

Product datasheet for **RG237067**

CLK2 (NM_001294339) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLK2 (NM_001294339) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237067 representing NM_001294339. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTGACTGGTTTGACTACCATGGCCACATGTGTATCTCCTTTGAGCTTCTGGGCCTTAGCACCTTC
GATTTCTCAAAGACAACAACACTACCTGCCCTACCCCATCCACCAAGTGCGCCACATGGCCTTCCAGCTG
TGCCAGGCTGTCAAGTTCCTCCATGATAACAAGCTGACACATACAGACCTCAAGCCTGAAAATATTCTG
TTTGTGAATTCAGACTATGAGCTCACCTACAACCTAGAGAAGAAGCGAGATGAGCGCAGTGTGAAGAGC
ACAGCTGTGCGGGTGGTAGACTTTGGCAGTGCCACCTTTGACCATGAGCACCATAGCACCATTGTCTCC
ACTCGCCATTACCGAGCACCAGAAGTCATCCTTGAGTTGGCTGGTCACAGCCTTGTGATGTGGAGT
ATAGGCTGCATCATCTTTGAATACTATGTGGGATTCACCCTCTTCCAGACCCATGACAACAGAGAGCAT
CTAGCCATGATGAAAGGATCTTGGTCTATCCCTTCCCGATGATCCGAAAGACAAGAAAGCAGAAA
TATTTTTACCGGGTTCGCTGGATTGGGATGAGAACACATCAGCTGGGCGCTATGTTTCGTGAGAACTGC
AAACCGCTGCGGGTATCTGACCTCAGAGGCAGAGGAACACCACCAGCTCTTCGATCTGATTGAAAGC
ATGCTAGAGTATGAACCAGCTAAGCGGCTGACCTTGGGTGAAGCCCTTCCAGATCCTTTCTCGCCCGC
CTTCGGGCTGAGCCGCCAACAAAGTTGTGGGACTCCAGTCGGGATATCAGTCGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



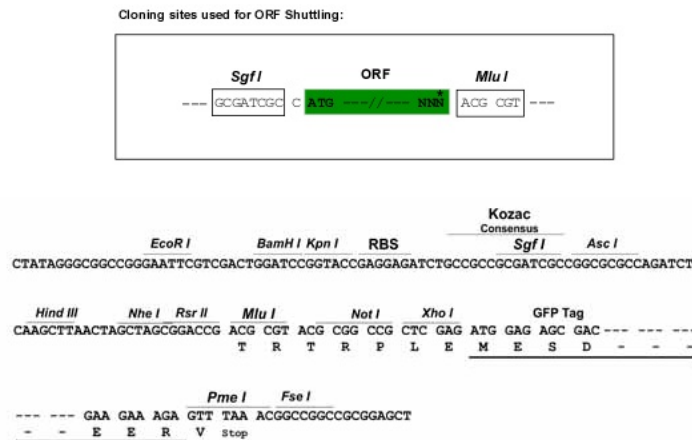
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237067
 Blue=ORF Red=Cloning site Green=Tag(s)

MFDWFDYHGHMCISFELLGLSTFDLKDNNYLPYPIHQVRHMAFQLCQAVKFLHDNKLTHDLKPENIL
 FVNSDYELTYNLEKKRDRSVKSTAVRVVDFGSATFDHEHHSTIVSTRHYRAPEVILELGSQPCDVWS
 IGCIIFEYVGF TLFQTHDNREHLAMMERILGPISRMIRKTRKQKYFYRGRLDWIDENTSAGRYVRENC
 KPLRRYL TSEAEHHQLFDLIESMLEYEPKRLTLGEALQHPFFARLRAEPPNKLWSSRDISR
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001294339

ORF Size: 813 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).

RefSeq: [NM_001294339.2](#)

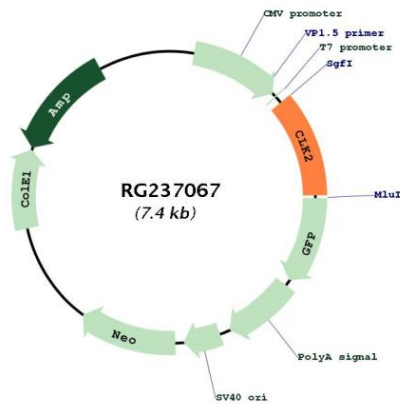
RefSeq Size: 2115 bp

RefSeq ORF: 816 bp

Locus ID: 1196
UniProt ID: [P49760](#)
Cytogenetics: 1q22
Protein Families: Druggable Genome, Protein Kinase
MW: 32.8 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 RG237067