

## Product datasheet for **SC117574**

### CLK1 (NM\_004071) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLK1 (NM_004071) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLK1
Synonyms:	CLK; CLK/STY; STY
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene ORF sequence for NM\_004071 edited  
 GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCGAATT  
 CCGCACGAGGCGCGACGCAGTCAGCTGCGTGATTCCCCTGATTGCGTTACAAGCTTTGTC  
 TCCTTCGACTTGGAGTCTTTGTCCAGGACGATGAGACACTCAAAGAGAACTTACTGTCCT  
 GATTGGGATGACAAGGATTGGGATTATGGAAAAATGGAGGAGCAGCAGCAGTCATAAAGA  
 AGGAAGAGATCACATAGCAGTGCCCATGAGAACAAGCGCTGCAAAATACAATCACTCTAAA  
 ATGTGTGATAGCCATTATTTGGAAAGCAGGTCTATAAATGAGAAAGATTATCATAGTCGA  
 CGCTACATTGATGAGTACAGAAATGACTACACTCAAGGATGTGAACCTGGACATCGCCAA  
 AGAGACCATGAAAAGCCGGTATCAGAACCATAGTAGCAAGTCTTCTGGTAGAAGTGGAAAG  
 AGTAGTTATAAAAGCAAACACAGGATTCACCACAGTACTTCACATCGTCGTTACATGGG  
 AAGAGTACCCGAAGGAAAAGAACCAGGAGTGTAGAGGATGATGAGGAGGGTCACTGATC  
 TGTCAGAGTGGAGACGTAAGTGCAAGATATGAAATTTGTTGATACTTTAGGTGAAGGA  
 GCTTTTGGAAAAGTTGTGGAGTGCATCGATCATAAAGCGGGAGGTAGACATGTAGCAGTA  
 AAAATAGTTAAAAATGTGGATAGATACTGTGAAGCTGCTCGCTCAGAAATACAAGTTCTG  
 GAACATCTGAATACAACAGACCCCAACAGTACTTTCCGCTGTGTCCAGATGTTGGATGG  
 TTTGAGCATCATGGTCACATTTGCATTGTTTTTGAACATTGGGACTTAGTACTTACGAC  
 TTCATTAAGAAAATGGTTTTCTACCATTTGACTGGATCATATCAGAAAGATGGCATAT  
 CAGATATGCAAGTCTGTGAATTTTTTGCACAGTAATAAGTTGACTCACACAGACTTAAAG  
 CCTGAAAACATCTTATTTGTGCACTGACTACACAGAGGCGTATAATCCCAAAAATAAAA  
 CGTGATGAACGCACCTTAATAAATCCAGATATTAAGTTGTAGACTTTGGTAGTGAACA  
 TATGATGACGAACATCACAGTACATTGGTATCTACAAGACATTATAGAGCACCTGAAGTT  
 ATTTTAGCCCTAGGGTGGTCCCAACCATGTGATGTCTGGAGCATAGGATGCATTCATTATT  
 GAATACTATCTTGGTTTTACCGTATTTTCCAACACACGATAGTAAGGAGCATTTAGCAATG  
 ATGAAAAGGATTCTTGGACCTCTACCAAAACATATGATACAGAAAACCAGGAAACGTAAA  
 TATTTTACCACGATCGATTAGACTGGGATGAACACAGTTCTGCCGCGAGATATGTTTCA  
 AGACGCTGTAACCTCTGAAGGAATTTATGCTTCTCAAGATGTTGAACATGAGCGTCTC  
 TTTGACCTCATTAGAAAATGTTGGAGTATGATCCAGCCAAAAGAATTACTCTCAGAGAA  
 GCCTTAAAGCATCTTTCTTTGACCTTCTGAAGAAAAGTATATAGATCTGTAATTGGACA  
 GCTCTCTCGAAGAGATCTTACAGACTGTATCAGTCTAATTTTTAAATTTTAAAGTTATTTT  
 GTACAGCTTTGTAATTTCTAACATTTTTATATTGCCATGTTATTTTGGTTGGTAATT  
 TGGTTCATTAAGTACATAGCTAAGGTAATGAACTTTTTTTCAGTAATTGTAAGTGATTT  
 ATTCAGAATAAT

