

Product datasheet for **SC128171**

CLK2 (NM_003993) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLK2 (NM_003993) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003993 edited
 AGCATTTTCGTCGCCGCGGGGGTCCGGGACTCCGGCCGACGTGTCGCCGCCATCACGGAC
 TTCCTGTGGGACAAGCGCACGGGCTCGCCGCCAGAACGATGCCGCATCCTCGAAGGTAC
 CACTCCTCAGAGCGAGGCAGCCGGGGAGTTACCGTGAACACTATCGGAGCCGAAAGCAT
 AAGCGACAAGAAGTCGCTCCTGGTCAAGTAGTAGTGACCGGACACGACGGCGTCGGCGA
 GAGGACAGCTACCATGTCGGTTCTCGAAGCAGTTATGATGATCGTTCGTCGACCGGAGG
 GTGTATGACCGCGATACTGTGGCAGCTACAGACGCAACGATTATAGCCGGGATCGGGGA
 GATGCCTACTATGACACAGACTATCGGCATTCTATGAATATCAGCGGGAGAACAGCAGT
 TACCGCAGCCAGCGCAGCAGCCGGAGGAAGCACAGACGGCGGAGGAGGCCAGCCGGACA
 TTTAGCCGCTCATCTTCGCAGCACAGCAGCCGGAGAGCCAAGAGTGTAGAGGACGACGCT
 GAGGGCCACCTCATCTACCACGTCGGGGACTGGCTACAAGAGCGATATGAAATCGTTAGC
 ACCTTAGGAGAGGGGACCTTCGGCCGAGTTGTACAATGTGTTGACCATCGCAGGGGTGGG
 GCTCGAGTTGCCCTGAAGATCATTAAAGATGTGGAGAAGTACAAGGAAGCAGCTCGACTT
 GAGATCAACGTGCTAGAGAAAATCAATGAGAAAGACCCTGACAACAAGAACCTCTGTGTC
 CAGATGTTTGACTGGTTTGACTACCATGGCCACATGTGTATCTCCTTTGAGCTTCTGGGC
 CTTAGCACCTTCGATTTCTCAAAGACAACAACCTACCTGCCCTACCCATCCACCAAGTG
 CGCCACATGGCCCTTCCAGCTGTGCCAGGCTGTCAAGTTCCTCCATGATAACAAGCTGACA
 CATACAGACCTCAAGCCTGAAAATATTCTGTTTGTGAATTCAGACTATGAGCTCACCTAC
 AACCTAGAGAAGAAGCGAGATGAGCGCAGTGTGAAGAGCACAGCTGTGCGGGTGGTAGAC
 TTTGGCAGTGCCACCTTTGACCATGAGCACCATAGCACCATTGTCTCCACTCGCCATTAC
 CGAGCACCAGAAGTCATCCTTGAGTTGGGCTGGTACAGCCTTGTGATGTGTGGAGTATA
 GGCTGCATCATCTTTGAATACTATGTGGGATTACCCCTCTCCAGACCCATGACAACAGA
 ACAAGAAAGCAGAAATATTTTTACCAGGGTCCGCTGGATTGGGATGAGAACACATCAGT
 GGGCGCTATGTTGTCGAGAACTGCAAACCGCTGCGGCGGTATCTGACCTCAGAGGAGAG
 GAACACCACCAGCTCTTCGATCTGATTGAAAGCATGCTAGAGTATGAACCAGCTAAGCGG
 CTGACCTTGGGTGAAGCCCTTCAGCATCCTTTCTTCGCCCGCCTTCGGGCTGAGCCGCC
 AACAAAGTTGTGGGACTCCAGTCGGGATATCAGTCGGTGACGATCAGGCCCTGGGCCCCC
 TGCATCTTTTATAGCAGTGGGTGCCAGTCCAGGACACTGGTGCTTTTTTATAACAAGAGA
 ACGAGCCAGAGTTCACCTC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003993 unedited
 ATACGACTCACTATAGCGCGCCGCAATTCGGCACGAGGGCGGAGCGGAGAGGCCAGAGC
 CGGAGACCAGCTGGGATCGGGCCCCGGGCGGGGGCGGTGCGAGCGGCGCCAAGCAGATC
 TTAGGGGCGGGGACGGAGCCGGGCGGGGCGGACTGAAGCGGAGCCGGGAACGGGGCGG
 GAGGTCCAGGGTCCCGGTTGGGGGGGTGGAGCAGATTTCTGTCGCCGCGGGGTGCC
 GGGACTCCGGCCGAGTGTGCCGCCATCACGGACTTCTGTGGGACAAGCGCACGGGCC
 TCGCCGCCAGAAGATGCCGCATCCTCGAAGTACCCTCCTCAGAGCGAGGCANGCCGG
 GGGAGTTACCGTGAACACTATCGGAGCCGAAAGCATAAGCGACGAAGAAGTCGCTCCTGG
 TCAAGTAGTAGTGACCGACACGACGGCGTCGGCGAGAGGACAGCTACCATGTCCGTTCT
 GNAAGCAGTTATGATTGATCGTTCTGTCGCCGGGAGGGTGTATGACCGGCGATACTGTG
 GCAGNCTACAGACGCACGATATAGCCGGGGATCGGGGAGATGCCTACTATGACACAGACT
 ATCGGCATTCTATGAATTTAGGGGGGGAACAGGAAGTTCGGAAACAGGGCAAACCG
 GGGGGACCCAAAGGGGGAGGGGGGCACCCGGAATTTTACCTTTTTTTTTCCACAAAA
 CCGGGGACCAAGTTTAAAGGGCACCTTGGGCCCTTTTTCCCGGGGGGGCGGTTTC
 CAGAGGATTTAAACTGCCCTTTTGAAGGGGTCTTCCCGGTGTTCAATGGTGGCCCC
 CGGGGGGGGGGGGNNCCCCCAAAAAAAAAAAGGGGGGAAAACACACGCACCC

Restriction Sites: NotI-NotI

ACCN: NM_003993

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_003993.2 , NP_003984.2
RefSeq Size:	2175 bp
RefSeq ORF:	1497 bp
Locus ID:	1196
UniProt ID:	P49760
Cytogenetics:	1q22
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>This gene encodes a dual specificity protein kinase that phosphorylates serine/threonine and tyrosine-containing substrates. Activity of this protein regulates serine- and arginine-rich (SR) proteins of the spliceosomal complex, thereby influencing alternative transcript splicing. Chromosomal translocations have been characterized between this locus and the PAFAH1B3 (platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa)) gene on chromosome 19, resulting in the production of a fusion protein. Note that this gene is distinct from the TELO2 gene (GeneID:9894), which shares the CLK2 alias, but encodes a protein that is involved in telomere length regulation. There is a pseudogene for this gene on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>