

Product datasheet for **MR207703**

Clk4 (NM_007714) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clk4 (NM_007714) 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)



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ORF Nucleotide Sequence:

>MR207703 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGCATTCCAAACGAACTACTGTCTGATTGGGATAGTAGAAAGCTGGGGCCATGAAAGCTACA
 GTGGAAGTCACAAACGCAAGAGAAGGTCTCACAGCAGTACTCAGGAGAACAGGCACTGTAACCACATCA
 TCAGTTTAAAGACTCGGATTGTCACTATTTAGAAGCAAGATGCTTGAATGAGAGAGATTATCGGGACCGG
 AGATACATTGATGAATACAGAAATGACTACTGCGAAGGATATGTTCCAAGACATTACCATAGAGACGTTG
 AAAGCACTTACCGGATCCATTGCAGTAAATCCTCAGTCAGGAGCAGGAGAAGCAGCCCTAAGAGAAAGCG
 TAATAGACCTGTGCAAGTCATCAGTCGCATTGCAAGAGCCACCGAAGGAAAAGATCCAGGAGTATAGAG
 GATGATGAGGAGGTCACCTGATCTGTCAAAGTGGAGACGTTCTAAGAGCAAGATATGAAATCGTGGACA
 CTTTAGGTGAAGGAGCCTTTGGCAAAGTGTAGAGTGCATTGATCACGGCATGGATGGCTTACATGTAGC
 AGTGAAAATTGAAAAATGTAGCCGTTACCGGAGGCAGCTCGTTCTGAAATCCAAGTATTGGAGCAC
 TTGAACAGCACTGACCCCAACAGTGTCTCCGATGCGTCCAGATGCTAGAGTGGTTTGATCATCATGGTC
 ATGTTTGTATTGTTTGTGAGCTGCTGGGACTTAGTACCTATGATTTTATTAAGAAAATAGTTTTCTGCC
 ATTTCAAATTGATCACATCAGGCAAATGGCTTATCAGATCTGCCAGTCTATAAATTTTTTACATCATAAT
 AAATTAACACACACCGGACCTAAAACCTGAAAATATTTTATTTGTGAAGTCTGACTATGTAGTCAAATACA
 ATTCTAAAATGAAACGAGATGAGCGCACATTGAAAACACAGATATCAAAGTTGTTGATTTTGAAGTGC
 AACATATGACGACGAACATCATAGTACTTTGGTGTCCACAAGGCACTACAGGGCTCCAGAGGTCAATTTG
 GCTCTAGGTTGGTCTCAGCCTTGTGATGTTGGAGCATAGGCTGCATTCTATTGAGTACTACCTGGGT
 TCACAGCTTTTCAGACCCACGATAGTAAAGAGCACCTGGCAATGATGGAGCGGATCTTAGGACCCATCCC
 AGCACATATGATCCAGAAGACAAGGAAACGCAAGTATTTCCACCATAACCAGCTAGATTGGGACGAGCAT
 AGTTCAGCTGGGAGATATGTTAGGAGACCTGCAAGCCGTTAAAGGAATTTATGCTGTGTCATGACGAAG
 AGCATGAGAAGCTGTTTGACCTGGTTCGAAGAATGTTGGAGTATGACCCAGCGAGAAGGATCACCTTGA
 TGAAGCATTGCAGCACCCCTTTCTTTGACTTATTAAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207703 protein sequence
 Red=Cloning site Green=Tags(s)

MRHSKRTHCPDWSRESWGHEYSYSGSHKRKRSHSSTQENRHCKPHHQFKDSDCHYLEARCLNERDYRDR
 RYIDEYRNDYCEGYVPRHYHRDVESTYRIHCSKSSVRSRRSSPKRKRNRPCASHQSHSKSHRRKRSRSIE
 DDEEGLICQSGDVLRYEIVDTLGEFAGKVVCEIDHGMGLHVAVKIVKNVGRYREARSEIQVLEH
 LNSTDPNVSFRCVQMLEWFDHGHVCI VFELLGLSTYDFIKENSFLPFQIDHIRQMAYQICQSINFLHHN
 KLTHDLKPENILFVKSDYVVKYNSKMKRDERTLNKNTDIKVVDFGSATYDDEHSTLVSTRHYRAPEVIL
 ALGWSQPCDVWSIGCILIEYYLGFVTFQTHDSKEHLAMMERILGPIPAHMIQKTRKRKYFHHNQLDWEH
 SSAGRYVRRRCKPLKEFMLCHDEEHEKLFDLVRRMLEYDPARRITLDEALQHPFFDLLKRV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_007714

ORF Size: 1446 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_007714.6](#)
RefSeq Size: 1892 bp

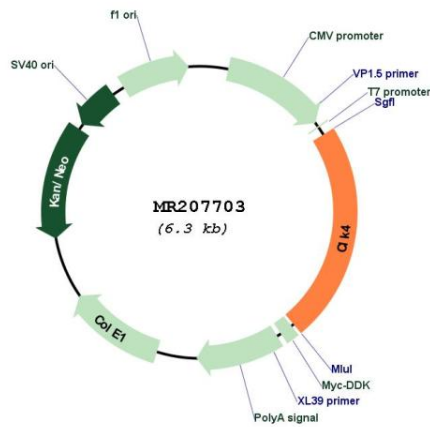
RefSeq ORF: 1446 bp

Locus ID: 12750

UniProt ID: [O35493](#)

Cytogenetics:	11 B1.3
MW:	57.3 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 MR207703