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004071 unedited  
 TGAATTTGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGCGCGACGCAG  
 TCAGCTGCGTGATTCCCCTGATTGCGTTACAAGCTTTGTCTCCTTCGACTTGGAGTCTTT  
 GTCCAGGACGATGAGACACTCAAAGAGAACTTACTGTCCTGATTGGGATGACAAGGATTG  
 GGATTATGGAAAATGGAGGAGCAGCAGCAGTCATAAAAGAAAGGAGATCACATAGCAG  
 TGCCCATGAGAACAAGCGCTGCAAAATACAATCACTCTAAAATGTGTGATAGCCATTATTT  
 GGAAAGCAGGTCTATAAATGAGAAAAGTTATCATAGTCGACGCTACATTGATGAGTACAG  
 AAATGACTACACTCAAGGATGTGAACCTGGACATCGCCAAAGAGACCATGAAAGCCGGTA  
 TCAGAACCATAGTAGCAAGTCTTCTGGTAGAAGTGAAGAAGTAGTTATAAAAGCAAACA  
 CAGGATTCACCACAGTACTTCACATCGTCGTTACATGGGAAGAGTCACCGAAGGAAAAG  
 AACCAGGAGTGTAGAGGATGATGAGGAGGGTCACTGATCTGTCAGAGTGGAGACGTA  
 AAGTGCAAGATATGAAATTTGTTGATACTTTAGGTGAAGGAGCTTTTGGAAAAGTTGTGGA  
 GTGCATCGATCATAAAGCGGGAGGTAGACATGTAGCAGTAAAAATAGTTAAAAATGTGGA  
 TAGATACTGTGAAGCTGCTCGCTCAGAAAATACAAGTTCTGGAACATNNCTGATACACAGA  
 CCCCAACAGTACTTTCCGCTGTGTCCAGATGTTGGAATGGTTTGGAGCATCATGGTCACAT  
 TTGCATTGNNTTTGAACATTGGGACTTAGTACTTACGACTTCATTAAGAAGNTGGTTTC  
 TACCATTTCGACTGGATCTATCAGAAGATGGCATATAGATTGCAGTCTGTGATTTTTGCAC  
 AGTATAGTGCTACAGACTAAAGCTGAACATCATGT

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004071 unedited NNCCCCTACTGTGNACCGCGCCCGCTTTCTAGNGATCGATTTTTTTTTTTTTTTTTTTTTT TCAGAAACATATCAACTTCATAAGCACAAAAAATTATTCTGAATAAATCACTTTACAATT ACTGAAAAAAGTTACCTTAGCTATGTACTTAATGAACCAAATTACCCAAACAAAA TAAACATGGCAATATAAAAATGTTAAGAATTTACAAATCTGTACAAAATAACTTAAAT TAAAAATTAGACTGATACAGTCTGTAAGATCTCTTCGAGAGAGCTGTCCAATTACAGATC TATATACTTTTCTCAGAAGGTCAAAGAAAGGATGCTTTAAGGCTTCTCTGAGAGTAATT CTTTTGGCTGGATCATACTCCAACATTTTCTGAATGAGGTCAAAGAGACGCTCATGTTCA ACATCTTGAGAAAAGCATAAATTCCTTCAGAGGTTTACAGCGTCTTGAAACATATCTGCCG GCAGAAGTGTGTTTCCAGTCTAATCGATCGTGGTGAATAATTTACGTTTCTCGTT TTCTGTATCATATGTTTTGGTAGAGGTCCAAGAATCCTTTCCATCATTGCTAAATGCTCC TTAATATCGTGTGTTGAAATACGGTAAACCCAAGATAGTATTCAATAAGAATGCATCCT ATGCTCCAGACATCACATGGTTGGGACCACCCTAGGGCTAAAATAACTTCAGGTGCTCTA TAATGTCTGTAGATACCAATGTACTGTGATGTCGTCATCATATGTTGCACTACCAAAG TCTACAACCTTAAATATCTGATTTATTAAGGTGCGTCCATCACGTTTTATTTGGGATAT ACGCTTCTGGTGTATCAAACCTGGACAATAAAATGTTTTAAGCTTAAAGTCTGGTGAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004071
<b>Insert Size:</b>	2000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004071.2</a> , <a href="#">NP_004062.2</a>
<b>RefSeq Size:</b>	1887 bp
<b>RefSeq ORF:</b>	1455 bp
<b>Locus ID:</b>	1195
<b>UniProt ID:</b>	<a href="#">P49759</a>
<b>Cytogenetics:</b>	2q33.1
<b>Domains:</b>	pkinaase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

**Gene Summary:**

This gene encodes a member of the CDC2-like (or LAMMER) family of dual specificity protein kinases. In the nucleus, the encoded protein phosphorylates serine/arginine-rich proteins involved in pre-mRNA processing, releasing them into the nucleoplasm. The choice of splice sites during pre-mRNA processing may be regulated by the concentration of transacting factors, including serine/arginine rich proteins. Therefore, the encoded protein may play an indirect role in governing splice site selection. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]

Transcript Variant: This variant (1) encodes the shorter isoform (1).