

## Product datasheet for **RG204443**

### CLK1 (NM\_004071) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLK1 (NM_004071) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLK1
Synonyms:	CLK; CLK/STY; STY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204443 representing NM\_004071  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGACACTCAAGAGAACTTACTGTCCTGATTGGGATGACAAGGATTGGGATTATGGAAAATGGAGGA  
 GCAGCAGCAGTCATAAAAGAAGGAAGAGATCAGATAGCAGTGCCAGGAGAAACAAGCGCTGCAAATACAA  
 TCACTCTAAAATGTGTAGTACGATTATTTGGAAAGCAGGTCTATAAATGAGAAAGATTATCATAGTCGA  
 CGCTACATTGATGAGTACAGAAATGACTACACTCAAGGATGTGAACCTGGACATCGCCAAAGAGACCATG  
 AAAGCCGGTATCAGAACCATAGTAGCAAGTCTTCTGGTAGAAGTGAAGAAGTAGTTATAAAAGCAAACA  
 CAGGATTCACCACAGTACTTCACATCGTCGTTACATGGGAAGAGTACCAGGAAAGAAAGAACAGGAGT  
 GTAGAGGATGATGAGGAGGTCACCTGATCTGTCAGAGTGGAGACGTAAGTGAAGATATGAAATTG  
 TTGATACTTTAGGTGAAGGAGCTTTTGGAAAAGTTGGGAGTGCATCGATCATAAAGCGGGAGGTAGACA  
 TGTAGCAGTAAAAATAGTTAAAAATGTGGATAGATACTGTGAAGCTGCTCGCTCAGAAATACAAGTTCTG  
 GAACATCTGAATACAACAGACCCCAACAGTACTTCCCGCTGTGTCCAGATGTTGGAATGGTTTGAGCATC  
 ATGGTTCACATTTGCATTGTTTTGAACTATTGGGACTTAGTACTTACGACTTCATTAAAGAAAATGGTTT  
 TCTACATTTTCGACTGGATCATATCAGAAAAGTGGCATATCAGATATGCAAGTCTGTGAATTTTTGCAC  
 AGTAATAAGTTGACTCACACAGACTTAAAGCCTGAAAACATCTTATTTGTGCAGTCTGACTACACAGAGG  
 CGTATAATCCCAAAAATAAACGTGATGAACGCACCTTAATAAATCCAGATATTAAGTTGTAGACTTTGG  
 TAGTGCAACATATGATGACGAACATCACAGTACATTGGTATCTACAAGACATTATAGAGCACCTGAAGTT  
 ATTTTAGCCCTAGGGTGGTCCCAACCATGTGATGTCTGGAGCATAGGATGCATTCTTATGAATACTATC  
 TTGGGTTTACCGTATTTCCAACACACGATAGTAAGGAGCATTTAGCAATGATGGAAGGATTTCTGGACC  
 TCTACCAAAAACATATGATACAGAAAACAGGAAACGTAATAATTTTACCACGATCGATTAGACTGGGAT  
 GAACACAGTTCTGCCGGCAGATATGTTTCAAGACGCTGTAACCTCTGAAGGAATTTATGCTTTCTCAAG  
 ATGTTGAACATGAGCGTCTCTTTGACCTCATTAGAAAATGTTGGAGTATGATCCAGCCAAAAGAATTAC  
 TCTCAGAGAAGCCTTAAAGCATCTTTCTTTGACCTTCTGAAGAAAAGTATA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG204443 representing NM\_004071  
 Red=Cloning site Green=Tags(s)

MRHSKRTYCPDWDKDWYDGKWRSSSSHKRRKRSHSSAQENKCRKYNHSMCDSHYLESRSINEKDYHSR  
 RYIDEYRNDYTQCEPGRHRQDHESTRYQNHSSKSSGRSGRSSYSKHRIHHSTSHRRSHGKSHRRKRTRS  
 VEDDEEGLICQSGDVL SARYEIVDTLGEFAGKVVVECIDHKAGGRHVAVKIVKNVDRYCEARSEIQVL  
 EHLNTTDPNSTFRVCVQMLEWFEEHGHICIVFELLGLSTYDFIKENGF L PFRLDHIRKMAYQICKSVNFLH  
 SNKLTHTDLKPENILFVQSDYTEAYNPKIKRDERTLINPDIKVDFG SATYDDEHHSTLVSTRHYRAPEV  
 ILALGWSQPCDVWSIGCILIEYYLGFVTFPHDSKEHLAMMERILGPLPKHMIQKTRKRKYFHHDRLDWD  
 EHSSAGRYVSRCKPLKEFMLSQDVEHERLFDLIQKMLEYDPAKRITLREALKHPFFDLLKSI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_004071

**ORF Size:** 1452 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\\_004071.4](#)

**RefSeq Size:** 1887 bp

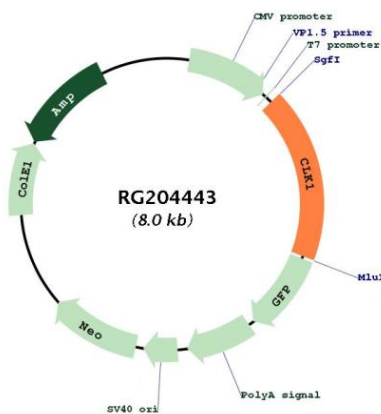
**RefSeq ORF:** 1455 bp

**Locus ID:** 1195

**UniProt ID:** [P49759](#)

<b>Cytogenetics:</b>	2q33.1
<b>Domains:</b>	pkinese, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	This gene encodes a member of the CDC2-like (or LAMMER) family of dual specificity protein kinases. In the nucleus, the encoded protein phosphorylates serine/arginine-rich proteins involved in pre-mRNA processing, releasing them into the nucleoplasm. The choice of splice sites during pre-mRNA processing may be regulated by the concentration of transacting factors, including serine/arginine rich proteins. Therefore, the encoded protein may play an indirect role in governing splice site selection. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]

### Product images:



Circular map for RG204443