

Product datasheet for **RC238579**

CLK2 (NM_001294338) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLK2 (NM_001294338) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLK2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238579 representing NM_001294338
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGCATCCTCGAAGGTACCACTCCTCAGAGCGAGGCAGCCGGGGAGTTACCGTGAACACTATCGGA
 GCCGAAAGCATAAGCGACGAAGAAGTCGCTCCTGGTCAAGTAGTAGTGACCGGACACGACGGCGTCGGCG
 AGAGGACAGCTACCATGTCGGTTCTCGAAGCAGTTATGATGATCGTTCGTCGACCGGAGGGTGTATGAC
 CGGCGATACTGTGGCAGCTACAGACGCAACGATTATAGCCGGGATCGGGGAGATGCCTACTATGACACAG
 ACTATCGGCATTCTATGAATATCAGCGGGAGAACAGCAGTTACCGCAGCCAGCGCAGCAGCCGGAGGAA
 GCACAGACGGCGGAGGAGGCGCAGCCGGACATTTAGCCGCTCATCTTCGACGACAGCAGCCGGAGAGCC
 AAGAGTGTAGAGGACGACGCTGAGGGCCACCTCATCTACCACGTCGGGGACTGGCTACAAGAGCGATATG
 AAATCGTTAGCACCTTAGGAGAGGGGACCTTCGGCCGAGTTGTACAATGTGTTGACCATCGCAGGGGTGG
 GGCTCGAGTTGCCCTGAAGATCATTAAAGATGTGGAGAAGTACAAGGAAGCAGCTCGACTTGAGATCAAC
 GTGCTAGAGAAAATCAATGAGAAAGACCCTGACAACAAGAACCTCTGTGTCCAGATGTTTACTGGTTTG
 ACTACCATGGCCACATGTGTATCTCCTTTGAGCTTCTGGGCTTAGCACCTTCGATTTTCTCAAAGACAA
 CAACTACCTGCCCTACCCATCCACCAAGTGCGCCACATGGCCTTCCAGCTGTGCCAGGCTGTCAAGTTC
 CTCCATGATAACAAGCTGACACATACAGACCTCAAGCCTGAAAATATTCTGTTTGTGAATTCAGACTATG
 AGCTCACCTACAACCTAGAGAAGAAGCGAGATGAGCGCAGTGTGAAGAGCACAGCTGTGCCGGTGGTAGA
 CTTTGGCAGTGCCACCTTGACCATGAGCACCATAGCACCATTGTCTCCACTCGCCATTACCGAGCACCA
 GAAGTCATCCTTGAGTTGGGCTGGTCACAGCCTTGTGATGTGTGGAGTATAGGCTGCATCATCTTTGAAT
 ACTATGTGGGATTCACCCTCTCCAGACCCATGACAACAGAGAGCATCTAGCCATGAGAAAGGATCTT
 GGGTCCTATCCCTTCCCGGATGATCCGAAAGACAAGAAAGCAGAAATATTTTTACCGGGGTCGCTGGAT
 TGGGATGAGAACACATCAGCTGGGCGCTATGTTCTGTGAGAACTGCAAACCCTGCGGCGGTATCTGACCT
 CAGAGGCAGAGGAACACCACCAGCTCTTCGATCTGATTGAAAGCATGCTAGAGTATGAACCAGCTAAGCG
 GCTGACCTTGGGTGAAGCCCTTCAAGCATCCTTTCTCGCCCGCTTCGGGCTGAGCCGCCAACAAAGTTG
 TGGGACTCCAGTCGGGATATCAGTCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238579 representing NM_001294338
 Red=Cloning site Green=Tags(s)

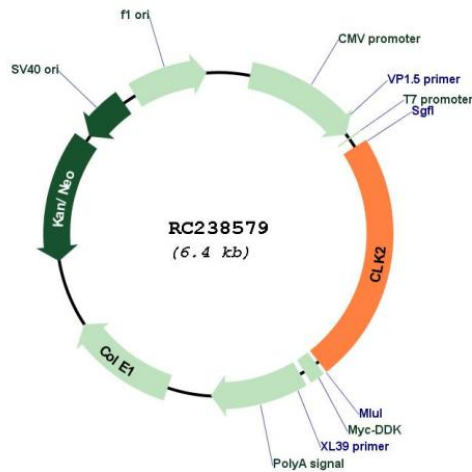
MPHPRRYHSSERGSRGSYREHYRSRKHKRRRSRSWSSSSDRTRRRRRRREDSYHVRSRSSYDDRSSDRRVYD
 RRYCGSYRRNDYSRDRGDAYYDTRHRSYEQRENSYSRQRSSRRKHRRRRRRSRTFSRSSSQHSSRRA
 KSVEDDAEGHLIYHVGDWLQERYEIVSTLGEFTGRVVQCVDHRRGGARVALKIKNVEKYKEAARLEIN
 VLEKINEKDPDNKLCVQMFDFDYHGHMCISFELLGLSTFDLKDNNYLPYPIHQVRHMAFQLCQAVKF
 LHDNKLTHDLKPENILFVNSDYELTYNLEKKRDESVKSTAVRVVDFGSATFDHEHSTIVSTRHYRAP
 EVILELGSQPCDVWSIGCIIFEYVVGFTLFQTHDNREHLAMMERILGPIPSRMIRKTRKQKYFYRGRLD
 WDENTSAGRYVRENCKPLRRYL TSEAEHHQLFDLIESMLEYEPKRLTLGEALQHPFFARLRAEPPNKL
 WDSSRDISR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


ACCN: NM_001294338

ORF Size: 1497 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001294338.2](#)

RefSeq Size: 2203 bp

RefSeq ORF: 1500 bp

Locus ID: 1196

UniProt ID: [P49760](#)

Cytogenetics: 1q22

Protein Families: Druggable Genome, Protein Kinase

MW: 60.5 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 (GenelD: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]