

Product datasheet for **RG238579**

CLK2 (NM_001294338) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLK2 (NM_001294338) 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:	>RG238579 representing NM_001294338. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCGCATCCTCGAAGGTACCACTCCTCAGAGCGAGGCAGCCGGGGGAGTTACCGTGAACACTATCGG
AGCCGAAAGCATAAGCGACGAAGAAGTCGCTCCTGGTCAAGTAGTAGTACCACGACACGACGCGCTCGG
CGAGAGGACAGCTACCATGTCCGTTCTCGAAGCAGTTATGATGATCGTTCGTCGACCGGAGGGTGTAT
GACCGCGGATACTGTGGCAGCTACAGACGCAACGATTATAGCCGGATCGGGGAGATGCCTACTATGAC
ACAGACTATCGGCATTCTATGAATATCAGCGGGAGAACAGCAGTTACCGCAGCCAGCCAGCAGCCGG
AGGAAGCACAGACGGCGGAGGAGCGCAGCCGGACATTTAGCCGCTCATCTTCGCAGCACAGCAGCCGG
AGAGCCAAAGAGTGTAGAGGACGACGCTGAGGGCCACCTCATCTACCACGTCGGGGACTGGCTACAAGAG
CGATATGAAATCGTTAGCACCTTAGGAGAGGGGACCTTCGGCCGAGTTGTACAATGTGTTGACCATCGC
AGGGGTGGGGCTCGAGTTGCCCTGAAGATCATTAGAATGTGGAGAAGTACAAGGAAGCAGCTCGACTT
GAGATCAACGTGCTAGAGAAAAATCAATGAGAAAGACCCTGACAACAAGAACCTCTGTGTCCAGATGTTT
GACTGGTTTGACTACCATGGCCACATGTGTATCTCCTTTGAGCTTCTGGCCTTAGCACCTTCGATTTT
CTCAAAGACAACAACCTACCTGCCCTACCCATCCACCAAGTGCGCCACATGGCCTCCAGCTGTGCCAG
GCTGTCAAGTTCCTCCATGATAACAAGCTGACACATACAGACCTCAAGCCTGAAAATATTCTGTTTGTG
AATTCAGACTATGAGCTCACCTACAACCTAGAGAAGAAGCGAGATGAGCGCAGTGTGAAGAGCACAGCT
GTGCGGGTGGTAGACTTTGGCAGTGCCACCTTTGACCATGAGCACCATAGCACCATTGTCTCCACTCGC
CATTACCGAGCACCAGAAGTCATCCTTGAGTTGGGCTGGTCCAGCCTTGTGATGTGTGGAGTATAGGC
TGCATCATCTTTGAATACTATGTGGGATTCACCCTCTCCAGACCATGACAACAGAGAGCATCTAGCC
ATGATGAAAGGATCTTGGGTCCTATCCCTTCCCGGATGATCCGAAAGACAAGAAAGCAGAAATATTTT
TACCGGGTCCGCTGGATTGGGATGAGAACACATCAGCTGGGCGCTATGTTTCGTGAGAACTGCAACCG
CTGCGCGGTATCTGACCTCAGAGGCAGAGGAACACCACAGCTCTTCGATCTGATTGAAAGCATGCTA
GAGTATGAACAGCTAAGCGGCTGACCTTGGGTGAAGCCCTTCAGCATCCTTTCTTCGCCGCTTCGG
GCTGAGCCGCCAACAAAGTTGTGGGACTCCAGTCGGGATATCAGTCGG
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



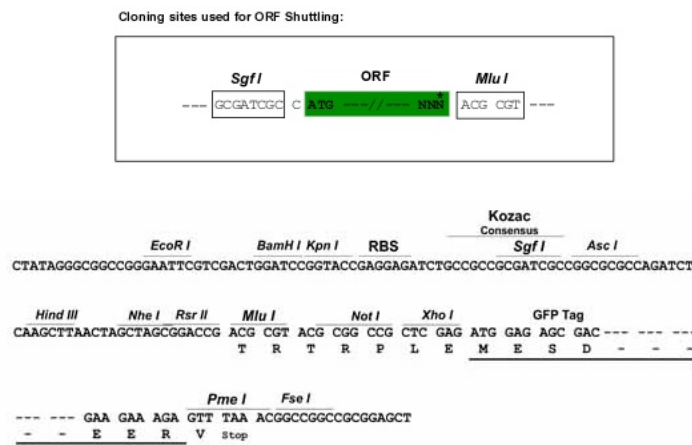
[View online »](#)

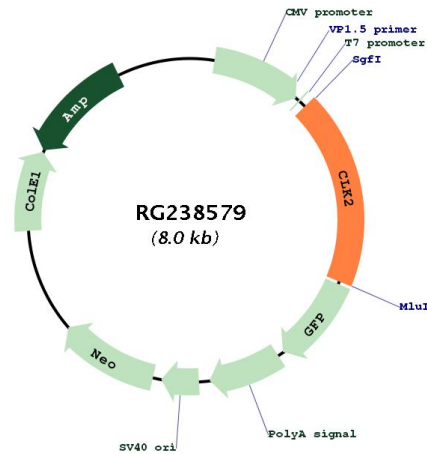
Protein Sequence: >Peptide sequence encoded by RG238579
 Blue=ORF Red=Cloning site Green=Tag(s)

MPHPRRYHSSERGRSGSYREHYRSRKHKRRRSRSWSSSSDRTRRRRRREDSYHVRSRSSYDDRSSDRRVY
 DRRYCGSYRRNDYSRDRGDAYYDTRHSEYEQRENSSYRSQRSSRRKHHRRRRRSRTFSRSSSQHSSR
 RAKSVEDDAEGLIYHVGDWLQERYEIVSTLGEGETFGRVVQCVDHRRGGARVALKIIKNVEKYKAARL
 EINVLEKINEKDPDNKNLCVQMFDFWFDYHGHMCISFELLGLSTFDFLKDNNYLPYPIHQVRHMAFQLCQ
 AVKFLHDNKLTHDLPENILFVNSDYELTYNLEKKRDESVKSTAVRVVDFGSATFDHEHHSTIVSTR
 HYRAPEVILELGWSQPCDVWSIGCIIFEYVGFRLFQTHDNREHLAMMERILGPIPSRMIRKTRKQKYF
 YRGRLDWDENTSAGRYVRENCKPLRRYLTSAAEEHHQLFDLIESMLEYEPAKRTLGEALQHPFFARLR
 AEPPNKLWSSRDISR
TRTRPLEMESDESLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-MluI

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).

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 (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]