

## Product datasheet for **SC324280**

### AK3L1 (AK4) (NM\_203464) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AK3L1 (AK4) (NM_203464) Human Untagged Clone
Tag:	Tag Free
Symbol:	AK3L1
Synonyms:	AK3; AK3L1; AK3L2; AK 4
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\_203464.1  
 GTCCCAGTGAGAGCGGAGGGTGCACAGGTAGGGGGCCGAGAAACAAAGTTCCTCCGGGGCT  
 CCCTCCGGGGCCGCGGTGCGGGCTGCGCGTTTGACCGCCCCCTCCTCGCGAAGGCAATG  
 GCTTCCAAACTCCTGCGCGCGGTATCCTCGGGCCCGCGGCTCGGGCAAGGGCACCGTG  
 AGCCAGAGGATCGCCAGAACTTTGGTCTCCAGCATCTCTCCAGCGGCCACTTCTTGCGG  
 GAGAACATCAAGGCCAGCACCGAAGTTGGTGGATGGCAAAGCAGTATATAGAGAAAAGT  
 CTTTTGGTTCCAGACCATGTGATCACACGCCTAATGATGTCCGAGTTGGAGAACAGGCGT  
 GGCCAGCACTGGCTCCTTGATGGTTTTCTAGGACATTAGGACAAGCCGAAAGCCCTGGAC  
 AAAATCTGTGAAGTGGATCTAGTGATCAGTTTGAATATCCATTTGAAACACTTAAAGAT  
 CGTCTCAGCCCGCTTGGATTACCCCTCCTAGCGGAAGGGTATATAACCTGGACTTCAAT  
 CCACCTCATGTACATGGTATTGATGACGTACTGGTGAACCGTTAGTCCAGCAGGAGGAT  
 GATAAACCCGAAGCAGTTGCTGCCAGGCTAAGACAGTACAAGACGTGGCAAAGCCAGTC  
 ATTGAATTATACAAGAGCCGAGGAGTGCTCCACCAATTTCCGGAACGGAGACGAACAAA  
 ATCTGGCCCTACGTTTACACACTTTTCTCAAACAAGATCACACCTATTCAAGTCCAAGAA  
 GCATATTGACCTGCCCAATGGAAGAACCAGGAAGATGTGGTCATTCAATAGTGTG  
 TGTAGTATTGGTCTGTGTCAAATTAGAAGCTAGCTGAGGTAGCTTGCAGCATCTTTTC  
 TAGTTGAAATGGTGAAGTATAGGAAAACAAATGAGTAGAAAGAGTTCATGAAGAGGCC  
 TCCTCTGCCTTTCAAAGGCTGGTACCTACACATGTTTAAAGGTGTCTCTGCACATGTCT  
 CAAGCCATCACAAAGAAAGCAAGTACAGTGTGGATTTCAAATGGTGTGTAACCTCAGCTC  
 CAGCTGGTTTTTGACAGCTGTGCTGTGGTAATATTTTGACATGTGATGGTGTAGTCT  
 CTGGTTCTCCCATCCCCACAAAGGCTGTTGAACCACAGCACCAGGAAGCCTGAGAATGA  
 ATCCTGAGGGCTCTAGCCAGGCTTTGTCCAGGCTTTCTGGTGTGTGCCCTCTGGTAA  
 CAGTGAATGAAGCTACTTACTCATAGTGGTTGTTTCTCTGGTCTTGAGTGACTGTGTC  
 CACAGTTCAATTTTTTCCGGTAGGAATAACTCCTTTTCTACATCCAGCTCCATAGAGTC  
 TCTCCTTTTCCAGACATCCTGGGATGAAAGAATTTGGCTTTTTTTTTTCTTTTTTTTTTG  
 ACATCTGTTTTCACTCTTAGGCTTTTAAACAATAGTTATTGCTTTTATCCCTCTCAGATT  
 CTAATAACTGAGAGCGATGGGGCTATATTGAATCTCTGTATGCACTGAGAACTGAGCTAT  
 GAAGAGGATCTTATAAAGTCTGGTCTGACTTTATGGATTGCACTGTTCTTTCTTTT  
 ATGTGAAAAAAAAAAAAAAAAACCCTGAAAGTCTTGGGAACCCCTAAAGTCTTTTGGGAAT  
 CCTCAAAAAGCATGGGAAGTAAAGTATTTAGCTACATAAATGTTGTAAGATCATATCTTA  
 TGTATAGAAGTAATAAGACCATTTGGAATTACTGGACTAATTGAATAGTTAAGGTTTCTA  
 TTCGGGACAATAAATGTATTTTGAAGTCTGCTAACTATTGATGCTGACAGTGTTCAT  
 CTCTATGAGTGACCCAAACATATTATAAATATGTGGTAAAGGGAATGGAGCCTGTGGGG  
 TTGAGCAGAATGTTGACTAGCTGTGCCTGGACTGAGTATAACAGCTTTATGATTATGAG  
 AAAACAAATCTTTATTTTTTTTTTCTGTTCCAAAGATTCATCCTATGGGGTGGCCATAA  
 AGTCTAGAATTAGATACTAATATTTTGTCAATCATTATAACATATCAATAAACCATTTGT  
 TAAA  
 AAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_203464

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_203464.1</a></u> , <u><a href="#">NP_982289.1</a></u>
<b>RefSeq Size:</b>	2241 bp
<b>RefSeq ORF:</b>	672 bp
<b>Locus ID:</b>	205
<b>UniProt ID:</b>	<u><a href="#">P27144</a></u>
<b>Cytogenetics:</b>	1p31.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Purine metabolism
<b>Gene Summary:</b>	<p>This gene encodes a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 all 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.</p>