

Product datasheet for **MC205713**

Clk2 (NM_007712) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clk2 (NM_007712) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clk2
Synonyms:	AU041688
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC015080
 CCACGCGTCCGGCGGCGGCGGAGCGGAGAGGCCAGAGCCGGAGACCGAGCTGGGATCGGGCCCCGGGCGG
 GGGCGGTGCGAGAGGCGCCGAGCGGATCCTGGGGCGGGGACGGAGCCCGGGCGGGGACTGGAGCAG
 AGCCCCGGAACGGGGCGGGAGGTCCCAGGGCCCCGGGTTGGGGGTGGAACCGCACTTCGTCCGCCGGG
 GGTGCCGGGACTCCGGCCGAGTCCGCCGCCATCACGACTTCTGTGGACAAGCGCACGGGCCCTCGC
 CGCCAGAACGATGCCCCATCCCCGAAGGTACCATTCTCAGAGCGAGGTAGCCGGGGGAGTTACCACGAA
 CACTATCGGAGCCGAAAGCATAAGCGAAGAAGAAGTCCGCTCCTGGTCAAGTAGCAGTGACCGGACAAGGC
 GGCGGGGAGGGAGGACAGCTACCACGTTCCGGTCCCGAAGCTATGATGACCATTCTGCCGATCGGGCGGCT
 GTACGATCGGCGGTACTGTGGCAGCTACAGGCGCAATGACTACAGCCGGGACAGAGGGGAGGCTTACTAC
 GACACAGACTTTCGGCAGTCTTGAATACCATCGAGAGAACAGCAGTTACCGAAGCCAGCGCAGCAGCC
 GAAGGAAACACAGAAGGCGGAGGAGACGGAGCCGGACATTACGCCGCTCATCTTCACACAGCAGCCGGAG
 AGCCAAGAGTGTAGAGGACGACGCTGAGGGCCACCTCATCTACCACGTCGGGGACTGGCTACAAGAGCGA
 TATGAAATGTAAAGCACCTTAGGAGAAGGGACCTTCGGCCGAGTTGTGCAGTGTGTGGACCATCGCAGGG
 GCGGAACACGAGTTGCCCTGAAGATCATTAAAGATGTGAAAAAGTACAAGGAAGCAGCCGACTAGAAAT
 CAACGTGCTGGAGAAAATCAATGAGAAAGATCCTGACAACAAGAACCTCTGTGTCCAGATGTTTGACTGG
 TTTGACTACCATGGCCACATGTGTATCTCTTTGAGCTTCTGGGCCTTAGCACCTTCGATTTCTCAAAG
 ACAAACTACCTGCCCTACCCCATCCACCAAGTGCGCCACATGGCCTTCCAGCTCTGCCAGGCCGTCAA
 GTTCTCCATGATAACAAGTTGACACATACGGACCTCAAACCTGAAAATATTCTGTTTGTGAATTCAGAC
 TACGAACCTACCTACAACCTAGAGAAGAAGCGAGATGAGCGCAGTGTAAGAGACAGCCGTGCGGGTGG
 TGGACTTCGGCAGTGCCACCTTTGACCATGAACACCATAGCACCATTGTCTCCACTCGCCATTACCGAGC
 CCCCAGGTGATCCTGGAGTTGGGCTGGTCACAGCCATGCGATGTATGGAGCATAGGCTGCATCATCTTT
 GAGTACTACGTTGGCTTACCCTCTTCCAGACCATGACAACAGAGAGCATCTAGCCATGATGAAAAGGA
 TCCTGGGTCCTGTCCTTCTCGGATGATCAGAAAGACAAGAAAACAGAAATATTTTTATCGGGGTCGCT
 GGATTGGGATGAGAACACCTCAGCCGGGCGCTACGTTCTGTGAGAACTGCAAACCTCTGCGGCGGTATCTG
 ACCTCAGAGGCAGAGGACCACCACAGCTCTTCGATCTGATTGAAAATATGCTAGAGTATGAGCCTGCTA
 AGCGGCTGACCTTAGGTGAAGCCCTTACGATCCTTTCTTCGCCTGCCTTCGGACTGAGCCACCCAAAC
 CAAGTTGTGGGACTCCAGTCGGGATATCAGTCGGTGACAATTAGGCTTTGGGCCCTGTCTTGTGTA
 GCAGTGGGTGTCATCCAGGACACTGGTGCTTTTTTATACAAAAGAACAGAGCCAGAATTGCCCTCTC
 TCCAGCCCCTGGCTCCTTGTACCTGTGAATATGTGGAATAGTGTAAATATGACAGAACTGTACCTATC
 GATTCAACCCCTGACATGTATATACTACTATTTACTCTCCCAACCTCATCTGCCCTCATGTGGAGGT
 GGATGGGGGGCAGAATGACGTAACCAGGTGGTGTCTACCCCATGTTTTATAAGGGATTTTGTACAGTCTT
 TGTGAAATAAAATGACATGCTTCATCTGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_007712

Insert Size: 1497 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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:	<u>BC015080</u> , <u>AAH15080</u>
RefSeq Size:	2143 bp
RefSeq ORF:	1497 bp
Locus ID:	12748
UniProt ID:	<u>O35491</u>
Cytogenetics:	3 F1
Gene Summary:	<p>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. Acts as a suppressor of hepatic gluconeogenesis and glucose output by repressing PPARGC1A transcriptional activity on gluconeogenic genes via its phosphorylation. Phosphorylates PPP2R5B thereby stimulating the assembly of PP2A phosphatase with the PPP2R5B-AKT1 complex leading to dephosphorylation of AKT1. Phosphorylates: PTPN1, SRSF1 and SRSF3. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>