

Product datasheet for **SC323347**

CLK4 (NM_020666) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLK4 (NM_020666) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLK4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323347 sequence for NM_020666 edited (data generated by NextGen Sequencing)

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ATGCGGCATTCCAAAAGAACTCACTGTCCTGATTGGGATAGCAGAGAAAGCTGGGGACAT
GAAAGCTATCGTGGAAAGTCACAAGCGGAAGAGGAGATCTCATAGTAGCACACAAGAGAAC
AGGCATTGTAACCACATCACCAGTTTAAAGAATCTGATTGTCTATTATTTAGAAGCAAGG
TCCTTGAATGAGCGAGATTATCGGGACCGGAGATACGTTGACGAATACAGGAATGACTAC
TGTGAAGGATATGTTTCTAGACATTATCACAGAGACATTGAAAGCGGGTATCGAATCCAC
TGCAAGTAAATCTTCAGTCCGAGCAGGAGAAGCAGTCCTAAAAGGAAGCGCAATAGACAC
TGTTCAAGTCATCAGTACGTTTCGAAGAGCCACCGAAGGAAAAGATCCAGGAGTATAGAG
GATGATGAGGAGGGTACCTGATCTGTCAAAGTGGAGACGTTCTAAGAGCAAGATATGAA
ATCGTGGACACTTTGGGTGAAGGAGCCTTTGGCAAAGTTGTAGAGTGCATTGATCATGGC
ATGGATGGCATGCATGTAGCAGTATGATCGTAAAAATGTAGGCCGTTACCGTGAAGCA
GCTCGTTCAGAAATCCAAGTATTAGAGCACTTAAATAGTACTGATCCCAATAGTGTCTTC
CGATGTGTCCAGATGCTAGAATGGTTTGATCATCATGGTCATGTTTGTATTGTGTTTGAA
CTACTGGGACTTAGTACTTACGATTTTCATTAAGAAAACAGCTTTCTGCCATTTCAAATT
GACCACATCAGGCAGATGGCGTATCAGATCTGCCAGTCAATAAAATTTTTTACATCATAAT
AAATTAACCCATACAGATCTGAAGCCTGAAAATATTTTGTGTTGTGAAGTCTGACTATGTA
GTCAAATATAATTCTAAAATGAAACGTGATGAACGCACACTGAAAAACACAGATACAAA
GTTGTTGACTTTGGAAAGTGAACGTATGATGATGAACATCACAGTACTTTGGTGTCTACC
CGGCACTACAGAGCTCCCGAGGTCATTTTGGCTTTAGGTTGGTCTCAGCCTTGTGATGTT
TGGAGCATAGGTTGCATTCTTATTGAATATTACCTTGGTTTACAGTCTTTCAGACTCAT
GATAGTAAAGAGCACCTGGCAATGATGGAACGAATATTAGGCCATACCCACAACACATG
ATTCAGAAAAACAAGAAAACGCAAGTATTTTACCATAACCAGCTAGATTGGGATGAACAC
AGTTCTGCTGGTAGATATGTTAGGAGACGCTGCAAACCGTTGAAGGAATTTATGCTTTGT
CATGATGAAGAACATGAGAACTGTTTACCTGGTTTGAAGAATGTTAGAATATGATCCA
ACTCAAAGAATTACCTGGATGAAGCATTGCAGCATCCTTTCTTTGACTTATAAAAAAG
AAATGA
    
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Clone variation with respect to NM_020666.2
 566 a=>t;567 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for mutant NM_020666 unedited

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CCCCCGTCTCAGCAATGGGCGGTAGGCGTGTACGGCTGTGGAGGTCTATATAAGCAGAGCTCGTTTAGT
GAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAAGACGGCAG
TTTGGCGACATTTCTCGGCCGAAGGCCATTTGCTTTTGGCGAGATGCGGCATTCAAAAGAACTCACTG
TCCTGATTGGGATAGCAGAGAAAGCTGGGGACATGAAAGCTATCGTGGAAGTCACAAGCGGAAGAGGAGA
TCTCATAGTAGCACACAAGAGAAAACAGGCATTTGTAACCACATCACCAGTTTAAAGAAATCTGATTTGA
TGTTCAATTGGGACTGTTTTACCAGATTTGCTTTCTAAATAACCCAGCTGGGGTAACTTTTAAAAAAC
AGACCTGGGTGAATATAAAAAACGATGGCCCTAACCCCTATCGGTCTTGCCTATTGGAAAGGCTATATTG
AAATATTAATTGGGCATTAATTGAAAATTTAAAAAATTAATAATTCGGTCAATCCGGCTCACCCGGTCC
ATAGCCGTGTGTAATTCTGTAACTTTGTTTATATACTCTCTGACCCTGTGCTCATTGCCCTATACTAAT
TGAAGACACTCCTACCCTTAAATTTGGCCACGGGTTACACCCGTGTTGGACACTAAACGTGTTAGGGCA
AACCTCTATTCTCCGATTTCCCAAGATGTGTGGCGATTTTCAAAGGTTGACTTATGAGAGAGCCTAAG
ATGCGCCGACTATAGTATGGGTTCTCGAGTTCGGAAGTCACTTACGACAGACCAGTACCAAATTCGGT
TTCCGAACCCTAGCAGTCTGAAAAAA
    
```

Kinase Domain Sequence: >SC323347 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

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TGAMRRTCTAGAGCAGATATGAATCGTGGACACTTTGGGTGAAGGAGCCTTTGGCAAAGTTGTAGAGTGC
ATTGATCATGGCATGGATGGCATGCATGTAGCAGTATGATCGTAAAAATGTAGGCCGTTACCGTGAAG
CAGCTCGTTCAGAAATCCAAGTATTAGAGCACTTAAATAGTACTGATCCCAATAGTGTCTCCGATGTGT
CCAGATGCTAGAATGGTTGATCATCATGGTCATGTTTGTATTGT
    
```

Restriction Sites:	Please inquire
ACCN:	NM_020666
Insert Size:	2820 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_020666.2 , NP_065717.1
RefSeq Size:	2524 bp
RefSeq ORF:	1446 bp
Locus ID:	57396
UniProt ID:	Q9HAZ1
Cytogenetics:	5q35.3
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	The protein encoded by this gene belongs to the CDC2-like protein kinase (CLK) family. This protein kinase can interact with and phosphorylate the serine- and arginine-rich (SR) proteins, which are known to play an important role in the formation of spliceosomes, and thus may be involved in the regulation of alternative splicing. Studies in the Israeli sand rat <i>Psammomys obesus</i> suggested that the ubiquitin-like 5 (UBL5/BEACON), a highly conserved ubiquitin-like protein, may interact with and regulate the activity of this kinase. Multiple alternatively spliced transcript variants have been observed, but the full-length natures of which have not yet been determined. [provided by RefSeq, Jul 2008]