

Product datasheet for **SC323614**

CDKL2 (NM_003948) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDKL2 (NM_003948) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDKL2
Synonyms:	KKIAMRE; P56
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323614 sequence for NM_003948 edited (data generated by NextGen Sequencing)

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ATGGAAAAATATGAAAACCTGGGTTTGGTTGGAGAAGGGAGTTATGGAATGGTGATGAAG
TGTAGGAATAAAGATACTGGAAGAATTGTGCCATAATGAAGTCTTAGAAAAGTGACGAT
GACAAAATGGTTAAAAAGATTGCAATGCGAGAAATCAAGTTACTAAAGCAACTTAGGCAT
GAAAATTTGGTGAATCTCTTGGAAAGTGTGAAGAAAAAACCAGTGGTACCTAGTCTTT
GAATTTGTTGACCACACAATTCTTGACTTGGAGCTTTTCCAAATGGACTAGACTAC
CAAGTAGTTCAAAGTATTTGTTTCAGATTATTAATGGAATTGGATTTTGTACAGTAC
AATATCATACACAGAGATATAAAGCCAGAGAATATATTAGTCTCCAGTCTGGCGTTGTC
AAGCTATGCGATTTTGGATTTGCGCGAACATTGGCAGCTCCTGGGGAGGTTTATACTGAT
TATGTGGCAACCCGATGGTACAGAGCTCCAGAACTATTGGTTGGTGATGTCAAGTATGGC
AAGGCTGTTGATGTGTGGGCCATTGGTTGTCTGGTAACTGAAATGTTTATGGGGAAACC
CTATTTCTGGAGATTCTGATATTGATCAGCTATATCATATTATGATGTGTTTAGGTAAT
CTAATTCAGGCATCAGGAGCTTTTTAATAAAAAATCCTGTGTTTCTGGAGTAAGGTTG
CCTGAAATCAAGGAAAGAGAACCCTTGAAGACGCTATCCTAAGCTCTCTGAAGTGGTG
ATAGATTTAGCAAAGAAATGCTTACATATTGACCCCGACAAAAGACCCTTCTGTGCTGAG
CTCCTACACCATGATTTCTTCAAATGGATGGATTTGCTGAGAGGTTTTCCCAAGAACTA
CAGTAAAAGTACAGAAAGATGCCAGAAATGTTTCTTATCTAAAAATCCCAAAACAGA
AAGAAGGAAAAAGAAAAAGATGATTCCTTAGTTGAAGAAAGAAAAACACTTGTGGTACAG
GATACCAATGCTGATCCCAAAATTAAGGATTATAAACTATTTAAAAATAAAAGGCTCAAAA
ATTGATGGAGAAAAAGCTGAAAAAGGCAATAGAGCTTCAAATGCCAGCTGTCTCCATGAC
AGCTGGACACACAAGGAATCCAAGCGTGGCAATCCCCACTTACACACAATCTTTCT
GCAGTTGCTCCCAGCATTAAATCTGGAATGGGGACTGAGACTATACCAATTCAGGGTTAC
AGAGTGGATGAGAAAATAAGAAGTGTCTATTCCATTTGTTAAACCGAACAGACATTCC
CCATCAGGCATTATAACATTAATGTGACCACATTAGTATCAGGACCTCCCCTGTCAGAT
GATTCAGGGGCTGATTTGCCTCAAATGGAACACCAGCACTGA
    
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Clone variation with respect to NM_003948.3
98 a=>t

5' Read Nucleotide Sequence:

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>OriGene 5' read for mutant NM_003948 unedited
CCCCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGAGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA
ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCAGGCTCCAGGT
ACTGGGCGCCTTACGAGCTGGGAGGTGGTGCCTCTACCCAGCTAATTGCTCTCTAGCCCTTGGCCTTCA
CAGGTGTTGGTGCCTGCCGTGAACGCATTCTGACCTGGGCCGTATCTGTCTCCAAAGACTTTGTGCCTAT
GGTTGGGACAGAGTGAAGTTCGTTGCCTTGACGACGACAGCATCGGGCCCGTGGTCTCCTAAGTGTGAG
CTTGCGGCGGACCGAGGCCACCTGCCTCCCTGCCTGCTTCGCCCTGGACTCGTGACTGCGTCCGCAGAG
AATCACAAACAGCGCTGGATTTGCTAGTTTGGTACGACATCTTTGGACCTGCGAACCATATGCATTTCA
CCTCAAATTTGTTCCAAGTTGAAAACCTTTGGGTCTTCTATGCGAACGGATTGAAGAACCAGAAAAGT
TCTACGGACTTTAAATAATGGAATAATGAAAACCTGGGTAGTGGAAAATGAGTTATGATGGTGAAT
GAATGTGTAGAATAAAGATCCTGGAAGATTGGCCTATATGGAGTTCTAAAATGTCCAATAGCACAAACG
GGTTAAAGAAATGCATGCCGAAAATCCAGTTTCATAGCCACTTAGGCTGGAACCTTGTGGAATCTCTGGA
ACGTTGAAAAAAAACCAATGGCTCATGCCTGGAATTGTGTACCACCATCTTGAGACTGGGACCCTTCCA
TGAGCATCAGTCACCGAAGTTCAGACTGTGACAATTATAGAGCGTAGTTGCTGACGCACCTACACGAAA
TGACCGAGAATCGTATTTCACTTGCCTATATCGACACTTGATTGTACA
    
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Kinase Domain Sequence:	>SC323614 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 GAAACCTGMGGTTTGGTTGGAGAAGGGAGTTATGGAATGGTGATGAAGTGTAGGAATAAAGATMCTYGAA GAATTGTGGCCATAATGAAGTTCTTAGAAAAGTGACGATGACAAAATGGTTAAAAAGATTGCAATGCGAGA AATCAAGTTACTAAAGCAACTTAGGCATGAAAACCTGGTGAATCTCTTGGAAAGTGTGAAGAAAAAAAAA CGATGGTACCTAGTCTTTGAATTTGTTGACCACACAATTCTTGAT
Restriction Sites:	Please inquire
ACCN:	NM_003948
Insert Size:	4700 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_003948.2 , NP_003939.1
RefSeq Size:	1993 bp
RefSeq ORF:	1482 bp
Locus ID:	8999
UniProt ID:	Q92772
Cytogenetics:	4q21.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

Gene Summary:

This gene product is a member of a large family of CDC2-related serine/threonine protein kinases. It accumulates primarily in the cytoplasm, with lower levels in the nucleus. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter 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.