

Product datasheet for **SC323351**

ADCK1 (NM_020421) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADCK1 (NM_020421) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADCK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020421, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAGAAAGGCTCTCAAGCTTGCTTCGTGGACCAGCATGGCTCTTGCTGCCTCTGGCATCTACTTCT
ACAGTAACAAGTACTTGGACCCTAATGACTTTGGCGCTGT CAGGGTGGGCAGAGCAGTTGCTACGACGGC
TGTCATCAGTTACGACTACCTCACTTCCCTGAAGAGTGTCCCTTATGGCTCAGAGGAGTACTTGCAGCTG
AGATCTAAGGTGCACCTTCGCTCTGCCAGGCGTCTCTGTGAGCTCTGCTGTGCCAACCGGGGCACCTTCA
TCAAGGTGGGCCAGCACCTGGGGCTCTGGACTACCTGTTGCCAGAGGAGTACACCAGCACGCTGAAGGT
ACTGCACAGCCAGGCTCCACAGAGCAGCATGCAAGAGATCCGCCAGGTCATCCGAGAAGATCTGGGCAAG
GAGATCCATGATTTGTTCCAGAGCTTCGATGACACCCCTCTGGGGACGGCCTCCCTGGCCAGTCCACA
AGGCAGTCTGCATGATGGGCGGACGGTGGCCGTGAAGGTCCAGCACCCAAAGGTGCGGGCTCAGAGCTC
GAAGGACATTCTCCTGATGGAGGTGCTCGTTCTGGCTGTGAAGCAGCTGTTCCCAGAGTTTGAGTTTATG
TGGCTTGTGGATGAAGCCAAGAAGAACCTGCCTTTGGAGCTGGATTTCTCAATGAAGGGAGGAATGCTG
AGAAGGTGTTCCAGATGCTCAGGCATTTTACTTCTTGAAGTCCCCGAATCCACTGGGACCTGTCCAC
GGAGCGGGTCTCCTGATGGAGTTTGTGGATGGCGGCAGGTCATGACAGAGACTACATGGAGAGGAAC
AAGATCGACGTCATGAGATCTCACGCCACCTGGCAAGATGTATAGTGAGATGATCTTCGTCATGGCT
TCGTGCACTGCGATCCCCACCCGGCAATGTACTGGTGCAGGACCCCGGCACGGAAAGCGGAGAT
TGTCTGTGGACCATGGGCTTTACCAGATGCTCACGGAAGAATCCGCCTGAATTACTGCCACCTCTGG
CAGTCTCTGATCTGGACTGACATGAAGAGAGTGAAGGAGTACAGCCAGCGACTGGGAGCCGGGATCTCT
ACCCCTTGTTCCTGTCATGCTGACGGCGCATGCTGGGACTCGGTCAACAGAGGCATCAGCCAAGCTCC
CGTCACTGCCACTGAGGACTTAGAGATTCGCAACAACGCGGCCAACTACCTCCCCAGATCAGCCATCTC
CTCAACCACGTGCCGCGCCAGATGTCTCATCTTGAAGACCAACGACCTGCTGCGTGGCATTGAGGCCG
CCCTGGGCACCCGCGCCAGCGCCAGCTCCTTTCTCAACATGTACGTTGCTGCATCAGAGCGCTAGCTGA
GCACAAGAAGAAGAATACCTGTTTATTCTCAGAAGGACCCAGATCTCTTTCAGCGAGGCCTTCACTTA
TGGCAGATCAACCTCCATGAGCTCATCTGCGTGTGAAGGGTTGAAGCTGGCTGACCGGGTCTTGCCCC
TAATATGCTGGCTGTTCCCTGCTCCACTCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for mutant NM_020421 unedited</p> <pre> ACCGCCC GTTACAGCAACGGGCGGTAGGCGCGTACGGTGGGAGGTTCTATATAAGCAGAAGCTCGTTTAG TGAACCGTCAGAAATTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAAGCCGGG CGCCGCGGCTCTGCTTCCCTCGGGGATCTGGCGACATGGCCAGAAAGGCTCTCAAGCTTGCTTCGTGGAC CAGCATGGCTCTTGCTGCCTCTGGCATCTACTTCTACAGTAACAAGTACTTGGACCCTAATGACTTTGGC GCTGTCAAGGTGGGCAGAGCAGTTGCTACGACGGGCTGTATCAGTTACGACTACCTCACTTTCCCTGAA GAGTGTCTCCTTATGGCTCAGAAGGAGTAACTTTGCCAGGCTTGAAGAATCTCTAAGAATCCATGGATTT TGTTTCCAGAGACGCTTCGAGATGACACCCCTCGGGGGACGCGCGCTCTCCCTTGCCCCAAGGGTCCAC CAAGGGCATGTGCCTGGCTGTAGATGGGCGGGACGTGTGGCCGTTGATGGGTCAACACCCCAAGGGT GGCGGGGTAAAAACCTCGAAGGGACTTTTCTCCTGGAAGGGAGGGCGCTCGTTTTGGCGCTGTGAAACC CACTGTTTCCAAAATTTTGATTTATATTGGGCGTTGGGGGAAAACCAAAAAAAAAACCGGGCCCTTG GAACTGGGTTTCCCAAGGAAGGGGGAAGTGCCGAAAAGGGTCCCAATCCCCCGGCTTTTTACTTTT TTAAAGGGCCCCAAACCCGGGGCCCTGCCCGGGGGGGGCCCTCGGGGAGTTTTTTGGGAGGGGGGGC GCGGCCTATATACAAGAACCCTCGTGAAGGAAAACTTTATCTTCTCCTGATATTTCTCCACCCGCGG GGAAAATATATTTAGAAAAACTTCTCAGAGTTCTGGCTA </pre>
Kinase Domain Sequence:	<p>>SC323351 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation</p> <pre> CSATGMGCAATGGGCGGTAGGCKGTACGGTGGGAGGTTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA GAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAAGCCGGGCGCCGCGCT CTGCTTCCCTCGGGGATCTGGCGACATGGCCAGAAAGGCTCTCAAGCTTGCTTCGTGGACCAGCATGGCT CTTGCTGCCTCTGGCATCTACTTCTACAGTAACAAGTACTTGGAC </pre>
Restriction Sites:	Please inquire
ACCN:	NM_020421
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	<p>This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.</p>
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_020421.2](#), [NP_065154.2](#)

RefSeq Size: 2222 bp

RefSeq ORF: 1572 bp

Locus ID: 57143

UniProt ID: [Q86TW2](#)

Cytogenetics: 14q24.3

Domains: ABC1

Protein Families: Druggable Genome, Protein Kinase, Secreted Protein

Gene Summary: The function of this protein is not yet clear. It is not known if it has protein kinase activity and what type of substrate it would phosphorylate (Ser, Thr or Tyr).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).