

Product datasheet for **MR220586**

Clk3 (NM_007713) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clk3 (NM_007713) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clk3
Synonyms:	A1256811
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220586 representing NM_007713
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTCTCTCCGCGCGCAGGAAGAGGCTGGCGAGCACAGCTGGGCCGCGGCCGGGAAGCGGCCCA
 GCCTGGCAGTCCGGTGGGTTCTCCTTTAGGCCAGAGCCGTCTCAGACCGTGGTCGCGCACCGATGCG
 GCCTCGGGGGCTACGTGCAGCACACAGGAGAGGGGAGGCCGCGGCCGAGGCTGCTCCCGGGACCT
 CCGGGAAGAGACCTCCACCGATGTCGCCCGGACCTGGCGGGGAGGCCAGTCCCCAGAGTCTGCGAGT
 TCGGGGCTAGAGCGGTACGGCTCTGGGCCGGTTCGAGCCGGGCGCCGACGGTGCCTCACGCGAGGG
 GGCGGTGCTGCCACGGGCGGAGGCCAGAGCCGGAAGCGGAAGAGGCGCTCGGAGTGGGGAGTGGGCCTA
 GCCGACGGGAGCCTGGGAGACGATGCATCACTGTAAGCGATACCGTCCCCAGAGCCAGACCCATAACC
 TGAGCTACCGCTGGAAGAGGAGGCGGTCTTACAGTCGGGAGCATGAAGGTCGACTACGATACCCATCCCG
 AAGGGAGCCTCCCCACGGAGATCACGGTCCAGAAGCCATGATCGTATACCCTACCAGCGGAGGTACCGG
 GAACACCGTGACAGTGATACGTATCGGTGTAAGAGCGGAGCCATCTTTTGAGAGGAGACTGCTATGGGT
 CTTACGTTCTCGACATCGGAGACGGTACGAGAGAGGGCGCCGTACCGTACCCGCAAGCATGCCACCA
 CTGTACAAAACGCGTACCAGGTCTTGTAGCAGTGCTTCTCGAGAAGCCAACAGAGCAGTAAGCGCAGC
 AGCCGGAGTGTGGAAGATGACAAGGAGGGCCACCTGGTGTGCCGGATCGGCGATTGGCTCCAAGAGCGAT
 ATGAGATCGTGGGAACTGGGTGAAGGCACCTTTGGCAAGTGGTGGAGTGTGGACCATGCCAGAGG
 GAAGTCACAGGTTGCCCTGAAGATCATCCGTAATGTGGCAAGTATCGGGAAGCTGCTCGTCTAGAAATT
 AATGTTCTCAAGAAAATCAAGGAGAAAGACAAGAAAATAAGTTCCTTTGTGCTGATGTCTGACTGGT
 TCAACTTCCATGGTCATATGTGCATCGCCTTTGAGCTCCTGGCAAGAACACCTTTGAGTTCCTGAAGGA
 GAACAACCTCCAGCCTTACCCCTACCACATGTCCGGCACATGGCCTACCAGCTCTGTCATGCCCTTAGA
 TTTCTACACGAGAACCAGCTGACCCACACAGACTTGAAGCCAGAGAACATCTTGTGTTGTAATTCTGAGT
 TTGAAACCCTCTACAATGAGCACAAGAGCTGCGAGGAGAAGTCAAGTGAAGAACACCAGCATCCGAGTGGC
 AGACTTTGGCAGTGCCACGTTTGACCATGAACATCACACCACCTTGTGGCCACCCGTCCTACCGCCCA
 CCTGAGGTGATCCTTGAGCTGGGCTGGGCACAGCCCTGTGATGTCTGGAGTATCGGCTGCATTCTCTTTG
 AGTACTACCGTGGCTTTACTCTTCCAGACCCATGAAAATAGAGAACACTTGGTTATGATGGAGAAGAT
 TCTAGGACCCATCCCATCACACATGATCCACCGTACCAGGAAGCAGAAAATATTTCTACAAAGGGGCGCTG
 GTTTGGGATGAGAACAGCTCTGATGGGCGGTATGTGAAGGAGAACTGCAAACCTCTGAAGAGTTACATGC
 TGCAGGACTCCCTGGAGCATGTGCAGCTGTTTACCTGATGAGGAGGATGTTAGAGTTCCACCCTGCTCA
 GCGCATCACATTGGCAGAAGCCTTGCTGCACCCCTTCTTTGCTGGCTGACCCCTGAGGAGCGGTCTCTT
 CACAGCAGCCGTAACCCAGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220586 representing NM_007713
 Red=Cloning site Green=Tags(s)

MPVL SARRKRLASTAGPRRGSGPSLAVRWVPLGPEPSSDRGRAPMRPRGPTCSTTRRGAGRPRLLPGP
 PGRDLHRCRPDPGGAGQSPRVCEFGARAVRPLGRVEPGPPTAASREGAVLPRAEARAGSGRGARSGEWGL
 AAAGAWETMHHCKRYRSPEPDYLSYRWKRRRSYSREHEGRLRYP SRREPPRRRSRSHDRIPYQRRYR
 EHRSDTYRCEERSPSFGEDCYGSSRSRHRRRSRERAPYRTRKHAHHCHKRRTRSCSSASSRSQQSSKRS
 SRSVEDDKEGHLVCRIGDWLQERYEIVGNL GEGTFGKVVECLDHARGKSQVALKIIRNVGKYREAAARLEI
 NVLKKIKEKDKENKFLCVLMSDFNFHGHMCIAFELLGKNTFELKENNFQPYPLPHVRHMAYQLCHALR
 FLHENQLTHTDLKPENILFVNSEFETLYNEHKSCEEKSVKNTSIRVADFGSATFDHEHHTTIVATRHYP
 PEVILELGWAQPCDVWSIGCILFEYYRGFTLFQTHENREHLVMMEKILGP I PSHMIHRTRKQKYFYKGLL
 VWDENSSDGRYVKENCKPLKSYMLQDSLEHVQLFDLMRRMLEFDPAQRITLAEALLHPFFAGLTPEERSF
 HSSRNPSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_007713

ORF Size: 1914 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_007713.4](#), [NP_031739.3](#)

RefSeq Size: 2494 bp

RefSeq ORF: 1917 bp

Locus ID: 102414

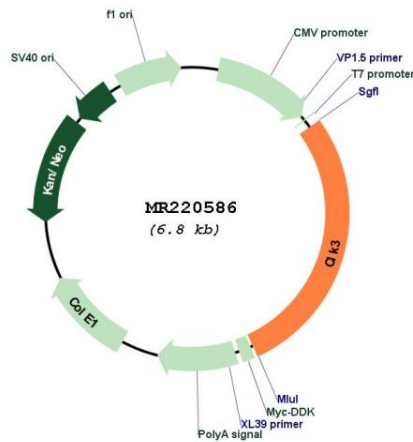
UniProt ID: [O35492](#)

Cytogenetics: 9 B

MW: 74.2 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. 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 MR220586