

## Product datasheet for MR204207

### Clk4 (BC002220) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clk4 (BC002220) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clk4
Synonyms:	A1987988; C85119
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204207 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGGCTTACATGTAGCAGTGAAAATTGTAAAAATGTAGGCCGTTACCGGGAGGCAGCTCGTTCTG  
AAATCCAAGTATTGGAGCACTTGAACAGCACTGACCCCAACAGTGTCTCCGATGCGTCCAGATGCTAGA  
GTGGTTTGATCATCATGGTCATGTTTGTATTGTGTTGAGCTGCTGGGACTTAGTACCTATGATTTTATT  
AAAGAAAATAGTTTCTGCCATTTCAAATTGATCACATCAGGCAAATGGCTTATCAGATCTGCCAGTCTA  
TAAATTTTTTACATCATAATAAATTAACACACACGGACCTAAAACCTGAAAATTTTTTTTGTGAAGTC  
TGAATATGTAGTCAAATACAATCTAAAATGAAACGAGATGAGCGCACATTGAAAAACACAGATATCAAA  
GTTGTTGATTTTGGAAAGTGAACATATGACGACGAACATCATAGTACTTTGGTGTCCACAAGGCACTACA  
GGGCTCCAGAGGTCATTTTGGCTCTAGGTTGGTCTCAGCCTTGTGATGTTTGGAGCATAGGCTGCATTCT  
TATTGAGTACTACCTTGGGTTTACAGTCTTTCAGACCCACGATAGTAAAGAGCACCTGGCAATGATGGAG  
CGGATCTTAGGACCCATCCAGCACATATGATCCAGAAGACAAGGAAACGCAAGTATTTCCACCATAACC  
AGCTAGATTGGGACGAGCATAGTTCAGCTGGGAGATATGTTAGGAGACGCTGCAAGCCGTTAAAGGAATT  
TATGCTGTGTATGACGAAGAGCATGAGAAGCTGTTTACCTGGTTCGAAGAATGTTGGAGTATGACCCA  
CGGAGAAGGATCACCTTGGATGAAGCATTGCAGCACCCCTTTCTTTGACTTATTA AAAAAGGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204207 protein sequence  
Red=Cloning site Green=Tags(s)

MDGLHVAVKIVKNVGRYREARSEIQVLEHLNSTDPNSVFRVQMLEWFDHGHVCIVFELLGLSTYDFI  
 KENSFLPFQIDHIRQMAYQICQSFNHLHNKLTHTDLKPENILFKVSDYVVKYNSKMKRDERTLKNTDIK  
 VVDFGSATYDDEHHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEYYLGFTVFQTHDSKEHLAMME  
 RILGPIPAHMIQKTRKRKYFHHNQLDWDDEHSSAGRYVRRRCKPLKEFMLCHDEEHEKLFDLVRRMLEYDP  
 ARRITLDEALQHPFFDLLKRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC002220

**ORF Size:** 903 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:** [BC002220](#), [AAH02220](#)

**RefSeq Size:** 1445 bp

**RefSeq ORF:** 905 bp

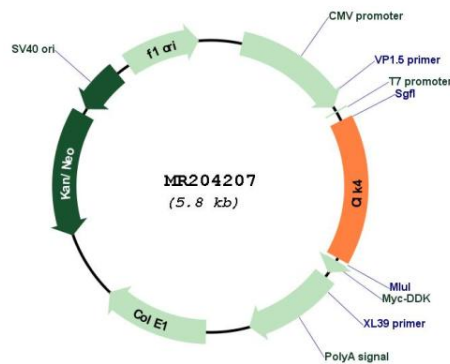
**Locus ID:** 12750

**Cytogenetics:** 11 B1.3

**MW:** 35.8 kDa

**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 and SRSF3. Required for the regulation of alternative splicing of MAPT/TAU. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR204207