

## Product datasheet for **MG217385**

### Clk1 (NM\_001042634) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clk1 (NM_001042634) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clk1
Synonyms:	STY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217385 representing NM\_001042634  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGACATTCAAAGAGAACTTACTGTCCTGACTGGGATGAAAGAGACTGGGATTATGGAACATGGAGAA  
 GCAGCAGCAGTCACAAAAGAAAGAGATCACATAGCAGCGCCCGTGAGCAAAAGCGCTGCAGGTACGA  
 TCACTCCAAAACGACAGACAGCTATTATCTGGAAGCAGATCCATAAATGAGAAAGCTTATCATAGTCGA  
 CGCTATGTTGATGAATACAGGAATGACTACATGGGCTACGAGCCAGGCATCCCTATGGAGAACCTGGAA  
 GCAGATACCAGATGCATAGTAGCAAGTCTCTGGTAGGAGTGGAAGAAGCAGTTACAAAAGTAAACACAG  
 GAGTCGCCACCACACTTCGCAGCACCATTACACGCGGAAGAGTACCGAAGGAAAAGATCGAGGAGTGTA  
 GAGGATGATGAGGAGGTACCTGATCTGTCAGAGTGGAGACGTACTAAGTGCAAGATATGAAATTGTTG  
 ATACTTTAGTGAAAGTGCTTTCCGAAAAGTGGTGAATGCATCGATCATAAAGTGGGAGGTAGACGTGT  
 AGCAGTAAAAATAGTTAAAAATGTGGATAGATACTGTGAAGCTGCTCAATCGGAAATACAAGTTTTGGAA  
 CACTTGAATACAACAGACCCCATAGTACTTCCGTTGTGTCCAGATGTTGGAGTGGTTTGGACATCGAG  
 GTCACATTTGCATTGTGTTTGAACCTTCTGGGGCTTAGTACTTATGATTTCAATTAAGGAAAACAGTTTTCT  
 GCCGTTTCGAATGGATCATATCAGGAAGATGGCATATCAAATATGCAAATCTGTAACCTTTTTGCATAGT  
 AATAAATTGACTCATACAGACTTGAAGCCTGAAAACATCTTATTTGTGAAGTCTGACTACACAGAGGCTT  
 ATAATCCCAAAATGAAACGTGATGAACGTAATAAGTAAATCCAGATATTAAGTGGTGGACTTTGGAG  
 TGCAACATATGATGATGAACACCACAGCACATTGGTATCTACAAGACATTATAGAGCACCAGGAAATTATT  
 TTAGCCCTCGGGTGGTCACAGCCATGTGATGTCTGGAGCATAGGATGATTCTTATCGAGTATTATCTTG  
 GATTTACAGTTTTTCCGACTCATGATAGCAGGAAACATTTAGCAATGATGAAAGGATTTCTGGACCATT  
 ACCAAAGCACATGATACAGAAAACCAGGAAACGCAGATATTTCCATCATGATCGATTAGATTGGGATGAA  
 CACAGTCTGCTGGCAGATATGTTTCTCGCGCTGTAACCTCTGAAGGAGTTTATGCTATCTCAGGATG  
 CCGAACATGAGCTTCTCTTTGACCTCATTGGGAAAATGTTGGAGTATGATCCCGCCAAAAGAATTACTCT  
 CAAAGAAGCCCTAAAGCATCCTTTCTTTTACCACTTAAAAAGCATAACG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217385 representing NM\_001042634  
 Red=Cloning site Green=Tags(s)

MRHskRtYcPDwDERDwDYGTWRSSSShKRRKRSsSAREqKRCRYDhSKTTDSYyLESRSINEKAYHSR  
 RYVDEYRNDYMGYEPGHPYGEPSRYQMhSSKSSGRSGRSSYKSHRSRHHTSQHhSHGKSHRRKRSRSV  
 EDDEEGHLICQSGDVLsARyEIVDTLGEgAFgKVVeCIDhKVGGRRVAVKIVKNVDryCEAAQSEIQVLE  
 HLNTTDPHSTFRcVQmLEWfEHRGHICIVfELLGLSTYDFIKENSFLPFRMDHIRKMAYQICKSVNfLHS  
 NKLTHTDLKpENILfVKSDyTEAYNPKMKRDERTIVNPDIKVVDFGSATYDDEHhSTLVSTRHYRAPEVI  
 LALGWSQPCDVWSIGCILIEYyLGFTVFPThDSREHLAMMERILGPLPKHMIQKTRKRRYFHhDRLDwDE  
 HSSAGRYVSRrCKPLKEfMLSQDAEHellFDLIGKMLEYDPAKRITLKEALKHPFFYPLKKHT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001042634

**ORF Size:** 1449 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.

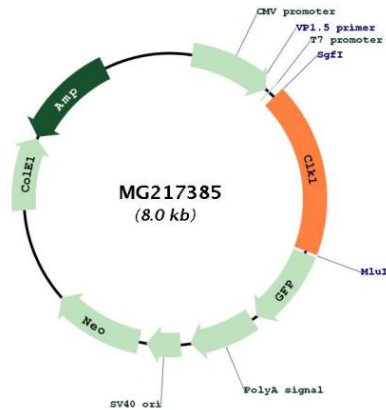
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001042634.2](#), [NP\\_001036099.1](#)  
**RefSeq Size:** 1830 bp  
**RefSeq ORF:** 1452 bp  
**Locus ID:** 12747  
**UniProt ID:** [P22518](#)  
**Cytogenetics:** 1 29.09 cM

**Gene Summary:** Dual specificity kinase acting on both serine/threonine and tyrosine-containing substrates. Phosphorylates serine- and arginine-rich (SR) proteins of the spliceosomal complex and may be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing. Phosphorylates: SRSF1, SRSF3 and PTPN1. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells and adenovirus E1A pre-mRNA. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG217385