

Product datasheet for **SC123241**

AK7 (NM_152327) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AK7 (NM_152327) Human Untagged Clone
Tag:	Tag Free
Symbol:	AK7
Synonyms:	AK 7; CFAP75; FAP75; SPGF27
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_152327 edited
GCTTTCACCTTAGCAACCAGCGCGCTCCCACCATGGCTGAAGAAGAGGAAACTGCTGCT
CTCACGGAGAAGGTTATCCGGACCCAGAGGGTGTTTATAAACCTGTTGGATTCTACAGC
AGCGGAAACATCGGGAAGTTTCTATCTAACTGTGTAGTTGGGGCTTCGCTTGAAGAAATT
ACAGAGGAAGAGGAAGAGGAAGATGAAAATAAGTCAGCTATGCTGGAAGCTTCTCAACC
AAGGTGAAGGAAGGCACATTCAGATTGTGGGCACGCTGTCCAAGCCTGACAGCCCGCGG
CCTGACTTTGCGGTGGAGACGTACTCTGCCATCTCTCGAGAAGACCTTCTCATGCCGCTG
CTGGAGTGTGATGTTATTTATAACATCACTGAGAGCTCACAGCAAATGGAGGAAGCC
ATCTGGGCAGTCTCTGCACTCAGTGAAGAAGTCAGCCACTTTGAAAAGCGAAAGCTATTT
ATTTTACTGTGCGACGGTGTGACTTGGGCGCGCTCCAAAGCCCTGGACCCCGAGGATTCT
GAGGTTCCATTCACTGAAGAAGATTATCGAAGAAGAAAGTCTCATCCTAATTTTCTGGAC
CACATAAATGCTGAAAAAATGGTTCTCAAATTTGGAAAAAAGGCCAGAAAATTTGCAGCA
TACGTAGTTGCTGCTGGACTCCAGTATGGAGCGGAAGGAGGCATGTTACACACATTTTTT
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ATTCCAACAATCCATGTTCTTGATCTAGCAGGAGTGATACAAAACGTCATAGATCACGTG
CCAAAGCCTCACTACCTGGTTGCTGTGGATGAGTCTGTTACATACCCTGGAAGACATAGTC
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TACCTAACCAAGGACTTAACGCAAGATTGTCTTGACCATTTACTGGTCAACTTGAGAATG
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CAAGACCGATTCTCCGGCTCTGAGCAACTACCGGGACATCAATATCGACGATGAGACT
GTCTTCAACTATTTTGTGAACCTTCAAATTCACCCGATACATATTGATGTAGGAAACTT
GAAGATGCTCAGAATAGACTTGCTATCAAACAGCTCATCAAAGAGACTGGGGAGCCTCGA
AATTATGGTTAACAGACGAAGAAAAGGCAAGAAGAGGAGCGGAAGGCTGCGGAGGAGCGG
CTGGCCAGGGAGGCTGCTGAGGAAGCAGAACGCGAGCACCAGGAGGCCGTGGAGATGGCA
GAGAAGATAGCTCGTGGGAGTAGTGGAATAAACGACTGGAGGAAGTGAAGAGAGAAGAA
AGAGAATTACTGGAGGCTCAGTCAATCCCCTGAGAACTATTTAATGACCTATGTGATG
CCAACCTTATTCAGGGCCTGAATGAATGTTGCAACGTCGACCCGAAGACCCTGTTGAT
TTTCTGGCAGAATATCTTTCAAGAACAATCCTGAAGCACAGTGAACCTTGAAGATCTG
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TGATAAAGACATTTGTGCATAGCTCATGAGACAAATACTGATTTAATATTTTATTCTTTA
GTCAGATCTAAATATACCGCTTCTGTACACTAATGTTTATAGGTATTTATAGCATGAAGA
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TTGTTATCGCCCAATAACAATGTTATTAGAAATGGAAATAAATTGAAGTATTTATAAA
AAAAAAAAAAAAAAAAAGAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_152327 unedited TGACGTGAGATTTTGTATACGACTCATATAGGCGGCCGCATAACTTCGTATAGCATAACAT TATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGCTTT CACCTTAGCAACCAGCGCGGCTCCCACCATGGCTGAAGAAGAGGAAACTGCTGCTCTCAC GGAGAAGTTATCCGGACCCAGAGGGTGTATAAACCTGTTGGATTCTACAGCAGCGG AAACATCGGGAAGTTTCTAATACTGTGTAGTTGGGGCTTCGCTGAAGAAATTACAGA GGAAGAGGAAGAGGAAGATGAAAAAAGTCAGCTATGCTGGAAGCTTCTCAACCAAGGT GAAGGAAGGCACATTCAGATTGTGGGCACGCTGTCCAAGCCTGACAGCCCGCGGCTGA CTTTGCGGTGGAGACGTACTCTGCCATCTCTCGAGAAGACCTTCTCATGCGCCTGCTGGA GTGTGATGTTATTATTTATAACATCACTGAGAGCTCACAGCAAATGGAGGAAGCCATCTG GGCAGTCTCTGCACTCAGTGAAGAAGTCAGCCACTTTGAAAAGCGAAAGCTATTTATTTT ACTGTCGACNGTGATGACTTGGGCGCGCTCCAAAGCCCTGGACCCGAGGATTCTGAGGT TCCATTCCTGAAGAAGATATCGAAGAAGAAAGTCTCATCCTAATTTTCTGGACCACATA ATGGCTAAAAAATGGTTCTTAAATTTGGAAGAAGGCCAAAAAATTTGCAGCATACTAG TTGCTGCTGGACTCCCATTTGGAGCCGGAGGAGGCATGTTACACACATTTTTTAAAAAGG CCTTGTTGGGCCGAATTCCTGCATAACAATTGTTGGGCGAGGGAACAAAGG
Restriction Sites:	Please inquire
ACCN:	NM_152327
Insert Size:	2661 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_152327.1 , NP_689540.1
RefSeq Size:	2649 bp
RefSeq ORF:	2172 bp
Locus ID:	122481
UniProt ID:	Q96M32
Cytogenetics:	14q32.2
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Purine metabolism

Gene Summary:

This gene encodes a member of the adenylate kinase family of enzymes. The encoded enzyme is a phosphotransferase that catalyzes the reversible phosphorylation of adenine nucleotides. This enzyme plays a role in energy homeostasis of the cell. Alternative splicing results in multiple transcript variants. Mutations in the mouse gene are associated with primary ciliary dyskinesia. [provided by RefSeq, Apr 2017]

Transcript Variant: This variant (1) encodes the longest isoform (1). 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.