAACAACGCCTTACTGCTCGCTGGATTTCATCCCGCCAGTGGCCGAGTCTATAACATT  
GAATTC AACCTCCAAAACGTGGGCATTGATGACCTGACTGGGGAGCCTCTCATTACGCGTGAGGATG  
ATAAACACAGACGGTTATCAAGAGACTAAAGGCTTATGAAGACCAAAACAAAGCCAGTCTGGAATATTA  
CCAGAAAAAGGGGTGCTGGAACATTCTCCGGAACAGAAACCAACAAGATTTGGCCCTATGTATATGCT  
TTCCTACAAACTAAAGTTCACAAAGAAGCCAGAAAGCTTCAGTTACTCCATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016282 unedited
 TCAGAAATTTGTAATACGAACTCACTATAGGGCGGCCGGAATTCGCACCAGCCCGCGG
 GTGCGGGCCTCAGTCTGCGGCCTGGGGCGTCCGCGGGCTGCTGCGAGCGGTGATCATG
 GGGGCCCCGGGCTCGGGCAAGGGCACCGTGTCTGCGGCATCACTACACACTTCGAGCTG
 AAGCACCTCTCCAGCGGGACCTGCTCCGGGACAACATGCTGCGGGGCACAGCTTCCCTA
 TTCCCTGAGACACAACAATATTGAAATTAGGCCAACTAATAACCTACAGTGGCCTCTAA
 GTGTTCAAGTTAAAGGAAGAGAGTGGCACATCTCTCACTTTAAATCAAAGCTAGAAATG
 ATTAAGCTTAGTGAGGAAGGCGTCTGAAAACCAAGACAGGCTGAAACCGGCTTCTTGC
 ACCAGTTAGCCAAGTTGTAAGTGCAAAGGAAGACCTTGAAGGAAATTAAGTGCTGCTC
 CAGTAAACACTGGAGCACAAGAAAGCAAAAACCTTGTGTTGATATGGAGAAAGCTTG
 AGTGGTCTAGAAAGAAGATCAAACCAGCCACATCATCCATTAAGCCAAAGCCCAATCCAG
 AGCAAGGCCCTAATTCTCTTCATTTCAAGTGAAGGCTGAGAGATGTGTTGAAGCTGCAGAA
 TAAAAATTTGAAGCTAGCAGAGTTGGTTCATGAGGTTTAAAGGAAAGAAGCCGCTCTAT
 ACAGGANAGTGCAGTGTGATGTANAAGCTGCAGCAAGGTATCCAGAAAATCTAGCTAA
 GAATCATTGATGAAGGTGCTACACTAACAGATTTTCAATGTAACAAAACAGCCTTCTA
 TTGGAAGAAGATGCCATCTAGGACTTCCATTGCTGGAGAAGAGAAGTCAATGCTTGACTT
 CAAGCTTCAAGGACAGCTGACTCTGCTAGGACTAAGCAGCTGGTGACTTTAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016282 unedited
 GTACGCGGCCGCAATCTAGAGTCGAGGCTCTTTTTTTTTTTTTTTGCTTTTAAGATCATT
 TATTACAAACAGTCATTCAGAAAGACCATTGAGAACATCAGGCAGCAAAAAGGAAGGTGG
 GATGGAGCAAGCCCTGTGAAGGACCAACAACAAGTAATAGCCACAGTTATGAAATTTCA
 TTTTATTCTGATAAAGACTAATATATGCTTGATAACCTAGTGATAATCCATAAGTTTGGT
 ATTTCCACAACATTTTTAGAAAGCACATAAGATTAACATTCAAATAAGGCATTATAGAAA
 GTTTTATAAAGAATGAAGTGTTCCTATAATTCTTTTAAAAAACCTTGGTTCATCTTGAA
 AGATCGATGAATTTTTAAATATCAGAAGAAAAGGAAATAAAATTTTCCCCCAAACA
 CATAAGAACCCTACTGGCACTTGTATTTAAGTACCTGGGAAAAAACGGAACAGATT
 TTTAAAGGCAATAACGACTTGTAAAGACGGCTTGCTCCATTTGATTTGGCACAACCCAAG
 CAAGAGTCAATATGCCATGGAAGACCTAATCAACGTTTTTCTCCATCTCTTCATATTTT
 CCCACTTTGTATCTACACACCACAGACCATCGCAGCCCTGCCCGCCACACCCCCCACC
 CGCTCACACCCACCTTCCACCCACCCCTTCTATCCACCCCTCCCTCCCTCCCTCCCT
 CCCCCCCCCCCCCCCCCCCCCCATCTCCCTACCCCATGCCCCACAGATCCCCGAA
 TCCACCACGACCACGACCCATTACCCCTACCCCTCCCTCCCTCCCTCCCTCCCTCCCT
 CTCCCCCTCCTCCTCTTATCCCTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC
 C

Restriction Sites:

NotI-NotI

ACCN:

NM_016282

Insert Size:

3000 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:

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_016282.2](#), [NP_057366.2](#)

RefSeq Size: 2642 bp

RefSeq ORF: 684 bp

Locus ID: 50808

UniProt ID: [Q9UIJ7](#)

Cytogenetics: 9p24.1

Domains: ADK, ADK_lid

Protein Families: Druggable Genome

Protein Pathways: Pyrimidine metabolism

Gene Summary: The protein encoded by this gene is a GTP:ATP phosphotransferase that is found in the mitochondrial matrix. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Dec 2010]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1 and 4 both encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.