

Product datasheet for **SC323407**

CLK3 (NM_003992) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLK3 (NM_003992) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLK3
Synonyms:	PHCLK3; PHCLK3/152
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003992, the custom clone sequence may differ by one or more nucleotides

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ATGCATCACTGTAAGCGATACCGCTCCCCTGAACCAGACCCGTACCTGAGCTACCGATGGAAGAGGAGGA
GGTCTACAGTCGGGAACATGAAGGGAGACTGCGATACCCGTCCCGAAGGGAGCCTCCCCACGAAGATC
TCGGTCCAGAAGCCATGACCGCTGCCCTACCAGAGGAGGTACCGGGAGCGCCGTGACAGCGATACATAC
CGGTGTGAAGAGCGGAGCCCATCCTTTGGAGAGGACTACTATGGACCTTCACGTTCTCGTCATCGTCGGC
GATCGCGGGAGAGGGGCCATACCGGACCCGCAAGCATGCCACCACTGCCACAAACGCCGACCAGGTC
TTGTAGCAGCGCCTCCTCGAGAAGCCAACAGAGCAGTAAGCGCAGCAGCCGGAGTGTGGAAGATGACAAG
GAGGGTCACCTGGTGTGCCGGATCGGCGATTGGCTCCAAGAGCGATATGAGATTGTGGGAACTGGGTG
AAGGCACCTTTGGCAAGTGGTGGAGTGCCTGGACCATGCCAGAGGGAAGTCTCAGTTGCCCTGAAGAT
CATCCGCAACGTGGGCAAGTACCGGGAGGCTGCCCGGCTAGAAATCAACGTGCTCAAAAAATCAAGGAG
AAGGACAAAGAAAACAAGTTCCTGTGTCTTGTGTCTGACTGGTTCAACTCCACGGTCACATGTGCA
TCGCCTTTGAGCTCCTGGGCAAGAACACCTTTGAGTTCCTGAAGGAGAATAAATTCCAGCCTTACCCCT
ACCACATGTCCGGCACATGGCCTACCAGCTCTGCCACGCCCTTAGATTTCTGCATGAGAATCAGCTGACC
CATAACAGACTTAAAACCAGAGAATCCTGTTTGTGAATCTGAGTTTAAAACCTCTACAATGAGCACA
AGAGCTGTGAGGAGAAGTCAGTGAAGAACCAGCATCCGAGTGGCTGACTTTGGCAGTGCCACATTTGA
CCATGAGCACCACACCATTGTGCCACCCGTCATATCGCCCGCCTGAGGTGATCCTTGAGCTGGGC
TGGGCACAGCCCTGTGAGCTCTGGAGCATTGGCTGCATTCTTTGAGTACTACCGGGGCTCACACTCT
TCCAGACCCACGAAAACCGAGAGCACCTGGTGATGATGGAGAAGATCCTAGGGCCATCCCATCACACAT
GATCCACCGTACCAGGAAGCAGAAATATTTCTACAAAGGGGGCCTAGTTTGGGATGAGAACAGCTGTGAC
GGCCGGTATGTGAAGGAGAACTGCAAACCTCTGAAGAGTTACATGCTCCAAGACTCCCTGGAGCAGTGC
AGCTGTTTGACCTGATGAGGAGGATGTTAGAATTTGACCTGCCAGCGCATCACACTGGCCGAGGCCCT
GCTGCACCCCTTCTTTGCTGGCTGACCCTGAGGAGCGGTCTTCCACACCAGCCGAACCCAAGCAGA
TGA

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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_003992 unedited ACCGGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGTAAAGTGTGGC TGGGGTCCGCGCGGCGACAGCGCGCGCGCGCGGGGATGCATCACTGTAAGCGATACCGTCCCCTG AACCAGACCCGTACCTGAGCTACCGATGGAAGAGGAGGAGGTCTACAGTCGGGAACATGAAGGGAGACT GCGATACCCGTCCCCGAAGGGAGCCTCCCCACGAGGATCTCGGTCCAAAAGCCATGACCGCCTGGCCTT ACCGAAGGAGGTACCCGGGAGCCGCTTGACAGCGATTCTCCCGTGGTAAAAACGGAAACCCCATCCT TGGAAAAGGACTACAATGGACCTTAACTTTTTGGCATCGCCGGGAATCGCGGGGAAGGGGCCATCCCGG ACCGGCACGCAGCCACCCATGGGCCAACCGCCCGCCAGTTCTTGTACCCCGCCCCCAGAAACCAAC AAAATAAACCCGCACCCGGAATTGAAAAACACGGGGGTCCCGTGTGCCGATATGGAATGGGCTC AGCACAAGGATTTGGGGACTGGAAGGCCTTGCGGGTGGTGTCTGCCCCAGAGATCTCGTGTCCAGAT AACCCAATTGCAACCGAGAGGCGGGTATACA
Kinase Domain Sequence:	>SC323407 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 CSACMGCAWGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA GAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGTAAAGTGTGGGCTGGGGT CGCGCGGCGCACAGCGCGCGCGCGCGGGGATGCATCACTGTAAGCGATACCGTCCCCTGAACCAGA CCCGTACCTGAGCTACCGATGGAAGAGGAGGAGGTCTACAGTCG
Restriction Sites:	Please inquire
ACCN:	NM_003992
Insert Size:	1870 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).
OTI Annotation:	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.
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_003992.1 , NP_003983.1
RefSeq Size:	1762 bp
RefSeq ORF:	1473 bp

Locus ID:	1198
UniProt ID:	P49761
Cytogenetics:	15q24.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>This gene encodes a protein belonging to the serine/threonine type protein kinase family. This protein is a nuclear dual-specificity kinase that regulates the intranuclear distribution of the serine/arginine-rich (SR) family of splicing factors. Two transcript variants encoding different isoforms have been found for this gene. Related pseudogenes are located on chromosomes 1 and 9. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (b) has a shorter and distinct N-terminus compared to isoform a.</p>