

## Product datasheet for **RC208778**

### **CLK2 (NM\_003993) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CLK2 (NM_003993) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC208778 representing NM\_003993  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCGCATCCTCGAAGGTACCACTCCTCAGAGCGAGGCAGCCGGGGAGTTACCGTGAACACTATCGGA  
 GCCGAAAGCATAAGCGACGAAGAAGTCGCTCCTGGTCAAGTAGTAGTGACCGGACACGACGGCGTCGGCG  
 AGAGGACAGCTACCATGTCCGTTCTCGAAGCAGTTATGATGATCGTTCGTCGACCGGAGGGTGTATGAC  
 CGGCGATACTGTGGCAGCTACAGACGCAACGATTATAGCCGGGATCGGGGAGATGCCTACTATGACACAG  
 ACTATCGGCATTCTATGAATATCAGCGGGAGAACAGCAGTTACCGCAGCCAGCGCAGCAGCCGGAGGAA  
 GCACAGACGGCGGAGGAGGCGCAGCCGGACATTTAGCCGCTCATCTTCGACGACAGCAGCCGGAGAGCC  
 AAGAGTGTAGAGGACGACGCTGAGGGCCACCTCATCTACCACGTCGGGGACTGGCTACAAGAGCGATATG  
 AAATCGTTAGCACCTTAGGAGAGGGGACCTTCGGCCGAGTTGTACAATGTGTTGACCATCGCAGGGGTGG  
 GGCTCGAGTTGCCCTGAAGATCATTAAAGATGTGGAGAAGTACAAGGAAGCAGCTCGACTTGAGATCAAC  
 GTGCTAGAGAAAATCAATGAGAAAGACCCTGACAACAAGAACCTCTGTGTCCAGATGTTTACTGGTTTG  
 ACTACCATGGCCACATGTGTATCTCCTTTGAGCTTCTGGGCTTAGCACCTTCGATTTCTCAAAGACAA  
 CAACTACCTGCCCTACCCATCCACCAAGTGCGCCACATGGCCTTCCAGCTGTGCCAGGCTGTCAAGTTC  
 CTCCATGATAACAAGCTGACACATACAGACCTCAAGCCTGAAAATATTCTGTTTGTGAATTCAGACTATG  
 AGCTCACCTACAACCTAGAGAAGAAGCGAGATGAGCGCAGTGTGAAGAGCACAGCTGTGCCGGTGGTAGA  
 CTTTGGCAGTGCCACCTTGACCATGAGCACCATAGCACCATTGTCTCCACTCGCCATTACCGAGCACCA  
 GAAGTCATCCTTGAGTTGGGCTGGTCACAGCCTTGTGATGTGTGGAGTATAGGCTGCATCATCTTTGAAT  
 ACTATGTGGGATTCACCCTCTCCAGACCCATGACAACAGAGAGCATCTAGCCATGATGGAAAGGATCTT  
 GGGTCCTATCCCTTCCCGGATGATCCGAAAGACAAGAAAGCAGAAATATTTTTACCGGGTCCGCTGGAT  
 TGGGATGAGAACACATCAGCTGGGCGCTATGTTCTGTGAGAACTGCAAACCCTGCGGCGGTATCTGACCT  
 CAGAGGCAGAGGAACACCACCAGCTCTTCGATCTGATTGAAAGCATGCTAGAGTATGAACCAGCTAAGCG  
 GCTGACCTTGGGTGAAGCCCTTACGATCCTTTCTCGCCCGCTTCGGGCTGAGCCGCCAACAAAGTTG  
 TGGGACTCCAGTCGGGATATCAGTCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC208778 representing NM\_003993  
 Red=Cloning site Green=Tags(s)

MPHPRRYHSSERGSRGSYREHYRSRKHKRRRSRSWSSSSDRTRRRRRREDSYHVRSRSSYDDRSSDRRVYD  
 RRYCGSYRRNDYSRDRGDAYYD TDYRHSYEQRENSSYRSQRSSRRKHRRRRRRSRTFSRSSSQHSSRRA  
 KSVEDDAEGHLIYHVGDWLQERYEIVSTLGEFTFGRVVQCVDHRRGGARVALKI IKNVEKYKEAARLEIN  
 VLEKINEKDPDNKNCVQMFDFDYHGHMCISFELLGLSTFDLKDNNYLPYPIHQVRHMAFQLCQAVKF  
 LHDNKLTHDLPENILFVNSDYELTYNLEKKRDESVKSTAVRVVDFGSATFDHEHSTIVSTRHYRAP  
 EVILELGSQPCDVWSIGCIIFEYVGFRLFQTHDNREHLAMMERILGPIPSRMIRKTRKQKYFYRGRLD  
 WDENTSAGRYVRENCKPLRRYLSEAEEHQLFDLIESMLEYEPKRLTLGEALQHPFFARLRAEPPNKL  
 WDSSRDISR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2506\\_e07.zip](https://cdn.origene.com/chromatograms/mg2506_e07.zip)

**Restriction Sites:**

Sgfl-MluI



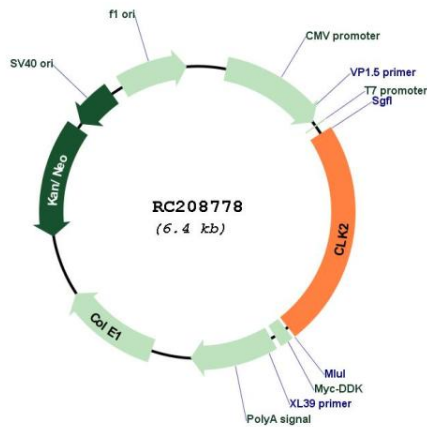
**Domains:** pkinase, TyrKc, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

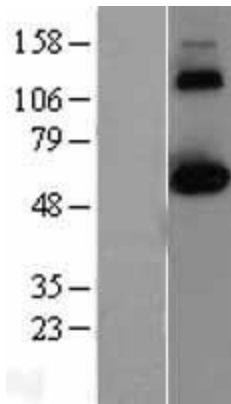
**MW:** 59.8 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for RC208778



Western blot validation of overexpression lysate (Cat# [LY401307]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208778 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).