

## Product datasheet for **MG207842**

### **Clk3 (BC085084) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Clk3 (BC085084) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clk3
Synonyms:	MGC36552
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207842 representing BC085084  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCATCACTGTAAGCGATACCGTTCCCCAGAGCCAGACCCATACCTGAGCTACCGCTGGAAGAGGAGGC  
 GGTCTTACAGTCGGGAGCATGAAGGTCGACTACGATACCCATCCCGAAGGGAGCCTCCCCACGGAGATC  
 ACGGTCCAGAAGCCATGATCGTATACCCTACCAGCGGAGGTACCGGGAACACCGTGACAGTGATACGTAT  
 CGGTGTGAAGAGCGGAGCCCATCTTTGGAGAGGACTGCTATGGGTCTTCACGTTCTCGACATCGGAGAC  
 GGTACAGAGAGGGCGCCGTACCGTACCCGCAAGCATGCCACCACTGTCAAAACGCCGTACCAGGTC  
 TTGTAGCAGTGCTTCTCGAGAAGCCAACAGAGCAGTAAGCGCAGCAGCCGGAGTGTGGAAGATGACAAG  
 GAGGGCCACCTGGTGTGCCGGATCGCGATTGGCTCCAAGAGCGATATGAGATCGTGGGGAACCTGGGTG  
 AAGGCACCTTTGGCAAGGTGGTGGAGTGTGGACCATGCCAGAGGGAAGTACAGGTTGCCCTGAAGAT  
 CATCCGTAATGTGGCAAGTATCGGAAGCTGCTCGTCTAGAAATTAATGTTCTCAAGAAAATCAAGGAG  
 AAAGACAAGGAAAATAAGTTCCTTTGTGTCTGATGTCTGACTGGTTCAACTTCCATGGTCATATGTGCA  
 TCGCCTTTGAGCTCCTGGCAAGAACACCTTTGAGTTCCTGAAGGAGAACAACCTCCAGCCTTACCCCT  
 ACCACATGTCCGGCAGATGGCCTACCAGCTCTGTATGCCCTTAGATTTCTACACGAGAACCAGCTGACC  
 CACACAGACTTGAAGCCAGAGAACATCTTGTGTTGTAATCTGAGTTTGAACCCCTTACAATGAGCACA  
 AGAGCTGCGAGGAGAAGTCAGTGAAGAACCAGCATCCGAGTGGCAGACTTTGGCAGTCCACGCTTTGA  
 CCATGAACATCACACCACATTGTGGCCACCCGTCCTACCAGCCACCTGAGGTGATCCTTGAGCTGGGC  
 TGGGCACAGCCCTGTGATGTCTGGAGTATCGGCTGCATTCTTTGAGTACTACCGTGGCTTTACACTCT  
 TCCAGCCATGAAAATAGAGAACAACCTTGGTTATGATGGAGAAGATTCTAGGACCCATCCCATCACACAT  
 GATCCACCGTACCAGGAAGCAGAAATATTTCTACAAGGGGGCCTGGTTTGGGATGAGAACAGCTCTGAT  
 GGGCGGTATGTGAAGGAGAACTGCAACCTCTGAAGAGTTACATGCTGCAGGACTCCCTGGAGCATGTGC  
 AGCTGTTTGACCTGATGAGGAGGATGTTAGAGTTCGACCCGCTCAGCGCATCACATTGGCAGAAGCCTT  
 GCTGCACCCCTTCTTTGCTGGCCTGACCCTGAGGAGCGGTCTTCCACAGCAGCCGTAACCCAGCAGA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207842 representing BC085084  
 Red=Cloning site Green=Tags(s)

MHHCKRYRSPEPDPLYLRWKRYSREHEGRLRYPSPREPPRRSRSHDRIPYQRRYREHRSDTY  
 RCEERSPSFGEDCYGSSRSRHRSSRERAPYRTRKHAHHCHKRRTRSCSSASSRSQSSKRSSRSVEDDK  
 EGHLCRIGDWLQERYEIVGNLGEFTGKVVVECLDHARGKSQVALKIIRNVGKYREARLEINVLKKIKE  
 KDKENKFLCVLMSDFNFHGHMCIAFELLGKNTFEFLKENNFQPYPLPHVRHMAYQLCHALRFLHENQLT  
 HTDLKPENILFVNSEFETLYNEHKSCEEKSVKNTSIRVADFGSATFDHEHHTTIVATRHYRPPVILELG  
 WAQPCDVWSIGCILFEYRGTFLFQTHENREHLVMEKILGPIPSHMIHRTRKQKYFYKGLVWDENSSD  
 GRVYKENCPLKSYMLQDSLEHVQLFDLMRRMLEFDPAQRITLAEALLHPFFAGLTPEERSFHSSRNPSR

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC085084

**ORF Size:** 1472 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:** [BC085084](#), [AAH85084](#)

**RefSeq Size:** 1778 bp

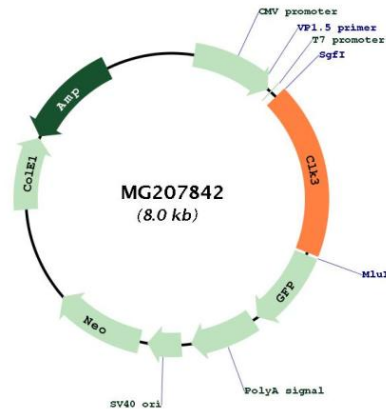
**RefSeq ORF:** 1472 bp

**Locus ID:** 102414

**Cytogenetics:** 9 B

**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. May be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing and can cause redistribution of SR proteins from speckles to a diffuse nucleoplasmic distribution. Phosphorylates SRSF1 and SRSF3. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.[UniProtKB/Swiss-Prot Function]

**Product images:**

Circular map for MG207842