

## Product datasheet for **RG214819**

### **CLK4 (NM\_020666) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CLK4 (NM_020666) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214819 representing NM\_020666  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGCATTCCAAAAGAACTACTGTCTGATTGGGATAGCAGAGAAAGCTGGGGACATGAAAGCTATC  
 GTGGAAGTCACAAGCGGAAGAGGAGATCTCATAGTAGCACACAAGAGAACAGGCATTGTAACCACATCA  
 CCAGTTTAAAGAATCTGATTGTCTATTATTAGAAAGCAAGGTCCTTGAATGAGCGAGATTATCGGGACCGG  
 AGATACGTTGACGAATACAGGAATGACTACTGTGAAGGATATGTTCTAGACATTATCACAGAGACATTG  
 AAAGCGGGTATCGAATCCACTGCAGTAAATCTTCAGTCCGAGCAGGAGAAGCAGTCCTAAAAGGAAGCG  
 CAATAGACACTGTTCAAGTCATCAGTCACGTTCTGAAGAGCCACCGAAGGAAAAGATCCAGGAGTATAGAG  
 GATGATGAGGAGGTCACCTGATCTGTCAAAGTGGAGACGTTCTAAGAGCAAGATATGAAATCGTGGACA  
 CTTTGGGTGAAGGAGCCTTTGGCAAAGTGTAGAGTGCATTGATCATGGCATGGATGGCATGCATGTAGC  
 AGTGAAAATCGTAAAAATGTAGGCCGTTACCGTGAAGCAGCTCGTTAGAAAATCCAAGTATTAGAGCAC  
 TTAATAGTACTGATCCCAATAGTGTCTCCGATGTGTCCAGATGCTAGAATGGTTTGATCATCATGGTC  
 ATGTTTGTATTGTTTGAACACTGGGACTTAGTACTTACGATTTTCAATAAAGAAAACAGCTTTCTGCC  
 ATTTCAAATTGACCACATCAGGCAGATGGCGTATCAGATCTGCCAGTCAATAAATTTTTTACATCATAAT  
 AAATTAACCCATACAGATCTGAAGCCTGAAAATATTTTGTGTTGTAAGTCTGACTATGTAGTCAAATATA  
 ATTCTAAAATGAAACGTGATGAACGCACACTGAAAACACAGATATCAAAGTTGTTGACTTTGGAAGTGC  
 AACGTATGATGATGAACATCACAGTACTTTGGTGTCTACCGGCACTACAGAGCTCCCGAGGTCAATTTG  
 GCTTTAGGTTGGTCTCAGCCTTGTGATGTTTGGAGCATAGGTTGCATTCTTATTGAATATTACCTTGTT  
 TCACAGCTTTTCAGACTCATGATAGTAAAGAGCACCTGGCAATGATGGAACGAATATTAGGACCCATACC  
 ACAACACATGATTCAGAAAACAAGAAAACGCAAGTATTTTACCATAACCAGCTAGATTGGGATGAACAC  
 AGTTCGCTGGTAGATATGTTAGGAGACGCTGCAAACCGTTGAAGGAATTTATGCTTTGTCATGATGAAG  
 AACATGAGAACTGTTTGACCTGGTTCGAAGAATGTTAGAATATGATCCAACCTCAAAGAATTACCTTGA  
 TGAAGCATTGCAGCATCTTTCTTTGACTTATTAATAAAGAAA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG214819 representing NM\_020666  
 Red=Cloning site Green=Tags(s)

MRHSKRTHCPDWDSRESWGHESYRGSCHKRRSHSSTQENRHCKPHHQFKESDCHYLEARSLNERDYRDR  
 RYVDEYRNDYCEGYVPRHYHRDIESGYRIHCSKSSVRSRRSSPKRKRNRHCSSHQSRKSHRRKRSRSIE  
 DDEEGLICQSGDVLRARYEIVDTLGEFAGKVVVEIDHGMDGMHVAVKIVKNVGRYREARSEIQVLEH  
 LNSTDPNVFRVQMLEWFDHGHVCFVPELLGLSTYDFIKENSFLPFQIDHIRQMAYQICQSINFLHNN  
 KLTHDLKPENILFVKSDYVVKYNSKMKRDERTLKNNTDIKVVDFGSATYDDEHSTLVSTRHYRAPEVIL  
 ALGWSQPCDVWSIGCILIEYYLGFVTFVQTHDSKEHLAMMERILGPIQHMIIQKTRKRKYFHHNQLDWEH  
 SSAGRYVRRRCKPLKEFMLCHDEEHEKLFDLVRRMLEYDPTQRITLDEALQHPFFDLLKKK

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_020666

**ORF Size:** 1443 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_020666.3](#)

RefSeq Size: 2524 bp

RefSeq ORF: 1446 bp

Locus ID: 57396

UniProt ID: [Q9HAZ1](#)

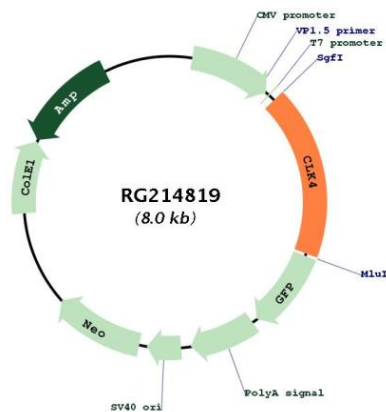
Cytogenetics: 5q35.3

Domains: pkinase, TyrKc, S\_TKc

Protein Families: Druggable Genome, Protein Kinase

**Gene Summary:** The protein encoded by this gene belongs to the CDC2-like protein kinase (CLK) family. This protein kinase can interact with and phosphorylate the serine- and arginine-rich (SR) proteins, which are known to play an important role in the formation of spliceosomes, and thus may be involved in the regulation of alternative splicing. Studies in the Israeli sand rat *Psammomys obesus* suggested that the ubiquitin-like 5 (UBL5/BEACON), a highly conserved ubiquitin-like protein, may interact with and regulate the activity of this kinase. Multiple alternatively spliced transcript variants have been observed, but the full-length nature of which have not yet been determined. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG214819